M67001.AR.004705
MCB CAMP LEJEUNE
5090.3a

FINAL EXPANDED SOIL BACKGROUND STUDY REPORT PART 1 OF 2 MCB CAMP LEJEUNE NC

08/01/2011

CH2M HILL

Final

Expanded Soil Background Study Report

Marine Corps Base Camp Lejeune
Jacksonville, North Carolina

Contract Task Order 0094

August 2011

Prepared for

Department of the Navy
Naval Facilities Engineering Command
Mid-Atlantic Division

Under the

NAVFAC CLEAN 1000 Program
Contract N62470-08-D-1000

Prepared by

CH2MHILL

Raleigh, North Carolina

Contents

Acronyms and Abbreviations ..... **vii**

1 Introduction **1-1**
1.1 Objective and Approach 1-1
1.2 Report Organization 1-2

2 Background **2-1**
2.1 Regulatory Status 2-1
2.2 Land Use 2-1

3 Site Characteristics **3-1**
3.1 Physiography 3-1
3.2 Surficial Deposits 3-1
3.3 Subsurface Geology 3-1

4 Field Investigation **4-1**
4.1 Sampling Design and Rationale 4-1
4.2 Surface Soil Sampling 4-2
4.3 Subsurface Soil Sampling 4-2
4.4 Sample Management 4-3
4.4.1 Sample Designation 4-3
4.4.2 Quality Assurance/Quality Control Program 4-3
4.4.3 Analytical Program and Data Validation 4-3

5 Statistical Evaluation **5-1**
5.1 Analytical Results 5-1
5.1.1 PAH and Pesticide Results 5-1
5.1.2 Inorganics 5-2
5.2 Statistical Evaluation 5-3
5.2.1 Data Partitioning 5-3
5.2.2 Evaluation of Outliers 5-5
5.2.3 Calculation of Background Threshold Values 5-6

6 Use of Background Data **6-1**
6.1 Site Screening 6-1
6.2 Risk Assessment 6-1
6.3 Cleanup Action Levels 6-2

7 References **7-1**

Appendixes

A Boring Logs
B Laboratory Reports (CD only)
C Statistical Analysis Tables and Plots
D Response to Comments on the Draft Expanded Soil Background Study Report

Tables

3-1 Soil Associations
3-2 Soil Types

4-1 Sample Design and Rationale
4-2 Analytical Methods - Surface Soil
4-3 Analytical Methods - Subsurface Soil

5-1 Surface Soil Analytical Results - Undeveloped Areas
5-2 Subsurface Soil Analytical Results - Undeveloped Areas
5-3 Surface Soil Analytical Results - Developed Areas
5-4 Subsurface Soil Analytical Results - Developed Area
5-5 Grain Size Distribution - Surface Soil
5-6 Grain Size Distribution - Subsurface Soil

6-1 Statistical Summary of Surface Soil Data for Undeveloped Areas (Combined Soil Types)
6-2 Statistical Summary of Subsurface Soil Data for Undeveloped Areas (Combined Soil Types)
6-3 Statistical Summary of Surface Soil Data for Developed Areas (Combined Soil Types)
6-4 Statistical Summary of Subsurface Soil Data for Developed Areas (Combined Soil Types)
6-5 Statistical Summary of Surface Soil Data for Undeveloped Areas (Sand)
6-6 Statistical Summary of Surface Soil Data for Undeveloped Areas (Sand with Fines)
6-7 Statistical Summary of Subsurface Soil Data for Undeveloped Areas (Sand)
6-8 Statistical Summary of Subsurface Soil Data for Undeveloped Areas (Sand with Fines)
6-9 Statistical Summary of Surface Soil Data for Developed Areas (Sand)
6-10 Statistical Summary of Surface Soil Data for Developed Areas (Sand with Fines)
6-11 Statistical Summary of Subsurface Soil Data for Developed Areas (Sand)
6-12 Statistical Summary of Subsurface Soil Data for Developed Areas (Sand with Fines)

Figures

1-1 Base Map

2-1 Land Use

4-1 Sampling Locations – MCAS New River and Montford Point
4-2 Sampling Locations – Mainside, Paradise Point
4-3 Sampling Locations – MCAS New River, Devil Dog Area
4-4 Sampling Locations – Mainside, Hadnot Point Industrial Area
4-5 Sampling Locations – Mainside, Eastern Border
4-6 Sampling Locations – Rifle Range Area, North
4-7 Sampling Locations – Courthouse Bay, North
4-8 Sampling Locations – Mainside, Onslow Beach
4-9 Sampling Locations – Rifle Range Area, South
4-10 Sampling Locations – Courthouse Bay, South

Acronyms and Abbreviations

ASTM	American Society for Testing and Materials
Baker	Baker Environmental, Inc.
bgs	below ground surface
BTV	background threshold value
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLEAN	Comprehensive Long-term Environmental Action—Navy
CTO	Contract Task Order
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethene
DDT	dichlorodiphenyltrichloroethane
DPT	direct push technology
FFA	Federal Facilities Agreement
IQR	interquartile range
KM	Kaplan-Meier
MCAS	Marine Corps Air Station
MCB CamLej	Marine Corps Base Camp Lejeune
MLE	maximum likelihood estimate
NAVFAC	Naval Facilities Engineering Command
Navy	Department of the Navy
NCDENR	North Carolina Department of Environment and Natural Resources
PAH	polycyclic aromatic hydrocarbon
QA	quality assurance
QC	quality control
RCRA	Resource Conservation and Recovery Act
ROS	regression on order statistics
RSL	regional screening level
SCS	Soil Conservation Service
TAL	Target Analyte List
UFP- SAP	Uniform Federal Policy – Sampling and Analysis Plan
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency

UST	underground storage tank
UTL	upper tolerance limit
WRS	Wilcoxon Rank Sum

SECTION 1

Introduction

This report presents the findings of the Expanded Soil Background Study that evaluated background soil conditions within Marine Corps Base Camp Lejeune (MCB CamLej), Jacksonville, North Carolina (**Figure 1-1**). The information contained within this report supplements the Base Background Study conducted by Baker Environmental, Inc. (Baker) in 2001, and will be utilized to support environmental investigations and risk assessments at MCB CamLej.

This project was conducted by CH2M HILL under the Comprehensive Long-term Environmental Action—Navy (CLEAN) 1000 Program Contract N62470-08-D-1000, Contract Task Order (CTO) 0094 for submittal to Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic Division, MCB CamLej, the United States Environmental Protection Agency (USEPA), and the North Carolina Department of Environment and Natural Resources (NCDENR). Field activities were conducted in accordance with the *Uniform Federal Policy – Sampling and Analysis Plan (UFP-SAP) for the Expanded Soil and Groundwater Background Study* (CH2M HILL, 2010a) hereinafter referred to as the UFP-SAP. The groundwater field investigation portion of this study is ongoing and will be presented separately in 2011.

1.1 Objective and Approach

The soil samples collected during the initial Base Background Study (Baker, 2001) consisted of either fine sands or loams, and did not accurately represent the range and variability of the soil types found at MCB CamLej. Consequently, the objective of this study was to evaluate the chemical composition of a wider range of soil types, collected from both developed and undeveloped locations, which most closely represent conditions at MCB CamLej. The resultant data was used to calculate background threshold values (BTVs) for use in site-specific environmental investigations and risk assessments.

The technical approach employed during this study included:

- Review of Soil Conservation Service (SCS) mapping to identify the distribution of soil types at MCB CamLej
- Review of current and historical land use records to identify developed and undeveloped areas
- Review of regulatory records to identify potentially impacted areas such as former ranges and waste disposal sites
- Selection of sampling locations that would most accurately represent the range and variability of the chemical composition of the soil types present at MCB CamLej
- Collection of 60 surface soil samples and 51 subsurface soil samples

- Laboratory analysis of soil samples for anthropogenic chemicals (e.g., polycyclic aromatic hydrocarbons [PAHs] and pesticides), naturally occurring elements, and grain size distribution
- Statistical analysis of the resulting laboratory analytical data

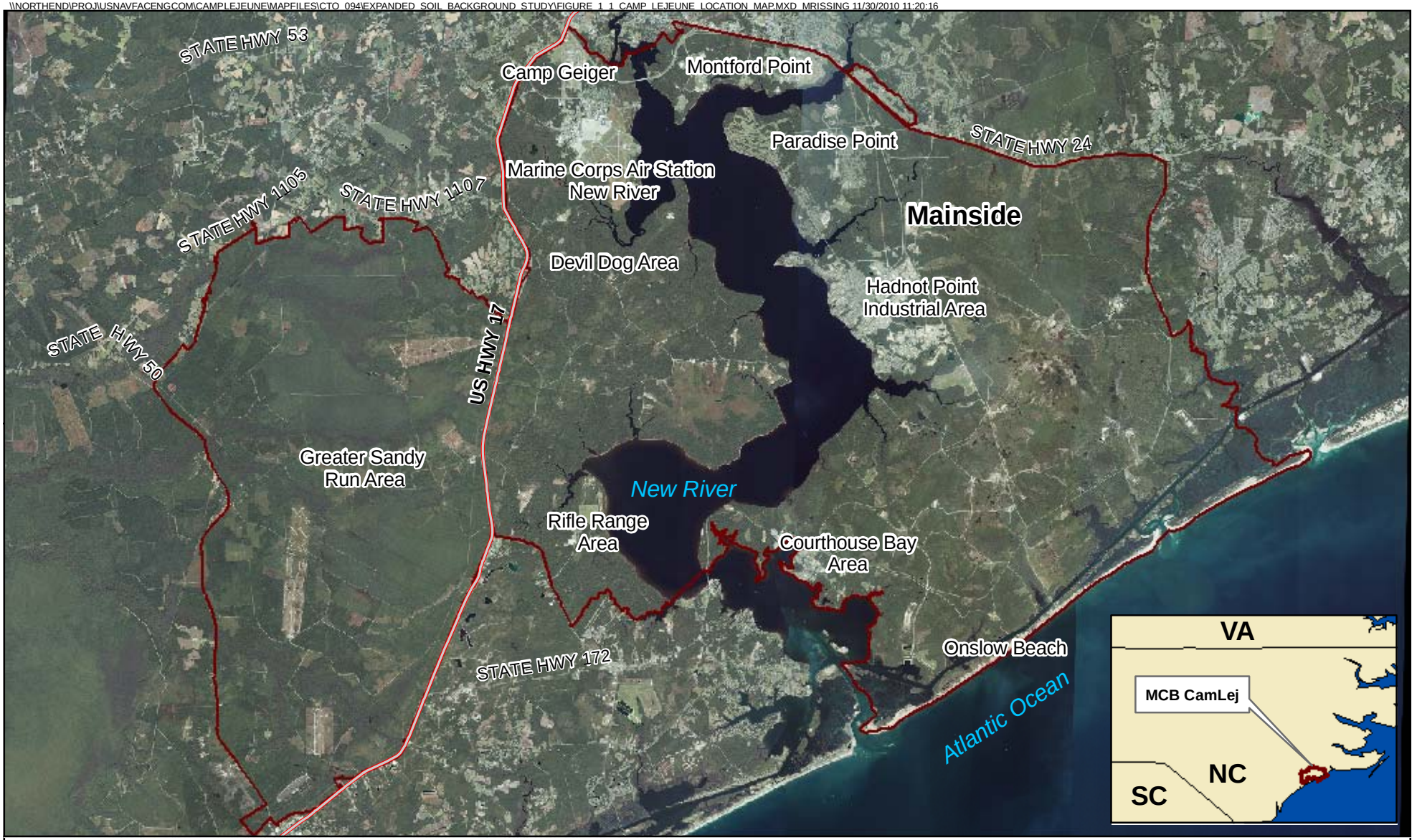
1.2 Report Organization

The Summary report comprises the following sections:

- Section 1 - Introduction
- Section 2 – Background
- Section 3 – Site Characteristics
- Section 4 – Field Investigation
- Section 5 – Statistical Evaluation
- Section 6 – Use of Background Data
- Section 7 – References

Figures and tables are provided at the end of each respective section and appendixes are provided at the end of this report.

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE_1_1_CAMP_LEJEUNE_LOCATION_MAP.MXD MRISSING 11/30/2010 11:20:16



Legend

- Highways
- Installation Boundary

N

0 7,700 15,400 30,800 Feet

1 inch = 15,400 feet

Figure 1-1
Base Map
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

SECTION 2

Background

MCB CamLej encompasses approximately 156,000 acres of land in Onslow County, North Carolina, adjacent to the southern boundary of the City of Jacksonville. Jacksonville is the largest city near MCB CamLej and contains approximately half of the county's total population. Since 1990, much of the MCB CamLej complex has been part of Jacksonville. The remaining areas adjacent to the Base are generally rural. The Base is bordered by the Atlantic Ocean to the south, U.S. Highway 17 to the west, State Route 24 to the north, the town of Hubert, North Carolina, to the east, and is bisected by the New River, which flows into the Atlantic Ocean in a southeasterly direction.

2.1 Regulatory Status

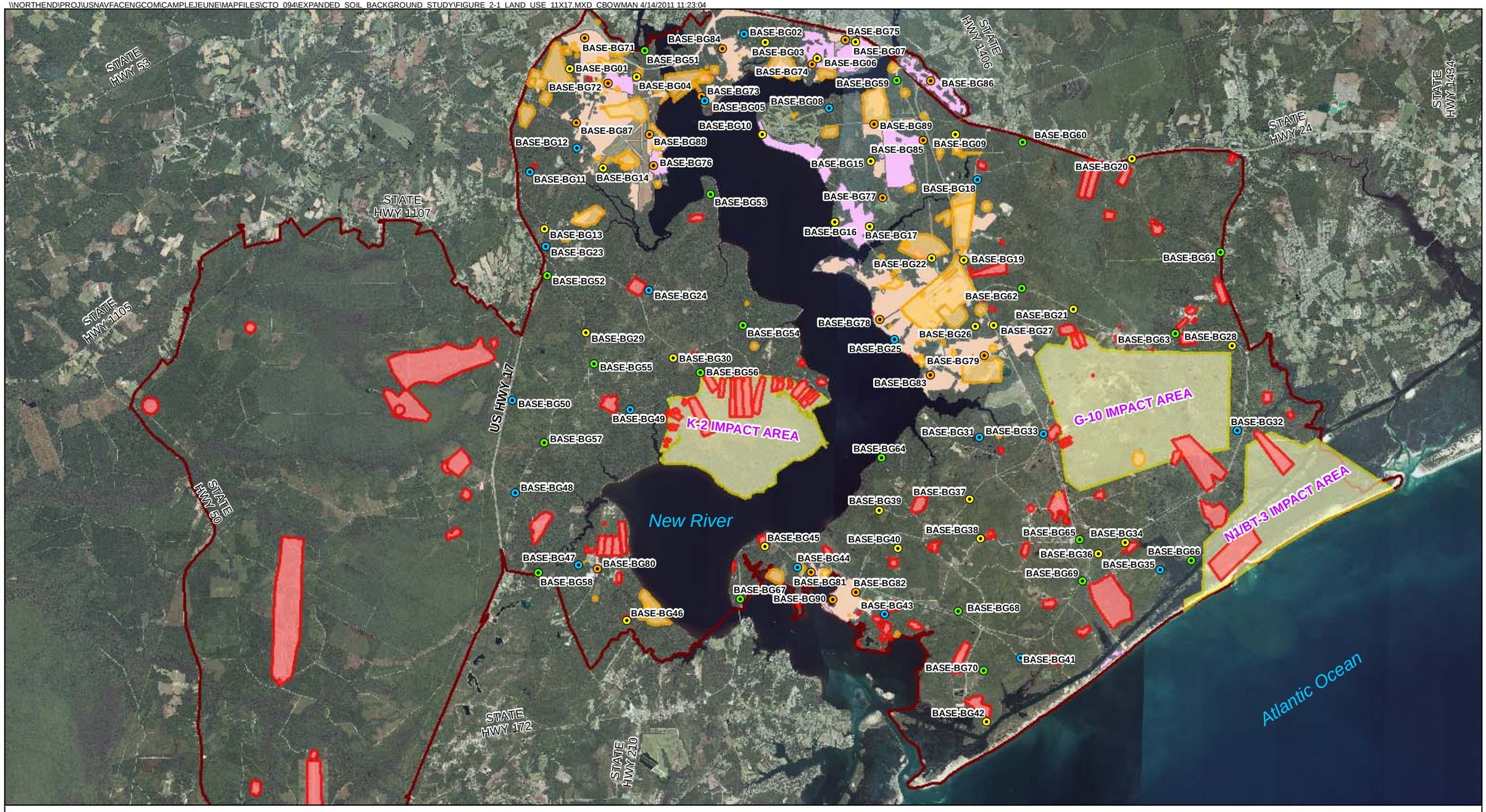
MCB CamLej was placed on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List effective November 4, 1989. Subsequent to this listing, the USEPA Region 4, North Carolina Department of the Environment and Natural Resources (NCDENR), the Department of the Navy (Navy), and the Marine Corps entered into a Federal Facilities Agreement (FFA) for MCB CamLej. The primary purpose of the FFA was to ensure that environmental impacts associated with past and present activities at the Base are thoroughly investigated and that appropriate CERCLA response and Resource Conservation and Recovery Act (RCRA) corrective action alternatives are developed and implemented, as necessary, to protect public health and welfare and the environment.

2.2 Land Use

The Base's mission is to maintain combat-ready units for expeditionary deployment. The majority of the Base is used for live fire ranges and training areas. Roughly 7,000 acres have been developed and consist of residential and industrial land use (**Figure 2-1**). The primary residential areas are located on Paradise Point and Montford Point. The main industrial areas are located in Marine Corps Air Station (MCAS) New River, Camp Geiger, Courthouse Bay, Rifle Range and Hadnot Point Industrial Area.

In the more than 60 years of operation since the Base was commissioned in 1942, a variety of wastes have been generated. Several areas of the Base are currently under investigation or remediation to address environmental impacts related to historical waste management practices or range activities. These sites are managed under CERCLA, RCRA, and the Underground Storage Tank (UST) Program and were specifically avoided during the field sampling activities conducted during this study. Detailed information regarding the status of the environmental cleanup programs can be found in the Site Management Plans (CH2M HILL, 2009; CH2M HILL, 2010b) and are updated annually.

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE_2-1_LAND_USE_11X17.MXD CBOWMAN 4/14/2011 11:23:04



Legend

- 2000/2010 Undeveloped Area Soil Sample
- 2000 Undeveloped Area Soil Sample
- 2010 Developed Area Soil Sample
- 2010 Undeveloped Area Soil Sample
- Environmental Restoration Areas
- Range Areas
- Impact Area
- Developed - Non Residential
- Developed - Residential
- Installation Boundary

N

0 4,750 9,500 19,000 Feet

1 inch = 9,500 feet

Figure 2-1
Land Use
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

SECTION 3

Site Characteristics

3.1 Physiography

MCB CamLej lies within the outer part of the Atlantic Coastal Plain Physiographic Province in North Carolina. This physiographic province stretches from Georgia to Long Island, New York. The physiography of the area is typical of the Atlantic Coastal Plain, with stepped terraces consisting of wide, gently eastward-sloping plains separated by linear, steeper, northward and eastward-facing scarps. Low elevations and relatively low relief characterize the topography within the Base. The ground surface elevations range from sea level to approximately 70 feet above mean sea level, with average elevations ranging from 20 to 40 feet.

3.2 Surficial Deposits

The initial Base Background Study (Baker, 2001) provides a detailed description of surface soil associations at MCB CamLej, based on the *Soil Survey for MCB, Camp Lejeune, North Carolina* (SCS, 1984) and the updated soil survey report for Onslow County in 1992 (USDA, 1992). A soil association is a landscape that exhibits a distinctive pattern based on soil types, drainage, and relief. There are six soil associations present at MCB CamLej (**Table 3-1**). Each soil association is made of several different soil types in varying percentages, shown on **Table 3-1**. The area of MCB CamLej covered by each soil type is provided in **Table 3-2**. Approximately 53 percent of the surface soils at MCB CamLej are classified as fine sands, the remaining 47 percent are a mixture of loamy fine sands, fine sandy loams, silty clayey loams, and a small percentage of mucks. Loams are generally composed of less than 52 percent sand and a varying mixture of silts and clays, muck is a dark, finely layered, and well decomposed organic soil (Baker, 2001).

3.3 Subsurface Geology

MCB CamLej is underlain by an eastward thickening wedge of marine and non-marine sediments ranging in age from early Cretaceous to Holocene. These sediments extend from the Fall Line (western boundary of Atlantic Coastal Plain Physiographic Province) and dip to the southeast towards the coast. Along the coastline, several thousand feet of interlayered and unconsolidated sediments consisting of gravel, sand, silt, clay deposits, calcareous clays, shell beds, sandstone, and limestone mantle the pre-Cretaceous crystalline basement rock. Minor amounts of detrital carbonate shells and secondary minerals such as glauconite, siderite, and chlorite often distinguish these sedimentary units.

Table 3-1

Soil Associations

Expanded Soil Background Study

MCB CamLej, North Carolina

Soil Association[1]	Soil Types	Approximate Percentage Within Soil Association	Location on Base	Underlying Soils[2]
Baymeade-Foreston-Stallings	Baymeade (BaB, BmB)	35	Uplands south of MCAS New River to Rifle Range, Montford Point, Mainside north of French Creek, Onslow Beach	Fine Sandy Loam
	Foreston (Fo)	15		Fine Sandy Loam
	Stallings (St)	10		Fine Sandy Loam
	Other	40		Varies
Leon-Murville-Kureb	Leon (Ln)	53	Areas of higher elevation on Mainside south of French Creek, north of Courthouse Bay, north of Rifle Range Area.	Fine Sandy Loam
	Murville (Mu)	26		Fine Sandy Loam
	Kureb (KuB)	15		Fine Sand
	Other	6		Varies
Muckalee-Dorovan	Muckalee (Mk)	54	Along most creeks at MCB CamLej.	Sandy Loam/Loam
	Dorovan (Do)	6		
	Other	40		Varies
Wando-Pactolus	Wando (Wo)	53	Shores near Courthouse Bay and along the Intracoastal Waterway.	Fine Sand
	Pactolus (Pa)	39		
	Other	8		Varies
Norfolk-Goldsboro-Onslow	Norfolk (NoA, NoB)	24	Along the southeast shore of New River west of Courthouse Bay and between Southeast Creek, Edwards Creek and US Route 17 near MCAS New River.	Sandy Clay Loam
	Goldsboro (GoA)	19		Sandy Clay Loam
	Onslow (On)	15		Sandy Clay Loam
	Other	42		Varies
Bohicket-Newhan	Bohicket (Bo)	55	Tidal marshes	
	Newhan (NeE)	20		
	Other	25		Varies

[1]Table adapted from Appendix A (Baker, 2001)

[2]Where available

TABLE 3-2

Soil Types

Expanded Soil Background Study

MCB CamLej, North Carolina

Soil Type Name	Soil Type Identification	Soil Description	Area (acres)	Percentage of MCB CamLej
Alpin	AnB	fine sand	900	0.72
Baymeade	BaB	fine sand	18162	14.56
Baymeade	BmB	fine sand	3870	3.1
Bohicket	Bo	silty clay loam	2900	2.33
Corolla	Ca	fine sand	11	0.01
Craven	Co	fine sandy loam	177	0.14
Craven	CrB	fine sandy loam	266	0.21
Croatan	CrC	muck	251	0.2
Carteret	Ct	fine sand	8507	6.82
Dorovan	Da	muck	1021	0.82
Duckston	Dc	fine sand	237	0.19
Foreston	FoA	loamy fine sand	5072	4.07
Goldsboro	GoA	fine sandy loam	460	0.37
Goldsboro	GpB	fine sandy loam	1507	1.21
Kureb	KuB	fine sand	5136	4.12
Longshoal	La	muck	5	0.004
Lenoir	Le	loam	111	0.09
Leon	Ln	fine sand	14233	11.41
Lynchburg	Ly	fine sandy loam	152	0.12
Marvyn	MaC	loamy fine sand	9389	7.53
Muckalee	Mk	loam	8704	6.98
Murville	Mu	fine sand	7826	6.28
Newhan	NeE	fine sand	623	0.5
Newhan	NfC	fine sand	187	0.15
Newhan-Corolla	NnE	fine sand	471	0.38
Norfolk	NoA	loamy fine sand	81	0.06
Norfolk	NoB	loamy fine sand	1152	0.92
Onslow	On	loamy fine sand	6379	5.12
Pactolus	Pa	fine sand	1644	1.32
Pantego	Pn	mucky fine sand	292	0.23
Pits	Pt	sand	167	0.13
Rains	Ra	fine sandy loam	815	0.65
Stallings	St	loamy fine sand	3780	3.03
Torhunta	To	fine sandy loam	7189	5.76
Udorthents	Ud	loamy	49	0.04
Urban land	Ur	Not Applicable	892	0.72
Wando	WaB	fine sand	4509	3.62
Woodington	Wo	loamy fine sand	7446	5.97
Yaupon	YaA	fine sandy loam	124	0.1

Source: (USDA, 2009)

SECTION 4

Field Investigation

The field sampling activities were conducted in accordance with the approved UFP-SAP (CH2M HILL, 2010a).

4.1 Sampling Design and Rationale

The initial Base Background Study (Baker, 2001) only focused on metals in undeveloped areas of MCB CamLej. In addition, the soil samples collected consisted of either fine sands or loams, and did not accurately represent the range and variability of the soil types found within MCB CamLej. The Expanded Soil Background Study was designed to provide additional data for metals in undeveloped areas that when combined with the previous background data set would more accurately represent the range and variability of site conditions present at MCB CamLej. The Expanded Soil Background Study was also designed to:

- Provide data for anthropogenic chemicals (PAHs and pesticides). PAHs and pesticides are most likely present at MCB CamLej as a result of atmospheric deposition (PAHs) or intentional application (pesticides). PAHs are present in the atmosphere from various anthropogenic or natural processes including: vehicle emissions, forest fires, or emissions from point sources such as power plants or factories.
- Provide data for speciated chromium in order to understand the ratio of hexavalent chromium to trivalent chromium in background soils. This is necessary because USEPA no longer has a regional screening level (RSL) for total chromium; therefore, total chromium data for sites are currently being compared to the hexavalent chromium RSL to be conservative.
- Provide data for developed areas (e.g., residential areas) since background concentrations in developed areas most likely vary from background concentrations in undeveloped areas.

A summary of the sample design and rationale is provided in **Table 4-1**. Sample locations were selected to ensure a statistically adequate number of samples in each potential soil type (sands, clays, and silts) and location (undeveloped and developed) in order to run a robust statistical analysis. The locations and surface SCS soil types are shown on **Figures 4-1** through **4-10** and described below:

- **Soil Samples in Undeveloped Areas for Metals and Grain Size Analysis—** A total of 20 surface soil samples and 11 subsurface soil samples were collected from finer grained soils at new locations to provide a more even distribution of soil types for the background data set.

- **Soil Samples in Undeveloped Areas for Speciated Chromium, PAH, Pesticide, and Grain Size Analysis—** A total of 40 surface soil samples and 31 subsurface soil samples were collected from locations that would provide an even distribution of soil types for the background data set.
- **Soil Samples in Developed Areas for Metals, Speciated Chromium, PAHs, Pesticide, and Grain Size Analysis—** A total of 20 surface soil and 20 subsurface soil samples were collected from locations that would provide an even distribution of soil types for the background data set.

The technical approach utilized to select the sample locations included:

- Review of the SCS mapping to identify the distribution of soil types within MCB CamLej
- Review of current and historical land use records to identify developed and undeveloped areas
- Review of regulatory records to identify potentially impacted areas such as former ranges and waste disposal sites.
- Field assessment of sample locations including estimating the age of nearby trees and buildings to determine whether the soil had been disturbed or not.

4.2 Surface Soil Sampling

A total of 60 surface soil samples were collected from an interval of 0–1 foot below ground surface (bgs) using a stainless steel hand auger. Forty of the samples were collected in undeveloped areas; 20 samples from locations used during the Baker study, and 20 samples from new locations. Twenty samples were collected in developed areas of the Base. Soil cuttings from each sample location were placed in a stainless steel bowl and thoroughly mixed. The resulting composite sample was placed in laboratory-supplied containers, packed in an iced cooler, and shipped to CompuChem for analysis, as described in **Table 4-1**. The hand auger was decontaminated between sample locations using a pressurized steam cleaner.

4.3 Subsurface Soil Sampling

Prior to conducting intrusive field activities, underground utilities within the vicinity of each sampling location were located and marked by a subcontractor. A total of 51 subsurface soil samples were collected during this investigation, consisting of 31 samples from undeveloped areas and 20 samples from developed areas. The soil borings were advanced to depths up to 15 feet bgs, using either a hand auger or a Geoprobe 6620DT direct push technology (DPT) rig operated by Probe Technologies, Inc. The DPT sampling method utilized an open core barrel sampling device with disposable acetate liners. Down-hole sampling equipment was decontaminated between borings using a steam cleaner, and new acetate liners were used to retrieve each successive soil core. CH2M HILL field staff examined the DPT soil cores and hand auger soil cuttings and described the soil types using the Unified Soil Classification System (USCS). Soil boring logs are provided in **Appendix A**.

Subsurface samples were collected from unsaturated soils, placed in laboratory-supplied containers, packed in an iced cooler, and shipped to CompuChem for analysis, as described in **Table 4-1**. Borings were backfilled using the soil cores or cuttings.

4.4 Sample Management

4.4.1 Sample Designation

In order to identify and track the various samples, all samples were assigned unique identifications. The sample numbers serve to identify the type of investigation, location, depth, and quality assurance (QA)/quality control (QC) sample types. The sample nomenclature is as follows:

Investigation – Sample and Station number – Sample depth interval – year and quarter

For example:

BBG-SS02-00-01-10B
BBG – Base Background
SS02 – Surface Soil Sample/ Location 02
00-01 – Sample depth interval 0-1 foot bgs
10B – Collected in Calendar year 2010 during the second quarter (B)

4.4.2 Quality Assurance/Quality Control Program

QA/QC samples were collected in accordance with the UFP-SAP (CH2M HILL, 2010a). Duplicates, matrix spike/matrix spike duplicate (MS/MSD), equipment rinseate blanks, and field blanks were collected at the following frequency:

Duplicate samples	1 per 10 samples
MS/MSD samples	1 per 20 samples
Equipment blanks	1 per lot of disposable equipment/1 per day per reusable equipment
Field blanks	1 per week

Due to logistical difficulties associated with short hold times for aqueous hexavalent chromium samples, equipment blanks were collected weekly instead of daily as specified in the UFP-SAP.

4.4.3 Analytical Program and Data Validation

All samples were shipped under chain-of-custody control to CompuChem Labs of Cary, North Carolina, for the analyses listed in **Table 4-2** for surface soils and **Table 4-3** for subsurface soils.

The laboratory analytical data were submitted for validation by Environmental Data Quality, Inc. The data was validated in accordance with the *National Functional Guidelines for Organic Data Review* (USEPA, 1999), and *National Functional Guidelines for Inorganic Data Review* (USEPA, 2004). Following validation, the electronic data were uploaded into the CH2M HILL database. These steps (third-party validation and electronic data handling) serve to reduce inherent uncertainties associated with data authenticity and usability.

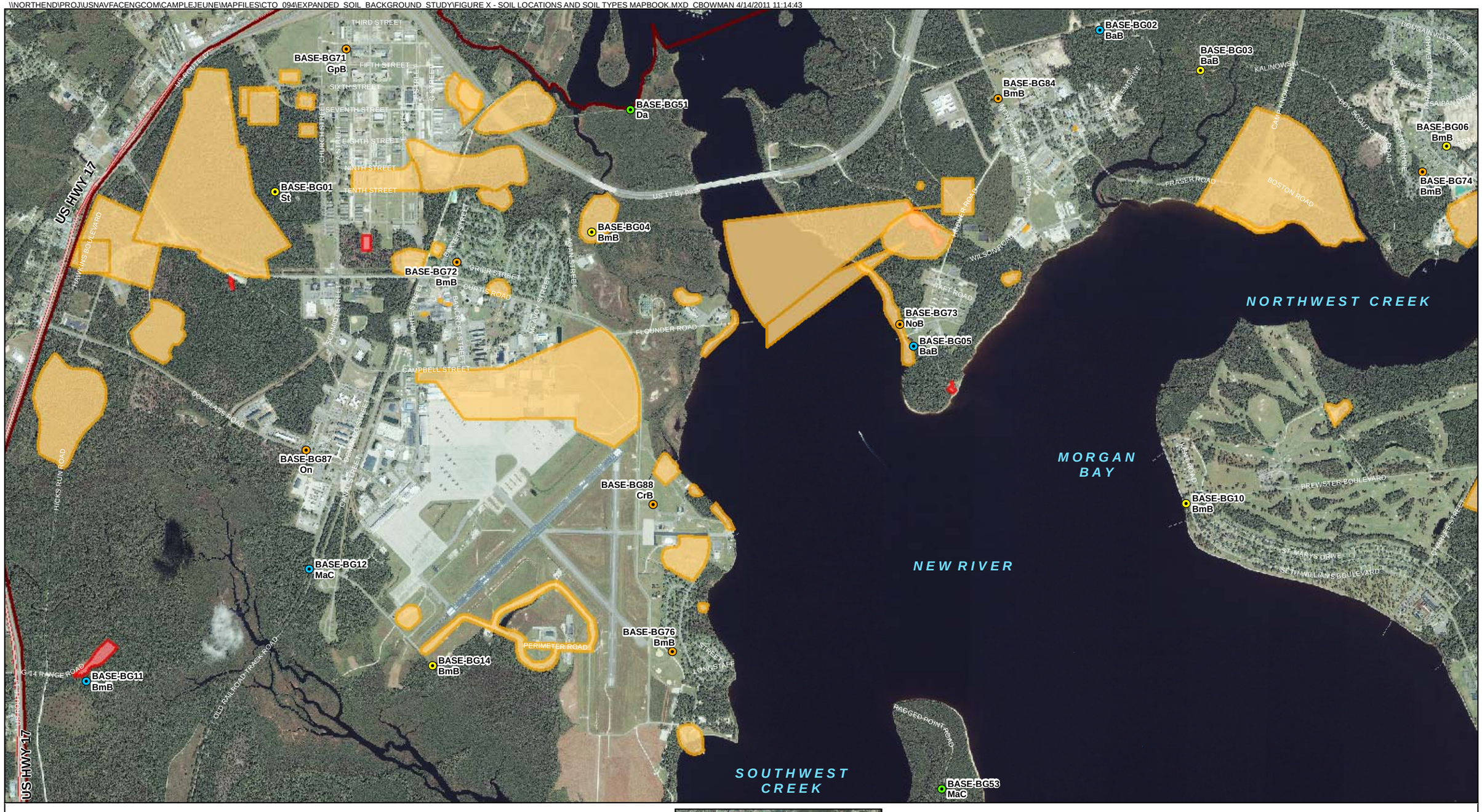
TABLE 4-1
Sample Design and Rationale
Expanded Soil Background Study
MCB CamLej, North Carolina

Matrix	Depth of Samples	Target Analytes	Number of Samples	Rationale
Surface/subsurface soil sample from previously sampled undeveloped locations.	**Surface** – 0-1 ft bgs	Total and speciated Chromium	20	To evaluate the background concentrations of targeted analytes, (metals were previously analyzed)
		PAHs		
	Subsurface – Above water table or ≤ 15 ft	Pesticides	20	
		Grain size		
Surface/subsurface soil samples from new locations in undeveloped areas	**Surface** – 0-1 foot bgs	Metals and speciated chromium	20	To evaluate the background concentrations of targeted analytes in targeted soil types.
		PAHs		
	Subsurface – Above water table or ≤ 15 ft	Pesticides	11	
		Grain size		
Surface/subsurface soil samples from new locations in developed areas	**Surface** – 0-1 ft bgs	Metals and speciated chromium	20	To evaluate the background concentration of targeted analytes in developed areas.
		PAHs		
	Subsurface – Above water table or ≤ 15 ft	Pesticides	20	
		Grain size		

TABLE 4-2
Analytical Methods - Subsurface Soil
Expanded Soil Background Study
MCB CamLej, North Carolina

Sample ID	Analytical Group
2001 Base Background Study Sample Locations - Undeveloped Area	
BBG-SB02-5-6-10B	Total Chromium (USEPA Method SW-846 6010B)
BBG-SB05-7-8-10B	Chromium VI (USEPA Method SW-846 7196A)
BBG-SB08-6-7-10B	PAHs (USEPA Method SW-846 3550B/8270C)
BBG-SB11-11-12-10B	Pesticides (USEPA Method SW-846 3550/8081A)
BBG-SB12-2-3-10B	Grain Size (ASTM D422)
BBG-SB18-12-13-10B	
BBG-SB23-1.5-2.5-10B	
BBG-SB24-3-4-10B	
BBG-SB25-3-4-10B	
BBG-SB31-5-6-10B	
BBG-SB32-2.5-3.5-10B	
BBG-SB33-4-5-10B	
BBG-SB35-2-3-10B	
BBG-SB41-1-2-10B	
BBG-SB43-3-4-10B	
BBG-SB44-5-6-10B	
BBG-SB47-14-15-10B	
BBG-SB48-7-8-10B	
BBG-SB49-11-12-10B	
BBG-SB50-1-2-10B	
Expanded Soil Background Study Sample Locations - Undeveloped Area	
BBG-SB53-7-8-10B	TAL Metals (USEPA Method SW-846 6010B, 7471A)
BBG-SB54-4-5-10B	Chromium VI (USEPA Method SW-846 7196A)
BBG-SB55-2.5-3.5-10B	PAHs (USEPA Method SW-846 3550B/8270C)
BBG-SB56-3-4-10B	Pesticides (USEPA Method SW-846 3550/8081A)
BBG-SB59-9-10-10B	Grain Size (ASTM D422)
BBG-SB61-6-7-10B	
BBG-SB63-5.5-6.5-10B	
BBG-SB64-1-2-10B	
BBG-SB65-1-2-10B	
BBG-SB69-2-3-10B	
BBG-SB70-1-2-10B	
Expanded Soil Background Study Sample Locations - Developed Area	
BBG-SB71-4-5-10B	TAL Metals (USEPA Method SW-846 6010B, 7471A)
BBG-SB72-2-3-10B	Chromium VI (USEPA Method SW-846 7196A)
BBG-SB73-9-10-10B	PAHs (USEPA Method SW-846 3550B/8270C)
BBG-SB74-4-5-10B	Pesticides (USEPA Method SW-846 3550/8081A)
BBG-SB75-3.5-4.5-10B	Grain Size (ASTM D422)
BBG-SB76-6-7-10B	
BBG-SB77-3.5-4.5-10B	
BBG-SB78-3.5-4.5-10B	
BBG-SB79-11-12-10B	
BBG-SB80-3-4-10B	
BBG-SB81-5-6-10B	
BBG-SB82-2-3-10B	
BBG-SB83-6.5-7.5-10B	
BBG-SB84-6-7-10B	
BBG-SB85-1.5-2.5-10B	
BBG-SB86-3-4-10B	
BBG-SB87-3-4-10B	
BBG-SB88-2.5-3.5-10B	
BBG-SB89-6.5-7.5-10B	
BBG-SB90-2-3-10B	

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43

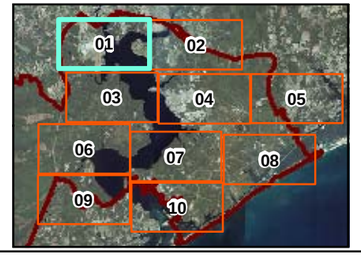


Legend

Sampling Locations
- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area

Installation Boundary
Range Areas
Environmental Restoration Areas
Impact Area

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.



N

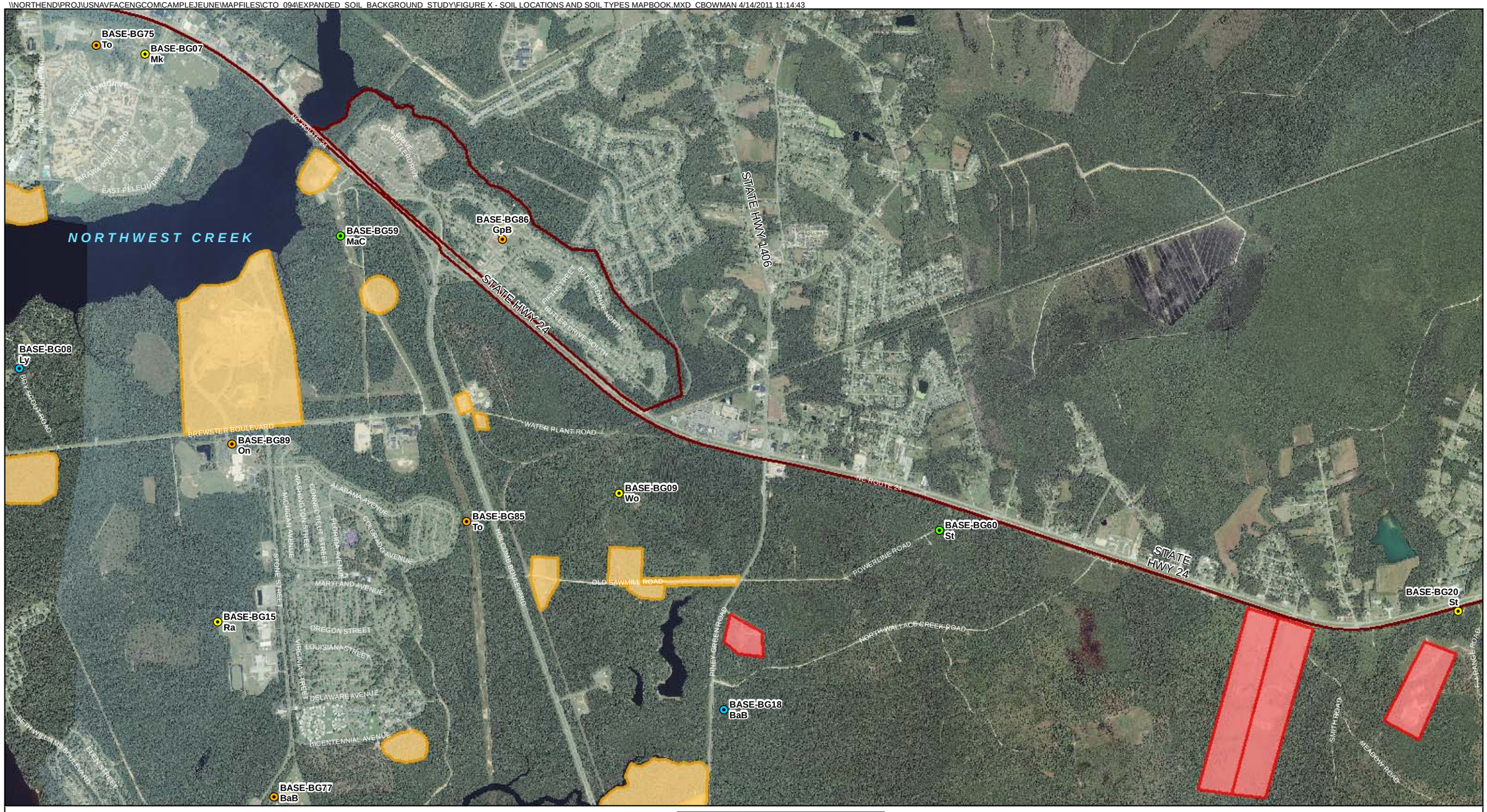
0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-1
Sampling Locations - MCAS New River and Montford Point
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43

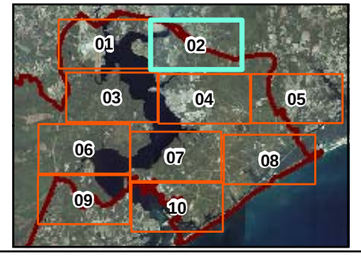


Legend

Sampling Locations

- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area
- Installation Boundary
- Range Areas
- Environmental Restoration Areas
- Impact Area

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.



N

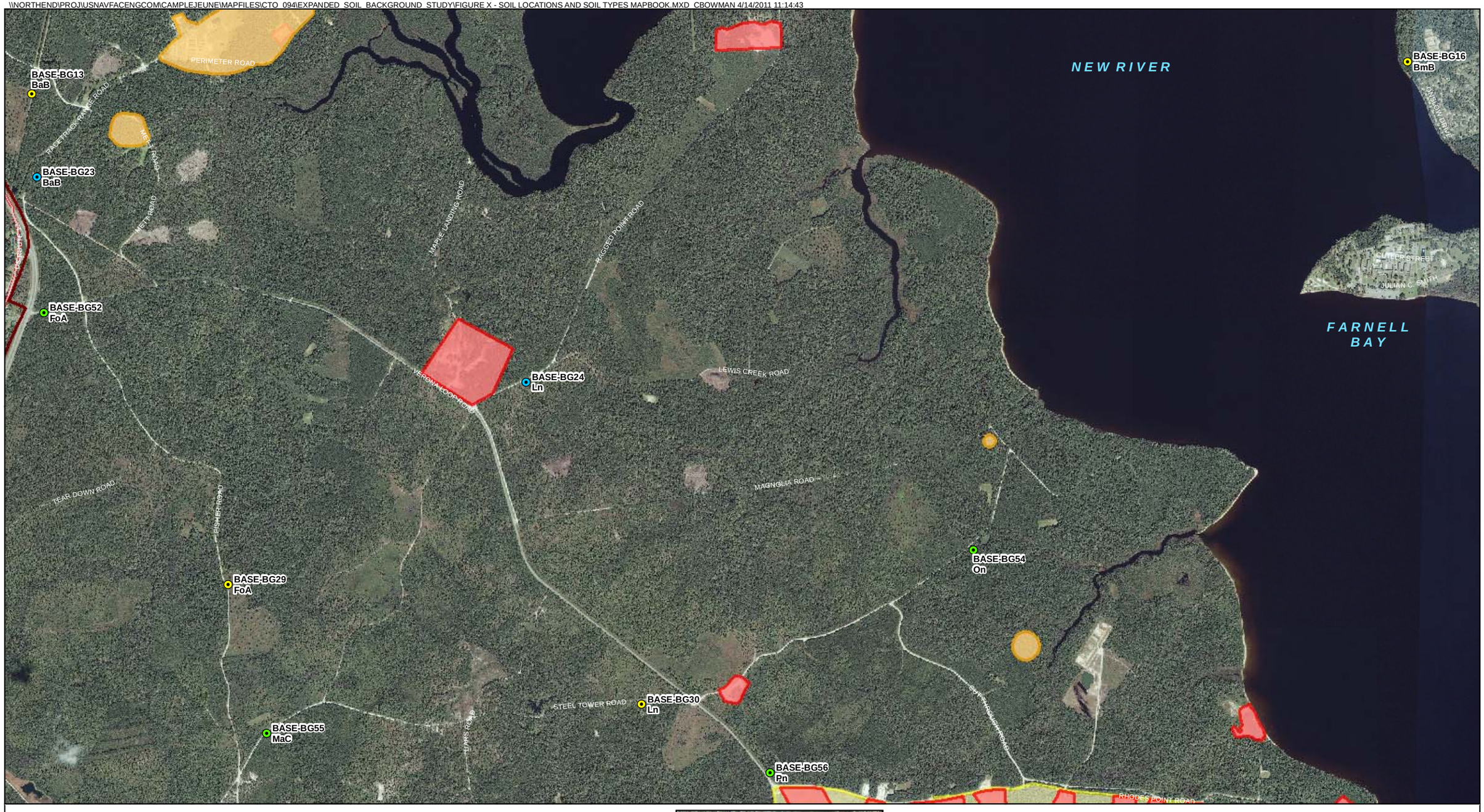
0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-2
Sampling Locations - Mainside, Paradise Point
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43

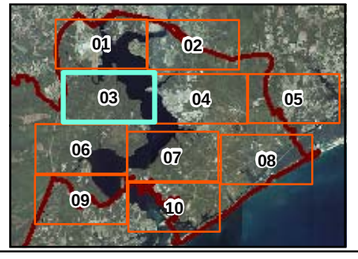


Legend

Sampling Locations

- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area
- Installation Boundary
- Range Areas
- Environmental Restoration Areas
- Impact Area

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.



N

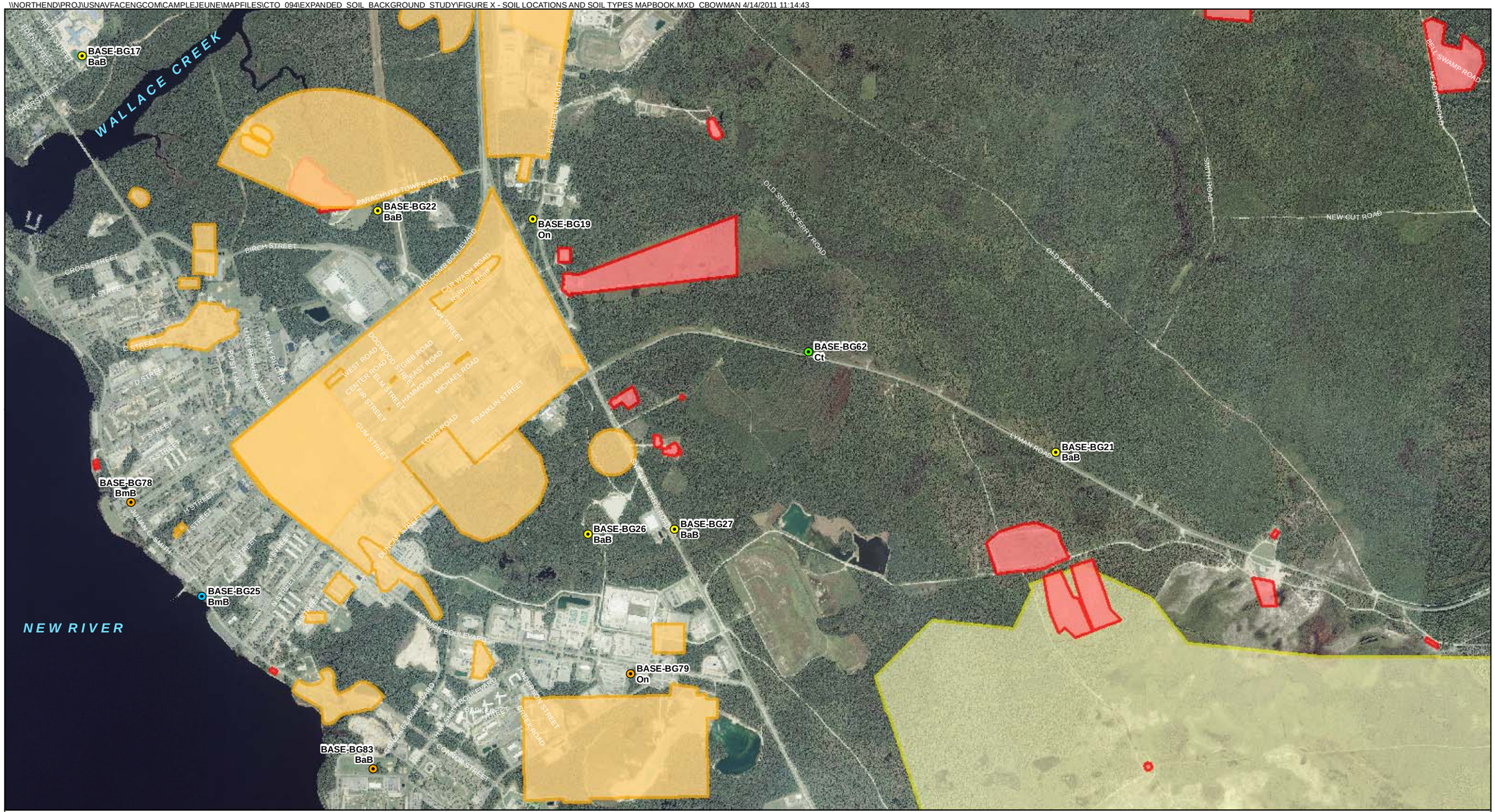
0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-3
Sampling Locations - MCAS New River, Devil Dog Area
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43



Legend

Sampling Locations
- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area
- Installation Boundary
- Range Areas
- Environmental Restoration Areas
- Impact Area

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.

N

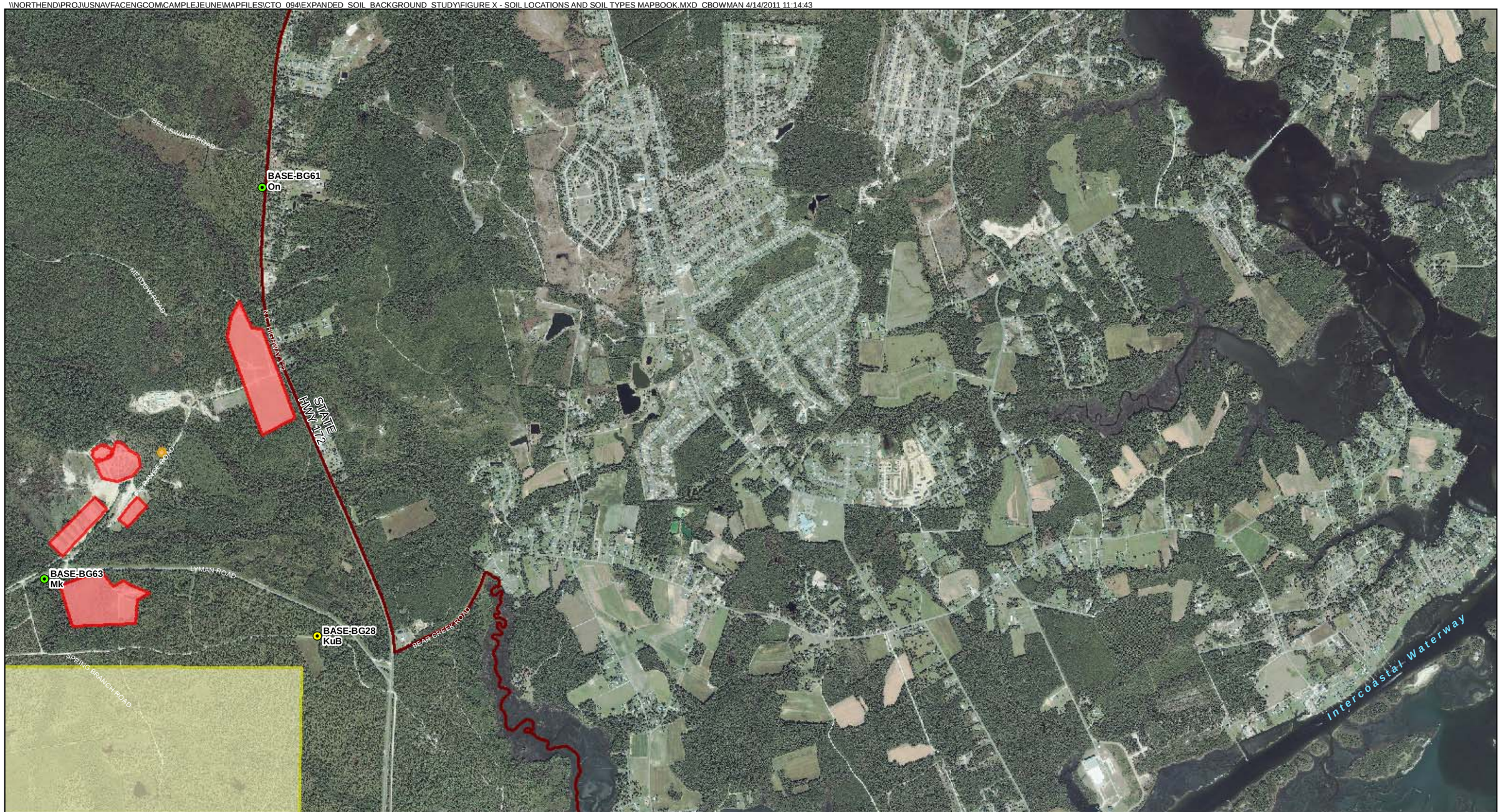
0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-4
Sampling Locations - Mainside, Hadnot Point Industrial Area
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43

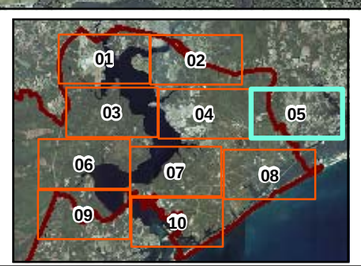


Legend

Sampling Locations

- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area
- Installation Boundary
- Range Areas
- Environmental Restoration Areas
- Impact Area

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.



N

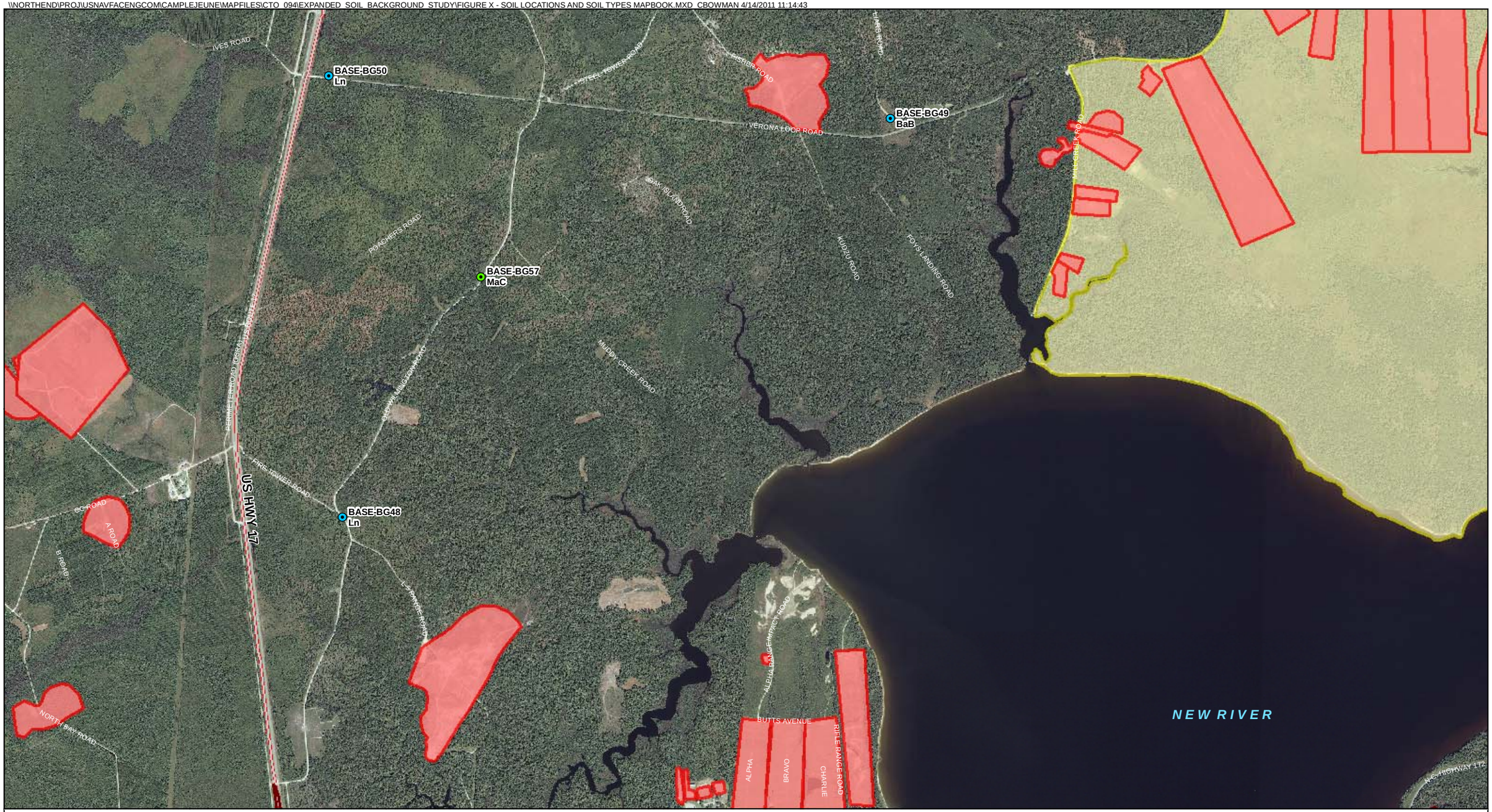
0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-5
Sampling Locations - Mainside, Eastern Border
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43

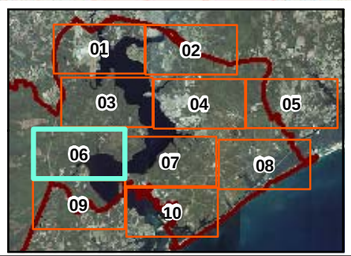


Legend

Sampling Locations

- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area
- Installation Boundary
- Range Areas
- Environmental Restoration Areas
- Impact Area

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.



N

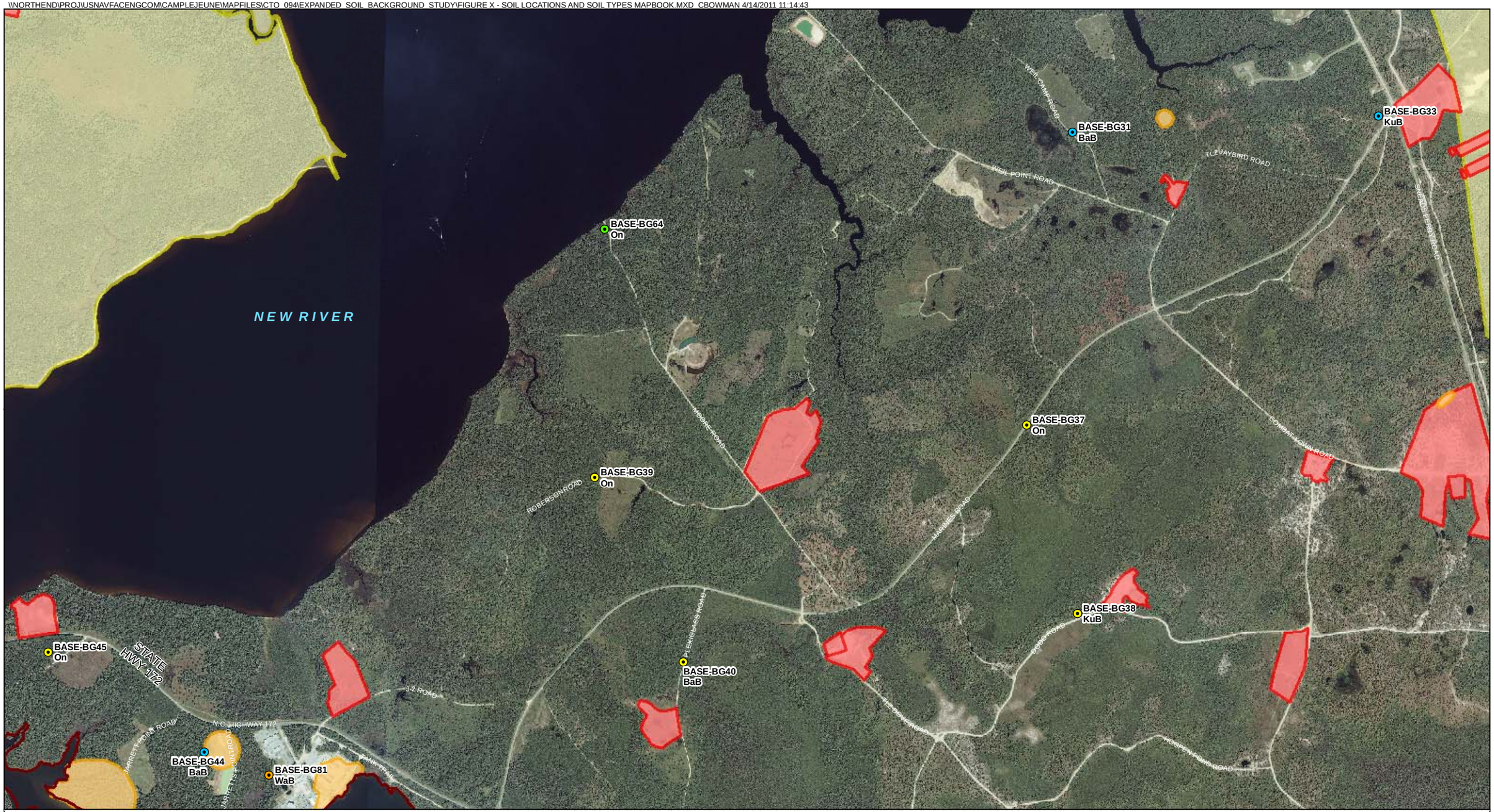
0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-6
Sampling Locations - Rifle Range Area, North
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43

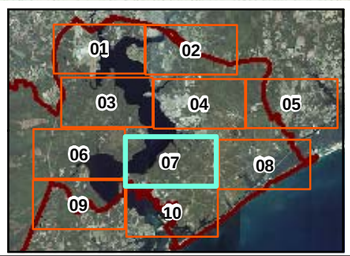


Legend

Sampling Locations

- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area
- Installation Boundary
- Range Areas
- Environmental Restoration Areas
- Impact Area

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.



N

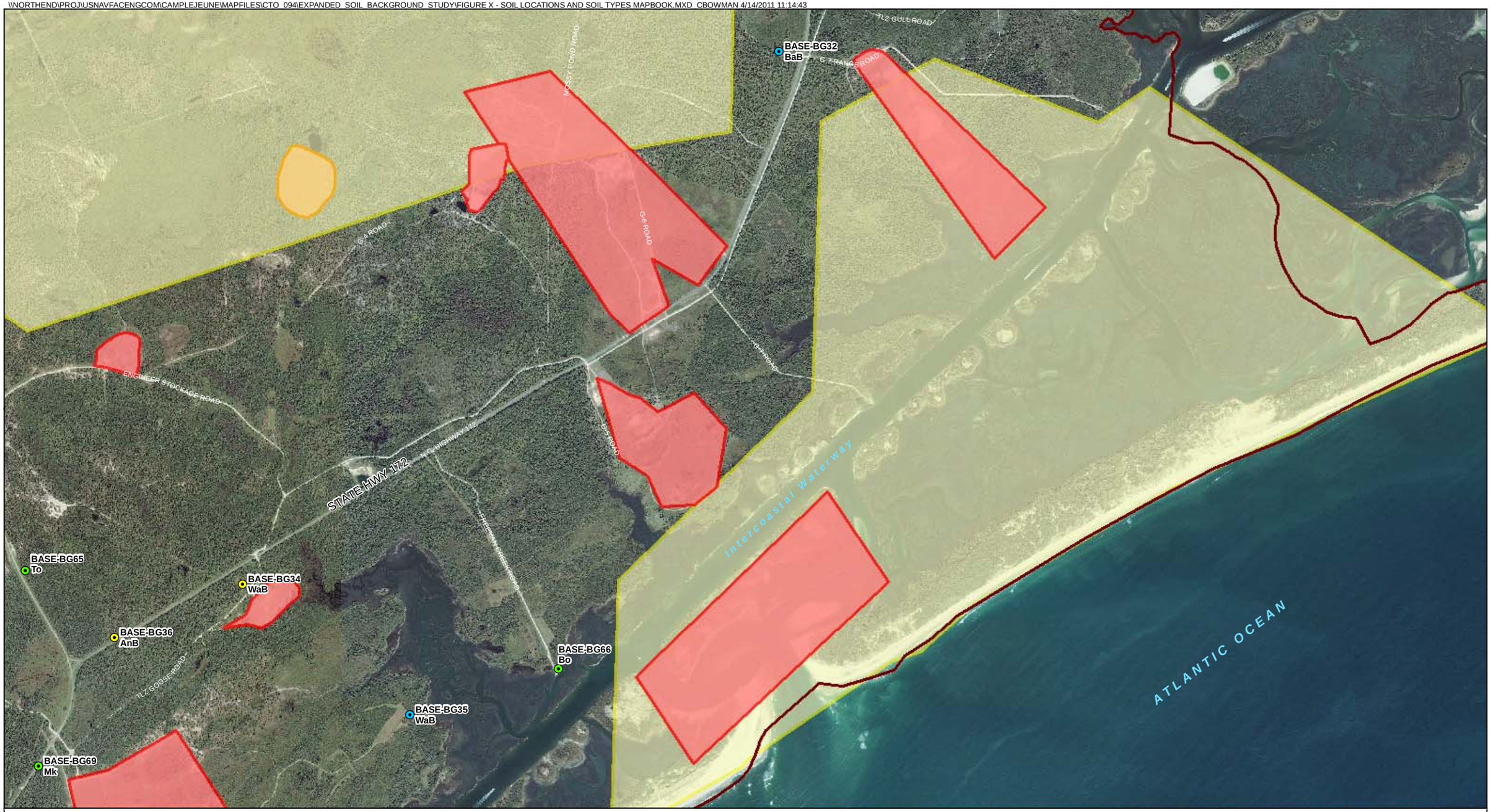
0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-7
Sampling Locations - Courthouse Bay, North
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43

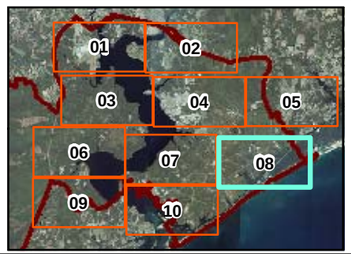


Legend

Sampling Locations

- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area
- Installation Boundary
- Range Areas
- Environmental Restoration Areas
- Impact Area

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.



N

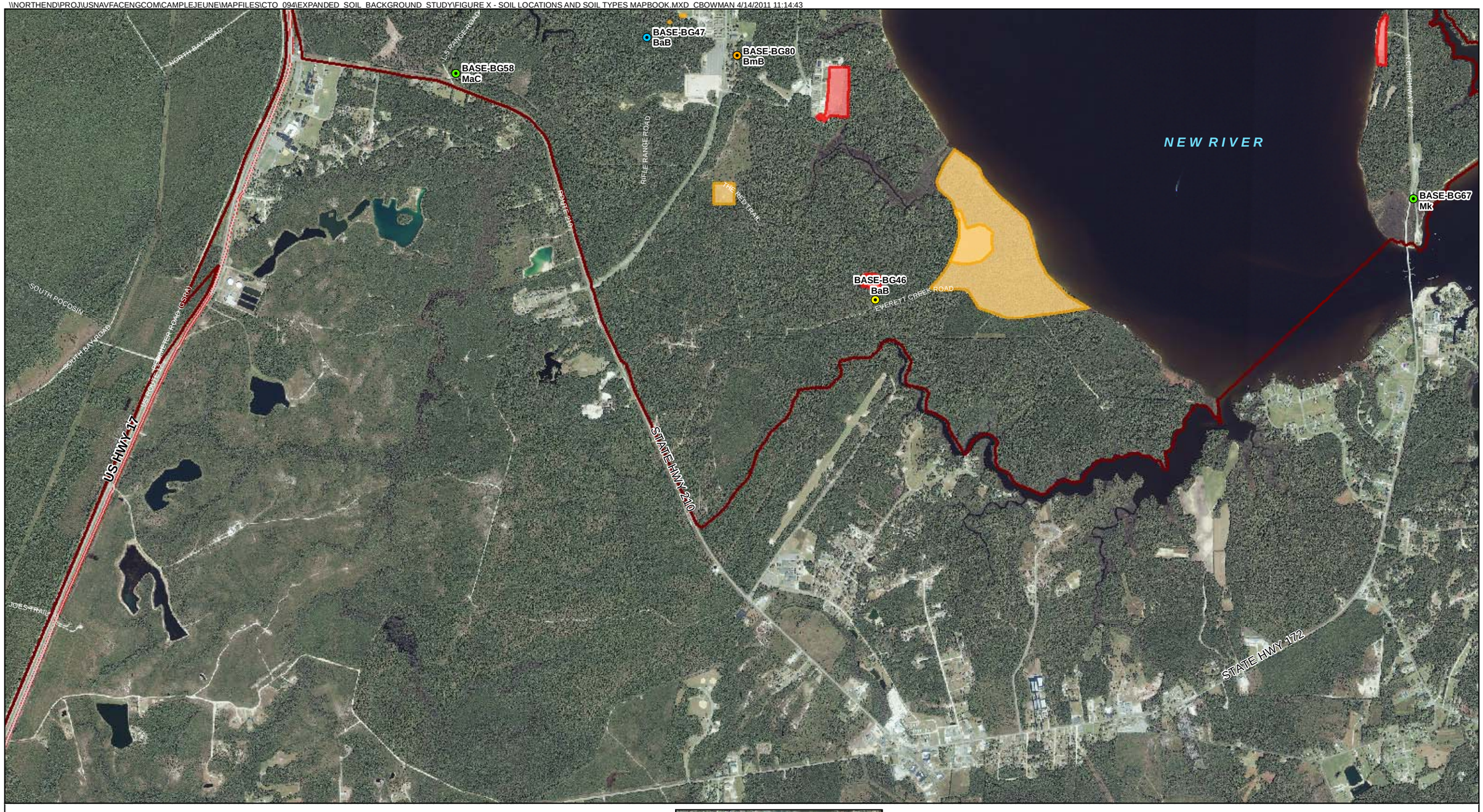
0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-8
Sampling Locations - Mainside, Onslow Beach
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43



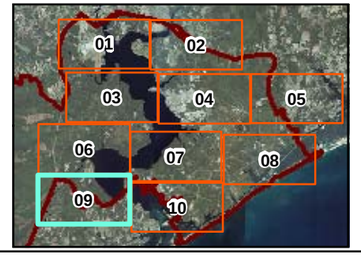
Legend

Sampling Locations
- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area

Impact Area

Installation Boundary
Range Areas
Environmental Restoration Areas

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.



N

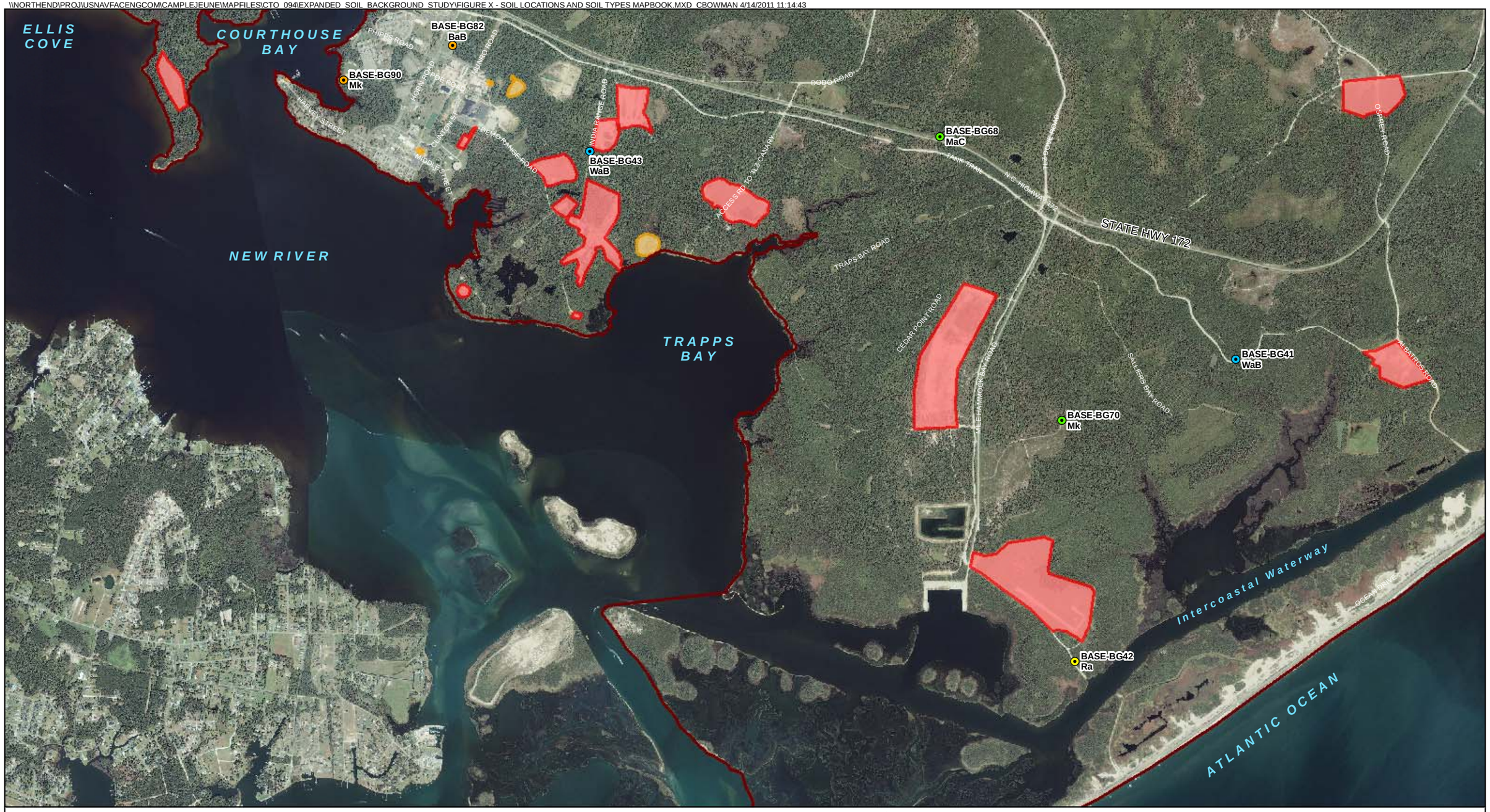
0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-9
Sampling Locations - Rifle Range Area, South
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

\\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\CTO_094\EXPANDED_SOIL_BACKGROUND_STUDY\FIGURE X - SOIL LOCATIONS AND SOIL TYPES MAPBOOK.MXD CBOWMAN 4/14/2011 11:14:43

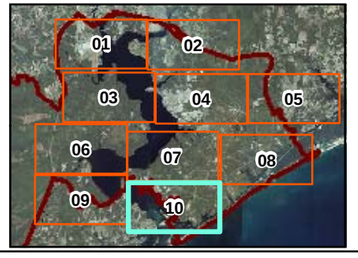


Legend

Sampling Locations

- 2010 Developed Area
- 2010 Undeveloped Area
- 2000/2010 Undeveloped Area
- 2000 Undeveloped Area
- Installation Boundary
- Range Areas
- Environmental Restoration Areas
- Impact Area

Note: SCS soil type (e.g. BmB) for each sampling location is provided below the Station ID.



N

0 1,000 2,000 4,000 Feet

1 inch = 2,000 feet

Figure 4-10
Sampling Locations - Courthouse Bay, South
Expanded Soil Background Study
MCB CamLej
North Carolina

CH2MHILL

SECTION 5

Statistical Evaluation

This section provides a summary of the analytical results from the Expanded Soil Background Study and a statistical evaluation of the updated background data set. The updated background data set includes data from the initial Base Background Study (Baker, 2001) and this Expanded Soil Background Study.

5.1 Analytical Results

Analytical data for surface and subsurface soil samples collected from undeveloped areas are provided in **Table 5-1** and **5-2**, respectively. Analytical data for surface and subsurface soil samples collected from developed areas are provided in **Table 5-3** and **5-4**, respectively. Laboratory results and data validation reports are provided as **Appendix B**.

All samples were collected outside of potentially impacted areas such as former ranges and waste disposal sites. The sample locations were assessed in the field to evaluate if the area had been previously disturbed (e.g., estimating the age of nearby trees) and soils were evaluated for any signs of contamination (e.g., photoionization detector readings or staining). Based on the initial sample location planning and the field observations, all samples are considered to be representative of background conditions.

5.1.1 PAH and Pesticide Results

All samples collected in May 2010 were analyzed for PAHs and pesticides in order to evaluate background concentrations for anthropogenic compounds that may exist from atmospheric deposition (PAHs) or application (pesticides). A statistical evaluation of results is provided in Section 5.2, which includes the mean, range, and BTVs for each detected analyte.

In general, PAHs were more prevalent in surface soil compared to subsurface soil collected in both undeveloped and developed areas. Although, a higher number of compounds were detected in samples collected in undeveloped areas, the percentage of detections for each compound was higher in developed areas. Benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and pyrene were detected with the highest frequency in surface soil samples from both undeveloped (35 percent and higher) and developed areas (74 percent and higher). Ideno(1,2,3-cd)pyrene and phenanthrene were also detected in undeveloped areas.

Pesticides were more prevalent in surface soil compared to subsurface soil but the difference was not as pronounced as PAHs. Similar to PAHs, a higher number of compounds were detected in samples collected in undeveloped areas but the detection frequency was slightly higher in samples collected in developed areas. 4,4'-dichlorodiphenyltrichloroethane (DDT), endosulfan sulfate, endrin aldehyde, heptachlor, and beta-benzene hexachloride were detected with the highest frequency in surface soil samples collected in undeveloped areas (greater than 20 percent). 4,4'-DDT, 4,4'-dichlorodiphenyldichloroethane (4,4'-DDD), 4,4'-dichlorodiphenyldichloroethene (DDE), and alpha chlordane were detected with the highest

frequency in surface soil samples collected in developed areas (greater than 25 percent). 4,4'-DDT and heptachlor were the only pesticides detected at a frequency greater than 20 percent in subsurface soil in undeveloped areas. 4,4'-DDE, alpha chlordane, and heptachlor were detected in samples collected in subsurface soil with a frequency greater than 20 percent in developed areas.

A summary of the detection frequencies for PAHs and pesticides is provided below:

		PAHs		Pesticides	
	Total Samples	Number of Detected Compounds	Detection Frequency Range (%)	Number of Detected Compounds	Detection Frequency Range (%)
Undeveloped	**2010**				
Surface	40	17	5 - 48	19	5 - 30
Subsurface	31	13	3 - 16	15	3 - 23
Developed	**2010**				
Surface	20	15	10 - 85	15	5 - 60
Subsurface	20	8	5 - 10	11	5 - 30

5.1.2 Inorganics

All samples collected in new undeveloped and developed locations in May 2010 were analyzed for Target Analyte List (TAL) metals and hexavalent chromium. Samples collected from the initial Base Background Study (Baker, 2001) sample locations were analyzed for total and hexavalent chromium. Data collected in 2001 were also included in the statistical evaluation and are discussed below. The total number of samples collected in undeveloped areas was significantly higher than developed, however the number of detected analytes was comparable in both sampling location groups.

In general, more metals were detected at higher frequencies (95 percent and greater) in developed areas versus undeveloped areas in both surface and subsurface soil samples. Aluminum, iron, and lead were detected in 100 percent of the surface and subsurface soil samples collected in undeveloped areas. Aluminum, barium, chromium (total and trivalent chromium), iron, lead, manganese, vanadium, and zinc were detected in 100 percent of the surface and subsurface soil samples collected in developed areas. Metals with the lowest detection frequency include: cadmium, sodium, and silver, in samples collected from undeveloped areas, and beryllium, magnesium, silver, and thallium in samples collected from developed areas. Statistical differences were observed between soil types and depths for the frequently detected metals, as discussed in **Section 5.2** below. The difference between soil types was more pronounced than the difference between depths with finer soils having a higher concentration of metals with higher detection rates. The metals with lower detection rates did not have enough data to calculate the statistical significance of depth or soil type.

	Total Samples		Inorganics	
			Number of Detected Compounds	Detection Frequency Range (%)
Undeveloped	**2001**	**2010**		
Surface	50	20	24	6-100
Subsurface	50	11	23	7-100
Developed		**2010**		
Surface		20	22	5-100
Subsurface		20	25	5-100

The detection frequency and average concentration of hexavalent chromium was lower than trivalent chromium, as summarized below:

	Total Samples	Trivalent Chromium		Hexavalent Chromium	
		Average Concentration	Detection Frequency (%)	Average Concentration	Detection Frequency (%)
Undeveloped	**2010**				
Surface	40	3.34	93	1.27	10
Subsurface	31	9.29	100	1.66	45
Developed	**2010**				
Surface	20	5.65	100	1.42	20
Subsurface	20	11.70	100	1.97	65

The ratio of hexavalent to trivalent chromium indicates that chromium exists in the more benign form of trivalent chromium rather than hexavalent chromium. The ratio of hexavalent chromium to trivalent chromium in background soils will be used to estimate the concentrations of these chemicals at site where only total chromium data is available.

5.2 Statistical Evaluation

The statistical evaluation to calculate BTVs for the Expanded Soil Background Study involved definition of data partitions (e.g., soil depth or soil type), consideration of unusually elevated values (outliers), and calculation of summary statistics. Supporting tables and statistical plots are provided in **Appendix C**. The statistical evaluation was conducted following USEPA guidance for comparing background concentrations in soil at CERCLA sites (USEPA, 2002).

5.2.1 Data Partitioning

The initial step in the statistical evaluation was to establish the appropriate data partitions, since these form the populations which are considered with the other statistical treatments. Data partitioning by source (developed and undeveloped areas) was a core separation and no attempt was made to combine these two. Soil depth (surface soil and subsurface soil) and soil types were considered in different combinations (e.g., combined soil types, or partitioning by depth and soil type).

Grain Size Analysis

In order to accurately group samples in statistical categories based on soil type, all samples collected in 2010 were analyzed for grain size using American Society for Testing and Materials (ASTM) Method C136-84A – Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates. Results were classified according to ASTM D2487 – Standard Practice for Classification of Soils for Engineering Purposes. The distinction between clay and silt was based on field observations. Grain size analysis results for surface and subsurface soil samples are provided in **Table 5-5** and **5-6**, respectively. Historical data from the initial Base Background Study (Baker, 2001) were also included in the statistical evaluation. In some instances, historical grain size analysis was not available, and soil types were derived from the boring logs. In order to have a large enough sample group to run statistical evaluations, two soil type groups were used: sand and soil with greater than 5 percent fines (silty sands, clayey sands, and organic soil).

A summary of sample counts for each soil type by area, depth, and matrix is provided below.

Soil Type Summary

Location	Depth	Sand	Sand with Fines	Total	Percent Sand	Percent Sand with Fines
PAHs and Pesticides						
Undeveloped	Surface	11	29	40	27.5	72.5
	Subsurface	10	21	31	32.3	67.7
Developed	Surface	4	16	20	20.0	80.0
	Subsurface	5	15	20	25.0	75.0
Metals						
Undeveloped	Surface	29	41	70	41.4	58.6
	Subsurface	31	30	61	51.8	49.2
Developed	Surface	4	16	20	20.0	80.0
	Subsurface	5	15	20	25.0	75.0

Wilcoxon Rank Sum Comparisons

While statistical differences do not directly imply practical differences between partitions, they do offer an initial inspection of the similarity or difference between the various partitions. In order to analyze these differences and assess the potential for combining data groups, Wilcoxon Rank Sum (WRS) comparisons between the two soil depths and the two soil types were performed.

The WRS test is a nonparametric test used for determining whether an overall difference exists between two populations. For example, the WRS test can be used to test whether measurements from one population (such as surface soil) tend to be shifted higher or lower than those from another population (such as subsurface soil) or whether the two cannot be statistically distinguished apart based on available data. As a nonparametric test based on ranks of the data, it is not overly influenced by spurious results in either data set, nor does it require any specific distributional assumption about the data.

The results of the WRS between the two soil depths are presented in Table C-1 in **Appendix C**. This test was applied with a significance level of 0.05, meaning that the calculated probabilities in Table C-1 were compared to 0.05. If the probability was lower than 0.05, a statistically significant overall shift in concentrations was concluded to exist between the two depths based on currently available data. A lower percentage of detections promotes greater uncertainty in the comparisons. Although calculated probabilities for each case are provided, no conclusion is listed when there were less than 50 percent detections (primarily PAHs and pesticides). In cases with at least 50 percent detections (primarily metals), many differences are noted between depths. These differences indicate that it is appropriate to calculate separate statistics for surface soil and subsurface soil.

WRS comparisons between the two potential soil type partitions (S and F) were performed by depth (separately for surface and subsurface). The results of this comparison are presented in Table C-2 in **Appendix C** with the calculated probabilities again compared to 0.05. As with depth comparison, no conclusion is listed when there are less than 50 percent detections. Since several analytes (primarily metals) had significant differences between soil type, separate statistics for sand and sand with fines are appropriate.

These comparisons can be visually reviewed in the box and whisker plots presented in Figures C-1 and C-2 in **Appendix C** for constituents from undeveloped and developed areas, respectively, that were detected at a frequency of at least 50 percent. Box and whisker plots present information on the central tendency, variability, and skewness for a sample data set by sketching the center 50 percent of the concentrations within a box, and then illustrating the typical tail regions of the distribution with whiskers. For atypical concentrations that extend further from the center than the whiskers, individual data symbols are plotted. Specifically, these box and whisker plots are constructed as follows:

- The height of the box represents the interquartile range (IQR). The IQR is the distance between the 25th and the 75th percentiles.
- The horizontal line in the box interior represents the median.
- The vertical lines issuing from the box (i.e., the whiskers) extend to the minimum and maximum measured values (as long as these minimum and maximum values do not extend further from the box than a distance of 1.5 times the interquartile range).
- Individual data symbols are used for concentrations that exceed the whiskers.

A further visual review of the comparisons between sand and sand with fines is presented in the normal probability plots presented in Figures C-3 and C-4 in **Appendix C** for constituents from undeveloped and developed areas, respectively, that exhibited at least 50 percent detections. Normal probability plots graph actual concentrations against theoretical quantiles if the true distribution of the data were normal. Thus, if the data set has strong adherence to a normal distribution, the plot resembles a straight line (with limited curvature); but whether or not the data resembles a normal distribution, these plots offer a convenient visual way to compare results for each individual analyte across the plot. On these plots, the S results are represented by red symbols while the F results are represented by blue symbols.

5.2.2 Evaluation of Outliers

Outliers were evaluated with Dixon's and Rosner's outlier tests. Dixon's test was used when the number of samples was less than 25 and Rosner's test was used when the number of samples was 25 or more. The five most elevated results from each partition were evaluated with the respective mathematical outlier test. Both Dixon's and Rosner's tests assume that the data values (aside from those being tested as potential outliers) are normally distributed. Since environmental data, when not symmetrically distributed as with a normal distribution, tend to be right-skewed, a test that relies on an assumption of a normal distribution will tend to have a relatively large number of mathematical outliers.

Background locations were carefully selected for this program to avoid locations that would be impacted by historical waste management practices. In choosing elevated results to exclude from the background data set (prior to calculation of BTVs) mathematical outliers were screened by the percent they exceeded the next highest concentration. Only cases where the value exceeded the next highest value by 5 times or half an order of magnitude were excluded from the data set. The results to be excluded are listed in Table C-3 in **Appendix C**.

5.2.3 Calculation of Background Threshold Values

A primary goal of the Expanded Soil Background Study was to calculate BTVs. This report focuses on a 95/95 upper tolerance limit (UTL), which is an upper bound (with 95 percent confidence) of the background 95th percentile. This common BTV was calculated using the algorithms present in ProUCL (USEPA, 2009). Other BTVs sometimes used in background studies include two times the mean and the mean plus two standard deviations. These BTVs do not carry the technical reputation of a UTL, but are straightforward to calculate. However, when non-detections are present and a proxy value of half the reporting limit is substituted for the non-detect, the results can lead to confusing situations where these reporting limits are greater than detected concentrations. When this occurs, the calculated mean and standard deviation can be dominated by the magnitude of the reporting limits. This is not the case with the UTL calculations since the algorithms within ProUCL focus on the detected values.

As long as at least 60 percent of the results were actual detections, the distributions appearing most appropriate via ProUCL's distributional checks (normal, lognormal, or gamma) were used to calculate the UTL. When not all results were actual detections, the ProUCL algorithms seek to apply maximum-likelihood-estimate (MLE) or regression on order statistics (ROS) techniques to estimate the mean and standard deviation parameters used in the calculation of the UTLs. When a UTL estimated using MLE or ROS techniques was possible within ProUCL's algorithms, that approach was preferred over one using alternate proxy values (e.g., analytical reporting limit divided by 2).

Another nonparametric approach provided in ProUCL is the Kaplan-Meier (KM) method. As applied in ProUCL, this approach estimates the mean and standard deviation for left-censored data sets (those with non-detections). The KM method was applied both to cases when fewer than 60 percent of the results were detected and when the percent detections was greater than 60 percent and no discernable distribution was available. This approach estimates the UTL for left-censored data sets (those with non-detections).

Based upon the sample size, variability, and distributional choice, UTLs sometimes exceed the maximum detected concentration. One reason for this is that the UTL is an estimate of a target of the 95th percentile (with 95 percent confidence) of the background population, and a small percentage of background results from the overall background population are expected to exceed the calculated UTL. Whether such occurrences are captured in the background data depends on the number of background sample results available.

TABLE 5-1
Surface Soil Analytical Results - Undeveloped Areas
Expanded Soil Background Study
MCB CamLej, North Carolina

Station ID	BASE-BG02		BASE-BG05	BASE-BG08	BASE-BG11	BASE-BG12	BASE-BG18	BASE-BG23	BASE-BG24	BASE-BG25	BASE-BG31	BASE-BG32		BASE-BG33	BASE-BG35	BASE-BG41
Sample ID	BBG-SS02-0-1-10B	BBG-SS02D-0-1-10B	BBG-SS05-0-1-10B	BBG-SS08-0-1-10B	BBG-SS11-0-1-10B	BBG-SS12-0-1-10B	BBG-SS18-0-1-10B	BBG-SS23-0-1-10B	BBG-SS24-0-1-10B	BBG-SS25-0-1-10B	BBG-SS31-0-1-10B	BBG-SS32-0-1-10B	BBG-SS32D-0-1-10B	BBG-SS33-0-1-10B	BBG-SS35-0-1-10B	BBG-SS41-0-1-10B
Sample Date	5/14/10	5/14/10	5/14/10	5/13/10	5/11/10	5/19/10	5/12/10	5/10/10	5/11/10	5/13/10	5/17/10	5/18/10	5/18/10	5/17/10	5/20/10	5/20/10
Chemical Name																
Polycyclic Aromatic Hydrocarbons (µg/kg)																
2-Methylnaphthalene	9.9 U	9.4 U	11 U	9.2 U	8.6 U	9 U	9 U	9.2 U	9.3 U	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 UJ	9 UJ
Acenaphthene	9.9 U	9.4 U	11 U	9.2 U	8.6 U	9 U	9 U	9.2 U	9.3 U	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 UJ	9 UJ
Acenaphthylene	9.9 U	9.4 U	11 U	9.2 U	8.6 U	9 U	9 U	0.6 J	9.3 U	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 UJ	9 UJ
Anthracene	9.9 U	9.4 U	2.8 J	1.2 J	8.6 U	9 U	9 U	0.55 J	0.7 J	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 UJ	9 UJ
Benzo(a)anthracene	9.9 U	9.4 U	17	2.1 J	8.6 U	9 U	9 U	0.92 J	1.2 J	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 U	9 U
Benzo(a)pyrene	0.48 J	9.4 U	12	2 J	8.6 U	9 U	9 U	1 J	0.58 J	8.7 U	0.51 J	8.6 UJ	8.6 UJ	11 U	8.7 U	9 U
Benzo(b)fluoranthene	0.8 J	9.4 U	17	7.4 J	8.6 U	0.64 J	9 U	1.8 J	1.2 J	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 U	9 U
Benzo(g,h,i)perylene	9.9 U	9.4 U	7.4 J	2.6 J	8.6 U	9 U	9 U	2.6 J	0.66 J	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 U	9 U
Benzo(k)fluoranthene	0.6 J	0.5 J	13	4.9 J	8.6 U	9 U	9 U	0.99 J	0.72 J	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 U	9 U
Chrysene	9.9 U	9.4 U	17	5.7 J	8.6 U	9 U	9 U	1.2 J	1.4 J	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 U	9 U
Dibenz(a,h)anthracene	9.9 U	9.4 U	2.7 J	9.2 U	8.6 U	9 U	9 U	9.2 U	9.3 U	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 U	9 U
Fluoranthene	9.9 U	9.4 U	41	3 J	8.6 U	9 U	9 U	9.2 U	2.9 J	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 U	9 U
Fluorene	9.9 U	9.4 U	0.64 J	9.2 U	8.6 U	9 U	9 U	9.2 U	0.65 J	8.7 U	11 U	8.6 UJ	8.6 UJ	11 U	8.7 UJ	9 UJ
Indeno(1,2,3-cd)pyrene	0.45 J	9.4 U	9.5 J	3.2 J	8.6 U	9 U	9 U	1.9 J	0.79 J	8.7 U	0.53 J	4 J	3.9 J	11 U	8.7 U	9 U
Naphthalene	9.9 U	9.4 U	11 U	9.2 U	8.6 U	9 U	9 U	0.89 J	9.3 U	8.7 U	11 U	8.6 U	8.6 U	11 U	8.7 U	9 U
Phenanthrene	9.9 U	9.4 U	15	9.2 U	8.6 U	9 U	9 U	1.5 J	3.1 J	8.7 U	2.1 J	8.6 UJ	8.6 UJ	11 U	8.7 UJ	9 UJ
Pyrene	0.89 J	9.4 U	27	3.9 J	8.6 U	0.76 J	9 U	1.5 J	2.5 J	0.88 J	1.2 J	8.6 UJ	8.6 UJ	11 U	8.7 U	9 U
Pesticides (µg/kg)																
4,4'-DDD	3.9 UJ	3.8 U	4.2 U	20	3.4 U	3.6 U	3.6 U	3.7 U	3.7 U	3.5 U	0.59 J	0.39 J	3.4 U	4.2 UJ	3.5 U	3.6 U
4,4'-DDE	3.9 UJ	3.8 U	4.2 U	20	3.4 U	3.6 U	3.6 U	1.9 J	3.7 U	3.5 U	4.2 U	3.4 U	3.4 U	0.52 J	3.5 U	3.6 U
4,4'-DDT	3.9 UJ	3.8 U	4.2 U	3.7	3.4 U	5.9	3.6 U	1.3 J	3.7 U	3.5 U	4.2 U	3.4 U	3.4 U	0.64 J	3.5 U	3.6 U
Aldrin	2 UJ	1.9 U	2.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.2 U	1.8 U	1.8 U	2.2 UJ	1.8 U	1.8 U
alpha-BHC	2 UJ	1.9 U	2.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.2 U	1.8 U	1.8 U	2.2 UJ	1.8 U	1.8 U
alpha-Chlordane	2 UJ	1.9 U	2.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	0.24 J	0.34 J	1.8 U	2.2 UJ	1.8 U	1.8 U
beta-BHC	2 UJ	1.9 U	0.59 J	1.9 U	1 J	0.53 J	3.4 U	1.9 U	0.6 J	3.1	2.2 U	1.8 U	1.8 U	0.87 J	0.9 U	0.93 U
delta-BHC	2 UJ	0.47 J	2.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.2 U	1.8 U	1.8 U	2.2 UJ	1.8 U	1.8 U
Dieldrin	3.9 UJ	3.8 U	4.2 U	3.7 U	3.4 U	3.6 U	3.6 U	3.7 U	3.7 U	1.3 J	4.2 U	3.4 U	3.4 U	4.2 UJ	3.5 U	3.6 U
Endosulfan I	2 UJ	1.9 U	2.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.2 U	1.8 U	1.8 U	0.63 J	0.2 J	1.8 U
Endosulfan II	3.9 UJ	3.8 U	0.81 J	3.7 U	3.4 U	3.6 U	3.6 U	3.7 U	3.7 U	11	4.2 U	3.4 U	3.4 U	4.2 UJ	3.5 U	3.6 U
Endosulfan sulfate	3.9 UJ	3.8 U	4.2 U	0.66 J	3.4 U	3.6 U	3.6 U	0.62 J	3.7 U	3.5 U	4.2 U	3.4 U	3.4 U	4.2 UJ	3.5 U	3.6 U
Endrin	3.9 UJ	3.8 U	4.2 U	3.7 U	3.4 U	3.6 U	3.6 U	3.7 U	3.7 U	3.5 U	4.2 U	3.4 U	1.4 J	4.2 UJ	3.5 U	3.6 U
Endrin aldehyde	3.9 UJ	3.8 U	4.2 U	1.1 J	3.4 U	0.81 J	3.6 U	3.7 U	3.7 U	3.5 U	4.2 U	3.4 U	3.4 U	4.2 UJ	3.5 U	3.6 U
Endrin ketone	3.9 UJ	3.8 U	4.2 U	3.7 U	3.4 U	3.6 U	3.6 U	3.7 U	3.7 U	3.5 U	1.5 J	0.91 J	2.8 J	4.2 UJ	3.5 U	3.6 U
gamma-BHC (Lindane)	2 UJ	1.9 U	2.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	0.62 J	1.8 U	1.8 U	2.2 UJ	1.8 U	1.8 U
gamma-Chlordane	2 UJ	1.9 U	1.5 J	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	2 U	0.22 J	1.8 U	1.8 U	2.2 UJ	1.8 U	1.8 U
Heptachlor	0.29 J	1.9 U	0.35 J	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	2.2 U	1.8 U	1.8 U	2.2 UJ	1.8 U	1.8 U
Heptachlor epoxide	2 UJ	1.9 U	2.2 U	1.9 U	1.8 U	1.8 U	1.8 U	1.9 U	1.9 U	1.8 U	0.34 J	1.8 U	1.8 U	2.2 UJ	1.8 U	1.8 U
Methoxychlor	20 UJ	19 U	22 U	19 U	18 U	18 U	18 U	19 U	19 U	18 U	22 U	18 U	18 U	22 UJ	18 U	18 U
Metals (mg/kg)																
Aluminum	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Antimony	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Calcium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	14.9	13.6	1.9	10	1.7	15.8	2.4	3.2	1.1 U	1.6	3.9	2.4	2	0.82 B	2.3	2.6
Chromium (hexavalent)	1.86 J	1.35 J	2.53 U	2.22 U	2.08 U	2.04 J	2.16 U	2.23 U	2.25 U	2.1 U	2.25 U	2.05 U	2.06 U	2.4 J	2.1 U	2.19 U
Chromium III and compounds	13	12.2	1.9	10	1.77	13.9	2.49	3.23	0.56	1.58	3.82	2.36	1.96	0.618	2.3	2.6
Cobalt	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Magnesium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Sodium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

B - Analyte not detected above the level reported in blanks
J- - Analyte present. Value may be biased low.
J - Analyte present. Value may or may not be accurate or precise
J+ - Analyte present. Value may be biased high.
mg/kg - Milligrams per kilogram
N - Tentative Identification. Consider Present.
NS - Not sampled
U - The material was analyzed for, but not detected
µg/kg - Micrograms per kilogram
UJ - Analyte not detected, quantitation limit may be inaccurate
Shading indicates detection

TABLE 5-1
Surface Soil Analytical Results - Undeveloped Areas
Expanded Soil Background Study
MCB CamLej, North Carolina

Station ID	BASE-BG43	BASE-BG44	BASE-BG47	BASE-BG48	BASE-BG49	BASE-BG50	BASE-BG51		BASE-BG52	BASE-BG53	BASE-BG54	BASE-BG55	BASE-BG56	BASE-BG57	BASE-BG58	BASE-BG59
Sample ID	BBG-SS43-0-1-10B	BBG-SS44-0-1-10B	BBG-SS47-0-1-10B	BBG-SS48-0-1-10B	BBG-SS49-0-1-10B	BBG-SS50-0-1-10B	BBG-SS51-0-1-10B	BBG-SS51D-0-1-10B	BBG-SS52-0-1-10B	BBG-SS53-0-1-10B	BBG-SS54-0-1-10B	BBG-SS55-0-1-10B	BBG-SS56-0-1-10B	BBG-SS57-0-1-10B	BBG-SS58-0-1-10B	BBG-SS59-0-1-10B
Sample Date	5/20/10	5/20/10	5/12/10	5/12/10	5/11/10	5/11/10	5/19/10	5/19/10	5/11/10	5/11/10	5/11/10	5/11/10	5/11/10	5/12/10	5/12/10	5/12/10
Chemical Name																
Polycyclic Aromatic Hydrocarbons (µg/kg)																
2-Methylnaphthalene	8.6 U	8.9 UJ	1 J	9.7 U	9 U	1.1 J	1.1 J	1.6 J	10 U	11 UJ	9 UJ	13 U	10 U	11 U	8.7 U	8.7 U
Acenaphthene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	1.3 J	12 UJ	0.92 J	10 U	11 UJ	9 UJ	13 U	10 U	11 U	8.7 U	8.7 U
Acenaphthylene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	13 U	0.83 J	11 UJ	10 U	11 UJ	0.77 J	13 U	10 U	11 U	8.7 U	8.7 U
Anthracene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	0.74 J	1.6 J	2.5 J	10 U	11 UJ	9 UJ	13 U	10 U	11 U	8.7 U	8.7 U
Benzo(a)anthracene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	1.6 J	6.6 J	7.4 J	10 U	11 UJ	9 UJ	0.86 J	10 U	11 U	8.7 U	8.7 U
Benzo(a)pyrene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	1.1 J	5.8 J	11 U	10 U	0.53 J	9 UJ	0.73 J	0.48 J	11 U	8.7 U	8.7 U
Benzo(b)fluoranthene	8.6 U	8.9 UJ	0.85 J	9.7 U	9 U	1.4 J	11 J	11 U	1.3 J	11 UJ	9 UJ	1.3 J	1.1 J	11 U	8.7 U	8.7 U
Benzo(g,h,i)perylene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	0.9 J	5.2 J	3.8 J	10 U	11 UJ	9 UJ	0.74 J	0.51 J	11 U	8.7 U	8.7 U
Benzo(k)fluoranthene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	1.3 J	6.6 J	11 U	1.2 J	0.8 J	9 UJ	1.3 J	0.63 J	11 U	8.7 U	8.7 U
Chrysene	8.6 U	8.9 UJ	1.2 J	9.7 U	9 U	1.6 J	9.3 J	8.2 J	0.8 J	11 UJ	9 UJ	1.3 J	1.1 J	11 U	8.7 U	8.7 U
Dibenz(a,h)anthracene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	13 U	2 J	1.9 J	10 U	11 UJ	9 UJ	13 U	10 U	11 U	8.7 U	8.7 U
Fluoranthene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	4.3 J	14	13	10 U	11 UJ	9 UJ	13 U	10 U	11 U	8.7 U	8.7 U
Fluorene	8.6 U	8.9 UJ	10 U	9.7 U	9 U	0.69 J	12 UJ	0.77 J	10 U	11 UJ	9 UJ	13 U	10 U	11 U	8.7 U	8.7 U
Indeno(1,2,3-cd)pyrene	4 J	8.9 UJ	10 U	9.7 U	9 U	0.91 J	10 J	8.5 J	10 U	0.56 J	9 UJ	0.98 J	0.46 J	11 U	8.7 U	8.7 U
Naphthalene	8.6 U	8.9 U	10 U	9.7 U	9 U	2 J	1.4 J	1.3 J	0.92 J	11 UJ	0.79 J	13 U	10 U	11 U	8.7 U	0.98 J
Phenanthrene	8.6 U	1.4 J	2.1 J	9.7 U	9 U	2.5 J	4 J	7.8 J	10 U	11 UJ	9 UJ	2.1 J	10 U	11 U	8.7 U	8.7 U
Pyrene	8.6 U	0.94 J	0.74 J	9.7 U	9 U	2.1 J	15	11	10 U	0.92 J	9 UJ	1.4 J	0.71 J	11 U	8.7 U	8.7 U
Pesticides (µg/kg)																
4,4'-DDD	3.4 UJ	3.5 UJ	4.1 U	3.8 U	3.6 U	5 U	8.7	34	4.1 U	4.4 U	3.6 U	5 U	4 U	4.2 U	3.5 U	3.5 U
4,4'-DDE	3.4 UJ	3.5 UJ	17	3.8 U	3.6 U	5 U	28	58	4.1 U	4.4 U	3.6 U	5 U	4 U	4.2 U	3.5 U	3.5 U
4,4'-DDT	3.4 UJ	6.2 J	1.8 J	2.1 J	3.6 U	5 U	7.8	7.5	4.1 U	4.4 U	3.6 U	5 U	4 U	4.2 U	3.5 U	3.5 U
Aldrin	1.8 UJ	1.8 UJ	2.1 U	2 U	1.8 U	2.6 U	2.4 U	1.5 J	2.1 U	2.3 U	1.8 U	0.27 J	2.1 U	2.2 U	1.8 U	0.24 J
alpha-BHC	1.8 UJ	1.8 UJ	2.1 U	2 U	1.8 U	0.96 J	2.4 U	2.2 U	2.1 U	2.3 U	1.8 U	2.6 U	2.1 U	2.2 U	1.8 U	1.8 U
alpha-Chlordane	1.8 UJ	0.86 J	2.1 U	2 U	1.8 U	1.3 J	2.4 U	2.2 U	2.1 U	2.3 U	1.8 U	2.6 U	1.7 J	2.2 U	1.8 U	1.8 U
beta-BHC	1.8 UJ	2.3 N	1.6 J	3.5 U	1.5 J	2.6 U	2.4 U	2.2 U	1.1 U	1.1 U	0.93 U	1.3 U	1.1 J	1.1 U	0.9 U	0.9 U
delta-BHC	1.8 UJ	1.8 UJ	2.1 U	2 U	1.8 U	0.4 J	2.4 U	2.2 U	2.1 U	2.3 U	1.8 U	2.6 U	2.1 U	2.2 U	0.22 J	1.8 U
Dieldrin	3.4 UJ	3.5 UJ	4.1 U	3.8 U	3.6 U	5 U	4.6 U	3.1 J	4.1 U	4.4 U	0.46 J	5 U	1.4 J	4.2 U	3.5 U	3.5 U
Endosulfan I	1.8 UJ	1.8 U	2.1 U	2 U	1.8 U	2.6 U	1.3 J	2.2 U	2.1 U	2.3 U	1.1 J	2.6 U	1.6 J	2.2 U	1.8 U	1.8 U
Endosulfan II	3.4 UJ	3.5 UJ	4.1 U	3.8 U	3.6 U	5 U	0.93 J	4.3 U	4.1 U	4.4 U	3.6 U	5 U	4 U	4.2 U	3.5 U	3.5 U
Endosulfan sulfate	3.4 UJ	3.5 UJ	4.1 U	3.8 U	3.6 U	5 U	4.6 U	4.3 U	4.1 U	20	2 J	5 U	1.4 J	4.4 U	3.5 U	3.2 J
Endrin	3.4 UJ	3.5 UJ	4.1 U	3.8 U	3.6 U	5 U	4.6 U	4.3 U	4.1 U	3.5 J	3.6 U	5 U	4 U	4.2 U	3.5 U	3.5 U
Endrin aldehyde	3.4 UJ	0.58 J	4.1 U	3.8 U	0.7 J	5 U	1 J	0.79 J	4.1 U	4.4 U	3.6 U	5 U	4 U	4.2 U	3.5 U	3.5 U
Endrin ketone	3.4 UJ	3.5 U	4.1 U	3.8 U	3.6 U	5 U	2.2 J	4.3 U	4.1 U	5.4 U	3.6 U	5 U	4 U	4.2 U	3.5 U	3.5 U
gamma-BHC (Lindane)	1.8 UJ	1.8 UJ	2.1 U	2 U	1.8 U	2.6 U	2.4 U	2.2 U	2.1 U	2.3 U	1.8 U	2.6 U	2.1 U	2.2 U	1.8 U	1.8 U
gamma-Chlordane	1.8 UJ	1.8 UJ	2.1 U	2 U	1.8 U	2.6 U	2.4 U	2.2 U	2.1 U	2.3 U	1.8 U	2.6 U	2.1 U	2.2 U	1.8 U	1.8 U
Heptachlor	1.8 UJ	1.8 UJ	2.1 U	2 U	1.8 U	0.75 J	2.4 U	2.2 U	0.26 J	0.48 J	1.8 U	2.6 U	0.39 J	0.47 J	1.8 U	1.8 U
Heptachlor epoxide	1.8 UJ	1.8 UJ	0.24 J	2 U	1.8 U	0.65 J	1.6 J	2.2 U	2.1 U	2.3 U	1.8 U	2.6 U	2.1 U	2.2 U	1.8 U	1.8 U
Methoxychlor	18 UJ	18 UJ	21 U	20 U	18 U	26 U	24 U	22 U	21 U	23 U	18 U	26 U	21 U	22 U	18 U	18 U
Metals (mg/kg)																
Aluminum	NS	NS	NS	NS	NS	NS	4,520	2,890	501	1,900	7,050	442	7,700	733	367	1,170
Antimony	NS	NS	NS	NS	NS	NS	2.1 J-	2.1 J-	1.2 U	1.4	1.1 U	1.7	1.4	1.3 U	1.1	1 U
Arsenic	NS	NS	NS	NS	NS	NS	1.4	0.9 J	1.2 U	1.3 U	1.1 U	1.5 U	0.56 J	1.3 U	1 U	1 U
Barium	NS	NS	NS	NS	NS	NS	13.3 J	8.7 J	11.8 J	3.8 J	8.8 J	5.1 J	13.4 J	1.5 J	1.7 J	8 J
Beryllium	NS	NS	NS	NS	NS	NS	0.13 J	0.09 J	0.6 U	0.67 U	0.06 J	0.75 U	0.61 U	0.63 U	0.52 U	0.51 U
Cadmium	NS	NS	NS	NS	NS	NS	0.51 J	0.21 J	0.6 U	0.67 U	0.54 U	0.75 U	0.61 U	0.63 U	0.52 U	0.51 U
Calcium	NS	NS	NS	NS	NS	NS	20,900	3,060	603 U	669 U	539 U	3,960	1,840	629 U	524 U	510 U
Chromium	0.57 B	3.1	2.4	1.1 U	5.5	1.5 U	8	4.9	1.2 J	1.8	6.4	1.2 J	6.1	1.5	0.83 J	1.7
Chromium (hexavalent)	2.06 U	2.14 U	2.5 U	2.32 U	2.18 U	3.03 U	2.79 U	2.58 U	2.51 U	2.68 U	2.18 U	3.01 U	2.45 U	2.54 U	2.1 U	2.1 U
Chromium III and compounds	0.577	3.11	2.37	0.5	5.55	1.08	8.08	4.9	1.19	1.87	6.32	1.22	6	1.52	0.828	1.68
Cobalt	NS	NS	NS	NS	NS	NS	0.47 J	0.59 U	0.6 U	0.67 U	0.54 U	0.75 U	0.61 U	0.63 U	0.52 U	0.51 U
Copper	NS	NS	NS	NS	NS	NS	41	28.8	0.73	0.67 U	1.2	12.8	2.4	0.72	0.52 U	0.51 U
Iron	NS	NS	NS	NS	NS	NS	5,570	3,000	213	996	2,040	439	5,990	273	273	903
Lead	NS	NS	NS	NS	NS	NS	48.3	54.6	1.9	3.5	5.3	4.9	7.1	2.4	0.91	3.8
Magnesium	NS	NS	NS	NS	NS	NS	829	592 U	603 U	669 U	539 U	752 U	612 U	629 U	524 U	510 U
Manganese	NS	NS	NS	NS	NS	NS	35.3	8.2	2.1	3.5	5.8	4.9	5.4	2.7	1.8	7.4
Mercury	NS	NS	NS	NS	NS	NS	0.13	0.21	0.041 U	0.021 J	0.035 J	0.024 J	0.041	0.01 J	0.035 U	0.035 U
Nickel	NS	NS	NS	NS	NS	NS	3.1	1.5	0.34 J	0.59 J	1.3	0.75 J	1.3	0.38 J	0.19 J	0.43 J
Potassium	NS	NS	NS	NS	NS	NS	670 U	60.6 J	603 U	669 U	539 U	752 U	612 U	629 U	524 U	510 U
Selenium	NS	NS	NS	NS	NS	NS	0.67 U	0.59 U	0.6 U	0.67 U	0.32 J	0.53 J	0.7	0.63 U	0.52 U	0.51 U
Sodium	NS	NS	NS	NS	NS	NS	688	592 U	603 U	669 U	539 U	752 U	612 U	629 U	524 U	510 U
Vanadium	NS	NS	NS	NS	NS	NS	10.6	6.3	1 J	2.4 J	8.6	1.2 J	8.5	1.7 J	0.68 J	2.7
Zinc	NS	NS	NS	NS	NS	NS	59.7	33.4	1.1 J	3	6.3	7.7	3.2	1.5 J	0.9 J	1.8 J

Notes:

B - Analyte not detected above the level reported in blanks
J- - Analyte present. Value may be biased low.
J - Analyte present. Value may or may not be accurate or precise
J+ - Analyte present. Value may be biased high.
mg/kg - Milligrams per kilogram
N - Tentative Identification. Consider Present.
NS - Not sampled
U - The material was analyzed for, but not detected
µg/kg - Micrograms per kilogram
UJ - Analyte not detected, quantitation limit may be inaccurate
Shading indicates detection

TABLE 5-1
Surface Soil Analytical Results - Undeveloped Areas
Expanded Soil Background Study
MCB CamLej, North Carolina

Station ID	BASE-BG60	BASE-BG61		BASE-BG62	BASE-BG63	BASE-BG64	BASE-BG65	BASE-BG66	BASE-BG67	BASE-BG68	BASE-BG69	BASE-BG70
Sample ID	BBG-SS60-0-1-10B	BBG-SS61-0-1-10B	BBG-SS61D-0-1-10B	BBG-SS62-0-1-10B	BBG-SS63-0-1-10B	BBG-SS64-0-1-10B	BBG-SS65-0-1-10B	BBG-SS66-0-1-10B	BBG-SS67-0-1-10B	BBG-SS68-0-1-10B	BBG-SS69-0-1-10B	BBG-SS70-0-1-10B
Sample Date	5/12/10	5/18/10	5/18/10	5/13/10	5/18/10	5/20/10	5/20/10	5/20/10	5/18/10	5/20/10	5/20/10	5/20/10
Chemical Name												
Polycyclic Aromatic Hydrocarbons (µg/kg)												
2-Methylnaphthalene	9.1 U	9 U	8.9 U	4 J	8.8 U	9.1 UJ	9.7 UJ	17 UJ	2.1 J	9.8 U	9.7 UJ	8.5 UJ
Acenaphthene	9.1 U	9 U	8.9 U	27 U	8.8 U	9.1 UJ	9.7 UJ	17 UJ	1.5 J	9.8 U	9.7 UJ	8.5 UJ
Acenaphthylene	9.1 U	9 U	8.9 U	4.6 J	8.8 U	9.1 UJ	9.7 UJ	17 UJ	18 U	9.8 U	9.7 UJ	8.5 UJ
Anthracene	9.1 U	9 U	8.9 U	27 U	8.8 U	9.1 U	9.7 U	17 U	3.4 J	9.8 U	9.7 U	8.5 U
Benzo(a)anthracene	9.1 U	9 U	8.9 U	5.4 J	0.69 J	9.1 U	9.7 U	17 U	6.3 J	0.68 J	9.7 U	8.5 U
Benzo(a)pyrene	9.1 U	9 U	8.9 U	7.8 J	0.43 J	9.1 U	9.7 U	17 U	5.7 J	9.8 U	9.7 U	8.5 U
Benzo(b)fluoranthene	9.1 U	9 U	8.9 U	15 J	0.96 J	0.81 J	9.7 U	17 U	7.8 J	1.6 J	9.7 U	8.5 U
Benzo(g,h,i)perylene	9.1 U	9 U	8.9 U	27 U	0.46 J	9.1 U	9.7 U	17 U	2.3 J	9.8 U	9.7 U	8.5 U
Benzo(k)fluoranthene	9.1 U	9 U	8.9 U	8.3 J	0.7 J	0.66 J	9.7 U	17 U	4.7 J	0.61 J	9.7 U	8.5 U
Chrysene	9.1 U	9 U	8.9 U	8.5 J	1 J	9.1 U	9.7 U	17 U	9.8 J	1.3 J	9.7 U	8.5 U
Dibenz(a,h)anthracene	9.1 U	9 U	8.9 U	27 U	8.8 U	9.1 U	9.7 U	17 U	18 U	9.8 U	9.7 U	8.5 U
Fluoranthene	9.1 U	9 U	8.9 U	14 J	1.6 J	9.1 U	9.7 U	17 U	22	9.8 U	9.7 U	8.5 U
Fluorene	9.1 U	9 U	8.9 U	27 U	8.8 U	9.1 UJ	9.7 UJ	17 UJ	1.1 J	9.8 U	9.7 UJ	8.5 UJ
Indeno(1,2,3-cd)pyrene	9.1 U	9 U	8.9 U	7.5 J	0.48 J	9.1 U	9.7 U	17 U	11 J	5.1 J	9.7 U	8.5 U
Naphthalene	9.1 U	9 U	0.8 J	5.3 J	0.91 J	9.1 UJ	9.7 UJ	17 UJ	5.1 J	1.5 J	1.1 J	8.5 UJ
Phenanthrene	9.1 U	9 U	8.9 U	10 J	2 J	2 J	9.7 U	17 U	7.6 J	2.4 J	9.7 U	8.5 U
Pyrene	9.1 U	9 U	8.9 U	12 J	0.99 J	9.1 U	9.7 U	17 U	17 J	1.3 J	9.7 U	8.5 U
Pesticides (µg/kg)												
4,4'-DDD	3.6 U	3.6 U	0.63 J	11 U	3.5 U	3.6 U	3.8 U	6.6 U	170	3.9 U	3.8 U	3.4 U
4,4'-DDE	3.6 U	3.6 U	3.5 U	11 U	0.6 J	3.6 U	3.8 U	6.6 U	410	3.9 UJ	3.8 U	3.4 U
4,4'-DDT	0.82 J	3.6 U	3.5 U	11 U	3.5 U	3.6 U	3.8 U	6.6 U	47 J	3.9 U	3.8 U	3.4 U
Aldrin	1.9 U	1.8 U	1.8 U	5.5 U	0.4 J	1.9 U	2 U	3.4 U	1.2 J	2 UJ	2 U	1.7 U
alpha-BHC	0.43 J	1.8 U	1.8 U	5.5 U	1.8 U	1.9 U	2 U	3.4 U	3.8 U	2 UJ	2 U	1.7 U
alpha-Chlordane	1.9 U	1.8 U	1.8 U	5.5 U	1.8 U	1.9 U	2 U	3.4 U	3.8 UJ	2 U	2 U	1.7 U
beta-BHC	0.94 U	1.8 U	1.8 U	5.5 U	1.8 U	1.9 U	2 U	12 U	3.8 U	0.47 J	2 U	1.1 J
delta-BHC	1.9 U	1.8 U	1.8 U	4.5 J	1.8 U	1.9 U	2 U	3.4 U	3.8 U	0.35 J	2 U	1.7 U
Dieldrin	0.49 J	3.6 U	3.5 U	18 U	3.5 U	3.6 U	3.8 U	6.6 U	7.3 UJ	0.57 J	3.8 U	3.4 U
Endosulfan I	1.9 U	1.8 U	1.8 U	5.5 U	1.5 J	1.9 U	2 U	3.4 U	3.8 U	2 U	2 U	1.7 U
Endosulfan II	3.6 U	3.6 U	3.5 U	11 U	3.5 U	3.6 U	3.8 U	6.6 U	7.3 U	3.9 UJ	3.8 U	3.4 U
Endosulfan sulfate	5.1 U	3.6 U	3.5 U	16 U	2.3 J	0.47 J	3.8 U	6.6 U	7.3 U	8.4 J	3.8 U	3.4 U
Endrin	3.6 U	0.4 J	3.5 U	11 U	3.5 U	1.8 J	3.8 U	6.6 U	7.3 UJ	1.1 J	3.8 U	3.4 U
Endrin aldehyde	1.1 J	3.6 U	3.5 U	11 U	3.5 U	3.6 U	3.8 U	6.6 U	4.7 J	1.6 J	0.53 J	3.4 U
Endrin ketone	13	3.6 U	3.5 U	11 U	3.5 U	3.6 U	3.8 U	6.6 U	43 U	6.5 U	3.8 U	3.4 U
gamma-BHC (Lindane)	1.9 U	1.8 U	1.8 U	5.5 U	1.8 U	1.9 U	2 U	3.4 U	3.8 UJ	2 UJ	0.58 J	1.7 U
gamma-Chlordane	1.9 U	1.8 U	1.8 U	5.5 U	1.8 U	1.9 U	2 U	3.4 U	3.8 U	2 U	2 U	1.7 U
Heptachlor	0.23 J	0.23 J	0.2 J	5.5 U	0.36 J	1.9 U	0.45 J	3.4 U	3.8 U	0.37 J	2 U	0.25 J
Heptachlor epoxide	0.2 J	1.8 U	1.8 U	5.5 U	1.8 U	1.9 U	2 U	3.4 U	3.8 U	2 UJ	2 U	1.7 U
Methoxychlor	24 U	12 J	6.5 J	55 U	18 U	19 U	20 U	34 U	38 UJ	20 UJ	20 U	17 U
Metals (mg/kg)												
Aluminum	1,280	3,480	2,350	9,480	2,060	5,150	490	2,240	6,450	235	1,350	72.9
Antimony	1.1 U	1.3 J-	1.5 J-	3.7 J-	1.3 J-	1 J-	1.4 J-	1.9 U	3 J-	1.3 J-	1.3 J-	1.2 J-
Arsenic	1.1 U	1.1 U	1.1 U	2.4 J	1.1 U	1 U	1.1 U	0.84 J	1.3 J	1.2 U	1.2 U	0.95 U
Barium	4.8 J	5.3 J	3.9 J	30.3 J	9.5 J	17.4 J	0.9 J	3.5 J	9.3 J	4.2 J	2.9 J	0.79 J
Beryllium	0.54 U	0.53 U	0.54 U	1.6 U	0.53 U	0.09 J	0.07 J	0.95 U	1.1 U	0.58 U	0.58 U	0.06 J
Cadmium	0.54 U	0.12 J	0.09 J	0.22 J	0.1 J	0.14 J	0.54 U	0.15 J	0.19 J	0.58 U	0.58 U	0.47 U
Calcium	544 U	534 U	536 U	1620 U	596	505 U	544 U	1,780	2,470	583 U	576 U	474 U
Chromium	1.5	3.6	2.6	8.3	2.9	4.3	1.1 U	6.9	8.4	1.2 U	1.9	0.95 U
Chromium (hexavalent)	2.2 U	0.88 J	2.15 U	132	2.13 U	2.2 U	2.33 U	4.01 U	4.46 U	2.36 U	2.33 U	2.05 U
Chromium III and compounds	1.54	2.71	2.68	1.62	2.98	4.3	1.05	6.81	8.48	0.707	1.86	0.696
Cobalt	0.54 U	0.53 U	0.54 U	1.6 U	0.53 U	0.51 U	0.54 U	0.95 U	1.1 U	0.58 U	0.58 U	0.47 U
Copper	0.78	0.58	0.6	15.5	1.1	0.95	0.54 U	1.9	8.4	0.58 U	0.58 U	0.47 U
Iron	327	1,730	1,040	533	1,530	2,900	81.9	2,320	2,760	98.9	1,280	42.8
Lead	2.8	5.1 J+	2.9 J+	22.3	9 J+	3.2	1.3	4.3	26.6 J+	1.8 J+	2.1	1.5
Magnesium	544 U	534 U	536 U	1620 U	531 U	505 U	544 U	1,650	2,120 J	583 U	576 U	474 U
Manganese	4.3	9.2	8	6.1	12.5	51.1	1.1 U	9.8	9.7	2	1.9	1.8
Mercury	0.009 J	0.023 J	0.035 U	0.46 J+	0.024 J	0.028 J	0.011 J	0.025 J	0.054 J	0.039 U	0.017 J	0.011 J
Nickel	0.53 J	1.1	0.84	2	0.71	1.4	0.54 U	2.2	2	0.58 U	0.43 J	0.47 U
Potassium	544 U	534 U	536 U	1620 U	531 U	505 U	544 U	945 U	1120 U	583 U	576 U	474 U
Selenium	0.54 U	0.29 J	0.26 J	4.1	0.37 J	0.27 J-	0.29 J-	0.56 J-	0.61 J	0.58 U	0.58 U	0.47 UJ
Sodium	544 U	534 U	536 U	231 J	531 U	505 U	544 U	7,730	4,840	583 U	64 J	474 U
Vanadium	2.1 J	4.8	3.5	11.2	5	5.4	0.66 J	7.9	11.3	0.57 J	2.4	0.34 J
Zinc	2.5	4.2	4.7	5.8 J	3.9	3.9	1.1 J	8	8.6	2.2 J	1.4 J	0.62 J

Notes:

B - Analyte not detected above the level reported in blanks
J- - Analyte present. Value may be biased low.
J - Analyte present. Value may or may not be accurate or precise
J+ - Analyte present. Value may be biased high.
mg/kg - Milligrams per kilogram
N - Tentative Identification. Consider Present.
NS - Not sampled
U - The material was analyzed for, but not detected
µg/kg - Micrograms per kilogram
UJ - Analyte not detected, quantitation limit may be inaccurate
Shading indicates detection

TABLE 5-2

Subsurface Soil Analytical Results - Undeveloped Areas

Expanded Soil Background Study

MCB CamLej, North Carolina

Station ID	BASE-BG02		BASE-BG05	BASE-BG08	BASE-BG11	BASE-BG12	BASE-BG18	BASE-BG23	BASE-BG24	BASE-BG25	BASE-BG31	BASE-BG32		BASE-BG33	BASE-BG35
Sample ID	BBG-SB02-5-6-10B	BBG-SB02D-5-6-10B	BBG-SB05-7-8-10B	BBG-SB08-6-7-10B	BBG-SB11-11-12-10B	BBG-SB12-2-3-10B	BBG-SB18-12-13-10B	BBG-SB23-1.5-2-10B	BBG-SB24-3-4-10B	BBG-SB25-3-4-10B	BBG-SB31-5-6-10B	BBG-SB32-2.5-3.5-10B	BBG-SB32D-2.5-3.5-10B	BBG-SB33-4-5-10B	BBG-SB35-2-3-10B
Sample Date	5/14/10	5/14/10	5/14/10	5/13/10	5/11/10	5/19/10	5/12/10	5/10/10	5/11/10	5/13/10	5/17/10	5/18/10	5/18/10	5/17/10	5/20/10
Chemical Name															
Polycyclic Aromatic Hydrocarbons (µg/kg)															
Anthracene	0.56 J	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	9.3 U	9.3 UJ
Benzo(a)anthracene	1.2 J	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	9.3 U	9.3 U
Benzo(a)pyrene	1 J	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	9.3 U	9.3 U
Benzo(b)fluoranthene	1.1 J	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	9.3 U	9.3 U
Benzo(g,h,i)perylene	0.66 J	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	9.3 U	9.3 U
Benzo(k)fluoranthene	1 J	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	9.3 U	9.3 U
Chrysene	1 J	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	0.84 J	9.3 U
Dibenz(a,h)anthracene	0.72 J	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	9.3 U	9.3 U
Fluoranthene	10 U	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	9.3 U	9.3 U
Indeno(1,2,3-cd)pyrene	0.78 J	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	4.2 J	9.1 U	9.3 U	9.3 U
Naphthalene	10 U	11 U	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 U	9.1 U	9.3 U	9.3 UJ
Phenanthrene	10 U	1.7 J	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	9.3 U	9.3 UJ
Pyrene	0.93 J	1.2 J	12 U	10 U	10 U	9.3 U	9.9 U	10 U	10 U	8.8 U	10 U	8.9 UJ	9.1 U	0.99 J	9.3 U
Pesticides(µg/kg)															
4,4'-DDD	4.1 U	4.2 U	4.6 UJ	0.98 J	4.1 U	3.7 U	3.9 U	4.1 U	4 U	3.5 U	4 U	3.5 UJ	3.6 UJ	3.7 U	3.7 U
4,4'-DDE	4.1 U	4.2 U	4.6 UJ	0.54 J	4.1 U	3.7 U	3.9 U	4.1 U	4 U	3.5 U	4 U	3.5 UJ	3.6 UJ	0.56 J	3.7 U
4,4'-DDT	4.1 U	4.2 U	4.6 UJ	4 U	4.1 U	3.7 U	3.9 U	4.1 U	4 U	3.5 U	4 U	0.67 J	3.6 UJ	3.7 U	3.7 U
alpha-Chlordane	2.1 U	2.2 U	2.4 UJ	2 U	2.1 U	1.9 U	2 U	2.1 U	2 U	1.8 U	2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U
beta-BHC	2.1 U	2.2 U	2.4 UJ	9	1.8 J	1.9 U	3.2 N	2.1 U	2 U	0.47 J	2 U	1.8 UJ	1.9 UJ	1.9 U	0.96 U
delta-BHC	2.1 U	2.2 U	2.4 UJ	2 U	2.1 U	1.9 U	2 U	2.1 U	2 U	0.25 J	2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U
Dieldrin	4.1 U	4.2 U	4.6 UJ	4 U	4.1 U	3.7 U	3.9 U	4.1 U	4 U	3.5 U	4 U	3.5 UJ	3.6 UJ	3.7 U	3.7 U
Endosulfan I	2.1 U	2.2 U	2.4 UJ	2 U	2.1 U	1.9 U	2 U	2.1 U	2 U	1.8 U	2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U
Endosulfan II	4.1 U	4.2 U	4.6 UJ	4 U	4.1 U	3.7 U	3.9 U	4.1 U	4 U	3.5 U	4 U	3.5 UJ	3.6 UJ	3.7 U	3.7 U
Endosulfan sulfate	4.1 U	4.2 U	4.6 UJ	4 U	4.1 U	3.7 U	3.9 U	4.1 U	4 U	3.5 U	4 U	3.5 UJ	3.6 UJ	3.7 U	3.7 U
Endrin aldehyde	4.1 U	4.2 U	4.6 UJ	4 U	4.1 U	3.7 U	3.9 U	4.1 U	4 U	3.5 U	4 U	3.5 UJ	3.6 UJ	3.7 U	3.7 U
Endrin ketone	4.1 U	4.2 U	4.6 UJ	4 U	4.1 U	3.7 U	3.9 U	4.1 U	4 U	3.5 U	4 U	3.5 UJ	3.6 UJ	3.7 U	3.7 U
Heptachlor	0.3 J	0.35 J	2.4 UJ	2 U	2.1 U	1.9 U	2 U	2.1 U	2 U	0.28 J	2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U
Heptachlor epoxide	2.1 U	2.2 U	2.4 UJ	2 U	2.1 U	1.9 U	2 U	2.1 U	2 U	1.8 U	2 U	1.8 UJ	1.9 UJ	1.9 U	1.9 U
Methoxychlor	21 U	22 U	24 UJ	20 U	21 U	19 U	20 U	21 U	20 U	18 U	20 U	18 UJ	19 UJ	19 U	19 U
Metals (mg/kg)															
Aluminum	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Antimony	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Arsenic	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Barium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Beryllium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Cadmium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Chromium	18	18.9	30.5	13.9	15.4	8.8	9.6	1.4	5.7	3.1	10.4	13.9	15.3	1.6	2
Chromium (hexavalent)	2.2 J	3.13	5.38	1.63 J	1.31 J	2.24 U	2.37 U	2.47 U	2.42 U	2.13 U	2.65	2.16 U	1.24 J	2.23 U	2.25 U
Chromium III and compounds	15.9	15.9	25.1	12.3	14	8.84	9.6	1.36	5.68	3.1	7.75	13.9	14.1	1.56	2
Cobalt	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Copper	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Iron	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Lead	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Magnesium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Manganese	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Mercury	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Nickel	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Potassium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Selenium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Vanadium	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Zinc	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

J- - Analyte present. Value may be biased low.

J - Analyte present. Value may or may not be accurate or precise

J+ - Analyte present. Value may be biased high.

MG/KG - Milligrams per kilogram

N - Tentative Identification. Consider Present.

NS - Not sampled

U - The material was analyzed for, but not detected

µg/kg - Micrograms per kilogram

UJ - Analyte not detected, quantitation limit may be

Shading indicates detection

TABLE 5-2

Subsurface Soil Analytical Results - Undeveloped Areas

Expanded Soil Background Study

MCB CamLej, North Carolina

Station ID	BASE-BG41	BASE-BG43	BASE-BG44	BASE-BG47	BASE-BG48	BASE-BG49	BASE-BG50	BASE-BG53	BASE-BG54	BASE-BG55	BASE-BG56	BASE-BG59	BASE-BG61		BASE-BG63
Sample ID	BBG-SB41-1-2-10B	BBG-SB43-3-4-10B	BBG-SB44-5-6-10B	BBG-SB47-14-15-10B	BBG-SB48-7-8-10B	BBG-SB49-11-12-10B	BBG-SB50-1-2-10B	BBG-SB53-7-8-10B	BBG-SB54-4-5-10B	BBG-SB55-2.5-3-10B	BBG-SB56-3-4-10B	BBG-SB59-9-10-10B	BBG-SB61-6-7-10B	BBG-SB61D-6-7-10B	BBG-SB63-5.5-6.5-10B
Sample Date	5/20/10	5/20/10	5/20/10	5/12/10	5/12/10	5/11/10	5/18/10	5/11/10	5/11/10	5/11/10	5/11/10	5/12/10	5/18/10	5/18/10	5/18/10
Chemical Name															
Polycyclic Aromatic Hydrocarbons (µg/kg)															
Anthracene	10 UJ	8.9 U	9.8 U	12 U	11 UJ	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	10 U
Benzo(a)anthracene	10 U	8.9 U	9.8 U	12 U	1.8 J	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	0.91 J
Benzo(a)pyrene	10 U	8.9 U	9.8 U	12 U	0.86 J	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	10 U
Benzo(b)fluoranthene	10 U	8.9 U	9.8 U	12 U	1.3 J	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	10 U
Benzo(g,h,i)perylene	10 U	8.9 U	9.8 U	12 U	0.66 J	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	10 U
Benzo(k)fluoranthene	10 U	8.9 U	9.8 U	12 U	1.1 J	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	10 U
Chrysene	10 U	8.9 U	9.8 U	12 U	2.8 J	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	1.1 J
Dibenz(a,h)anthracene	10 U	8.9 U	9.8 U	12 U	11 UJ	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	10 U
Fluoranthene	10 U	8.9 U	9.8 U	12 U	3.9 J	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	2.1 J
Indeno(1,2,3-cd)pyrene	10 U	8.9 U	9.8 U	12 U	0.61 J	11 U	4.6 J	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	10 U
Naphthalene	10 U	8.9 U	9.8 U	12 U	11 U	11 U	9.9 U	11 U	10 U	10 UJ	10 U	11 U	9.7 U	1.2 J	10 U
Phenanthrene	10 UJ	8.9 U	9.8 U	3.6 J	3 J	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	2.4 J
Pyrene	10 U	8.9 U	9.8 U	12 U	2.9 J	11 U	9.9 UJ	11 U	10 U	10 UJ	10 U	11 U	9.7 U	9.7 U	2.5 J
Pesticides(µg/kg)															
4,4'-DDD	4 U	3.5 UJ	3.9 UJ	4.8 U	4.2 U	4.3 U	3.9 UJ	4.2 U	4 U	4.1 U	4 U	4.2 U	3.8 U	3.8 U	4 U
4,4'-DDE	4 U	3.5 UJ	3.9 UJ	4.8 U	4.2 U	4.3 U	3.9 UJ	4.2 U	4 U	4.1 U	4 U	4.2 U	3.8 U	3.8 U	4 U
4,4'-DDT	4 U	0.58 J	0.99 J	4.8 U	4.2 U	0.72 J	1.1 J	4.2 U	0.85 J	4.1 U	4 U	4.2 U	3.8 U	3.8 U	0.93 J
alpha-Chlordane	2.1 U	1.8 UJ	2 UJ	2.5 U	2.2 U	2.2 U	2 UJ	0.62 J	2.1 U	2.1 U	2.1 U	6.6	2 U	2 U	2 U
beta-BHC	1 U	1.8 UJ	2 UJ	2.5 U	3.6 N	2.2 U	2 UJ	1.1 U	1 U	1.1 U	1 U	1.1 U	2 U	2 U	2 U
delta-BHC	0.41 J	1.8 UJ	2 UJ	2.5 U	2.2 U	2.2 U	2 UJ	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2 U	2 U	2 U
Dieldrin	4 U	3.5 UJ	3.9 UJ	4.8 U	4.2 U	4.3 U	3.9 UJ	0.69 J	4 U	4.1 U	4 U	1.2 J	3.8 U	3.8 U	4 U
Endosulfan I	2.1 U	1.8 UJ	2 UJ	2.5 U	2.2 U	2.2 U	2 UJ	2 J	2.1 U	2.1 U	2.1 U	2.2 U	2 U	2 U	2 U
Endosulfan II	4 U	3.5 UJ	3.9 UJ	4.8 U	4.2 U	4.3 U	3.9 UJ	0.71 J	4 U	4.1 U	4 U	4.2 U	3.8 U	3.8 U	4 U
Endosulfan sulfate	4 U	3.5 UJ	3.9 UJ	4.8 U	4.2 U	4.3 U	3.9 UJ	4.2 U	4 U	0.67 J	4 U	4.2 U	3.8 U	3.8 U	4 U
Endrin aldehyde	4 U	3.5 UJ	3.9 UJ	4.8 U	4.2 U	4.3 U	3.9 UJ	1.3 J	4 U	4.1 U	4 U	0.52 J	3.8 U	3.8 U	4 U
Endrin ketone	4 U	3.5 UJ	3.9 UJ	4.8 U	4.2 U	4.3 U	3.9 UJ	4.2 U	4 U	4.1 U	4 U	4.2 U	3.8 U	3.8 U	4 U
Heptachlor	2.1 U	1.8 UJ	2 UJ	2.5 U	2.2 U	2.2 U	2 UJ	0.51 J	2.1 U	0.25 J	2.1 U	2.2 U	2 U	2 U	2 U
Heptachlor epoxide	2.1 U	1.8 UJ	2 UJ	0.47 J	2.2 U	2.2 U	2 UJ	2.2 U	2.1 U	2.1 U	2.1 U	2.2 U	2 U	2 U	2 U
Methoxychlor	21 U	18 UJ	20 UJ	25 U	22 U	22 U	20 UJ	120	21 U	21 U	21 U	22 U	20 U	20 U	20 U
Metals (mg/kg)															
Aluminum	NS	NS	NS	NS	NS	NS	NS	5,090	13,500	1,290	12,900	7,570	16,600	13,000	13,200
Antimony	NS	NS	NS	NS	NS	NS	NS	1.2 U	1.2 U	1.2 U	1.2 U	1.3 U	1.5 J-	1.3 J-	1.6 J-
Arsenic	NS	NS	NS	NS	NS	NS	NS	3.9	0.9 J	1.2 U	1.2 U	3.6	0.5 J	1.1 U	1.8
Barium	NS	NS	NS	NS	NS	NS	NS	5.2 J	14.6 J	1.5 J	12.5 J	8.5 J	13.5 J	12.3 J	15.6 J
Beryllium	NS	NS	NS	NS	NS	NS	NS	0.61 U	0.6 U	0.62 U	0.61 U	0.64 U	0.55 U	0.57 U	0.6 U
Cadmium	NS	NS	NS	NS	NS	NS	NS	0.61 U	0.6 U	0.62 U	0.61 U	0.64 U	0.24 J	0.17 J	0.28 J
Chromium	4.8	2	20	21.8	2.2	22.1	5.8	7.1	14.6	2.4	12.7	14.1	13.6	11.5	15.7
Chromium (hexavalent)	2.43 U	2.16 U	2.34 U	2.91 U	2.54 U	1.7 J	2.6	1.31 J	1.26 J	2.49 U	2.76	2.56 U	2.32 U	0.934 J	2.25 J
Chromium III and compounds	4.8	2.05	20	21.8	2.16	20.4	3.23	5.76	13.3	2.36	9.87	14.1	13.6	10.5	13.5
Cobalt	NS	NS	NS	NS	NS	NS	NS	0.61 U	0.6 U	0.62 U	0.61 U	0.64 U	0.59	0.57 U	0.6 U
Copper	NS	NS	NS	NS	NS	NS	NS	0.85	1.1	0.62 U	0.96	1.9	1.4	1.4	1.7
Iron	NS	NS	NS	NS	NS	NS	NS	4,710	6,100	342	3,550	8,280	2,910	2,670	4,470
Lead	NS	NS	NS	NS	NS	NS	NS	4.5	7	2	8.3	6.9	4.8 J+	4.7 J+	6.4 J+
Magnesium	NS	NS	NS	NS	NS	NS	NS	607 U	474 J	622 U	607 U	641 U	552 U	567 U	600 U
Manganese	NS	NS	NS	NS	NS	NS	NS	5.2	7.4	1.5	6	8.5	9	8.4	7.4
Mercury	NS	NS	NS	NS	NS	NS	NS	0.042 U	0.015 J	0.011 J	0.023 J	0.042 U	0.038 U	0.038 U	0.04 U
Nickel	NS	NS	NS	NS	NS	NS	NS	0.76	2.2	0.47 J	1.6	1.3	2.5	2.1	2.2
Potassium	NS	NS	NS	NS	NS	NS	NS	607 U	601 U	622 U	607 U	641 U	729	612	600 U
Selenium	NS	NS	NS	NS	NS	NS	NS	0.67	0.6 U	0.62 U	0.61 U	0.7	0.55 U	0.57 U	0.6 U
Vanadium	NS	NS	NS	NS	NS	NS	NS	13	18.4	1.8 J	19.5	24.9	14.9	13.5	24.5
Zinc	NS	NS	NS	NS	NS	NS	NS	3.2	5.8	1.6 J	3.4	5.5	5.3	4.4	5.4

Notes:

J- - Analyte present. Value may be biased low.

J - Analyte present. Value may or may not be accurate or precise

J+ - Analyte present. Value may be biased high.

MG/KG - Milligrams per kilogram

N - Tentative Identification. Consider Present.

NS - Not sampled

U - The material was analyzed for, but not detected

µg/kg - Micrograms per kilogram

UJ - Analyte not detected, quantitation limit may be

Shading indicates detection

TABLE 5-2

Subsurface Soil Analytical Results - Undeveloped Areas

Expanded Soil Background Study

MCB CamLej, North Carolina

Station ID	BASE-BG64	BASE-BG65	BASE-BG69	BASE-BG70
Sample ID	BBG-SB64-1-2-10B	BBG-SB65-1-2-10B	BBG-SB69-2-3-10B	BBG-SB70-1-2-10B
Sample Date	5/20/10	5/20/10	5/20/10	5/20/10
Chemical Name				
Polycyclic Aromatic Hydrocarbons (µg/kg)				
Anthracene	9.5 U	10 U	10 U	9.3 U
Benzo(a)anthracene	9.5 U	1.1 J	10 U	9.3 U
Benzo(a)pyrene	9.5 U	0.6 J	10 U	9.3 U
Benzo(b)fluoranthene	9.5 U	0.99 J	10 U	9.3 U
Benzo(g,h,i)perylene	9.5 U	10 U	10 U	9.3 U
Benzo(k)fluoranthene	9.5 U	0.76 J	10 U	9.3 U
Chrysene	9.5 U	1.5 J	10 U	9.3 U
Dibenz(a,h)anthracene	9.5 U	10 U	10 U	9.3 U
Fluoranthene	9.5 U	2.1 J	10 U	9.3 U
Indeno(1,2,3-cd)pyrene	9.5 U	5.6 J	10 U	9.3 U
Naphthalene	9.5 UJ	10 UJ	10 UJ	9.3 UJ
Phenanthrene	9.5 U	1.9 J	10 U	9.3 U
Pyrene	9.5 U	2.1 J	10 U	9.3 U
Pesticides(µg/kg)				
4,4'-DDD	3.8 U	4.1 U	4 U	3.7 U
4,4'-DDE	3.8 U	4.1 U	4 U	3.7 U
4,4'-DDT	3.8 U	4.1 U	4 U	3.7 U
alpha-Chlordane	2 U	2.1 U	2.1 U	1.9 U
beta-BHC	2 U	2.1 U	2.1 U	0.89 J
delta-BHC	2 U	2.1 U	0.2 J	1.9 U
Dieldrin	3.8 U	4.1 U	4 U	3.7 U
Endosulfan I	2 U	2.1 U	2.1 U	1.9 U
Endosulfan II	3.8 U	4.1 U	4 U	3.7 U
Endosulfan sulfate	3.8 U	4.1 U	4 U	3.7 U
Endrin aldehyde	3.8 U	4.1 U	4 U	3.7 U
Endrin ketone	3.8 U	4.1 U	4 U	0.41 J
Heptachlor	2 U	2.1 U	2.1 U	1.9 U
Heptachlor epoxide	2 U	2.1 U	0.26 J	1.9 U
Methoxychlor	20 U	21 U	21 U	19 U
Metals (mg/kg)				
Aluminum	3,870	3,220	9,890	2,350
Antimony	1.3 J-	1.5 J-	1.4 J-	1.4 J-
Arsenic	1.1 U	1.2 U	1.9	1.1 U
Barium	15.4 J	2.5 J	8.5 J	3.1 J
Beryllium	0.54 U	0.07 J	0.05 J	0.05 J
Cadmium	0.11 J	0.62 U	0.36 J	0.54 U
Chromium	4.1	4.2	11.2	1.7
Chromium (hexavalent)	2.31 U	2.5 U	2.98	2.25 U
Chromium III and compounds	4.15	4.24	8.26	1.8
Cobalt	0.54 U	0.62 U	0.6 U	0.54 U
Copper	0.75	0.25 J	0.68	0.54 U
Iron	2,700	147	8,410	217
Lead	3.3	2.4	3.7	2.9
Magnesium	544 U	618 U	604 U	540 U
Manganese	25.9	1.2 U	7	1.3
Mercury	0.016 J	0.025 J	0.016 J	0.024 J
Nickel	1.2	0.62 U	3.4	0.54 U
Potassium	544 U	618 U	604 U	540 U
Selenium	0.54 UJ	0.43 J-	1 J-	0.54 UJ
Vanadium	5.6	2.7	14.2	0.94 J
Zinc	3.3	0.88 J	5.2	1.1 J

Notes:

J- - Analyte present. Value may be biased low.

J - Analyte present. Value may or may not be accurate or precise

J+ - Analyte present. Value may be biased high.

MG/KG - Milligrams per kilogram

N - Tentative Identification. Consider Present.

NS - Not sampled

U - The material was analyzed for, but not detected

µg/kg - Micrograms per kilogram

UJ - Analyte not detected, quantitation limit may be

Shading indicates detection

TABLE 5-3
Surface Soil Analytical Results - Developed Areas
Expanded Soil Background Study
MCB CamLej, North Carolina

Station ID	BASE-BG71		BASE-BG72	BASE-BG73	BASE-BG74	BASE-BG75	BASE-BG76	BASE-BG77	BASE-BG78	BASE-BG79	BASE-BG80	BASE-BG81	BASE-BG82		BASE-BG83	BASE-BG84
Sample ID	BBG-SS71-0-1-10B	BBG-SS71D-0-1-10B	BBG-SS72-0-1-10B	BBG-SS73-0-1-10B	BBG-SS74-0-1-10B	BBG-SS75-0-1-10B	BBG-SS76-0-1-10B	BBG-SS77-0-1-10B	BBG-SS78-0-1-10B	BBG-SS79-0-1-10B	BBG-SS80-0-1-10B	BBG-SS81-0-1-10B	BBG-SS82-0-1-10B	BBG-SS82D-0-1-10B	BBG-SS83-0-1-10B	BBG-SS84-0-1-10B
Sample Date	5/19/10	5/19/10	5/19/10	5/14/10	5/14/10	5/17/10	5/19/10	5/13/10	5/13/10	5/13/10	5/12/10	5/18/10	5/21/10	5/21/10	5/13/10	5/14/10
Chemical Name																
Polycyclic Aromatic Hydrocarbons (µg/kg)																
2-Methylnaphthalene	9.1 U	9.1 U	8.6 U	8.6 U	8.6 U	9.8 U	8.6 U	1.3 J	8.9 U	0.92 J	10 U	8.6 U	8.6 UJ	8.6 UJ	0.84 J	8.7 U
Acenaphthylene	9.1 U	9.1 U	8.6 U	8.6 U	8.6 U	9.8 U	8.6 U	1.1 J	8.9 U	8.6 U	10 U	8.6 U	8.6 UJ	8.6 UJ	8.8 U	8.7 U
Anthracene	9.1 U	9.1 U	8.6 U	8.6 U	8.6 U	9.8 U	8.6 U	1.2 J	8.9 U	8.6 U	10 U	8.6 U	8.6 U	8.6 U	8.8 U	8.7 UJ
Benzo(a)anthracene	9.1 U	9.1 U	1.6 J	2.5 J	8.6 U	0.86 J	2.7 J	4.8 J	2.7 J	8.6 U	0.79 J	0.86 J	2.6 J	2.1 J	0.64 J	1.2 J
Benzo(a)pyrene	9.1 U	0.59 J	8.6 U	2.4 J	8.6 U	0.65 J	2.7 J	4.1 J	3.6 J	8.6 U	0.81 J	0.76 J	2.3 J	8.6 U	0.78 J	1.3 J
Benzo(b)fluoranthene	9.1 U	0.69 J	8.6 U	2.7 J	8.6 U	0.84 J	3.5 J	7.9 J	4.2 J	8.6 U	1.4 J	1.4 J	2.5 J	8.6 U	1.4 J	2.1 J
Benzo(g,h,i)perylene	9.1 U	0.76 J	8.6 U	1.2 J	8.6 U	0.5 J	8.6 U	2.3 J	3.2 J	8.6 U	0.66 J	0.59 J	8.6 U	8.6 U	0.54 J	1.4 J
Benzo(k)fluoranthene	9.1 U	0.91 J	8.6 U	2.5 J	0.47 J	0.84 J	2.2 J	6.5 J	4.4 J	0.52 J	0.96 J	0.84 J	2 J	8.6 U	0.9 J	1.5 J
Chrysene	9.1 U	0.75 J	2.1 J	2.5 J	8.6 U	0.93 J	2.9 J	7.5 J	3.9 J	0.67 J	0.98 J	1.3 J	2.4 J	2.3 J	1 J	2.2 J
Dibenz(a,h)anthracene	9.1 U	9.1 U	8.6 U	0.45 J	8.6 U	9.8 U	8.6 U	0.72 J	1.3	8.6 U	10 U	8.6 U	8.6 U	8.6 U	8.8 U	8.7 U
Fluoranthene	9.1 U	9.1 U	3.4 J	4 J	8.6 U	1.6 J	3.6 J	14 J	6 J	8.6 U	2 J	2.4 J	4.4 J	4 J	8.8 U	2.5 J
Indeno(1,2,3-cd)pyrene	9.1 U	0.78 J	8.6 U	1.6 J	0.4 J	0.52 J	8.6 U	3 J	3.6 J	8.6 U	1 J	0.74 J	8.6 U	8.6 U	0.65 J	1.4 J
Naphthalene	9.1 U	9.1 U	1.2 J	8.6 U	8.6 U	1 J	8.6 U	11 U	8.9 U	8.6 U	10 U	8.6 U	8.6 UJ	8.6 UJ	8.8 U	8.7 U
Phenanthrene	9.1 U	9.1 U	2.4 J	1.6 J	8.6 U	1.6 J	2 J	2.7 J	1.6 J	1.8 J	10 U	2.5 J	8.6 U	1.8 J	8.8 U	8.7 UJ
Pyrene	9.1 U	1 J	3.4 J	3.7 J	8.6 U	1.5 J	3.1 J	13	4.9 J	0.76 J	1.9 J	1.8 J	4.2 J	3.4 J	1.1 J	2.2 J
Pesticide (µg/kg)																
4,4'-DDD	3.6 U	3.6 UJ	3.4 U	7.5	3.4 U	3.9 U	3.4 U	4.3 U	3.5 U	3.4 U	2.3 J	3.4 U	3.4 U	3.4 U	3.5 U	5.6
4,4'-DDE	1.4 J	4 J	3.4 U	14	3.4 U	1 J	0.89 J	1.3 J	4	3.4 U	11	3.4 U	0.76 J	0.74 J	0.96 J	34
4,4'-DDT	1.1 J	2.5 J	3.4 U	18	3.4 U	3.9 U	3.4 U	2.7 J	3.5 U	1.4 J	81	3.4 U	0.67 J	0.89 J	3.5 U	16
Aldrin	1.9 U	1.9 UJ	1.8 U	1.8 U	1.8 U	2 U	1.7 U	2.2 U	1.8 U	1.8 U	1.4 J	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
alpha-BHC	1.9 U	1.9 UJ	1.8 U	0.2 J	1.8 U	2 U	1.7 U	0.27 J	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
alpha-Chlordane	1.9 U	1.9 UJ	1.8 U	0.91 J	0.36 J	2 U	1.7 U	2.2 U	1.8 U	1.8 U	6.3 J	1.8 U	1.8 U	1.8 U	0.74 J	0.54 J
beta-BHC	1.9 U	1.9 UJ	1.8 U	1.8 U	0.35 J	2 U	1.7 U	0.66 J	0.92 U	1.8 U	1.1 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Dieldrin	3.6 U	3.6 UJ	3.4 U	0.88 J	1.1 J	3.9 U	3.4 U	4.3 U	3.5 U	3.4 U	4.1 U	3.4 U	3.4 U	3.4 U	3.5 U	3.5 U
Endosulfan I	1.9 U	1.9 UJ	1.8 U	1.8 U	1.8 U	2 U	1.7 U	2.2 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	0.45 J	1.8 U
Endosulfan II	3.6 U	3.6 UJ	3.4 U	3.4 U	3.4 U	17	3.4 U	4.3 U	3.5 U	3.4 U	5.1 U	3.4 U	3.4 U	3.4 U	3.5 U	3.5 U
Endosulfan sulfate	3.6 U	3.6 UJ	3.4 U	3.4 U	1.7 J	3.9 U	3.4 U	4.3 U	3.5 U	2.5 J	4.1 U	3.4 U	3.4 U	3.4 U	3.5 U	3.5 U
Endrin	3.6 U	3.6 UJ	3.4 U	3.4 U	3.4 U	1.9 J	3.4 U	4.3 U	3.5 U	3.4 U	4.1 U	3.4 U	3.4 U	3.4 U	3.5 U	3.5 U
gamma-BHC (Lindane)	1.9 U	1.9 UJ	1.8 U	1.8 U	1.8 U	2 U	1.7 U	2.2 U	1.8 U	1.8 U	2.1 U	1.8 U	0.32 J	1.8 U	1.8 U	1.8 U
gamma-Chlordane	1.9 U	1.9 UJ	1.8 U	1.8 U	0.32 J	2 U	1.7 U	2.2 U	1.8 U	1.8 U	11 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Heptachlor	0.19 J	1.9 UJ	1.8 U	1.8 U	1.8 U	2 U	1.7 U	2.2 U	1.8 U	1.8 U	2.1 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Methoxychlor	19 U	19 UJ	18 U	18 U	18 U	20 U	17 U	22 U	18 U	18 U	21 U	18 U	18 U	18 U	18 U	18 U
Metals (mg/kg)																
Aluminum	12,300	12,100	3,100	4,950	2,690	11,100	3,660	4,290	9,180	1,600	1,980	221	1,650	2,170	3,060	3,530
Antimony	1.3 J-	1.3 J-	1.1 J-	1.2 J-	1.4 J-	1.1 U	1.3 J-	1.9 J-	1.1 U	1.2 J-	1.2 U	1.3 J-	1.1 J-	1.2 J-	1.5 J-	1.2 J-
Arsenic	0.67 J	0.78 J	0.62 J	0.81 J	1 U	1.1 U	1.1	1.3	1.6	1 U	1.2 U	0.98 U	0.96 U	1 U	1 U	0.66 J
Barium	14.4 J	14.1 J	11.7 J	13.2 J	8.4 J	11.2 J	11.1 J	11 J	30.6	5.3 J	4.7 J	1.9 J	6.4 J	7 J	6.9 J	9.2 J
Cadmium	0.26 J	0.27 J	0.12 J	0.14 J	0.09 J	0.17 J	0.14 J	0.18 J	0.53 U	0.07 J	0.61 U	0.49 U	0.08 J	0.1 J	0.07 J	0.13 J
Calcium	577	811	300 J	521 U	513 U	567 U	1,130	650 U	1,460	505 U	1,500	489 U	655	675	1,040	1,170
Chromium	11.7	11.4	3.6	3.8	2.9	10.3	3.5	4.7	11.9	2.2	3.7	0.94 J	2.3	2.6	3.4	4
Chromium (hexavalent)	3.25	1.07 J	2.09 U	2.09 U	2.05 U	1.03 J	2.05 U	2.6 U	2.15 U	2.08 U	2.51 U	2.06 U	2.06 U	2.06 U	1.85 J	2.1 U
Chromium III and compounds	8.45	10.4	3.65	3.86	2.88	9.35	3.49	4.68	11.9	2.19	3.63	0.935	2.26	2.68	1.59	4
Cobalt	0.45 J	0.39 J	0.51 U	0.52 U	0.51 U	0.57 U	0.51 U	0.65 U	0.53 U	0.51 U	0.61 U	0.49 U	0.48 U	0.51 U	0.52 U	0.51 U
Copper	1.6	1.2	0.93	0.72	1.7	0.74	1.2	2	1.3	1.4	1.2	0.17 J	1.1	1.6	0.83	0.65
Iron	4,040	4,050	1,660	1,460	1,010	2,200	1,500	1,940	5,450	500	809	235	1,040	1,280	922	1,900
Lead	8.8	8.4	3.2 J+	6.8 J+	3.6	6.6 J+	6 J+	6.1	15.4	3.4	4.6	2.9	5.2	5	4.6	7.4
Manganese	9.9	9.3	11.7	12.1	8	7.8	16.6	16.2	9.1	8.3	8.4	7.6	11.6	14.2	5.8	6.3
Mercury	0.11 J+	0.11 J+	0.019 J	0.027 J	0.11 J+	0.058	0.018 J	0.071 J+	0.023 J	0.058 J+	0.017 J	0.034 UJ	0.013 J	0.015 J	0.11 J+	0.013 J+
Nickel	1.9	2.1	1.1	1.5	0.9	2	1.2	1.5	2.1	0.68	0.92	0.49 U	0.8	0.98	0.93	1
Potassium	531 U	526 U	507 U	521 U	513 U	567 U	5.2 J	650 U	527 U	505 U	608 U	489 U	481 U	510 U	517 U	506 U
Selenium	0.28 J	0.45 J	0.51 U	0.52 U	0.51 U	0.46 J	0.3 J	0.65 U	0.43 J	0.51 U	0.61 U	0.49 U	0.27 J-	0.51 UJ	0.52 U	0.51 U
Silver	0.53 U	0.53 U	0.51 U	0.52 U	0.51 U	0.57 U	0.51 U	0.65 U	0.53 U	0.51 U	0.05 J	0.49 U	0.48 U	0.51 U	0.52 U	0.51 U
Sodium	67.2 J	78 J	507 U	521 U	56.7 J	567 U	508 U	54.5 J	527 U	47.9 J	608 U	43.3 J	481 U	510 U	50.4 J	61.7 J
Vanadium	14.4	14.7	5.2	5.4	3.4	12.7	4.7	6.3	15.8	2.5	2.9	0.95 J	3.1	3.6	4.2	5.6
Zinc	5.6	4.9	3.7	4.9	1.9 J	3.6	4.1	6.8	11.8	3.3	3.7	0.84 J	3.6	4.6	3.6	2.4

Notes:

J- - Analyte present. Value may be biased low.
J - Analyte present. Value may or may not be accurate or precise
J+ - Analyte present. Value may be biased high.
mg/kg - Milligrams per kilogram
N - Tentative Identification. Consider Present.
U - The material was analyzed for, but not detected
µg/kg - Micrograms per kilogram
UJ - Analyte not detected, quantitation limit may be inaccurate
Shading indicates detection

TABLE 5-3
Surface Soil Analytical Results - Developed Areas
Expanded Soil Background Study
MCB CamLej, North Carolina

Station ID	BASE-BG85	BASE-BG86	BASE-BG87	BASE-BG88	BASE-BG89	BASE-BG90
Sample ID	BBG-SS85-0-1-10B	BBG-SS86-0-1-10B	BBG-SS87-0-1-10B	BBG-SS88-0-1-10B	BBG-SS89-0-1-10B	BBG-SS90-0-1-10B
Sample Date	5/13/10	5/14/10	5/19/10	5/19/10	5/13/10	5/19/10
Chemical Name						
Polycyclic Aromatic Hydrocarbons (µg/kg)						
2-Methylnaphthalene	9.2 U	1.2 J	11 U	9.1 U	9 U	8.7 UJ
Acenaphthylene	9.2 U	9.5 U	11 U	1.2 J	9 U	8.7 UJ
Anthracene	9.2 U	9.5 U	11 U	0.62 J	1.6 J	8.7 U
Benzo(a)anthracene	9.2 U	1.2 J	11 U	2.3 J	22	8.7 U
Benzo(a)pyrene	9.2 U	1.2 J	0.51 J	2.8 J	27	8.7 U
Benzo(b)fluoranthene	9.2 U	2.5 J	0.79 J	3.1 J	36	8.7 U
Benzo(g,h,i)perylene	9.2 U	1.1 J	11 U	2.9 J	19	8.7 U
Benzo(k)fluoranthene	9.2 U	1.6 J	11 U	2.4 J	32	8.7 U
Chrysene	9.2 U	2.1 J	11 U	3.2 J	32	8.7 U
Dibenz(a,h)anthracene	9.2 U	9.5 U	11 U	9.1 U	5.8 J	8.7 U
Fluoranthene	9.2 U	3.7 J	11 U	3.9 J	69	8.7 U
Indeno(1,2,3-cd)pyrene	9.2 U	1.2 J	11 U	6.7 J	23	8.7 U
Naphthalene	9.2 U	9.5 U	1.2 J	1.2 J	9 U	8.7 UJ
Phenanthrene	9.2 U	1.7 J	11 U	2.4 J	13	8.7 U
Pyrene	9.2 U	3 J	0.76 J	3.5 J	52	8.7 U
Pesticide (µg/kg)						
4,4'-DDD	3.7 U	5.6	4.1 UJ	3.1 J	3.6 U	3.5 U
4,4'-DDE	3.7 U	59	4.1 UJ	31 J	3.6 U	3.5 U
4,4'-DDT	3.7 U	12	4.1 UJ	2.1 J	3.6 U	3.5 U
Aldrin	1.9 U	2 U	2.1 UJ	1.9 U	1.8 U	1.8 U
alpha-BHC	1.9 U	2 U	2.1 UJ	1.9 U	1.8 U	1.8 U
alpha-Chlordane	1.9 U	5 J	2.1 UJ	1.9 U	1.8 U	1.8 U
beta-BHC	0.95 U	2 U	2.1 UJ	1.9 U	1.7 N	1.8 U
Dieldrin	3.7 U	150	4.1 UJ	3.6 U	3.6 U	3.5 U
Endosulfan I	1.9 U	2 U	2.1 UJ	1.9 U	1.8 U	1.8 U
Endosulfan II	3.7 U	3.8 U	4.1 UJ	3.6 U	16	20
Endosulfan sulfate	3.7 U	3.8 U	1.2 J	3.6 U	3.6 U	3.5 U
Endrin	3.7 U	1.2 J	4.1 UJ	3.6 U	3.6 U	3.5 U
gamma-BHC (Lindane)	1.9 U	2 U	2.1 UJ	1.9 U	1.8 U	1.8 U
gamma-Chlordane	1.9 U	4.1	0.29 J	1.9 U	1.8 U	1.9 U
Heptachlor	0.22 J	0.37 J	2.1 UJ	1.9 U	1.8 U	1.8 U
Methoxychlor	19 U	20 U	21 UJ	19 U	2.6 J	18 U
Metals (mg/kg)						
Aluminum	6,030	11,300	9,520	12,800	4,250	393
Antimony	1.2	1.4 J-	1.3 J-	1.4 J-	1.1 U	1.2 J-
Arsenic	1.1 U	1.4	1.5	3.2	1.1 U	1 U
Barium	6.8 J	12.5 J	9.3 J	25.8	7.7 J	2.5 J
Cadmium	0.56 U	0.45 J	0.15 J	0.51 J	0.54 U	0.51 U
Calcium	556 U	5,630	147 J	1,860	545 U	515 U
Chromium	5.2	12.6	12.4	16.8	4.4	1.2
Chromium (hexavalent)	2.22 U	2.29 U	4.9	2.19 U	2.18 U	2.1 U
Chromium III and compounds	5.22	12.6	7.56	16.8	4.36	1.16
Cobalt	0.56 U	0.56 U	0.58 U	0.55 U	0.54 U	0.51 U
Copper	0.75	0.77	0.58 U	2.5	0.97	0.51 U
Iron	819	8,640	1,290	9,090	1,970	172
Lead	3.9	8.3	7.6 J+	22.3 J+	3.8	1.5
Manganese	3.1	9.4	6.2	11.9	6.6	2
Mercury	0.025 J	0.028 J+	0.056	0.023 J	0.015 J	0.015 J
Nickel	1.1	1.7	1.3	2.6	1.5	0.24 J
Potassium	556 U	562 U	582 U	548 U	545 U	515 U
Selenium	0.29 J	0.99	0.95	0.27 J	0.54 U	0.51 UJ
Silver	0.56 U	0.56 U	0.58 U	0.55 U	0.54 U	0.51 U
Sodium	556 U	55.9 J	582 U	548 U	545 U	515 U
Vanadium	7.7	22.5	11.8	25.3	5.9	0.97 J
Zinc	2.8	7.9	2.6	15.6	3	0.98 J

Notes:

J- - Analyte present. Value may be biased low.
J - Analyte present. Value may or may not be accurate or precise
J+ - Analyte present. Value may be biased high.
mg/kg - Milligrams per kilogram
N - Tentative Identification. Consider Present.
U - The material was analyzed for, but not detected
µg/kg - Micrograms per kilogram
UJ - Analyte not detected, quantitation limit may be inaccurate
Shading indicates detection

Table 5-4

Subsurface Soil Analytical Results - Developed Areas

Expanded Soil Background Study

MCB CamLej, North Carolina

Station ID	BASE-BG71		BASE-BG72	BASE-BG73	BASE-BG74	BASE-BG75	BASE-BG76	BASE-BG77	BASE-BG78	BASE-BG79	BASE-BG80	BASE-BG81
Sample ID	BBG-SB71-4-5-10B	BBG-SB71D-4-5-10B	BBG-SB72-2-3-10B	BBG-SB73-9-10-10B	BBG-SB74-4-5-10B	BBG-SB75-3.5-4.5-10B	BBG-SB76-6-7-10B	BBG-SB77-2.5-3.5-10B	BBG-SB78-3.5-4.5-10B	BBG-SB79-11-12-10B	BBG-SB80-3-4-10B	BBG-SB81-5-6-10B
Sample Date	5/19/10	5/19/10	5/19/10	5/17/10	5/17/10	5/17/10	5/19/10	5/13/10	5/13/10	5/13/10	5/12/10	5/18/10
Chemical Name												
Polycyclic Aromatic Hydrocarbons (µg/kg)												
2-Methylnaphthalene	10 U	10 U	9.5 U	10 UJ	9 U	9.8 U	10 U	0.85 J	0.86 J	10 U	9.7 U	8.9 U
Anthracene	10 U	10 U	1 J	10 U	9 U	9.8 U	10 U	9.2 U	9.7 U	10 U	9.7 U	8.9 U
Benzo(a)anthracene	10 U	10 U	1.6 J	10 U	9 U	9.8 U	10 U	9.2 U	9.7 U	10 U	9.7 U	8.9 U
Chrysene	10 U	10 U	1.6 J	10 U	9 U	9.8 U	10 U	9.2 U	9.7 U	10 U	9.7 U	8.9 U
Fluoranthene	10 U	10 U	4 J	10 U	9 U	9.8 U	10 U	9.2 UJ	9.7 U	10 U	9.7 U	8.9 U
Naphthalene	10 U	10 U	0.97 J	10 UJ	9 U	9.8 U	10 U	9.2 U	9.7 U	10 U	9.7 U	8.9 U
Phenanthrene	10 U	10 U	4.3 J	10 U	9 U	9.8 U	10 U	9.2 U	9.7 U	10 U	9.7 U	8.9 U
Pyrene	10 U	10 U	3.5 J	10 U	9 U	9.8 U	10 U	9.2 U	9.7 U	10 U	9.7 U	8.9 U
Pesticides (µg/kg)												
4,4'-DDE	4.1 U	4.1 U	3.8 UJ	4.1 U	3.6 U	3.9 U	4 UJ	3.7 U	3.8 U	4 U	2 J	3.5 UJ
4,4'-DDT	4.1 U	0.67 J	3.8 UJ	4.1 U	3.6 U	3.9 U	4 UJ	3.7 U	3.8 U	4 U	2.9 J	3.5 UJ
alpha-BHC	2.1 U	2.1 U	2 UJ	2.1 U	1.8 U	2 U	2 UJ	1.9 U	2 U	2 U	2 U	1.8 UJ
alpha-Chlordane	2.1 U	2.1 U	2 UJ	2.1 U	1.8 U	0.29 J	2 UJ	1.9 U	2 U	2 U	0.34 J	1.8 UJ
delta-BHC	2.1 U	2.1 U	2 UJ	0.25 J	1.8 U	2 U	2 UJ	1.9 U	2 U	2 U	2 U	1.8 UJ
Dieldrin	4.1 U	4.1 U	3.8 UJ	4.1 U	0.86 J	3.9 U	4 UJ	3.7 U	3.8 U	4 U	3.8 U	3.5 UJ
Endosulfan I	2.1 U	2.1 U	2 UJ	2.1 U	1.8 U	2 U	2 UJ	0.32 J	2 U	2 U	2 U	1.8 UJ
Endosulfan II	4.1 U	4.1 U	3.8 UJ	4.1 U	3.6 U	3.9 U	4 UJ	3.7 U	3.8 U	4 U	3.8 U	3.5 UJ
Endrin aldehyde	4.1 U	4.1 U	3.8 UJ	4.1 U	3.6 U	3.9 U	4 UJ	3.7 U	3.8 U	4 U	3.8 U	3.5 UJ
gamma-Chlordane	2.1 U	2.1 U	2 UJ	2.1 U	0.23 J	2 U	2 UJ	1.9 U	2 U	2 U	2 U	1.8 UJ
Heptachlor	0.25 J	2.1 U	2 UJ	0.22 J	1.8 U	2 U	2 UJ	1.9 U	2 U	2 U	0.38 J	1.8 UJ
Metals (mg/kg)												
Aluminum	17,000	22,900	12,100	8,180	7,340	15,300	16,200	4,540	15,300	8,390	1,990	1,400
Antimony	1.6 J-	1.6 J-	1.4 J-	1.3 J-	1.3 J-	1.2 J-	1.2 U	1.2 J-	1.2 U	1.4 J-	1.1 U	1.3 J-
Arsenic	1.6	1.1 J	1.8	0.66 J	1.5	0.77 J	9	0.59 J	1.8	2.1	1.1 U	1.1 U
Barium	37.1	57	12.5 J	14.8 J	9 J	14.2 J	22 J	9.5 J	16.7 J	11.8 J	2 J	2.5 J
Beryllium	0.6 U	0.6 U	0.57 U	0.63 U	0.54 U	0.57 U	0.58 U	0.55 U	0.58 U	0.59 U	0.57 U	0.53 U
Cadmium	0.26 J	0.39 J	0.31 J	0.24 J	0.15 J	0.32 J	1.6	0.16 J	0.47 J	0.19 J	0.57 U	0.07 J
Calcium	602 U	598 U	227 J	626 U	543 U	566 U	159 J	550 U	583 U	586 U	567 U	528 U
Chromium	13	17.4	13	12.6	9.5	15.4	32.3	5.7	21.6	11.2	2.7	2.5
Chromium (hexavalent)	1.22 J	2.51 U	2.22 J	2.74	1.09 J	3.84	1.88 J	2.22 U	0.989 J	1.71 J	2.31 U	2.15 U
Chromium III and compounds	11.8	17.3	10.9	9.77	8.47	11.6	30.3	5.67	20.6	9.53	2.77	2.48
Cobalt	0.8	1.4	0.6	0.63 U	0.54 U	0.57 U	0.58 U	0.55 U	0.58 U	0.35 J	0.57 U	0.53 U
Copper	3.5	4.2	1.6	2.5	2.9	0.71	4.5	1.4	1.3	1.4	0.75	0.28 J
Iron	2,500	3,060	6,390	4,030	2,100	5,670	41,800	2,180	9,760	2,720	1,320	530
Lead	9.2	14.1	5.9 J+	8.8	6.1 J+	9 J+	12.9 J+	4.8	6.7	4.2	1.9	2
Magnesium	602 U	598 U	568 U	626 U	543 U	566 U	660 J	550 U	599	586 U	567 U	528 U
Manganese	9.7	12.6	11.6	6.1	6	9.4	16.6	9.1	10.5	7.5	1.4	4.7
Mercury	0.041 J+	0.082 J+	0.038 U	0.041 U	0.036 U	0.023 J	0.04 U	0.093 J+	0.055 J+	0.1 J+	0.038 U	0.11 J+
Nickel	8.9	14.1	3	1.1	1.2	1.9	2.4	1.4	2.1	1.5	0.6	0.6
Potassium	602 U	738	568 U	626 U	543 U	566 U	1,190	550 U	798	591	567 U	528 U
Selenium	0.6 U	0.6 U	0.43 J	0.63 UJ	0.37 J	0.33 J	1.1	0.55 U	0.58 U	0.59 U	0.57 U	0.53 U
Silver	0.6 U	0.6 U	0.57 U	0.63 U	0.54 U	0.57 U	0.58 U	0.55 U	0.58 U	0.59 U	0.57 U	0.06 J
Sodium	74.9 J	81 J	568 U	626 U	58.5 J	566 U	583 U	56.8 J	61.1 J	59.8 J	567 U	45.4 J
Thallium	1.2 U	1.2 U	1.1 U	1.3 U	1.1 U	1.1 U	1.7	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U
Vanadium	13.7	15.4	18.9	8.5	10.6	15.1	53.4	7.5	27.3	20.6	3.5	2.1 J
Zinc	8	11.8	5.8	3.8	4.3	4	10	2.6	6	4.9	2.6	1.4 J

Notes:

J- - Analyte present. Value may be biased low.

J - Analyte present. Value may or may not be accurate or precise

J+ - Analyte present. Value may be biased high.

mg/kg- Milligrams per kilogram

U - The material was analyzed for, but not detected

µg/kg - Micrograms per kilogram

UJ - Analyte not detected, quantitation limit may be inaccurate

Shading indicates detection

Table 5-4

Subsurface Soil Analytical Results - Developed Areas

Expanded Soil Background Study

MCB CamLej, North Carolina

Station ID	BASE-BG82		BASE-BG83	BASE-BG84	BASE-BG85	BASE-BG86	BASE-BG87	BASE-BG88	BASE-BG89	BASE-BG90
Sample ID	BBG-SB82-2-3-10B	BBG-SB82D-2-3-10B	BBG-SB83-6.5-7.5-10B	BBG-SB84-6-7-10B	BBG-SB85-1.5-2.5-10B	BBG-SB86-3-4-10B	BBG-SB87-3-4-10B	BBG-SB88-2.5-3.5-10B	BBG-SB89-6.5-7.5-10B	BBG-SB90-2-3-10B
Sample Date	5/21/10	5/21/10	5/13/10	5/14/10	5/13/10	5/14/10	5/19/10	5/19/10	5/13/10	5/19/10
Chemical Name										
Polycyclic Aromatic Hydrocarbons (µg/kg)										
2-Methylnaphthalene	9.7 UJ	9.7 UJ	9.8 U	10 U	10 U	9.9 U	11 U	11 U	9.2 U	9.9 UJ
Anthracene	9.7 U	9.7 U	9.8 U	10 U	10 U	9.9 U	11 U	11 U	9.2 U	9.9 U
Benzo(a)anthracene	9.7 U	9.7 U	9.8 U	10 U	10 U	9.9 U	11 U	11 U	9.2 U	9.9 U
Chrysene	9.7 U	9.7 U	9.8 U	10 U	10 U	9.9 U	11 U	11 U	9.2 U	9.9 U
Fluoranthene	9.7 U	9.7 U	9.8 U	10 U	10 U	9.9 U	11 U	11 U	9.2 U	9.9 U
Naphthalene	9.7 UJ	9.7 UJ	9.8 U	10 U	10 U	9.9 U	11 U	11 U	9.2 U	0.89 J
Phenanthrene	9.7 U	9.7 U	9.8 U	10 U	10 U	9.9 U	11 U	11 U	9.2 U	9.9 U
Pyrene	9.7 U	9.7 U	9.8 U	10 U	10 U	0.68 J	11 U	11 U	9.2 U	9.9 U
Pesticides (µg/kg)										
4,4'-DDE	3.8 U	3.8 U	3.9 UJ	0.47 J	4 U	0.54 J	4.5 U	0.98 J	3.7 U	3.9 U
4,4'-DDT	3.8 U	3.8 U	3.9 UJ	4 UJ	4 U	2.7 J	4.5 U	4.5 U	3.7 U	3.9 U
alpha-BHC	2 U	2 U	2 UJ	2.1 UJ	2 U	2 U	0.27 J	2.3 U	1.9 U	2 U
alpha-Chlordane	2 U	2 U	2 UJ	2.1 UJ	2 U	0.38 J	0.28 J	2.3 U	1.9 U	2 U
delta-BHC	2 U	2 U	2 UJ	2.1 UJ	2 U	0.4 J	2.3 U	2.3 U	1.9 U	2 U
Dieldrin	3.8 U	3.8 U	3.9 UJ	4 UJ	4 U	1.3 J	4.5 U	4.5 U	3.7 U	3.9 U
Endosulfan I	2 U	2 U	2 UJ	2.1 UJ	2 U	2 U	2.3 U	2.3 U	1.9 U	2 U
Endosulfan II	3.8 U	3.8 U	3.9 UJ	4 UJ	0.47 J	3.9 U	4.5 U	4.5 U	3.7 U	3.9 U
Endrin aldehyde	3.8 U	3.8 U	3.9 UJ	4 UJ	4 U	3.9 U	0.52 J	4.5 U	3.7 U	3.9 U
gamma-Chlordane	2 U	2 U	2 UJ	2.1 UJ	2 U	2 U	0.26 J	2.3 U	1.9 U	2 U
Heptachlor	2 U	0.36 J	2 UJ	2.1 UJ	0.39 J	2 U	2.3 U	2.3 U	1.9 U	0.27 J
Metals (mg/kg)										
Aluminum	15,200	9,620	8,680	8,000	6,090	9,230	25,600	16,500	5,720	2,510
Antimony	1.4 J-	1.3 J-	1.4 J-	1.7 J-	1.5 J-	0.79 J-	1.6 J-	1.4 J-	1.1	1.5 J-
Arsenic	1.7	0.88 J	1.1 U	1.1 J	1.2 U	4.1	2	6	5.6	1.2 U
Barium	25.4	16.7 J	8 J	8.3 J	6 J	9.6 J	21.1 J	20.6 J	11.5 J	4.4 J
Beryllium	0.08 J	0.08 J	0.56 U	0.61 U	0.6 U	0.58 U	0.65 U	0.66 U	0.54 U	0.59 U
Cadmium	0.31 J	0.24 J	0.18 J	0.15 J	0.1 J	0.61	0.57 J	0.46 J	0.54 U	0.59 U
Calcium	773	570 U	560 U	674	603 U	684	202 J	662 U	542 U	591 U
Chromium	14.8	9.4	8.3	10.4	6.1	12.9	28.2	23.6	8.6	3.6
Chromium (hexavalent)	2.27 J	5.1	1.52 J	2.45 U	4.4	2.45	2.72 U	1.98 J	2.23 U	2.39 U
Chromium III and compounds	12.6	4.4	6.84	10.4	1.64	10.4	28.2	21.6	8.59	3.58
Cobalt	0.44 J	0.32 J	0.56 U	0.31 J	0.6 U	0.58 U	0.46 J	0.66 U	0.54 U	0.59 U
Copper	2.7	2.6	0.59	1.1	0.92	5	0.9	1.6	1.1	0.68
Iron	6,460	4,290	1,480	2,320	880	15,700	8,310	9,690	3,030	416
Lead	4.6	3.7	3.4	5.1	3.2	5.6	9.3 J+	9.3 J+	5.4	2.3
Magnesium	578 U	570 U	560 U	612 U	603 U	579 U	820 J	662 U	542 U	591 U
Manganese	7.1	4.6	5.5	7	7.6	7.8	12.2	10.5	4.5	1.5
Mercury	0.025 J	0.032 J	0.089 J+	0.013 J+	0.049 J+	0.013 J+	0.037 J	0.045 U	0.037 U	0.014 J
Nickel	3.7	2.3	1.7	1.6	0.93	1.6	3.7	2.3	0.98	0.76
Potassium	578 U	570 U	560 U	612 U	603 U	579 U	930	662 U	542 U	591 U
Selenium	0.58 UJ	0.45 J-	0.56 U	0.61 U	0.38 J	0.58 U	0.96	0.59 J	0.29 J	0.59 U
Silver	0.58 U	0.57 U	0.56 U	0.61 U	0.6 U	0.58 U	0.65 U	0.66 U	0.54 U	0.59 U
Sodium	578 U	570 U	56.5 J	66.8 J	53.3 J	61.4 J	648 U	662 U	542 U	591 U
Thallium	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.2 U	1.3 U	1.3 U	1.1 U	1.2 U
Vanadium	16.8	10.8	7.8	10.5	6.7	15.8	39.4	56.8	14.5	1.9 J
Zinc	4.8	12.3	2.5	2.6	2 J	3.9	9.3	6.7	2.6	1.3 J

Notes:

J- - Analyte present. Value may be biased low.

J - Analyte present. Value may or may not be accurate or precise

J+ - Analyte present. Value may be biased high.

mg/kg- Milligrams per kilogram

U - The material was analyzed for, but not detected

µg/kg - Micrograms per kilogram

UJ - Analyte not detected, quantitation limit may be inaccurate

Shading indicates detection

TABLE 5-5
Surface Soil Grain Size Analysis Results
Expanded Soil Background Study
MCB CamLej, North Carolina

Sample ID	BBG-SS02-0-1-10B	BBG-SS05-0-1-10B	BBG-SS08-0-1-10B	BBG-SS11-0-1-10B	BBG-SS12-0-1-10B	BBG-SS18-0-1-10B	BBG-SS23-00-01-10B	BBG-SS24-0-1-10B	BBG-SS25-0-1-10B	BBG-SS31-0-1-10B	BBG-SS32-0-1-10B	BBG-SS33-0-1-10B	BBG-SS35-0-1-10B	BBG-SS41-0-1-10B	BBG-SS43-0-1-10B	BBG-SS44-0-1-10B
Sample Date	5/14/10	5/14/10	5/13/10	5/11/10	5/19/10	5/12/10	5/10/10	5/11/10	5/13/10	5/17/10	5/18/10	5/17/10	5/20/10	5/20/10	5/20/10	5/20/10
Grain Size (PCT/P)																
Sieve No. 005 (4-mm)	98.8	95.5	97.9	100	100	99.9	97.3	100	100	98.5	100	100	100	100	100	100
Sieve No. 010 (2.00 mm)	83.8	92.8	74.2	99.7	89	99.3	88.6	99.7	99.8	92.7	99.8	99.8	99.8	99.4	99.9	98.8
Sieve No. 020 (850 um)	69.6	88.4	59.6	99.5	76.1	98.2	77.6	98.5	99	84	98.4	99.6	99.6	97.4	99.4	97.4
Sieve No. 040 (425 um)	60.1	84.9	52.2	98.8	68.1	97.2	70	93.4	95.2	77	90.4	99.2	98.6	94.9	96.8	96.3
Sieve No. 060 (250 um)	49.5	74	46.5	92	63	88.3	59.7	69.7	86	71.7	68	90.5	83	77.1	81.8	94.1
Sieve No. 080 (180 um)	33.8	41.8	38	63.5	51.5	32.9	44.3	29.3	54.8	66.3	24.6	47.7	43.6	42.1	45.5	66.5
Sieve No. 100 (150 um)	27.5	28	33.8	46.4	44.3	19.2	34.5	18	37.1	63.8	15.6	25.5	22.4	24.4	26.8	45.6
Sieve No. 200 (75 um)	11.9	13.2	15.8	4.3	14.9	9.1	9.3	4.7	6.2	32.5	2.9	1.1	2	4.1	2	15.7
Sieve No. 230 (63-um)	8.9	11.2	10.4	3.3	10.3	6.1	6.7	3.5	3.9	17.2	2.3	0.83	1.5	2.2	1.3	10.9
Particle Size Parameters																
D10	0.067	0.056	0.062	0.085	0.062	0.082	0.077	0.105	0.084	0.057	0.117	0.102	0.104	0.097	0.099	0.061
D30	0.162	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
D60	0.42	0.22	0.88	0.17	0.23	0.21	0.26	0.23	0.19	0.14	0.24	0.20	0.21	0.22	0.21	0.17
Cu	6.3	3.9	14.2	2.0	3.7	2.6	3.3	2.2	2.3	2.5	2.0	2.0	2.0	2.2	2.1	2.8
Cs	0.9	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Soil Classification	**SP-SC**	**SM**	**SC**	**SP**	**SC**	**SP-SM**	**SP-SM**	**SP**	**SP-SM**	**SM**	**SP**	**SP**	**SP**	**SP**	**SP**	**SC**

Notes:

- PCT/P - Percent Passed
- D10 - diameter of soil particles corresponding to 10% finer
- D30 - diameter of soil particles corresponding to 30% finer, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5
- D60 - diameter of soil particles corresponding to 60% finer
- Cu - coeficient of uniformity = D60/D10
- Cs - coefficient of gradation, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5 = $D30^2$/(D60*D10)
-NC - not calculated
USCS - Unified Soil Classification System

USCS Classification

than 6, and CS is between 1 and 3
- SP - poorly-graded sand, if PCT/P Sieve No. 200 is less than 5%, Cu and Cs are not within range of SW
- SM - silty sand, if PCT/P Sieve No. 200 is greater than 12%, silt characterization was field determined
- SC - clayey sand, if PCT/P Sieve No. 200 is greater than 12%, clay characterization was field determined
- Dual classification if PCT/P Sieve No. 200 is between 5% and 12%

TABLE 5-5
Surface Soil Grain Size Analysis Results
Expanded Soil Background Study
MCB CamLej, North Carolina

Sample ID	BBG-SS47-0-1-10B	BBG-SS48-0-1-10B	BBG-SS49-0-1-10B	BBG-SS50-0-1-10B	BBG-SS51-0-1-10B	BBG-SS52-0-1-10B	BBG-SS53-0-1-10B	BBG-SS54-0-1-10B	BBG-SS55-00-01-10B	BBG-SS56-0-1-10B	BBG-SS57-0-1-10B	BBG-SS58-0-1-10B	BBG-SS59-0-1-10B	BBG-SS60-0-1-10B	BBG-SS61-0-1-10B	BBG-SS62-0-1-10B
Sample Date	5/12/10	5/12/10	5/11/10	5/11/10	5/19/10	5/11/10	5/11/10	5/11/01	5/11/10	5/11/10	5/12/10	5/12/10	5/12/10	5/12/10	5/18/10	5/13/10
Grain Size (PCT/P)																
Sieve No. 005 (4-mm)	96.3	100	100	98.3	98.4	100	98.6	100	100	100	100	99.9	100	99.8	99.1	92.9
Sieve No. 010 (2.00 mm)	94.9	99.9	92.1	93.9	89.6	99.8	97.1	95	100	92.1	99.3	96.8	99.5	98.8	98	71.7
Sieve No. 020 (850 um)	93.2	99.7	81	89.3	80.9	99	94.3	88	99	80.6	97.3	93.3	98.3	97.2	96.2	48.2
Sieve No. 040 (425 um)	90.2	98.7	73.9	84.7	75	96	91.1	78.1	97	68.6	91.4	89	96.8	95.2	94.7	30.8
Sieve No. 060 (250 um)	76.4	90.8	67	75.3	65.4	87.6	24.3	49.7	82.3	51	71.4	65.5	90.8	89.2	88.8	16.7
Sieve No. 080 (180 um)	45.8	59.8	53.5	51.9	49.8	64.5	10.1	21.8	44.3	32	32.9	28	61	51.6	57.6	8.3
Sieve No. 100 (150 um)	27.8	40.4	46.6	36.5	39.5	47	6.4	15.9	28.8	26.1	17.9	16.7	47.6	30.7	37.5	5.8
Sieve No. 200 (75 um)	3.5	5.6	10.7	5.6	8.4	10.7	1.4	6	5.4	9	2.4	5.2	10.6	6	14.3	2.2
Sieve No. 230 (63-um)	2.3	4.4	6.6	4.2	5.6	7.7	1.2	4.4	4.1	6.4	2	4	6.4	4.3	10	2
Particle Size Parameters																
D10	0.095	0.084	0.073	0.086	0.079	0.072	0.179	0.105	0.090	0.079	0.112	0.106	0.073	0.087	0.063	0.194
D30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.415
D60	0.21	0.18	0.21	0.20	0.23	0.17	0.34	0.31	0.21	0.34	0.23	0.24	0.18	0.20	0.19	1.43
Cu	2.2	2.1	2.9	2.4	2.9	2.4	1.9	3.0	2.3	4.3	2.1	2.3	2.4	2.2	2.9	7.4
Cs	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.6
Soil Classification	**SP**	**SP-SM**	**SP-SM**	**SP-SM**	**OL-OH**	**SP-SM**	**SP**	**SP-SM**	**SP-SM**	**SP-SM**	**SP**	**SP-SM**	**SP-SM**	**SP-SM**	**SM**	**OH-OL**

Notes:

- PCT/P - Percent Passed
- D10 - diameter of soil particles corresponding to 10% finer

- D30 - diameter of soil particles corresponding to 30% finer, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5
- D60 - diameter of soil particles corresponding to 60% finer
- Cu - coeficient of uniformity = D60/D10
- Cs - coefficient of gradation, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5 = $D30^2$/(D60*D10)
-NC - not calculated
USCS - Unified Soil Classification System

USCS Classification

than 6, and CS is between 1 and 3
- SP - poorly-graded sand, if PCT/P Sieve No. 200 is less than 5%, Cu and Cs are not within range of SW
- SM - silty sand, if PCT/P Sieve No. 200 is greater than 12%, silt characterization was field determined
- SC - clayey sand, if PCT/P Sieve No. 200 is greater than 12%, clay characterization was field determined
- Dual classification if PCT/P Sieve No. 200 is between 5% and 12%

TABLE 5-5
Surface Soil Grain Size Analysis Results
Expanded Soil Background Study
MCB CamLej, North Carolina

Sample ID	BBG-SS63-0-1-10B	BBG-SS64-0-1-10B	BBG-SS65-0-1-10B	BBG-SS66-0-1-10B	BBG-SS67-0-1-10B	BBG-SS68-0-1-10B	BBG-SS69-0-1-10B	BBG-SS70-0-1-10B	BBG-SS71-0-1-10B	BBG-SS72-0-1-10B	BBG-SS73-0-1-10B	BBG-SS74-0-1-10B	BBG-SS75-0-1-10B	BBG-SS76-0-1-10B	BBG-SS77-0-1-10B	BBG-SS78-0-1-10B
Sample Date	5/18/10	5/20/10	5/20/10	5/20/10	5/18/10	5/20/10	5/20/10	5/20/10	5/19/10	5/19/10	5/14/10	5/14/10	5/17/10	5/19/10	5/13/10	5/13/10
Grain Size (PCT/P)																
Sieve No. 005 (4-mm)	98.6	100	100	99.7	99.8	100	100	100	100	100	100	99.4	95.5	100	100	98.7
Sieve No. 010 (2.00 mm)	92.6	98	95.3	93.8	94.1	99.4	99.6	99.8	86.2	99.3	94.1	90.2	87.1	97.5	97.1	87
Sieve No. 020 (850 um)	83.1	92.8	89.8	86.8	84.2	97.8	97.4	99.6	71.2	96.8	86.4	84.3	78.2	94.1	92.3	74.8
Sieve No. 040 (425 um)	76.7	89.1	87	79.1	75.1	95.7	94.2	95.7	63.6	94.9	80.3	81.2	72	88.9	89.4	67.7
Sieve No. 060 (250 um)	69.8	82.7	78.4	60.3	67.2	89	84.8	68.9	55.7	94.8	75.5	75.8	60.7	82.7	88.1	63.2
Sieve No. 080 (180 um)	54.2	63.5	36.5	33.8	49.9	54.9	65.3	30.7	42.3	79.8	47.5	57	38.3	57	56.6	44.6
Sieve No. 100 (150 um)	45.6	48.7	21.3	20	34.4	30	48.6	15.5	36.2	68.2	37.4	43	30.2	45.8	35.7	37.3
Sieve No. 200 (75 um)	25.8	10.3	5.9	5	4.3	6.3	5.3	0.94	13.4	18.4	26.1	14.2	13.9	17.7	13.9	13.8
Sieve No. 230 (63-um)	18.8	6.6	4.7	4.1	2.6	5	3.4	0.71	9.4	11.8	20.9	11.5	10.2	15.4	9	9.5
Particle Size Parameters																
D10	0.048	0.074	0.095	0.100	0.089	0.087	0.083	0.122	0.065	0.060	0.038	0.056	0.062	0.035	0.065	0.064
D30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
D60	0.21	0.17	0.22	0.25	0.22	0.19	0.17	0.23	0.35	0.14	0.21	0.19	0.25	0.19	0.19	0.24
Cu	4.3	2.3	2.3	2.5	2.5	2.2	2.1	1.9	5.3	2.3	5.6	3.4	4.0	5.4	2.9	3.7
Cs	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Soil Classification	**SC**	**SP-SM**	**SP-SM**	**OH-OL**	**OH-OL**	**SP-SM**	**SP-SM**	**SP**	**SM**	**SM**	**SM**	**SM**	**SC**	**SM**	**SM**	**SM**

Notes:

- PCT/P - Percent Passed
- D10 - diameter of soil particles corresponding to 10% finer

- D30 - diameter of soil particles corresponding to 30% finer, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5
- D60 - diameter of soil particles corresponding to 60% finer
- Cu - coeficient of uniformity = D60/D10
- Cs - coefficient of gradation, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5 = $D30^2$/(D60*D10)
-NC - not calculated
USCS - Unified Soil Classification System

USCS Classification

than 6, and CS is between 1 and 3
- SP - poorly-graded sand, if PCT/P Sieve No. 200 is less than 5%, Cu and Cs are not within range of SW
- SM - silty sand, if PCT/P Sieve No. 200 is greater than 12%, silt characterization was field determined
- SC - clayey sand, if PCT/P Sieve No. 200 is greater than 12%, clay characterization was field determined
- Dual classification if PCT/P Sieve No. 200 is between 5% and 12%

TABLE 5-5
Surface Soil Grain Size Analysis Results
Expanded Soil Background Study
MCB CamLej, North Carolina

Sample ID	BBG-SS79-0-1-10B	BBG-SS80-0-1-10B	BBG-SS81-0-1-10B	BBG-SS82-0-1-10B	BBG-SS83-0-1-10B	BBG-SS84-0-1-10B	BBG-SS85-0-1-10B	BBG-SS86-0-1-10B	BBG-SS87-0-1-10B	BBG-SS88-0-1-10B	BBG-SS89-0-1-10B	BBG-SS90-0-1-10B
Sample Date	5/13/10	5/12/10	5/18/10	5/21/10	5/13/10	5/14/10	5/13/10	5/14/10	5/19/10	5/19/10	5/13/10	5/19/10
Grain Size (PCT/P)												
Sieve No. 005 (4-mm)	100	99.8	99.8	98.8	99.8	99.5	99.9	99.1	100	99.6	98.5	99.8
Sieve No. 010 (2.00 mm)	98.7	94	99.4	97.6	97.2	87	95.6	83.9	85.5	96.8	93.7	99.4
Sieve No. 020 (850 um)	97.1	88	98.9	95.3	94.5	78.4	88.9	72.8	71.1	72.5	88.2	98.5
Sieve No. 040 (425 um)	96.2	81.3	98.5	92.4	91.5	73.5	83.4	66.4	59.7	58.1	80.9	97.8
Sieve No. 060 (250 um)	94.6	57.4	96.9	88.1	80.9	64.6	70.4	55.3	50.3	44.6	69.6	97.8
Sieve No. 080 (180 um)	72.3	19.1	66.4	57.7	41.7	44.6	36.2	32.8	41	31.3	49.4	55.8
Sieve No. 100 (150 um)	47.3	9.5	34.7	35.1	28.6	35.5	20	25.2	33.9	26.5	35.1	27.8
Sieve No. 200 (75 um)	5.6	3.1	2	6	11.7	11.6	4.4	12	10.6	14.3	9.1	3.7
Sieve No. 230 (63-um)	4	2.5	1.5	4.7	9.3	9	3.3	9.3	7.4	10.4	5.9	2.8
Particle Size Parameters												
D10	0.083	0.152	0.093	0.085	0.067	0.068	0.102	0.066	0.073	0.062	0.078	0.095
D30	NC	NC	NC	NC	NC	NC	NC	NC	0.137	0.170	NC	NC
D60	0.17	0.27	0.17	0.19	0.21	0.23	0.23	0.32	0.44	0.48	0.22	0.19
Cu	2.0	1.8	1.9	2.2	3.2	3.5	2.2	4.9	6.0	7.8	2.8	2.0
Cs	NC	NC	NC	NC	NC	NC	NC	NC	0.6	1.0	NC	NC
Soil Classification	**SP-SM**	**SP**	**SP**	**SP-SM**	**SP-SM**	**SP-SM**	**SP**	**SP-SC**	**SP-SM**	**SC**	**SP-SM**	**SP**

Notes:

- PCT/P - Percent Passed
- D10 - diameter of soil particles corresponding to 10% finer

- D30 - diameter of soil particles corresponding to 30% finer, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5
- D60 - diameter of soil particles corresponding to 60% finer
- Cu - coeficient of uniformity = D60/D10
- Cs - coefficient of gradation, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5 = $D30^2$/(D60*D10)
-NC - not calculated
USCS - Unified Soil Classification System

USCS Classification

than 6, and CS is between 1 and 3
- SP - poorly-graded sand, if PCT/P Sieve No. 200 is less than 5%, Cu and Cs are not within range of SW
- SM - silty sand, if PCT/P Sieve No. 200 is greater than 12%, silt characterization was field determined
- SC - clayey sand, if PCT/P Sieve No. 200 is greater than 12%, clay characterization was field determined
- Dual classification if PCT/P Sieve No. 200 is between 5% and 12%

TABLE 5-6
Subsurface Soil Grain Size Analysis Results
Expanded Soil Background Study
MCB CamLej, North Carolina

Sample ID	BBG-SB02-5-6-10B	BBG-SB05-7-8-10B	BBG-SB08-6-7-10B	BBG-SB11-11-12-10B	BBG-SB12-2-3-10B	BBG-SB18-12-13-10B	BBG-SB23-1.5-2-10B	BBG-SB24-3-4-10B	BBG-SB25-3-4-10B	BBG-SB31-5-6-10B	BBG-SB32-2.5-3.5-10B	BBG-SB33-4-5-10B	BBG-SB35-2-3-10B	BBG-SB41-1-2-10B
Sample Date	5/14/10	5/14/10	5/13/10	5/11/10	5/19/10	5/12/10	5/10/10	5/11/10	5/13/10	5/17/10	5/18/10	5/17/10	5/20/10	5/20/10
Grain Size (PCT/P)														
Sieve No. 005 (4-mm)	100.0	99.2	98.5	100	100	100.0	100.0	100	99	95.0	100	100	100	100
Sieve No. 010 (2.00 mm)	97.4	91.6	73.2	89.3	96.3	91.8	100.0	98.8	98.6	82.0	96.7	100.0	99.8	98.0
Sieve No. 020 (850 um)	76.6	56.8	56.1	75.1	88.0	80.7	99.8	93.5	97.6	68.6	90.2	100.0	99.4	93.8
Sieve No. 040 (425 um)	63.9	38.2	48.2	66.9	81.6	74.8	99.1	86.6	93.6	61.9	78.0	99.8	97.2	89.6
Sieve No. 060 (250 um)	58.0	28.3	43.9	64.7	74.3	65.5	95.8	63.9	83.8	54.5	50.8	93.5	81.2	72.6
Sieve No. 080 (180 um)	46.9	23.0	40.9	59.4	61.4	40.8	77.2	29.6	52.5	46.7	24.0	34.0	47.8	37.0
Sieve No. 100 (150 um)	42.4	20.9	39.5	57.6	52.2	35.5	56.2	19.6	32.9	43.5	15.9	14.8	28.0	20.9
Sieve No. 200 (75 um)	20.3	14.4	22.5	23.1	15.0	15.5	3.5	7.3	5	21.0	2.1	0.32	3	5.5
Sieve No. 230 (63-um)	13.1	9.6	14.5	12	9.5	9.5	1.9	4.9	3.1	13.7	1.5	0.28	2.2	4.4
Particle Size Parameters														
D10	0.058	0.064	0.056	0.061	0.064	0.064	0.084	0.091	0.088	0.057	0.118	0.125	0.096	0.097
D30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
D60	0.31	0.96	1.11	0.19	0.18	0.23	0.16	0.24	0.20	0.38	0.31	0.21	0.21	0.23
Cu	5.3	14.9	19.8	3.1	2.7	3.7	1.8	2.6	2.2	6.7	2.6	1.7	2.1	2.3
Cs	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
USCS Classification	**SC**	**SC**	**SC**	**SC**	**SC**	**SC**	**SP**	**SP-SM**	**SP**	**SC**	**SP**	**SP**	**SP**	**SP-SC**

Notes:
- PCT/P - Percent Passed
- D10 - diameter of soil particles corresponding to 10% finer
- D30 - diameter of soil particles corresponding to 30% finer, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5
- D60 - diameter of soil particles corresponding to 60% finer
- Cu - coeficient of uniformity = D60/D10
- Cs - coefficient of gradation, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5 = $D30^2$/(D60*D10)
-NC - not calculated
USCS - Unified Soil Classification System

USCS Classification
- SW - well-graded sand, if PCT/P Sieve No 200 is less than 5%, Cu is greater than 6, and CS is between 1 and 3
- SP - poorly-graded sand, if PCT/P Sieve No. 200 is less than 5%, Cu and Cs are not within range of SW
- SM - silty sand, if PCT/P Sieve No. 200 is greater than 12%, silt characterization was field determined
- SC - clayey sand, if PCT/P Sieve No. 200 is greater than 12%, clay characterization was field determined
- Dual classification if PCT/P Sieve No. 200 is between 5% and 12%

TABLE 5-6

Subsurface Soil Grain Size Analysis Results
Expanded Soil Background Study
MCB CamLej, North Carolina

Sample ID	BBG-SB43-3-4-10B	BBG-SB44-5-6-10B	BBG-SB47-14-15-10B	BBG-SB48-7-8-10B	BBG-SB49-11-12-10B	BBG-SB50-1-2-10B	BBG-SB53-7-8-10B	BBG-SB54-4-5-10B	BBG-SB55-2.5-3-10B	BBG-SB56-3-4-10B	BBG-SB59-9-10-10B	BBG-SB61-6-7-10B	BBG-SB63-5.5-6.5-10B	BBG-SB64-1-2-10B	BBG-SB65-1-2-10B	BBG-SB69-2-3-10B	BBG-SB70-1-2-10B
Sample Date	5/20/10	5/20/10	5/12/10	5/12/10	5/11/10	5/18/10	5/11/10	5/11/10	5/11/10	5/11/10	5/12/10	5/18/10	5/18/10	5/20/10	5/20/10	5/20/10	5/20/10
Grain Size (PCT/P)																	
Sieve No. 005 (4-mm)	99.9	100	100.0	100	99.6	100.0	99.7	100	100.0	99.7	99.7	97.8	99.1	100.0	100	100.0	100.0
Sieve No. 010 (2.00 mm)	99.6	92.2	88.8	99.9	83.9	98.1	85.6	94.0	99.8	94.3	92.7	83.7	87.0	96.6	93.3	87.5	98.9
Sieve No. 020 (850 um)	99.0	80.3	72.1	99.3	66.7	93.6	71.0	82.1	96.7	82.6	76.5	73.2	78.6	89.4	85.8	76.4	98.0
Sieve No. 040 (425 um)	96.0	74.7	64.4	97.9	59.5	89.4	64.6	73	93.5	73.4	67.9	68.0	74.9	84.8	82.3	71.2	93.8
Sieve No. 060 (250 um)	76.4	68.5	60.4	92.6	55.6	80.1	59.3	48.2	77.5	59.1	64.1	66.2	65.6	80.4	68.2	68.9	70.3
Sieve No. 080 (180 um)	32.4	49.7	57.6	64.9	52.6	55.0	53.6	23.8	36.5	41.4	61.5	38.1	38.1	68.5	31.6	55.0	23.9
Sieve No. 100 (150 um)	15.9	37.5	56.0	47.9	50.9	38.0	50.1	18.5	22.5	35.3	59.7	25.6	26.0	55.1	19.3	42.1	11.6
Sieve No. 200 (75 um)	1.3	12.1	25.5	3.3	21.9	6.5	23.8	7.7	4	13.7	27.3	7	4.9	13.7	6.7	5.7	1.4
Sieve No. 230 (63-um)	0.91	8.9	17.8	1.8	14.5	4.8	20.9	6	3.1	9.3	14.8	5.1	3.8	8.5	5.4	3.5	1.2
Particle Size Parameters																	
D10	0.120	0.067	0.051	0.086	0.056	0.083	0.018	0.091	0.099	0.065	0.058	0.087	0.093	0.066	0.095	0.084	0.138
D30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
D60	0.22	0.22	0.24	0.17	0.45	0.19	0.27	0.33	0.22	0.26	0.16	0.23	0.24	0.16	0.23	0.21	0.23
Cu	1.9	3.3	4.7	2.0	8.2	2.3	15.3	3.7	2.2	4.0	2.7	2.7	2.5	2.4	2.5	2.4	1.7
Cs	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
USCS Classification	**SP**	**SP-SC**	**SC**	**SP**	**SC**	**SP-SM**	**SC**	**SW-SM**	**SP**	**SC**	**SC**	**SP-SC**	**SP**	**SM**	**SP-SM**	**SP-SM**	**SP**

Notes:

- PCT/P - Percent Passed
- D10 - diameter of soil particles corresponding to 10% finer
- D30 - diameter of soil particles corresponding to 30% finer, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5
- D60 - diameter of soil particles corresponding to 60% finer
- Cu - coeficient of uniformity = D60/D10
- Cs - coefficient of gradation, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5 = $D30^2$/(D60*D10)
-NC - not calculated
USCS - Unified Soil Classification System

USCS Classification

- SW - well-graded sand, if PCT/P Sieve No 200 is less than 5%, Cu is greater than 6, and CS is between 1 and 3
- SP - poorly-graded sand, if PCT/P Sieve No. 200 is less than 5%, Cu and Cs are not within range of SW
- SM - silty sand, if PCT/P Sieve No. 200 is greater than 12%, silt characterization was field determined
- SC - clayey sand, if PCT/P Sieve No. 200 is greater than 12%, clay characterization was field determined
- Dual classification if PCT/P Sieve No. 200 is between 5% and 12%

TABLE 5-6
Subsurface Soil Grain Size Analysis Results
Expanded Soil Background Study
MCB CamLej, North Carolina

Sample ID	BBG-SB71-4-5-10B	BBG-SB72-2-3-10B	BBG-SB73-9-10-10B	BBG-SB74-4-5-10B	BBG-SB75-3.5-4.5-10B	BBG-SB76-6-7-10B	BBG-SB77-3.5-4.5-10B	BBG-SB78-3.5-4.5-10B	BBG-SB79-11-12-10B	BBG-SB80-3-4-10B	BBG-SB81-5-6-10B	BBG-SB82-2-3-10B	BBG-SB83-6.5-7.5-10B	BBG-SS84-6-7-10B	BBG-SB85-1.5-2.5-10B	BBG-SB86-3-4-10B
Sample Date	5/19/10	5/19/10	5/17/10	5/17/10	5/17/10	5/19/10	5/14/10	5/13/10	5/13/10	5/12/10	5/18/10	5/21/10	5/13/10	5/14/10	5/13/10	5/14/10
Grain Size (PCT/P)																
Sieve No. 005 (4-mm)	100.0	100.0	88.7	96.6	94.4	99.8	100	100	99.9	100	100	100	100.0	99.9	99.4	99.8
Sieve No. 010 (2.00 mm)	98.7	95.0	67	91.4	84.7	87.7	95.4	89.9	89.1	99.6	99.9	90.3	95.7	95.3	91.1	87.3
Sieve No. 020 (850 um)	77.9	84.2	50.2	85.3	75.6	71.7	86.1	74.0	77.1	97.8	99.8	77.4	87.3	75.2	82.7	74.5
Sieve No. 040 (425 um)	70.4	78.1	42.2	76.2	70.0	59.0	79.6	65.4	71.7	92.5	99.6	70.7	82.9	64.2	77.8	68.6
Sieve No. 060 (250 um)	64.3	72.5	38.2	62.2	59.3	36.3	72.8	59.4	67.6	68.7	96.4	63.7	79.2	52.9	72.9	56.8
Sieve No. 080 (180 um)	56.9	64.1	36.2	27.5	27.8	26.3	48.8	49.4	52.1	25.7	72.1	44.2	54.6	43.9	47.3	33.6
Sieve No. 100 (150 um)	52.8	56.6	35.3	19.5	21.5	23.1	31.6	44.2	39.7	12.0	44.6	30.8	38.8	39.8	27.9	25.6
Sieve No. 200 (75 um)	17.8	11.4	26.1	6.3	11.4	10.6	10.3	18.6	11.8	2.2	1.3	6.8	3.2	19.3	4.1	10.8
Sieve No. 230 (63-um)	11.1	6.5	20.3	4.8	7.2	7.3	6.6	12.8	7.5	1.8	0.8	4.8	2.4	13.6	3.0	7.9
Particle Size Parameters																
D10	0.061	0.072	0.042	0.096	0.071	0.073	0.074	0.057	0.070	0.135	0.090	0.085	0.089	0.055	0.094	0.072
D30	NC	NC	NC	NC	NC	0.206	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
D60	0.21	0.16	1.52	0.25	0.26	0.46	0.21	0.27	0.22	0.24	0.17	0.24	0.20	0.36	0.21	0.30
Cu	3.4	2.3	36.5	2.6	3.7	6.3	2.9	4.7	3.1	1.8	1.9	2.8	2.2	6.5	2.3	4.1
Cs	NC	NC	NC	NC	NC	1.270	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
USCS Classification	**SC**	**SP-SM**	**SC**	**SP-SC**	**SP-SC**	**SW-SC**	**SP-SC**	**SC**	**SP-SC**	**SP**	**SP**	**SP-SM**	**SP**	**SC**	**SP**	**SP-SC**

Notes:
- PCT/P - Percent Passed
- D10 - diameter of soil particles corresponding to 10% finer
- D30 - diameter of soil particles corresponding to 30% finer, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5
- D60 - diameter of soil particles corresponding to 60% finer
- Cu - coeficient of uniformity = D60/D10
- Cs - coefficient of gradation, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5 = $D30^2$/(D60*D10)
-NC - not calculated
USCS - Unified Soil Classification System

USCS Classification
- SW - well-graded sand, if PCT/P Sieve No 200 is less than 5%, Cu is greater than 6, and CS is between 1 and 3
- SP - poorly-graded sand, if PCT/P Sieve No. 200 is less than 5%, Cu and Cs are not within range of SW
- SM - silty sand, if PCT/P Sieve No. 200 is greater than 12%, silt characterization was field determined
- SC - clayey sand, if PCT/P Sieve No. 200 is greater than 12%, clay characterization was field determined
- Dual classification if PCT/P Sieve No. 200 is between 5% and 12%

TABLE 5-6
Subsurface Soil Grain Size Analysis Results
Expanded Soil Background Study
MCB CamLej, North Carolina

Sample ID	BBG-SB87-3-4-10B	BBG-SB88-2.5-3.5-10B	BBG-SB89-6.5-7.5-10B	BBG-SB90-2-3-10B
Sample Date	5/19/10	5/19/10	5/13/10	5/19/10
Grain Size (PCT/P)				
Sieve No. 005 (4-mm)	100.0	100	97.0	100.0
Sieve No. 010 (2.00 mm)	90.6	96.1	88.3	99.8
Sieve No. 020 (850 um)	71.5	63.7	77.4	98.8
Sieve No. 040 (425 um)	61.1	46.3	68.3	98.2
Sieve No. 060 (250 um)	53.7	34.2	51.2	96.4
Sieve No. 080 (180 um)	45.7	27.0	29.7	65.9
Sieve No. 100 (150 um)	37.8	24.4	22.9	35.6
Sieve No. 200 (75 um)	10.0	14.4	11.3	2.9
Sieve No. 230 (63-um)	7.2	11.1	7.8	2.2
Particle Size Parameters				
D10	0.075	0.059	0.071	0.091
D30	NC	NC	NC	NC
D60	0.40	0.76	0.34	0.17
Cu	5.3	12.9	4.8	1.9
Cs	NC	NC	NC	NC
USCS Classification	**SP-SC**	**SC**	**SP-SC**	**SP**

Notes:
- PCT/P - Percent Passed
- D10 - diameter of soil particles corresponding to 10% finer
- D30 - diameter of soil particles corresponding to 30% finer, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5
- D60 - diameter of soil particles corresponding to 60% finer
- Cu - coeficient of uniformity = D60/D10
- Cs - coefficient of gradation, calculated when Cu is greater than 6 and PCT/P Sieve No. 200 is less than 5 = $D30^2$/(D60*D10)
-NC - not calculated
USCS - Unified Soil Classification System

USCS Classification
- SW - well-graded sand, if PCT/P Sieve No 200 is less than 5%, Cu is greater than 6, and CS is between 1 and 3
- SP - poorly-graded sand, if PCT/P Sieve No. 200 is less than 5%, Cu and Cs are not within range of SW
- SM - silty sand, if PCT/P Sieve No. 200 is greater than 12%, silt characterization was field determined
- SC - clayey sand, if PCT/P Sieve No. 200 is greater than 12%, clay characterization was field determined
- Dual classification if PCT/P Sieve No. 200 is between 5% and 12%

SECTION 6

Use of Background Data

The primary purpose of the Expanded Soil Background Study was to provide BTVs for use in site-specific environmental investigations and human health and ecological risk assessments at MCB CamLej.

The UTLs calculated for the various soil types and settings within MCB CamLej may be used as BTVs to support risk assessment activities. Additional statistical values have also been calculated to facilitate future site characterization efforts (e.g., minimum and maximum values, percent detections). **Tables 6-1** through **6-12** present summaries of the statistical data. The anticipated uses of the BTVs are described further below.

6.1 Site Screening

For site data collected as part of an investigation, the BTVs can be used to determine if a detected target analyte is related to site use or history. This will be done by comparing the individual site results to the BTV to access whether site results appear to part of a similar parent population as the background data.

Initially, site results will be compared to the depth-specific BTVs (surface and subsurface soil) for the land use (e.g., developed or undeveloped) that is appropriate for the site (**Tables 6-1** through **6-4**). If the site results exceed the depth-specific BTVs, these exceedances may be compared to soil type specific BTVs (**Tables 6-5** through **6-12**) if lithology is suspected to be a factor.

There are several constituents (primarily PAHs and pesticides) where a BTV could not be calculated because of the limited data set. For these constituents, site results in developed areas should be compared to the appropriate undeveloped area BTVs.

6.2 Risk Assessment

During human health or ecological risk screenings and assessments, the BTVs will be used after all detected constituents have been compared to their respective risk screening criteria and potential risks have been identified. Selection of the appropriate BTVs for use at a given site will done using the same process described in Section 6.1. If a target analyte is detected at a concentration below the relevant BTV, and there is no evidence of historical use of that particular analyte, it may be removed from further consideration as a chemical of concern.

USEPA no longer has a RSL for total chromium; therefore, the ratio of the BTVs for trivalent and hexavalent chromium will be used to estimate the concentration of these chemicals for sites if total chromium data is only available.

6.3 Cleanup Action Levels

Cleanup action levels for sites undergoing remediation are selected for each chemical of concern as promulgated or risk-based concentrations. In the event that the BTV is greater than regulatory or risk-based standard, the cleanup level will be set to the BTV (Navy, 2004).

TABLE 6-1

Statistical Summary of Surface Soil Data for Undeveloped Areas (Combined Soil Types)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
2-Methylnaphthalene	5	40	13	1 J	4 J	8.5	17	BASE-BG62	4.49	1.29	4.27	Kaplan Meier UTL
Acenaphthene	3	40	8	0.92 J	1.5 J	8.5	27	BASE-BG67	4.8	1.87	1.75	Kaplan Meier UTL
Acenaphthylene	4	40	10	0.6 J	4.6 J	8.5	18	BASE-BG62	4.7	1.53	5.25	Kaplan Meier UTL
Anthracene	7	40	18	0.55 J	3.4 J	8.5	27	BASE-BG67	4.52	2.09	4	Kaplan Meier UTL
Benzo(a)anthracene	11	40	28	0.68 J	17	8.5	17	BASE-BG05	4.6	2.63	10.1	Kaplan Meier UTL
Benzo(a)pyrene	14	40	35	0.43 J	12	8.5	17	BASE-BG05	4.08	2.39	8.46	Kaplan Meier UTL
Benzo(b)fluoranthene	17	40	43	0.64 J	17	8.5	17	BASE-BG05	4.58	3.53	11.4	Kaplan Meier UTL
Benzo(g,h,i)perylene	10	40	25	0.46 J	7.4 J	8.5	27	BASE-BG05	4.41	2.25	6.99	Kaplan Meier UTL
Benzo(k)fluoranthene	16	40	40	0.6 J	13	8.5	17	BASE-BG05	4.05	2.53	8.81	Kaplan Meier UTL
Chrysene	14	40	35	0.8 J	17	8.5	17	BASE-BG05	4.65	2.96	10.7	Kaplan Meier UTL
Dibenz(a,h)anthracene	2	40	5	2 J	2.7 J	8.5	27	BASE-BG05	5.08	1.8	3.09	Kaplan Meier UTL
Fluoranthene	8	40	20	1.6 J	41	8.5	17	BASE-BG05	6.47	6.61	19.7	Kaplan Meier UTL
Fluorene	5	40	13	0.64 J	1.1 J	8.5	27	BASE-BG67	4.55	2.13	1.13	Kaplan Meier UTL
Indeno(1,2,3-cd)pyrene	17	40	43	0.45 J	11 J	8.5	17	BASE-BG67	4.3	2.54	9.24	Kaplan Meier UTL
Naphthalene	12	40	30	0.79 J	5.3 J	8.5	17	BASE-BG62	3.99	1.84	5.1	Kaplan Meier UTL
Phenanthrene	14	40	35	1.4 J	15	8.5	17	BASE-BG05	4.66	2.47	9.91	Kaplan Meier UTL
Pyrene	19	40	48	0.71 J	27	8.5	17	BASE-BG05	4.81	5.06	14.3	Kaplan Meier UTL
Pesticide (µg/kg)												
4,4'-DDD	5	39	13	0.39 J	34	3.4	11	BASE-BG51	3.22	5.88	14.8	Kaplan Meier UTL
4,4'-DDE	6	39	15	0.52 J	58	3.4	11	BASE-BG51	4.25	9.61	24	Kaplan Meier UTL
4,4'-DDT	9	39	23	0.64 J	7.8	3.4	11	BASE-BG51	2.37	1.48	5.24	Kaplan Meier UTL
Aldrin	5	40	13	0.24 J	1.5 J	1.7	5.5	BASE-BG51	1.01	0.38	1.83	Kaplan Meier UTL
alpha-BHC	2	40	5	0.43 J	0.96 J	1.7	5.5	BASE-BG50	1.05	0.356	1.26	Kaplan Meier UTL
alpha-Chlordane	5	40	13	0.24 J	1.7 J	1.7	5.5	BASE-BG56	1.05	0.399	2	Kaplan Meier UTL
beta-BHC	12	40	30	0.47 J	3.1	0.9	12	BASE-BG25	1.17	1	2.07	Kaplan Meier UTL
delta-BHC	5	40	13	0.22 J	4.5 J	1.7	3.8	BASE-BG62	1.05	0.63	1.85	Kaplan Meier UTL
Dieldrin	6	40	15	0.46 J	3.1 J	3.4	18	BASE-BG51	2.06	1.28	3.17	Kaplan Meier UTL
Endosulfan I	6	40	15	0.2 J	1.6 J	1.7	5.5	BASE-BG56	1.08	0.392	2.1	Kaplan Meier UTL
Endosulfan II	3	40	8	0.81 J	11	3.4	11	BASE-BG25	2.24	1.6	4.47	Kaplan Meier UTL
Endosulfan sulfate	9	40	23	0.47 J	20	3.4	16	BASE-BG53	2.71	3.18	8.92	Kaplan Meier UTL
Endrin	5	40	13	0.4 J	3.5 J	3.4	11	BASE-BG53	2.05	0.787	2.98	Kaplan Meier UTL
Endrin aldehyde	9	40	23	0.53 J	4.7 J	3.4	11	BASE-BG67	1.91	0.914	2.51	Kaplan Meier UTL
Endrin ketone	4	40	10	1.5 J	13	3.4	43	BASE-BG60	2.86	3.54	6.24	Kaplan Meier UTL
gamma-BHC (Lindane)	3	40	8	0.58 J	1.8 J	1.7	5.5	BASE-BG54	1.07	0.377	1.25	Kaplan Meier UTL
gamma-Chlordane	2	40	5	0.22 J	1.5 J	1.7	5.5	BASE-BG05	1.06	0.375	2.22	Kaplan Meier UTL
Heptachlor	13	40	33	0.23 J	0.75 J	1.8	5.5	BASE-BG50	0.86	0.484	0.666	Kaplan Meier UTL
Heptachlor epoxide	5	40	13	0.2 J	1.6 J	1.7	5.5	BASE-BG51	1.01	0.418	1.71	Kaplan Meier UTL
Methoxychlor	1	40	3	12 J	12 J	17	55	BASE-BG61	10.8	3.43	NA	Only a Single Detect

TABLE 6-1

Statistical Summary of Surface Soil Data for Undeveloped Areas (Combined Soil Types)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Metal (mg/kg)												
Aluminum	70	70	100	29.4	17600 J	NA	NA	BASE-BG40	2770	3030	12800	Gamma UTL
Antimony	33	70	47	0.25 J	3.7 J-	0.19	1.9	BASE-BG62	0.548	0.684	1.87	Kaplan Meier UTL
Arsenic	23	70	33	0.27	2.4 J	0.25	1.5	BASE-BG62	0.439	0.395	1.17	Kaplan Meier UTL
Barium	66	70	94	0.73 J	30.3 J	0.28	0.69	BASE-BG62	7.4	6.33	36.7	Gamma UTL
Beryllium	36	70	51	0.012 J	0.53 J	0.01	1.6	BASE-BG40	0.119	0.156	0.195	Kaplan Meier UTL
Cadmium	12	70	17	0.037 J	0.51 J	0.019	0.75	BASE-BG51	0.0859	0.122	0.2	Kaplan Meier UTL
Calcium	47	69	68	12.4 J	20900	11.8	1620	BASE-BG51	1300	3640	8470	Kaplan Meier UTL
Chromium	78	90	87	0.24 J	15.8	0.17	1.5	BASE-BG12	3.29	3.31	17.4	Gamma UTL
Chromium (hexavalent)	4	39	10	0.88 J	2.4 J	2.05	4.46	BASE-BG33	1.27	0.355	2.73	Kaplan Meier UTL
Chromium III and compounds	37	40	93	0.56	13.9	0.5	1.62	BASE-BG12	3.34	3.35	17.5	Gamma UTL
Cobalt	28	70	40	0.089 J	0.51 J	0.076	1.6	BASE-BG15	0.203	0.16	0.414	Kaplan Meier UTL
Copper	52	70	74	0.29 J	41	0.16	1	BASE-BG51	3.01	7.14	17.1	Kaplan Meier UTL
Iron	70	70	100	26.3	12200 J	NA	NA	BASE-BG40	1590	2090	7210	Gamma UTL
Lead	70	70	100	0.45	54.6	NA	NA	BASE-BG51	6.74	9.23	27.5	Lognormal UTL
Magnesium	46	70	66	9.8 J	2120 J	5.2	1620	BASE-BG67	227	374	904	Kaplan Meier UTL
Manganese	64	70	91	0.64 J	51.1	0.29	2.3	BASE-BG64	7.45	9.88	37	Lognormal UTL
Mercury	42	70	60	0.009 J	0.46 J+	0.017	0.26	BASE-BG62	0.0447	0.0603	0.161	Kaplan Meier UTL
Nickel	54	70	77	0.11 J	3.1	0.088	0.73	BASE-BG51	0.712	0.635	3.11	Gamma UTL
Potassium	42	70	60	5.8 J	263 J	3.8	1620	BASE-BG11	134	153	359	Gamma UTL
Selenium	26	70	37	0.25 J	4.1	0.21	0.67	BASE-BG62	0.357	0.615	1.59	Kaplan Meier UTL
Silver	4	70	6	0.097 J	1.1	0.076	1.6	BASE-BG16	0.145	0.189	0.354	Kaplan Meier UTL
Sodium	4	68	6	64 J	688	25.3	752	BASE-BG51	107	131	250	Kaplan Meier UTL
Vanadium	69	70	99	0.14 J	26.2	2.2	2.2	BASE-BG40	4.46	4.64	17.6	Gamma UTL
Zinc	54	70	77	0.36 J	73.9	0.24	2.8	BASE-BG42	5.69	11.6	28.6	Kaplan Meier UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV- Background threshold value

TABLE 6-2

Statistical Summary of Subsurface Soil Data for Undeveloped Areas (Combined Soil Types)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
Anthracene	1	31	3	0.56 J	0.56 J	8.8	12	BASE-BG02	4.87	0.889	NA	Only a Single Detect
Benzo(a)anthracene	4	31	13	0.91 J	1.8 J	8.8	12	BASE-BG48	4.51	1.34	1.98	Kaplan Meier UTL
Benzo(a)pyrene	3	31	10	0.6 J	1 J	8.8	12	BASE-BG02	4.59	1.31	1.18	Kaplan Meier UTL
Benzo(b)fluoranthene	3	31	10	0.99 J	1.3 J	8.8	12	BASE-BG48	4.62	1.22	1.41	Kaplan Meier UTL
Benzo(g,h,i)perylene	2	31	6	0.66 J	0.66 J	8.8	12	BASE-BG48	4.71	1.15	NA	Only a Single Unique Detect
Benzo(k)fluoranthene	3	31	10	0.76 J	1.1 J	8.8	12	BASE-BG48	4.6	1.27	1.27	Kaplan Meier UTL
Chrysene	5	31	16	0.84 J	2.8 J	8.8	12	BASE-BG48	4.43	1.41	3.01	Kaplan Meier UTL
Dibenz(a,h)anthracene	1	31	3	0.72 J	0.72 J	8.8	12	BASE-BG02	4.87	0.863	NA	Only a Single Detect
Fluoranthene	3	31	10	2.1 J	3.9 J	8.8	12	BASE-BG48	4.77	0.831	4.56	Kaplan Meier UTL
Indeno(1,2,3-cd)pyrene	5	31	16	0.61 J	5.6 J	8.8	12	BASE-BG65	4.72	1.15	7.69	Kaplan Meier UTL
Naphthalene	1	31	3	1.2 J	1.2 J	8.8	12	BASE-BG61	4.89	0.788	NA	Only a Single Detect
Phenanthrene	5	31	16	1.7 J	3.6 J	8.8	12	BASE-BG47	4.56	1.01	4.06	Kaplan Meier UTL
Pyrene	5	31	16	0.99 J	2.9 J	8.8	12	BASE-BG48	4.51	1.24	3.56	Kaplan Meier UTL
Pesticide (µg/kg)												
4,4'-DDD	1	31	3	0.98 J	0.98 J	3.5	4.8	BASE-BG08	1.96	0.231	NA	Only a Single Detect
4,4'-DDE	2	31	6	0.54 J	0.56 J	3.5	4.8	BASE-BG33	1.9	0.387	0.572	Kaplan Meier UTL
4,4'-DDT	7	31	23	0.58 J	1.1 J	3.5	4.8	BASE-BG50	1.74	0.52	1.21	Kaplan Meier UTL
Dieldrin	2	31	6	0.69 J	1.2 J	3.5	4.8	BASE-BG59	1.92	0.302	1.51	Kaplan Meier UTL
Endosulfan I	1	31	3	2 J	2 J	1.8	2.5	BASE-BG53	1.05	0.192	NA	Only a Single Detect
Endosulfan II	1	31	3	0.71 J	0.71 J	3.5	4.8	BASE-BG53	1.95	0.27	NA	Only a Single Detect
Endosulfan sulfate	1	31	3	0.67 J	0.67 J	3.5	4.8	BASE-BG55	1.95	0.277	NA	Only a Single Detect
Endrin aldehyde	2	31	6	0.52 J	1.3 J	3.5	4.8	BASE-BG53	1.91	0.319	1.77	Kaplan Meier UTL
Endrin ketone	1	31	3	0.41 J	0.41 J	3.5	4.8	BASE-BG70	1.94	0.318	NA	Only a Single Detect
Heptachlor	4	31	13	0.25 J	0.51 J	1.8	2.5	BASE-BG53	0.938	0.245	0.569	Kaplan Meier UTL
Heptachlor epoxide	2	31	6	0.26 J	0.47 J	1.8	2.4	BASE-BG47	0.975	0.178	0.596	Kaplan Meier UTL
Methoxychlor	1	31	3	120	120	18	25	BASE-BG53	13.8	19.7	NA	Only a Single Detect
alpha-Chlordane	2	31	6	0.62 J	6.6	1.8	2.5	BASE-BG59	1.19	1.01	3.13	Kaplan Meier UTL
beta-BHC	6	31	19	0.47 J	9	0.96	2.5	BASE-BG08	1.32	1.58	4.73	Kaplan Meier UTL
delta-BHC	3	31	10	0.2 J	0.41 J	1.8	2.5	BASE-BG41	0.957	0.237	0.483	Kaplan Meier UTL

TABLE 6-2

Statistical Summary of Subsurface Soil Data for Undeveloped Areas (Combined Soil Types)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Metal (mg/kg)												
Aluminum	61	61	100	260 J	16800	NA	NA	BASE-BG28	5720	4330	19000	Gamma UTL
Antimony	20	61	33	0.2 J	1.6 J-	0.2	1.3	BASE-BG63	0.34	0.401	1.1	Kaplan Meier UTL
Arsenic	25	61	41	0.34 J	9.3	0.27	1.2	BASE-BG05	1.12	1.98	5.09	Kaplan Meier UTL
Barium	61	61	100	0.67 J	27.1	NA	NA	BASE-BG47	8.44	6.45	28.3	Gamma UTL
Beryllium	34	61	56	0.013 J	0.91	0.01	0.64	BASE-BG47	0.11	0.145	0.332	Kaplan Meier UTL
Cadmium	4	61	7	0.11 J	0.36 J	0.021	0.64	BASE-BG69	0.0604	0.108	0.208	Kaplan Meier UTL
Calcium	36	61	59	12.7 J	4950	9.1	641	BASE-BG14	234	664	1530	Kaplan Meier UTL
Chromium	81	81	100	0.83	30.5	NA	NA	BASE-BG05	8.38	6.85	27.6	Gamma UTL
Chromium (hexavalent)	14	31	45	0.934 J	5.38	2.13	2.91	BASE-BG05	1.66	0.933	3.74	Kaplan Meier UTL
Chromium III and compounds	31	31	100	1.36	25.1	NA	NA	BASE-BG05	9.25	6.78	34	Gamma UTL
Cobalt	36	60	60	0.1 J	1.1	0.083	0.64	BASE-BG07	0.289	0.246	1.36	Gamma UTL
Copper	41	61	67	0.23 J	6.7	0.16	1	BASE-BG47	1.22	1.32	6.05	Gamma UTL
Iron	61	61	100	81.5	15600	NA	NA	BASE-BG28	2910	3600	12700	Gamma UTL
Lead	61	61	100	1	12.2 J	NA	NA	BASE-BG15	4.33	2.68	11.2	Gamma UTL
Magnesium	50	61	82	13.5 J	1250	12.3	641	BASE-BG47	205	204	776	Gamma UTL
Manganese	60	61	98	0.57 J	67.6	1.2	1.2	BASE-BG47	5.1	9.06	18.3	Lognormal UTL
Mercury	37	61	61	0.011 J	0.16 J	0.018	0.081	BASE-BG45	0.0326	0.0239	0.0852	Gamma UTL
Nickel	52	61	85	0.12 J	12.3	0.096	0.62	BASE-BG47	1.19	1.68	7.08	Gamma UTL
Potassium	50	61	82	11.9 J	869 J	17.2	641	BASE-BG11	209	215	620	Kaplan Meier UTL
Selenium	25	61	41	0.24 J	1.3	0.23	0.62	BASE-BG15	0.286	0.23	0.736	Kaplan Meier UTL
Silver	7	61	11	0.1 J	0.36 J	0.082	0.64	BASE-BG15	0.106	0.104	0.198	Kaplan Meier UTL
Vanadium	61	61	100	0.35 J	39	NA	NA	BASE-BG15	9.35	9.08	35.6	Gamma UTL
Zinc	36	61	59	0.33 J	39.7	0.26	3.1	BASE-BG47	3.37	5.38	14.1	Kaplan Meier UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV- Background threshold value

TABLE 6-3

Statistical Summary of Surface Soil Data for Developed Areas (Combined Soil Types)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
2-Methylnaphthalene	4	20	20	0.84 J	1.3 J	8.6	11	BASE-BG77	3.84	1.46	1.52	Kaplan Meier UTL
Acenaphthylene	2	20	10	1.1 J	1.2 J	8.6	11	BASE-BG88	4.19	1.08	1.27	Kaplan Meier UTL
Anthracene	3	20	15	0.62 J	1.6 J	8.6	11	BASE-BG89	4.02	1.29	2.1	Kaplan Meier UTL
Benzo(a)anthracene	14	20	70	0.64 J	22	8.6	11	BASE-BG89	3.72	4.59	11.9	Lognormal UTL
Benzo(a)pyrene	14	19	74	0.51 J	4.1 J	8.6	9.2	BASE-BG77	2.44	1.57	5.82	Gamma UTL
Benzo(b)fluoranthene	15	20	75	0.69 J	36	8.6	9.2	BASE-BG89	4.64	7.59	19.7	Lognormal UTL
Benzo(g,h,i)perylene	12	20	60	0.5 J	19	8.6	11	BASE-BG89	3.51	4.03	12.1	Gamma UTL
Benzo(k)fluoranthene	16	20	80	0.47 J	32	8.6	11	BASE-BG89	3.96	6.84	16.4	Lognormal UTL
Chrysene	16	20	80	0.67 J	32	8.6	11	BASE-BG89	4.26	6.77	19.8	Kaplan Meier UTL
Dibenz(a,h)anthracene	4	20	20	0.45 J	5.8 J	8.6	11	BASE-BG89	4.04	1.49	7.28	Kaplan Meier UTL
Fluoranthene	13	20	65	1.6 J	69	8.6	11	BASE-BG89	7.63	14.7	41.7	Kaplan Meier UTL
Indeno(1,2,3-cd)pyrene	13	20	65	0.4 J	23	8.6	11	BASE-BG89	3.81	4.91	14.9	Lognormal UTL
Naphthalene	4	20	20	1 J	1.2 J	8.6	11	BASE-BG88	3.84	1.41	1.36	Kaplan Meier UTL
Phenanthrene	12	20	60	1.6 J	13	8.6	11	BASE-BG89	3.61	2.59	8.37	Kaplan Meier UTL
Pyrene	17	20	85	0.76 J	52	8.6	9.2	BASE-BG89	5.75	11.2	31.8	Kaplan Meier UTL
Pesticide (µg/kg)												
4,4'-DDD	5	20	25	2.3 J	7.5	3.4	4.3	BASE-BG73	2.56	1.66	6.49	Kaplan Meier UTL
4,4'-DDE	12	20	60	0.76 J	59	3.4	4.1	BASE-BG86	8.81	15.3	78.4	Gamma UTL
4,4'-DDT	9	20	45	0.89 J	81	3.4	4.1	BASE-BG80	7.81	17.9	49.8	Kaplan Meier UTL
Aldrin	1	20	5	1.4 J	1.4 J	1.7	2.2	BASE-BG80	0.958	0.121	NA	Only a Single Detect
Dieldrin	2	19	11	0.88 J	1.1 J	3.4	4.3	BASE-BG74	1.73	0.297	1.26	Kaplan Meier UTL
Endosulfan I	1	20	5	0.45 J	0.45 J	1.7	2.2	BASE-BG83	0.918	0.128	NA	Only a Single Detect
Endosulfan sulfate	3	20	15	1.2 J	2.5 J	3.4	4.3	BASE-BG79	1.81	0.245	3.08	Kaplan Meier UTL
Endrin	2	20	10	1.2 J	1.9 J	3.4	4.3	BASE-BG75	1.78	0.19	2.39	Kaplan Meier UTL
Heptachlor	3	20	15	0.19 J	0.37 J	1.7	2.2	BASE-BG86	0.834	0.258	0.449	Kaplan Meier UTL
Methoxychlor	1	20	5	2.6 J	2.6 J	17	22	BASE-BG89	9.08	1.66	NA	Only a Single Detect
alpha-BHC	2	20	10	0.2 J	0.27 J	1.7	2.1	BASE-BG77	0.864	0.222	0.319	Kaplan Meier UTL
alpha-Chlordane	6	20	30	0.36 J	6.3 J	1.7	2.2	BASE-BG80	1.35	1.49	4.81	Kaplan Meier UTL
beta-BHC	3	20	15	0.35 J	1.7 N	0.92	2.1	BASE-BG89	0.86	0.282	1.74	Kaplan Meier UTL
gamma-BHC (Lindane)	1	20	5	0.32 J	0.32 J	1.7	2.2	BASE-BG82	0.911	0.154	NA	Only a Single Detect
gamma-Chlordane	3	20	15	0.29 J	4.1	1.7	11	BASE-BG86	1.25	1.25	2.54	Kaplan Meier UTL

TABLE 6-3

Statistical Summary of Surface Soil Data for Developed Areas (Combined Soil Types)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Metal (mg/kg)												
Aluminum	20	20	100	221	12800	NA	NA	BASE-BG88	5410	4090	25000	Gamma UTL
Antimony	16	20	80	1.1 J-	1.9 J-	1.1	1.2	BASE-BG77	1.17	0.352	1.72	Kaplan Meier UTL
Arsenic	10	20	50	0.62 J	3.2	0.96	1.2	BASE-BG88	0.91	0.656	2.42	Kaplan Meier UTL
Barium	20	20	100	1.9 J	30.6	NA	NA	BASE-BG78	10.6	6.96	33.8	Gamma UTL
Cadmium	14	20	70	0.07 J	0.51 J	0.49	0.61	BASE-BG88	0.211	0.119	0.517	Gamma UTL
Calcium	11	20	55	147 J	5630	489	650	BASE-BG86	908	1230	3790	Kaplan Meier UTL
Chromium	20	20	100	0.94 J	16.8	NA	NA	BASE-BG88	6.09	4.64	23.1	Gamma UTL
Chromium (hexavalent)	4	20	20	1.03 J	4.9	2.05	2.6	BASE-BG87	1.42	0.964	3.91	Kaplan Meier UTL
Chromium III and compounds	20	20	100	0.935	16.8	NA	NA	BASE-BG88	5.65	4.36	21.4	Gamma UTL
Cobalt	1	20	5	0.45 J	0.45 J	0.48	0.65	BASE-BG71	0.278	0.0455	NA	Only a Single Detect
Copper	18	20	90	0.17 J	2.5	0.51	0.58	BASE-BG88	1.08	0.6	2.5	Normal UTL
Iron	20	20	100	172	9090	NA	NA	BASE-BG88	2340	2550	11100	Gamma UTL
Lead	20	20	100	1.5	22.3 J+	NA	NA	BASE-BG88	6.6	4.75	20.2	Gamma UTL
Manganese	20	20	100	2	16.6	NA	NA	BASE-BG76	9.06	3.86	18.3	Normal UTL
Mercury	19	20	95	0.013 J+	0.11 J+	0.034	0.034	BASE-BG83	0.0414	0.0342	0.121	Kaplan Meier UTL
Nickel	19	20	95	0.24 J	2.6	0.49	0.49	BASE-BG88	1.28	0.61	2.73	Normal UTL
Potassium	1	20	5	5.2 J	5.2 J	481	650	BASE-BG76	256	62.5	NA	Only a Single Detect
Selenium	9	20	45	0.27 J	0.99	0.49	0.65	BASE-BG86	0.368	0.217	0.896	Kaplan Meier UTL
Silver	1	20	5	0.05 J	0.05 J	0.48	0.65	BASE-BG80	0.256	0.0521	NA	Only a Single Detect
Sodium	8	20	40	43.3 J	78 J	481	608	BASE-BG71	184	108	79.7	Kaplan Meier UTL
Vanadium	20	20	100	0.95 J	25.3	NA	NA	BASE-BG88	8.11	6.88	34.1	Gamma UTL
Zinc	20	20	100	0.84 J	15.6	NA	NA	BASE-BG88	4.69	3.59	16.2	Gamma UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

TABLE 6-4

Statistical Summary of Subsurface Soil Data for Developed Areas (Combined Soil Types)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
2-Methylnaphthalene	2	20	10	0.85 J	0.86 J	8.9	11	BASE-BG78	4.52	1.28	0.867	Kaplan Meier UTL
Anthracene	1	20	5	1 J	1 J	8.9	11	BASE-BG72	4.72	0.915	NA	Only a Single Detect
Benzo(a)anthracene	1	20	5	1.6 J	1.6 J	8.9	11	BASE-BG72	4.75	0.787	NA	Only a Single Detect
Chrysene	1	20	5	1.6 J	1.6 J	8.9	11	BASE-BG72	4.75	0.787	NA	Only a Single Detect
Fluoranthene	1	20	5	4 J	4 J	8.9	11	BASE-BG72	4.87	0.335	NA	Only a Single Detect
Naphthalene	2	20	10	0.89 J	0.97 J	8.9	11	BASE-BG72	4.52	1.25	1.03	Kaplan Meier UTL
Phenanthrene	1	20	5	4.3 J	4.3 J	8.9	11	BASE-BG72	4.89	0.298	NA	Only a Single Detect
Pyrene	2	20	10	0.68 J	3.5 J	8.9	11	BASE-BG72	4.63	1.02	5.47	Kaplan Meier UTL
Pesticide (µg/kg)												
4,4'-DDE	4	20	20	0.47 J	2 J	3.5	4.5	BASE-BG80	1.76	0.491	2.46	Kaplan Meier UTL
4,4'-DDT	3	20	15	0.67 J	2.9 J	3.5	4.5	BASE-BG80	1.98	0.421	4.5	Kaplan Meier UTL
Dieldrin	2	20	10	0.86 J	1.3 J	3.5	4.5	BASE-BG86	1.88	0.308	1.61	Kaplan Meier UTL
Endosulfan I	1	20	5	0.32 J	0.32 J	1.8	2.3	BASE-BG77	0.976	0.166	NA	Only a Single Detect
Endosulfan II	1	20	5	0.47 J	0.47 J	3.5	4.5	BASE-BG85	1.89	0.356	NA	Only a Single Detect
Endrin aldehyde	1	20	5	0.52 J	0.52 J	3.5	4.5	BASE-BG87	1.88	0.336	NA	Only a Single Detect
Heptachlor	6	20	30	0.22 J	0.39 J	1.8	2.3	BASE-BG85	0.796	0.333	0.473	Kaplan Meier UTL
alpha-BHC	1	20	5	0.27 J	0.27 J	1.8	2.3	BASE-BG87	0.964	0.172	NA	Only a Single Detect
alpha-Chlordane	4	20	20	0.28 J	0.38 J	1.8	2.3	BASE-BG86	0.865	0.284	0.419	Kaplan Meier UTL
delta-BHC	2	20	10	0.25 J	0.4 J	1.8	2.3	BASE-BG86	0.938	0.22	0.505	Kaplan Meier UTL
gamma-Chlordane	2	20	10	0.23 J	0.26 J	1.8	2.3	BASE-BG87	0.93	0.239	0.281	Kaplan Meier UTL

TABLE 6-4

Statistical Summary of Subsurface Soil Data for Developed Areas (Combined Soil Types)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Metal (mg/kg)												
Aluminum	20	20	100	1400	25600	NA	NA	BASE-BG87	10600	6680	26600	Normal UTL
Antimony	17	20	85	0.79 J-	1.7 J-	1.1	1.2	BASE-BG84	1.24	0.345	1.79	Normal UTL
Arsenic	15	20	75	0.59 J	9	1.1	1.2	BASE-BG76	2.16	2.28	14.7	Gamma UTL
Barium	20	20	100	2 J	57	NA	NA	BASE-BG71	14.3	12	53.2	Gamma UTL
Beryllium	1	20	5	0.08 J	0.08 J	0.53	0.66	BASE-BG82	0.282	0.0505	NA	Only a Single Detect
Cadmium	17	20	85	0.07 J	1.6	0.54	0.59	BASE-BG76	0.357	0.328	1.3	Gamma UTL
Calcium	6	20	30	159 J	773	528	662	BASE-BG82	339	166	720	Kaplan Meier UTL
Chromium	20	20	100	2.5	32.3	NA	NA	BASE-BG76	13	8.23	32.7	Normal UTL
Chromium (hexavalent)	13	20	65	0.989 J	5.1	2.15	2.72	BASE-BG82	1.97	1.19	6.15	Normal UTL
Chromium III and compounds	20	20	100	1.64	30.3	NA	NA	BASE-BG76	11.7	8.12	43.4	Gamma UTL
Cobalt	6	20	30	0.31 J	1.4	0.53	0.66	BASE-BG71	0.38	0.254	1	Kaplan Meier UTL
Copper	20	20	100	0.28 J	5	NA	NA	BASE-BG86	1.81	1.38	6.61	Gamma UTL
Iron	20	20	100	416	41800	NA	NA	BASE-BG76	6390	9210	33600	Gamma UTL
Lead	20	20	100	1.9	14.1	NA	NA	BASE-BG71	6.23	3.41	14.4	Normal UTL
Magnesium	3	20	15	599	820 J	528	662	BASE-BG87	350	153	732	Kaplan Meier UTL
Manganese	20	20	100	1.4	16.6	NA	NA	BASE-BG76	7.96	3.74	16.9	Normal UTL
Mercury	13	20	65	0.013 J+	0.11 J+	0.036	0.045	BASE-BG81	0.0424	0.0333	0.148	Normal UTL
Nickel	20	20	100	0.6	14.1	NA	NA	BASE-BG71	2.36	2.91	8.86	Gamma UTL
Potassium	5	20	25	591	1190	528	662	BASE-BG76	429	270	1020	Kaplan Meier UTL
Selenium	9	20	45	0.29 J	1.1	0.53	0.63	BASE-BG76	0.405	0.229	0.948	Kaplan Meier UTL
Silver	1	20	5	0.06 J	0.06 J	0.54	0.66	BASE-BG81	0.282	0.0546	NA	Only a Single Detect
Sodium	10	20	50	45.4 J	81 J	542	662	BASE-BG71	178	122	81.1	Kaplan Meier UTL
Thallium	1	20	5	1.7	1.7	1.1	1.3	BASE-BG76	0.64	0.252	NA	Only a Single Detect
Vanadium	20	20	100	1.9 J	56.8	NA	NA	BASE-BG88	17.7	15.6	76.1	Gamma UTL
Zinc	20	20	100	1.3 J	12.3	NA	NA	BASE-BG82	5.02	3.38	16.6	Gamma UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

TABLE 6-5

Statistical Summary of Surface Soil Data for Undeveloped Areas (Sand)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
2-Methylnaphthalene	1	11	9	1 J	1 J	8.5	11	BASE-BG47	4.38	1.24	NA	Only a Single Detect
Anthracene	1	11	9	0.7 J	0.7 J	8.5	11	BASE-BG24	4.38	1.33	NA	Only a Single Detect
Benzo(a)anthracene	1	11	9	1.2 J	1.2 J	8.5	11	BASE-BG24	4.43	1.2	NA	Only a Single Detect
Benzo(a)pyrene	2	11	18	0.53 J	0.58 J	8.5	11	BASE-BG24	3.92	1.73	0.625	Kaplan Meier UTL
Benzo(b)fluoranthene	2	11	18	0.85 J	1.2 J	8.5	11	BASE-BG24	4.05	1.59	1.52	Kaplan Meier UTL
Benzo(g,h,i)perylene	1	11	9	0.66 J	0.66 J	8.5	11	BASE-BG24	4.38	1.34	NA	Only a Single Detect
Benzo(k)fluoranthene	2	11	18	0.72 J	0.8 J	8.5	11	BASE-BG53	3.96	1.65	0.873	Kaplan Meier UTL
Chrysene	2	11	18	1.2 J	1.4 J	8.5	11	BASE-BG24	4.1	1.48	1.58	Kaplan Meier UTL
Fluoranthene	1	11	9	2.9 J	2.9 J	8.5	11	BASE-BG24	4.58	0.771	NA	Only a Single Detect
Fluorene	1	11	9	0.65 J	0.65 J	8.5	11	BASE-BG24	4.38	1.35	NA	Only a Single Detect
Indeno(1,2,3-cd)pyrene	4	11	36	0.56 J	4 J	8.5	11	BASE-BG43	3.89	1.67	7.02	Kaplan Meier UTL
Phenanthrene	2	11	18	2.1 J	3.1 J	8.5	11	BASE-BG24	4.34	1.03	4.01	Kaplan Meier UTL
Pyrene	3	11	27	0.74 J	2.5 J	8.5	11	BASE-BG24	3.74	1.64	3.61	Kaplan Meier UTL
Pesticide (µg/kg)												
4,4'-DDD	1	11	9	0.39 J	0.39 J	3.4	4.4	BASE-BG32	1.76	0.491	NA	Only a Single Detect
4,4'-DDE	1	10	10	0.52 J	0.52 J	3.4	4.4	BASE-BG33	1.7	0.452	NA	Only a Single Detect
4,4'-DDT	2	11	18	0.64 J	1.8 J	3.4	4.4	BASE-BG47	1.72	0.397	2.85	Kaplan Meier UTL
Endosulfan I	2	11	18	0.2 J	0.63 J	1.7	2.3	BASE-BG33	0.866	0.261	1.02	Kaplan Meier UTL
Endrin	2	11	18	1.4 J	3.5 J	3.4	4.2	BASE-BG53	1.97	0.549	3.95	Kaplan Meier UTL
Endrin ketone	1	11	9	2.8 J	2.8 J	3.4	5.4	BASE-BG32	2.02	0.393	NA	Only a Single Detect
Heptachlor	3	11	27	0.25 J	0.48 J	1.8	2.2	BASE-BG53	0.8	0.272	0.699	Kaplan Meier UTL
Heptachlor epoxide	1	11	9	0.24 J	0.24 J	1.7	2.3	BASE-BG47	0.899	0.241	NA	Only a Single Detect
alpha-Chlordane	1	11	9	0.34 J	0.34 J	1.7	2.3	BASE-BG32	0.922	0.219	NA	Only a Single Detect
beta-BHC	5	11	45	0.6 J	1.6 J	0.9	1.8	BASE-BG47	0.817	0.345	1.75	Kaplan Meier UTL

TABLE 6-5

Statistical Summary of Surface Soil Data for Undeveloped Areas (Sand)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Metal (mg/kg)												
Aluminum	29	29	100	29.4	5390	NA	NA	BASE-BG10	1490	1460	8730	Gamma UTL
Antimony	15	29	52	0.25 J	1.4	0.19	1.3	BASE-BG53	0.324	0.312	0.972	Kaplan Meier UTL
Arsenic	4	29	14	0.37 J	0.85 J	0.25	1.3	BASE-BG22	0.261	0.231	0.713	Kaplan Meier UTL
Barium	27	29	93	0.73 J	14.1	0.28	0.48	BASE-BG11	4.25	3.6	27	Gamma UTL
Beryllium	20	29	69	0.012 J	0.11 J	0.01	0.67	BASE-BG11	0.0542	0.0798	0.117	Gamma UTL
Cadmium	3	29	10	0.037 J	0.11 J	0.019	0.67	BASE-BG11	0.0463	0.0896	0.0738	Kaplan Meier UTL
Calcium	20	28	71	12.4 J	592	11.8	669	BASE-BG10	152	155	871	Gamma UTL
Chromium	31	37	84	0.41 J	9.7	0.17	1.1	BASE-BG11	1.9	1.91	13.3	Gamma UTL
Chromium (hexavalent)	1	11	9	2.4 J	2.4 J	2.05	2.68	BASE-BG33	1.24	0.4	NA	Only a Single Detect
Chromium III and compounds	10	11	91	0.56	2.6	0.618	0.618	BASE-BG41	1.54	0.857	4.26	Normal UTL
Cobalt	9	29	31	0.11 J	0.51 J	0.076	0.67	BASE-BG15	0.126	0.125	0.353	Kaplan Meier UTL
Copper	20	28	71	0.29 J	5.4	0.24	1	BASE-BG42	1.35	1.4	6.23	Gamma UTL
Iron	29	29	100	26.3	3830	NA	NA	BASE-BG10	749	837	3950	Gamma UTL
Lead	29	29	100	0.45	38.5 J	NA	NA	BASE-BG11	4.61	6.87	20.9	Lognormal UTL
Magnesium	21	29	72	9.8 J	1610	6.9	669	BASE-BG11	127	298	745	Kaplan Meier UTL
Manganese	25	29	86	0.94 J	25.9	0.29	2.3	BASE-BG11	5.06	5.64	37.8	Gamma UTL
Mercury	16	29	55	0.01 J	0.086 J	0.017	0.08	BASE-BG39	0.0345	0.0194	0.0804	Kaplan Meier UTL
Nickel	19	29	66	0.11 J	1.6	0.088	0.64	BASE-BG11	0.398	0.388	1.38	Gamma UTL
Potassium	19	29	66	5.8 J	263 J	3.8	669	BASE-BG11	66.3	95.3	217	Lognormal UTL
Selenium	6	29	21	0.31 J	0.8	0.21	0.67	BASE-BG15	0.221	0.188	0.624	Kaplan Meier UTL
Sodium	1	29	3	307	307	28.8	669	BASE-BG11	75	92.5	NA	Only a Single Detect
Vanadium	29	29	100	0.14 J	9.8	NA	NA	BASE-BG10	2.5	2.35	10.5	Gamma UTL
Zinc	21	29	72	0.36 J	73.9	0.24	2.5	BASE-BG42	5.6	13.7	43.9	Lognormal UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

TABLE 6-6

Statistical Summary of Surface Soil Data for Undeveloped Areas (Sand with Fines)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
2-Methylnaphthalene	4	29	14	1.1 J	4 J	8.7	17	BASE-BG62	4.54	1.32	4.65	Kaplan Meier UTL
Acenaphthene	3	29	10	0.92 J	1.5 J	8.7	27	BASE-BG67	4.83	2.18	1.78	Kaplan Meier UTL
Acenaphthylene	4	29	14	0.6 J	4.6 J	8.7	18	BASE-BG62	4.69	1.78	5.44	Kaplan Meier UTL
Anthracene	6	29	21	0.55 J	3.4 J	8.7	27	BASE-BG67	4.58	2.33	4.29	Kaplan Meier UTL
Benzo(a)anthracene	10	29	34	0.68 J	17	8.7	17	BASE-BG05	4.66	3.02	11.4	Kaplan Meier UTL
Benzo(a)pyrene	12	29	41	0.43 J	12	8.7	17	BASE-BG05	4.14	2.62	9.63	Kaplan Meier UTL
Benzo(b)fluoranthene	15	29	52	0.64 J	17	8.7	17	BASE-BG05	4.77	4.03	13.4	Kaplan Meier UTL
Benzo(g,h,i)perylene	9	29	31	0.46 J	7.4 J	8.7	27	BASE-BG05	4.43	2.53	7.52	Kaplan Meier UTL
Benzo(k)fluoranthene	14	29	48	0.6 J	13	8.7	17	BASE-BG05	4.09	2.82	9.97	Kaplan Meier UTL
Chrysene	12	29	41	0.8 J	17	8.7	17	BASE-BG05	4.86	3.36	12.5	Kaplan Meier UTL
Dibenz(a,h)anthracene	2	29	7	2 J	2.7 J	8.7	27	BASE-BG05	5.21	2.09	3.13	Kaplan Meier UTL
Fluoranthene	7	29	24	1.6 J	41	8.7	17	BASE-BG05	7.18	7.66	23.7	Kaplan Meier UTL
Fluorene	4	29	14	0.64 J	1.1 J	8.7	27	BASE-BG67	4.62	2.37	1.2	Kaplan Meier UTL
Indeno(1,2,3-cd)pyrene	13	29	45	0.45 J	11 J	8.7	17	BASE-BG67	4.45	2.81	10.5	Kaplan Meier UTL
Naphthalene	12	29	41	0.79 J	5.3 J	8.7	17	BASE-BG62	3.7	2.07	5.28	Kaplan Meier UTL
Phenanthrene	12	29	41	1.4 J	15	8.7	17	BASE-BG05	4.79	2.85	11.3	Kaplan Meier UTL
Pyrene	16	29	55	0.71 J	27	8.7	17	BASE-BG05	5.22	5.84	17.3	Kaplan Meier UTL
Pesticide (µg/kg)												
4,4'-DDD	4	28	14	0.59 J	34	3.5	11	BASE-BG51	3.79	6.88	18.3	Kaplan Meier UTL
4,4'-DDE	4	28	14	0.6 J	58	3.5	11	BASE-BG51	4.7	11	28.6	Kaplan Meier UTL
4,4'-DDT	7	28	25	0.82 J	7.8	3.5	11	BASE-BG51	2.62	1.67	6.18	Kaplan Meier UTL
Aldrin	5	29	17	0.24 J	1.5 J	1.8	5.5	BASE-BG51	1.02	0.444	1.89	Kaplan Meier UTL
Dieldrin	6	29	21	0.46 J	3.1 J	3.5	18	BASE-BG51	2.13	1.5	3.28	Kaplan Meier UTL
Endosulfan I	4	29	14	1.1 J	1.6 J	1.8	5.5	BASE-BG56	1.16	0.406	1.8	Kaplan Meier UTL
Endosulfan II	3	29	10	0.81 J	11	3.5	11	BASE-BG25	2.38	1.86	5.35	Kaplan Meier UTL
Endosulfan sulfate	8	29	28	0.47 J	8.4 J	3.5	16	BASE-BG68	2.41	1.75	5.3	Kaplan Meier UTL
Endrin	3	29	10	0.4 J	1.8 J	3.5	11	BASE-BG64	2.08	0.867	2.38	Kaplan Meier UTL
Endrin aldehyde	9	29	31	0.53 J	4.7 J	3.5	11	BASE-BG67	1.93	1.07	2.88	Kaplan Meier UTL
Endrin ketone	3	29	10	1.5 J	13	3.5	43	BASE-BG60	3.18	4.13	6.93	Kaplan Meier UTL
Heptachlor	10	29	34	0.23 J	0.75 J	1.8	5.5	BASE-BG50	0.882	0.546	0.691	Kaplan Meier UTL
Heptachlor epoxide	4	29	14	0.2 J	1.6 J	1.8	5.5	BASE-BG51	1.05	0.465	1.92	Kaplan Meier UTL
Methoxychlor	1	29	3	12 J	12 J	18	55	BASE-BG61	11.3	3.92	NA	Only a Single Detect
alpha-BHC	2	29	7	0.43 J	0.96 J	1.8	5.5	BASE-BG50	1.08	0.412	1.29	Kaplan Meier UTL
alpha-Chlordane	4	29	14	0.24 J	1.7 J	1.8	5.5	BASE-BG56	1.1	0.442	2.24	Kaplan Meier UTL
beta-BHC	7	29	24	0.47 J	3.1	0.9	12	BASE-BG25	1.3	1.13	2.3	Kaplan Meier UTL
delta-BHC	5	29	17	0.22 J	4.5 J	1.8	3.8	BASE-BG62	1.07	0.739	2.2	Kaplan Meier UTL
gamma-BHC (Lindane)	3	29	10	0.58 J	1.8 J	1.8	5.5	BASE-BG54	1.11	0.435	1.44	Kaplan Meier UTL
gamma-Chlordane	2	29	7	0.22 J	1.5 J	1.8	5.5	BASE-BG05	1.09	0.434	2.29	Kaplan Meier UTL

TABLE 6-6

Statistical Summary of Surface Soil Data for Undeveloped Areas (Sand with Fines)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Metal (mg/kg)												
Aluminum	41	41	100	40.8	17600 J	NA	NA	BASE-BG40	3670	3510	17300	Gamma UTL
Antimony	18	41	44	0.31 J	3.7 J-	0.19	1.9	BASE-BG62	0.707	0.822	2.38	Kaplan Meier UTL
Arsenic	19	41	46	0.27	2.4 J	0.27	1.5	BASE-BG62	0.565	0.438	1.46	Kaplan Meier UTL
Barium	39	41	95	0.9 J	30.3 J	0.32	0.69	BASE-BG62	9.63	6.91	49	Gamma UTL
Beryllium	16	41	39	0.029 J	0.53 J	0.01	1.6	BASE-BG40	0.165	0.18	0.261	Kaplan Meier UTL
Cadmium	9	41	22	0.056 J	0.51 J	0.02	0.75	BASE-BG51	0.114	0.135	0.272	Kaplan Meier UTL
Calcium	27	41	66	44.2 J	20900	18	1620	BASE-BG51	2090	4570	21400	Lognormal UTL
Chromium	47	53	89	0.24 J	15.8	0.3	1.5	BASE-BG12	4.27	3.72	24.3	Gamma UTL
Chromium (hexavalent)	3	28	11	0.88 J	2.04 J	2.1	4.46	BASE-BG12	1.28	0.343	2.74	Kaplan Meier UTL
Chromium III and compounds	27	29	93	0.707	13.9	0.5	1.62	BASE-BG12	4.02	3.69	21.1	Gamma UTL
Cobalt	19	41	46	0.089 J	0.47 J	0.083	1.6	BASE-BG51	0.257	0.161	0.49	Kaplan Meier UTL
Copper	31	41	76	0.33 J	41	0.16	0.97	BASE-BG51	3.28	7.29	18.5	Kaplan Meier UTL
Iron	41	41	100	34.8	12200 J	NA	NA	BASE-BG40	2190	2480	10700	Gamma UTL
Lead	41	41	100	0.57 J	54.6	NA	NA	BASE-BG51	8.24	10.4	39.5	Lognormal UTL
Magnesium	25	41	61	18.8 J	2120 J	5.2	1620	BASE-BG67	298	407	1140	Lognormal UTL
Manganese	39	41	95	0.64 J	51.1	0.49	1.1	BASE-BG64	9.14	11.8	57.6	Lognormal UTL
Mercury	26	41	63	0.009 J	0.46 J+	0.017	0.26	BASE-BG62	0.0519	0.0766	0.175	Lognormal UTL
Nickel	35	41	85	0.19 J	3.1	0.093	0.73	BASE-BG51	0.934	0.685	5.4	Gamma UTL
Potassium	23	41	56	10.2 J	212 J	4.7	1620	BASE-BG49	182	168	198	Kaplan Meier UTL
Selenium	20	41	49	0.25 J	4.1	0.22	0.6	BASE-BG62	0.453	0.778	2.09	Kaplan Meier UTL
Silver	4	41	10	0.097 J	1.1	0.079	1.6	BASE-BG16	0.199	0.223	0.46	Kaplan Meier UTL
Sodium	3	39	8	64 J	688	25.3	752	BASE-BG51	131	151	307	Kaplan Meier UTL
Vanadium	40	41	98	0.16 J	26.2	2.2	2.2	BASE-BG40	5.85	5.34	25.8	Gamma UTL
Zinc	33	41	80	0.9 J	59.7	0.66	2.8	BASE-BG51	5.76	10.1	26.8	Kaplan Meier UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

TABLE 6-7

Statistical Summary of Subsurface Soil Data for Undeveloped Areas (Sand)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
Benzo(a)anthracene	2	10	20	0.91 J	1.8 J	8.8	10	BASE-BG48	4	1.42	2.65	Kaplan Meier UTL
Benzo(a)pyrene	1	10	10	0.86 J	0.86 J	8.8	10	BASE-BG48	4.31	1.23	NA	Only a Single Detect
Benzo(b)fluoranthene	1	10	10	1.3 J	1.3 J	8.8	10	BASE-BG48	4.36	1.1	NA	Only a Single Detect
Benzo(g,h,i)perylene	1	10	10	0.66 J	0.66 J	8.8	10	BASE-BG48	4.29	1.3	NA	Only a Single Detect
Benzo(k)fluoranthene	1	10	10	1.1 J	1.1 J	8.8	10	BASE-BG48	4.34	1.16	NA	Only a Single Detect
Chrysene	3	10	30	0.84 J	2.8 J	8.8	10	BASE-BG48	3.73	1.58	4.11	Kaplan Meier UTL
Fluoranthene	2	10	20	2.1 J	3.9 J	8.8	10	BASE-BG48	4.33	0.843	5.62	Kaplan Meier UTL
Indeno(1,2,3-cd)pyrene	2	10	20	0.61 J	4.2 J	8.8	10	BASE-BG32	4.26	1.31	7.63	Kaplan Meier UTL
Phenanthrene	2	10	20	2.4 J	3 J	8.8	10	BASE-BG48	4.27	0.862	3.57	Kaplan Meier UTL
Pyrene	3	10	30	0.99 J	2.9 J	8.8	10	BASE-BG48	3.9	1.33	4.52	Kaplan Meier UTL
Pesticide (µg/kg)												
4,4'-DDE	1	10	10	0.56 J	0.56 J	3.5	4.2	BASE-BG33	1.77	0.447	NA	Only a Single Detect
4,4'-DDT	3	10	30	0.58 J	0.93 J	3.5	4.2	BASE-BG63	1.57	0.597	1.16	Kaplan Meier UTL
Endosulfan sulfate	1	10	10	0.67 J	0.67 J	3.5	4.2	BASE-BG55	1.76	0.404	NA	Only a Single Detect
Endrin ketone	1	10	10	0.41 J	0.41 J	3.5	4.2	BASE-BG70	1.76	0.492	NA	Only a Single Detect
Heptachlor	2	10	20	0.25 J	0.28 J	1.8	2.2	BASE-BG25	0.833	0.306	0.309	Kaplan Meier UTL
beta-BHC	3	10	30	0.47 J	3.6 N	0.96	2.1	BASE-BG48	1.08	0.912	3.59	Kaplan Meier UTL
delta-BHC	1	10	10	0.25 J	0.25 J	1.8	2.2	BASE-BG25	0.91	0.241	NA	Only a Single Detect

TABLE 6-7

Statistical Summary of Subsurface Soil Data for Undeveloped Areas (Sand)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Metal (mg/kg)												
Aluminum	31	31	100	260 J	13200	NA	NA	BASE-BG63	3710	3160	14400	Gamma UTL
Antimony	13	31	42	0.2 J	1.6 J-	0.2	1.2	BASE-BG63	0.288	0.347	1.02	Kaplan Meier UTL
Arsenic	7	31	23	0.34 J	1.8	0.27	1.2	BASE-BG63	0.36	0.424	1.26	Kaplan Meier UTL
Barium	31	31	100	0.67 J	18.2	NA	NA	BASE-BG06	5.7	4.82	20.6	Gamma UTL
Beryllium	16	31	52	0.013 J	0.097 J	0.01	0.62	BASE-BG09	0.0521	0.0722	0.0907	Kaplan Meier UTL
Cadmium	1	31	3	0.28 J	0.28 J	0.021	0.62	BASE-BG63	0.0378	0.083	NA	Only a Single Detect
Calcium	18	31	58	12.7 J	499	9.1	622	BASE-BG23	81.5	114	261	Kaplan Meier UTL
Chromium	38	38	100	0.83	15.7	NA	NA	BASE-BG63	4.44	3.91	17.8	Lognormal UTL
Chromium (hexavalent)	2	10	20	1.24 J	2.25 J	2.13	2.54	BASE-BG63	1.28	0.351	2.41	Kaplan Meier UTL
Chromium III and compounds	10	10	100	1.36	14.1	NA	NA	BASE-BG32	4.4	4.98	14.1	Nonparametric UTL
Cobalt	17	31	55	0.1 J	1	0.083	0.62	BASE-BG36	0.231	0.25	0.753	Kaplan Meier UTL
Copper	15	31	48	0.23 J	3.3	0.17	1	BASE-BG42	0.761	0.882	2.67	Kaplan Meier UTL
Iron	31	31	100	81.5	4600	NA	NA	BASE-BG23	1240	1290	5400	Gamma UTL
Lead	31	31	100	1.1 J	6.4 J+	NA	NA	BASE-BG63	2.96	1.43	6.94	Gamma UTL
Magnesium	28	31	90	13.5 J	216	540	622	BASE-BG27	111	87.8	308	Gamma UTL
Manganese	31	31	100	0.75 J	7.4	NA	NA	BASE-BG63	2.77	1.76	7.68	Gamma UTL
Mercury	20	31	65	0.011 J	0.061 J	0.018	0.081	BASE-BG42	0.0293	0.015	0.0711	Gamma UTL
Nickel	24	31	77	0.12 J	3.6	0.096	0.54	BASE-BG23	0.798	0.892	7.28	Gamma UTL
Potassium	28	31	90	16 J	292	540	622	BASE-BG09	101	95.2	318	Lognormal UTL
Selenium	11	31	35	0.24 J	0.47 J	0.23	0.62	BASE-BG37	0.217	0.118	0.437	Kaplan Meier UTL
Silver	1	31	3	0.1 J	0.1 J	0.082	0.62	BASE-BG36	0.0704	0.0751	NA	Only a Single Detect
Vanadium	31	31	100	0.6 J	24.5	NA	NA	BASE-BG63	5.25	5.11	20.7	Gamma UTL
Zinc	14	31	45	0.33 J	7.9	0.26	2.4	BASE-BG42	1.57	1.83	5.54	Kaplan Meier UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

TABLE 6-8

Statistical Summary of Subsurface Soil Data for Undeveloped Areas (Sand with Fines)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
Anthracene	1	21	5	0.56 J	0.56 J	9.3	12	BASE-BG02	4.91	1.06	NA	Only a Single Detect
Benzo(a)anthracene	2	21	10	1.1 J	1.2 J	9.3	12	BASE-BG02	4.75	1.25	1.27	Kaplan Meier UTL
Benzo(a)pyrene	2	21	10	0.6 J	1 J	9.3	12	BASE-BG02	4.72	1.35	1.27	Kaplan Meier UTL
Benzo(b)fluoranthene	2	21	10	0.99 J	1.1 J	9.3	12	BASE-BG02	4.74	1.28	1.18	Kaplan Meier UTL
Benzo(g,h,i)perylene	1	21	5	0.66 J	0.66 J	9.3	12	BASE-BG02	4.91	1.04	NA	Only a Single Detect
Benzo(k)fluoranthene	2	21	10	0.76 J	1 J	9.3	12	BASE-BG02	4.73	1.33	1.17	Kaplan Meier UTL
Chrysene	2	21	10	1 J	1.5 J	9.3	12	BASE-BG65	4.76	1.23	1.84	Kaplan Meier UTL
Dibenz(a,h)anthracene	1	21	5	0.72 J	0.72 J	9.3	12	BASE-BG02	4.92	1.03	NA	Only a Single Detect
Fluoranthene	1	21	5	2.1 J	2.1 J	9.3	12	BASE-BG65	4.98	0.754	NA	Only a Single Detect
Indeno(1,2,3-cd)pyrene	3	21	14	0.78 J	5.6 J	9.3	12	BASE-BG65	4.93	1.03	8.59	Kaplan Meier UTL
Naphthalene	1	21	5	1.2 J	1.2 J	9.3	12	BASE-BG61	4.95	0.931	NA	Only a Single Detect
Phenanthrene	3	21	14	1.7 J	3.6 J	9.3	12	BASE-BG47	4.7	1.06	4.42	Kaplan Meier UTL
Pyrene	2	21	10	1.2 J	2.1 J	9.3	12	BASE-BG65	4.8	1.12	2.72	Kaplan Meier UTL
Pesticide (µg/kg)												
4,4'-DDD	1	21	5	0.98 J	0.98 J	3.7	4.8	BASE-BG08	1.98	0.263	NA	Only a Single Detect
4,4'-DDE	1	21	5	0.54 J	0.54 J	3.7	4.8	BASE-BG08	1.96	0.35	NA	Only a Single Detect
4,4'-DDT	4	21	19	0.72 J	1.1 J	3.7	4.8	BASE-BG50	1.82	0.472	1.26	Kaplan Meier UTL
Dieldrin	2	21	10	0.69 J	1.2 J	3.7	4.8	BASE-BG59	1.92	0.358	1.55	Kaplan Meier UTL
Endosulfan I	1	21	5	2 J	2 J	1.9	2.5	BASE-BG53	1.09	0.219	NA	Only a Single Detect
Endosulfan II	1	21	5	0.71 J	0.71 J	3.7	4.8	BASE-BG53	1.97	0.315	NA	Only a Single Detect
Endrin aldehyde	2	21	10	0.52 J	1.3 J	3.7	4.8	BASE-BG53	1.92	0.379	1.84	Kaplan Meier UTL
Heptachlor	2	21	10	0.35 J	0.51 J	1.9	2.5	BASE-BG53	0.989	0.2	0.62	Kaplan Meier UTL
Heptachlor epoxide	2	21	10	0.26 J	0.47 J	1.9	2.4	BASE-BG47	0.975	0.212	0.614	Kaplan Meier UTL
Methoxychlor	1	21	5	120	120	19	25	BASE-BG53	15.7	23.9	NA	Only a Single Detect
alpha-Chlordane	2	21	10	0.62 J	6.6	1.9	2.5	BASE-BG59	1.29	1.22	3.92	Kaplan Meier UTL
beta-BHC	3	21	14	1.8 J	9	1	2.5	BASE-BG08	1.44	1.83	5.88	Kaplan Meier UTL
delta-BHC	2	21	10	0.2 J	0.41 J	1.9	2.5	BASE-BG41	0.979	0.237	0.554	Kaplan Meier UTL

TABLE 6-8

Statistical Summary of Subsurface Soil Data for Undeveloped Areas (Sand with Fines)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Metal (mg/kg)												
Aluminum	30	30	100	1450	16800	NA	NA	BASE-BG28	7790	4430	21700	Gamma UTL
Antimony	7	30	23	0.28 J	1.5 J-	0.2	1.3	BASE-BG65	0.394	0.45	1.31	Kaplan Meier UTL
Arsenic	18	30	60	0.42 J	9.3	0.29	1.2	BASE-BG05	1.91	2.59	9.82	Gamma UTL
Barium	30	30	100	0.92 J	27.1	NA	NA	BASE-BG47	11.3	6.75	26.3	Normal UTL
Beryllium	18	30	60	0.023 J	0.91	0.057	0.64	BASE-BG47	0.169	0.176	0.6	Gamma UTL
Cadmium	3	30	10	0.11 J	0.36 J	0.022	0.64	BASE-BG69	0.0838	0.127	0.246	Kaplan Meier UTL
Calcium	18	30	60	30.4 J	4950	12.6	641	BASE-BG14	393	921	2170	Lognormal UTL
Chromium	43	43	100	1.9	30.5	NA	NA	BASE-BG05	11.9	7.02	33.5	Gamma UTL
Chromium (hexavalent)	12	21	57	0.934 J	5.38	2.24	2.91	BASE-BG05	1.84	1.07	4.34	Kaplan Meier UTL
Chromium III and compounds	21	21	100	3.23	25.1	NA	NA	BASE-BG05	11.6	6.36	26.6	Normal UTL
Cobalt	19	29	66	0.13 J	1.1	0.088	0.64	BASE-BG07	0.351	0.23	1.01	Normal UTL
Copper	26	30	87	0.25 J	6.7	0.16	0.48	BASE-BG47	1.68	1.53	12.6	Gamma UTL
Iron	30	30	100	102	15600	NA	NA	BASE-BG28	4640	4360	21900	Gamma UTL
Lead	30	30	100	1	12.2 J	NA	NA	BASE-BG15	5.76	2.93	12.3	Normal UTL
Magnesium	22	30	73	14.9 J	1250	12.3	641	BASE-BG47	302	243	1610	Gamma UTL
Manganese	29	30	97	0.57 J	67.6	1.2	1.2	BASE-BG47	7.51	12.4	40.4	Lognormal UTL
Mercury	17	30	57	0.015 J	0.16 J	0.02	0.072	BASE-BG45	0.036	0.0304	0.103	Kaplan Meier UTL
Nickel	28	30	93	0.13 J	12.3	0.11	0.62	BASE-BG47	1.6	2.17	7.8	Lognormal UTL
Potassium	22	30	73	11.9 J	869 J	17.2	641	BASE-BG11	321	246	1440	Gamma UTL
Selenium	14	30	47	0.25 J	1.3	0.24	0.61	BASE-BG15	0.357	0.291	0.97	Kaplan Meier UTL
Silver	6	30	20	0.1 J	0.36 J	0.086	0.64	BASE-BG15	0.143	0.118	0.263	Kaplan Meier UTL
Vanadium	30	30	100	0.35 J	39	NA	NA	BASE-BG15	13.6	10.3	53	Gamma UTL
Zinc	22	30	73	0.88 J	39.7	0.31	3.1	BASE-BG47	5.22	7.03	20.6	Kaplan Meier UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

TABLE 6-9

Statistical Summary of Surface Soil Data for Developed Areas (Sand)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
Benzo(a)anthracene	2	2	100	0.79 J	0.86 J	NA	NA	BASE-BG81	0.825	0.0495	NA	Fewer than Five Results
Benzo(a)pyrene	2	4	50	0.76 J	0.81 J	8.7	9.2	BASE-BG80	2.63	2.13	NA	Fewer than Five Results
Benzo(b)fluoranthene	2	4	50	1.4 J	1.4 J	8.7	9.2	BASE-BG81	2.94	1.78	NA	Fewer than Five Results
Benzo(g,h,i)perylene	2	4	50	0.59 J	0.66 J	8.7	9.2	BASE-BG80	2.55	2.23	NA	Fewer than Five Results
Benzo(k)fluoranthene	2	4	50	0.84 J	0.96 J	8.7	9.2	BASE-BG80	2.69	2.07	NA	Fewer than Five Results
Chrysene	2	4	50	0.98 J	1.3 J	8.7	9.2	BASE-BG81	2.81	1.93	NA	Fewer than Five Results
Fluoranthene	2	4	50	2 J	2.4 J	8.7	9.2	BASE-BG81	3.34	1.33	NA	Fewer than Five Results
Indeno(1,2,3-cd)pyrene	2	4	50	0.74 J	1 J	8.7	9.2	BASE-BG80	2.67	2.09	NA	Fewer than Five Results
Phenanthrene	1	4	25	2.5 J	2.5 J	8.7	10	BASE-BG81	4.11	1.11	NA	Fewer than Five Results
Pyrene	2	4	50	1.8 J	1.9 J	8.7	9.2	BASE-BG80	3.16	1.52	NA	Fewer than Five Results
Pesticide (µg/kg)												
4,4'-DDD	1	4	25	2.3 J	2.3 J	3.4	3.7	BASE-BG80	1.9	0.274	NA	Fewer than Five Results
Aldrin	1	4	25	1.4 J	1.4 J	1.8	1.9	BASE-BG80	1.04	0.243	NA	Fewer than Five Results
Heptachlor	1	4	25	0.22 J	0.22 J	1.8	2.1	BASE-BG85	0.768	0.372	NA	Fewer than Five Results
Metal (mg/kg)												
Aluminum	4	4	100	221	6030	NA	NA	BASE-BG85	2160	2700	NA	Fewer than Five Results
Antimony	3	4	75	1.2 J-	1.3 J-	1.2	1.2	BASE-BG81	1.08	0.32	NA	Fewer than Five Results
Barium	4	4	100	1.9 J	6.8 J	NA	NA	BASE-BG85	3.98	2.24	NA	Fewer than Five Results
Calcium	1	4	25	1500	1500	489	556	BASE-BG80	570	620	NA	Fewer than Five Results
Chromium	4	4	100	0.94 J	5.2	NA	NA	BASE-BG85	2.76	2.05	NA	Fewer than Five Results
Chromium III and compounds	4	4	100	0.935	5.22	NA	NA	BASE-BG85	2.74	2.06	NA	Fewer than Five Results
Copper	3	4	75	0.17 J	1.2	0.51	0.51	BASE-BG80	0.594	0.478	NA	Fewer than Five Results
Iron	4	4	100	172	819	NA	NA	BASE-BG85	509	353	NA	Fewer than Five Results
Lead	4	4	100	1.5	4.6	NA	NA	BASE-BG80	3.23	1.35	NA	Fewer than Five Results
Manganese	4	4	100	2	8.4	NA	NA	BASE-BG80	5.28	3.2	NA	Fewer than Five Results
Mercury	3	4	75	0.015 J	0.025 J	0.034	0.034	BASE-BG85	0.0185	0.00443	NA	Fewer than Five Results
Nickel	3	4	75	0.24 J	1.1	0.49	0.49	BASE-BG85	0.626	0.449	NA	Fewer than Five Results
Selenium	1	4	25	0.29 J	0.29 J	0.49	0.61	BASE-BG85	0.274	0.0284	NA	Fewer than Five Results
Silver	1	4	25	0.05 J	0.05 J	0.49	0.56	BASE-BG80	0.208	0.106	NA	Fewer than Five Results
Sodium	1	4	25	43.3 J	43.3 J	515	608	BASE-BG81	221	120	NA	Fewer than Five Results
Vanadium	4	4	100	0.95 J	7.7	NA	NA	BASE-BG85	3.13	3.18	NA	Fewer than Five Results
Zinc	4	4	100	0.84 J	3.7	NA	NA	BASE-BG80	2.08	1.4	NA	Fewer than Five Results

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

TABLE 6-10

Statistical Summary of Surface Soil Data for Developed Areas (Sand with Fines)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
2-Methylnaphthalene	4	16	25	0.84 J	1.3 J	8.6	11	BASE-BG77	3.66	1.58	1.55	Kaplan Meier UTL
Acenaphthylene	2	16	13	1.1 J	1.2 J	8.6	11	BASE-BG88	4.09	1.19	1.28	Kaplan Meier UTL
Anthracene	3	16	19	0.62 J	1.6 J	8.6	11	BASE-BG89	3.88	1.41	2.16	Kaplan Meier UTL
Benzo(a)anthracene	12	16	75	0.64 J	22	8.6	11	BASE-BG89	3.98	5.04	16.3	Lognormal UTL
Benzo(a)pyrene	12	15	80	0.51 J	4.1 J	8.6	8.6	BASE-BG77	2.39	1.48	6.18	Normal UTL
Benzo(b)fluoranthene	13	16	81	0.69 J	36	8.6	8.6	BASE-BG89	5.07	8.45	30.4	Lognormal UTL
Benzo(g,h,i)perylene	10	16	63	0.5 J	19	8.6	11	BASE-BG89	3.74	4.39	15.6	Gamma UTL
Benzo(k)fluoranthene	14	16	88	0.47 J	32	8.6	11	BASE-BG89	4.28	7.61	25.4	Lognormal UTL
Chrysene	14	16	88	0.67 J	32	8.6	11	BASE-BG89	4.62	7.53	25.2	Lognormal UTL
Dibenz(a,h)anthracene	4	16	25	0.45 J	5.8 J	8.6	11	BASE-BG89	3.9	1.64	7.56	Kaplan Meier UTL
Fluoranthene	11	16	69	1.6 J	69	8.6	11	BASE-BG89	8.7	16.3	48.5	Kaplan Meier UTL
Indeno(1,2,3-cd)pyrene	11	16	69	0.4 J	23	8.6	11	BASE-BG89	4.1	5.41	21.2	Gamma UTL
Naphthalene	4	16	25	1 J	1.2 J	8.6	11	BASE-BG88	3.66	1.53	1.37	Kaplan Meier UTL
Phenanthrene	11	16	69	1.6 J	13	8.6	11	BASE-BG89	3.48	2.86	9.46	Kaplan Meier UTL
Pyrene	15	16	94	0.76 J	52	8.6	8.6	BASE-BG89	6.4	12.5	44.1	Lognormal UTL
Pesticide (µg/kg)												
4,4'-DDD	4	16	25	3.1 J	7.5	3.4	4.3	BASE-BG73	2.72	1.82	6.93	Kaplan Meier UTL
4,4'-DDE	11	16	69	0.76 J	59	3.4	4.1	BASE-BG86	9.99	16.8	96.8	Gamma UTL
4,4'-DDT	8	16	50	0.89 J	18	3.4	4.1	BASE-BG73	4.37	5.57	18	Kaplan Meier UTL
Dieldrin	2	15	13	0.88 J	1.1 J	3.4	4.3	BASE-BG74	1.71	0.323	1.27	Kaplan Meier UTL
Endosulfan I	1	16	6	0.45 J	0.45 J	1.7	2.2	BASE-BG83	0.909	0.139	NA	Only a Single Detect
Endosulfan sulfate	3	16	19	1.2 J	2.5 J	3.4	4.3	BASE-BG79	1.8	0.266	3.15	Kaplan Meier UTL
Endrin	2	16	13	1.2 J	1.9 J	3.4	4.3	BASE-BG75	1.76	0.199	2.43	Kaplan Meier UTL
Heptachlor	2	16	13	0.19 J	0.37 J	1.7	2.2	BASE-BG86	0.851	0.234	0.507	Kaplan Meier UTL
Methoxychlor	1	16	6	2.6 J	2.6 J	17	22	BASE-BG89	8.98	1.82	NA	Only a Single Detect
alpha-BHC	2	16	13	0.2 J	0.27 J	1.7	2.1	BASE-BG77	0.842	0.243	0.323	Kaplan Meier UTL
alpha-Chlordane	5	16	31	0.36 J	5 J	1.7	2.2	BASE-BG86	1.12	1.05	3.62	Kaplan Meier UTL
beta-BHC	3	16	19	0.35 J	1.7 N	0.92	2.1	BASE-BG89	0.898	0.288	2	Kaplan Meier UTL
gamma-BHC (Lindane)	1	16	6	0.32 J	0.32 J	1.7	2.2	BASE-BG82	0.901	0.169	NA	Only a Single Detect
gamma-Chlordane	3	16	19	0.29 J	4.1	1.7	2.2	BASE-BG86	1.05	0.843	2.86	Kaplan Meier UTL

TABLE 6-10

Statistical Summary of Surface Soil Data for Developed Areas (Sand with Fines)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Metal (mg/kg)												
Aluminum	16	16	100	1600	12800	NA	NA	BASE-BG88	6220	4020	22200	Gamma UTL
Antimony	13	16	81	1.1 J-	1.9 J-	1.1	1.1	BASE-BG77	1.19	0.366	1.84	Gamma UTL
Arsenic	10	16	63	0.62 J	3.2	0.96	1.1	BASE-BG88	1	0.706	3.07	Gamma UTL
Barium	16	16	100	5.3 J	30.6	NA	NA	BASE-BG78	12.2	6.77	32.2	Gamma UTL
Cadmium	14	16	88	0.07 J	0.51 J	0.53	0.54	BASE-BG88	0.195	0.129	0.588	Gamma UTL
Calcium	10	16	63	147 J	5630	505	650	BASE-BG86	992	1340	4810	Gamma UTL
Chromium	16	16	100	2.2	16.8	NA	NA	BASE-BG88	6.93	4.77	16.8	Nonparametric UTL
Chromium (hexavalent)	4	16	25	1.03 J	4.9	2.05	2.6	BASE-BG87	1.5	1.07	4.28	Kaplan Meier UTL
Chromium III and compounds	16	16	100	1.59	16.8	NA	NA	BASE-BG88	6.37	4.51	23.4	Gamma UTL
Cobalt	1	16	6	0.45 J	0.45 J	0.48	0.65	BASE-BG71	0.28	0.0496	NA	Only a Single Detect
Copper	15	16	94	0.65	2.5	0.58	0.58	BASE-BG88	1.2	0.576	2.61	Normal UTL
Iron	16	16	100	500	9090	NA	NA	BASE-BG88	2800	2660	15100	Lognormal UTL
Lead	16	16	100	3.2 J+	22.3 J+	NA	NA	BASE-BG88	7.44	4.95	22.2	Gamma UTL
Manganese	16	16	100	5.8	16.6	NA	NA	BASE-BG76	10	3.47	18.8	Normal UTL
Mercury	16	16	100	0.013 J+	0.11 J+	NA	NA	BASE-BG83	0.0471	0.0361	0.249	Lognormal UTL
Nickel	16	16	100	0.68	2.6	NA	NA	BASE-BG88	1.44	0.538	2.8	Normal UTL
Potassium	1	16	6	5.2 J	5.2 J	481	650	BASE-BG76	252	68.8	NA	Only a Single Detect
Selenium	8	16	50	0.27 J	0.99	0.51	0.65	BASE-BG86	0.391	0.237	0.984	Kaplan Meier UTL
Sodium	7	16	44	47.9 J	78 J	481	582	BASE-BG71	175	107	81.1	Kaplan Meier UTL
Vanadium	16	16	100	2.5	25.3	NA	NA	BASE-BG88	9.35	7.05	35.3	Gamma UTL
Zinc	16	16	100	1.9 J	15.6	NA	NA	BASE-BG88	5.34	3.69	16.9	Gamma UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

TABLE 6-11

Statistical Summary of Subsurface Soil Data for Developed Areas (Sand)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
Naphthalene	1	5	20	0.89 J	0.89 J	8.9	10	BASE-BG90	4.02	1.76	NA	Only a Single Detect
Pesticide (µg/kg)												
4,4'-DDE	1	5	20	2 J	2 J	3.5	4	BASE-BG80	1.93	0.104	NA	Only a Single Detect
4,4'-DDT	1	5	20	2.9 J	2.9 J	3.5	4	BASE-BG80	2.11	0.452	NA	Only a Single Detect
Endosulfan II	1	5	20	0.47 J	0.47 J	3.5	3.9	BASE-BG85	1.6	0.639	NA	Only a Single Detect
Heptachlor	3	5	60	0.27 J	0.39 J	1.8	2	BASE-BG85	0.588	0.336	2	Normal UTL
alpha-Chlordane	1	5	20	0.34 J	0.34 J	1.8	2	BASE-BG80	0.848	0.287	NA	Only a Single Detect
Metal (mg/kg)												
Aluminum	5	5	100	1400	8680	NA	NA	BASE-BG83	4130	3130	17300	Normal UTL
Antimony	4	5	80	1.3 J-	1.5 J-	1.1	1.1	BASE-BG90	1.25	0.4	1.77	Normal UTL
Barium	5	5	100	2 J	8 J	NA	NA	BASE-BG83	4.58	2.49	15	Normal UTL
Cadmium	3	5	60	0.07 J	0.18 J	0.57	0.59	BASE-BG83	0.186	0.103	0.62	Normal UTL
Chromium	5	5	100	2.5	8.3	NA	NA	BASE-BG83	4.64	2.5	15.1	Normal UTL
Chromium (hexavalent)	2	5	40	1.52 J	4.4	2.15	2.39	BASE-BG85	1.87	1.42	6.94	Kaplan Meier UTL
Chromium III and compounds	5	5	100	1.64	6.84	NA	NA	BASE-BG83	3.46	2.01	11.9	Normal UTL
Copper	5	5	100	0.28 J	0.92	NA	NA	BASE-BG85	0.644	0.237	1.64	Normal UTL
Iron	5	5	100	416	1480	NA	NA	BASE-BG83	925	469	2900	Normal UTL
Lead	5	5	100	1.9	3.4	NA	NA	BASE-BG83	2.56	0.695	5.48	Normal UTL
Manganese	5	5	100	1.4	7.6	NA	NA	BASE-BG85	4.14	2.67	15.4	Normal UTL
Mercury	4	5	80	0.014 J	0.11 J+	0.038	0.038	BASE-BG81	0.0562	0.0424	0.24	Normal UTL
Nickel	5	5	100	0.6	1.7	NA	NA	BASE-BG83	0.918	0.458	2.84	Normal UTL
Selenium	1	5	20	0.38 J	0.38 J	0.53	0.59	BASE-BG85	0.301	0.0455	NA	Only a Single Detect
Silver	1	5	20	0.06 J	0.06 J	0.56	0.6	BASE-BG81	0.244	0.103	NA	Only a Single Detect
Sodium	3	3	100	45.4 J	56.5 J	NA	NA	BASE-BG83	51.7	5.71	NA	Fewer than Five Results
Vanadium	5	5	100	1.9 J	7.8	NA	NA	BASE-BG83	4.4	2.7	15.8	Normal UTL
Zinc	5	5	100	1.3 J	2.6	NA	NA	BASE-BG80	1.96	0.602	4.49	Normal UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

TABLE 6-12

Statistical Summary of Subsurface Soil Data for Developed Areas (Sand with Fines)

Expanded Soil Background Study

MCB CamLej, North Carolina

Chemical Name	Number of Detects	Number of Analyses	Percent Detects	Minimum Detected Value	Maximum Detected Value	Minimum RL for Non-detects	Maximum RL for Non-detects	Location of Maximum Detected Concentration	Mean Value (1/2 RL for NDs)	Standard Deviation (1/2 RL for NDs)	BTV	Basis
Polycyclic Aromatic Hydrocarbon (µg/kg)												
2-Methylnaphthalene	2	15	13	0.85 J	0.86 J	9	11	BASE-BG78	4.42	1.47	0.868	Kaplan Meier UTL
Anthracene	1	15	7	1 J	1 J	9	11	BASE-BG72	4.68	1.06	NA	Only a Single Detect
Benzo(a)anthracene	1	15	7	1.6 J	1.6 J	9	11	BASE-BG72	4.72	0.908	NA	Only a Single Detect
Chrysene	1	15	7	1.6 J	1.6 J	9	11	BASE-BG72	4.72	0.908	NA	Only a Single Detect
Fluoranthene	1	15	7	4 J	4 J	9	11	BASE-BG72	4.88	0.371	NA	Only a Single Detect
Naphthalene	1	15	7	0.97 J	0.97 J	9	11	BASE-BG72	4.68	1.06	NA	Only a Single Detect
Phenanthrene	1	15	7	4.3 J	4.3 J	9	11	BASE-BG72	4.9	0.325	NA	Only a Single Detect
Pyrene	2	15	13	0.68 J	3.5 J	9	11	BASE-BG72	4.57	1.17	5.71	Kaplan Meier UTL
Pesticide (µg/kg)												
4,4'-DDE	3	15	20	0.47 J	0.98 J	3.6	4.5	BASE-BG88	1.7	0.557	1.24	Kaplan Meier UTL
4,4'-DDT	2	15	13	0.67 J	2.7 J	3.6	4.5	BASE-BG86	1.94	0.418	4.29	Kaplan Meier UTL
Dieldrin	2	15	13	0.86 J	1.3 J	3.7	4.5	BASE-BG86	1.87	0.354	1.65	Kaplan Meier UTL
Endosulfan I	1	15	7	0.32 J	0.32 J	1.8	2.3	BASE-BG77	0.975	0.192	NA	Only a Single Detect
Endrin aldehyde	1	15	7	0.52 J	0.52 J	3.6	4.5	BASE-BG87	1.86	0.388	NA	Only a Single Detect
Heptachlor	3	15	20	0.22 J	0.36 J	1.8	2.3	BASE-BG82	0.865	0.313	0.431	Kaplan Meier UTL
alpha-BHC	1	15	7	0.27 J	0.27 J	1.8	2.3	BASE-BG87	0.958	0.198	NA	Only a Single Detect
alpha-Chlordane	3	15	20	0.28 J	0.38 J	1.8	2.3	BASE-BG86	0.87	0.293	0.432	Kaplan Meier UTL
delta-BHC	2	15	13	0.25 J	0.4 J	1.8	2.3	BASE-BG86	0.923	0.253	0.517	Kaplan Meier UTL
gamma-Chlordane	2	15	13	0.23 J	0.26 J	1.9	2.3	BASE-BG87	0.913	0.275	0.283	Kaplan Meier UTL
Metal (mg/kg)												
Aluminum	15	15	100	4540	25600	NA	NA	BASE-BG87	12700	6180	28600	Normal UTL
Antimony	13	15	87	0.79 J-	1.7 J-	1.2	1.2	BASE-BG84	1.24	0.341	1.85	Normal UTL
Arsenic	15	15	100	0.59 J	9	NA	NA	BASE-BG76	2.69	2.42	11.8	Gamma UTL
Barium	15	15	100	8.3 J	57	NA	NA	BASE-BG71	17.6	12.1	52.2	Gamma UTL
Beryllium	1	15	7	0.08 J	0.08 J	0.54	0.66	BASE-BG82	0.28	0.0583	NA	Only a Single Detect
Cadmium	14	15	93	0.15 J	1.6	0.54	0.54	BASE-BG76	0.413	0.36	1.5	Gamma UTL
Calcium	6	15	40	159 J	773	542	662	BASE-BG82	356	189	833	Kaplan Meier UTL
Chromium	15	15	100	5.7	32.3	NA	NA	BASE-BG76	15.8	7.53	35.1	Normal UTL
Chromium (hexavalent)	11	15	73	0.989 J	5.1	2.22	2.72	BASE-BG82	2	1.16	6.33	Normal UTL
Chromium III and compounds	15	15	100	5.67	30.3	NA	NA	BASE-BG76	14.4	7.5	39.6	Gamma UTL
Cobalt	6	15	40	0.31 J	1.4	0.54	0.66	BASE-BG71	0.412	0.288	1.14	Kaplan Meier UTL
Copper	15	15	100	0.71	5	NA	NA	BASE-BG86	2.19	1.39	7.34	Gamma UTL
Iron	15	15	100	2100	41800	NA	NA	BASE-BG76	8210	10000	38500	Gamma UTL
Lead	15	15	100	4.2	14.1	NA	NA	BASE-BG71	7.45	3.03	17.1	Gamma UTL
Magnesium	3	15	20	599	820 J	542	662	BASE-BG87	372	172	762	Kaplan Meier UTL
Manganese	15	15	100	4.5	16.6	NA	NA	BASE-BG76	9.23	3.17	17.4	Normal UTL
Mercury	9	15	60	0.013 J+	0.1 J+	0.036	0.045	BASE-BG79	0.0378	0.03	0.127	Normal UTL
Nickel	15	15	100	0.98	14.1	NA	NA	BASE-BG71	2.84	3.23	14.1	Nonparametric UTL
Potassium	5	15	33	591	1190	542	662	BASE-BG76	477	299	1110	Kaplan Meier UTL
Selenium	8	15	53	0.29 J	1.1	0.55	0.63	BASE-BG76	0.439	0.256	1.07	Kaplan Meier UTL
Sodium	7	15	47	56.8 J	81 J	542	662	BASE-BG71	189	122	83.3	Kaplan Meier UTL
Thallium	1	15	7	1.7	1.7	1.1	1.3	BASE-BG76	0.663	0.289	NA	Only a Single Detect
Vanadium	15	15	100	7.5	56.8	NA	NA	BASE-BG88	22.1	15.6	75.9	Gamma UTL
Zinc	15	15	100	2.6	12.3	NA	NA	BASE-BG82	6.04	3.3	18	Gamma UTL

Notes:

J - Analyte detected, value may or may not be accurate or precise

J- - Analyte detected, value may be biased low

NA - Not applicable

ND - Non-detect

RL- Reporting Limit

UTL - Upper tolerance limit

BTV - Background threshold value

SECTION 7

References

Baker Environmental (Baker). 2001. *Final Base Background Soil Study Report*. Marine Corps Base Camp Lejeune, North Carolina. April.

CH2M HILL. 2009. *Resource Conservation and Recovery Act (RCRA) Site Management Plan, Fiscal Year 2010, Marine Corps Base Camp Lejeune, Jacksonville, North Carolina*. September.

CH2M HILL. 2010a. *Uniform Federal Policy – Sampling and Analysis Plan (UFP-SAP) for the Expanded Soil and Groundwater Background Study, Marine Corps Base Camp Lejeune, Jacksonville, North Carolina.* July.

CH2M HILL. 2010b. *Site Management Plan Fiscal Year 2011, Marine Corps Base Camp Lejeune, Jacksonville, North Carolina.* December.

United States Department of the Navy (Navy). 2004. Letter from the Chief of Naval Operations to Commander, Naval Facilities Engineering Command, Subject: Navy Policy on the Use of Background Chemical Levels. January 30.

Soil Conservation Service (SCS). *Soil Survey for MCB, Camp Lejeune, North Carolina*. 1984.

United States Department of Agriculture (USDA). 1992. *Soil Survey of Onslow County, North Carolina.* Soil Conservation Service.

United States Environmental Protection Agency (USEPA). 1999. *National Functional Guidelines for Organic Data Review, Multi-Media, Multi-Concentration.*

USEPA. 2002. Guidance for Comparing Background and Chemical Concentrations in Soil for CERCLA Sites.

USEPA. 2004. *National Functional Guidelines for Inorganic Data Review.*

USEPA. 2009. *ProUCL Version 4.00.04 Technical Guide (Draft).* Office of Research and Development. February.

Appendix A
Boring Logs

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-02 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3846827.7 N 280014.0 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 6.2 ft bgs at time of drilling START : 5/14/10 09:20 END : 5/14/10 09:45 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** tan, dry, loose, trace clay, fine grained. **CLAYEY SAND (SC)** tan, moist, medium dense, some clay, very fine grained.	BBG-SS02-00-01-10B @ 0930 and BBG-SS02D-00-01-10B @ 0935
		6.5	HA-1			
5						BBG-SB02-5-6-10B @ 0940 and BBG-SB02D-5-6-10B @ 0945
	6.5				**POORLY GRADED SAND (SP)** tan, wet, loose, fine grained.	Boring terminated at 6.5'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-05 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3844766.1 N 278797.9 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 8 ft bgs at time of drilling START : 5/14/10 07:45 END : 5/14/10 08:10 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** brown, dry to moist, loose, trace silt, fine grained. **POORLY GRADED SAND (SP)** light tan, moist, loose, fine grained.	BBG-SS05-00-01-10B @ 0800
					CLAYEY SAND (SC) tan, moist, medium dense, little clay, very fine grained. **CLAYEY SAND (SC)** gray and orange, moist, dense to very dense, some clay, very fine grained.	
		8.0	HA-1			
5					**CLAYEY SAND (SC)** gray and orange, moist to wet, stiff, some clay, very fine grained.	
						BBG-SB05-7-8-10B @ 0810
	8.0					Boring terminated at 8'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-08 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3844546.3 N 282651.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/13/10 12:30 END : 5/13/10 12:58 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**CLAYEY SAND (SC)** brown, moist, medium dense, trace clay, fine grained.	BBG-SS08-00-01-10B @ 1240
					POORLY GRADED SAND (SP) tan, moist, loose, fine grained. **CLAYEY SAND (SC)** orangeish tan, moist, medium dense, little clay, fine grained.	
		8.0	HA-1			
5					**CLAYEY SAND (SC)** orangeish tan, moist, medium dense, some clay, fine grained.	BBG-SB08-6-7-10B @ 1300
	8.0				**POORLY GRADED SAND (SP)** white, moist, loose, fine grained.	Boring terminated at 8'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-11 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3842575.9 N 273387.7 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 12.1 ft bgs at time of drilling START : 5/11/10 15:52 END : 5/11/10 16:30 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** light tan, dry to moist, loose, fine grained.	BBG-SS11-00-01-10B @ 1605
		5.0	HA-1		**POORLY GRADED SAND (SP)** tan, moist, loose to medium dense, fine grained.	
					POORLY GRADED SAND (SP) light tan, moist, medium dense, with clayey sand, very fine to fine grained.	
5	5.0				No Recovery.	
		1.3	DP-1			
					CLAYEY SAND (SC) light gray, moist, dense, very fine grained.	
10	10.0				**POORLY GRADED SAND (SP)** light gray, very moist, loose, fine grained. No Recovery.	
					CLAYEY SAND (SC) tan to light gray, very moist, medium dense, little clay, fine grained.	BBG-SB11-11-12-10B @ 1620
		3.8	DP-2			
					POORLY GRADED SAND (SP) dark gray, wet, medium dense, trace clay, fine grained. **POORLY GRADED SAND (SP)** orange, wet, fine to medium grained.	
15	15.0				**POORLY GRADED SAND (SP)** dark gray, wet, loose, fine to medium grained.	
						Boring terminated at 15'

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-12 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3843307.5 N 274845.1 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 6.5 ft bgs at time of drilling START : 5/19/10 12:40 END : 5/19/10 12:55 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**CLAYEY SAND (SC)** tan, dry, loose, very fine grained.	BBG-SS12-00-01-10B @ 1245
					POORLY GRADED SAND-CLAYEY SAND (SP-SC) light brown, moist, medium dense.	
					CLAYEY SAND (SC) tan, moist, medium dense.	BBG-SB12-2-3-10B @ 1255
					POORLY GRADED SAND (SP) light tan, moist to wet, loose.	
		7.0	HA-1			
5						
	7.0					Boring terminated at 7'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-18 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3842330.0 N 287243.5 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 13.5 ft bgs at time of drilling START : 5/12/10 14:55 END : 5/12/10 15:30 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** light brownish gray, dry, fine grained. **POORLY GRADED SAND (SP)** light tan to white, dry to moist, loose, fine grained.	BBG-SS18-00-01-10B @ 1505
		5.0	HA-1			
5	5.0				**POORLY GRADED SAND (SP)** orangeish tan, moist, medium dense, fine grained. No Recovery.	
		3.5	DP-1		**POORLY GRADED SAND (SP)** tan to light tan, moist, medium dense, fine grained.	
					LEAN CLAY (CL) tan, moist, stiff, little sand.	
10	10.0				**CLAYEY SAND (SC)** orangeish tan and light gray, moist, medium dense, little clay, fine grained.	
		4.8	DP-2			BBG-SB18-12-13-10B @ 1520
					POORLY GRADED SAND (SP) grayish tan, wet, loose, fine to medium grained.	
15	15.0				**POORLY GRADED SAND (SP)** orange, wet, loose, fine to medium grained.	
						Boring terminated at 15'

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-23 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3840257.9 N 273875.7 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 2.2 ft bgs at time of drilling START : 5/10/10 16:00 END : 5/10/10 17:00 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** brown and tan, moist, loose, trace silt.	BBG-SS23-00-01-10B @ 1620
		2.5	HA-1		**POORLY GRADED SAND (SP)** light tan, very moist, loose.	BBG-SB23-1.5-2-10B @1630
	2.5				**POORLY GRADED SAND (SP)** tan, wet, loose, trace clay, trace silt. ▽	Boring terminated at 2.5'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-24 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3838920.1 N 277071.7 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 4.5 ft bgs at time of drilling START : 5/11/10 10:36 END : 5/11/10 10:55 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** grayish black, moist, loose, trace silt, very fine grained.	BBG-SS24-00-01-10B @ 1045
					POORLY GRADED SAND (SP) light gray, moist, loose, fine grained.	
					SILTY SAND (SM) dark brown, moist, loose, little silt, fine grained.	
					POORLY GRADED SAND-SILTY SAND (SP-SM) brown to dark brown, moist to wet, loose, trace silt, fine grained.	
		4.5	HA-1			BBG-SB24-3-4-10B @ 1055
	4.5				▽	
5						Boring terminated at 4.5'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-25 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3837395.4 N 284680.1 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 4.5 ft bgs at time of drilling START : 5/13/10 11:00 END : 5/13/10 11:10 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** grayish brown, dry to moist, loose, fine grained. **POORLY GRADED SAND (SP)** light tan, moist to very moist, loose, fine grained.	BBG-SS25-00-01-10B @ 1105
		6.0	HA-1		**POORLY GRADED SAND (SP)** light tan, moist to very moist, loose, trace clay, fine grained. **POORLY GRADED SAND (SP)** light tan, wet, loose, fine grained.	BBG-SB25-3-4-10B @ 1110
5					**POORLY GRADED SAND (SP)** orangeish tan, saturated, loose, fine to medium grained.	
	6.0					Boring terminated at 6'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-31 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3834352.6 N 287305.7 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 7.3 ft bgs at time of drilling START : 5/17/10 12:25 END : 5/17/10 12:40 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** dark brown, moist, loose to medium dense, trace silt, very fine grained.	BBG-SS31-00-01-10B @ 1225
					POORLY GRADED SAND (SP) light tan, moist, loose, very fine grained.	
		8.0	HA-1			
5					**CLAYEY SAND (SC)** tan, moist, medium dense, little clay, very fine grained.	BBG-SB31-5-6-10B @ 1240
					POORLY GRADED SAND (SP) tan, very moist, loose, fine grained.	
					POORLY GRADED SAND (SP) light tan to white, wet, loose, fine grained. ▽	
	8.0					Boring terminated at 8'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-32 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3834560.3 N 295304.8 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 3.7 ft bgs at time of drilling START : 5/18/10 10:50 END : 5/18/10 11:00 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** tan, dry, very loose, trace silt, very fine grained.	BBG-SS32-00-01-10B @ 1100 and BBG-SS32D-00-01-10B @ 1105
					POORLY GRADED SAND (SP) light tan, moist, loose, fine grained.	
		4.0	HA-1			
					POORLY GRADED SAND (SP) grayish tan, very moist, loose, trace clay, fine grained.	BBG-SB32-2.5-3.5-10B @ 1110 And BBG-SB32D-2.5-3.5-10B @ 1115
					POORLY GRADED SAND (SP) tannish gray, very moist to wet, loose, fine grained. ▽	
	4.0					Boring terminated at 4'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-33 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3834456.3 N 289290.3 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 5 ft bgs at time of drilling START : 5/17/10 11:35 END : 5/17/10 11:45 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** white and gray, moist, loose, fine grained.	BBG-SS33-00-01-10B @ 1150
					POORLY GRADED SAND (SP) tan, moist, loose, fine grained.	
		5.5	HA-1		**POORLY GRADED SAND (SP)** brown, moist, loose, fine grained.	
					POORLY GRADED SAND (SP) tan, wet, loose, fine grained.	BBG-SB33-4-5-10B @ 1200
5	5.5					Boring terminated at 5.5'
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-35 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3830259.6 N 292908.6 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 3.5 ft bgs at time of drilling START : 5/20/10 16:45 END : 5/20/10 17:00 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** grayish brown, moist, loose.	BBG-SS35-00-01-10B @ 1650
		4.0	HA-1		**POORLY GRADED SAND (SP)** light brown, moist to wet, loose.	BBG-SB35-2.5-3.5-10B @ 1700
	4.0					Boring terminated at 4'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-41 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3827535.5 N 288574.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 2 ft bgs at time of drilling START : 5/20/10 14:30 END : 5/20/10 15:25 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** light tan, dry, loose.	BBG-SS41-00-01-10B @ 1520
		2.5	HA-1		**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** dark brown, moist to wet, loose, trace chunks of cemented silt w/rust colored staining.	BBG-SB41-1-2-10B @ 1525
	2.5					Boring terminated at 2.5'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-43 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3828886.4 N 284369.7 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 3.5 ft bgs at time of drilling START : 5/20/10 10:30 END : 5/20/10 10:45 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** grayish white, dry to moist, loose.	BBG-SS43-00-01-10B @ 1035
		4.0	HA-1		**POORLY GRADED SAND (SP)** very dark brown to brown, moist, loose, very fine grained.	BBG-SB43-3-4-10B @ 1045
	4.0					Boring terminated at 4'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-44 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3830338.5 N 281678.2 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 7 ft bgs at time of drilling START : 5/20/10 08:05 END : 5/20/10 08:25 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**CLAYEY SAND (SC)** tannish white, moist, loose, little clay.	BBG-SS44-00-01-10B @ 0810
					POORLY GRADED SAND-CLAYEY SAND (SP-SC) tan, moist, medium dense, trace clay.	
		7.5	HA-1			
5						BBG-SB44-5-6-10B @ 0825 + ms/msd
					POORLY GRADED SAND (SP) tannish white, moist to wet, loose. ▽	
	7.5					Boring terminated at 7.5'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-47 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3830410.8 N 274893.0 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/12/10 09:05 END : 5/12/10 09:43 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** dark gray, moist, loose, very fine grained.	BBG-SS47-00-01-10B @ 0910
					POORLY GRADED SAND (SP) light tan to tan, very moist, loose, fine grained.	
		5.0	HA-1			
					CLAYEY SAND (SC) tan with light gray, very moist, medium dense, little clay, very fine grained.	
5	5.0					
		4.3	DP-1		**CLAYEY SAND (SC)** gray, very moist, medium dense, some clay, very fine grained.	
10	10.0					
		4.5	DP-2		**CLAYEY SAND (SC)** gray, very moist, medium dense, little clay, very fine grained.	
						BBG-SB47-14-15-10B @ 0940
15	15.0				**CLAYEY SAND (SC)** gray, very moist, medium dense, some clay, very fine grained.	
						Boring terminated at 15'

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-48 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3832643.0 N 272930.6 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 8.5 ft bgs at time of drilling START : 5/12/10 10:55 END : 5/12/10 11:30 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** dark gray, dry, loose, trace silt, very fine grained. **POORLY GRADED SAND (SP)** light gray, dry, loose, very fine grained.	BBG-SS48-00-01-10B @ 1100
		5.0	HA-1		**SILTY SAND (SM)** dark brown, very moist, loose, little silt, very fine grained, trace cemented sand @ 4.5.	
5	5.0				No Recovery.	
		3.0	DP-1		**POORLY GRADED SAND (SP)** dark brown, very moist to wet, loose, trace silt, fine grained.	BBG-SB48-7-8-10B @ 1130
					SILTY SAND (SM) dark brown, saturated, loose, little silt, very fine grained.	
10	10.0					Boring terminated at 10'
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-49 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3835225.8 N 276489.0 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 12.5 ft bgs at time of drilling START : 5/11/10 13:50 END : 5/11/10 14:25 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** tan to light tan, loose to medium dense, fine grained.	BBG-SS49-00-01-10B @ 1405
		5.0	HA-1		**CLAYEY SAND (SC)** light tan, moist, medium dense, little clay, fine grained.	
					POORLY GRADED SAND (SP) light tan, moist, loose to medium dense, trace clay, fine grained.	
5	5.0				No Recovery.	
		4.0	DP-1		**POORLY GRADED SAND (SP)** light gray and orange, moist, medium dense, trace clay, fine grained.	
					CLAYEY SAND (SC) light gray and orange, moist to wet, medium dense, fine grained.	
10	10.0					BBG-SB49-11-12-10B @ 1420
		4.8	DP-2		▽	
					LEAN CLAY (CL) dark gray, wet, soft.	
15	15.0					Boring terminated at 15'

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-50 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3835501.6 N 272840.7 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 1.7 ft bgs at time of drilling START : 5/11/10 14:35 END : 5/18/10 17:10 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** fine grained.	BBG-SS50-00-01-10B @ 1445 ms/msd
						BBG-SB50-1-2-10B @ 1750 on 5-18-10
					POORLY GRADED SAND-SILTY SAND (SP-SM) dark brown, wet, loose, trace silt, fine grained.	
		5.0	HA-1			
5	5.0				No Recovery.	
		3.3	DP-1		**POORLY GRADED SAND (SP)** dark brown, saturated, trace silt, fine grained to very fine grained.	
10	10.0					Boring terminated at 10'
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-51 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3846310.5 N 276945.8 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/19/10 16:30 END : 5/21/10 16:35 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0 1.0	1.0	HA-1		**SANDY ORGANIC SOIL (OL/OH)** dark brown, very moist, Spongy, sticks and leaves present.	BBG-SS51-00-01-10B @ 1630 and BBG-SS51D-00-01-10B @ 1635
						Boring terminated at 1'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-52 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3839373.6 N 273921.3 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/11/10 15:05 END : 5/11/10 15:15 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0 1.0	1.0	HA-1		**POORLY GRADED SAND-SILTY SAND (SP-SM)** black, moist, loose, little silt, very fine to fine grained.	BBG-SS52-00-01-10B @ 1515
						Boring terminated at 1'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-53 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3841873.5 N 278981.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 9 ft bgs at time of drilling START : 5/11/10 09:35 END : 5/11/10 10:00 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** brownish gray, dry, loose, very fine grained.	BBG-SS53-00-01-10B @ 0950 + ms/msd
					POORLY GRADED SAND (SP) tan, moist, loose, fine grained.	
		5.0	HA-1			
					POORLY GRADED SAND (SP) tan, moist, loose, trace silt, fine grained.	
5	5.0				**CLAYEY SAND (SC)** light gray, moist, medium dense, with clay. No Recovery.	
		3.0	DP-1		**CLAYEY SAND (SC)** light gray and orange, very moist, medium dense, with clay, mottled.	BBG-SB53-7-8-10B @ 0955
					POORLY GRADED SAND (SP) orange and light gray, wet, medium dense, trace, fine grained. ▽	
10	10.0					Boring terminated at 10'
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-54 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3837827.1 N 279991.2 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 4.7 ft bgs at time of drilling START : 5/11/10 08:25 END : 5/11/10 08:45 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** brown, dry to moist, loose, trace silt, very fine grained.	BBG-SS54-00-01-10B @ 0840
		5.0	HA-1		**POORLY GRADED SAND-SILTY SAND (SP-SM)** light tan, moist, loose, trace silt, trace clay, very fine grained. **WELL GRADED SAND-SILTY SAND (SW-SM)** tan and orange, moist to wet, medium dense, mottled, fine grained.	BBG-SB54-4-5-10B @ 0850
5	5.0					Boring terminated at 5'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-55 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3836630.6 N 275375.8 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 3.2 ft bgs at time of drilling START : 5/11/10 07:30 END : 5/11/10 07:50 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADES AND-SILTY SAND (SP-SM)** very dark gray, moist, loose, trace silt, very fine grained.	BBG-SS55-00-01-10B @ 0740
		3.5	HA-1		**POORLY GRADED SAND (SP)** dark brown and brown, wet, loose, trace silt, very fine grained.	BBG-SB55-2.5-3-10B @ 0750
	3.5					Boring terminated at 3.5'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-56 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3836374.3 N 278664.0 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 4 ft bgs at time of drilling START : 5/11/10 11:10 END : 5/11/10 11:30 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** dark brown, moist, medium dense, trace silt, fine grained.	BBG-SS56-00-01-10B @ 1125
		4.0	HA-1		**CLAYEY SAND (SC)** gray, moist, medium dense, some clay, fine grained.	BBG-SB56-3-4-10B @ 1130
	4.0				**POORLY GRADED SAND (SP)** gray, wet, loose, fine grained.	Boring terminated at 4'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-57 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3834201.9 N 273831.1 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/12/10 12:00 END : 5/12/10 12:05 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0 1.0	1.0	HA-1		**POORLY GRADED SAND (SP)** brown to light brown, dry to moist, trace silt, fine to very fine grained.	BBG-SS57-00-01-10B @ 1205
						Boring terminated at 1'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-58 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3830176.9 N 273645.8 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/12/10 10:10 END : 5/12/10 10:20 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0	1.0	HA-1		**POORLY GRADED SAND-SILTY SAND (SP-SM)** tan, dry, loose, fine grained. **POORLY GRADED SAND-SILTY SAND (SP-SM)** light gray to white, dry, loose, fine grained.	BBG-SS58-00-01-10B @1015
	1.0					Boring terminated at 1'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-59 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3845408.3 N 284745.5 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/12/10 16:30 END : 5/12/10 17:00 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** light tan and gray, moist, loose, trace silt, fine grained.	BBG-SS59-00-01-10B @ 1640
		5.0	HA-1		**POORLY GRADED SAND (SP)** tan, moist, medium dense, trace clay, trace silt, fine grained.	
5	5.0				**POORLY GRADED SAND (SP)** orangeish tan, moist, medium dense, fine grained.	
		4.5	DP-1		**POORLY GRADED SAND (SP)** light tan, moist, medium dense, trace clay, trace silt, fine grained.	
					CLAYEY SAND (SC) light grayish tan and orangeish tan, moist, little clay, fine to very fine grained.	BBG-SB59-9-10-10B @ 1655
10	10.0					Boring terminated at 10'
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-60 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3843497.0 N 288647.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/12/10 15:45 END : 5/12/10 16:00 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0	1.0	HA-1		**POORLY GRADED SAND-SILTY SAND (SP-SM)** gray, dry to moist, loose, trace silt, very fine grained.	BBG-SS60-00-01-10B @ 1555
	1.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** tan, Same as above.	
5					**POORLY GRADED SAND-SILTY SAND (SP-SM)** dark brown, Same as above.	Boring terminated at 1'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-61 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3840086.7 N 294786.6 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 7.7 ft bgs at time of drilling START : 5/18/10 09:40 END : 5/18/10 09:50 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** light tan and light brown, dry, loose, trace silt, very fine grained.	BBG-SS61-00-01-10B @ 0945 and BBG-SS61D-00-01-10B @ 0950
					POORLY GRADED SAND-CLAYEY SAND (SP-SC) tan, loose to medium dense, little clay, fine grained.	
					POORLY GRADED SAND-CLAYEY SAND (SP-SC) light gray, moist to very moist, loose to medium dense, little clay, fine grained.	
		8.0	HA-1			
5						
						BBG-SB61-6-7-10B @ 0955 and BBG-SB61D-6-7-10B @ 1000
					POORLY GRADED SAND (SP) light grayish tan, wet, loose, fine grained. ▽	
	8.0					Boring terminated at 8'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-62 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3838977.6 N 288611.5 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/13/10 16:35 END : 5/13/10 16:40 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0 1.0	1.0	HA-1		**ORGANIC SOIL WITH SAND (OL/OH)** dark brown, moist, Spongy to Plastic, no sand, organic odor.	BBG-SS62-00-01-10B @ 1640
						Boring terminated at 1'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-63 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3837562.8 N 293380.9 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 6.7 ft bgs at time of drilling START : 5/18/10 08:30 END : 5/18/10 08:55 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**CLAYEY SAND (SC)** light grayish tan, dry, very loose, trace silt, trace clay, very fine grained.	BBG-SS63-00-01-10B @ 0840
					CLAYEY SAND (SC) grayish tan, dry to moist, medium dense, little clay, fine grained.	
		7.0	HA-1			
5					**POORLY GRADED SAND (SP)** light grayish tan, moist to wet, loose to medium dense, fine grained.	BBG-SB63-5.5-6.5-10B @ 0900
	7.0					Boring terminated at 7'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-64 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3833724.3 N 284273.9 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 2 ft bgs at time of drilling START : 5/20/10 18:10 END : 5/20/10 18:18 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** light brown, moist, loose.	BBG-SS64-00-01-10B @ 1815
		2.5	HA-1		**SILTY SAND (SM)** light brown, very moist to wet, loose, little silt.	BBG-SB64-1-2-10B @ 1820
	2.5					Boring terminated at 2.5'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-65 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3831195.9 N 290409.8 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 1 ft bgs at time of drilling START : 5/20/10 17:35 END : 5/20/10 17:45 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** very dark gray, very moist, loose.	BBG-SS65-00-01-10B @ 1740
		2.0	HA-1		▽	BBG-SB65-1-2-10B @ 1745
	2.0					Boring terminated at 2'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-66 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3830556.3 N 293874.0 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/20/10 17:15 END : 5/20/10 17:20 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0 1.0	1.0	HA-1		**SANDY ORGANIC SOIL (OL/OH)** very dark brown, wet, Spongy, salt marsh.	BBG-SS66-00-01-10B @ 1720
						Boring terminated at 1'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-67 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3829358.1 N 279901.5 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/18/10 17:00 END : 5/18/10 17:05 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0 1.0	1.0	HA-1		**ORGANIC SOIL WITH SAND (OL/OH)** very dark brown, very moist to wet, Spongy, organic odor, white fine grained sand @ 1 ft.	BBG-SS67-00-01-10B @ 1700
						Boring terminated at 1'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-68 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3828983.5 N 286648.1 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: --- START : 5/20/10 09:25 END : 5/20/10 09:30 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0 1.0	1.0	HA-1		**POORLY GRADED SAND-SILTY SAND (SP-SM)** dark gray, loose.	BBG-SS68-00-01-10B @ 0930
						Boring terminated at 1'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-69 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3829926.2 N 290494.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 3 ft bgs at time of drilling START : 5/20/10 16:10 END : 5/20/10 16:20 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** very dark brown, loose.	BBG-SS69-00-01-10B @ 1610
		4.0	HA-1		**POORLY GRADED SAND-SILTY SAND (SP-SM)** brownish tan, very moist, loose.	BBG-SB69-2-3-10B @ 1620
	4.0				**POORLY GRADED SAND (SP)** grayish tan, wet, loose.	Boring terminated at 4'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-70 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3827138.9 N 287439.3 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 2.3 ft bgs at time of drilling START : 5/20/10 12:00 END : 5/20/10 12:05 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** light gray, moist, very loose.	BBG-SS70-00-01-10B @ 1200
						BBG-SB70-1-2-10B @ 1210
		4.0	HA-1		**POORLY GRADED SAND (SP)** dark brown, moist to wet, loose, very fine grained. **POORLY GRADED SAND (SP)** light tan, wet, loose. ▽	
	4.0					Boring terminated at 4'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-71 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3846703.4 N 275086.5 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 5 ft bgs at time of drilling START : 5/19/10 07:30 END : 5/19/10 07:50 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** dark brown, dry to moist, loose, trace silt, very fine grained. **POORLY GRADED SAND (SP)** tan, moist, medium dense, fine grained. **CLAYEY SAND (SC)** gray, moist to wet, loose to medium dense, little clay, fine grained.	BBG-SS71-00-01-10B @ 0735 and BBG-SS71D-00-01-10B @ 0740
		6.0	HA-1			
5					**CLAYEY SAND (SC)** tan and orange, wet, loose to medium dense, little clay, fine grained. ▽	BBG-SB71-4-5-10B @ 0755 and BBG-SS71D-4-5-10B @ 0800
	6.0					Boring terminated at 6'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-72 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3845312.7 N 275811.9 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 6.5 ft bgs at time of drilling START : 5/19/10 08:25 END : 5/19/10 08:40 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** brown, moist, very loose, very fine grained.	BBG-SS72-00-01-10B @ 0835
					SILTY SAND (SM) light tan, moist, very loose, very fine grained.	
					POORLY GRADED SAND-SILTY SAND (SP-SM) light brown, moist, loose, trace silt, trace clay, fine grained.	
						BBG-SB72-2-3-10B @ 0845
		7.0	HA-1		**POORLY GRADED SAND (SP)** light tan with light brown, moist to wet, loose, fine grained.	
5						
	7.0					Boring terminated at 7'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-73 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3844906.5 N 278707.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 11.3 ft bgs at time of drilling START : 5/14/10 08:20 END : 5/17/10 15:15 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** light grayish tan, dry to moist, loose, very fine to fine grained.	BBG-SS73-00-01-10B @ 0825 ms/msd
					POORLY GRADED SAND (SP) tan, dry to moist, medium dense, trace clay, very fine grained.	
		8.0	HA-1			
5					**LEAN CLAY (CL)** gray with orange, moist, stiff, trace fine sand.	
	8.0					
					CLAYEY SAND (SC) gray and orange, moist, medium dense, some clay, very fine grained.	BBG-SB73-9-10-10B @ 1500 ms/sd
10		5.0	DP-1			
					POORLY GRADED SAND (SP) gray with orange, very moist to wet, loose to medium dense, trace clay, fine grained. ▽	
					CLAYEY SAND (SC) gray with orange, wet, little clay, very fine grained.	
	13.0					Boring terminated at 13'
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-74 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3845903.6 N 282126.1 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 7.6 ft bgs at time of drilling START : 5/14/10 10:05 END : 5/17/10 15:55 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** grayish brown, dry, very loose, very fine grained.	BBG-SS74-00-01-10B @ 1015
					SILTY SAND (SM) light tan, dry, very loose, very fine grained.	
					POORLY GRADED SAND (SP) tan, moist, medium dense, trace clay, fine grained.	Trash and metal debris in area
					CLAYEY SAND (SC) grayish tan, moist, medium dense, little clay, very fine grained.	
		8.0	HA-1		**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** light tan, moist, medium dense, trace clay, fine grained.	BBG-SB74-4-5-10B @ 1600
5					**POORLY GRADED SAND (SP)** white, moist, very loose, fine grained.	
	8.0				**POORLY GRADED SAND (SP)** orangeish tan, saturated, loose, fine grained.	Boring terminated at 8'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-75 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3846647.7 N 283152.9 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 5.5 ft bgs at time of drilling START : 5/17/10 16:25 END : 5/17/10 16:40 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**CLAYEY SAND (SC)** dark grayish brown, dry, loose, very fine grained.	BBG-SS75-00-01-10B @ 1635
		6.0	HA-1		**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** gray, moist, loose to medium dense, little clay, very fine grained.	BBG-SB75-3.5-4.5-10B @ 1645
5					**POORLY GRADED SAND (SP)** light tannish gray, wet, loose, fine grained. ▽	
	6.0					Boring terminated at 6'
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-76 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3842769.6 N 277220.1 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 8 ft bgs at time of drilling START : 5/19/10 09:45 END : 5/19/10 10:45 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** gray, dry, very loose, very fine grained.	BBG-SS76-00-01-10B @ 0955
					POORLY GRADED SAND (SP) light tan, dry, loose, very fine grained.	
					POORLY GRADED SAND (SP) light brown, moist, loose to medium dense, trace clay, trace silt, fine grained.	
		8.0	HA-1			
5					**SANDY LEAN CLAY (CL)** tan and gray, moist, medium stiff, little sand.	
					WELL GRADED SAND-CLAYEY SAND (SW-SC) orange, medium dense, little clay, trace silt, fine grained.	BBG-SB76-6-7-10B @ 1045
					POORLY GRADED SAND (SP) light brown, moist, loose, fine to medium grained.	
	8.0				▽ No recovery.	
10		2.0	DP-1			
					POORLY GRADED SAND (SP) tan to light tan, saturated, loose, fine to medium grained.	
	13.0					Boring terminated at 13'
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-77 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3841761.1 N 284312.6 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 4 ft bgs at time of drilling START : 5/13/10 12:00 END : 5/13/10 12:10 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** tannish gray, dry to moist, loose, very fine grained.	BBG-SS77-00-01-10B @ 1205
		4.0	HA-1		**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** tannish gray, moist to wet, loose, very fine grained, thin layer of trace clayey sand at 1.9 feet.	BBG-SB77-2.5-3.5-10B @ 1210
	4.0					Boring terminated at 4'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-78 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3838005.1 N 284220.3 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 8 ft bgs at time of drilling START : 5/13/10 09:25 END : 5/13/10 10:35 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**SILTY SAND (SM)** tan, dry, loose, very fine grained.	BBG-SS78-00-01-10B @ 0930
					CLAYEY SAND (SC) tan, dry to moist, medium dense, little clay, fine to v. Fine grained.	
		8.0	HA-1			BBG-SB78-3.5-4.5-10B @ 1040
5					**POORLY GRADED SAND (SP)** light tan, moist to wet, loose, fine grained.	
	8.0				**POORLY GRADED SAND (SP)** tan, wet, loose, fine grained.	Boring terminated at 8'
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-79 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3836893.0 N 287459.3 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 12.2 ft bgs at time of drilling START : 5/13/10 15:00 END : 5/13/10 15:35 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** gray, moist, loose, trace silt, fine to very fine grained.	BBG-SS79-00-01-10B @ 1510
					POORLY GRADED SAND (SP) light tan, moist, loose, fine grained.	
		8.0	HA-1			
5					**POORLY GRADED SAND (SP)** light tan with orange, medium dense, trace clay.	
					POORLY GRADED SAND (SP) light tan, moist, loose, fine grained.	
	8.0				No Recovery.	
10					**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** light tan, moist, loose, fine grained.	
		3.5	DP-1			BBG-SB79-11-12-10B @ 1530
					CLAYEY SAND (SC) light tan with orange, moist, medium dense, some clay, very fine grained.	
					POORLY GRADED SAND (SP) light tan, wet, loose, fine grained.	
	13.0					Boring terminated at 13'
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-80 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3830293.9 N 275481.7 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 4.5 ft bgs at time of drilling START : 5/12/10 07:50 END : 5/12/10 08:00 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** dark brown, moist, loose, trace silt, very fine grained.	BBG-SS80-00-01-10B @ 0755
		5.0	HA-1		**POORLY GRADED SAND (SP)** tan, moist to wet, loose, fine grained.	BBG-SB80-3-4-10B @ 0800
5	5.0				**POORLY GRADED SAND (SP)** light gray, wet, loose, fine grained.	Boring terminated at 5'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-81 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3830190.6 N 282095.7 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 6.5 ft bgs at time of drilling START : 5/18/10 16:00 END : 5/18/10 16:20 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** gray, dry, very loose, very fine grained.	BBG-SS81-00-01-10B @ 1600
					POORLY GRADED SAND (SP) light tan, dry, loose, very fine grained. **POORLY GRADED SAND (SP)** light brown, moist, loose, trace silt, very fine grained.	
		7.0	HA-1		**POORLY GRADED SAND (SP)** grayish tan, very moist to wet, loose, fine grained.	
5						BBG-SB81-5-6-10B @ 1620
	7.0					Boring terminated at 7'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-82 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3829572.7 N 283477.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 7.5 ft bgs at time of drilling START : 5/21/10 08:15 END : 5/21/10 08:20 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** brown, dry, very loose, trace silt, very fine grained, gravel pieces @ 1.	BBG-SS82-00-01-10B @ 0825 & BBG-SS82D-00-01-10B @ 0830
					POORLY GRADED SAND (SP) light tan, moist, loose, fine grained.	
					POORLY GRADED SAND-SILTY SAND (SP-SM) light brown, moist, loose to medium dense, trace clay, trace silt, fine grained.	BBG-SB82-2-3-10B @ 0840 & BBG-SB82D-2-3-10B @ 0845
					POORLY GRADED SAND (SP) tan, moist, loose to medium dense, trace clay, fine grained.	
		8.0	HA-1			
5						
					POORLY GRADED SAND (SP) tan, wet, loose, fine grained. ▽	
	8.0					Boring terminated at 8'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-83 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3836278.8 N 285791.3 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 7.7 ft bgs at time of drilling START : 5/13/10 15:50 END : 5/13/10 16:05 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** medium brownish gray, dry, very loose, trace silt, very fine grained.	BBG-SS83-00-01-10B @ 1555
					POORLY GRADED SAND (SP) tan, moist, loose, trace clay, fine grained.	
					POORLY GRADED SAND (SP) tan, moist, loose, fine grained.	
		8.0	HA-1		**POORLY GRADED SAND (SP)** light tan, moist to wet, loose, fine grained.	
5						BBG-SB83-6.5-7.5-10B @ 1605
	8.0					Boring terminated at 8'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-84 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3846379.9 N 279349.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 7 ft bgs at time of drilling START : 5/14/10 08:50 END : 5/14/10 09:10 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** dark grayish brown, moist, loose, fine grained. **POORLY GRADED SAND (SP)** tan and light gray, moist, loose, fine grained.	BBG-SS84-00-01-10B.@ 0855
		8.0	HA-1			
5					**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** tan and light gray, moist, loose, trace clay, trace silt, fine grained.	
					CLAYEY SAND (SC) tan and light gray, moist to wet, loose to medium dense, some clay, very fine grained. ▽	BBG-SB84-6-7-10B @ 0905
	8.0					Boring terminated at 8'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-85 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3843552.6 N 285567.9 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 2.7 ft bgs at time of drilling START : 5/13/10 07:30 END : 5/13/10 07:50 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** dark brownish gray, moist, loose, trace silt, fine grained.	BBG-SS85-00-01-10B @ 0740
		4.0	HA-1		**POORLY GRADED SAND (SP)** light tan, moist to wet, loose, fine grained. ▽	BBG-SB85-1.5-2.5-10B @ 0745 MS/MSD
	4.0				**POORLY GRADED SAND (SP)** gray, wet, loose, fine grained.	Boring terminated at 4'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

CH2MHILL

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-86 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3845386.7 N 285801.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 4.5 ft bgs at time of drilling START : 5/14/10 10:55 END : 5/14/10 11:15 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** dark brown, dry, medium dense, trace clay, very fine grained.	BBG-SS86-00-01-10B @ 1105
					CLAYEY SAND (SC) orangeish tan and light gray, moist, loose, little clay, fine grained.	
		5.0	HA-1			
					POORLY GRADED SAND-CLAYEY SAND (SP-SC) orangeish tan, moist, loose, little clay, trace silt, fine grained.	BBG-SB86-3-4-10B @ 1115
					POORLY GRADED SAND (SP) light gray, wet, loose, fine grained. ▽	
5	5.0					Boring terminated at 5'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-87 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3844087.4 N 274825.4 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 4 ft bgs at time of drilling START : 5/19/10 11:40 END : 5/19/10 11:50 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** brownish black, moist, medium dense, trace silt, very fine grained.	BBG-SS87-00-01-10B @ 1145
		4.5	HA-1		**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** tan, very moist, medium dense, trace clay, trace silt, fine grained.	BBG-SB87-3-4-10B @ 1155
	4.5					Boring terminated at 4.5'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-88 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3843733.9 N 277095.0 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 4.5 ft bgs at time of drilling START : 5/19/10 09:05 END : 5/19/10 09:25 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**CLAYEY SAND (SC)** brown, dry, loose, trace silt, trace clay, very fine grained.	BBG-SS88-00-01-10B @ 0910
					CLAYEY SAND (SC) grayish brown with reddish orange, moist, stiff.	
		5.0	HA-1			BBG-SB88-2.5-3.5-10B @ 0925
					SANDY LEAN CLAY (CL) grayish brown with reddish orange, very moist, stiff, some fine sand. **POORLY GRADED SAND (SP)** orangeish tan, wet, loose, trace silt, fine grained. ▽	
5	5.0					Boring terminated at 5'
10						
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-89 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3844054.3 N 284037.9 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 9.7 ft bgs at time of drilling START : 5/13/10 08:20 END : 5/13/10 08:45 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND-SILTY SAND (SP-SM)** tan, dry to moist, loose, fine grained.	BBG-SS89-00-01-10B @ 0825
					POORLY GRADED SAND (SP) light brown, moist, medium dense, trace clay, fine grained.	
		5.0	HA-1		**POORLY GRADED SAND (SP)** light brown to tan, moist, loose, fine grained.	
5	5.0				No recovery.	
					POORLY GRADED SAND-CLAYEY SAND (SP-SC) light brown, moist, loose, trace clay, fine grained.	
		3.8	DP-1		**POORLY GRADED SAND-CLAYEY SAND (SP-SC)** light brown to light tan, moist to wet, loose, fine grained.	BBG-SB89-7.5-8.5-10B @ 0845
10	10.0				▽	Boring terminated at 10'
15						

HA - Hand Auger
DP - Direct Push

PROJECT NUMBER:	BORING NUMBER:
CTO-94	BBG-90 SHEET 1 OF 1

Soil Boring Log

CLIENT: NAVFAC PROJECT : Base Background Study DPT LOCATION : MCB CamLej, North Carolina

ELEVATION : DRILLING CONTRACTOR : Probe Technologies

COORDINATES : 3829351.9 N 282765.7 E DRILLING METHOD AND EQUIPMENT : DPT with Geoprobe 6620DT, Macro-core samplers

WATER LEVEL: 3 ft bgs at time of drilling START : 5/19/10 14:50 END : 5/19/10 14:55 LOGGER : K Rogers

DEPTH BELOW GROUND SURFACE (ft)	INTERVAL (ft)	RECOVERY (ft)	Sample ID	GRAPHIC LOG	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR , MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, & INSTRUMENTATION
	0.0				**POORLY GRADED SAND (SP)** gray, moist, loose, fine grained.	BBG-SS90-00-01-10B @ 1455
					SILTY SAND (SM) brownish black, moist, loose, some silt, very fine grained.	
		4.0	HA-1		**POORLY GRADED SAND (SP)** dark brown, very moist, loose, very fine grained.	BBG-SB90-2-3-10B @ 1500
					▽ **POORLY GRADED SAND (SP)** tan, wet, loose, fine to medium grained.	
	4.0					Boring terminated at 4'
5						
10						
15						

HA - Hand Auger
DP - Direct Push

Appendix B
Laboratory and Data Validation Reports

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005129
Fraction: Inorganic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. One matrix spike/matrix spike duplicate sample was submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for metals and hexavelent chromium. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 2004 and " Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

These documents specify procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/29/2010
Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody (COC) documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following positive results are considered to be nondetect due to the presence of these analytes in the associated continuing calibration blanks and/or preparation blanks presented in Table 2. The analytes were detected in the associated continuing calibration blanks and/or preparation blanks at levels less than the reporting limit (RL), indicating the possibility of a false positive at this level. The affected results for these samples are less than the RL. Replacing the sample result with the RL and marking it "U" has indicated this.

Analyte	Affected Samples
Antimony	BBG-SB55-2.5-3-10B, BBG-SS54-0-1-10B, BBG-SB54-4-5-10B, BBG-SB53-7-8-10B, BBG-SS80-0-1-10B, BBG-SB80-3-4-10B, BBG-SB56-3-4-10B, BBG-SS52-0-1-10B, BBG-SS57-0-1-10B, BBG-SS60-0-1-10B, BBG-SS59-0-1-10B, BBG-SB59-9-10-10B, BBG-SS89-0-1-10B, BBG-SS78-0-1-10B
Beryllium	BBG-SB59-9-10-10B, BBG-SS85-0-1-10B, BBG-SB89-6.5-7.5-10B, BBG-SS78-0-1-10B
Calcium	BBG-SB55-2.5-3-10B, BBG-SS54-0-1-10B, BBG-SB54-4-5-10B, BBG-SS53-0-1-10B, BBG-SS53-0-1-10B, BBG-SB53-7-8-10B, BBG-SB80-3-4-10B, BBG-SB56-3-4-10B, BBG-SS58-0-1-10B, BBG-SS52-0-1-10B, BBG-SS57-0-1-10B, BBG-SS60-0-1-10B, BBG-SS59-0-1-10B, BBG-SB59-9-10-10B, BBG-SS85-0-1-10B, BBG-SS89-0-1-10B, BBG-SB89-6.5-7.5-10B
Copper	BBG-SB55-2.5-3-10B, BBG-SS53-0-1-10B, BBG-SS58-0-1-10B, BBG-SS59-0-1-10B
Magnesium	BBG-SS55-00-01-10B, BBG-SB55-2.5-3-10B, BBG-SS54-0-1-10B, BBG-SS53-0-1-10B, BBG-SB53-7-8-10B, BBG-SS80-0-1-10B, BBG-SB80-3-4-10B, BBG-SS56-0-1-10B, BBG-SB56-3-4-10B, BBG-SS58-0-1-10B, BBG-SS52-0-1-10B, BBG-SS57-0-1-10B, BBG-SS60-0-1-10B, BBG-SS59-0-1-10B, BBG-SB59-9-10-10B, BBG-SS85-0-1-10B, BBG-SS89-0-1-10B, BBG-SB89-6.5-7.5-10B, BBG-SS78-0-1-10B
Potassium	BBG-SS54-0-1-10B, BBG-SB54-4-5-10B, BBG-SB53-7-8-10B, BBG-SB56-3-4-10B, BBG-SB59-9-10-10B, BBG-SS85-0-1-10B, BBG-SB89-6.5-7.5-10B, BBG-SS78-0-1-10B
Selenium	BBG-SB54-4-5-10B, BBG-SB80-3-4-10B, BBG-SB56-3-4-10B, BBG-SS52-0-1-10B, BBG-SS57-0-1-10B, BBG-SS60-0-1-10B
Sodium	BBG-SS55-00-01-10B, BBG-SB55-2.5-3-10B, BBG-SS54-0-1-10B, BBG-SB54-4-5-10B, BBG-SS53-0-1-10B, BBG-SB53-7-8-10B, BBG-SS80-0-1-10B, BBG-SB80-3-4-10B, BBG-SS56-0-1-10B, BBG-SB56-3-4-10B, BBG-SS58-0-1-10B, BBG-SS52-0-1-10B, BBG-SS57-0-1-10B, BBG-SS60-0-1-10B, BBG-SS59-0-1-10B, BBG-SB59-9-10-10B, BBG-SS85-0-1-10B, BBG-SS89-0-1-10B, BBG-SB89-6.5-7.5-10B, BBG-SS78-0-1-10B

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

All criteria were met. No qualifiers were applied.

10.0 FIELD DUPLICATE RESULTS

There were no field duplicate samples submitted with this SDG.

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Metals (Except Mercury)	Method 6010B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Mercury	Method 7471A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Hexavalent Chromium	Method 7196A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS55-00-01-10B	1005129	1005129-01	5/11/2010	Soil	X	X	X		X	X
BBG-SB55-2.5-3-10B	1005129	1005129-02	5/11/2010	Soil	X	X	X		X	X
BBG-SS54-0-1-10B	1005129	1005129-03	5/11/2010	Soil	X	X	X		X	X
BBG-SB54-4-5-10B	1005129	1005129-04	5/11/2010	Soil	X	X	X		X	X
BBG-SS53-0-1-10B	1005129	1005129-05	5/11/2010	Soil	X	X	X		X	X
BBG-SB53-7-8-10B	1005129	1005129-06	5/11/2010	Soil	X	X	X		X	X
BBG-SS80-0-1-10B	1005129	1005129-07	5/12/2010	Soil	X	X	X		X	X
BBG-SB80-3-4-10B	1005129	1005129-08	5/12/2010	Soil	X	X	X		X	X
BBG-SS56-0-1-10B	1005129	1005129-09	5/11/2010	Soil	X	X	X		X	X
BBG-SB56-3-4-10B	1005129	1005129-10	5/11/2010	Soil	X	X	X		X	X
BBG-SS58-0-1-10B	1005129	1005129-11	5/12/2010	Soil	X	X	X		X	X
BBG-SS52-0-1-10B	1005129	1005129-12	5/11/2010	Soil	X	X	X		X	X
BBG-SS57-0-1-10B	1005129	1005129-13	5/12/2010	Soil	X	X	X		X	X
BBG-SS60-0-1-10B	1005129	1005129-14	5/12/2010	Soil	X	X	X		X	X
BBG-SS59-0-1-10B	1005129	1005129-15	5/12/2010	Soil	X	X	X		X	X
BBG-SB59-9-10-10B	1005129	1005129-16	5/12/2010	Soil	X	X	X		X	X
BBG-SS85-0-1-10B	1005129	1005129-17	5/13/2010	Soil	X	X	X		X	X
BBG-SS89-0-1-10B	1005129	1005129-18	5/13/2010	Soil	X	X	X		X	X
BBG-SB89-6.5-7.5-10B	1005129	1005129-19	5/13/2010	Soil	X	X	X		X	X
BBG-SS78-0-1-10B	1005129	1005129-20	5/13/2010	Soil	X	X	X		X	X

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
PB	Aluminum	1.156 J mg/Kg	All Samples
	Antimony	0.347 J mg/Kg	
	Cadmium	-0.073 J mg/Kg	
	Calcium	44.683 J mg/Kg	
	Cobalt	-0.337 J mg/Kg	
	Copper	0.129 J mg/Kg	
	Lead	0.248 J mg/Kg	
	Magnesium	1.562 J mg/Kg	
	Manganese	0.064 J mg/Kg	
	Potassium	-142.301 J mg/Kg	
	Sodium	27.909 J mg/Kg	
CCB3	Calcium	390.7 J µg/L	SS53-0-1, SS55-00-01, SB55-00-2.5-3, SS54-0-1, SB54-4-5
	Cobalt	-2.5 J µg/L	
	Copper	-1 J µg/L	
	Magnesium	19.6 J µg/L	
	Manganese	0.3 J µg/L	
	Potassium	-1429.9 J µg/L	
	Selenium	2.4 J µg/L	
	Thallium	6.1 J µg/L	
CCB4	Calcium	381.1 J µg/L	SS53-0-1, SS55-00-01, SB55-00-2.5-3, SS54-0-1, SB54-4-5,
	Cobalt	-3 J µg/L	SB53-7-8, SS80-0-1, SB80-3-4, SS56-0-1, SB56-3-4, SS58-0-1,
	Copper	-1.3 J µg/L	SS52-0-1, SS57-0-1, SS60-00-01, SS59-00-01
	Magnesium	10.3 J µg/L	
	Manganese	0.2 J µg/L	
	Potassium	-1430.7 J µg/L	
CCB5	Calcium	381.3 J µg/L	SB53-7-8, SS80-0-1, SB80-3-4, SS56-0-1, SB56-3-4, SS58-0-1,
	Cobalt	-2.9 J µg/L	SS52-0-1, SS57-0-1, SS60-00-01, SS59-00-01, SB59-9-10,

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
	Copper	-1.3 J µg/L	SS85-0-1, SS89-0-1, SB89-6.5-7.5, SS78-0-1
	Magnesium	10.8 J µg/L	
	Manganese	0.2 J µg/L	
	Potassium	-1427.7 J µg/L	
	Selenium	2.2 J µg/L	
	Thallium	4.1 J µg/L	
CCB6	Aluminum	-31.8 J µg/L	SB59-9-10, SS85-0-1, SS89-0-1, SB89-6.5-7.5, SS78-0-1
	Beryllium	-0.8 J µg/L	
	Calcium	373.6 J µg/L	
	Cobalt	-2.9 J µg/L	
	Copper	-1.5 J µg/L	
	Potassium	-1443.1 J µg/L	

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS55-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-01RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 66.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	442			P
7440-36-0	Antimony	1.7			P
7440-38-2	Arsenic	1.5	U		P
7440-39-3	Barium	5.1	~~B~~	J	P
7440-41-7	Beryllium	0.75	U		P
7440-43-9	Cadmium	0.75	U		P
7440-70-2	Calcium	3960		—	P
7440-47-3	Chromium	1.2	~~B~~	J	P
7440-48-4	Cobalt	0.75	U		P
7440-50-8	Copper	12.8			P
7439-89-6	Iron	439			P
7439-92-1	Lead	4.9			P
7439-95-4	Magnesium	152 ~~64.0~~	~~B~~	U	P
7439-96-5.	Manganese	4.9			P
7439-97-6	Mercury	0.024	~~B~~	J	CV
7440-02-0	Nickel	0.75	~~B~~	J	P
7440-09-7	Potassium	752	U		P
7782-49-2	Selenium	0.53	~~B~~	J	P
7440-22-4	Silver	0.75	U		P
7440-23-5	Sodium	752 ~~75.1~~	~~B~~	U	P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.2	~~B~~	J	P
7440-66-6	Zinc	7.7			P

MBL

MBL

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

5/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB55-00-2.5-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-02RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 80.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1290			P	
7440-36-0	Antimony	1.2 ~~1.0~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	1.2	U		P	
7440-39-3	Barium	1.5	~~B~~	J	P	
7440-41-7	Beryllium	0.62	U		P	
7440-43-9	Cadmium	0.62	U		P	
7440-70-2	Calcium	622 ~~273~~	~~B~~	U	P	MBL
7440-47-3	Chromium	2.4			P	
7440-48-4	Cobalt	0.62	U		P	
7440-50-8	Copper	0.63 ~~0.21~~	~~B~~	U	P	MBL
7439-89-6	Iron	342			P	
7439-92-1	Lead	2.0			P	
7439-95-4	Magnesium	622 ~~41.6~~	~~B~~	U	P	MBL
7439-96-5	Manganese	1.5			P	
7439-97-6	Mercury	0.011	~~B~~	J	CV	
7440-02-0	Nickel	0.47	~~B~~	J	P	
7440-09-7	Potassium	622	U		P	
7782-49-2	Selenium	0.62	U		P	
7440-22-4	Silver	0.62	U		P	
7440-23-5	Sodium	622 ~~44.8~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	1.8	~~B~~	J	P	
7440-66-6	Zinc	1.6	~~B~~	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMT 8/14/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS54-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-03RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7050			P
7440-36-0	Antimony	1.1 0.88	~~B~~	U	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	8.8	B		P
7440-41-7	Beryllium	0.06	B		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	539 ~~252~~	~~B~~	U	P
7440-47-3	Chromium	6.4			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	2040			P
7439-92-1	Lead	5.3			P
7439-95-4	Magnesium	539 ~~172~~	~~B~~	U	P
7439-96-5	Manganese	5.8			P
7439-97-6	Mercury	0.035	B		CV
7440-02-0	Nickel	1.3			P
7440-09-7	Potassium	539 ~~35.9~~	~~B~~	U	P
7782-49-2	Selenium	0.32	B		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	539 ~~57.7~~	~~B~~	U	P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	8.6			P
7440-66-6	Zinc	6.3			P

MBC

MBC

MBC

MBC

MBC

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

6/17/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB54-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-04RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 82.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13500			P	
7440-36-0	Antimony	1.2 ~~0.99~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	0.90	~~B~~	J	P	
7440-39-3	Barium	14.6	~~B~~	J	P	
7440-41-7	Beryllium	0.60	U		P	
7440-43-9	Cadmium	0.60	U		P	
7440-70-2	Calcium	601 ~~194~~	~~B~~	U	P	MBL
7440-47-3	Chromium	14.6			P	
7440-48-4	Cobalt	0.60	U		P	
7440-50-8	Copper	1.1			P	
7439-89-6	Iron	6100			P	
7439-92-1	Lead	7.0			P	
7439-95-4	Magnesium	474	~~B~~	J	P	
7439-96-5	Manganese	7.4			P	
7439-97-6	Mercury	0.015	~~B~~	J	CV	
7440-02-0	Nickel	2.2			P	
7440-09-7	Potassium	601 ~~304~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.60 ~~0.49~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.60	U		P	
7440-23-5	Sodium	601 ~~66.7~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	18.4			P	
7440-66-6	Zinc	5.8			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SM 6/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS53-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-05RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 74.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1900			P	
7440-36-0	Antimony	1.4			P	
7440-38-2	Arsenic	1.3	U		P	
7440-39-3	Barium	3.8	~~B~~	J	P	
7440-41-7	Beryllium	0.67	U		P	
7440-43-9	Cadmium	0.67	U		P	
7440-70-2	Calcium	669 ~~111~~	~~B~~	U	P	MBL
7440-47-3	Chromium	1.8			P	
7440-48-4	Cobalt	0.67	U		P	
7440-50-8	Copper	0.67 ~~0.58~~	~~B~~	U	P	MBL
7439-89-6	Iron	996			P	
7439-92-1	Lead	3.5			P	
7439-95-4	Magnesium	669 ~~65.8~~	~~B~~	U	P	MBL
7439-96-5	Manganese	3.5			P	
7439-97-6	Mercury	0.021	~~B~~	J	CV	
7440-02-0	Nickel	0.59	~~B~~	J	P	
7440-09-7	Potassium	669	U		P	
7782-49-2	Selenium	0.67	U		P	
7440-22-4	Silver	0.67	U		P	
7440-23-5	Sodium	669 ~~63.4~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.3	U		P	
7440-62-2	Vanadium	2.4	~~B~~	J	P	
7440-66-6	Zinc	3.0			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 8/19/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB53-7-8

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-06RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5090			P	
7440-36-0	Antimony	1.2 ~~1.2~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	3.9			P	
7440-39-3	Barium	5.2	~~B~~	J	P	
7440-41-7	Beryllium	0.61	U		P	
7440-43-9	Cadmium	0.61	U		P	
7440-70-2	Calcium	607 ~~94.0~~	~~B~~	U	P	MBL
7440-47-3	Chromium	7.1			P	
7440-48-4	Cobalt	0.61	U		P	
7440-50-8	Copper	0.85			P	
7439-89-6	Iron	4710			P	
7439-92-1	Lead	4.5			P	
7439-95-4	Magnesium	607 ~~168~~	~~B~~	U	P	MBL
7439-96-5	Manganese	5.2			P	
7439-97-6	Mercury	0.042	U		CV	
7440-02-0	Nickel	0.76			P	
7440-09-7	Potassium	607 ~~96.5~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.67			P	
7440-22-4	Silver	0.61	U		P	
7440-23-5	Sodium	607 ~~47.5~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	13.0			P	
7440-66-6	Zinc	3.2			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SM 8/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS80-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-07RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1980			P
7440-36-0	Antimony	1.2 ~~1.1~~	~~B~~	U	P
7440-38-2	Arsenic	~~1.2~~	U		P
7440-39-3	Barium	4.7	~~B~~	J	P
7440-41-7	Beryllium	0.61	U		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	1500			P
7440-47-3	Chromium	3.7			P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	809			P
7439-92-1	Lead	4.6			P
7439-95-4	Magnesium	608 ~~84.6~~	~~B~~	U	P
7439-96-5	Manganese	~~8.4~~			P
7439-97-6	Mercury	0.017	~~B~~	J	CV
7440-02-0	Nickel	0.92			P
7440-09-7	Potassium	608	U		P
7782-49-2	Selenium	0.61	U		P
7440-22-4	Silver	0.05	~~B~~	J	P
7440-23-5	Sodium	608 ~~64.9~~	~~B~~	U	P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	2.9			P
7440-66-6	Zinc	3.7			P

MDL

MDL

MDL

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

5/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB80-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-08RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1990			P	
7440-36-0	Antimony	1.1 ~~1.0~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	2.0	~~B~~	J	P	
7440-41-7	Beryllium	0.57	U		P	
7440-43-9	Cadmium	0.57	U		P	
7440-70-2	Calcium	567 ~~104~~	~~B~~	U	P	MBL
7440-47-3	Chromium	2.7			P	
7440-48-4	Cobalt	0.57	U		P	
7440-50-8	Copper	0.75			P	
7439-89-6	Iron	1320			P	
7439-92-1	Lead	1.9			P	
7439-95-4	Magnesium	567 ~~46.2~~	~~B~~	U	P	MBL
7439-96-5	Manganese	1.4			P	
7439-97-6	Mercury	0.038	U		CV	
7440-02-0	Nickel	0.60			P	
7440-09-7	Potassium	567	U		P	
7782-49-2	Selenium	0.57 ~~0.38~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.57	U		P	
7440-23-5	Sodium	567 ~~47.7~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	3.5			P	
7440-66-6	Zinc	2.6			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SM 8/16/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS56-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-09RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7700			P	
7440-36-0	Antimony	1.4			P	
7440-38-2	Arsenic	0.56	~~B~~	J	P	
7440-39-3	Barium	13.4	~~B~~	J	P	
7440-41-7	Beryllium	0.61	U		P	
7440-43-9	Cadmium	0.61	U		P	
7440-70-2	Calcium	1840			P	
7440-47-3	Chromium	6.1			P	
7440-48-4	Cobalt	0.61	U		P	
7440-50-8	Copper	2.4			P	
7439-89-6	Iron	5990			P	
7439-92-1	Lead	7.1			P	
7439-95-4	Magnesium	6/2 161	~~B~~	U	P	MBL
7439-96-5	Manganese	~~5.4~~			P	
7439-97-6	Mercury	0.041			CV	
7440-02-0	Nickel	1.3			P	
7440-09-7	Potassium	612	U		P	
7782-49-2	Selenium	0.70			P	
7440-22-4	Silver	0.61	U		P	
7440-23-5	Sodium	6/2 ~~55.6~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	8.5			P	
7440-66-6	Zinc	3.2			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 8/16/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB56-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-10RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 81.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12900			P	
7440-36-0	Antimony	1.2 ~~1.1~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	1.2	U		P	
7440-39-3	Barium	12.5	~~B~~	J	P	
7440-41-7	Beryllium	0.61	U		P	
7440-43-9	Cadmium	0.61	U		P	
7440-70-2	Calcium	607 ~~390~~	~~B~~	U	P	MBL
7440-47-3	Chromium	12.7			P	
7440-48-4	Cobalt	0.61	U		P	
7440-50-8	Copper	0.96			P	
7439-89-6	Iron	3550			P	
7439-92-1	Lead	8.3			P	
7439-95-4	Magnesium	607 ~~334~~	~~B~~	U	P	MBL
7439-96-5	Manganese	6.0			P	
7439-97-6	Mercury	0.023	~~B~~	J	CV	
7440-02-0	Nickel	1.6			P	
7440-09-7	Potassium	607 ~~164~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.61 ~~0.31~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.61	U		P	
7440-23-5	Sodium	607 ~~62.9~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	19.5	✓	✓	P	
7440-66-6	Zinc	3.4	✓		P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: SMM 6/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS58-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-11RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 95.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	367			P
7440-36-0	Antimony	1.1			P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	1.7	~~B~~	J	P
7440-41-7	Beryllium	0.52	U		P
7440-43-9	Cadmium	0.52	U		P
7440-70-2	Calcium	524 ~~72.0~~	~~B~~	U	P
7440-47-3	Chromium	0.83	~~B~~	J	P
7440-48-4	Cobalt	0.52	U		P
7440-50-8	Copper	0.52 ~~0.09~~	~~B~~	U	P
7439-89-6	Iron	273			P
7439-92-1	Lead	0.91			P
7439-95-4	Magnesium	524 ~~14.2~~	~~B~~	U	P
7439-96-5	Manganese	1.8			P
7439-97-6	Mercury	0.035	U		CV
7440-02-0	Nickel	0.19	~~B~~	J	P
7440-09-7	Potassium	524	U		P
7782-49-2	Selenium	0.52	U		P
7440-22-4	Silver	0.52	U		P
7440-23-5	Sodium	524 ~~47.7~~	~~B~~	U	P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	0.68	~~B~~	J	P
7440-66-6	Zinc	0.90	~~B~~	J	P

MBL

MBL

MBL

MBL

SMM 8/16/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS52-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-12RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	501			P	
7440-36-0	Antimony	1.2 ~~1.0~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	1.2	U		P	
7440-39-3	Barium	11.8	~~B~~ ✓	J	P	
7440-41-7	Beryllium	0.60	U		P	
7440-43-9	Cadmium	0.60	U		P	
7440-70-2	Calcium	603 ~~315~~	~~B~~	J	P	MBL
7440-47-3	Chromium	1.2	~~B~~ ✓	J	P	
7440-48-4	Cobalt	0.60	U		P	
7440-50-8	Copper	0.73			P	
7439-89-6	Iron	213			P	
7439-92-1	Lead	1.9			P	
7439-95-4	Magnesium	603 ~~43.0~~	~~B~~	U	P	MBL
7439-96-5	Manganese	2.1			P	
7439-97-6	Mercury	0.041	U		CV	
7440-02-0	Nickel	0.34	~~B~~ ✓	J	P	
7440-09-7	Potassium	603	U		P	
7782-49-2	Selenium	0.60 ~~0.39~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.60	U		P	
7440-23-5	Sodium	603 ~~75.1~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	1.0	~~B~~ ✓	✓ J	P	
7440-66-6	Zinc	1.1	~~B~~ ✓	✓ J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMM 6/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS57-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-13RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 78.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	733			P	
7440-36-0	Antimony	13 ~~1.2~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	1.3	U		P	
7440-39-3	Barium	1.5	~~B~~	J	P	
7440-41-7	Beryllium	0.63	U		P	
7440-43-9	Cadmium	0.63	U		P	
7440-70-2	Calcium	629 ~~225~~	~~B~~	U	P	MBL
7440-47-3	Chromium	1.5			P	
7440-48-4	Cobalt	0.63	U		P	
7440-50-8	Copper	0.72			P	
7439-89-6	Iron	273			P	
7439-92-1	Lead	2.4			P	
7439-95-4	Magnesium	629 ~~30.7~~	~~B~~	U	P	MBL
7439-96-5	Manganese	2.7			P	
7439-97-6	Mercury	0.010	~~B~~	~~J~~	CV	
7440-02-0	Nickel	0.38	~~B~~	J	P	
7440-09-7	Potassium	629	U		P	
7782-49-2	Selenium	0.63 ~~0.44~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.63	U		P	
7440-23-5	Sodium	629 ~~61.2~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.3	U		P	
7440-62-2	Vanadium	1.7	~~B~~	J	P	
7440-66-6	Zinc	1.5	~~B~~	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SDM 8/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS60-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-14RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1280			P
7440-36-0	Antimony	1.1 ~~1.1~~	~~B~~	U	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	4.8	~~B~~	J	P
7440-41-7	Beryllium	0.54	U		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	544 ~~205~~	~~B~~	U	P
7440-47-3	Chromium	1.5			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	0.78			P
7439-89-6	Iron	327			P
7439-92-1	Lead	2.8			P
7439-95-4	Magnesium	544 ~~45.5~~	~~B~~	U	P
7439-96-5	Manganese	4.3			P
7439-97-6	Mercury	0.009	~~B~~	J	CV
7440-02-0	Nickel	0.53	~~B~~	J	P
7440-09-7	Potassium	544	U		P
7782-49-2	Selenium	0.54 ~~0.38~~	~~B~~	U	P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	544 ~~40.5~~	~~B~~	U	P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	2.1	~~B~~	J	P
7440-66-6	Zinc	2.5			P

MBL

MBL

MBL

MBL

MBL

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMT 6/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS59-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-15RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1170			P
7440-36-0	Antimony	1.0 ~~0.97~~	~~B~~	U	P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	8.0	~~B~~	J	P
7440-41-7	Beryllium	0.51	U		P
7440-43-9	Cadmium	0.51	U		P
7440-70-2	Calcium	510 ~~227~~	~~B~~	U	P
7440-47-3	Chromium	1.7	✓		P
7440-48-4	Cobalt	0.51	U		P
7440-50-8	Copper	0.51 ~~0.49~~	~~B~~	U	P
7439-89-6	Iron	903			P
7439-92-1	Lead	3.8			P
7439-95-4	Magnesium	510 ~~66.5~~	~~B~~	U	P
7439-96-5	Manganese	7.4			P
7439-97-6	Mercury	0.035	U		CV
7440-02-0	Nickel	0.43	B		P
7440-09-7	Potassium	510	U		P
7782-49-2	Selenium	0.51	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	510 ~~58.4~~	~~B~~	U	P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	2.7			P
7440-66-6	Zinc	1.8	~~B~~	J	P

MBL

MBL

MBL

MBL

BL

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 5/14/2010

Comments:

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB59-9-10

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-16RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7570			P	
7440-36-0	Antimony	1.3 ~~0.92~~	~~B~~	U	P	BL
7440-38-2	Arsenic	~~3.6~~			P	
7440-39-3	Barium	8.5	~~B~~	J	P	
7440-41-7	Beryllium	0.64 ~~0.10~~	~~B~~	U	P	BL
7440-43-9	Cadmium	0.64	U		P	
7440-70-2	Calcium	641 ~~141~~	~~B~~	U	P	BL
7440-47-3	Chromium	14.1			P	
7440-48-4	Cobalt	0.64	U		P	
7440-50-8	Copper	1.9			P	
7439-89-6	Iron	8280			P	
7439-92-1	Lead	6.9			P	
7439-95-4	Magnesium	641 ~~457~~	~~B~~	U	P	BL
7439-96-5	Manganese	8.5			P	
7439-97-6	Mercury	0.042	U		CV	
7440-02-0	Nickel	1.3			P	
7440-09-7	Potassium	641 ~~575~~	~~B~~	U	P	BL
7782-49-2	Selenium	0.70			P	
7440-22-4	Silver	0.64	U		P	
7440-23-5	Sodium	641 ~~73.8~~	~~B~~	U	P	BL
7440-28-0	Thallium	1.3	U		P	
7440-62-2	Vanadium	24.9			P	
7440-66-6	Zinc	5.5			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMK 6/16/10

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS85-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-17RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6030	✓		P	
7440-36-0	Antimony	1.2			P	
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	6.8	~~B~~	J	P	
7440-41-7	Beryllium	0.56 ~~0.04~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.56	U		P	
7440-70-2	Calcium	556 ~~135~~	~~B~~	U	P	MBL
7440-47-3	Chromium	5.2			P	
7440-48-4	Cobalt	0.56	U		P	
7440-50-8	Copper	0.75			P	
7439-89-6	Iron	819			P	
7439-92-1	Lead	3.9			P	
7439-95-4	Magnesium	556 ~~173~~	~~B~~	U	P	MBL
7439-96-5	Manganese	3.1			P	
7439-97-6	Mercury	0.025	B		CV	
7440-02-0	Nickel	1.1			P	
7440-09-7	Potassium	556 ~~10.8~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.29	B		P	
7440-22-4	Silver	0.56	U		P	
7440-23-5	Sodium	556 ~~53.2~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	7.7	✓		P	
7440-66-6	Zinc	2.8			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Smith 8/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS89-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-18RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4250			P
7440-36-0	Antimony	1.1 0.97	B	U	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	7.7	B	J	P
7440-41-7	Beryllium	0.54	U		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	545 263	B	U	P
7440-47-3	Chromium	4.4			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	0.97			P
7439-89-6	Iron	1970			P
7439-92-1	Lead	3.8			P
7439-95-4	Magnesium	545 130	B	U	P
7439-96-5	Manganese	6.6			P
7439-97-6	Mercury	0.015	B	J	CV
7440-02-0	Nickel	1.5			P
7440-09-7	Potassium	545	U		P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	545 45.0	B	U	P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	5.9			P
7440-66-6	Zinc	3.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMM 8/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB89-6.5-7.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-19RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 89.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5720	✓		P
7440-36-0	Antimony	1.1			P
7440-38-2	Arsenic	5.6			P
7440-39-3	Barium	11.5 ~~B~~		J	P
7440-41-7	Beryllium	0.54 0.06 ~~B~~		U	P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	542 483 ~~B~~		U	P
7440-47-3	Chromium	8.6			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	1.1			P
7439-89-6	Iron	3030			P
7439-92-1	Lead	5.4			P
7439-95-4	Magnesium	542 262 ~~B~~		U	P
7439-96-5	Manganese	4.5			P
7439-97-6	Mercury	0.037	U		CV
7440-02-0	Nickel	0.98			P
7440-09-7	Potassium	542 299 ~~B~~		J	P
7782-49-2	Selenium	0.29 ~~B~~		J	P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	542 52.1 ~~B~~		U	P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	14.5			P
7440-66-6	Zinc	2.6			P

MBL

MBL

MBL

MBL

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

5/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS78-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-20RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9180			P	
7440-36-0	Antimony	1.1 ~~1.0~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	~~1.6~~			P	
7440-39-3	Barium	30.6			P	
7440-41-7	Beryllium	0.53 ~~0.04~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.53	U		P	
7440-70-2	Calcium	1460			P	
7440-47-3	Chromium	11.9			P	
7440-48-4	Cobalt	0.53	U		P	
7440-50-8	Copper	1.3			P	
7439-89-6	Iron	5450			P	
7439-92-1	Lead	15.4			P	
7439-95-4	Magnesium	527 ~~369~~	~~B~~	U	P	MBL
7439-96-5	Manganese	9.1			P	
7439-97-6	Mercury	0.023	B		CV	
7440-02-0	Nickel	2.1			P	
7440-09-7	Potassium	527 ~~248~~	~~B~~	J	P	MBL
7782-49-2	Selenium	~~0.43~~	~~B~~	J	P	
7440-22-4	Silver	0.53	U		P	
7440-23-5	Sodium	527 ~~83.3~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	15.8			P	
7440-66-6	Zinc	11.8			P	

SM 8/16/10

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS55-00-01
1005129-01 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	3.01	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB55-00-2.5-3
1005129-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**2.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.49	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

8/17/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS54-0-1

1005129-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**6.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**6.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.18	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SML 8/12/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	Reported:
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB54-4-5
1005129-04 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**14.6**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**13.6**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	**1.26**	J	2.43	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SMM 8/7/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	Reported:
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS53-0-1
1005129-05 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.80**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.80**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.68	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB53-7-8

1005129-06 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**7.10**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**6.06**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	**1.31**	J	2.53	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SM 6/17/2010

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS80-0-1

1005129-07 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	3.70		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	3.70		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.51	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

8/12/2020

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB80-3-4

1005129-08 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.70**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**2.70**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.31	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SMM 6/7/2010

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS56-0-1

1005129-09 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**6.10**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**6.10**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.45	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SMM 8/17/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	Reported:
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB56-3-4
1005129-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	12.7	0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS								
Trivalent Chromium	10.4	0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	2.76	2.45	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SMK 8/17/10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	Reported:
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS58-0-1

1005129-11 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**0.83**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**0.830**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

smm 8/17/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

14

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	Reported:
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS52-0-1
1005129-12 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.51	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SMK 6/7/2010

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	Reported:
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS57-0-1

1005129-13 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.50**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.50**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.54	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS60-00-01

1005129-14 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**1.50**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.50**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.20	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SMK 6/7/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	Reported:
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS59-00-01
1005129-15 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.70**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.70**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SMM 6/7/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB59-9-10

1005129-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	**14.1**	0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS								
Trivalent Chromium	**14.1**	0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND U	2.56	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

6/7/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS85-0-1
1005129-17 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**5.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**5.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.22	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SMK 6/17/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS89-0-1

1005129-18 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**4.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**4.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.18	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SMK 8/17/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB89-6.5-7.5

1005129-19 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**8.60**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**8.60**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.23	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SM 8/17/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS78-0-1
1005129-20 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**11.9**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**11.9**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.15	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS54-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-03RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7050			P
7440-36-0	Antimony	1.1 0.88	~~B~~	U	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	8.8	~~B~~	J	P
7440-41-7	Beryllium	0.06	~~B~~	J	P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	539 252	~~B~~	U	P
7440-47-3	Chromium	6.4			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	2040			P
7439-92-1	Lead	5.3			P
7439-95-4	Magnesium	539 172	~~B~~	U	P
7439-96-5	Manganese	5.8			P
7439-97-6	Mercury	0.035	~~B~~	J	CV
7440-02-0	Nickel	1.3			P
7440-09-7	Potassium	539 35.9	~~B~~	U	P
7782-49-2	Selenium	0.32	~~B~~	J	P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	539 57.7	~~B~~	U	P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	8.6			P
7440-66-6	Zinc	6.3			P

MB

MB

MB

MB

MB

SMM 9.14.2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 9/17/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS85-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-17RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6030	✓		P	
7440-36-0	Antimony	1.2			P	
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	6.8	~~B~~	J	P	
7440-41-7	Beryllium	0.56 ~~0.04~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.56	U		P	
7440-70-2	Calcium	556 ~~135~~	~~B~~	U	P	MBL
7440-47-3	Chromium	5.2			P	
7440-48-4	Cobalt	0.56	U		P	
7440-50-8	Copper	0.75			P	
7439-89-6	Iron	819			P	
7439-92-1	Lead	3.9			P	
7439-95-4	Magnesium	556 ~~173~~	~~B~~	U	P	MBL
7439-96-5	Manganese	3.1			P	
7439-97-6	Mercury	0.025	~~B~~	J	CV	
7440-02-0	Nickel	1.1			P	
7440-09-7	Potassium	556 ~~10.8~~	~~B~~	U	P	MBL
7782-49-2	Selenium	~~0.29~~	~~B~~	J	P	
7440-22-4	Silver	0.56	U		P	
7440-23-5	Sodium	556 ~~53.2~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	7.7	✓		P	
7440-66-6	Zinc	2.8			P	

SM 9.14.2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SM 9/16/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS78-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-20RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9180			P
7440-36-0	Antimony	1.1 ~~1.0~~	~~B~~	~~U~~	P
7440-38-2	Arsenic	~~1.6~~			P
7440-39-3	Barium	30.6			P
7440-41-7	Beryllium	0.53 ~~0.04~~	~~B~~	~~U~~	P
7440-43-9	Cadmium	0.53	U		P
7440-70-2	Calcium	1460			P
7440-47-3	Chromium	11.9			P
7440-48-4	Cobalt	0.53	U		P
7440-50-8	Copper	1.3			P
7439-89-6	Iron	5450			P
7439-92-1	Lead	15.4			P
7439-95-4	Magnesium	527 ~~369~~	~~B~~	~~U~~	P
7439-96-5	Manganese	9.1			P
7439-97-6	Mercury	0.023	~~B~~	J	CV
7440-02-0	Nickel	2.1			P
7440-09-7	Potassium	527 ~~248~~	~~B~~	~~J~~	P
7782-49-2	Selenium	0.43	~~B~~	J	P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	527 ~~83.3~~	~~B~~	~~U~~	P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	11.8			P

MBL

MBL

MBL

MBL

SM 6.14.2010

SM 6/16/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB59-9-10

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-16RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7570			P	
7440-36-0	Antimony	1.3 ~~0.92~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	3.6			P	
7440-39-3	Barium	8.5	~~B~~	J	P	
7440-41-7	Beryllium	0.64 ~~0.10~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	~~0.64~~	U		P	
7440-70-2	Calcium	641 ~~141~~	~~B~~	U	P	MBL
7440-47-3	Chromium	14.1			P	
7440-48-4	Cobalt	0.64	U		P	
7440-50-8	Copper	1.9			P	
7439-89-6	Iron	8280			P	
7439-92-1	Lead	6.9			P	
7439-95-4	Magnesium	641 ~~457~~	~~B~~	U	P	MBL
7439-96-5	Manganese	8.5			P	
7439-97-6	Mercury	0.042	U		CV	
7440-02-0	Nickel	1.3			P	
7440-09-7	Potassium	641 ~~575~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.70			P	
7440-22-4	Silver	0.64	U		P	
7440-23-5	Sodium	641 ~~73.8~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.3	U		P	
7440-62-2	Vanadium	24.9			P	
7440-66-6	Zinc	5.5			P	

SMM 9.14.2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 9/16/2010

Comments:

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005130
Fraction: Inorganic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. One matrix spike/matrix spike duplicate sample was submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for metals and hexavalent chromium. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 2004 and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

These documents specify procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/29/2010
Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody (COC) documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following positive results are considered to be nondetect due to the presence of these analytes in the associated continuing calibration blanks and/or preparation blanks presented in Table 2. The analytes were detected in the associated continuing calibration blanks and/or preparation blanks at levels less than the reporting limit (RL), indicating the possibility of a false positive at this level. The affected results for these samples are less than the RL. Replacing the sample result with the RL and marking it "U" has indicated this.

Analyte	Affected Samples
Chromium	BBG-SS24-0-1-10B, BBG-SS50-0-1-10B, BBG-SS48-0-1-10B

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

All criteria were met. No qualifiers were applied.

10.0 FIELD DUPLICATE RESULTS

There were no field duplicate samples submitted with this SDG.

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Metals (Except Mercury)	Method 6010B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Mercury	Method 7471A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Hexavalent Chromium	Method 7196A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS23-00-01-10B	1005130	1005130-01	5/10/2010	Soil			X			
BBG-SS23-0-1-10B	1005130	1005130-01	5/10/2010	Soil	X	X				X
BBG-SB23-1.5-2-10B	1005130	1005130-02	5/10/2010	Soil	X	X	X			X
BBG-SS24-0-1-10B	1005130	1005130-03	5/11/2010	Soil	X	X	X			X
BBG-SB24-3-4-10B	1005130	1005130-04	5/11/2010	Soil	X	X	X			X
BBG-SS49-0-1-10B	1005130	1005130-05	5/11/2010	Soil	X	X	X			X
BBG-SB49-11-12-10B	1005130	1005130-06	5/11/2010	Soil	X	X	X			X
BBG-SS50-0-1-10B	1005130	1005130-07	5/11/2010	Soil	X	X	X			X
BBG-SB47-14-15-10B	1005130	1005130-08	5/12/2010	Soil	X	X	X			X
BBG-SS47-0-1-10B	1005130	1005130-09	5/12/2010	Soil	X	X	X			X
BBG-SS11-0-1-10B	1005130	1005130-10	5/12/2010	Soil	X	X	X			X
BBG-SB11-11-12-10B	1005130	1005130-11	5/12/2010	Soil	X	X	X			X
BBG-SB48-7-8-10B	1005130	1005130-12	5/12/2010	Soil	X	X	X			X
BBG-SS48-0-1-10B	1005130	1005130-13	5/12/2010	Soil	X	X	X			X
BBG-SS18-0-1-10B	1005130	1005130-14	5/12/2010	Soil	X	X	X			X
BBG-SB18-12-13-10B	1005130	1005130-15	5/12/2010	Soil	X	X	X			X
BBG-SS25-0-1-10B	1005130	1005130-16	5/13/2010	Soil	X	X	X			X
BBG-SB25-3-4-10B	1005130	1005130-17	5/12/2010	Soil	X	X	X			X
BBG-SS08-0-1-10B	1005130	1005130-18	5/13/2010	Soil	X	X	X			X
BBG-SB08-6-7-10B	1005130	1005130-19	5/13/2010	Soil	X	X	X			X
BBG-SS05-0-1-10B	1005130	1005130-20	5/14/2010	Soil	X	X	X			X

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
PB	Chromium	0.263 B mg/Kg	All Samples
CCB5	Chromium	-0.8 B µg/L	SS50-0-1, SS23-00-01, SB23-1.5-2, SS24-0-1, SB24-3-4, SS49-0-1, SB49-11-12, SB47-14-15, SS47-0-1, SS11-0-1, SB11-11-12, SB48-7-8, SS48-0-1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS23-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-01

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 89.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	3.2			P

SMM 6/19/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB23-1.5-2

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-02

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 81.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.4			P

5/19/2010

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS24-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-03

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.1 ~~0.56~~	~~B~~	~~U~~	P

MB

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB24-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-04

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 82.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	5.7			P

SMM 6/8/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS49-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-05

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	5.5			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB49-11-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-06

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 76.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	22.1			P

5/19/2010

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS50-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-07

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 65.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.5 ~~1.1~~	P	J U	P

MB

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMM 6/19/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB47-14-15

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-08

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 68.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	21.8			P

SM 8/9/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS47-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-09

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 80.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2.4			P

SM 8/9/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS11-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-10

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.7			P

SM 6/9/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB11-11-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-11

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	15.4			P

SMK 6/9/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB48-7-8

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-12

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 78.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2.2			P

SM 6/9/2010

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS48-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-13

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 86.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.1 ~~0.40 B~~	V	U	P

MBL

SMT 8/19/2010

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS18-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-14

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 92.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2.4	✓		P

SMM 8/19/2010

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB18-12-13

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-15

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 84.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	9.6			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS25-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-16

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.6			P

SMM 8/19/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB25-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-17

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	3.1			P

SMM 8/19/2010

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS08-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-18

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 89.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	10.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB08-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-19

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 83.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	13.9			P

SML 8/19/20

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS05-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-20

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 79.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.9			P

5/19/2010

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS23-00-01
1005130-01 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.23	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**3.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB23-1.5-2
1005130-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.47	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

SM 6/21/10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS24-0-1

1005130-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**0.56**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.25	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**0.560**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB24-3-4

1005130-04 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**5.70**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.42	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**5.70**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS49-0-1

1005130-05 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**5.50**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.18	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**5.50**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

8/9/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB49-11-12
1005130-06 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**22.1**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.70**	J	2.63	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**20.8**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

6/29/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS50-0-1
1005130-07 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.10**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	3.03	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.10**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

SMM 8/27/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB47-14-15
1005130-08 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**21.8**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.91	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**21.8**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

8/27/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS47-0-1

1005130-09 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.50	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**2.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

8/27/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS11-0-1
1005130-10 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.70**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.08	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.70**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

8/27/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB11-11-12
1005130-11 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**15.4**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.31**	J	2.51	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**14.4**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

8/27/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB48-7-8

1005130-12 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**2.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.54	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**2.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

6/7/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS48-0-1

1005130-13 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	ND		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.32	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	ND		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

SMK 8/21/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS18-0-1

1005130-14 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**2.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.16	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**2.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

SMK 8/27/2010

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB18-12-13
1005130-15 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**9.60**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.37	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**9.60**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

8/27/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS25-0-1

1005130-16 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**1.60**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.60**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB25-3-4

1005130-17 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	3.10		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.13	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	3.10		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

8/27/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS08-0-1
1005130-18 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**10.0**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.22	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**10.0**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB08-6-7

1005130-19 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**13.9**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.63**	J	2.40	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**12.5**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

SMK 8/27/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS05-0-1

1005130-20 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.90**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.53	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.90**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005131
Fraction: Inorganic
Matrix: Aqueous
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for equipment and field blanks. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for metals and hexavalent chromium. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 2004 and " Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

These documents specify procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
	•	Matrix Spike Recoveries and Reproducibility
	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/29/2010
Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody (COC) documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

This parameter was not evaluated

7.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

This parameter is not applicable to the analyses completed.

8.0 *LABORATORY DUPLICATE RESULTS*

This parameter is not applicable to the analyses completed.

9.0 *ICP SERIAL DILUTION RESULTS*

This parameter is not applicable to the analyses completed.

10.0 FIELD DUPLICATE RESULTS

This parameter is not applicable to the analyses completed.

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Analysis	Reference
Metals (Except Mercury)	Method 6010B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Mercury	Method 7470A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Hexavalent Chromium	Method 7196A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-EB051210-SS	1005131	1005131-01	5/12/2010	Equipment Blank	X	X	X	X		X
BBG-EB051310-SB	1005131	1005131-02	5/13/2010	Equipment Blank	X	X	X	X		X
BBG-FB051310	1005131	1005131-03	5/13/2010	Field Blank	X	X	X	X		X
BBG-FB051810	1005131	1005131-04	5/18/2010	Field Blank	X	X	X	X		X
BBG-EB051810-SS	1005131	1005131-05	5/18/2010	Equipment Blank	X	X	X	X		X

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-FB051310

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-03

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	10.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	374	~~B~~ J	J	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

SMM 6/25/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-FB051810

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-04

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	10.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	372	B	J	P
7440-47-3	Chromium	1.0	B	J	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EB051210-SS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-01

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	3.5	~~B~~	J	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	428	~~B~~	J	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	14.0	~~B~~	J	P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.37	~~B~~	J	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.7			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

SMM 8/31/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB051310-SB

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-02

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	2.5	~~B~~	J	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	407	~~B~~	J	P
7440-47-3	Chromium	0.91	~~B~~	J	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.24	~~B~~	J	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB051810-SS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-05

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	10.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	371	B	J	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	2.8	B	J	P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

EB051210-SS

1005131-01 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**3.60**	J	10.0	ug/L	1	0052541	05/13/2010 10:36	05/13/2010 10:49	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

EB051310-SB

1005131-02 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0052541	05/14/2010 10:00	05/14/2010 10:05	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

SMK 6/25/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

BBG-FB051310

1005131-03 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0052541	05/14/2010 10:00	05/14/2010 10:04	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

BBG-FB051810

1005131-04 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0052541	05/19/2010 10:00	05/19/2010 10:19	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

EB051810-SS

1005131-05 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.15**	J	10.0	ug/L	1	0052541	05/19/2010 10:00	05/19/2010 10:20	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

SM 8/25/2010

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005132
Fraction: Inorganic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. Two field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for metals and hexavelent chromium. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 2004 and " Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

These documents specify procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/30/2010

Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody (COC) documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following positive results are considered to be nondetect due to the presence of these analytes in the associated continuing calibration blanks and/or preparation blanks presented in Table 2. The analytes were detected in the associated continuing calibration blanks and/or preparation blanks at levels less than the reporting limit (RL), indicating the possibility of a false positive at this level. The affected results for these samples are less than the RL. Replacing the sample result with the RL and marking it "U" has indicated this.

Analyte	Affected Samples
Antimony	BBG-SB85-1.5-2.5-10B, BBG-SB78-3.5-4.5-10B
Beryllium	BBG-SB78-3.5-4.5-10B, BBG-SS77-0-1-10B, BBG-SB77-3.5-4.5-10B, BBG-SS79-0-1-10B, BBG-SB79-11-12-10B, BBG-SS83-0-1-10B, BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS74-0-1-10B, BBG-SS86-0-1-10B, BBG-SB86-3-4-10B, BBG-SS84-0-1-10B, BBG-SB84-6-7-10B, BBG-SS81-0-1-10B, BBG-SB81-5-6-10B, BBG-SS71-0-1-10B, BBG-SS71D-0-1-10B, BBG-SB71-4-5-10B, BBG-SB71D-4-5-10B
Calcium	BBG-SB85-1.5-2.5-10B, BBG-SB78-3.5-4.5-10B, BBG-SS77-0-1-10B, BBG-SB77-3.5-4.5-10B, BBG-SS79-0-1-10B, BBG-SB79-11-12-10B, BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS74-0-1-10B, BBG-SS81-0-1-10B, BBG-SB81-5-6-10B, BBG-SB71-4-5-10B, BBG-SB71D-4-5-10B
Cobalt	BBG-SB85-1.5-2.5-10B, BBG-SB77-3.5-4.5-10B, BBG-SB83-6.5-7.5-10B, BBG-SS74-0-1-10B
Magnesium	BBG-SB85-1.5-2.5-10B, BBG-SS77-0-1-10B, BBG-SB77-3.5-4.5-10B, BBG-SS79-0-1-10B, BBG-SB79-11-12-10B, BBG-SS83-0-1-10B, BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS74-0-1-10B, BBG-SS86-0-1-10B, BBG-SB86-3-4-10B, BBG-SS84-0-1-10B, BBG-SB84-6-7-10B, BBG-SS81-0-1-10B, BBG-SB81-5-6-10B, BBG-SS71-0-1-10B, BBG-SS71D-0-1-10B, BBG-SB71-4-5-10B, BBG-SB71D-4-5-10B
Nickel	BBG-SS81-0-1-10B
Potassium	BBG-SB85-1.5-2.5-10B, BBG-SB77-3.5-4.5-10B, BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS86-0-1-10B, BBG-SB86-3-4-10B, BBG-SB84-6-7-10B, BBG-SS71-0-1-10B, BBG-SS71D-0-1-10B, BBG-SB71-4-5-10B
Selenium	BBG-SB78-3.5-4.5-10B, BBG-SS77-0-1-10B, BBG-SS83-0-1-10B, BBG-SB83-6.5-7.5-10B, BBG-SS74-0-1-10B, BBG-SB86-3-4-10B, BBG-SS84-0-1-10B, BBG-SB81-5-6-10B, BBG-SB71D-4-5-10B
Silver	BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS81-0-1-10B
Thallium	BBG-SB78-3.5-4.5-10B

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

Positive results and RLs reported for antimony for the soil samples should be considered biased low quantitative estimates, and may be higher than reported. The associated matrix spike recoveries were below the acceptance limits for this analyte. The low recovery indicates the presence of interferences for samples of similar matrix. Positive results have been

marked with "J" qualifiers to indicate that they are biased low quantitative estimates. RLs are marked "UJ".

The positive results reported for mercury for all samples should be considered biased high quantitative estimates and may be lower than reported. The associated matrix spike recovery was above the acceptance limit for this analyte. The high recovery indicates the presence of interferences for mercury for samples of similar matrix. The positive results for the analyte have been marked with "J+" qualifiers to indicate that they are biased high quantitative estimates.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

All criteria were met. No qualifiers were applied.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples BBG-SS71-0-1-10B and BBG-SS71D-0-1-10B, and BBG-SB71-4-5-10B and BBG-SB71D-4-5-10B were submitted to the laboratory evaluate sampling and analytical precision for those analytes determined to be present. Results for these duplicate samples are presented in Tables 2 and 3. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal an acceptance criterion of 40 percent for values greater than five times the (RL) (or $\pm$ twice the RL for results less than five times the RL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Metals (Except Mercury)	Method 6010B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Mercury	Method 7471A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Hexavalent Chromium	Method 7196A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SB85-1.5-2.5-10B	1005132	1005132-01	5/13/2010	Soil	X	X	X		X	X
BBG-SB78-3.5-4.5-10B	1005132	1005132-02	5/13/2010	Soil	X	X	X		X	X
BBG-SS77-0-1-10B	1005132	1005132-03	5/13/2010	Soil	X	X	X		X	X
BBG-SB77-3.5-4.5-10B	1005132	1005132-04	5/13/2010	Soil	X	X	X		X	X
BBG-SS79-0-1-10B	1005132	1005132-05	5/13/2010	Soil	X	X	X		X	X
BBG-SB79-11-12-10B	1005132	1005132-06	5/13/2010	Soil	X	X	X		X	X
BBG-SS83-0-1-10B	1005132	1005132-07	5/13/2010	Soil	X	X	X		X	X
BBG-SB83-6.5-7.5-10B	1005132	1005132-08	5/13/2010	Soil	X	X	X		X	X
BBG-SS62-0-1-10B	1005132	1005132-09	5/13/2010	Soil	X	X	X		X	X
BBG-SS74-0-1-10B	1005132	1005132-10	5/14/2010	Soil	X	X	X		X	X
BBG-SS86-0-1-10B	1005132	1005132-11	5/14/2010	Soil	X	X	X		X	X
BBG-SB86-3-4-10B	1005132	1005132-12	5/14/2010	Soil	X	X	X		X	X
BBG-SS84-0-1-10B	1005132	1005132-13	5/14/2010	Soil	X	X	X		X	X
BBG-SB84-6-7-10B	1005132	1005132-14	5/14/2010	Soil	X	X	X		X	X
BBG-SS81-0-1-10B	1005132	1005132-15	5/18/2010	Soil	X	X	X		X	X
BBG-SB81-5-6-10B	1005132	1005132-16	5/18/2010	Soil	X	X	X		X	X
BBG-SS71-0-1-10B	1005132	1005132-17	5/19/2010	Soil	X	X	X		X	X
BBG-SS71D-0-1-10B	1005132	1005132-18	5/19/2010	Soil	X	X	X		X	X
BBG-SB71-4-5-10B	1005132	1005132-19	5/19/2010	Soil	X	X	X		X	X
BBG-SB71D-4-5-10B	1005132	1005132-20	5/19/2010	Soil	X	X	X		X	X

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
PB	Aluminum	2.255 J mg/Kg	All Samples
	Beryllium	0.067 J mg/Kg	
	Calcium	36.866 J mg/Kg	
	Potassium	-143.488 J mg/Kg	
	Silver	0.041 J mg/Kg	
CCB3	Antimony	3.5 J µg/L	SB85-1.5-2.5, SB78-3.5-4.5
	Calcium	382.2 J µg/L	
	Magnesium	14.3 J µg/L	
	Manganese	0.3 J µg/L	
	Nickel	1.1 J µg/L	
	Potassium	-1431.3 J µg/L	
	Thallium	5.1 J µg/L	
CCB4	Antimony	3.9 J µg/L	SB85-1.5-2.5, SB78-3.5-4.5, SS77-0-1, SB77-3.5-4.5, SS79-0-1,
	Calcium	377.5 J µg/L	SB79-11-12, SS83-0-1, SB83-6.5-7.5, SS62-0-1, SS74-0-1,
	Chromium	1 J µg/L	SS86-0-1, SB86-3-4
	Cobalt	1.6 J µg/L	
	Lead	2.2 J µg/L	
	Magnesium	14 J µg/L	
	Manganese	0.3 J µg/L	
	Potassium	-1423.6 J µg/L	
	Selenium	2.8 J µg/L	
	Thallium	3.2 J µg/L	
CCB5	Aluminum	35.3 J µg/L	SS77-0-1, SB77-3.5-4.5, SS79-0-1, SB79-11-12, SS83-0-1,
	Antimony	3.3 J µg/L	SB83-6.5-7.5, SS62-0-1, SS74-0-1, SS86-0-1, SB86-3-4,
	Beryllium	0.8 J µg/L	SS84-0-1, SB84-6-7, SS81-0-1, SB81-5-6, SS71-0-1, SS71D-0-1,
	Calcium	380.7 J µg/L	SB71-4-5, SB71D-4-5

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
	Magnesium	15.3 J µg/L	
	Manganese	0.4 J µg/L	
	Nickel	1.2 J µg/L	
	Potassium	-1425.7 J µg/L	
	Selenium	2.5 J µg/L	
	Thallium	3.7 J µg/L	
CCB6	Aluminum	54.1 J µg/L	SS84-0-1, SB84-6-7, SS81-0-1, SB81-5-6, SS71-0-1, SS71D-0-1,
	Antimony	2.5 J µg/L	SB71-4-5, SB71D-4-5
	Beryllium	1.2 J µg/L	
	Calcium	382.5 J µg/L	
	Chromium	1 J µg/L	
	Magnesium	17.4 J µg/L	
	Manganese	0.5 J µg/L	
	Nickel	0.8 J µg/L	
	Potassium	-1423.2 J µg/L	
	Thallium	5.2 J µg/L	
CCB8	Mercury	-0.097 J µg/L	SS71D-0-1, SB71-4-5, SB71D-4-5

Table 3 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SS71-0-1 and SS71D-0-1

Analyte	Sample Result (mg/Kg)		Field Duplicate Result (mg/Kg)		RPD	ACTION
	SS71-0-1		SS71D-0-1			
Aluminum	12300		12100		2	
Antimony	1.3	J-	1.3	J-	0	
Arsenic	0.67	J	0.78	J	15	
Barium	14.4	J	14.1	J	2	
Cadmium	0.26	J	0.27	J	4	
Calcium	577		811		34	
Chromium	11.7		11.4		3	
Cobalt	0.45	J	0.39	J	14	
Copper	1.6		1.2		29	
Iron	4040		4050		0	
Lead	8.8		8.4		5	
Manganese	9.9		9.3		6	
Mercury	0.11	J+	0.11	J+	0	
Nickel	1.9		2.1		10	
Selenium	0.28	J	0.45	J	47	
Sodium	67.2	J	78	J	15	
Vanadium	14.4		14.7		2	
Zinc	5.6		4.9		13	
Hexavalent Chromium	3.25		1.07	J	101	

Table 4 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SB71-4-5 and SB71D-4-5

Analyte	Sample Result (mg/Kg)		Field Duplicate Result (mg/Kg)		RPD	ACTION
	SB71-4-5		SB71D-4-5			
Aluminum	17000		22900		30	
Antimony	1.6	J-	1.6	J-	0	
Arsenic	1.6		1.1	J	37	
Barium	37.1		57		42	
Cadmium	0.26	J	0.39	J	40	
Chromium	13		17.4		29	
Cobalt	0.8		1.4		55	
Copper	3.5		4.2		18	
Iron	2500		3060		20	
Lead	9.2		14.1		42	
Manganese	9.7		12.6		26	
Mercury	0.041	J+	0.082	J+	67	
Nickel	8.9		14.1		45	
Potassium	ND	J	738		NC	
Sodium	74.9	J	81	J	8	
Vanadium	13.7		15.4		12	
Zinc	8		11.8		38	
Hexavalent Chromium	1.22	J	ND		NC	

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB85-1.5-2.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-01

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6090			P	
7440-36-0	Antimony	1.5		M J+	P	MSL
7440-38-2	Arsenic	1.2	U		P	
7440-39-3	Barium	6.0	~~B~~	J	P	
7440-41-7	Beryllium	0.60 ~~0.12~~	~~B~~	U	P	MB
7440-43-9	Cadmium	0.10	~~B~~	J	P	
7440-70-2	Calcium	603 ~~72.9~~	~~B~~	U	P	MBL
7440-47-3	Chromium	6.1			P	
7440-48-4	Cobalt	0.60 ~~0.38~~	~~B~~	U	P	MBL
7440-50-8	Copper	0.92			P	
7439-89-6	Iron	880			P	
7439-92-1	Lead	3.2			P	
7439-95-4	Magnesium	603 ~~142~~	~~B~~ E	U	P	MBL
7439-96-5	Manganese	7.6			P	
7439-97-6	Mercury	0.049		M J+	CV	MSH
7440-02-0	Nickel	0.93			P	
7440-09-7	Potassium	603 ~~157~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.38	~~B~~	J	P	
7440-22-4	Silver	0.60	U		P	
7440-23-5	Sodium	53.3	~~B~~	J	P	
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	6.7			P	
7440-66-6	Zinc	2.0	~~B~~	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: SMR 8/21/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB78-3.5-4.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-02

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15300			P	
7440-36-0	Antimony	1.2 ~~0.88~~	~~B~~ N	U	P	MBL
7440-38-2	Arsenic	1.8			P	
7440-39-3	Barium	16.7	~~B~~	J	P	
7440-41-7	Beryllium	0.58 ~~0.28~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.47	~~B~~	J	P	
7440-70-2	Calcium	583 ~~145~~	~~B~~	U	P	MBL
7440-47-3	Chromium	21.6			P	
7440-48-4	Cobalt	0.58	U		P	
7440-50-8	Copper	1.3			P	
7439-89-6	Iron	9760			P	
7439-92-1	Lead	6.7			P	
7439-95-4	Magnesium	599		~~E~~	P	
7439-96-5	Manganese	10.5			P	
7439-97-6	Mercury	0.055		~~N~~ J	CV	MSH
7440-02-0	Nickel	2.1			P	
7440-09-7	Potassium	798			P	
7782-49-2	Selenium	0.58 ~~0.46~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.58	U		P	
7440-23-5	Sodium	61.1	~~B~~	J	P	
7440-28-0	Thallium	1.2 ~~0.43~~	~~B~~	U	P	MBL
7440-62-2	Vanadium	27.3			P	
7440-66-6	Zinc	6.0			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: SM 8/21/2010

SW846 - METALS
-I-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS77-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-03

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 76.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4290			P
7440-36-0	Antimony	1.9		X J-	P
7440-38-2	Arsenic	1.3			P
7440-39-3	Barium	11.0	B	J	P
7440-41-7	Beryllium	0.65 ~~0.16~~	~~B~~	U	P
7440-43-9	Cadmium	0.18	B	J	P
7440-70-2	Calcium	650 ~~650~~	~~B~~	U	P
7440-47-3	Chromium	4.7			P
7440-48-4	Cobalt	0.65	U		P
7440-50-8	Copper	2.0			P
7439-89-6	Iron	1940			P
7439-92-1	Lead	6.1			P
7439-95-4	Magnesium	650 ~~153~~	~~B~~	E U	P
7439-96-5	Manganese	16.2			P
7439-97-6	Mercury	0.071		X J+	CV
7440-02-0	Nickel	1.5			P
7440-09-7	Potassium	650	U		P
7782-49-2	Selenium	0.65 ~~0.41~~	~~B~~	U	P
7440-22-4	Silver	0.65	U		P
7440-23-5	Sodium	54.5	B	J	P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	6.3			P
7440-66-6	Zinc	6.8			P

SM 6/21/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB77-3.5-4.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-04

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4540			P	
7440-36-0	Antimony	1.2		N J	P	MSL
7440-38-2	Arsenic	0.59	~~B~~	J	P	
7440-39-3	Barium	9.5	~~B~~	U	P	
7440-41-7	Beryllium	0.55 ~~0.16~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.16	~~B~~	J	P	
7440-70-2	Calcium	550 ~~484~~	~~B~~	U	P	MBL
7440-47-3	Chromium	5.7			P	
7440-48-4	Cobalt	0.55 ~~0.31~~	B	U	P	MBL
7440-50-8	Copper	1.4			P	
7439-89-6	Iron	2180			P	
7439-92-1	Lead	4.8			P	
7439-95-4	Magnesium	550 ~~168~~	~~B~~	E U	P	MBL
7439-96-5	Manganese	9.1			P	
7439-97-6	Mercury	0.093		N J	CV	MSH
7440-02-0	Nickel	1.4			P	
7440-09-7	Potassium	550 ~~19.5~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.55	U		P	
7440-22-4	Silver	0.55	U		P	
7440-23-5	Sodium	56.8	~~B~~	J	P	
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	7.5			P	
7440-66-6	Zinc	2.6			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SM 6/1/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS79-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-05

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 96.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1600			P	
7440-36-0	Antimony	1.2		~~J~~	P	MSL
7440-38-2	Arsenic	1.0	U		P	
7440-39-3	Barium	5.3	~~B~~	J	P	
7440-41-7	Beryllium	0.5 / ~~0.11~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.07	~~B~~	J	P	
7440-70-2	Calcium	505 ~~170~~	~~B~~	U	P	MBL
7440-47-3	Chromium	2.2			P	
7440-48-4	Cobalt	0.51	U		P	
7440-50-8	Copper	1.4			P	
7439-89-6	Iron	500			P	
7439-92-1	Lead	3.4			P	
7439-95-4	Magnesium	505 ~~46.6~~	~~B~~ E	U	P	MBL
7439-96-5	Manganese	8.3			P	
7439-97-6	Mercury	0.058		~~J~~ H	CV	MSH
7440-02-0	Nickel	0.68			P	
7440-09-7	Potassium	505	U		P	
7782-49-2	Selenium	0.51	U		P	
7440-22-4	Silver	0.51	U		P	
7440-23-5	Sodium	47.9	~~B~~	J	P	
7440-28-0	Thallium	1.0	U		P	
7440-62-2	Vanadium	2.5			P	
7440-66-6	Zinc	3.3			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMG 8/2/2010

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB79-11-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-06

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 82.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8390			P	
7440-36-0	Antimony	1.4		J-	P	MSL
7440-38-2	Arsenic	2.1			P	
7440-39-3	Barium	11.8	B	J	P	
7440-41-7	Beryllium	0.59 0.20	B	U	P	MBL
7440-43-9	Cadmium	0.19	B	J	P	
7440-70-2	Calcium	586 139	B	U	P	MBL
7440-47-3	Chromium	11.2			P	
7440-48-4	Cobalt	0.35	B	J	P	
7440-50-8	Copper	1.4			P	
7439-89-6	Iron	2720			P	
7439-92-1	Lead	4.2			P	
7439-95-4	Magnesium	586 302	B	E U	P	MBL
7439-96-5	Manganese	7.5			P	
7439-97-6	Mercury	0.10		J+	CV	MSH
7440-02-0	Nickel	1.5			P	
7440-09-7	Potassium	591			P	
7782-49-2	Selenium	0.59	U		P	
7440-22-4	Silver	0.59	U		P	
7440-23-5	Sodium	59.8	B	J	P	
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	20.6			P	
7440-66-6	Zinc	4.9			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: EMK 8/21/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS83-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-07

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3060			P
7440-36-0	Antimony	1.5		~~N~~ J-	P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	6.9	~~B~~	J	P
7440-41-7	Beryllium	0.52 ~~0.11~~	~~B~~	U	P
7440-43-9	Cadmium	0.07	~~B~~	J	P
7440-70-2	Calcium	1040			P
7440-47-3	Chromium	3.4			P
7440-48-4	Cobalt	0.52	U		P
7440-50-8	Copper	0.83			P
7439-89-6	Iron	922			P
7439-92-1	Lead	4.6			P
7439-95-4	Magnesium	517 ~~84.3~~	B	E U	P
7439-96-5	Manganese	5.8			P
7439-97-6	Mercury	0.11		~~N~~ J+	CV
7440-02-0	Nickel	0.93			P
7440-09-7	Potassium	517	U		P
7782-49-2	Selenium	0.52 ~~0.48~~	~~B~~	U	P
7440-22-4	Silver	0.52	U		P
7440-23-5	Sodium	50.4	~~B~~	J	P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	4.2			P
7440-66-6	Zinc	3.6			P

SMR 5/21/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB83-6.5-7.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-08

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8680			P	
7440-36-0	Antimony	1.4		NJ-	P	MSL
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	8.0	~~B~~	J	P	
7440-41-7	Beryllium	0.56 ~~0.16~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.18	~~B~~	J	P	
7440-70-2	Calcium	560 ~~125~~	~~B~~	U	P	MBL
7440-47-3	Chromium	8.3			P	
7440-48-4	Cobalt	0.56 ~~0.47~~	~~B~~	U	P	MBL
7440-50-8	Copper	0.59			P	
7439-89-6	Iron	1480			P	
7439-92-1	Lead	3.4			P	
7439-95-4	Magnesium	560 ~~219~~	~~B~~	E U	P	MBL
7439-96-5	Manganese	5.5			P	
7439-97-6	Mercury	0.089		~~N~~ J+	CV	MSH
7440-02-0	Nickel	1.7			P	
7440-09-7	Potassium	560 ~~248~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.56 ~~0.41~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.56 ~~0.05~~	~~B~~	U	P	MBL
7440-23-5	Sodium	56.5	~~B~~	J	P	
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	7.8			P	
7440-66-6	Zinc	2.5			P	

SMM 8/11/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS62-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-09

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 30.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9480			P	
7440-36-0	Antimony	3.7		~~J~~ J-	P	MSL
7440-38-2	Arsenic	2.4	~~B~~	J	P	
7440-39-3	Barium	30.3	~~B~~	J	P	
7440-41-7	Beryllium	1.6 ~~0.49~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.22	~~B~~	J	P	
7440-70-2	Calcium	1620 ~~477~~	~~B~~	U	P	MBL
7440-47-3	Chromium	8.3			P	
7440-48-4	Cobalt	1.6	U		P	
7440-50-8	Copper	15.5			P	
7439-89-6	Iron	533			P	
7439-92-1	Lead	22.3			P	
7439-95-4	Magnesium	1620 ~~220~~	~~B~~	~~E~~ U	P	MBL
7439-96-5	Manganese	6.1			P	
7439-97-6	Mercury	0.46		~~J~~ JH	CV	MSH
7440-02-0	Nickel	2.0			P	
7440-09-7	Potassium	1620 ~~116~~	~~B~~	U	P	MBL
7782-49-2	Selenium	4.1			P	
7440-22-4	Silver	1.6 ~~0.24~~	~~B~~	U	P	MBL
7440-23-5	Sodium	231	~~B~~	J	P	
7440-28-0	Thallium	3.2	U		P	
7440-62-2	Vanadium	11.2			P	
7440-66-6	Zinc	5.8	~~B~~	J	P	

SML 6/11/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS74-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-10

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 97.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2690			P	
7440-36-0	Antimony	1.4		~~N~~ J-	P	MBL
7440-38-2	Arsenic	1.0	U		P	
7440-39-3	Barium	8.4	~~B~~	J	P	
7440-41-7	Beryllium	0.51 ~~0.08~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.09	~~B~~	J	P	
7440-70-2	Calcium	573 ~~117~~	~~B~~	U	P	MBL
7440-47-3	Chromium	~~5~~ 5 ~~SMK~~ 2.9			P	
7440-48-4	Cobalt	0.51 ~~0.27~~	~~B~~	U	P	MBL
7440-50-8	Copper	1.7			P	
7439-89-6	Iron	1010			P	
7439-92-1	Lead	3.6			P	
7439-95-4	Magnesium	673 ~~85.2~~	~~B~~ ~~E~~	U	P	MBL
7439-96-5	Manganese	8.0			P	
7439-97-6	Mercury	0.11		~~N~~ J+	CV	MSH
7440-02-0	Nickel	0.90			P	
7440-09-7	Potassium	513	U		P	
7782-49-2	Selenium	0.51 ~~0.26~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.51	U		P	
7440-23-5	Sodium	56.7	~~B~~	J	P	
7440-28-0	Thallium	1.0	U		P	
7440-62-2	Vanadium	3.4			P	
7440-66-6	Zinc	1.9	~~B~~	J	P	

SMM 8/21/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS86-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-11

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11300			P	MSL
7440-36-0	Antimony	1.4		N J	P	
7440-38-2	Arsenic	1.4			P	
7440-39-3	Barium	12.5	~~B~~	J	P	
7440-41-7	Beryllium	0.56 ~~0.11~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.45	~~B~~	J	P	
7440-70-2	Calcium	5630			P	
7440-47-3	Chromium	12.6			P	
7440-48-4	Cobalt	0.56	U		P	
7440-50-8	Copper	0.77			P	
7439-89-6	Iron	8640			P	
7439-92-1	Lead	8.3			P	
7439-95-4	Magnesium	562 ~~445~~	~~B~~	E U	P	MBL
7439-96-5	Manganese	9.4			P	
7439-97-6	Mercury	0.028	~~B~~	N J	CV	MRL
7440-02-0	Nickel	1.7			P	
7440-09-7	Potassium	562 ~~185~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.99			P	
7440-22-4	Silver	0.56	U		P	
7440-23-5	Sodium	55.9	~~B~~	J	P	
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	22.5			P	
7440-66-6	Zinc	7.9			P	

SMK 8/21/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB86-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-12

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9230			P	
7440-36-0	Antimony	0.79	~~B~~	~~N~~ J	P	MBL
7440-38-2	Arsenic	4.1			P	
7440-39-3	Barium	9.6	~~B~~	J	P	
7440-41-7	Beryllium	0.58 ~~0.21~~	~~B~~	J	P	MBL
7440-43-9	Cadmium	0.61			P	
7440-70-2	Calcium	684			P	
7440-47-3	Chromium	12.9			P	
7440-48-4	Cobalt	0.58	U		P	
7440-50-8	Copper	5.0			P	
7439-89-6	Iron	15700			P	
7439-92-1	Lead	5.6			P	
7439-95-4	Magnesium	579 ~~363~~	~~B~~	~~E~~ U	P	MBL
7439-96-5	Manganese	7.8			P	
7439-97-6	Mercury	0.013	~~B~~	~~N~~ J+	CV	MSH
7440-02-0	Nickel	1.6			P	
7440-09-7	Potassium	579 ~~326~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.58 ~~0.44~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.58	U		P	
7440-23-5	Sodium	61.4	~~B~~	J	P	
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	15.8			P	
7440-66-6	Zinc	3.9			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SM 4/18/2011

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS84-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-13

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3530			P	
7440-36-0	Antimony	1.2		N J-	P	MSL
7440-38-2	Arsenic	0.66	B	J	P	
7440-39-3	Barium	9.2	B	J	P	
7440-41-7	Beryllium	0.5 / ~~0.08~~	~~B~~	U	P	MRL
7440-43-9	Cadmium	0.13	B	J	P	
7440-70-2	Calcium	1170			P	
7440-47-3	Chromium	4.0			P	
7440-48-4	Cobalt	0.51	U		P	
7440-50-8	Copper	0.65			P	
7439-89-6	Iron	1900			P	
7439-92-1	Lead	7.4			P	
7439-95-4	Magnesium	506 / ~~111~~	~~B~~	E U	P	MRL
7439-96-5	Manganese	6.3			P	
7439-97-6	Mercury	0.013	B	N J+	CV	MSH
7440-02-0	Nickel	1.0			P	
7440-09-7	Potassium	506	U		P	
7782-49-2	Selenium	0.51 / ~~0.36~~	~~B~~	U	P	MRL
7440-22-4	Silver	0.51	U		P	
7440-23-5	Sodium	61.7	B	J	P	
7440-28-0	Thallium	1.0	U		P	
7440-62-2	Vanadium	5.6			P	
7440-66-6	Zinc	2.4			P	

SM 8/21/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB84-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-14

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8000			P
7440-36-0	Antimony	1.7		N J-	P
7440-38-2	Arsenic	1.1	B	J	P
7440-39-3	Barium	8.3	B	J	P
7440-41-7	Beryllium	0.61 ~~0.22~~	~~B~~	U	P
7440-43-9	Cadmium	0.15	B	J	P
7440-70-2	Calcium	674			P
7440-47-3	Chromium	10.4			P
7440-48-4	Cobalt	0.31	B	J	P
7440-50-8	Copper	1.1			P
7439-89-6	Iron	2320			P
7439-92-1	Lead	5.1			P
7439-95-4	Magnesium	612 ~~201~~	~~B~~ E	U	P
7439-96-5	Manganese	7.0			P
7439-97-6	Mercury	0.013	B	N J+	CV
7440-02-0	Nickel	1.6			P
7440-09-7	Potassium	61C ~~372~~	~~B~~	U	P
7782-49-2	Selenium	0.61	U		P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	66.8	B	J	P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	10.5			P
7440-66-6	Zinc	2.6			P

5/24/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS81-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-15

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 97.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	221			P	
7440-36-0	Antimony	1.3		N J-	P	MSL
7440-38-2	Arsenic	0.98	U		P	
7440-39-3	Barium	1.9	B	J	P	
7440-41-7	Beryllium	0.49 ~~0.10~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.49	U		P	
7440-70-2	Calcium	489 ~~79.0~~	~~B~~	U	P	MBL
7440-47-3	Chromium	~~0.94~~	~~B~~	J	P	
7440-48-4	Cobalt	0.49	U		P	
7440-50-8	Copper	0.17	B	J	P	
7439-89-6	Iron	235			P	
7439-92-1	Lead	2.9			P	
7439-95-4	Magnesium	489 ~~14.2~~	~~B~~	E U	P	MBL
7439-96-5	Manganese	7.6			P	
7439-97-6	Mercury	0.034	U	N	CV	
7440-02-0	Nickel	0.49 ~~0.18~~	~~B~~	U	P	MBL
7440-09-7	Potassium	489	U		P	
7782-49-2	Selenium	0.49	U		P	
7440-22-4	Silver	0.49 ~~0.04~~	~~B~~	U	P	MBL
7440-23-5	Sodium	43.3	B	J	P	
7440-28-0	Thallium	0.98	U		P	
7440-62-2	Vanadium	0.95	B	J	P	
7440-66-6	Zinc	0.84	B	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: SMC 8/2/2010

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB81-5-6

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-16

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 92.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1400			P	
7440-36-0	Antimony	1.3		N J-	P	MSL
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	2.5	~~B~~	J	P	
7440-41-7	Beryllium	0.53 ~~0.05~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.07	~~B~~	J	P	
7440-70-2	Calcium	528 ~~80.8~~	~~B~~	U	P	MBL
7440-47-3	Chromium	2.5			P	
7440-48-4	Cobalt	0.53	U		P	
7440-50-8	Copper	0.28	~~B~~	J	P	
7439-89-6	Iron	530			P	
7439-92-1	Lead	2.0			P	
7439-95-4	Magnesium	528 ~~59.0~~	~~B~~ E	U	P	MBL
7439-96-5	Manganese	4.7			P	
7439-97-6	Mercury	0.11		N J+	CV	MSH
7440-02-0	Nickel	0.60			P	
7440-09-7	Potassium	528	U		P	
7782-49-2	Selenium	0.53 ~~0.27~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.06	~~B~~	J	P	
7440-23-5	Sodium	45.4	~~B~~	J	P	
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	2.1	~~B~~	J	P	
7440-66-6	Zinc	1.4	~~B~~	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: SMM 6/21/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS71-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-17

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12300			P	
7440-36-0	Antimony	1.3		N J-	P	MSL
7440-38-2	Arsenic	0.67	B	J	P	
7440-39-3	Barium	14.4	B	J	P	
7440-41-7	Beryllium	0.53 0.10	B	U	P	MBL
7440-43-9	Cadmium	0.26	B	J	P	
7440-70-2	Calcium	577			P	
7440-47-3	Chromium	11.7			P	
7440-48-4	Cobalt	0.45	B	J	P	
7440-50-8	Copper	1.6			P	
7439-89-6	Iron	4040			P	
7439-92-1	Lead	8.8			P	
7439-95-4	Magnesium	531 405	B E	U	P	MBL
7439-96-5	Manganese	9.9			P	
7439-97-6	Mercury	0.11		N J+	CV	MSH
7440-02-0	Nickel	1.9			P	
7440-09-7	Potassium	531 207	B	U	P	MBL
7782-49-2	Selenium	0.28	B	J	P	
7440-22-4	Silver	0.53	U		P	
7440-23-5	Sodium	67.2	B	J	P	
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	14.4			P	
7440-66-6	Zinc	5.6			P	

SMK 8/21/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS71D-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-18

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 91.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12100			P	
7440-36-0	Antimony	1.3		N J-	P	MSL
7440-38-2	Arsenic	0.78	B	J	P	
7440-39-3	Barium	14.1	B	J	P	
7440-41-7	Beryllium	0.53 ~~0.08~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.27	B	J	P	
7440-70-2	Calcium	811			P	
7440-47-3	Chromium	11.4			P	
7440-48-4	Cobalt	0.39	B	J	P	
7440-50-8	Copper	1.2			P	
7439-89-6	Iron	4050			P	
7439-92-1	Lead	8.4			P	
7439-95-4	Magnesium	526 ~~395~~	~~B~~	~~E~~ U	P	MBL
7439-96-5	Manganese	9.3			P	
7439-97-6	Mercury	0.11		N J+	CV	MSH
7440-02-0	Nickel	2.1			P	
7440-09-7	Potassium	526 ~~191~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.45	B	J	P	
7440-22-4	Silver	0.53	U		P	
7440-23-5	Sodium	78.0	B	J	P	
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	14.7			P	
7440-66-6	Zinc	4.9			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 8/21/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB71-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-19

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	17000			P	
7440-36-0	Antimony	1.6	N	J	P	MSL
7440-38-2	Arsenic	1.6			P	
7440-39-3	Barium	37.1			P	
7440-41-7	Beryllium	0.60 ~~0.28~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.26	B	J	P	
7440-70-2	Calcium	60Z ~~103~~	B	U	P	MBL
7440-47-3	Chromium	13.0			P	
7440-48-4	Cobalt	0.80			P	
7440-50-8	Copper	3.5			P	
7439-89-6	Iron	2500			P	
7439-92-1	Lead	9.2			P	
7439-95-4	Magnesium	60Z ~~278~~	~~B~~	~~E~~ U	P	MBL
7439-96-5	Manganese	9.7			P	
7439-97-6	Mercury	0.041	~~B~~	~~N~~ J+	CV	MSH
7440-02-0	Nickel	8.9			P	
7440-09-7	Potassium	60K ~~523~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.60	U		P	
7440-22-4	Silver	0.60	U		P	
7440-23-5	Sodium	74.9	~~B~~	J	P	
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	13.7			P	
7440-66-6	Zinc	8.0			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: SMA 8/27/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB71D-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-20

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	22900			P	
7440-36-0	Antimony	1.6	N	J	P	MSL
7440-38-2	Arsenic	1.1	B	J	P	
7440-39-3	Barium	57.0			P	
7440-41-7	Beryllium	0.60 ~~0.26~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.39	B	J	P	
7440-70-2	Calcium	598 ~~111~~	~~B~~	U	P	MBL
7440-47-3	Chromium	17.4			P	
7440-48-4	Cobalt	1.4			P	
7440-50-8	Copper	4.2			P	
7439-89-6	Iron	3060			P	
7439-92-1	Lead	14.1			P	
7439-95-4	Magnesium	598 ~~403~~	~~B~~ E	U	P	MBL
7439-96-5	Manganese	12.6			P	
7439-97-6	Mercury	0.082	N	J+	CV	MSH
7440-02-0	Nickel	14.1			P	
7440-09-7	Potassium	738			P	
7782-49-2	Selenium	0.60 ~~0.30~~	~~B~~	U	P	MBL
7440-22-4	Silver	0.60	U		P	
7440-23-5	Sodium	81.0	B	J	P	
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	15.4			P	
7440-66-6	Zinc	11.8			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: SML 8/21/2010

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB85-1.5-2.5
1005132-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	**6.10**	0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**4.40**	2.41	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**2.46**	0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

8/20/2010

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB78-3.5-4.5
1005132-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**21.6**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**0.989**	J	2.33	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**20.8**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

6/20/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS77-0-1

1005132-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**4.70**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.60	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**4.70**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

SMK 8/20/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB77-3.5-4.5
1005132-04 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**5.70**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.22	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**5.70**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS79-0-1

1005132-05 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**2.20**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.08	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**2.20**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

SMK 8/20/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB79-11-12
1005132-06 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**11.2**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.71**	J	2.42	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**9.78**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

8/28/2010

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS83-0-1

1005132-07 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**3.40**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.85**	J	2.13	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**1.66**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

8/20/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB83-6.5-7.5
1005132-08 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**8.30**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.52**	J	2.35	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**7.01**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS62-0-1

1005132-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
Metals								
Chromium	**8.30**	0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**132**	6.47	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	ND	0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

8/20/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS74-0-1

1005132-10 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.90**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.05	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**2.90**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS86-0-1

1005132-11 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**12.6**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.29	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**12.6**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB86-3-4
1005132-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	**12.9**	0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**2.45**	2.39	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**10.8**	0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

8/20/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS84-0-1

1005132-13 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**4.00**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**4.00**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

SMT 8/26/2010

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB84-6-7

1005132-14 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**10.4**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.45	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**10.4**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS81-0-1

1005132-15 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**0.94**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.06	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**0.940**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB81-5-6

1005132-16 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.50**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.15	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**2.50**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

8/20/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS71-0-1

1005132-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
Metals								
Chromium	**11.7**	0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**3.25**	2.21	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**8.76**	0.500	mg/kg	1	[CALCI	06/11/2010 12:00	06/11/2010 12:23	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS71D-0-1

1005132-18 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**11.4**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.07**	J	2.19	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**10.4**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB71-4-5
1005132-19 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**13.0**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.22**	J	2.51	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**12.0**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB71D-4-5

1005132-20 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**17.4**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.51	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**17.4**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

8/20/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

Analyte	Affected Samples
Antimony	BBG-SB85-1.5-2.5-10B, BBG-SB78-3.5-4.5-10B
Beryllium	BBG-SB85-1.5-2.5-10B, BBG-SB78-3.5-4.5-10B, BBG-SS77-0-1-10B, BBG-SB77-3.5-4.5-10B, BBG-SS79-0-1-10B, BBG-SB79-11-12-10B, BBG-SS83-0-1-10B, BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS74-0-1-10B, BBG-SS86-0-1-10B, BBG-SB86-3-4-10B, BBG-SS84-0-1-10B, BBG-SB84-6-7-10B, BBG-SS81-0-1-10B, BBG-SB81-5-6-10B, BBG-SS71-0-1-10B, BBG-SS71D-0-1-10B, BBG-SB71-4-5-10B, BBG-SB71D-4-5-10B
Calcium	BBG-SB85-1.5-2.5-10B, BBG-SB78-3.5-4.5-10B, BBG-SS77-0-1-10B, BBG-SB77-3.5-4.5-10B, BBG-SS79-0-1-10B, BBG-SB79-11-12-10B, BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS74-0-1-10B, BBG-SS81-0-1-10B, BBG-SB81-5-6-10B, BBG-SB71-4-5-10B, BBG-SB71D-4-5-10B
Cobalt	BBG-SB85-1.5-2.5-10B, BBG-SB77-3.5-4.5-10B, BBG-SB83-6.5-7.5-10B, BBG-SS74-0-1-10B
Magnesium	BBG-SB85-1.5-2.5-10B, BBG-SS77-0-1-10B, BBG-SB77-3.5-4.5-10B, BBG-SS79-0-1-10B, BBG-SB79-11-12-10B, BBG-SS83-0-1-10B, BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS74-0-1-10B, BBG-SS86-0-1-10B, BBG-SB86-3-4-10B, BBG-SS84-0-1-10B, BBG-SB84-6-7-10B, BBG-SS81-0-1-10B, BBG-SB81-5-6-10B, BBG-SS71-0-1-10B, BBG-SS71D-0-1-10B, BBG-SB71-4-5-10B, BBG-SB71D-4-5-10B
Nickel	BBG-SS81-0-1-10B
Potassium	BBG-SB85-1.5-2.5-10B, BBG-SB77-3.5-4.5-10B, BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS86-0-1-10B, BBG-SB86-3-4-10B, BBG-SB84-6-7-10B, BBG-SS71-0-1-10B, BBG-SS71D-0-1-10B, BBG-SB71-4-5-10B
Selenium	BBG-SB78-3.5-4.5-10B, BBG-SS77-0-1-10B, BBG-SS83-0-1-10B, BBG-SB83-6.5-7.5-10B, BBG-SS74-0-1-10B, BBG-SB86-3-4-10B, BBG-SS84-0-1-10B, BBG-SB81-5-6-10B, BBG-SB71D-4-5-10B
Silver	BBG-SB83-6.5-7.5-10B, BBG-SS62-0-1-10B, BBG-SS81-0-1-10B
Thallium	BBG-SB78-3.5-4.5-10B

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

Positive results and RLs reported for antimony for the soil samples should be considered biased low quantitative estimates, and may be higher than reported. The associated matrix spike recoveries were below the acceptance limits for this analyte. The low recovery indicates the presence

of interferences for samples of similar matrix. Positive results have been marked with "J" qualifiers to indicate that they are biased low quantitative estimates. RLs are marked "UJ".

The positive results reported for mercury for all samples should be considered biased high quantitative estimates and may be lower than reported. The associated matrix spike recovery was above the acceptance limit for this analyte. The high recovery indicates the presence of interferences for mercury for samples of similar matrix. The positive results for the analyte have been marked with "J+" qualifiers to indicate that they are biased high quantitative estimates.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

All criteria were met. No qualifiers were applied.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples BBG-SS71-0-1-10B and BBG-SS71D-0-1-10B, and BBG-SB71-4-5-10B and BBG-SB71D-4-5-10B were submitted to the laboratory evaluate sampling and analytical precision for those analytes determined to be present. Results for these duplicate samples are presented in Tables 2 and 3. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal an acceptance criterion of 40 percent for values greater than five times the (RL) (or $\pm$ twice the RL for results less than five times the RL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005133
Fraction: Inorganic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for metals and hexavelent chromium. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 2004 and " Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

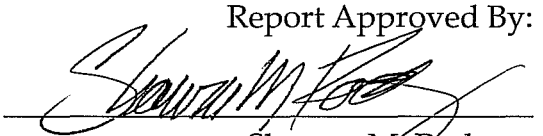
These documents specify procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawne M. Rodgers
President

8/29/2010

Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody (COC) documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following positive results are considered to be nondetect due to the presence of these analytes in the associated continuing calibration blanks and/or preparation blanks presented in Table 2. The analytes were detected in the associated continuing calibration blanks and/or preparation blanks at levels less than the reporting limit (RL), indicating the possibility of a false positive at this level. The affected results for these samples are less than the RL. Replacing the sample result with the RL and marking it "U" has indicated this.

Analyte	Affected Samples
Antimony	BBG-SS75-0-1-10B, BBG-SB76-6-7-10B
Beryllium	BBG-SS73-0-1-10B, BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SS63-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61-6-7-10B, BBG-SB61D-6-7-10B, BBG-SS67-0-1-10B, BBG-SS72-0-1-10B, BBG-SB72-2-3-10B, BBG-SS88-0-1-10B, BBG-SB88-2.5-3.5-10B, BBG-SS76-0-1-10B, BBG-SB76-6-7-10B, BBG-SS87-0-1-10B, BBG-SB87-3-4-10B, BBG-SS68-0-1-10B
Calcium	BBG-SS73-0-1-10B, BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61-6-7-10B, BBG-SB61D-6-7-10B, BBG-SB88-2.5-3.5-10B, BBG-SS68-0-1-10B
Cobalt	BBG-SS73-0-1-10B, BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61D-6-7-10B, BBG-SS67-0-1-10B, BBG-SS72-0-1-10B
Copper	BBG-SS87-0-1-10B, BBG-SS68-0-1-10B
Magnesium	BBG-SS73-0-1-10B, BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SS63-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61-6-7-10B, BBG-SB61D-6-7-10B, BBG-SS72-0-1-10B, BBG-SB72-2-3-10B, BBG-SS88-0-1-10B, BBG-SB88-2.5-3.5-10B, BBG-SS76-0-1-10B, BBG-SS87-0-1-10B, BBG-SS68-0-1-10B
Nickel	BBG-SS68-0-1-10B
Potassium	BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SS63-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS67-0-1-10B, BBG-SB72-2-3-10B, BBG-SS88-0-1-10B, BBG-SB88-2.5-3.5-10B, BBG-SS87-0-1-10B
Silver	BBG-SB61-6-7-10B, BBG-SS67-0-1-10B, BBG-SS68-0-1-10B
Sodium	BBG-SS73-0-1-10B, BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SS63-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61-6-7-10B, BBG-SB61D-6-7-10B, BBG-SS72-0-1-10B, BBG-SB72-2-3-10B, BBG-SS88-0-1-10B, BBG-SB88-2.5-3.5-10B, BBG-SS76-0-1-10B, BBG-SB76-6-7-10B, BBG-SS87-0-1-10B, BBG-SB87-3-4-10B, BBG-SS68-0-1-10B

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

Positive results and RLs reported for antimony for the soil samples should be considered biased low quantitative estimates, and may be higher than reported. The associated matrix spike recoveries were below the

acceptance limits for this analyte. The low recovery indicates the presence of interferences for samples of similar matrix. Positive results have been marked with "J" qualifiers to indicate that they are biased low quantitative estimates. RLs are marked "UJ".

The positive results reported for lead for all samples should be considered biased high quantitative estimates and may be lower than reported. The associated matrix spike recovery was above the acceptance limit for this analyte. The high recovery indicates the presence of interferences for lead for samples of similar matrix. The positive results for the analyte have been marked with "J+" qualifiers to indicate that they are biased high quantitative estimates.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

Positive magnesium results reported for the samples, not previously qualified, are quantitative estimates. The ICP serial precision criterion was exceeded for this analyte. The lack of precision may be due to interferences in samples of similar matrix. The positive magnesium results have been marked with "J" qualifiers to indicate that they are quantitative estimates.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples BBG-SS61-0-1-10B and BBG-SS61D-0-1-10B, and BBG-SB61-6-7-10B and BBG-SB61D-6-7-10B were submitted to the laboratory evaluate sampling and analytical precision for those analytes determined to be present. Results for these duplicate samples are presented in Tables 2 and 3. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal an acceptance criterion of 40 percent for values greater than five times the (RL) (or $\pm$ twice the RL for results less than five times the RL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Metals (Except Mercury)	Method 6010B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Mercury	Method 7471A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Hexavalent Chromium	Method 7196A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS73-0-1-10B	1005133	1005133-01	5/14/2010	Soil	X	X	X		X	X
BBG-SB74-4-5-10B	1005133	1005133-02	5/17/2010	Soil	X	X	X		X	X
BBG-SS75-0-1-10B	1005133	1005133-03	5/17/2010	Soil	X	X	X		X	X
BBG-SB75-3.5-4.5-10B	1005133	1005133-04	5/17/2010	Soil	X	X	X		X	X
BBG-SS63-0-1-10B	1005133	1005133-05	5/18/2010	Soil	X	X	X		X	X
BBG-SB63-5.5-6.5-10B	1005133	1005133-06	5/18/2010	Soil	X	X	X		X	X
BBG-SS61-0-1-10B	1005133	1005133-07	5/18/2010	Soil	X	X	X		X	X
BBG-SS61D-0-1-10B	1005133	1005133-08	5/18/2010	Soil	X	X	X		X	X
BBG-SB61-6-7-10B	1005133	1005133-09	5/18/2010	Soil	X	X	X		X	X
BBG-SB61D-6-7-10B	1005133	1005133-10	5/18/2010	Soil	X	X	X		X	X
BBG-SS67-0-1-10B	1005133	1005133-11	5/18/2010	Soil	X	X	X		X	X
BBG-SS72-0-1-10B	1005133	1005133-12	5/19/2010	Soil	X	X	X		X	X
BBG-SB72-2-3-10B	1005133	1005133-13	5/19/2010	Soil	X	X	X		X	X
BBG-SS88-0-1-10B	1005133	1005133-14	5/19/2010	Soil	X	X	X		X	X
BBG-SB88-2.5-3.5-10B	1005133	1005133-15	5/19/2010	Soil	X	X	X		X	X
BBG-SS76-0-1-10B	1005133	1005133-16	5/19/2010	Soil	X	X	X		X	X
BBG-SB76-6-7-10B	1005133	1005133-17	5/19/2010	Soil	X	X	X		X	X
BBG-SS87-0-1-10B	1005133	1005133-18	5/19/2010	Soil	X	X	X		X	X
BBG-SB87-3-4-10B	1005133	1005133-19	5/19/2010	Soil	X	X	X		X	X
BBG-SS68-0-1-10B	1005133	1005133-20	5/20/2010	Soil	X	X	X		X	X

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
PB	Aluminum	3.067 J mg/Kg	All Samples
	Antimony	0.6 J mg/Kg	
	Beryllium	0.062 J mg/Kg	
	Calcium	43.61 J mg/Kg	
	Chromium	0.137 J mg/Kg	
	Copper	0.1 J mg/Kg	
	Magnesium	1.523 J mg/Kg	
	Manganese	0.062 J mg/Kg	
	Potassium	-142.28 J mg/Kg	
	Silver	0.048 J mg/Kg	
	Sodium	22.074 J mg/Kg	
CCB6	Aluminum	54.1 J µg/L	SS73-0-1, SB74-4-5, SS75-0-1, SB75-3.5-4.5, SS63-0-1
	Antimony	2.5 J µg/L	
	Beryllium	1.2 J µg/L	
	Calcium	382.5 J µg/L	
	Chromium	1 J µg/L	
	Magnesium	17.4 J µg/L	
	Manganese	0.5 J µg/L	
	Nickel	0.8 J µg/L	
	Potassium	-1423.2 J µg/L	
	Thallium	5.2 J µg/L	
CCB7	Aluminum	31.8 J µg/L	SS73-0-1, SB74-4-5, SS75-0-1, SB75-3.5-4.5, SS63-0-1,
	Antimony	3.3 J µg/L	SB63-5.5-6.5, SS61-0-1, SS61D-0-1, SB61-6-7, SB61D-6-7,
	Calcium	372.9 J µg/L	SS67-0-1, SS72-0-1, SB72-2-3, SS88-0-1, SB88-2.5-3.5
	Chromium	1.1 J µg/L	
	Cobalt	1.6 J µg/L	

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
	Manganese	0.4 J µg/L	
	Potassium	-1438.8 J µg/L	
CCB8	Aluminum	34.9 J µg/L	SB63-5.5-6.5, SS61-0-1, SS61D-0-1, SB61-6-7, SB61D-6-7,
	Antimony	5 J µg/L	SS67-0-1, SS72-0-1, SB72-2-3, SS88-0-1, SB88-2.5-3.5,
	Beryllium	0.8 J µg/L	SS76-0-1, SB76-6-7, SS87-0-1, SB87-3-4, SS68-0-1
	Calcium	379.4 J µg/L	
	Chromium	2 J µg/L	
	Iron	27.6 J µg/L	
	Magnesium	14.9 J µg/L	
	Manganese	0.6 J µg/L	
	Nickel	1.3 J µg/L	
	Potassium	-1423.4 J µg/L	
	Thallium	4.1 J µg/L	
CCB9	Antimony	3.2 J µg/L	SS76-0-1, SB76-6-7, SS87-0-1, SB87-3-4, SS68-0-1
	Calcium	374.5 J µg/L	
	Chromium	1 J µg/L	
	Manganese	0.3 J µg/L	
	Potassium	-1432.2 J µg/L	
	Selenium	2.2 J µg/L	

Table 3 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SS61-0-1 and SS61D-0-1

Analyte	Sample Result (mg/Kg)		Field Duplicate Result (mg/Kg)		RPD	ACTION
	SS61-0-1		SS61D-0-1			
Aluminum	3480		2350		39	
Antimony	1.3	J-	1.5	J-	14	
Barium	5.3	J	3.9	J	30	
Cadmium	0.12	J	0.09	J	29	
Chromium	3.6		2.6		32	
Copper	0.58		0.6		3	
Iron	1730		1040		50	
Lead	5.1	J+	2.9	J+	55	
Manganese	9.2		8		14	
Mercury	0.023	J	ND		NC	
Nickel	1.1		0.84		27	
Selenium	0.29	J	0.26	J	11	
Vanadium	4.8		3.5		31	
Zinc	4.2		4.7		11	
Hexavalent Chromium	0.88	J	ND		NC	

Table 4 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SB61-6-7 and SB61D-6-7

Analyte	Sample Result (mg/Kg)		Field Duplicate Result (mg/Kg)		RPD	ACTION
	SB61-6-7		SB61D-6-7			
Aluminum	16600		13000		24	
Antimony	1.5	J-	1.3	J-	14	
Arsenic	0.5	J	ND		NC	
Barium	13.5	J	12.3	J	9	
Cadmium	0.24	J	0.17	J	34	
Chromium	13.6		11.5		17	
Cobalt	0.59		ND	J	NC	
Copper	1.4		1.4		0	
Iron	2910		2670		9	
Lead	4.8	J+	4.7	J+	2	
Manganese	9		8.4		7	
Nickel	2.5		2.1		17	
Potassium	729		612		17	
Vanadium	14.9		13.5		10	
Zinc	5.3		4.4		19	
Hexavalent Chromium	ND		0.934	J	NC	

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS73-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-01

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4950			P	
7440-36-0	Antimony	1.2		N J+	P	MSC
7440-38-2	Arsenic	0.81	B	J	P	
7440-39-3	Barium	13.2	B	J	P	
7440-41-7	Beryllium	0.52 ~~0.17~~	~~B~~	U	P	MBC
7440-43-9	Cadmium	0.14	B	J	P	
7440-70-2	Calcium	521 ~~418~~	~~B~~	U	P	MBC
7440-47-3	Chromium	3.8			P	
7440-48-4	Cobalt	0.52 ~~0.40~~	~~B~~	U	P	MBC
7440-50-8	Copper	0.72			P	
7439-89-6	Iron	1460		*	P	
7439-92-1	Lead	6.8		N J+	P	MSH
7439-95-4	Magnesium	521 ~~181~~	~~B~~	E U	P	MBC
7439-96-5	Manganese	12.1			P	
7439-97-6	Mercury	0.027	B	J	CV	
7440-02-0	Nickel	1.5			P	
7440-09-7	Potassium	521	U		P	
7782-49-2	Selenium	0.52	U		P	
7440-22-4	Silver	0.52	U		P	
7440-23-5	Sodium	521 ~~64.4~~	~~B~~	U	P	MBC
7440-28-0	Thallium	1.0	U		P	
7440-62-2	Vanadium	5.4			P	
7440-66-6	Zinc	4.9			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB74-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-02

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 92.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7340			P	
7440-36-0	Antimony	1.3		N J-	P	MSL
7440-38-2	Arsenic	1.5			P	
7440-39-3	Barium	9.0	B	J	P	
7440-41-7	Beryllium	0.54 ~~0.13~~	B	U	P	MBL
7440-43-9	Cadmium	0.15	B	J	P	
7440-70-2	Calcium	543 ~~77.6~~	B	U	P	MBL
7440-47-3	Chromium	9.5			P	
7440-48-4	Cobalt	0.54 ~~0.42~~	B	U	P	MBL
7440-50-8	Copper	2.9			P	
7439-89-6	Iron	2100			P	
7439-92-1	Lead	6.1		N J+	P	MSL
7439-95-4	Magnesium	543 ~~306~~	B	E U	P	MBL
7439-96-5	Manganese	6.0			P	
7439-97-6	Mercury	0.036	U		CV	
7440-02-0	Nickel	1.2			P	
7440-09-7	Potassium	543 ~~326~~	B	U	P	MBL
7782-49-2	Selenium	0.37	B	J	P	
7440-22-4	Silver	0.54	U		P	
7440-23-5	Sodium	58.5	B	J	P	
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	10.6			P	
7440-66-6	Zinc	4.3			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS75-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-03

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 84.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11100			P	
7440-36-0	Antimony	~~1.1~~ 1.1	~~B~~	N U	P	MB
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	11.2	~~B~~	J	P	
7440-41-7	Beryllium	0.57 ~~0.19~~	~~B~~	U	P	MB
7440-43-9	Cadmium	0.17	~~B~~	J	P	
7440-70-2	Calcium	567 ~~340~~	~~B~~	U	P	MB
7440-47-3	Chromium	10.3			P	
7440-48-4	Cobalt	0.57 ~~0.35~~	~~B~~	U	P	MB
7440-50-8	Copper	0.74			P	
7439-89-6	Iron	2200			P	
7439-92-1	Lead	6.6		~~N~~ J+	P	MSH
7439-95-4	Magnesium	567 ~~322~~	~~B~~	~~E~~ U	P	MB
7439-96-5	Manganese	7.8			P	
7439-97-6	Mercury	0.058			CV	
7440-02-0	Nickel	2.0			P	
7440-09-7	Potassium	567 ~~203~~	~~B~~	U	P	MB
7782-49-2	Selenium	~~0.46~~	~~B~~	J	P	
7440-22-4	Silver	0.57	U		P	
7440-23-5	Sodium	567 ~~60.6~~	~~B~~	U	P	MB
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	12.7			P	
7440-66-6	Zinc	3.6			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB75-3.5-4.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-04

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15300			P	
7440-36-0	Antimony	1.2		N J-	P	MSL
7440-38-2	Arsenic	0.77	B	J	P	
7440-39-3	Barium	14.2	B	J	P	
7440-41-7	Beryllium	0.57 0.18	B	U	P	MBL
7440-43-9	Cadmium	0.32	B	J	P	
7440-70-2	Calcium	566 71.9	B	U	P	MBL
7440-47-3	Chromium	15.4			P	
7440-48-4	Cobalt	0.57	U		P	
7440-50-8	Copper	0.71			P	
7439-89-6	Iron	5670			P	
7439-92-1	Lead	9.0		N J+	P	MSH
7439-95-4	Magnesium	566 428	B	E U	P	MBL
7439-96-5	Manganese	9.4			P	
7439-97-6	Mercury	0.023	B	J	CV	
7440-02-0	Nickel	1.9			P	
7440-09-7	Potassium	566 416	B	U	P	MBL
7782-49-2	Selenium	0.33	B	J	P	
7440-22-4	Silver	0.57	U		P	
7440-23-5	Sodium	566 51.1	B	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	15.1			P	
7440-66-6	Zinc	4.0			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SM 8/29/2011

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS63-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-05

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 94.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2060			P	
7440-36-0	Antimony	1.3		N J-	P	MSL
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	9.5	B	J	P	
7440-41-7	Beryllium	0.53 0.14	B	U	P	MBL
7440-43-9	Cadmium	0.10	B		P	
7440-70-2	Calcium	596			P	
7440-47-3	Chromium	2.9			P	
7440-48-4	Cobalt	0.53	U		P	
7440-50-8	Copper	1.1			P	
7439-89-6	Iron	1530			P	
7439-92-1	Lead	9.0		N J+	P	MSH
7439-95-4	Magnesium	531 136	B	E U	P	MBL
7439-96-5	Manganese	12.5			P	
7439-97-6	Mercury	0.024	B	J	CV	
7440-02-0	Nickel	0.71			P	
7440-09-7	Potassium	531 53.4	B	U	P	MBL
7782-49-2	Selenium	0.37	B	J	P	
7440-22-4	Silver	0.53	U		P	
7440-23-5	Sodium	531 66.0	B	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	5.0			P	
7440-66-6	Zinc	3.9			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB63-5.5-6.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-06

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 83.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13200			P	
7440-36-0	Antimony	1.6		N J-	P	MSL
7440-38-2	Arsenic	1.8			P	
7440-39-3	Barium	15.6	B	J	P	
7440-41-7	Beryllium	0.60 0.20	B	U	P	MBL
7440-43-9	Cadmium	0.28	B	J	P	
7440-70-2	Calcium	600 133	B	U	P	MBL
7440-47-3	Chromium	15.7			P	
7440-48-4	Cobalt	0.60 0.34	B	U	P	MBL
7440-50-8	Copper	1.7			P	
7439-89-6	Iron	4470			P	
7439-92-1	Lead	6.4		N J	P	MSH
7439-95-4	Magnesium	600 361	B	E U	P	MBL
7439-96-5	Manganese	7.4			P	
7439-97-6	Mercury	0.040	U		CV	
7440-02-0	Nickel	2.2			P	
7440-09-7	Potassium	600 406	B	U	P	MBL
7782-49-2	Selenium	0.60	U		P	
7440-22-4	Silver	0.60	U		P	
7440-23-5	Sodium	600 117	B	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	24.5			P	
7440-66-6	Zinc	5.4			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMM 8/29/10

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS61-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-07

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3480			P	
7440-36-0	Antimony	1.3		N/J	P	MSL
7440-38-2	Arsenic	1.1	U	✓	P	
7440-39-3	Barium	5.3	~~B~~	J	P	
7440-41-7	Beryllium	0.53 ~~0.11~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.12	~~B~~	J	P	
7440-70-2	Calcium	534 ~~101~~	~~B~~	U	P	MBL
7440-47-3	Chromium	3.6			P	
7440-48-4	Cobalt	0.53 ~~0.26~~	~~B~~	U	P	MBL
7440-50-8	Copper	0.58			P	
7439-89-6	Iron	1730		*	P	
7439-92-1	Lead	5.1		N J	P	MSH
7439-95-4	Magnesium	534 ~~80.2~~	~~B~~ E	U	P	MBL
7439-96-5	Manganese	9.2			P	
7439-97-6	Mercury	0.023	~~B~~	J	CV	
7440-02-0	Nickel	1.1			P	
7440-09-7	Potassium	534	U		P	
7782-49-2	Selenium	0.29	~~B~~	J	P	
7440-22-4	Silver	0.53	U		P	
7440-23-5	Sodium	534 ~~55.9~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	4.8			P	
7440-66-6	Zinc	4.2			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS61D-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-08

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 93.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2350			P	
7440-36-0	Antimony	1.5		N J-	P	MSL
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	3.9	B	J	P	
7440-41-7	Beryllium	0.54 0.07	B	U	P	MBL
7440-43-9	Cadmium	0.09	B	J	P	
7440-70-2	Calcium	536 95.0	B	U	P	MBL
7440-47-3	Chromium	2.6			P	
7440-48-4	Cobalt 0.54	536 SR 0.33	B	U	P	MBL
7440-50-8	Copper	0.60			P	
7439-89-6	Iron	1040		*	P	
7439-92-1	Lead	2.9		N J+	P	MSH
7439-95-4	Magnesium	534 66.9	B	E U	P	MBL
7439-96-5	Manganese	8.0			P	
7439-97-6	Mercury	0.035	U		CV	
7440-02-0	Nickel	0.84			P	
7440-09-7	Potassium	536	U		P	
7782-49-2	Selenium	0.26	B	J	P	
7440-22-4	Silver	0.54	U		P	
7440-23-5	Sodium	534 53.7	B	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	3.5			P	
7440-66-6	Zinc	4.7			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB61-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-09

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	16600			P	
7440-36-0	Antimony	1.5		N J-	P	MSL
7440-38-2	Arsenic	0.50	B	J	P	
7440-39-3	Barium	13.5	B	J	P	
7440-41-7	Beryllium	0.55 0.18	B	U	P	MBL
7440-43-9	Cadmium	0.24	B	J	P	
7440-70-2	Calcium	552 138	B	U	P	MBL
7440-47-3	Chromium	13.6			P	
7440-48-4	Cobalt	0.59			P	
7440-50-8	Copper	1.4			P	
7439-89-6	Iron	2910			P	
7439-92-1	Lead	4.8		N J+	P	MSH
7439-95-4	Magnesium	552 439	B	E U	P	MBL
7439-96-5	Manganese	9.0			P	
7439-97-6	Mercury	0.038	U		CV	
7440-02-0	Nickel	2.5			P	
7440-09-7	Potassium	729			P	
7782-49-2	Selenium	0.55	U		P	
7440-22-4	Silver	0.55 0.04	B	U	P	MBL
7440-23-5	Sodium	552 63.1	B	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	14.9			P	
7440-66-6	Zinc	5.3			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 8/2/10

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB61D-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-10

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	13000			P	
7440-36-0	Antimony	1.3		N J-	P	MSL
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	12.3	~~B~~	J	P	
7440-41-7	Beryllium	0.57 ~~0.18~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	~~0.17~~	~~B~~	J	P	
7440-70-2	Calcium	561 ~~122~~	~~B~~	U	P	MBL
7440-47-3	Chromium	11.5			P	
7440-48-4	Cobalt	0.57 ~~0.56~~	~~B~~	U	P	MBL
7440-50-8	Copper	1.4			P	
7439-89-6	Iron	2670			P	
7439-92-1	Lead	4.7		N J+	P	MSL
7439-95-4	Magnesium	561 ~~378~~	~~B~~	E U	P	MBL
7439-96-5	Manganese	~~8.4~~			P	
7439-97-6	Mercury	0.038	U		CV	
7440-02-0	Nickel	2.1			P	
7440-09-7	Potassium	612			P	
7782-49-2	Selenium	0.57	U		P	
7440-22-4	Silver	0.57	U		P	
7440-23-5	Sodium	561 ~~53.9~~	~~B~~	U	P	MB
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	13.5			P	
7440-66-6	Zinc	4.4			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS67-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-11

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 44.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	6450			P	
7440-36-0	Antimony	3.0		N J-	P	MSL
7440-38-2	Arsenic	1.3	B	J	P	
7440-39-3	Barium	9.3	B	J	P	
7440-41-7	Beryllium	1.1 0.31	B	U	P	MBL
7440-43-9	Cadmium	0.19	B	J	P	
7440-70-2	Calcium	2470			P	
7440-47-3	Chromium	8.4			P	
7440-48-4	Cobalt	1.1 0.55	B	U	P	MBL
7440-50-8	Copper	8.4			P	
7439-89-6	Iron	2760			P	
7439-92-1	Lead	26.6		N J+	P	MSH
7439-95-4	Magnesium	2120		B J	P	SD
7439-96-5	Manganese	9.7			P	
7439-97-6	Mercury	0.054	B	J	CV	
7440-02-0	Nickel	2.0			P	
7440-09-7	Potassium	1120 438	B	U	P	MBL
7782-49-2	Selenium	0.61	B	J	P	
7440-22-4	Silver	1.1 0.11	B	U	P	MBL
7440-23-5	Sodium	4840			P	
7440-28-0	Thallium	2.2	U		P	
7440-62-2	Vanadium	11.3			P	
7440-66-6	Zinc	8.6			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS72-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-12

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 95.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3100			P	
7440-36-0	Antimony	1.1		N J-	P	MSL
7440-38-2	Arsenic	0.62	B	J	P	
7440-39-3	Barium	11.7	B	J	P	
7440-41-7	Beryllium	0.51 0.05	B	U	P	MBL
7440-43-9	Cadmium	0.12	B	J	P	
7440-70-2	Calcium	300	B	J	P	
7440-47-3	Chromium	3.6			P	
7440-48-4	Cobalt	0.51 0.28	B	U	P	MBL
7440-50-8	Copper	0.93			P	
7439-89-6	Iron	1660			P	
7439-92-1	Lead	3.2		N J+	P	MSH
7439-95-4	Magnesium	507 119	B	E U	P	MBL
7439-96-5	Manganese	11.7			P	
7439-97-6	Mercury	0.019	B	J	CV	
7440-02-0	Nickel	1.1			P	
7440-09-7	Potassium	507	U		P	
7782-49-2	Selenium	0.51	U		P	
7440-22-4	Silver	0.51	U		P	
7440-23-5	Sodium	507 43.7	B	U	P	MBL
7440-28-0	Thallium	1.0	U		P	
7440-62-2	Vanadium	5.2			P	
7440-66-6	Zinc	3.7			P	

SMT 7/9/10

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB72-2-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-13

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12100			P	
7440-36-0	Antimony	1.4		N J-	P	MSL
7440-38-2	Arsenic	1.8			P	
7440-39-3	Barium	12.5	B	J	P	
7440-41-7	Beryllium	0.57 0.15	B	U	P	MBL
7440-43-9	Cadmium	0.31	B	U	P	
7440-70-2	Calcium	227	B	J	P	
7440-47-3	Chromium	13.0			P	
7440-48-4	Cobalt	0.60			P	
7440-50-8	Copper	1.6			P	
7439-89-6	Iron	6390		*	P	
7439-92-1	Lead	5.9		N J+	P	MSL
7439-95-4	Magnesium	568 400	B	E U	P	MBL
7439-96-5	Manganese	11.6			P	
7439-97-6	Mercury	0.038	U		CV	
7440-02-0	Nickel	3.0			P	
7440-09-7	Potassium	568 420	B	U	P	MBL
7782-49-2	Selenium	0.43	B	J	P	
7440-22-4	Silver	0.57	U		P	
7440-23-5	Sodium	568 48.5	B	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	18.9			P	
7440-66-6	Zinc	5.8			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS88-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-14

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 91.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	12800			P	
7440-36-0	Antimony	1.4		~~N~~ J-	P	MSL
7440-38-2	Arsenic	3.2			P	
7440-39-3	Barium	25.8			P	
7440-41-7	Beryllium	0.53 ~~0.27~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.51	~~B~~	J	P	
7440-70-2	Calcium	1860			P	
7440-47-3	Chromium	16.8			P	
7440-48-4	Cobalt	0.55	U		P	
7440-50-8	Copper	2.5			P	
7439-89-6	Iron	9090			P	
7439-92-1	Lead	22.3		~~N~~ J+	P	MSH
7439-95-4	Magnesium	548 ~~496~~	~~B~~	E U	P	MBL
7439-96-5	Manganese	11.9			P	
7439-97-6	Mercury	0.023	~~B~~	J	CV	
7440-02-0	Nickel	2.6			P	
7440-09-7	Potassium	548 ~~468~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.27	~~B~~	J	P	
7440-22-4	Silver	0.55	U		P	
7440-23-5	Sodium	548 ~~70.5~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	25.3			P	
7440-66-6	Zinc	15.6			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMR 8/9/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB88-2.5-3.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-15

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 72.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	16500			P	
7440-36-0	Antimony	1.4		N J-	P	MSL
7440-38-2	Arsenic	6.0			P	
7440-39-3	Barium	20.6	B	J	P	
7440-41-7	Beryllium	0.66 ~~0.19~~	B	U	P	MB
7440-43-9	Cadmium	~~0.46~~	B	J	P	
7440-70-2	Calcium	662 ~~112~~	B	U	P	MB
7440-47-3	Chromium	23.6			P	
7440-48-4	Cobalt	0.66	U		P	
7440-50-8	Copper	1.6			P	
7439-89-6	Iron	9690			P	
7439-92-1	Lead	9.3		N J+	P	MSH
7439-95-4	Magnesium	662 ~~553~~	B	E U	P	MB
7439-96-5	Manganese	10.5			P	
7439-97-6	Mercury	0.045	U		CV	
7440-02-0	Nickel	2.3			P	
7440-09-7	Potassium	662 ~~661~~	B	U	P	MB
7782-49-2	Selenium	~~0.59~~	B	J	P	
7440-22-4	Silver	0.66	U		P	
7440-23-5	Sodium	662 ~~84.3~~	B	U	P	MB
7440-28-0	Thallium	1.3	U		P	
7440-62-2	Vanadium	56.8			P	
7440-66-6	Zinc	6.7			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS76-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-16

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 97.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3660			P	
7440-36-0	Antimony	1.3		~~N~~ J-	P	MSL
7440-38-2	Arsenic	1.1			P	
7440-39-3	Barium	11.1	~~B~~	J	P	
7440-41-7	Beryllium	0.51 ~~0.12~~	~~B~~	U	P	MBC
7440-43-9	Cadmium	0.14	~~B~~	J	P	
7440-70-2	Calcium	1130			P	
7440-47-3	Chromium	3.5			P	
7440-48-4	Cobalt	0.51	U		P	
7440-50-8	Copper	1.2			P	
7439-89-6	Iron	1500		*	P	
7439-92-1	Lead	6.0		~~N~~ J+	P	MSH
7439-95-4	Magnesium	508 ~~146~~	~~B~~	E U	P	MBC
7439-96-5	Manganese	16.6			P	
7439-97-6	Mercury	0.018	~~B~~	J	CV	
7440-02-0	Nickel	1.2			P	
7440-09-7	Potassium	5.2	~~B~~	J	P	
7782-49-2	Selenium	0.30	~~B~~	J	P	
7440-22-4	Silver	0.51	U		P	
7440-23-5	Sodium	508 ~~52.9~~	~~B~~	U	P	MBC
7440-28-0	Thallium	1.0	U		P	
7440-62-2	Vanadium	4.7			P	
7440-66-6	Zinc	4.1			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 5/21/2010

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB76-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-17

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16200			P
7440-36-0	Antimony	1.2 ~~0.96~~	~~B~~	~~N~~ U	P
7440-38-2	Arsenic	9.0			P
7440-39-3	Barium	22.0	~~B~~	~~N~~ J	P
7440-41-7	Beryllium	0.58 ~~0.33~~	~~B~~	U	P
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium	159	~~B~~	J	P
7440-47-3	Chromium	32.3			P
7440-48-4	Cobalt	0.58	U		P
7440-50-8	Copper	4.5			P
7439-89-6	Iron	41800		~~*~~	P
7439-92-1	Lead	12.9		~~N~~ J+	P
7439-95-4	Magnesium	660		~~B~~ J	P
7439-96-5	Manganese	16.6			P
7439-97-6	Mercury	0.040	U		CV
7440-02-0	Nickel	2.4			P
7440-09-7	Potassium	1190			P
7782-49-2	Selenium	1.1			P
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	583 ~~56.2~~	~~B~~	U	P
7440-28-0	Thallium	1.7			P
7440-62-2	Vanadium	53.4			P
7440-66-6	Zinc	10.0			P

MBL

MBL

MSH SD

MBL

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS87-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-18

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9520			P	
7440-36-0	Antimony	1.3		N J-	P	MSL
7440-38-2	Arsenic	1.5			P	
7440-39-3	Barium	9.3	~~B~~	J	P	
7440-41-7	Beryllium	0.58 ~~0.13~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.15	~~B~~	J	P	
7440-70-2	Calcium	147	~~B~~	J	P	
7440-47-3	Chromium	12.4			P	
7440-48-4	Cobalt	0.58	U		P	
7440-50-8	Copper	0.58 ~~0.45~~	~~B~~	U	P	MBL
7439-89-6	Iron	1290		~~J~~	P	
7439-92-1	Lead	7.6		~~N~~ J+	P	MSH
7439-95-4	Magnesium	582 ~~250~~	~~B~~ E	U	P	MBL
7439-96-5	Manganese	6.2			P	
7439-97-6	Mercury	0.056			CV	
7440-02-0	Nickel	1.3			P	
7440-09-7	Potassium	582 ~~128~~	~~B~~	U	P	MBL
7782-49-2	Selenium	0.95			P	
7440-22-4	Silver	0.58	U		P	
7440-23-5	Sodium	582 ~~67.7~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	11.8			P	
7440-66-6	Zinc	2.6			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMH 6/29/10

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB87-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-19

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 73.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	25600			P	
7440-36-0	Antimony	1.6		N J-	P	MSL
7440-38-2	Arsenic	2.0			P	
7440-39-3	Barium	21.1	B	J	P	
7440-41-7	Beryllium	0.65 ~~0.29~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.57	B	J	P	
7440-70-2	Calcium	202	B	J	P	
7440-47-3	Chromium	28.2			P	
7440-48-4	Cobalt	0.46	B	J	P	
7440-50-8	Copper	0.90			P	
7439-89-6	Iron	8310		*	P	
7439-92-1	Lead	9.3		N J1	P	MSA SD
7439-95-4	Magnesium	820		E J	P	
7439-96-5	Manganese	12.2			P	
7439-97-6	Mercury	0.037	B	J	CV	
7440-02-0	Nickel	3.7			P	
7440-09-7	Potassium	930			P	
7782-49-2	Selenium	0.96			P	
7440-22-4	Silver	0.65	U		P	
7440-23-5	Sodium	648 ~~84.0~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.3	U		P	
7440-62-2	Vanadium	39.4			P	
7440-66-6	Zinc	9.3			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

8/27/10

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS68-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-20

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 84.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	235			P	
7440-36-0	Antimony	1.3		~~N~~ J-	P	MSL
7440-38-2	Arsenic	1.2	U		P	
7440-39-3	Barium	4.2	~~B~~	J	P	
7440-41-7	Beryllium	0.05 ~~0.58~~	~~B~~	U	P	MBL
7440-43-9	Cadmium	0.58	U		P	
7440-70-2	Calcium	192 ~~583~~	~~B~~	U	P	MBL
7440-47-3	Chromium	0.71 ~~1.2~~	~~B~~	U	P	MBL
7440-48-4	Cobalt	0.58	U		P	
7440-50-8	Copper	0.34 ~~0.58~~	~~B~~	U	P	MBL
7439-89-6	Iron	98.9		~~J~~	P	
7439-92-1	Lead	1.8		~~N~~ J+	P	MSL
7439-95-4	Magnesium	33.0 ~~583~~	~~B~~	~~E~~ U	P	MBL
7439-96-5	Manganese	2.0			P	
7439-97-6	Mercury	0.039	U		CV	
7440-02-0	Nickel	0.18 ~~0.58~~	~~B~~	U	P	MBL
7440-09-7	Potassium	583	U		P	
7782-49-2	Selenium	0.58	U		P	
7440-22-4	Silver	0.04 ~~0.58~~	~~B~~	U	P	MBL
7440-23-5	Sodium	67.6 ~~583~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	0.57	~~B~~	J	P	
7440-66-6	Zinc	2.2	~~B~~	J	P	

sml 5/27/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS73-0-1
1005133-01 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.80**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.09	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**3.80**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SB74-4-5

1005133-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	9.50		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	1.09	J	2.17	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	8.50		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	Reported:
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS75-0-1

1005133-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**10.3**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.03**	J	2.36	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**9.43**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SB75-3.5-4.5

1005133-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	15.4	0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	3.84	2.35	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	12.1	0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS63-0-1

1005133-05 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.90**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.13	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**2.90**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SB63-5.5-6.5
1005133-06 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	15.7		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	2.25	J	2.40	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	13.8		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS61-0-1

1005133-07 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.60**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**0.880**	J	2.18	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**2.79**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS61D-0-1
1005133-08 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.60**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.15	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**2.60**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SB61-6-7

1005133-09 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**13.6**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.32	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**13.6**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SB61D-6-7
1005133-10 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**11.5**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**0.934**	J	2.31	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**10.7**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS67-0-1

1005133-11 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**8.40**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	4.46	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**8.40**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS72-0-1

1005133-12 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.60**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.09	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**3.60**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SB72-2-3

1005133-13 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**13.0**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**2.22**	J	2.29	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**11.1**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS88-0-1

1005133-14 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**16.8**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.19	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**16.8**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SB88-2.5-3.5

1005133-15 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**23.6**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.98**	J	2.75	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**22.2**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS76-0-1

1005133-16 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.50**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.05	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**3.50**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SB76-6-7

1005133-17 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**32.3**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.88**	J	2.40	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**30.7**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS87-0-1

1005133-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	**12.4**	0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**4.90**	2.52	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**8.51**	0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SB87-3-4

1005133-19 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**28.2**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.72	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**28.2**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 14:48

SS68-0-1

1005133-20 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**0.71**		0.50	mg/kg	1	0060154	06/11/2010 12:23	06/11/2010 14:37	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.36	mg/kg dry	1	0052524	05/25/2010 09:25	06/09/2010 14:42	EPA 7196A
Trivalent Chromium	**0.710**		0.500	mg/kg	1	[CALC]	06/11/2010 12:23	06/11/2010 14:37	Calc

Analyte	Affected Samples
Antimony	BBG-SS75-0-1-10B, BBG-SB76-6-7-10B
Beryllium	BBG-SS73-0-1-10B, BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SS63-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61-6-7-10B, BBG-SB61D-6-7-10B, BBG-SS67-0-1-10B, BBG-SS72-0-1-10B, BBG-SB72-2-3-10B, BBG-SS88-0-1-10B, BBG-SB88-2.5-3.5-10B, BBG-SS76-0-1-10B, BBG-SB76-6-7-10B, BBG-SS87-0-1-10B, BBG-SB87-3-4-10B, BBG-SS68-0-1-10B
Calcium	BBG-SS73-0-1-10B, BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61-6-7-10B, BBG-SB61D-6-7-10B, BBG-SB88-2.5-3.5-10B, BBG-SS68-0-1-10B
Cobalt	BBG-SS73-0-1-10B, BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61D-6-7-10B, BBG-SS67-0-1-10B, BBG-SS72-0-1-10B
Copper	BBG-SS87-0-1-10B, BBG-SS68-0-1-10B
Chromium	BBG-SS68-0-1-10B
Magnesium	BBG-SS73-0-1-10B, BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SS63-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61-6-7-10B, BBG-SB61D-6-7-10B, BBG-SS72-0-1-10B, BBG-SB72-2-3-10B, BBG-SS88-0-1-10B, BBG-SB88-2.5-3.5-10B, BBG-SS76-0-1-10B, BBG-SS87-0-1-10B, BBG-SS68-0-1-10B
Nickel	BBG-SS68-0-1-10B
Potassium	BBG-SB74-4-5-10B, BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SS63-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS67-0-1-10B, BBG-SB72-2-3-10B, BBG-SS88-0-1-10B, BBG-SB88-2.5-3.5-10B, BBG-SS87-0-1-10B
Silver	BBG-SB61-6-7-10B, BBG-SS67-0-1-10B, BBG-SS68-0-1-10B
Sodium	BBG-SS73-0-1-10B, BBG-SS75-0-1-10B, BBG-SB75-3.5-4.5-10B, BBG-SS63-0-1-10B, BBG-SB63-5.5-6.5-10B, BBG-SS61-0-1-10B, BBG-SS61D-0-1-10B, BBG-SB61-6-7-10B, BBG-SB61D-6-7-10B, BBG-SS72-0-1-10B, BBG-SB72-2-3-10B, BBG-SS88-0-1-10B, BBG-SB88-2.5-3.5-10B, BBG-SS76-0-1-10B, BBG-SB76-6-7-10B, BBG-SS87-0-1-10B, BBG-SB87-3-4-10B, BBG-SS68-0-1-10B

7.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

Positive results and RLs reported for antimony for the soil samples should be considered biased low quantitative estimates, and may be higher than reported. The associated matrix spike recoveries were below the acceptance limits for this analyte. The low recovery indicates the presence of interferences for samples of similar matrix. Positive results have been marked with "J" qualifiers to indicate that they are biased low quantitative estimates. RLs are marked "UJ".

The positive results reported for lead for all samples should be considered biased high quantitative estimates and may be lower than reported. The associated matrix spike recovery was above the acceptance limit for this analyte. The high recovery indicates the presence of interferences for lead for samples of similar matrix. The positive results for the analyte have been marked with "J+" qualifiers to indicate that they are biased high quantitative estimates.

8.0 *LABORATORY DUPLICATE RESULTS*

All criteria were met. No qualifiers were applied.

9.0 *ICP SERIAL DILUTION RESULTS*

Positive magnesium results reported for the samples, not previously qualified, are quantitative estimates. The ICP serial precision criterion was exceeded for this analyte. The lack of precision may be due to interferences in samples of similar matrix. The positive magnesium results have been marked with "J" qualifiers to indicate that they are quantitative estimates.

10.0 *FIELD DUPLICATE RESULTS*

Duplicate samples BBG-SS61-0-1-10B and BBG-SS61D-0-1-10B, and BBG-SB61-6-7-10B and BBG-SB61D-6-7-10B were submitted to the laboratory evaluate sampling and analytical precision for those analytes determined to be present. Results for these duplicate samples are presented in Tables 2 and 3. There are no USEPA-established acceptance criteria for field

duplicate samples. EDQ uses internal an acceptance criterion of 40 percent for values greater than five times the (RL) (or ± twice the RL for results less than five times the RL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005134
Fraction: Inorganic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. Four field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for metals and hexavalent chromium. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 2004 and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

These documents specify procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/29/2010
Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

The chain of custody (COC) documentation was complete.

3.0 HOLDING TIMES

All criteria were met. No qualifiers were applied.

4.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

5.0 ICP INTERFERENCE CHECK SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

All criteria were met. No qualifiers were applied.

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

All criteria were met. No qualifiers were applied.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples BBG-SB02-5-6-10B and BBG-SB02D-5-6-10B, BBG-SB32-2.5-3.5-10B and BBG-SB32D-2.5-3.5-10B, BBG-SS02-0-1-10B and BBG-SS02D-0-1-10B, and BBG-SS32-0-1-10B and BBG-SS32D-0-1-10B were submitted to the laboratory evaluate sampling and analytical precision for those analytes determined to be present. Results for these duplicate samples are presented in Tables 2 through 5. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal an acceptance criterion of 40 percent for values greater than five times the (RL) (or ± twice the RL for results less than five times the RL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Metals (Except Mercury)	Method 6010B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Mercury	Method 7471A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Hexavalent Chromium	Method 7196A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS02-0-1-10B	1005134	1005134-01	5/14/2010	Soil	X	X	X			X
BBG-SS02D-0-1-10B	1005134	1005134-02	5/14/2010	Soil	X	X	X			X
BBG-SB02-5-6-10B	1005134	1005134-03	5/14/2010	Soil	X	X	X			X
BBG-SB02D-5-6-10B	1005134	1005134-04	5/14/2010	Soil	X	X	X			X
BBG-SB05-7-8-10B	1005134	1005134-05	5/14/2010	Soil	X	X	X			X
BBG-SS33-0-1-10B	1005134	1005134-06	5/17/2010	Soil	X	X	X			X
BBG-SS33-0-1-10B	1005134	1005134-06RE1	5/17/2010	Soil	X					
BBG-SB33-4-5-10B	1005134	1005134-07	5/17/2010	Soil	X	X	X			X
BBG-SB33-4-5-10B	1005134	1005134-07RE1	5/17/2010	Soil	X					
BBG-SB31-5-6-10B	1005134	1005134-08	5/17/2010	Soil	X	X	X			X
BBG-SB31-5-6-10B	1005134	1005134-08RE1	5/17/2010	Soil	X					
BBG-SS31-0-1-10B	1005134	1005134-09	5/17/2010	Soil	X	X	X			X
BBG-SS31-0-1-10B	1005134	1005134-09RE1	5/17/2010	Soil	X					
BBG-SS32-0-1-10B	1005134	1005134-10	5/18/2010	Soil	X	X	X			X
BBG-SS32-0-1-10B	1005134	1005134-10RE1	5/18/2010	Soil	X					
BBG-SS32D-0-1-10B	1005134	1005134-11	5/18/2010	Soil	X	X	X			X
BBG-SS32D-0-1-10B	1005134	1005134-11RE1	5/18/2010	Soil	X					
BBG-SB32-2.5-3.5-10B	1005134	1005134-12	5/18/2010	Soil	X	X	X			X
BBG-SB32-2.5-3.5-10B	1005134	1005134-12RE1	5/18/2010	Soil	X					
BBG-SB32D-2.5-3.5-10B	1005134	1005134-13	5/18/2010	Soil	X	X	X			X
BBG-SB32D-2.5-3.5-10B	1005134	1005134-13RE1	5/18/2010	Soil	X					
BBG-SB50-1-2-10B	1005134	1005134-14	5/18/2010	Soil	X	X	X			X
BBG-SB50-1-2-10B	1005134	1005134-14RE1	5/18/2010	Soil	X					
BBG-SS12-0-1-10B	1005134	1005134-15	5/19/2010	Soil	X	X	X			X
BBG-SS12-0-1-10B	1005134	1005134-15RE1	5/19/2010	Soil	X					
BBG-SB12-2-3-10B	1005134	1005134-16	5/19/2010	Soil	X	X	X			X
BBG-SB12-2-3-10B	1005134	1005134-16RE1	5/19/2010	Soil	X					
BBG-SS44-0-1-10B	1005134	1005134-17	5/20/2010	Soil	X	X	X			X

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS44-0-1-10B	1005134	1005134-17RE1	5/20/2010	Soil	X					
BBG-SB44-5-6-10B	1005134	1005134-18	5/20/2010	Soil	X	X	X			X
BBG-SB44-5-6-10B	1005134	1005134-18RE1	5/20/2010	Soil	X					
BBG-SS43-0-1-10B	1005134	1005134-19	5/20/2010	Soil	X	X	X			X
BBG-SB43-3-4-10B	1005134	1005134-20	5/20/2010	Soil	X	X	X			X

Table 2 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SB02-5-6 and SB02D-5-6

Analyte	Sample Result (mg/Kg)		Field Duplicate Result (mg/Kg)	RPD	ACTION
	SB02-5-6		SB02D-5-6		
Chromium	18		18.9	5	
Hexavalent Chromium	2.2	J	3.13	35	

Table 3 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SB32-2.5-3.5 and SB32D-2.5-3.5

Analyte	Sample Result (mg/Kg)	Field Duplicate Result (mg/Kg)		RPD	ACTION
	SB32-2.5-3.5	SB32D-2.5-3.5			
Chromium	13.9	15.3		10	
Hexavalent Chromium	ND	1.24	J	NC	

Table 4 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SS02-0-1 and SS02D-0-1

Analyte	Sample Result (mg/Kg)		Field Duplicate Result (mg/Kg)		RPD	ACTION
	SS02-0-1		SS02D-0-1			
Chromium	14.9		13.6		9	
Hexavalent Chromium	1.86	J	1.35	J	32	

Table 5 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SS32-0-1 and SS32D-0-1

Analyte	Sample Result (mg/Kg)	Field Duplicate Result (mg/Kg)	RPD	ACTION
	SS32-0-1	SS32D-0-1		
Chromium	2.4	2	18	

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SS02-0-1

1005134-01 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
***** DEFAULT GENERAL METHOD *****									
% Solids	**84**		0	% by Weight	1	0051921	05/20/2010 16:05	05/24/2010 15:46	% Calculation
Metals									
Chromium	**14.9**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.86**	J	2.38	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**13.3**		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SS02D-0-1

1005134-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	88		0	% by Weight	1	0051921	05/20/2010 16:05	05/24/2010 15:46	% Calculation
Metals									
Chromium	13.6		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	1.35	J	2.28	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
valent Chromium	12.4		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB02-5-6

1005134-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
***** DEFAULT GENERAL METHOD *****									
% Solids	**80**		0	% by Weight	1	0051921	05/20/2010 16:05	05/24/2010 15:46	% Calculation
Metals									
Chromium	**18.0**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**2.20**	J	2.51	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
alent Chromium	**16.2**		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB02D-5-6

1005134-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
*** DEFAULT GENERAL METHOD ***								
% Solids	78	0	% by Weight	1	0051921	05/20/2010 16:05	05/24/2010 15:46	% Calculation
Metals								
Chromium	**18.9**	0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**3.13**	2.56	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
valent Chromium	**16.5**	0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

8/8/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB05-7-8
1005134-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
***** DEFAULT GENERAL METHOD *****								
% Solids	**72**	0	% by Weight	1	0051921	05/20/2010 16:05	05/24/2010 15:46	% Calculation
Metals								
Chromium	**30.5**	0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**5.38**	2.77	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**26.6**	0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

8/18/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SS33-0-1
1005134-06 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	**81**		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	**0.82**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**2.40**	J	2.47	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
valent Chromium	ND		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB33-4-5
1005134-07 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	90		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	1.60		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.23	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	1.60		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

8/8/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB31-5-6
1005134-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
*** DEFAULT GENERAL METHOD ***								
% Solids	**83**	0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals								
Chromium	**10.4**	0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**2.65**	2.41	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**8.21**	0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SS31-0-1

1005134-09 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	89		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	3.90		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.25	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	3.90		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

7/8/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SS32-0-1

1005134-10 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	97		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	2.40		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.05	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
'valent Chromium	2.40		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

SMM 8/18/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SS32D-0-1
1005134-11 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	**97**		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	**2.00**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.06	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**2.00**		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

8/8/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB32-2.5-3.5
1005134-12 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	93		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	13.9		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.16	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
'valent Chromium	13.9		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB32D-2.5-3.5
1005134-13 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	**91**		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	**15.3**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.24**	J	2.19	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**14.2**		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

8/10/2010

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB50-1-2

1005134-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
*** DEFAULT GENERAL METHOD ***								
% Solids	**84**	0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals								
Chromium	**5.80**	0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**2.60**	2.37	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**3.61**	0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

8/18/2010

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SS12-0-1

1005134-15 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	**92**		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	**15.8**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**2.04**	J	2.17	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**13.9**		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB12-2-3

1005134-16 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** **DEFAULT GENERAL METHOD** ***									
% Solids	**89**		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	**8.80**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.24	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**8.80**		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

8/18/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SS44-0-1

1005134-17 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	93		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	**3.10**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.14	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**3.10**		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

SMK 8/9/2010

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB44-5-6

1005134-18 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
*** **DEFAULT GENERAL METHOD** ***									
% Solids	**85**		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	**20.0**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.34	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
valent Chromium	**20.0**		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

SMM 8/18/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SS43-0-1

1005134-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
*** DEFAULT GENERAL METHOD ***								
% Solids	97	0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals								
Chromium	**0.57**	0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	ND U	2.06	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
ivalent Chromium	**0.570**	0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

7/18/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/08/2010 13:29

SB43-3-4

1005134-20 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
*** DEFAULT GENERAL METHOD ***									
% Solids	**93**		0	% by Weight	1	0052523	05/25/2010 09:16	05/26/2010 09:32	% Calculation
Metals									
Chromium	**2.00**		0.50	mg/kg	1	0060154	06/01/2010 10:23	06/01/2010 11:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.16	mg/kg dry	1	0052526	05/25/2010 09:33	06/10/2010 12:04	EPA 7196A
valent Chromium	**2.00**		0.500	mg/kg	1	[CALC]	06/01/2010 10:23	06/10/2010 12:04	EPA 7196A

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005157
Fraction: Inorganic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. Three field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for metals and hexavalent chromium. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 2004 and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

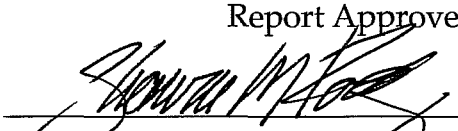
These documents specify procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawne M. Rodgers
President

8/29/2012

Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody (COC) documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following positive results are considered to be nondetect due to the presence of these analytes in the associated continuing calibration blanks and/or preparation blanks presented in Table 2. The analytes were detected in the associated continuing calibration blanks and/or preparation blanks at levels less than the reporting limit (RL), indicating the possibility of a false positive at this level. The affected results for these samples are less than the RL. Replacing the sample result with the RL and marking it "U" has indicated this.

Analyte	Affected Samples
Antimony	BBG-SS66-0-1-10B
Beryllium	BBG-SB73-9-10-10B
Calcium	BBG-SB73-9-10-10B, BBG-SS90-0-1-10B, BBG-SB90-2-3-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SS69-0-1-10B, BBG-SB69-2-3-10B, BBG-SB64-1-2-10B, BBG-SB65-1-2-10B, BBG-SS64-0-1-10B, BBG-SS65-0-1-10B
Chromium	BBG-SS70-0-1-10B, BBG-SS65-0-1-10B
Copper	BBG-SS90-0-1-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SS69-0-1-10B, BBG-SS65-0-1-10B
Magnesium	BBG-SB73-9-10-10B, BBG-SS51D-0-1-10B, BBG-SB90-2-3-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SS69-0-1-10B, BBG-SB69-2-3-10B, BBG-SB64-1-2-10B, BBG-SB65-1-2-10B, BBG-SS64-0-1-10B, BBG-SS65-0-1-10B, BBG-SS82-0-1-10B, BBG-SS82D-0-1-10B, BBG-SB82-2-3-10B, BBG-SB82D-2-3-10B
Manganese	BBG-SB65-1-2-10B, BBG-SS65-0-1-10B
Nickel	BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SB65-1-2-10B, BBG-SS65-0-1-10B
Potassium	BBG-SB73-9-10-10B, BBG-SS51-0-1-10B, BBG-SB69-2-3-10B, BBG-SS66-0-1-10B, BBG-SB82-2-3-10B
Selenium	BBG-SS51-0-1-10B, BBG-SS51D-0-1-10B, BBG-SB90-2-3-10B, BBG-SS69-0-1-10B
Silver	BBG-SS51-0-1-10B, BBG-SS51D-0-1-10B, BBG-SS90-0-1-10B, BBG-SB90-2-3-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SS69-0-1-10B, BBG-SB69-2-3-10B, BBG-SB65-1-2-10B, BBG-SS64-0-1-10B, BBG-SS66-0-1-10B, BBG-SS65-0-1-10B, BBG-SS82-0-1-10B, BBG-SS82D-0-1-10B, BBG-SB82D-2-3-10B
Sodium	BBG-SB73-9-10-10B, BBG-SS51D-0-1-10B, BBG-SS90-0-1-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SB69-2-3-10B, BBG-SB64-1-2-10B, BBG-SB65-1-2-10B, BBG-SS64-0-1-10B, BBG-SS65-0-1-10B, BBG-SS82-0-1-10B, BBG-SS82D-0-1-10B, BBG-SB82-2-3-10B, BBG-SB82D-2-3-10B

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

Positive results and RLs reported for antimony and selenium for the soil samples should be considered biased low quantitative estimates, and may be higher than reported. The associated matrix spike recoveries were below the acceptance limits for these analytes. The low recoveries indicate the presence of interferences for samples of similar matrix. Positive

results have been marked with "J" qualifiers to indicate that they are biased low quantitative estimates. RLs are marked "UJ".

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

All criteria were met. No qualifiers were applied.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples BBG-SS51-0-1-10B and BBG-SS51D-0-1-10B, BBG-SS82-0-1-10B and BBG-SS82D-0-1-10B, and BBG-SB82-2-3-10B and BBG-SB82D-2-3-10B were submitted to the laboratory evaluate sampling and analytical precision for those analytes determined to be present. Results for these duplicate samples are presented in Tables 3 through 5. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal an acceptance criterion of 40 percent for values greater than five times the (RL) (or $\pm$ twice the RL for results less than five times the RL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 *QUANTITATION/REPORTING LIMITS*

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Metals (Except Mercury)	Method 6010B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Mercury	Method 7471A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Hexavalent Chromium	Method 7196A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SB73-9-10-10B	1005157	1005157-01	5/17/2010	Soil	X	X	X		X	X
BBG-SS51-0-1-10B	1005157	1005157-02	5/19/2010	Soil	X	X	X		X	X
BBG-SS51D-0-1-10B	1005157	1005157-03	5/19/2010	Soil	X	X	X		X	X
BBG-SS51D-0-1-10B	1005157	1005157-03RE1	5/19/2010	Soil		X				
BBG-SS90-0-1-10B	1005157	1005157-04	5/19/2010	Soil	X	X	X		X	X
BBG-SS90-0-1-10B	1005157	1005157-04RE1	5/19/2010	Soil		X				
BBG-SB90-2-3-10B	1005157	1005157-05	5/19/2010	Soil	X	X	X		X	X
BBG-SS70-0-1-10B	1005157	1005157-06	5/20/2010	Soil	X	X	X		X	X
BBG-SB70-1-2-10B	1005157	1005157-07	5/20/2010	Soil	X	X	X		X	X
BBG-SS69-0-1-10B	1005157	1005157-08	5/20/2010	Soil	X	X	X		X	X
BBG-SB69-2-3-10B	1005157	1005157-09	5/20/2010	Soil	X	X	X		X	X
BBG-SB64-1-2-10B	1005157	1005157-10	5/20/2010	Soil	X	X	X		X	X
BBG-SB65-1-2-10B	1005157	1005157-11	5/20/2010	Soil	X	X	X		X	X
BBG-SS64-0-1-10B	1005157	1005157-12	5/20/2010	Soil	X	X	X		X	X
BBG-SS66-0-1-10B	1005157	1005157-13	5/20/2010	Soil	X	X	X		X	X
BBG-SS66-0-1-10B	1005157	1005157-13RE1	5/20/2010	Soil		X				
BBG-SS65-0-1-10B	1005157	1005157-14	5/20/2010	Soil	X	X	X		X	X
BBG-SS82-0-1-10B	1005157	1005157-15	5/21/2010	Soil	X	X	X		X	X
BBG-SS82D-0-1-10B	1005157	1005157-16	5/21/2010	Soil	X	X	X		X	X
BBG-SB82-2-3-10B	1005157	1005157-17	5/21/2010	Soil	X	X	X		X	X
BBG-SB82D-2-3-10B	1005157	1005157-18	5/21/2010	Soil	X	X	X		X	X
BBG-SB82D-2-3-10B	1005157	1005157-18RE1	5/21/2010	Soil		X				

Table 3 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SS51-0-1 and SS51D-0-1

Analyte	Sample Result (mg/Kg)		Field Duplicate Result (mg/Kg)		RPD	ACTION
	SS51-0-1		SS51D-0-1			
Aluminum	4520		2890		44	
Antimony	2.1	J-	2.1	J-	0	
Arsenic	1.4		0.9	J	43	
Barium	13.3	J	8.7	J	42	
Beryllium	0.13	J	0.09	J	36	
Cadmium	0.51	J	0.21	J	83	
Calcium	20900		3060		149	
Chromium	8		4.9		48	
Cobalt	0.47	J	ND		NC	
Copper	41		28.8		35	
Iron	5570		3000		60	
Lead	48.3		54.6		12	
Magnesium	829		ND	J	NC	
Manganese	35.3		8.2		125	
Mercury	0.13		0.21		47	
Nickel	3.1		1.5		70	
Potassium	ND	J	60.6	J	NC	
Selenium	ND	J	ND	J	NC	
Silver	ND	J	ND	J	NC	
Sodium	688		ND	J	NC	
Vanadium	10.6		6.3		51	
Zinc	59.7		33.4		56	

Table 4 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SS82-0-1 and SS82D-0-1

Analyte	Sample Result (mg/Kg)		Field Duplicate Result (mg/Kg)		RPD	ACTION
	SS82-0-1		SS82D-0-1			
Aluminum	1650		2170		27	
Antimony	1.1	J-	1.2	J-	9	
Barium	6.4	J	7	J	9	
Cadmium	0.08	J	0.1	J	22	
Calcium	655		675		3	
Chromium	2.3		2.6		12	
Copper	1.1		1.6		37	
Iron	1040		1280		21	
Lead	5.2		5		4	
Manganese	11.6		14.2		20	
Mercury	0.013	J	0.015	J	14	
Nickel	0.8		0.98		20	
Selenium	0.27	J	ND		NC	
Vanadium	3.1		3.6		15	
Zinc	3.6		4.6		24	

Table 5 Field Duplicate Sample Results for Inorganic Analyses
Soil Duplicate Samples SB82-2-3 and SB82D-2-3

Analyte	Sample Result (mg/Kg)		Field Duplicate Result (mg/Kg)		RPD	ACTION
	SB82-2-3		SB82D-2-3			
Aluminum	15200		9620		45	
Antimony	1.4	J-	1.3	J-	7	
Arsenic	1.7		0.88	J	64	
Barium	25.4		16.7	J	41	
Beryllium	0.08	J	0.08	J	0	
Cadmium	0.31	J	0.24	J	25	
Calcium	773		ND		NC	
Chromium	14.8		9.4		45	
Cobalt	0.44	J	0.32	J	32	
Copper	2.7		2.6		4	
Iron	6460		4290		40	
Lead	4.6		3.7		22	
Manganese	7.1		4.6		43	
Mercury	0.025	J	0.032	J	25	
Nickel	3.7		2.3		47	
Potassium	ND		23.8	J	NC	
Selenium	ND		0.45	J	NC	
Vanadium	16.8		10.8		43	
Zinc	4.8		12.3		88	
Hexavalent Chromium	2.27	J	5.1		77	

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB73-9-10

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-01

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 79.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8180			P	
7440-36-0	Antimony	1.3		NJ-	P	MSL
7440-38-2	Arsenic	0.66	B	J	P	
7440-39-3	Barium	14.8	B	J	P	
7440-41-7	Beryllium	0.63 ~~0.13~~	B	U	P	MBL
7440-43-9	Cadmium	0.24	B	J	P	
7440-70-2	Calcium	626 ~~98.8~~	B	U	P	MBL
7440-47-3	Chromium	12.6			P	
7440-48-4	Cobalt	0.63	U		P	
7440-50-8	Copper	2.5			P	
7439-89-6	Iron	4030		*	P	
7439-92-1	Lead	8.8			P	
7439-95-4	Magnesium	626 ~~326~~	B	E U	P	MBL
7439-96-5	Manganese	6.1			P	
7439-97-6	Mercury	0.041	U		CV	
7440-02-0	Nickel	1.1			P	
7440-09-7	Potassium	624 ~~327~~	B	U	P	MBL
7782-49-2	Selenium	0.63	U	NJ	P	MSL
7440-22-4	Silver	0.63	U		P	
7440-23-5	Sodium	626 ~~134~~	B	U	P	MBL
7440-28-0	Thallium	1.3	U		P	
7440-62-2	Vanadium	8.5		*	P	
7440-66-6	Zinc	3.8			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 8/19/2010

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS51-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-02

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 71.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4520			P	
7440-36-0	Antimony	2.1		N J	P	MSL
7440-38-2	Arsenic	1.4			P	
7440-39-3	Barium	13.3	B	J	P	
7440-41-7	Beryllium	0.13	B	J	P	
7440-43-9	Cadmium	0.51	B	J	P	
7440-70-2	Calcium	20900			P	
7440-47-3	Chromium	8.0			P	
7440-48-4	Cobalt	0.47	B	J	P	
7440-50-8	Copper	41.0			P	
7439-89-6	Iron	5570			P	
7439-92-1	Lead	48.3			P	
7439-95-4	Magnesium	829			P	
7439-96-5	Manganese	35.3			P	
7439-97-6	Mercury	0.13			CV	
7440-02-0	Nickel	3.1			P	
7440-09-7	Potassium	670 284	B	U	P	MBL
7782-49-2	Selenium	0.67 0.48	B	N U	P	MB
7440-22-4	Silver	0.67 0.23	B	U	P	MBL
7440-23-5	Sodium	688			P	
7440-28-0	Thallium	1.3	U		P	
7440-62-2	Vanadium	10.6			P	
7440-66-6	Zinc	59.7			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS51D-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-03

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 77.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2890			P	
7440-36-0	Antimony	2.1		NJ-	P	MSL
7440-38-2	Arsenic	0.90	B	J	P	
7440-39-3	Barium	8.7	B		P	
7440-41-7	Beryllium	0.09	B		P	
7440-43-9	Cadmium	0.21	B		P	
7440-70-2	Calcium	3060			P	
7440-47-3	Chromium	4.9			P	
7440-48-4	Cobalt	0.59	U		P	
7440-50-8	Copper	28.8			P	
7439-89-6	Iron	3000			P	
7439-92-1	Lead	54.6			P	
7439-95-4	Magnesium	592 310	B	E U	P	MBL
7439-96-5	Manganese	8.2			P	
7439-97-6	Mercury	0.21			CV	
7440-02-0	Nickel	1.5			P	
7440-09-7	Potassium	60.6	B	J	P	
7782-49-2	Selenium	0.59 0.28	B	N U	P	MBL
7440-22-4	Silver	0.59 0.17	B	U	P	MBL
7440-23-5	Sodium	592 412	B	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	6.3			P	
7440-66-6	Zinc	33.4			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMC 6/9/2010

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS90-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-04

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	393			P	
7440-36-0	Antimony	1.2		NJ-	P	MSL
7440-38-2	Arsenic	1.0	U		P	
7440-39-3	Barium	2.5	B	J	P	
7440-41-7	Beryllium	0.51	U		P	
7440-43-9	Cadmium	0.51	U		P	
7440-70-2	Calcium	515 208	B	U	P	MBL
7440-47-3	Chromium	1.2			P	
7440-48-4	Cobalt	0.51	U		P	
7440-50-8	Copper	0.51 0.51	B	U	P	MBL
7439-89-6	Iron	172		*	P	
7439-92-1	Lead	1.5			P	
7439-95-4	Magnesium	515 33.3	B	E U	P	MBL
7439-96-5	Manganese	2.0			P	
7439-97-6	Mercury	0.015	B	J	CV	
7440-02-0	Nickel	0.24	B	J	P	
7440-09-7	Potassium	515	U		P	
7782-49-2	Selenium	0.51	U	NJ	P	MSL
7440-22-4	Silver	0.51 0.07	B	U	P	MBL
7440-23-5	Sodium	515 52.4	B	U	P	MBL
7440-28-0	Thallium	1.0	U		P	
7440-62-2	Vanadium	0.97	B	*J	P	
7440-66-6	Zinc	0.98	B	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts: 0

Comments: SM 6/29/10

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB90-2-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-05

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2510			P	
7440-36-0	Antimony	1.5		N J-	P	MSC
7440-38-2	Arsenic	1.2	U		P	
7440-39-3	Barium	4.4	B	J	P	
7440-41-7	Beryllium	0.59	U		P	
7440-43-9	Cadmium	0.59	U		P	
7440-70-2	Calcium	591 388	B	U	P	MB
7440-47-3	Chromium	3.6			P	
7440-48-4	Cobalt	0.59	U		P	
7440-50-8	Copper	0.68			P	
7439-89-6	Iron	416		*	P	
7439-92-1	Lead	2.3			P	
7439-95-4	Magnesium	591 102	B	E U	P	MB
7439-96-5	Manganese	1.5			P	
7439-97-6	Mercury	0.014	B	J	CV	
7440-02-0	Nickel	0.76			P	
7440-09-7	Potassium	591	U		P	
7782-49-2	Selenium	0.59 0.47	B	N U	P	MB
7440-22-4	Silver	0.57 0.08	B	U	P	MB
7440-23-5	Sodium	52.8	B	U	P	MB
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	1.9	B	* J	P	
7440-66-6	Zinc	1.3	B	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 8/9/2010

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS70-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-06

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 97.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	72.9			P	
7440-36-0	Antimony	1.2		N J-	P	MSL
7440-38-2	Arsenic	0.95	U		P	
7440-39-3	Barium	0.79	B	J	P	
7440-41-7	Beryllium	0.06	B	J	P	
7440-43-9	Cadmium	0.47	U		P	
7440-70-2	Calcium	474 ~~61.3~~	~~B~~	U	P	MBL
7440-47-3	Chromium 0.95	0.47 ~~0.70~~	~~B~~	U	P	MBL
7440-48-4	Cobalt	0.47	U		P	
7440-50-8	Copper	0.47 ~~0.18~~	~~B~~	U	P	MBL
7439-89-6	Iron	42.8			P	
7439-92-1	Lead	1.5			P	
7439-95-4	Magnesium	474 ~~7.3~~	~~B~~	E U	P	MBL
7439-96-5	Manganese	1.8			P	
7439-97-6	Mercury	0.011	B	J	CV	
7440-02-0	Nickel	0.47 ~~0.14~~	~~B~~	U	P	MBL
7440-09-7	Potassium	474	U		P	
7782-49-2	Selenium	0.47	U	N J	P	MSL
7440-22-4	Silver	0.47 ~~0.03~~	~~B~~	U	P	MBL
7440-23-5	Sodium	474 ~~37.6~~	~~B~~	U	P	MBL
7440-28-0	Thallium	0.95	U		P	
7440-62-2	Vanadium	0.34	B	J	P	
7440-66-6	Zinc	0.62	B	J	P	

SMM 6/30/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB70-1-2

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-07

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2350			P	
7440-36-0	Antimony	1.4		~~N~~ J-	P	MSL
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	3.1	~~B~~	J	P	
7440-41-7	Beryllium	0.05	~~B~~	J	P	
7440-43-9	Cadmium	0.54	U		P	
7440-70-2	Calcium	540 ~~87.2~~	~~B~~	U	P	MBL
7440-47-3	Chromium	1.7			P	
7440-48-4	Cobalt	0.54	U		P	
7440-50-8	Copper	0.54 ~~0.21~~	~~B~~	U	P	MBL
7439-89-6	Iron	217			P	
7439-92-1	Lead	2.9			P	
7439-95-4	Magnesium	540 ~~61.2~~	~~B~~	E U	P	MBL
7439-96-5	Manganese	1.3			P	
7439-97-6	Mercury	0.024	~~B~~	J	CV	
7440-02-0	Nickel	0.54 ~~0.43~~	~~B~~	U	P	MBL
7440-09-7	Potassium	540	U		P	
7782-49-2	Selenium	0.54	U	~~N~~ U	P	MSL
7440-22-4	Silver	0.54 ~~0.06~~	~~B~~	U	P	MBL
7440-23-5	Sodium	540 ~~80.1~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	0.94	~~B~~	~~J~~ J	P	
7440-66-6	Zinc	1.1	~~B~~	J	P	

SMP 8/9/10P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS69-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-08

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 85.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1350			P	
7440-36-0	Antimony	1.3		N J	P	MSC
7440-38-2	Arsenic	1.2	U		P	
7440-39-3	Barium	2.9	B	J	P	
7440-41-7	Beryllium	0.58	U		P	
7440-43-9	Cadmium	0.58	U		P	
7440-70-2	Calcium	576 110	B	U	P	MBL
7440-47-3	Chromium	1.9			P	
7440-48-4	Cobalt	0.58	U		P	
7440-50-8	Copper	0.58 0.29	B	U	P	MBL
7439-89-6	Iron	1280		*	P	
7439-92-1	Lead	2.1			P	
7439-95-4	Magnesium	576 44.7	B	E U	P	MBL
7439-96-5	Manganese	1.9			P	
7439-97-6	Mercury	0.017	B	J	CV	
7440-02-0	Nickel	0.43	B	J	P	
7440-09-7	Potassium	576	U		P	
7782-49-2	Selenium	0.58 0.43	B	N U	P	MBL
7440-22-4	Silver	0.58 0.10	B	U	P	MBL
7440-23-5	Sodium	64.0	B	J	P	
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	2.4		*	P	
7440-66-6	Zinc	1.4	B	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 8/19/2010

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB69-2-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-09

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9890			P	
7440-36-0	Antimony	1.4		N J+	P	MSL
7440-38-2	Arsenic	1.9			P	
7440-39-3	Barium	8.5	~~B~~	J	P	
7440-41-7	Beryllium	0.05	~~B~~	J	P	
7440-43-9	Cadmium	0.36	~~B~~	J	P	
7440-70-2	Calcium	604 ~~171~~	~~B~~	U	P	MBC
7440-47-3	Chromium	11.2			P	
7440-48-4	Cobalt	0.60	U		P	
7440-50-8	Copper	0.68			P	
7439-89-6	Iron	8410		*	P	
7439-92-1	Lead	3.7			P	
7439-95-4	Magnesium	604 ~~300~~	~~B~~	E U	P	MBC
7439-96-5	Manganese	7.0			P	
7439-97-6	Mercury	0.016	~~B~~	J	CV	
7440-02-0	Nickel	3.4			P	
7440-09-7	Potassium	604 ~~64.1~~	~~B~~	U	P	MBC
7782-49-2	Selenium	1.0		N J-	P	MSL
7440-22-4	Silver	0.69 ~~0.07~~	~~B~~	U	P	MBC
7440-23-5	Sodium	604 ~~69.3~~	~~B~~	U	P	MBC
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	14.2		*	P	
7440-66-6	Zinc	5.2			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMT 8/9/10

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB64-1-2

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-10

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3870			P	
7440-36-0	Antimony	1.3		N J-	P	MSC
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	15.4	B	J	P	
7440-41-7	Beryllium	0.54	U		P	
7440-43-9	Cadmium	0.11	B	J	P	
7440-70-2	Calcium	544 ~~162~~	~~B~~	U	P	MBC
7440-47-3	Chromium	4.1			P	
7440-48-4	Cobalt	0.54	U		P	
7440-50-8	Copper	0.75			P	
7439-89-6	Iron	2700		*	P	
7439-92-1	Lead	3.3			P	
7439-95-4	Magnesium	544 ~~175~~	~~B~~	~~E~~ U	P	MBC
7439-96-5	Manganese	25.9			P	
7439-97-6	Mercury	0.016	B	J	CV	
7440-02-0	Nickel	1.2			P	
7440-09-7	Potassium	544	U		P	
7782-49-2	Selenium	0.54	U	N J	P	MSC
7440-22-4	Silver	0.54	U		P	
7440-23-5	Sodium	544 ~~68.0~~	~~B~~	U	P	MBC
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	5.6		*	P	
7440-66-6	Zinc	3.3			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMT 6/9/2010

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB65-1-2

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-11

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 80.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	3220			P	
7440-36-0	Antimony	1.5		N J-	P	MSC
7440-38-2	Arsenic	1.2	U		P	
7440-39-3	Barium	2.5	B	J	P	
7440-41-7	Beryllium	0.07	B	J	P	
7440-43-9	Cadmium	0.62	U		P	
7440-70-2	Calcium	618 ~~79.8~~	~~B~~	U	P	MBL
7440-47-3	Chromium	4.2			P	
7440-48-4	Cobalt	0.62	U		P	
7440-50-8	Copper	0.25	B	J	P	
7439-89-6	Iron	147		*	P	
7439-92-1	Lead	2.4			P	
7439-95-4	Magnesium	618 ~~53.7~~	~~B~~	E U	P	MBL
7439-96-5	Manganese	1.2 ~~0.94~~	~~B~~	U	P	MBL
7439-97-6	Mercury	0.025	B	J	CV	
7440-02-0	Nickel	0.62 ~~0.26~~	B	U	P	MBL
7440-09-7	Potassium	618	U		P	
7782-49-2	Selenium	0.43	B	N J-	P	MSC
7440-22-4	Silver	0.62 ~~0.09~~	~~B~~	U	P	MBL
7440-23-5	Sodium	618 ~~65.3~~	~~B~~	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	2.7		*	P	
7440-66-6	Zinc	0.88	B	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: SM 6/9/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS64-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-12

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 90.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5150			P
7440-36-0	Antimony	1.0		N J-	P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	17.4	B	J	P
7440-41-7	Beryllium	0.09	B		P
7440-43-9	Cadmium	0.14	B		P
7440-70-2	Calcium	505 ~~161~~	~~B~~	U	P
7440-47-3	Chromium	4.3			P
7440-48-4	Cobalt	0.51	U		P
7440-50-8	Copper	0.95			P
7439-89-6	Iron	2900			P
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium	505 ~~195~~	~~B~~	~~E~~ U	P
7439-96-5	Manganese	51.1			P
7439-97-6	Mercury	0.028	B	J	CV
7440-02-0	Nickel	1.4			P
7440-09-7	Potassium	505	U		P
7782-49-2	Selenium	0.27	B	N J-	P
7440-22-4	Silver	0.51 ~~0.04~~	~~B~~	U	P
7440-23-5	Sodium	505 ~~61.1~~	~~B~~	U	P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	5.4			P
7440-66-6	Zinc	3.9			P

MSL
MBL
MBL
MSL
MBL
MBL

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS66-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-13

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 49.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2240			P	
7440-36-0	Antimony	~~1.5~~ 1.9	~~B~~	~~N~~ U	P	MB
7440-38-2	Arsenic	0.84	~~B~~	J	P	
7440-39-3	Barium	3.5	~~B~~	J	P	
7440-41-7	Beryllium	0.95	U		P	
7440-43-9	Cadmium	0.15	~~B~~	J	P	
7440-70-2	Calcium	1780			P	
7440-47-3	Chromium	6.9			P	
7440-48-4	Cobalt	0.95	U		P	
7440-50-8	Copper	1.9			P	
7439-89-6	Iron	2320		*	P	
7439-92-1	Lead	4.3			P	
7439-95-4	Magnesium	1650		E	P	
7439-96-5	Manganese	9.8			P	
7439-97-6	Mercury	0.025	~~B~~	J	CV	
7440-02-0	Nickel	2.2			P	
7440-09-7	Potassium	~~613~~ 945	~~B~~	U	P	MB
7782-49-2	Selenium	0.56	~~B~~	~~N~~ J	P	MSL
7440-22-4	Silver	~~0.11~~ 0.95	~~B~~	U	P	MB
7440-23-5	Sodium	7730			P	
7440-28-0	Thallium	1.9	U		P	
7440-62-2	Vanadium	7.9		*	P	
7440-66-6	Zinc	8.0			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments: SML 8/29/10

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS65-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-14

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 85.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	490			P	
7440-36-0	Antimony	1.4		N J-	P	MSL
7440-38-2	Arsenic	1.1	U		P	
7440-39-3	Barium	0.90	B	J	P	
7440-41-7	Beryllium	0.07	B	J	P	
7440-43-9	Cadmium	0.54	U		P	
7440-70-2	Calcium	544 91.8	B	U	P	MBL
7440-47-3	Chromium	1.1 1.0	B	U	P	MBL
7440-48-4	Cobalt	0.54	U		P	
7440-50-8	Copper	0.54 0.32	B	U	P	MBL
7439-89-6	Iron	81.9		*	P	
7439-92-1	Lead	1.3			P	
7439-95-4	Magnesium	544 11.1	B	E U	P	MBL
7439-96-5	Manganese	1.1 0.72	B	U	P	MBL
7439-97-6	Mercury	0.011	B	J	CV	
7440-02-0	Nickel	0.54 0.23	B	U	P	MBL
7440-09-7	Potassium	544	U		P	
7782-49-2	Selenium	0.29	B	N J-	P	MSL
7440-22-4	Silver	0.54 0.05	B	U	P	MBL
7440-23-5	Sodium	544 57.1	B	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	0.66	B	* J	P	
7440-66-6	Zinc	1.1	B	J	P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMM 8/9/2010

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS82-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-15

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 97.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	1650			P	
7440-36-0	Antimony	1.1		N J-	P	MSL
7440-38-2	Arsenic	0.96	U		P	
7440-39-3	Barium	6.4	~~B~~	J	P	
7440-41-7	Beryllium	0.48	U		P	
7440-43-9	Cadmium	0.08	~~B~~	J	P	
7440-70-2	Calcium	655			P	
7440-47-3	Chromium	2.3			P	
7440-48-4	Cobalt	0.48	U		P	
7440-50-8	Copper	1.1			P	
7439-89-6	Iron	1040		*	P	
7439-92-1	Lead	5.2			P	
7439-95-4	Magnesium	481 114	~~B~~	E U	P	MBC
7439-96-5	Manganese	11.6			P	
7439-97-6	Mercury	0.013	~~B~~	J	CV	
7440-02-0	Nickel	0.80			P	
7440-09-7	Potassium	481	U		P	
7782-49-2	Selenium	0.27	~~B~~	N J-	P	MSL
7440-22-4	Silver	0.48 0.04	~~B~~	U	P	MBC
7440-23-5	Sodium	481 49.5	~~B~~	U	P	MBC
7440-28-0	Thallium	0.96	U		P	
7440-62-2	Vanadium	3.1		*	P	
7440-66-6	Zinc	3.6			P	

SWL 6/29/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS82D-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-16

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 97.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2170			P	
7440-36-0	Antimony	1.2		N J-	P	MSC
7440-38-2	Arsenic	1.0	U		P	
7440-39-3	Barium	7.0	B	J	P	
7440-41-7	Beryllium	0.51	U		P	
7440-43-9	Cadmium	0.10	B	J	P	
7440-70-2	Calcium	675			P	
7440-47-3	Chromium	2.6			P	
7440-48-4	Cobalt	0.51	U		P	
7440-50-8	Copper	1.6			P	
7439-89-6	Iron	1280		*	P	
7439-92-1	Lead	5.0			P	
7439-95-4	Magnesium	510 146	B	E U	P	MBL
7439-96-5	Manganese	14.2			P	
7439-97-6	Mercury	0.015	B	J	CV	
7440-02-0	Nickel	0.98			P	
7440-09-7	Potassium	510	U		P	
7782-49-2	Selenium	0.51	U	N J	P	MSC
7440-22-4	Silver	0.51 0.07	B	U	P	MBC
7440-23-5	Sodium	510 60.8	B	U	P	MBL
7440-28-0	Thallium	1.0	U		P	
7440-62-2	Vanadium	3.6		*	P	
7440-66-6	Zinc	4.6			P	

SMM 5/20/2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB82-2-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-17

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 85.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	15200			P	
7440-36-0	Antimony	1.4		N J-	P	MSL
7440-38-2	Arsenic	1.7			P	
7440-39-3	Barium	25.4			P	
7440-41-7	Beryllium	0.08	B	J	P	
7440-43-9	Cadmium	0.31	B	J	P	
7440-70-2	Calcium	773			P	
7440-47-3	Chromium	14.8			P	
7440-48-4	Cobalt	0.44	B	J	P	
7440-50-8	Copper	2.7			P	
7439-89-6	Iron	6460			P	
7439-92-1	Lead	4.6			P	
7439-95-4	Magnesium	578 304	B	E U	P	MBL
7439-96-5	Manganese	7.1			P	
7439-97-6	Mercury	0.025	B	J	CV	
7440-02-0	Nickel	3.7			P	
7440-09-7	Potassium	578 124	B	U	P	MBL
7782-49-2	Selenium	0.58	U	NJ	P	MSL
7440-22-4	Silver	0.58	U		P	
7440-23-5	Sodium	578 62.0	B	U	P	MBL
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	16.8			P	
7440-66-6	Zinc	4.8			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SMM 6/10/10

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB82D-2-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-18

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9620			P	
7440-36-0	Antimony	1.3		N J-	P	MSL
7440-38-2	Arsenic	0.88	B	J	P	
7440-39-3	Barium	16.7	B	J	P	
7440-41-7	Beryllium	0.08	B	J	P	
7440-43-9	Cadmium	0.24	B	J	P	
7440-70-2	Calcium	570 515	B	U	P	MBL
7440-47-3	Chromium	9.4			P	
7440-48-4	Cobalt	0.32	B	J	P	
7440-50-8	Copper	2.6			P	
7439-89-6	Iron	4290		*	P	
7439-92-1	Lead	3.7			P	
7439-95-4	Magnesium	570 197	B	E U	P	MBL
7439-96-5	Manganese	4.6			P	
7439-97-6	Mercury	0.032	B	J	CV	
7440-02-0	Nickel	2.3			P	
7440-09-7	Potassium	23.8	B	U	P	MBL
7782-49-2	Selenium	0.45	B	N J-	P	MSL
7440-22-4	Silver	0.57 0.08	B	U	P	MBL
7440-23-5	Sodium	570 72.6	B	U	P	MBL
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	10.8		*	P	
7440-66-6	Zinc	12.3			P	

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMC 6/21/2010

Comments:

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	07/07/2010 10:55

SB73-9-10
1005157-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	12.6	0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	2.74	2.50	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	10.4	0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	Reported:
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS51-0-1

1005157-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**8.00**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.79	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**8.00**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS51D-0-1

1005157-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**4.90**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.58	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**4.90**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS90-0-1
1005157-04 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.20**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**1.20**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SB90-2-3
1005157-05 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.60**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.39	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**3.60**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS70-0-1
1005157-06 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**0.70**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.05	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**0.700**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SB70-1-2
1005157-07 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.70**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.25	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**1.70**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS69-0-1

1005157-08 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.90**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.33	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**1.90**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SB69-2-3

1005157-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
Metals								
Chromium	**11.2**	0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**2.98**	2.44	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**8.76**	0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SB64-1-2

1005157-10 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**4.10**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.31	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**4.10**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SB65-1-2
1005157-11 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**4.20**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.50	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**4.20**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS64-0-1

1005157-12 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
Metals									
Chromium	**4.30**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.20	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**4.30**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS66-0-1

1005157-13 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**6.90**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	4.01	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**6.90**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS65-0-1

1005157-14 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.00**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.33	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**1.00**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS82-0-1

1005157-15 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.30**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.06	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**2.30**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SS82D-0-1
1005157-16 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.60**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.06	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**2.60**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SB82-2-3

1005157-17 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**14.8**		0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**2.27**	J	2.34	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**12.9**		0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 16:55

SB82D-2-3

1005157-18 (Soil)

COMPUCHEM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Metals								
Chromium	**9.40**	0.50	mg/kg	1	0060154	06/12/2010 12:23	06/12/2010 16:31	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**5.10**	2.33	mg/kg dry	1	0052530	05/25/2010 09:42	06/11/2010 16:47	EPA 7196A
Trivalent Chromium	**5.01**	0.500	mg/kg	1	[CALC]	06/12/2010 12:23	06/12/2010 16:31	Calc

6/29/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

Analyte	Affected Samples
Antimony	BBG-SS66-0-1-10B
Beryllium	BBG-SB73-9-10-10B
Calcium	BBG-SB73-9-10-10B, BBG-SS90-0-1-10B, BBG-SB90-2-3-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SS69-0-1-10B, BBG-SB69-2-3-10B, BBG-SB64-1-2-10B, BBG-SB65-1-2-10B, BBG-SS64-0-1-10B, BBG-SS65-0-1-10B, BBG-SB82D-2-3-10B
Chromium	BBG-SS70-0-1-10B, BBG-SS65-0-1-10B
Copper	BBG-SS90-0-1-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SS69-0-1-10B, BBG-SS65-0-1-10B
Magnesium	BBG-SB73-9-10-10B, BBG-SS51D-0-1-10B, BBG-SS90-0-1-10B, BBG-SB90-2-3-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SS69-0-1-10B, BBG-SB69-2-3-10B, BBG-SB64-1-2-10B, BBG-SB65-1-2-10B, BBG-SS64-0-1-10B, BBG-SS65-0-1-10B, BBG-SS82-0-1-10B, BBG-SS82D-0-1-10B, BBG-SB82-2-3-10B, BBG-SB82D-2-3-10B
Manganese	BBG-SB65-1-2-10B, BBG-SS65-0-1-10B
Nickel	BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SB65-1-2-10B, BBG-SS65-0-1-10B
Potassium	BBG-SB73-9-10-10B, BBG-SS51-0-1-10B, BBG-SB69-2-3-10B, BBG-SS66-0-1-10B, BBG-SB82-2-3-10B
Selenium	BBG-SS51-0-1-10B, BBG-SS51D-0-1-10B, BBG-SB90-2-3-10B, BBG-SS69-0-1-10B
Silver	BBG-SS51-0-1-10B, BBG-SS51D-0-1-10B, BBG-SS90-0-1-10B, BBG-SB90-2-3-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SS69-0-1-10B, BBG-SB69-2-3-10B, BBG-SB65-1-2-10B, BBG-SS64-0-1-10B, BBG-SS66-0-1-10B, BBG-SS65-0-1-10B, BBG-SS82-0-1-10B, BBG-SS82D-0-1-10B, BBG-SB82D-2-3-10B
Sodium	BBG-SB73-9-10-10B, BBG-SS51D-0-1-10B, BBG-SS90-0-1-10B, BBG-SS70-0-1-10B, BBG-SB70-1-2-10B, BBG-SB69-2-3-10B, BBG-SB64-1-2-10B, BBG-SB65-1-2-10B, BBG-SS64-0-1-10B, BBG-SS65-0-1-10B, BBG-SB90-2-3-10B, BBG-SS82-0-1-10B, BBG-SS82D-0-1-10B, BBG-SB82-2-3-10B, BBG-SB82D-2-3-10B

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

Positive results and RLs reported for antimony and selenium for the soil samples should be considered biased low quantitative estimates, and may be higher than reported. The associated matrix spike recoveries were below the acceptance limits for these analytes. The low recoveries indicate the presence of interferences for samples of similar matrix. Positive

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB82D-2-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-18

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 86.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	9620			P	
7440-36-0	Antimony	1.3	N	J-	P	MSC
7440-38-2	Arsenic	0.88	B	J	P	
7440-39-3	Barium	16.7	B	J	P	
7440-41-7	Beryllium	0.08	B	J	P	
7440-43-9	Cadmium	0.24	B	J	P	
7440-70-2	Calcium	570 515	B	U	P	MBC
7440-47-3	Chromium	9.4			P	
7440-48-4	Cobalt	0.32	B	J	P	
7440-50-8	Copper	2.6			P	
7439-89-6	Iron	4290			P	
7439-92-1	Lead	3.7			P	
7439-95-4	Magnesium	570 197	B	E U	P	MBC
7439-96-5	Manganese	4.6			P	
7439-97-6	Mercury	0.032	B	J	CV	
7440-02-0	Nickel	2.3			P	
7440-09-7	Potassium	570 23.8	B	U	P	MBC
7782-49-2	Selenium	0.45	N	J-	P	MSC
7440-22-4	Silver	0.57 0.08	B	U	P	MBC
7440-23-5	Sodium	570 72.6	B	U	P	MBC
7440-28-0	Thallium	1.1	U		P	
7440-62-2	Vanadium	10.8			P	
7440-66-6	Zinc	12.3			P	

SMC 9.14.2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SMC 9/9/2010

Comments:

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB90-2-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix (soil/water): SOIL Lab Sample ID: 1005157-05

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2510			P	
7440-36-0	Antimony	1.5		~~N~~ J-	P	MSC
7440-38-2	Arsenic	1.2	U		P	
7440-39-3	Barium	4.4	~~B~~	J	P	
7440-41-7	Beryllium	0.59	U		P	
7440-43-9	Cadmium	0.59	U		P	
7440-70-2	Calcium	591 ~~388~~	~~B~~	U	P	MBC
7440-47-3	Chromium	3.6			P	
7440-48-4	Cobalt	0.59	U		P	
7440-50-8	Copper	0.68			P	
7439-89-6	Iron	416		*	P	
7439-92-1	Lead	2.3			P	
7439-95-4	Magnesium	591 ~~102~~	~~B~~	~~E~~ U	P	MBC
7439-96-5	Manganese	1.5			P	
7439-97-6	Mercury	0.014	~~B~~	J	CV	
7440-02-0	Nickel	0.76			P	
7440-09-7	Potassium	591	U		P	
7782-49-2	Selenium	0.59 ~~0.47~~	~~B~~	~~N~~ U	P	MBC
7440-22-4	Silver	0.57 ~~0.08~~	~~B~~	U	P	MBC
7440-23-5	Sodium	591 ~~52.8~~	~~B~~	U	P	MBC
7440-28-0	Thallium	1.2	U		P	
7440-62-2	Vanadium	1.9	~~B~~ *	J	P	
7440-66-6	Zinc	1.3	~~B~~	J	P	

SM 9.14.2010

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

SM 8/29/2010

Comments:

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005180
Fraction: Inorganic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for metals and hexavelent chromium. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 2004 and " Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

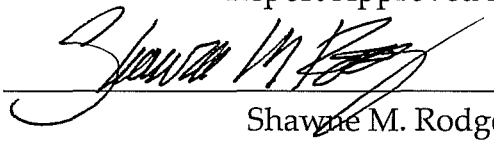
These documents specify procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
	•	Matrix Spike Recoveries and Reproducibility
	•	Laboratory Duplicate Analysis Results
	•	ICP Serial Dilution Results
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawnie M. Rodgers
President

8/29/2010

Date

1.0 DATA COMPLETENESS

The data package was complete.

2.0 CHAIN OF CUSTODY DOCUMENTATION

The chain of custody (COC) documentation was complete.

3.0 HOLDING TIMES

All criteria were met. No qualifiers were applied.

4.0 INITIAL AND CONTINUING CALIBRATIONS

All criteria were met. No qualifiers were applied.

5.0 ICP INTERFERENCE CHECK SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

6.0 LABORATORY AND FIELD BLANK ANALYSIS RESULTS

All criteria were met. No qualifiers were applied.

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

The laboratory did not select a site sample to perform matrix spike analyses. Therefore, the associated sample data could not be evaluated based on this parameter. This should be noted when assessing the sample data

8.0 LABORATORY DUPLICATE RESULTS

The laboratory did not select a site sample to perform laboratory duplicate analyses. Therefore, the associated sample data could not be evaluated

based on this parameter. This should be noted when assessing the sample data.

9.0 ICP SERIAL DILUTION RESULTS

The laboratory did not select a site sample to perform ICP serial dilution analyses. Therefore, the associated sample data could not be evaluated based on this parameter. This should be noted when assessing the sample data.

10.0 FIELD DUPLICATE RESULTS

There were no field duplicate samples submitted with this SDG.

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Metals (Except Mercury)	Method 6010B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Mercury	Method 7471A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Hexavalent Chromium	Method 7196A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS41-0-1-10B	1005180	1005180-01	5/20/2010	Soil	X	X	X			X
BBG-SB41-1-2-10B	1005180	1005180-02	5/20/2010	Soil	X	X	X			X
BBG-SS35-0-1-10B	1005180	1005180-03	5/20/2010	Soil	X	X	X			X
BBG-SB35-2-3-10B	1005180	1005180-04	5/20/2010	Soil	X	X	X			X

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/16/2010 09:55

SS41-0-1

1005180-01 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.60**		0.50	mg/kg	1	0060154	06/10/2010 12:23	06/10/2010 13:29	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.19	mg/kg dry	1	0060134	06/01/2010 11:01	06/11/2010 13:32	EPA 7196A
Trivalent Chromium	**2.60**		0.500	mg/kg	1	[CALC]	06/10/2010 12:23	06/11/2010 13:32	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/16/2010 09:55

SB41-1-2
1005180-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**4.80**		0.50	mg/kg	1	0060154	06/10/2010 12:23	06/10/2010 13:29	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.43	mg/kg dry	1	0060134	06/01/2010 11:01	06/11/2010 13:32	EPA 7196A
Trivalent Chromium	**4.80**		0.500	mg/kg	1	[CALC]	06/10/2010 12:23	06/11/2010 13:32	Calc

SMT 8/26/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/16/2010 09:55

SS35-0-1

1005180-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.30**		0.50	mg/kg	1	0060154	06/10/2010 12:23	06/10/2010 13:29	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0060134	06/01/2010 11:01	06/11/2010 13:32	EPA 7196A
Trivalent Chromium	**2.30**		0.500	mg/kg	1	[CALC]	06/10/2010 12:23	06/11/2010 13:32	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/16/2010 09:55

SB35-2-3

1005180-04 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.00**		0.50	mg/kg	1	0060154	06/10/2010 12:23	06/10/2010 13:29	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.25	mg/kg dry	1	0060134	06/01/2010 11:01	06/11/2010 13:32	EPA 7196A
Trivalent Chromium	**2.00**		0.500	mg/kg	1	[CALC]	06/10/2010 12:23	06/11/2010 13:32	Calc

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005187
Fraction: Inorganic
Matrix: Aqueous
Report Date: 8/27/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for metals and hexavalent chromium. The sample analyses were performed in accordance with the procedures outlined in the method referenced at the end of this report.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 2004 and " Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

These documents specify procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Initial and Continuing Calibrations
X	•	ICP Interference Check Sample Results
X	•	Laboratory and Field Blank Analysis Results
X	•	Matrix Spike Recoveries and Reproducibility
X	•	Laboratory Duplicate Analysis Results
X	•	ICP Serial Dilution Results
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
	•	GFAA Post-Digestion Spike Recovery/Duplicate Burn Precision
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/30/10
Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody (COC) documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

5.0 *ICP INTERFERENCE CHECK SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following positive results are considered to be nondetect due to the presence of these analytes in the associated continuing calibration blanks and/or preparation blanks presented in Table 2. The analytes were detected in the associated continuing calibration blanks and/or preparation blanks at levels less than the reporting limit (RL), indicating the possibility of a false positive at this level. The affected results for these samples are less than the RL. Replacing the sample result with the RL and marking it "U" has indicated this.

Analyte	Affected Samples
Antimony	BBG-GW10-10B, BBG-GW01-10B, BBG-GW03-10B, BBG-GW09-10B, BBG-GW09D-10B, BBG-GW08-10B, BBG-GW07-10B, BBG-GW04-10B, BBG-GW03UCH-10B, BBG-GW02-10B
Beryllium	BBG-GW02-10B
Calcium	BBG-GW03-10B, BBG-GW07-10B
Chromium	BBG-GW09D-10B, BBG-GW08-10B, BBG-GW07-10B, BBG-GW04-10B
Magnesium	BBG-GW03-10B, BBG-GW09-10B, BBG-GW09D-10B, BBG-GW07-10B, BBG-GW04-10B, BBG-GW03UCH-10B
Manganese	BBG-GW09D-10B
Nickel	BBG-GW01-10B, BBG-GW03-10B, BBG-GW09D-10B, BBG-GW07-10B
Potassium	BBG-GW09-10B, BBG-GW03UCH-10B, BBG-GW02-10B

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

Positive calcium results reported for the samples not previously qualified are quantitative estimates. The ICP serial precision criterion was exceeded for this analyte. The lack of precision may be due to interferences in samples of similar matrix. The positive calcium results have been marked with "J" qualifiers to indicate that they are quantitative estimates.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples BBG-GW09-10B and BBG-GW09D-10B were submitted to the laboratory evaluate sampling and analytical precision for those

analytes determined to be present. Results for these duplicate samples are presented in Table 2. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal an acceptance criterion of 25 percent for values greater than five times the reporting limit (RL) (or ± the RL for results less than five times the RL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Analysis	Reference
Metals (Except Mercury)	Method 6010B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Mercury	Method 7470A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Hexavalent Chromium	Method 7196A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-GW10-10B	1005187	1005187-01	5/24/2010	Groundwater	X	X	X			X
BBG-GW10-10B	1005187	1005187-01RE1	5/24/2010	Groundwater				X		
BBG-FB-052510	1005187	1005187-02	5/25/2010	Field Blank	X	X	X			X
BBG-FB-052510	1005187	1005187-02RE1	5/25/2010	Field Blank				X		
BBG-GW01-10B	1005187	1005187-03	5/25/2010	Groundwater	X	X	X			X
BBG-GW01-10B	1005187	1005187-03RE1	5/25/2010	Groundwater				X		
BBG-EB1-052510	1005187	1005187-04	5/25/2010	Equipment Blank	X	X	X			X
BBG-EB1-052510	1005187	1005187-04RE1	5/25/2010	Equipment Blank				X		
BBG-GW03-10B	1005187	1005187-05	5/25/2010	Groundwater	X	X	X			X
BBG-GW03-10B	1005187	1005187-05RE1	5/25/2010	Groundwater				X		
BBG-EB2-052510	1005187	1005187-06	5/25/2010	Equipment Blank	X	X	X			X
BBG-EB2-052510	1005187	1005187-06RE1	5/25/2010	Equipment Blank				X		
BBG-GW09-10B	1005187	1005187-07	5/26/2010	Groundwater	X	X	X			X
BBG-GW09-10B	1005187	1005187-07RE1	5/26/2010	Groundwater				X		
BBG-GW09D-10B	1005187	1005187-08	5/26/2010	Groundwater	X	X	X			X
BBG-GW09D-10B	1005187	1005187-08RE1	5/26/2010	Groundwater				X		
BBG-GW08-10B	1005187	1005187-09	5/26/2010	Groundwater	X	X	X			X
BBG-GW08-10B	1005187	1005187-09RE1	5/26/2010	Groundwater				X		
BBG-GW07-10B	1005187	1005187-10	5/27/2010	Groundwater	X	X	X			X
BBG-GW07-10B	1005187	1005187-10RE1	5/27/2010	Groundwater				X		
BBG-EB1-052710	1005187	1005187-11	5/27/2010	Equipment Blank	X	X	X			X
BBG-EB1-052710	1005187	1005187-11RE1	5/27/2010	Equipment Blank				X		
BBG-GW04-10B	1005187	1005187-12	5/27/2010	Groundwater	X	X	X			X
BBG-GW04-10B	1005187	1005187-12RE1	5/27/2010	Groundwater				X		
BBG-GW03UCH-10B	1005187	1005187-13	5/27/2010	Groundwater	X	X	X			X
BBG-GW03UCH-10B	1005187	1005187-13RE1	5/27/2010	Groundwater				X		
BBG-GW02-10B	1005187	1005187-14	5/27/2010	Groundwater	X	X	X			X
BBG-GW02-10B	1005187	1005187-14RE2	5/27/2010	Groundwater				X		

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-EB2-052710	1005187	1005187-15	5/27/2010	Equipment Blank	X	X	X			X
BBG-EB2-052710	1005187	1005187-15RE1	5/27/2010	Equipment Blank				X		
BBG-EB3-052710	1005187	1005187-16	5/27/2010	Equipment Blank	X	X	X			X
BBG-EB3-052710	1005187	1005187-16RE1	5/27/2010	Equipment Blank				X		

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS			ASSOC. SAMPLES
PB	Antimony	4.886	J	µg/L	All Samples
	Calcium	390.088	J	µg/L	
	Manganese	0.277	J	µg/L	
	Potassium	-1443.87	J	µg/L	
	Thallium	-3.728	J	µg/L	
CCB3	Aluminum	51	J	µg/L	BBG-GW02
	Beryllium	1.2	J	µg/L	
	Calcium	380.9	J	µg/L	
	Magnesium	16	J	µg/L	
	Manganese	0.3	J	µg/L	
	Potassium	-1440.4	J	µg/L	
CCB4	Aluminum	33.4	J	µg/L	BBG-GW02, BBG-GW10, BBG-GW01, BBG-GW03
	Calcium	382	J	µg/L	
	Magnesium	19.8	J	µg/L	
	Manganese	0.3	J	µg/L	
	Potassium	-1431.8	J	µg/L	
CCB5	Aluminum	35.9	J	µg/L	BBG-GW10, BBG-GW01, BBG-GW03, BBG-GW09 (No Nickel),
	Calcium	387.3	J	µg/L	BBG-GW09D (No Nickel), BBG-GW08 (No Nickel), BBG-GW07
	Magnesium	25.2	J	µg/L	(No Nickel), BBG-GW04 (No Nickel), BBG-GW03UCH (No
	Manganese	0.4	J	µg/L	Nickel)
	Nickel	0.9	J	µg/L	
	Potassium	-1424.9	J	µg/L	
CCB6	Aluminum	36.1	J	µg/L	BBG-GW09, BBG-GW09D, BBG-GW08, BBG-GW07, BBG-GW04,
	Beryllium	1.1	J	µg/L	BBG-GW03UCH
	Calcium	377	J	µg/L	
	Chromium	5.1	J	µg/L	

Table 2 **Blank Results for Inorganic Analyses**

BLANK	ANALYTE	CONCENTRATION /UNITS	ASSOC. SAMPLES
	Iron	24.4 J µg/L	
	Magnesium	11.8 J µg/L	
	Manganese	1.2 J µg/L	
	Potassium	-1432.2 J µg/L	

Table 3 Field Duplicate Sample Results for Inorganic Analyses
Groundwater Duplicate Samples BBG-GW09-10B and BBG-GW09D-10B

Analyte	Sample Result (µg/L)		Field Duplicate Result (µg/L)		RPD	ACTION
	BBG-GW09-10B		BBG-GW09D-10B			
Aluminum	31500		5110		144	
Arsenic	5.5	J	ND		NC	
Barium	1210		205		142	
Calcium	10300	J	9390	J	9	
Chromium	44		ND	J	NC	
Copper	16.4		ND		NC	
Iron	3230		557		141	
Lead	13.9		3.2		125	
Manganese	12.1		ND	J	NC	
Nickel	7.3		ND	J	NC	
Sodium	3280	J	4460	J	30	
Vanadium	27.6		5.4	J	135	
Zinc	22.3		5.2	J	124	

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-GW10

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-01

Level (low/med): LOW Date Received: 5/24/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	908			P
7440-36-0	Antimony	10.0 ~~4.0~~	~~B~~	U	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	21.3	~~B~~	J	P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	5860		~~E~~ J	P
7440-47-3	Chromium	1.3	~~B~~	J	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	3.7	~~B~~	J	P
7439-89-6	Iron	318			P
7439-92-1	Lead	2.6	~~B~~	J	P
7439-95-4	Magnesium	2850	~~B~~	J	P
7439-96-5	Manganese	30.3			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	3.8	~~B~~	J	P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	12000			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	6.3	~~B~~	J	P

MBL

SD

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
FB-052510

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-02

Level (low/med): LOW Date Received: 5/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	47.7	~~B~~	J	P
7440-36-0	Antimony	4.5	~~B~~	J	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	1.3	~~B~~	J	P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	411	~~B~~	~~E~~ J	P
7440-47-3	Chromium	1.2	~~B~~	J	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	6.3			P
7439-89-6	Iron	17.4	~~B~~	J	P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.41	~~B~~	J	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.1	~~B~~	VJ	P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SMA 8/27/10

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-GW01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-03

Level (low/med): LOW Date Received: 5/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5760			P	
7440-36-0	Antimony	10.0 ~~6.7~~	~~B~~	U	P	MBC
7440-38-2	Arsenic	10.0	U		P	
7440-39-3	Barium	24.9	~~B~~	J	P	
7440-41-7	Beryllium	0.98	~~B~~	J	P	
7440-43-9	Cadmium	5.0	U		P	
7440-70-2	Calcium	89300		~~E~~ J	P	SD
7440-47-3	Chromium	7.0	~~B~~	J	P	
7440-48-4	Cobalt	5.0	U		P	
7440-50-8	Copper	1.1	~~B~~	J	P	
7439-89-6	Iron	2060			P	
7439-92-1	Lead	3.7			P	
7439-95-4	Magnesium	2570	~~B~~	J	P	
7439-96-5	Manganese	15.1			P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	5.0 ~~1.6~~	~~B~~	U	P	MBC
7440-09-7	Potassium	5000	U		P	
7782-49-2	Selenium	5.0	U		P	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	6930			P	
7440-28-0	Thallium	10.0	U		P	
7440-62-2	Vanadium	9.3	~~B~~	J	P	
7440-66-6	Zinc	5.9	~~B~~	J	P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB1-052510

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-04

Level (low/med): LOW Date Received: 5/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36.5	B	J	P
7440-36-0	Antimony	5.6	B	J	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	0.93	B	J	P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	398	B	EJ	P
7440-47-3	Chromium	0.96	B	J	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	13.9	B	J	P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.39	B	J	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BBG-GW03

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-05

Level (low/med): LOW Date Received: 5/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	982			P	
7440-36-0	Antimony	10.0 ~~5.4~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	10.0	U		P	
7440-39-3	Barium	84.6	~~B~~	J	P	
7440-41-7	Beryllium	5.0	U		P	
7440-43-9	Cadmium	5.0	U		P	
7440-70-2	Calcium	5000 ~~4810~~	~~B~~	~~E~~ U	P	MBL
7440-47-3	Chromium	1.7	~~B~~	J	P	
7440-48-4	Cobalt	5.0	U		P	
7440-50-8	Copper	5.0	U		P	
7439-89-6	Iron	62.1	~~B~~	J	P	
7439-92-1	Lead	3.0	U		P	
7439-95-4	Magnesium	8740			P	
7439-96-5	Manganese	10.0 ~~9.2~~	~~B~~	U	P	MBL
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	5.0 ~~1.4~~	~~B~~	U	P	MBL
7440-09-7	Potassium	5000	U		P	
7782-49-2	Selenium	5.0	U		P	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	8320			P	
7440-28-0	Thallium	10.0	U		P	
7440-62-2	Vanadium	20.0	U		P	
7440-66-6	Zinc	7.7	~~B~~	J	P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW 8/2/10

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EB2-052510

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-06

Level (low/med): LOW Date Received: 5/25/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	32.4	~~B~~	J	P
7440-36-0	Antimony	4.2	~~B~~	J	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	402	~~B~~	~~E~~ J	P
7440-47-3	Chromium	0.85	~~B~~	J	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	13.8	~~B~~	J	P
7439-92-1	Lead	2.1	~~B~~	J	P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.28	~~B~~	J	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-GW09

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-07

Level (low/med): LOW Date Received: 5/26/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	31500			P
7440-36-0	Antimony	10.0 ~~4.2~~	~~B~~	U	P
7440-38-2	Arsenic	5.5	~~B~~	J	P
7440-39-3	Barium	1210			P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	10300	~~E~~	J	P
7440-47-3	Chromium	44.0			P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	16.4			P
7439-89-6	Iron	3230			P
7439-92-1	Lead	13.9			P
7439-95-4	Magnesium	5000 ~~1790~~	~~B~~	U	P
7439-96-5	Manganese	12.1			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	7.3			P
7440-09-7	Potassium	5000 ~~395~~	~~B~~	U	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	3280	~~B~~	J	P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	27.6			P
7440-66-6	Zinc	22.3			P

MB L

SA

MB

MB

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BBG-GW09D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-08

Level (low/med): LOW Date Received: 5/26/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5110			P	
7440-36-0	Antimony	~~4.3~~ 10.0	~~B~~	~~✓~~ U	P	MBL
7440-38-2	Arsenic	10.0	U		P	
7440-39-3	Barium	205			P	
7440-41-7	Beryllium	5.0	U		P	
7440-43-9	Cadmium	5.0	U		P	
7440-70-2	Calcium	9390	~~E~~	J	P	SD
7440-47-3	Chromium	~~7.1~~ 10.0	~~B~~	U	P	MBL
7440-48-4	Cobalt	5.0	U		P	
7440-50-8	Copper	5.0	U		P	
7439-89-6	Iron	557	✓		P	
7439-92-1	Lead	3.2			P	
7439-95-4	Magnesium	~~1690~~ 5000	~~B~~	U	P	MBL
7439-96-5	Manganese	~~5.7~~ 10.0	~~B~~	U	P	MBL
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	~~1.3~~ 5.0	~~B~~	U	P	MBL
7440-09-7	Potassium	5000	U		P	
7782-49-2	Selenium	5.0	U		P	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	4460	~~B~~	J	P	
7440-28-0	Thallium	10.0	U		P	
7440-62-2	Vanadium	5.4	~~B~~	J	P	
7440-66-6	Zinc	5.2	~~B~~	J	P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BBG-GW08

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-09

Level (low/med): LOW Date Received: 5/26/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	285			P
7440-36-0	Antimony	10.0 ~~4.2~~	~~B~~	U	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	82300		~~E~~ J	P
7440-47-3	Chromium	10.0 ~~5.5~~	~~B~~	U	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	2.1	~~B~~	J	P
7439-89-6	Iron	738			P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	2520	~~B~~	J	P
7439-96-5	Manganese	12.6			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	6 20 ~~2.0~~	~~B~~	J	P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	6310			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	3.8	~~B~~	J	P
7440-66-6	Zinc	7.8	~~B~~	J	P

MBL

MBL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-GW07

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-10

Level (low/med): LOW Date Received: 5/27/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	330			P	
7440-36-0	Antimony	10.0 ~~6.6~~	~~B~~	U	P	MBL
7440-38-2	Arsenic	10.0	U		P	
7440-39-3	Barium	29.7	~~B~~	J	P	
7440-41-7	Beryllium	0.81	~~B~~	J	P	
7440-43-9	Cadmium	5.0	U		P	
7440-70-2	Calcium	5000 ~~2080~~	~~B~~	E U	P	MBL
7440-47-3	Chromium	10.0 ~~1.2~~	~~B~~	U	P	MBL
7440-48-4	Cobalt	5.0	U		P	
7440-50-8	Copper	2.4	~~B~~	J	P	
7439-89-6	Iron	480			P	
7439-92-1	Lead	3.0	U		P	
7439-95-4	Magnesium	3000 ~~1180~~	~~B~~	U	P	MBL
7439-96-5	Manganese	21.0			P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	5.0 ~~2.8~~	~~B~~	U	P	MBL
7440-09-7	Potassium	5000	U		P	
7782-49-2	Selenium	5.0	U		P	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	8240			P	
7440-28-0	Thallium	10.0	U		P	
7440-62-2	Vanadium	20.0	U		P	
7440-66-6	Zinc	15.0	~~B~~	J	P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW 6/2/2010

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB1-052710

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-11

Level (low/med): LOW Date Received: 5/27/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.8	B	J	P
7440-36-0	Antimony	4.1	B	J	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	0.93	B	J	P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	401	B	E J	P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	1.7	B	J	P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.28	B	J	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	170	B	J	P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

SMM 8/27/2010

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-GW04

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-12

Level (low/med): LOW Date Received: 5/27/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	182	~~B~~ V	J	P	
7440-36-0	Antimony	10.0 5.4	~~B~~	U	P	MBL
7440-38-2	Arsenic	4.4	~~B~~	J	P	
7440-39-3	Barium	18.8	~~B~~	J	P	
7440-41-7	Beryllium	5.0	U		P	
7440-43-9	Cadmium	5.0	U		P	
7440-70-2	Calcium	125000		~~E~~ J	P	SD
7440-47-3	Chromium	10.0 3.7	~~B~~	U	P	MBL
7440-48-4	Cobalt	5.0	U		P	
7440-50-8	Copper	5.0	U		P	
7439-89-6	Iron	1180			P	
7439-92-1	Lead	3.0	U		P	
7439-95-4	Magnesium	5000 ~~2640~~	~~B~~	U	P	MBL
7439-96-5	Manganese	26.4			P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	9.3			P	
7440-09-7	Potassium	5000	U		P	
7782-49-2	Selenium	5.0	U		P	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	3500	~~B~~	J	P	
7440-28-0	Thallium	10.0	U		P	
7440-62-2	Vanadium	3.4	~~B~~	J	P	
7440-66-6	Zinc	4.5	~~B~~	J	P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-GW03UCH

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-13

Level (low/med): LOW Date Received: 5/27/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	92.0	~~B~~	J	P
7440-36-0	Antimony	10.0 ~~5.8~~	~~B~~	U	P
7440-38-2	Arsenic	3.4	~~B~~	J	P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	32500		E J	P
7440-47-3	Chromium	2.3	~~B~~	J	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	4.2	~~B~~	J	P
7439-89-6	Iron	290			P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000 ~~1460~~	~~B~~	U	P
7439-96-5	Manganese	17.7			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.4	B		P
7440-09-7	Potassium	5000 ~~178~~	~~B~~	U	P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	18300			P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	5.4	~~B~~	J	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-GW02

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-14

Level (low/med): LOW Date Received: 5/27/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	169	~~B~~	~~J~~	P	
7440-36-0	Antimony	10.0 ~~5.1~~	~~B~~	U	P	MB
7440-38-2	Arsenic	10.0	U		P	
7440-39-3	Barium	71.1	~~B~~	J	P	
7440-41-7	Beryllium	5.0 ~~1.6~~	~~B~~	U	P	MB
7440-43-9	Cadmium	5.0	U		P	
7440-70-2	Calcium	14400		~~E~~ J	P	SD
7440-47-3	Chromium	10.0	U		P	
7440-48-4	Cobalt	5.0	U		P	
7440-50-8	Copper	5.0	U		P	
7439-89-6	Iron	100	U		P	
7439-92-1	Lead	3.0	U		P	
7439-95-4	Magnesium	7300			P	
7439-96-5	Manganese	28.2			P	
7439-97-6	Mercury	0.20	U		CV	
7440-02-0	Nickel	2.2	~~B~~	J	P	
7440-09-7	Potassium	5000 ~~510~~	~~B~~	U	P	MB
7782-49-2	Selenium	5.0	U		P	
7440-22-4	Silver	5.0	U		P	
7440-23-5	Sodium	17000			P	
7440-28-0	Thallium	10.0	U		P	
7440-62-2	Vanadium	20.0	U		P	
7440-66-6	Zinc	16.5	~~B~~	J	P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SMC 8/27/10

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB2-052710

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-15

Level (low/med): LOW Date Received: 5/27/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	53.8	B	J	P
7440-36-0	Antimony	4.5	B	J	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	1.6	B	J	P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	412	B	EJ	P
7440-47-3	Chromium	0.91	B	J	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	17.6	B	J	P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	9.3	B	J	P
7439-96-5	Manganese	0.56	B	J	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	160	B	J	P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EB3-052710

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix (soil/water): WATER Lab Sample ID: 1005187-16

Level (low/med): LOW Date Received: 5/27/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	74.5	B	J	P
7440-36-0	Antimony	4.4	B	J	P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	0.92	B	J	P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	1030	B	E J	P
7440-47-3	Chromium	1.3	B	J	P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	3.3	B	J	P
7439-89-6	Iron	45.5	B	J	P
7439-92-1	Lead	1.9	B	J	P
7439-95-4	Magnesium	17.4	B	J	P
7439-96-5	Manganese	1.1	B	J	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	683	B	J	P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	53.7			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

BBG-GW10

1005187-01 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	**1.30**	J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0060138	05/25/2010 10:15	05/25/2010 10:31	EPA 7196A
Trivalent Chromium	**1.30**	J	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

cdau 8/9/10

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

FB-052510

1005187-02 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	**1.20**	J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0060138	05/26/2010 09:00	05/26/2010 10:00	EPA 7196A
Trivalent Chromium	**1.20**	J	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

cdai 8/9/10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

BBG-GW01

1005187-03 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	**7.00**		5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0060138	05/26/2010 09:00	05/26/2010 10:01	EPA 7196A
Trivalent Chromium	**7.00**		5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

EB1-052510

1005187-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		COMPUCHEM						
TOTAL METALS BY ICP/CV								
Chromium	**0.96** J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	~~1.25 J,B~~ 10.0 U	10.0	ug/L	MBL	0060138	05/26/2010 09:00	05/26/2010 10:02	EPA 7196A
Trivalent Chromium	ND U	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

cdm 8/9/10

8/9/10

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

BBG-GW03

1005187-05 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
				COMPUCHEM					
TOTAL METALS BY ICP/CV									
Chromium	**1.70**	J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0060138	05/26/2010 09:00	05/26/2010 10:03	EPA 7196A
Trivalent Chromium	**1.70**	J	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

cdai 8/9/10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC. 5700 CLEVELAND STREET, SUITE 101 VIRGINIA BEACH VA, 23462	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Manager: REBEKHA SHAW	**Reported:** 08/06/2010 16:11

EB2-052510

1005187-06 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	**0.85**	J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0060138	05/26/2010 09:00	05/26/2010 10:04	EPA 7196A
Trivalent Chromium	**0.850**	J	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

cdar 8/9/10

SMM 8/27/10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

BBG-GW09

1005187-07 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	**44.0**		5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0060138	05/27/2010 08:59	05/27/2010 09:24	EPA 7196A
Trivalent Chromium	**44.0**		5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

BBG-GW09D

1005187-08 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	**7.10**		5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0060138	05/27/2010 08:59	05/27/2010 09:25	EPA 7196A
Trivalent Chromium	**7.10**		5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

8/27/10

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC. 5700 CLEVELAND STREET, SUITE 101 VIRGINIA BEACH VA, 23462	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Manager: REBEKHA SHAW	**Reported:** 08/06/2010 16:11

BBG-GW08

1005187-09 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	**5.50**		5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0060138	05/27/2010 08:59	05/27/2010 09:26	EPA 7196A
Trivalent Chromium	**5.50**		5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

8/27/10

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

BBG-GW07

1005187-10 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	**1.20**	J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**10.6**	B	10.0	ug/L	1	0060138	05/28/2010 07:59	05/28/2010 08:30	EPA 7196A
Trivalent Chromium	ND	U	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

CDM 8/9/10

8/9/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

EB1-052710

1005187-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
TOTAL METALS BY ICP/CV								
Chromium	ND	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	10.0 ~~2.27 J,B~~ U	10.0	ug/L	MRL	0060138	05/28/2010 07:59	05/28/2010 08:30	EPA 7196A
Trivalent Chromium	ND	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

8/27/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC. 5700 CLEVELAND STREET, SUITE 101 VIRGINIA BEACH VA, 23462	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Manager: REBEKHA SHAW	**Reported:** 08/06/2010 16:11

BBG-GW04

1005187-12 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
TOTAL METALS BY ICP/CV								
Chromium	**3.70** J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	10.0 ~~1.66 J,B~~	10.0	ug/L	MRL 1	0060138	05/28/2010 07:59	05/28/2010 08:31	EPA 7196A
Trivalent Chromium	**2.04** J	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

cdau 8/9/10

8/9/10

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

BBG-GW03UCH

1005187-13 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
TOTAL METALS BY ICP/CV								
Chromium	**2.30** J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	10.0 U ~~1.73 J, B~~	10.0	ug/L	MB 1	0060138	05/28/2010 07:59	05/28/2010 08:32	EPA 7196A
Trivalent Chromium	ND	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

SM 8/2/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC. 5700 CLEVELAND STREET, SUITE 101 VIRGINIA BEACH VA, 23462	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Manager: REBEKHA SHAW	**Reported:** 08/06/2010 16:11

BBG-GW02

1005187-14 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
TOTAL METALS BY ICP/CV								
Chromium	ND	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	10.0 ~~5.19 J,B~~	U 10.0	ug/L	MB	0060138	05/28/2010 07:59	05/28/2010 08:33	EPA 7196A
Trivalent Chromium	ND	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

8/12/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC. 5700 CLEVELAND STREET, SUITE 101 VIRGINIA BEACH VA, 23462	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Manager: REBEKHA SHAW	**Reported:** 08/06/2010 16:11

EB2-052710

1005187-15 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	**0.91**	J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.72**	~~J~~ J	10.0	ug/L	1	0060138	05/28/2010 07:59	05/28/2010 08:34	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

SMT 8/27/10

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC. 5700 CLEVELAND STREET, SUITE 101 VIRGINIA BEACH VA, 23462	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Manager: REBEKHA SHAW	**Reported:** 08/06/2010 16:11

EB3-052710

1005187-16 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		COMPUCHEM						
TOTAL METALS BY ICP/CV								
Chromium	**1.30** J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**2.32** ~~J~~ J	10.0	ug/L	1	0060138	05/28/2010 07:59	05/28/2010 08:35	EPA 7196A
Trivalent Chromium	ND	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

8/2/2010

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

Analyte	Affected Samples
Antimony	BBG-GW10-10B, BBG-GW01-10B, BBG-GW03-10B, BBG-GW09-10B, BBG-GW09D-10B, BBG-GW08-10B, BBG-GW07-10B, BBG-GW04-10B, BBG-GW03UCH-10B, BBG-GW02-10B
Beryllium	BBG-GW02-10B
Calcium	BBG-GW03-10B, BBG-GW07-10B
Chromium	BBG-GW09D-10B, BBG-GW08-10B, BBG-GW07-10B, BBG-GW04-10B
Hexavalent Chromium	BBG-GW04-10B, BBG-GW03UCH-10B, BBG-GW02-10B
Magnesium	BBG-GW09-10B, BBG-GW09D-10B, BBG-GW07-10B, BBG-GW04-10B, BBG-GW03UCH-10B
Manganese	BBG-GW03-10B, BBG-GW09D-10B
Nickel	BBG-GW01-10B, BBG-GW03-10B, BBG-GW09D-10B, BBG-GW07-10B
Potassium	BBG-GW09-10B, BBG-GW03UCH-10B, BBG-GW02-10B

7.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

8.0 LABORATORY DUPLICATE RESULTS

All criteria were met. No qualifiers were applied.

9.0 ICP SERIAL DILUTION RESULTS

Positive calcium results reported for the samples not previously qualified are quantitative estimates. The ICP serial precision criterion was exceeded for this analyte. The lack of precision may be due to interferences in samples of similar matrix. The positive calcium results have been marked with "J" qualifiers to indicate that they are quantitative estimates.

10.0 FIELD DUPLICATE RESULTS

Duplicate samples BBG-GW09-10B and BBG-GW09D-10B were submitted to the laboratory evaluate sampling and analytical precision for those analytes determined to be present. Results for these duplicate samples are presented in Table 2. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal an acceptance criterion of 25 percent for values greater than five times the reporting limit (RL) (or ± the RL for results less than five times the RL).

11.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

12.0 GFAA POST-DIGESTION SPIKE/DUPLICATE BURN

This parameter is not applicable to the analyses completed.

13.0 QUALITATIVE IDENTIFICATION

All criteria were met. No qualifiers were applied.

14.0 QUANTITATION/REPORTING LIMITS

As required by USEPA protocol, all analytes, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

EB1-052710

1005187-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
			COMPUCHEM					
TOTAL METALS BY ICP/CV								
Chromium	ND	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	2.27 ~~10.0~~ J ~~2.27 J, B~~	10.0	ug/L	1	0060138	05/28/2010 07:59	05/28/2010 08:30	EPA 7196A
Trivalent Chromium	ND	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

MRL
9.14.2010

9/27/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	08/06/2010 16:11

EB1-052510

1005187-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
		COMPUCHEM						
TOTAL METALS BY ICP/CV								
Chromium	**0.96** J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	~~1.25 J,B~~ 1.25 J 1000 U	10.0	ug/L MBL		0060138	05/26/2010 09:00	05/26/2010 10:02	EPA 7196A
Trivalent Chromium	ND U	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

SMK 9.14.2010

cda 8/9/10

SMK 8/9/10

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC. 5700 CLEVELAND STREET, SUITE 101 VIRGINIA BEACH VA, 23462	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM Project Manager: REBEKHA SHAW	**Reported:** 08/06/2010 16:11

BBG-GW04

1005187-12 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
TOTAL METALS BY ICP/CV								
Chromium	**3.70** J	5.00	ug/L	1	0062127	06/15/2010 10:59	06/15/2010 15:00	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	10.0 U ~~1.66 J,B~~	10.0	ug/L	MRL 1	0060138	05/28/2010 07:59	05/28/2010 08:31	EPA 7196A
Trivalent Chromium	**2.04** J	5.00	ug/L	1	[CALC]	06/15/2010 10:59	06/15/2010 15:00	EPA 7196A

SMK 9.14.2010 cdau 8/9/10

8/27/2010

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005129
Fraction: Organic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. Two field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/29/02
Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following compounds were detected in associated laboratory method and/or field blanks.

Blank	Compound	Concentration (µg/Kg)	Associated Samples
PBLKBD	gamma-Chlordane	0.79	All Samples

The gamma-chlordane results for samples BBG-SS54-0-1-10B, BBG-SS53-0-1-10B, BBG-SB53-7-8-10B, BBG-SB80-3-4-10B, BBG-SB59-9-10-10B, and BBG-SS89-0-1-10B are qualitatively invalid due to the presence of this compound in the associated laboratory method blank. USEPA protocol

requires positive results for uncommon contaminants, such as gamma-chlordane, that are less than or equal to five times the associated blank contamination level, to be considered qualitatively invalid. The result for the sample is less than the reporting limit (RL). It has been replaced with the RL and marked "U".

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 FIELD DUPLICATE RESULTS

There were no field duplicate samples submitted with this SDG.

10.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

11.0 INTERNAL STANDARD PERFORMANCE

Area counts for the internal standard compounds were below acceptance limits for the analyses of the following samples. The low area counts may be due to the presence of matrix interferences for these samples. All samples were re-analyzed and confirmed the unacceptable internal standard areas. The analysis run used for reporting purposes is indicated. The results for compounds that were quantitated using these internal standard compounds should be considered quantitative estimates. Placing "J" qualifiers next to positive results for affected compounds has indicated this. The RLs for nondetected compounds have been marked "UJ".

Sample	Unacceptable Internal Standard(s)	Run Used For Reporting	Qualified Results
BBG-SS54-0-1-10B	All Internal Standards	Initial	All Results
BBG-SS53-0-1-10B	All Internal Standards	Initial	All Results

12.0 QUALITATIVE IDENTIFICATION

Positive results were reported for benzo (b) fluoranthene and benzo (k) fluoranthene for sample BBG-SS52-0-1-10B. These compounds are isomers with nearly identical mass spectra. Because the isomers cannot be resolved on the chromatographic columns used for analysis, the concentrations reported actually represent total concentrations of benzo (b) fluoranthene and/or benzo (k) fluoranthene. This should be noted when assessing the data.

13.0 QUANTITATION/REPORTING LIMITS

The following samples were re-analyzed at dilutions for pesticide compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
BBG-SS80-0-1-10B	10.0	4,4'-DDT

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-SB55-2.5-3-10B	Heptachlor
BBG-SS54-0-1-10B	Dieldrin,
BBG-SB54-4-5-10B	4,4'-DDT
BBG-SS53-0-1-10B	Endrin
BBG-SB53-7-8-10B	Endosulfan II, alpha-Chlordane
BBG-SB53-7-8-10B	alpha-Chlordane
BBG-SS56-0-1-10B	Heptachlor
BBG-SS52-0-1-10B	Heptachlor
BBG-SS60-0-1-10B	Dieldrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide
BBG-SS59-0-1-10B	Aldrin
BBG-SB59-9-10-10B	Dieldrin
BBG-SS85-0-1-10B	Heptachlor
BBG-SS89-0-1-10B	Beta-BHC

Poor precision (greater than 70 % difference between results) was observed for the pesticide compounds presented in Table 2 on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Polynuclear Aromatic Hydrocarbons	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Pesticide Compounds	Method 8081A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS55-00-01-10B	1005129	1005129-01	5/11/2010	Soil	X	X	X		X	X
BBG-SB55-2.5-3-10B	1005129	1005129-02	5/11/2010	Soil	X	X	X		X	X
BBG-SS54-0-1-10B	1005129	1005129-03	5/11/2010	Soil	X	X	X		X	X
BBG-SB54-4-5-10B	1005129	1005129-04	5/11/2010	Soil	X	X	X		X	X
BBG-SS53-0-1-10B	1005129	1005129-05	5/11/2010	Soil	X	X	X		X	X
BBG-SB53-7-8-10B	1005129	1005129-06	5/11/2010	Soil	X	X	X		X	X
BBG-SS80-0-1-10B	1005129	1005129-07	5/12/2010	Soil	X	X	X		X	X
BBG-SB80-3-4-10B	1005129	1005129-08	5/12/2010	Soil	X	X	X		X	X
BBG-SS56-0-1-10B	1005129	1005129-09	5/11/2010	Soil	X	X	X		X	X
BBG-SB56-3-4-10B	1005129	1005129-10	5/11/2010	Soil	X	X	X		X	X
BBG-SS58-0-1-10B	1005129	1005129-11	5/12/2010	Soil	X	X	X		X	X
BBG-SS52-0-1-10B	1005129	1005129-12	5/11/2010	Soil	X	X	X		X	X
BBG-SS57-0-1-10B	1005129	1005129-13	5/12/2010	Soil	X	X	X		X	X
BBG-SS60-0-1-10B	1005129	1005129-14	5/12/2010	Soil	X	X	X		X	X
BBG-SS59-0-1-10B	1005129	1005129-15	5/12/2010	Soil	X	X	X		X	X
BBG-SB59-9-10-10B	1005129	1005129-16	5/12/2010	Soil	X	X	X		X	X
BBG-SS85-0-1-10B	1005129	1005129-17	5/13/2010	Soil	X	X	X		X	X
BBG-SS89-0-1-10B	1005129	1005129-18	5/13/2010	Soil	X	X	X		X	X
BBG-SB89-6.5-7.5-10B	1005129	1005129-19	5/13/2010	Soil	X	X	X		X	X
BBG-SS78-0-1-10B	1005129	1005129-20	5/13/2010	Soil	X	X	X		X	X

Table 2 Pestcide Results Qualified Due to Dual Column Imprecision

Sample	Affected Compounds
BBG-SS55-00-01-10B	Endosulfan sulfate, Methoxychlor, Endrin Keton
BBG-SS54-0-1-10B	beta-BHC,4,4'-DDE, Heptachlor, alpha-Chlordane
BBG-SB54-4-5-10B	Dieldrin, Endosulfan Sulfate, Endrin, gamma-Chlordane
BBG-SS53-0-1-10B	delta-BHC, gamma-BHC, 4,4'-DDD, Endosulfan I, Endrin ketone,alpha-Chlordane
BBG-SB53-7-8-10B	gamma-BHC
BBG-SS80-0-1-10B	delta-BHC,Dieldrin, Endosulfan I, Endosulfan II, Endrin, Endrin Ketone, gamma-Chlordane
BBG-SS56-0-1-10B	beta-BHC, delta-BHC, gamma-BHC, 4,4'-DDE, Endrin Aldehyde
BBG-SS52-0-1-10B	Endosulfan Sulfate
BBG-SS57-0-1-10B	Endosulfan Sulfate, Endrin Ketone
BBG-SS60-0-1-10B	Endosulfan I, Endosulfan Sulfate, Methoxychlor, alpha-Chlordane
BBG-SS59-0-1-10B	delta-BHC, Heptachlor
BBG-SB59-9-10-10B	gamma-BHC, 4,4'-DDE, Endosulfan I, Endrin, Heptachlor
BBG-SS89-0-1-10B	4,4'-DDT, Dieldrin, Endrin
BBG-SB89-6.5-7.5-10B	Dieldrin, Endosulfan Sulfate
BBG-SS78-0-1-10B	4,4'-DDT, Endrin Aldehyde, Heptachlor, alpha-Chlordane

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS55-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-01J2C66
Analyst: 2743

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	ND	U
91-57-6	2-Methylnaphthalene	1.0	13	ND	U
208-96-8	Acenaphthylene	0.81	13	ND	U
83-32-9	Acenaphthene	0.91	13	ND	U
86-73-7	Fluorene	0.68	13	ND	U
85-01-8	Phenanthrene	2.0	13	2.1	J
120-12-7	Anthracene	0.66	13	ND	U
206-44-0	Fluoranthene	2.0	13	ND	U
129-00-0	Pyrene	0.86	13	1.4	J
56-55-3	Benzo(a)anthracene	0.86	13	0.86	J
218-01-9	Chrysene	0.96	13	1.3	J
205-99-2	Benzo(b)fluoranthene	0.86	13	1.3	J
207-08-9	Benzo(k)fluoranthene	0.66	13	1.3	J
50-32-8	Benzo(a)pyrene	0.58	13	0.73	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	0.98	J
53-70-3	Dibenzo(a,h)anthracene	0.51	13	ND	U
191-24-2	Benzo(g,h,i)perylene	0.58	13	0.74	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/7/2012

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB55-00-2.5-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-02A66
Analyst: 2650

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/17/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB55-00-2.5-3RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-02JA66
Analyst: 2730

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

X RE

ND = Not Detected
Q = Qualifier

FORM I SV-1

smk 8/17/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS54-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-03A66
Analyst: 2650

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	0.79	J
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	0.77	J
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/17/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS54-0-1RE

Lab Sample ID: 1005129-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Date Received: 05/13/10
Lab File ID: 1005129-03JA66
Analyst: 2730

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

UX RE

ND = Not Detected
Q = Qualifier

FORM I SV-1

5/27/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB54-4-5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-04J2C66
Analyst: 2743

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	ND	U
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.69	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMK 8/17/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS53-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-05
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-05JA66
Analyst: 2730

% Moisture: 25 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.96	11	ND	U
91-57-6	2-Methylnaphthalene	0.91	11	ND	U
208-96-8	Acenaphthylene	0.71	11	ND	U
83-32-9	Acenaphthene	0.80	11	ND	U
86-73-7	Fluorene	0.60	11	ND	U
85-01-8	Phenanthrene	1.8	11	ND	U
120-12-7	Anthracene	0.58	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.76	11	0.92	J
56-55-3	Benzo(a)anthracene	0.76	11	ND	U
218-01-9	Chrysene	0.84	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.76	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.58	11	0.80	J
50-32-8	Benzo(a)pyrene	0.51	11	0.53	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.49	11	0.56	J
53-70-3	Dibenzo(a,h)anthracene	0.44	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.51	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB53-7-8

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-06
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-06JC66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	ND	U
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

8/17/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS80-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-07
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-07JC66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	2.0	J
129-00-0	Pyrene	0.71	10	1.9	J
56-55-3	Benzo(a)anthracene	0.71	10	0.79	J
218-01-9	Chrysene	0.79	10	0.98	J
205-99-2	Benzo(b)fluoranthene	0.71	10	1.4	J
207-08-9	Benzo(k)fluoranthene	0.54	10	0.96	J
50-32-8	Benzo(a)pyrene	0.48	10	0.81	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	1.0	J
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	0.66	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB80-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-08
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-08JC66
Analyst: 2743

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/17/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS56-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-09
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-09JC66
Analyst: 2743

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	0.71	J
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	1.1	J
205-99-2	Benzo(b)fluoranthene	0.69	10	1.1	J
207-08-9	Benzo(k)fluoranthene	0.53	10	0.63	J
50-32-8	Benzo(a)pyrene	0.47	10	0.48	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	0.46	J
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	0.51	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB56-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-10
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-10JC66
Analyst: 2743

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	ND	U
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.69	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

smt 8/27/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS58-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-11
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-11JC66
Analyst: 2743

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	ND	U
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

6/17/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS52-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-12
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-12C66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	0.92	J
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	0.80	J
205-99-2	Benzo(b)fluoranthene	0.71	10	1.3	JX QJ
207-08-9	Benzo(k)fluoranthene	0.54	10	1.2	JX QJ
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 8/1/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS57-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-13
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-13C66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	ND	U
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS60-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-14
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-14C66
Analyst: 2743

% Moisture: 9 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.79	9.1	ND	U
91-57-6	2-Methylnaphthalene	0.75	9.1	ND	U
208-96-8	Acenaphthylene	0.59	9.1	ND	U
83-32-9	Acenaphthene	0.66	9.1	ND	U
86-73-7	Fluorene	0.49	9.1	ND	U
85-01-8	Phenanthrene	1.4	9.1	ND	U
120-12-7	Anthracene	0.48	9.1	ND	U
206-44-0	Fluoranthene	1.5	9.1	ND	U
129-00-0	Pyrene	0.62	9.1	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.1	ND	U
218-01-9	Chrysene	0.70	9.1	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.1	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.1	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.1	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.1	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.1	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.1	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMT 6/7/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS59-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-15
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-15C66
Analyst: 2743

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	0.98	J
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB59-9-10

Lab Sample ID: 1005129-16
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 22 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Date Received: 05/14/10
Lab File ID: 1005129-16C66
Analyst: 2743

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.92	11	ND	U
91-57-6	2-Methylnaphthalene	0.88	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.77	11	ND	U
86-73-7	Fluorene	0.58	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.56	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.73	11	ND	U
56-55-3	Benzo(a)anthracene	0.73	11	ND	U
218-01-9	Chrysene	0.81	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.73	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.56	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.47	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.43	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS85-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-17
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-17C66
Analyst: 2743

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	ND	U
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	ND	U
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	ND	U
120-12-7	Anthracene	0.48	9.2	ND	U
206-44-0	Fluoranthene	1.5	9.2	ND	U
129-00-0	Pyrene	0.63	9.2	ND	U
56-55-3	Benzo(a)anthracene	0.63	9.2	ND	U
218-01-9	Chrysene	0.70	9.2	ND	U
205-99-2	Benzo(b)fluoranthene	0.63	9.2	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.2	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.2	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 8/17/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS89-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-18
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-18C66
Analyst: 2743

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	13	
120-12-7	Anthracene	0.47	9.0	1.6	J
206-44-0	Fluoranthene	1.4	9.0	69	
129-00-0	Pyrene	0.62	9.0	52	
56-55-3	Benzo(a)anthracene	0.62	9.0	22	
218-01-9	Chrysene	0.69	9.0	32	
205-99-2	Benzo(b)fluoranthene	0.62	9.0	36	
207-08-9	Benzo(k)fluoranthene	0.47	9.0	32	
50-32-8	Benzo(a)pyrene	0.42	9.0	27	
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	23	
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	5.8	J
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	19	

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMT 8/7/2011

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB89-6.5-7.5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-19
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-19JA66
Analyst: 2730

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	ND	U
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	ND	U
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	ND	U
120-12-7	Anthracene	0.48	9.2	ND	U
206-44-0	Fluoranthene	1.5	9.2	ND	U
129-00-0	Pyrene	0.63	9.2	ND	U
56-55-3	Benzo(a)anthracene	0.63	9.2	ND	U
218-01-9	Chrysene	0.70	9.2	ND	U
205-99-2	Benzo(b)fluoranthene	0.63	9.2	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.2	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.2	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 8/17/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS78-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-20
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-20C66
Analyst: 2743

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	ND	U
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	1.6	J
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	6.0	J
129-00-0	Pyrene	0.61	8.9	4.9	J
56-55-3	Benzo(a)anthracene	0.61	8.9	2.7	J
218-01-9	Chrysene	0.68	8.9	3.9	J
205-99-2	Benzo(b)fluoranthene	0.61	8.9	4.2	J
207-08-9	Benzo(k)fluoranthene	0.47	8.9	4.4	J
50-32-8	Benzo(a)pyrene	0.41	8.9	3.6	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	3.6	J
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	1.0	J
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	3.2	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

6/17/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS55-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	0.27	J	
319-85-7	beta-BHC	1.3	U	
319-84-6	alpha-BHC	2.6	U	
319-86-8	delta-BHC	2.6	U	
58-89-9	gamma-BHC (Lindane)	2.6	U	
72-54-8	4,4'-DDD	5.0	U	
72-55-9	4,4'-DDE	5.0	U	
50-29-3	4,4'-DDT	5.0	U	
60-57-1	Dieldrin	5.0	U	
959-98-8	Endosulfan I	2.6	U	
33213-65-9	Endosulfan II	5.0	U	
1031-07-8	Endosulfan sulfate	5.0 ~~0.99 JP~~ U		2C
72-20-8	Endrin	5.0	U	
7421-93-4	Endrin Aldehyde	5.0	U	
76-44-8	Heptachlor	2.6	U	
1024-57-3	Heptachlor Epoxide	2.6	U	
72-43-5	Methoxychlor	26 ~~3.5 JP~~ U		2C
8001-35-2	Toxaphene	130	U	
53494-70-5	Endrin Ketone	5.0 ~~1.0 JP~~ U		2C
5103-74-2	gamma-Chlordane	2.6	U	
5103-71-9	alpha-Chlordane	2.6	U	

FORM I PEST

8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB55-00-2.5-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	0.67	J
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	0.25	~~JP~~ NJ
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

2C

FORM I PEST

SMT 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS54-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.8	U	
319-85-7	beta-BHC	0.93	~~0.48 JP~~	U	2C
319-84-6	alpha-BHC		1.8	U	
319-86-8	delta-BHC		1.8	U	
58-89-9	gamma-BHC (Lindane)		1.8	J	
72-54-8	4,4'-DDD		3.6	U	
72-55-9	4,4'-DDE	3.6	~~0.53 JP~~	U	2C
50-29-3	4,4'-DDT		3.6	U	
60-57-1	Dieldrin		~~JP~~ 0.46	NJ	2C
959-98-8	Endosulfan I		1.1	J	
33213-65-9	Endosulfan II		3.6	U	
1031-07-8	Endosulfan sulfate		2.0	J	
72-20-8	Endrin		3.6	U	
7421-93-4	Endrin Aldehyde		3.6	U	
76-44-8	Heptachlor	1.8	~~0.19 JP~~	U	2C
1024-57-3	Heptachlor Epoxide		1.8	U	
72-43-5	Methoxychlor		18	U	
8001-35-2	Toxaphene		90	U	
53494-70-5	Endrin Ketone		3.6	U	
5103-74-2	gamma-Chlordane	1.8	~~0.36 JBP~~	U	MBL
5103-71-9	alpha-Chlordane	1.8	~~0.82 JP~~	U	2C

FORM I PEST

SM 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB54-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.0	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	0.85	JP
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

2C

8/26/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.3	U	
319-85-7	beta-BHC	1.1	U	
319-84-6	alpha-BHC	2.3	U	
319-86-8	delta-BHC	~~0.90~~ 2.3	~~JP~~ U	2C
58-89-9	gamma-BHC (Lindane)	~~0.95~~ 2.3	~~JP~~ U	2C
72-54-8	4,4'-DDD	~~2.0~~ 4.4	~~JP~~ U	2C
72-55-9	4,4'-DDE	4.4	U	
50-29-3	4,4'-DDT	4.4	U	
60-57-1	Dieldrin	4.4	U	
959-98-8	Endosulfan I	~~1.2~~ 2.3	~~JP~~ U	2C
33213-65-9	Endosulfan II	4.4	U	
1031-07-8	Endosulfan sulfate	20		
72-20-8	Endrin	3.5	~~JP~~ NJ	2C
7421-93-4	Endrin Aldehyde	4.4	U	
76-44-8	Heptachlor	0.48	J	
1024-57-3	Heptachlor Epoxide	2.3	U	
72-43-5	Methoxychlor	23	U	
8001-35-2	Toxaphene	110	U	
53494-70-5	Endrin Ketone	U 5C 5.4	~~P~~ NX	2C, AA
5103-74-2	gamma-Chlordane	~~1.1~~ 2.3	~~JBP~~ U	MBC
5103-71-9	alpha-Chlordane	~~0.68~~ 2.3	~~JP~~ U	2C

FORM I PEST

SM 6/4/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-05RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	11	U
319-85-7	beta-BHC	5.7	U
319-84-6	alpha-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
72-54-8	4,4'-DDD	22	U
72-55-9	4,4'-DDE	22	U
50-29-3	4,4'-DDT	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	11	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	21	DJ
72-20-8	Endrin	22	U
7421-93-4	Endrin Aldehyde	22	U
76-44-8	Heptachlor	11	U
1024-57-3	Heptachlor Epoxide	11	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	550	U
53494-70-5	Endrin Ketone	22	U
5103-74-2	gamma-Chlordane	11	U
5103-71-9	alpha-Chlordane	3.6	DJ

X DL

FORM I PEST

SMK 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB53-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		2.2	U	
319-85-7	beta-BHC		1.1	U	
319-84-6	alpha-BHC		2.2	U	
319-86-8	delta-BHC		2.2	U	
58-89-9	gamma-BHC (Lindane)	2.2	~~0.35~~ ~~JP~~	U	2C
72-54-8	4,4'-DDD		2.2	U	
72-55-9	4,4'-DDE		4.2	U	
50-29-3	4,4'-DDT		4.2	U	
60-57-1	Dieldrin		4.2	U	
959-98-8	Endosulfan I		0.69	J	
33213-65-9	Endosulfan II		2.0	J	2C
1031-07-8	Endosulfan sulfate		0.71	~~JP~~ NJ	2C
72-20-8	Endrin		4.2	U	
7421-93-4	Endrin Aldehyde		4.2	U	
76-44-8	Heptachlor		1.3	J	
1024-57-3	Heptachlor Epoxide		0.51	J	
72-43-5	Methoxychlor		2.2	U	
8001-35-2	Toxaphene		120		
53494-70-5	Endrin Ketone		110	U	
5103-74-2	gamma-Chlordane		4.2	U	
5103-71-9	alpha-Chlordane	2.2	~~0.24~~ ~~JBP~~	U	2C
			0.62	~~JP~~ NJ	2C

FORM I PEST

SML 8/17/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS80-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin		1.4	J
319-85-7	beta-BHC		1.1	U
319-84-6	alpha-BHC		2.1	U
319-86-8	delta-BHC	2.1	~~1.8 JP~~ U	2C
58-89-9	gamma-BHC (Lindane)		2.1	U
72-54-8	4,4'-DDD		2.3	J
72-55-9	4,4'-DDE		11	
50-29-3	4,4'-DDT		~~85 P~~ X	LR
60-57-1	Dieldrin	4.1	~~1.5 JP~~ U	2C
959-98-8	Endosulfan I	2.1	~~0.76 JP~~ U	2C
33213-65-9	Endosulfan II		~~5.1 P~~ U	2C
1031-07-8	Endosulfan sulfate		4.1	U
72-20-8	Endrin	4.1	~~0.85 JP~~ U	2C
7421-93-4	Endrin Aldehyde		4.1	U
76-44-8	Heptachlor		2.1	U
1024-57-3	Heptachlor Epoxide		2.1	U
72-43-5	Methoxychlor		21	U
8001-35-2	Toxaphene		100	U
53494-70-5	Endrin Ketone	4.1	~~0.62 JP~~ U	2C
5103-74-2	gamma-Chlordane		~~11 BP~~ U	2C
5103-71-9	alpha-Chlordane		~~6.3 P~~ NJ	2C

FORM I PEST

SM 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS80-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-07RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	21	U
319-85-7	beta-BHC	11	U
319-84-6	alpha-BHC	21	U
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	21	U
72-54-8	4,4'-DDD	41	U
72-55-9	4,4'-DDE	10	DJ
50-29-3	4,4'-DDT	81	DJ
60-57-1	Dieldrin	41	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	25	DJ
1031-07-8	Endosulfan sulfate	41	U
72-20-8	Endrin	11	DJ
7421-93-4	Endrin Aldehyde	41	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor Epoxide	21	U
72-43-5	Methoxychlor	210	U
8001-35-2	Toxaphene	1000	U
53494-70-5	Endrin Ketone	41	U
5103-74-2	gamma-Chlordane	8.1	DJB
5103-71-9	alpha-Chlordane	6.2	DJB

DC

DC

FORM I PEST

SMK 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB80-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		2.0	U	
319-85-7	beta-BHC		0.99	U	
319-84-6	alpha-BHC		2.0	U	
319-86-8	delta-BHC		2.0	U	
58-89-9	gamma-BHC (Lindane)		2.0	U	
72-54-8	4,4'-DDD		3.8	U	
72-55-9	4,4'-DDE		2.0	J	
50-29-3	4,4'-DDT		2.9	J	
60-57-1	Dieldrin		3.8	U	
959-98-8	Endosulfan I		2.0	U	
33213-65-9	Endosulfan II		3.8	U	
1031-07-8	Endosulfan sulfate		3.8	U	
72-20-8	Endrin		3.8	U	
7421-93-4	Endrin Aldehyde		3.8	U	
76-44-8	Heptachlor	0.38	~~0.38~~	~~J~~	~~NJ~~ ~~3X~~
1024-57-3	Heptachlor Epoxide		2.0	U	
72-43-5	Methoxychlor		20	U	
8001-35-2	Toxaphene		97	U	
53494-70-5	Endrin Ketone		3.8	U	
5103-74-2	gamma-Chlordane	2.0	~~0.45 JB~~	U	MBC ~~3X~~
5103-71-9	alpha-Chlordane		~~0.34NJ~~		

FORM I PEST

SMA 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS56-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/30/10

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin	2.1	U	
319-85-7	beta-BHC	1.1	J	2C
319-84-6	alpha-BHC	2.1	U	
319-86-8	delta-BHC	~~1.1~~	~~JP~~ U	2C
58-89-9	gamma-BHC (Lindane)	1.6	JP U	2C
72-54-8	4,4'-DDD	4.0	U	
72-55-9	4,4'-DDE	~~1.1~~	~~JP~~ U	2C
50-29-3	4,4'-DDT	4.0	U	
60-57-1	Dieldrin	1.4	J	
959-98-8	Endosulfan I	1.6	U	2C
33213-65-9	Endosulfan II	4.0	U	
1031-07-8	Endosulfan sulfate	1.4	J	
72-20-8	Endrin	4.0	U	
7421-93-4	Endrin Aldehyde	~~0.66~~	~~JP~~ U	2C
76-44-8	Heptachlor	0.39	JP NJ	2C 2C
1024-57-3	Heptachlor Epoxide	2.1	U	
72-43-5	Methoxychlor	21	U	
8001-35-2	Toxaphene	100	U	
53494-70-5	Endrin Ketone	4.0	U	
5103-74-2	gamma-Chlordane	~~0.65~~	~~JB~~ U	MBL
5103-71-9	alpha-Chlordane	1.7	J	

FORM I PEST

SMA 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB56-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.0	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

SMM 5/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS58-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.90	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.22	J
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

SMM 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS52-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	4.1	U
33213-65-9	Endosulfan II	2.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1 / 0.61 JP	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	4.1	U
1024-57-3	Heptachlor Epoxide	0.26 J	~~UJ~~
72-43-5	Methoxychlor	2.1	U
8001-35-2	Toxaphene	21	U
53494-70-5	Endrin Ketone	100	U
5103-74-2	gamma-Chlordane	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
		2.1	U

FORM I PEST

8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS57-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.2	U	
319-85-7	beta-BHC	1.1	U	
319-84-6	alpha-BHC	2.2	U	
319-86-8	delta-BHC	2.2	U	
58-89-9	gamma-BHC (Lindane)	2.2	U	
72-54-8	4,4'-DDD	4.2	U	
72-55-9	4,4'-DDE	4.2	U	
50-29-3	4,4'-DDT	4.2	U	
60-57-1	Dieldrin	4.2	U	
959-98-8	Endosulfan I	2.2	U	
33213-65-9	Endosulfan II	4.2	U	
1031-07-8	Endosulfan sulfate	4.4	~~P~~ U	2C
72-20-8	Endrin	4.2	U	
7421-93-4	Endrin Aldehyde	4.2	U	
76-44-8	Heptachlor	0.47	~~N~~ J	~~2C~~
1024-57-3	Heptachlor Epoxide	2.2	U	
72-43-5	Methoxychlor	22	U	
8001-35-2	Toxaphene	110	U	
53494-70-5	Endrin Ketone	4.2 1.1	~~JP~~ U	2C
5103-74-2	gamma-Chlordane	2.2	U	
5103-71-9	alpha-Chlordane	2.2	U	

FORM I PEST

SMM 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS60-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.9	U	
319-85-7	beta-BHC		0.94	U	
319-84-6	alpha-BHC		0.43	~~J~~ UJ	2C
319-86-8	delta-BHC		1.9	U	
58-89-9	gamma-BHC (Lindane)		1.9	U	
72-54-8	4,4'-DDD		3.6	U	
72-55-9	4,4'-DDE		3.6	U	
50-29-3	4,4'-DDT		0.82	J	
60-57-1	Dieldrin		0.49	~~JP~~ UJ	2C
959-98-8	Endosulfan I	1.9	~~0.21~~	~~JP~~ U	2C
33213-65-9	Endosulfan II		3.6	U	
1031-07-8	Endosulfan sulfate		5.1	~~P~~ U	2C
72-20-8	Endrin		3.6	U	
7421-93-4	Endrin Aldehyde		1.1	~~JP~~ UJ	2C
76-44-8	Heptachlor		0.23	~~JP~~ UJ	2C
1024-57-3	Heptachlor Epoxide		0.20	~~JP~~ UJ	2C
72-43-5	Methoxychlor		24	~~P~~ U	2C
8001-35-2	Toxaphene		91	U	
53494-70-5	Endrin Ketone		13		
5103-74-2	gamma-Chlordane		1.9	U	
5103-71-9	alpha-Chlordane	1.9	~~0.22~~	~~JP~~ U	2C

FORM I PEST

SMM 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS60-00-01DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-14RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/03/10

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	9.3	U	X
319-85-7	beta-BHC	4.7	U	
319-84-6	alpha-BHC	9.3	U	
319-86-8	delta-BHC	9.3	U	
58-89-9	gamma-BHC (Lindane)	9.3	U	
72-54-8	4,4'-DDD	18	U	
72-55-9	4,4'-DDE	18	U	
50-29-3	4,4'-DDT	18	U	
60-57-1	Dieldrin	18	U	
959-98-8	Endosulfan I	9.3	U	
33213-65-9	Endosulfan II	18	U	
1031-07-8	Endosulfan sulfate	18	U	
72-20-8	Endrin	18	U	
7421-93-4	Endrin Aldehyde	18	U	
76-44-8	Heptachlor	9.3	U	
1024-57-3	Heptachlor Epoxide	9.3	U	
72-43-5	Methoxychlor	93	U	
8001-35-2	Toxaphene	460	U	
53494-70-5	Endrin Ketone	18	U	
5103-74-2	gamma-Chlordane	9.3	U	
5103-71-9	alpha-Chlordane	9.3	U	

DL

SMM 8/17/2010

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS59-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 05/30/10

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	0.24	~~0.24~~ ~~JP~~	~~NT~~ 2C
319-85-7	beta-BHC	0.90	U	
319-84-6	alpha-BHC	1.8	U	
319-86-8	delta-BHC	1.8	~~0.54~~ ~~JP~~ U	2C
58-89-9	gamma-BHC (Lindane)	1.8	U	
72-54-8	4,4'-DDD	3.5	U	
72-55-9	4,4'-DDE	3.5	U	
50-29-3	4,4'-DDT	3.5	U	
60-57-1	Dieldrin	3.5	U	
959-98-8	Endosulfan I	3.5	U	
33213-65-9	Endosulfan II	1.8	U	
1031-07-8	Endosulfan sulfate	3.5	U	
72-20-8	Endrin	3.2	J	
7421-93-4	Endrin Aldehyde	3.5	U	
76-44-8	Heptachlor	3.5	U	
1024-57-3	Heptachlor Epoxide	1.8	~~0.25~~ ~~JP~~ U	2C
72-43-5	Methoxychlor	1.8	U	
8001-35-2	Toxaphene	18	U	
53494-70-5	Endrin Ketone	87	U	
5103-74-2	gamma-Chlordane	3.5	U	
5103-71-9	alpha-Chlordane	1.8	U	
		1.8	U	

SMM 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB59-9-10

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.2	U	
319-85-7	beta-BHC	1.1	U	
319-84-6	alpha-BHC	2.2	U	
319-86-8	delta-BHC	2.2	U	
58-89-9	gamma-BHC (Lindane)	2.2	U	
72-54-8	4,4'-DDD	~~0.41~~	~~JP~~ U	2C
72-55-9	4,4'-DDE	4.2	U	
50-29-3	4,4'-DDT	4.2	~~JP~~ U	2C
60-57-1	Dieldrin	4.2	U	
959-98-8	Endosulfan I	1.2	~~JP~~ NJ	2C
33213-65-9	Endosulfan II	2.2	~~JP~~ U	2C
1031-07-8	Endosulfan sulfate	4.2	U	
72-20-8	Endrin	4.2	U	
7421-93-4	Endrin Aldehyde	4.2	~~JP~~ U	2C
76-44-8	Heptachlor	0.52	J	
1024-57-3	Heptachlor Epoxide	2.2	~~JP~~ U	2C
72-43-5	Methoxychlor	2.2	U	
8001-35-2	Toxaphene	22	U	
53494-70-5	Endrin Ketone	110	U	
5103-74-2	gamma-Chlordane	4.2	U	
5103-71-9	alpha-Chlordane	~~0.91~~ 6.6	~~JBP~~ U	MBL

FORM I PEST

SMR 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS85-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.95	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	0.22	~~JP~~ JT
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

2C

FORM I PEST

8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS89-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin		1.8	U
319-85-7	beta-BHC		1.7 ~~P~~	N
319-84-6	alpha-BHC		1.8	U
319-86-8	delta-BHC		1.8	U
58-89-9	gamma-BHC (Lindane)		1.8	U
72-54-8	4,4'-DDD		3.6	U
72-55-9	4,4'-DDE		3.6	U
50-29-3	4,4'-DDT	3.6	~~2.5 JP~~	U
60-57-1	Dieldrin	3.6	~~2.0 JP~~	U
959-98-8	Endosulfan I		1.8	U
33213-65-9	Endosulfan II		16	
1031-07-8	Endosulfan sulfate		3.6	U
72-20-8	Endrin	3.6	~~0.40 JP~~	U
7421-93-4	Endrin Aldehyde		3.6	U
76-44-8	Heptachlor		1.8	U
1024-57-3	Heptachlor Epoxide		1.8	U
72-43-5	Methoxychlor		2.6	J
8001-35-2	Toxaphene		90	U
53494-70-5	Endrin Ketone		3.6	U
5103-74-2	gamma-Chlordane	1.8	~~1.3 JBP~~	U
5103-71-9	alpha-Chlordane		1.8	U

FORM I PEST

SMM 8/16/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS89-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-18RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/03/10

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	9.2	U
319-85-7	beta-BHC	4.6	U
319-84-6	alpha-BHC	9.2	U
319-86-8	delta-BHC	9.2	U
58-89-9	gamma-BHC (Lindane)	9.2	U
72-54-8	4,4'-DDD	18	U
72-55-9	4,4'-DDE	2.2	DJP
50-29-3	4,4'-DDT	3.1	DJ
60-57-1	Dieldrin	2.2	DJP
959-98-8	Endosulfan I	1.6	DJ
33213-65-9	Endosulfan II	19	D
1031-07-8	Endosulfan sulfate	18	U
72-20-8	Endrin	4.4	DJ
7421-93-4	Endrin Aldehyde	18	U
76-44-8	Heptachlor	9.2	U
1024-57-3	Heptachlor Epoxide	9.2	U
72-43-5	Methoxychlor	92	U
8001-35-2	Toxaphene	450	U
53494-70-5	Endrin Ketone	18	U
5103-74-2	gamma-Chlordane	9.2	U
5103-71-9	alpha-Chlordane	9.2	U

X DL

FORM I PEST

SMM 8/16/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB89-6.5-7.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.9	U	
319-85-7	beta-BHC		0.95	U	
319-84-6	alpha-BHC		1.9	U	
319-86-8	delta-BHC		1.9	U	
58-89-9	gamma-BHC (Lindane)		1.9	U	
72-54-8	4,4'-DDD		3.7	U	
72-55-9	4,4'-DDE		3.7	U	
50-29-3	4,4'-DDT		3.7	U	
60-57-1	Dieldrin	3.7	~~1.4~~ ~~JP~~	U	2C
959-98-8	Endosulfan I		1.9	U	
33213-65-9	Endosulfan II	3.7	~~0.40~~ ~~JP~~	U	2C
1031-07-8	Endosulfan sulfate		3.7	U	
72-20-8	Endrin		3.7	U	
7421-93-4	Endrin Aldehyde		3.7	U	
76-44-8	Heptachlor		1.9	U	
1024-57-3	Heptachlor Epoxide		1.9	U	
72-43-5	Methoxychlor		19	U	
8001-35-2	Toxaphene		92	U	
53494-70-5	Endrin Ketone		3.7	U	
5103-74-2	gamma-Chlordane		1.9	U	
5103-71-9	alpha-Chlordane		1.9	U	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS78-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin	1.8		U	
319-85-7	beta-BHC	0.92		U	
319-84-6	alpha-BHC	1.8		U	
319-86-8	delta-BHC	1.8		U	
58-89-9	gamma-BHC (Lindane)	1.8		U	
72-54-8	4,4'-DDD	3.5		U	
72-55-9	4,4'-DDE	4.0			
50-29-3	4,4'-DDT	3.5	~~1.4 JP~~	~~U~~	2C
60-57-1	Dieldrin	3.5		U	
959-98-8	Endosulfan I	1.8		U	
33213-65-9	Endosulfan II	3.5		U	
1031-07-8	Endosulfan sulfate	3.5		U	
72-20-8	Endrin	3.5		U	
7421-93-4	Endrin Aldehyde	3.5		U	
76-44-8	Heptachlor	1.8	~~0.42 JP~~	~~U~~	2C
1024-57-3	Heptachlor Epoxide		~~0.46 JP~~	~~U~~	2C
72-43-5	Methoxychlor	1.8		U	
8001-35-2	Toxaphene	18		U	
53494-70-5	Endrin Ketone	89		U	
5103-74-2	gamma-Chlordane	3.5		U	
5103-71-9	alpha-Chlordane	1.8		U	
		1.8	~~0.47 JP~~	~~U~~	2C

FORM I PEST

SMK 8/16/2010

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following compounds were detected in associated laboratory method and/or field blanks.

Blank	Compound	Concentration (µg/Kg)	Associated Samples
PBLKBD	gamma-Chlordane	0.79	All Samples

The gamma-chlordane results for samples BBG-SS54-0-1-10B, BBG-SS53-0-1-10B, BBG-SB80-3-4-10B, BBG-SS56-0-1-10B, BBG-SB59-9-10-10B, and BBG-SS89-0-1-10B are qualitatively invalid due to the presence of this compound in the associated laboratory method blank. USEPA protocol

requires positive results for uncommon contaminants, such as gamma-chlordane, that are less than or equal to five times the associated blank contamination level, to be considered qualitatively invalid. The result for the sample is less than the reporting limit (RL). It has been replaced with the RL and marked "U".

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 FIELD DUPLICATE RESULTS

There were no field duplicate samples submitted with this SDG.

10.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

11.0 INTERNAL STANDARD PERFORMANCE

Area counts for the internal standard compounds were below acceptance limits for the analyses of the following samples. The low area counts may be due to the presence of matrix interferences for these samples. All samples were re-analyzed and confirmed the unacceptable internal standard areas. The analysis run used for reporting purposes is indicated. The results for compounds that were quantitated using these internal standard compounds should be considered quantitative estimates. Placing "J" qualifiers next to positive results for affected compounds has indicated this. The RLs for nondetected compounds have been marked "UJ".

Sample	Unacceptable Internal Standard(s)	Run Used For Reporting	Qualified Results
BBG-SB55-2.5-3-10B	All Internal Standards	Initial	All Results
BBG-SS54-0-1-10B	All Internal Standards	Initial	All Results
BBG-SS53-0-1-10B	All Internal Standards	Initial	All Results

12.0 QUALITATIVE IDENTIFICATION

Positive results were reported for benzo (b) fluoranthene and benzo (k) fluoranthene for sample BBG-SS52-0-1-10B. These compounds are isomers with nearly identical mass spectra. Because the isomers cannot be resolved on the chromatographic columns used for analysis, the concentrations reported actually represent total concentrations of benzo (b) fluoranthene and/or benzo (k) fluoranthene. This should be noted when assessing the data.

13.0 QUANTITATION/REPORTING LIMITS

The following samples were re-analyzed at dilutions for pesticide compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
BBG-SS80-0-1-10B	10.0	4,4'-DDT

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB53-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		2.2	U	
319-85-7	beta-BHC		1.1	U	
319-84-6	alpha-BHC		2.2	U	
319-86-8	delta-BHC		2.2	U	
58-89-9	gamma-BHC (Lindane)	2.2	~~0.35~~	~~JP~~ U	2C
72-54-8	4,4'-DDD		2.2	U	
72-55-9	4,4'-DDE		4.2	U	
50-29-3	4,4'-DDT		4.2	U	
60-57-1	Dieldrin		4.2	U	
959-98-8	Endosulfan I		0.69	J	
33213-65-9	Endosulfan II		2.0	J	~~2C~~ SML 2C 9.14.2010
1031-07-8	Endosulfan sulfate		0.71	~~JP~~ NJ	
72-20-8	Endrin		4.2	U	
7421-93-4	Endrin Aldehyde		4.2	U	
76-44-8	Heptachlor		1.3	J	
1024-57-3	Heptachlor Epoxide		0.51	J	
72-43-5	Methoxychlor		2.2	U	
8001-35-2	Toxaphene		120		
53494-70-5	Endrin Ketone		110	U	
5103-74-2	gamma-Chlordane		4.2	U	
5103-71-9	alpha-Chlordane	2.2	~~0.24~~	~~JBP~~ U	2C
			0.62	~~JP~~ NJ	2C

FORM I PEST

SML 8/17/2010

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005130
Fraction: Organic
Matrix: Solid
Report Date: 8/30/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. One matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

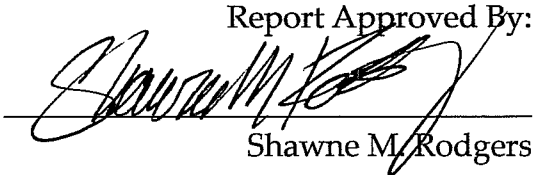
This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawne M. Rodgers
President

8/30/2010

Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

The positive results and reporting limits (RLs) for polynuclear aromatic hydrocarbons for sample BBG-SB48-7-8-10B should be considered biased quantitative estimates, and may be higher than reported. The laboratory re-extracted this sample 7 days outside of the technical holding time of 14 days. Because the sample was re-extracted outside of holding times, biological or chemical degradation may have occurred. Positive results for polynuclear aromatic hydrocarbons have been marked with "J" qualifiers to indicate that they are quantitative estimates. RLs have been marked "UJ".

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

All criteria were met. No qualifiers were applied.

7.0 *SURROGATE COMPOUNDS*

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

There wer no field duplicate samples submitted with this SDG.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-SS49-0-1-10B	Beta-BHC
BBG-SS50-0-1-10B	Heptachlor, Heptachlor Epoxide,
BBG-SS47-0-1-10B	Heptachlor Epoxide,

BBG-SB48-7-8-10B	Beta-BHC
BBG-SB18-12-13-10B	Beta-BHC

Poor precision (greater than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

Sample	Affected Compounds
BBG-SS23-00-01-10B	beta-BHC
BBG-SS23-0-1-10B	beta-BHC
BBG-SB49-11-12-10B	beta-BHC
BBG-SS50-0-1-10B	beta-BHC Sulfate, Endrin, Endrin Ketone, gamma-Chlordane
BBG-SB47-14-15-10B	Alpha-BHC, delta-BHC, gamma-BHC
BBG-SB11-11-12-10B	delta-BHC
BBG-SS48-0-1-10B	beta-BHC
BBG-SS18-0-1-10B	beta-BHC
BBG-SS25-0-1-10B	Delta-BHC, 4,4'-DDT, Endosulfan I, Endrin, gamma-Chlordane
BBG-SB25-3-4-10B	Gamma-Chlordane
BBG-SS08-0-1-10B	Heptachlor, Heptachlor Epoxide, gamma-Chlordane

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Polynuclear Aromatic Hydrocarbons	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Pesticide Compounds	Method 8081A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS23-00-01-10B	1005130	1005130-01	5/10/2010	Soil			X			
BBG-SS23-0-1-10B	1005130	1005130-01	5/10/2010	Soil	X	X				X
BBG-SB23-1.5-2-10B	1005130	1005130-02	5/10/2010	Soil	X	X	X			X
BBG-SS24-0-1-10B	1005130	1005130-03	5/11/2010	Soil	X	X	X			X
BBG-SB24-3-4-10B	1005130	1005130-04	5/11/2010	Soil	X	X	X			X
BBG-SS49-0-1-10B	1005130	1005130-05	5/11/2010	Soil	X	X	X			X
BBG-SB49-11-12-10B	1005130	1005130-06	5/11/2010	Soil	X	X	X			X
BBG-SS50-0-1-10B	1005130	1005130-07	5/11/2010	Soil	X	X	X			X
BBG-SB47-14-15-10B	1005130	1005130-08	5/12/2010	Soil	X	X	X			X
BBG-SS47-0-1-10B	1005130	1005130-09	5/12/2010	Soil	X	X	X			X
BBG-SS11-0-1-10B	1005130	1005130-10	5/12/2010	Soil	X	X	X			X
BBG-SB11-11-12-10B	1005130	1005130-11	5/12/2010	Soil	X	X	X			X
BBG-SB48-7-8-10B	1005130	1005130-12	5/12/2010	Soil	X	X	X			X
BBG-SS48-0-1-10B	1005130	1005130-13	5/12/2010	Soil	X	X	X			X
BBG-SS18-0-1-10B	1005130	1005130-14	5/12/2010	Soil	X	X	X			X
BBG-SB18-12-13-10B	1005130	1005130-15	5/12/2010	Soil	X	X	X			X
BBG-SS25-0-1-10B	1005130	1005130-16	5/13/2010	Soil	X	X	X			X
BBG-SB25-3-4-10B	1005130	1005130-17	5/12/2010	Soil	X	X	X			X
BBG-SS08-0-1-10B	1005130	1005130-18	5/13/2010	Soil	X	X	X			X
BBG-SB08-6-7-10B	1005130	1005130-19	5/13/2010	Soil	X	X	X			X
BBG-SS05-0-1-10B	1005130	1005130-20	5/14/2010	Soil	X	X	X			X

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB08-6-7

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-19
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-19C66
Analyst: 2743

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	ND	U
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SML 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB08-6-7RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-19RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-19RJA66
Analyst: MEW

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	1.4	JBX RE
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB11-11-12

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-11
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-11C66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMT 8/19/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB11-11-12RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-11RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-11REJ2A66
Analyst: 2650

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

X RE

FORM I SV-1

8/19/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB18-12-13

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-15
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-15C66
Analyst: 2743

% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	ND	U
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	9.9	ND	U
50-32-8	Benzo(a)pyrene	0.46	9.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Smt 6/9/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB18-12-13RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-15RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-15RJA66
Analyst: MEW

% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	0.90	JBXRE
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	9.9	ND	U
50-32-8	Benzo(a)pyrene	0.46	9.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMC 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB23-1.5-2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/10/10

Lab Sample ID: 1005130-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-02J2C66
Analyst: 2743

% Moisture: 19 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.88	10	ND	U
91-57-6	2-Methylnaphthalene	0.84	10	ND	U
208-96-8	Acenaphthylene	0.66	10	ND	U
83-32-9	Acenaphthene	0.74	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.70	10	ND	U
56-55-3	Benzo(a)anthracene	0.70	10	ND	U
218-01-9	Chrysene	0.78	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.70	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB24-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-04C66
Analyst: 2743

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	ND	U
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB25-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-17
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-17C66
Analyst: 2743

% Moisture: 6 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.76	8.8	ND	U
91-57-6	2-Methylnaphthalene	0.73	8.8	ND	U
208-96-8	Acenaphthylene	0.57	8.8	ND	U
83-32-9	Acenaphthene	0.64	8.8	ND	U
86-73-7	Fluorene	0.48	8.8	ND	U
85-01-8	Phenanthrene	1.4	8.8	ND	U
120-12-7	Anthracene	0.46	8.8	ND	U
206-44-0	Fluoranthene	1.4	8.8	ND	U
129-00-0	Pyrene	0.60	8.8	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.8	ND	U
218-01-9	Chrysene	0.67	8.8	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.8	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.8	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.8	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.8	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.8	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.8	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB47-14-15

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-08
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-08C66
Analyst: 2743

% Moisture: 31 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.0	12	ND	U
91-57-6	2-Methylnaphthalene	0.99	12	ND	U
208-96-8	Acenaphthylene	0.77	12	ND	U
83-32-9	Acenaphthene	0.87	12	ND	U
86-73-7	Fluorene	0.65	12	ND	U
85-01-8	Phenanthrene	1.9	12	3.6	J
120-12-7	Anthracene	0.63	12	ND	U
206-44-0	Fluoranthene	1.9	12	ND	U
129-00-0	Pyrene	0.82	12	ND	U
56-55-3	Benzo(a)anthracene	0.82	12	ND	U
218-01-9	Chrysene	0.92	12	ND	U
205-99-2	Benzo(b)fluoranthene	0.82	12	ND	U
207-08-9	Benzo(k)fluoranthene	0.63	12	ND	U
50-32-8	Benzo(a)pyrene	0.56	12	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.53	12	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.48	12	ND	U
191-24-2	Benzo(g,h,i)perylene	0.56	12	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 6/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB48-7-8

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-12
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-12JC66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	ND	U
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SML 6/9/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB48-7-8RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-12RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-12RE1JA66
Analyst: OWS

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	~~1.8~~ U	~~JB~~
91-57-6	2-Methylnaphthalene	0.86	11	ND	UJ
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	3.0	J
120-12-7	Anthracene	0.55	11	ND	U J
206-44-0	Fluoranthene	1.7	11	3.9	J
129-00-0	Pyrene	0.72	11	2.9	J
56-55-3	Benzo(a)anthracene	0.72	11	1.8	J
218-01-9	Chrysene	0.80	11	2.8	J
205-99-2	Benzo(b)fluoranthene	0.72	11	1.3	J
207-08-9	Benzo(k)fluoranthene	0.55	11	1.1	J
50-32-8	Benzo(a)pyrene	0.49	11	0.86	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	0.61	J
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	0.66	J

ND = Not Detected
Q = Qualifier

MBC HT

FORM I SV-1

6/29/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB49-11-12

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-06
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-06J2C66
Analyst: 2743

% Moisture: 24 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.94	11	ND	U
91-57-6	2-Methylnaphthalene	0.90	11	ND	U
208-96-8	Acenaphthylene	0.70	11	ND	U
83-32-9	Acenaphthene	0.79	11	ND	U
86-73-7	Fluorene	0.59	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.57	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.75	11	ND	U
56-55-3	Benzo(a)anthracene	0.75	11	ND	U
218-01-9	Chrysene	0.83	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.75	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.57	11	ND	U
50-32-8	Benzo(a)pyrene	0.50	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.48	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.44	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.50	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB49-11-12RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-06RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-06REJ2A66
Analyst: 2650

% Moisture: 24 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.94	11	1.2	JBX RE
91-57-6	2-Methylnaphthalene	0.90	11	ND	U
208-96-8	Acenaphthylene	0.70	11	ND	U
83-32-9	Acenaphthene	0.79	11	ND	U
86-73-7	Fluorene	0.59	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.57	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.75	11	ND	U
56-55-3	Benzo(a)anthracene	0.75	11	ND	U
218-01-9	Chrysene	0.83	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.75	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.57	11	ND	U
50-32-8	Benzo(a)pyrene	0.50	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.48	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.44	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.50	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

7/19/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS05-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005130-20
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-20C66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	0.64	J
85-01-8	Phenanthrene	1.7	11	15	
120-12-7	Anthracene	0.55	11	2.8	J
206-44-0	Fluoranthene	1.7	11	41	
129-00-0	Pyrene	0.72	11	27	
56-55-3	Benzo(a)anthracene	0.72	11	17	
218-01-9	Chrysene	0.80	11	17	
205-99-2	Benzo(b)fluoranthene	0.72	11	17	
207-08-9	Benzo(k)fluoranthene	0.55	11	13	
50-32-8	Benzo(a)pyrene	0.49	11	12	
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	9.5	J
53-70-3	Dibenzo(a,h)anthracene	0.42	11	2.7	J
191-24-2	Benzo(g,h,i)perylene	0.49	11	7.4	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS05-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005130-20RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-20RJA66
Analyst: MEW

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	2.1	JB X RE
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	0.87	J
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	0.85	J
205-99-2	Benzo(b)fluoranthene	0.72	11	0.79	J
207-08-9	Benzo(k)fluoranthene	0.55	11	0.73	J
50-32-8	Benzo(a)pyrene	0.49	11	0.60	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS08-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-18
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-18C66
Analyst: 2743

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	ND	U
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	ND	U
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	ND	U
120-12-7	Anthracene	0.48	9.2	1.2	J
206-44-0	Fluoranthene	1.5	9.2	3.0	J
129-00-0	Pyrene	0.63	9.2	3.9	J
56-55-3	Benzo(a)anthracene	0.63	9.2	2.1	J
218-01-9	Chrysene	0.70	9.2	5.7	J
205-99-2	Benzo(b)fluoranthene	0.63	9.2	7.4	J
207-08-9	Benzo(k)fluoranthene	0.48	9.2	4.9	J
50-32-8	Benzo(a)pyrene	0.43	9.2	2.0	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	3.2	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	2.6	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 6/9/2010

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS11-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-10
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-10C66
Analyst: 2743

% Moisture: 4 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.6	ND	U
91-57-6	2-Methylnaphthalene	0.71	8.6	ND	U
208-96-8	Acenaphthylene	0.56	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.47	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	ND	U
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	ND	U
129-00-0	Pyrene	0.59	8.6	ND	U
56-55-3	Benzo(a)anthracene	0.59	8.6	ND	U
218-01-9	Chrysene	0.66	8.6	ND	U
205-99-2	Benzo(b)fluoranthene	0.59	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 6/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS18-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-14
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-14C66
Analyst: 2743

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SML 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS23-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/10/10

Lab Sample ID: 1005130-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-01JC66
Analyst: 2743

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	0.89	J
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	0.60	J
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	1.5	J
120-12-7	Anthracene	0.48	9.2	0.55	J
206-44-0	Fluoranthene	1.5	9.2	ND	U
129-00-0	Pyrene	0.63	9.2	1.5	J
56-55-3	Benzo(a)anthracene	0.63	9.2	0.92	J
218-01-9	Chrysene	0.70	9.2	1.2	J
205-99-2	Benzo(b)fluoranthene	0.63	9.2	1.8	J
207-08-9	Benzo(k)fluoranthene	0.48	9.2	0.99	J
50-32-8	Benzo(a)pyrene	0.43	9.2	1.0	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	1.9	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	2.6	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SML 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS24-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-03C66
Analyst: 2743

% Moisture: 11 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.3	ND	U
91-57-6	2-Methylnaphthalene	0.77	9.3	ND	U
208-96-8	Acenaphthylene	0.60	9.3	ND	U
83-32-9	Acenaphthene	0.67	9.3	ND	U
86-73-7	Fluorene	0.51	9.3	0.65	J
85-01-8	Phenanthrene	1.5	9.3	3.1	J
120-12-7	Anthracene	0.49	9.3	0.70	J
206-44-0	Fluoranthene	1.5	9.3	2.9	J
129-00-0	Pyrene	0.64	9.3	2.5	J
56-55-3	Benzo(a)anthracene	0.64	9.3	1.2	J
218-01-9	Chrysene	0.71	9.3	1.4	J
205-99-2	Benzo(b)fluoranthene	0.64	9.3	1.2	J
207-08-9	Benzo(k)fluoranthene	0.49	9.3	0.72	J
50-32-8	Benzo(a)pyrene	0.43	9.3	0.58	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.3	0.79	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.3	0.66	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMD 6/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS25-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-16
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-16C66
Analyst: 2743

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	ND	U
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	0.88	J
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 6/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS25-0-1RX

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-16RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-16RJA66
Analyst: MEW

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	1.9	JB X RE
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 6/29/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS25-0-1RX2

Lab Sample ID: 1005130-16RE2
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Date Received: 05/14/10
Lab File ID: 1005130-16RJ2A66
Analyst: MEW

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	1.9	J
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS47-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-09
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-09C66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	1.0	J
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	2.1	J
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	0.74	J
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	1.2	J
205-99-2	Benzo(b)fluoranthene	0.71	10	0.85	J
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 6/9/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS48-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-13
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-13C66
Analyst: 2743

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS49-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-05
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-05J2C66
Analyst: 2743

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/2011

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-07
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-07JC66
Analyst: 2743

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	2.0	J
91-57-6	2-Methylnaphthalene	1.0	13	1.1	J
208-96-8	Acenaphthylene	0.81	13	ND	U
83-32-9	Acenaphthene	0.91	13	1.3	J
86-73-7	Fluorene	0.68	13	0.69	J
85-01-8	Phenanthrene	2.0	13	2.5	J
120-12-7	Anthracene	0.66	13	0.74	J
206-44-0	Fluoranthene	2.0	13	4.3	J
129-00-0	Pyrene	0.86	13	2.1	J
56-55-3	Benzo(a)anthracene	0.86	13	1.6	J
218-01-9	Chrysene	0.96	13	1.6	J
205-99-2	Benzo(b)fluoranthene	0.86	13	1.4	J
207-08-9	Benzo(k)fluoranthene	0.66	13	1.3	J
50-32-8	Benzo(a)pyrene	0.58	13	1.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	0.91	J
53-70-3	Dibenzo(a,h)anthracene	0.51	13	ND	U
191-24-2	Benzo(g,h,i)perylene	0.58	13	0.90	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-07RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-07RJA66
Analyst: MEW

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	5.8	JB X RE
91-57-6	2-Methylnaphthalene	1.0	13	1.7	J
208-96-8	Acenaphthylene	0.81	13	ND	U
83-32-9	Acenaphthene	0.91	13	0.93	J
86-73-7	Fluorene	0.68	13	2.1	
85-01-8	Phenanthrene	2.0	13	4.4	
120-12-7	Anthracene	0.66	13	0.69	J
206-44-0	Fluoranthene	2.0	13	2.4	
129-00-0	Pyrene	0.86	13	2.8	
56-55-3	Benzo(a)anthracene	0.86	13	1.4	
218-01-9	Chrysene	0.96	13	3.2	
205-99-2	Benzo(b)fluoranthene	0.86	13	2.1	
207-08-9	Benzo(k)fluoranthene	0.66	13	1.6	
50-32-8	Benzo(a)pyrene	0.58	13	1.5	
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	2.0	
53-70-3	Dibenzo(a,h)anthracene	0.51	13	ND	U
191-24-2	Benzo(g,h,i)perylene	0.58	13	1.3	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 6/19/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS23-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9 ~~0.54 JP~~ U	2C
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	1.9	J
50-29-3	4,4'-DDT	1.3	J
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	0.62	J
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB23-1.5-2

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin	2.1	2.1	U
319-85-7	beta-BHC	2.1	~~0.47~~ JP	~~U~~
319-84-6	alpha-BHC		2.1	U
319-86-8	delta-BHC		2.1	U
58-89-9	gamma-BHC (Lindane)		2.1	U
72-54-8	4,4'-DDD		4.1	U
72-55-9	4,4'-DDE		4.1	U
50-29-3	4,4'-DDT		4.1	U
60-57-1	Dieldrin		4.1	U
959-98-8	Endosulfan I		2.1	U
33213-65-9	Endosulfan II		4.1	U
1031-07-8	Endosulfan sulfate		4.1	U
72-20-8	Endrin		4.1	U
7421-93-4	Endrin Aldehyde		4.1	U
76-44-8	Heptachlor		2.1	U
1024-57-3	Heptachlor Epoxide		2.1	U
72-43-5	Methoxychlor		21	U
8001-35-2	Toxaphene		100	U
53494-70-5	Endrin Ketone		4.1	U
5103-74-2	gamma-Chlordane		2.1	U
5103-71-9	alpha-Chlordane		2.1	U

SC

FORM I PEST

SM 8/26/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS24-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.60	J
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	93	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB24-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS49-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.5	~~JP~~ NJ SC
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	0.70	J
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

SMT 8/20/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB49-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 24 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	2.2 ~~0.61~~	~~JP~~ U
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.3	U
72-55-9	4,4'-DDE	4.3	U
50-29-3	4,4'-DDT	0.72	J
60-57-1	Dieldrin	4.3	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
72-20-8	Endrin	4.3	U
7421-93-4	Endrin Aldehyde	4.3	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.3	U
5103-74-2	gamma-Chlordane	2.2	U
5103-71-9	alpha-Chlordane	2.2	U

2C

FORM I PEST

SMM 6/28/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS50-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	~~1.2~~ 2.6	~~JP~~ U	2C
319-85-7	beta-BHC	~~1.3~~ 2.6	~~JP~~ U	2C
319-84-6	alpha-BHC	~~0.96~~ 0.96	~~JP~~ NJ	2C
319-86-8	delta-BHC	0.40	J	
58-89-9	gamma-BHC (Lindane)	2.6	U	
72-54-8	4,4'-DDD	~~0.67~~ 5.0	~~JP~~ U	2C
72-55-9	4,4'-DDE	5.0	U	
50-29-3	4,4'-DDT	5.0	U	
60-57-1	Dieldrin	5.0	U	
959-98-8	Endosulfan I	2.6	U	
33213-65-9	Endosulfan II	5.0	U	
1031-07-8	Endosulfan sulfate	~~2.5~~ 5.0	~~JP~~ U	2C
72-20-8	Endrin	~~0.92~~ 5.0	~~JP~~ U	2C
7421-93-4	Endrin Aldehyde	5.0	U	
76-44-8	Heptachlor	0.75	~~JP~~ NJ	2C
1024-57-3	Heptachlor Epoxide	0.65	~~JP~~ NJ	2C
72-43-5	Methoxychlor	26	U	
8001-35-2	Toxaphene	130	U	
53494-70-5	Endrin Ketone	~~0.74~~ 5.0	~~JP~~ U	2C
5103-74-2	gamma-Chlordane	~~0.80~~ 2.6	~~JP~~ U	2C
5103-71-9	alpha-Chlordane	1.3	J	

FORM I PEST

SM 8/20/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB47-14-15

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 31 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.5	U
319-85-7	beta-BHC	2.5	U
319-84-6	alpha-BHC	~~0.30~~ 2.5	~~JP~~ U
319-86-8	delta-BHC	~~1.5~~ 2.5	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	~~0.52~~ 2.5	~~JP~~ U
72-54-8	4,4'-DDD	4.8	U
72-55-9	4,4'-DDE	4.8	U
50-29-3	4,4'-DDT	4.8	U
60-57-1	Dieldrin	4.8	U
959-98-8	Endosulfan I	2.5	U
33213-65-9	Endosulfan II	4.8	U
1031-07-8	Endosulfan sulfate	4.8	U
72-20-8	Endrin	4.8	U
7421-93-4	Endrin Aldehyde	4.8	U
76-44-8	Heptachlor	2.5	U
1024-57-3	Heptachlor Epoxide	0.47	J
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	120	U
53494-70-5	Endrin Ketone	4.8	U
5103-74-2	gamma-Chlordane	2.5	U
5103-71-9	alpha-Chlordane	2.5	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS47-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.6	J
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	17	
50-29-3	4,4'-DDT	1.8	J
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	0.24	JP NJ SC
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

8/20/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS11-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.0	J
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB11-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.8	~~JP~~ NJ SC
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1 ~~0.27~~	~~JP~~ U SC
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

SMM 8/20/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB48-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	3.6	P N
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	2.2	U
5103-71-9	alpha-Chlordane	2.2	U

SC

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS48-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	3.5	~~P~~ U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	2.1	J
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

2C

FORM I PEST

8/26/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS18-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	3.4	~~P~~ U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

QC

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB18-12-13

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	3.2	~~P~~ N
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	3.9	U
60-57-1	Dieldrin	3.9	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	99	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

2C

FORM I PEST

SMM 8/20/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SS25-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	1.8	U	
319-85-7	beta-BHC	3.1		
319-84-6	alpha-BHC	1.8	U	
319-86-8	delta-BHC	1.8 ~~0.21~~	~~JP~~ U	2C
58-89-9	gamma-BHC (Lindane)	1.8	U	
72-54-8	4,4'-DDD	3.5	U	
72-55-9	4,4'-DDE	3.5	U	
50-29-3	4,4'-DDT	3.5 ~~2.5~~	~~JP~~ U	2C
60-57-1	Dieldrin	1.3	J	
959-98-8	Endosulfan I	1.8 ~~0.25~~	~~JP~~ U	2C
33213-65-9	Endosulfan II	11		
1031-07-8	Endosulfan sulfate	3.5	U	
72-20-8	Endrin	3.5 ~~0.39~~	~~JP~~ U	2C
7421-93-4	Endrin Aldehyde	3.5	U	
76-44-8	Heptachlor	1.8	U	
1024-57-3	Heptachlor Epoxide	1.8	U	
72-43-5	Methoxychlor	18	U	
8001-35-2	Toxaphene	87	U	
53494-70-5	Endrin Ketone	3.5	U	
5103-74-2	gamma-Chlordane	2.0 ~~P~~	U	2C
5103-71-9	alpha-Chlordane	1.8	U	

FORM I PEST

4/28/2011

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB25-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.47	J
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.25	J
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	0.28	J
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	88	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8 ~~1.1~~ ~~JP~~	U DC
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

SMM 8/20/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS08-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.9	U	
319-85-7	beta-BHC		1.9	U	
319-84-6	alpha-BHC		1.9	U	
319-86-8	delta-BHC		1.9	U	
58-89-9	gamma-BHC (Lindane)		1.9	U	
72-54-8	4,4'-DDD		20		
72-55-9	4,4'-DDE		20		
50-29-3	4,4'-DDT		3.7		
60-57-1	Dieldrin		3.7	U	
959-98-8	Endosulfan I		1.9	U	
33213-65-9	Endosulfan II		3.7	U	
1031-07-8	Endosulfan sulfate		0.66	J	
72-20-8	Endrin		3.7	U	
7421-93-4	Endrin Aldehyde		1.1	J	
76-44-8	Heptachlor	1.9	~~0.44 JP~~ U		2C
1024-57-3	Heptachlor Epoxide	1.9	~~0.28 JP~~ U		2C
72-43-5	Methoxychlor		19	U	
8001-35-2	Toxaphene		92	U	
53494-70-5	Endrin Ketone		3.7	U	
5103-74-2	gamma-Chlordane	1.9	~~0.29 JP~~ U		2C
5103-71-9	alpha-Chlordane		1.9	U	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB08-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	9.0	
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	0.98	J
72-55-9	4,4'-DDE	0.54	J
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

EMR 8/26/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB08-6-7RE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-19RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin	2.0	U	X RE
319-85-7	beta-BHC	2.0	U	
319-84-6	alpha-BHC	2.0	U	
319-86-8	delta-BHC	2.0	U	
58-89-9	gamma-BHC (Lindane)	2.0	U	
72-54-8	4,4'-DDD	4.0	U	
72-55-9	4,4'-DDE	4.0	U	
50-29-3	4,4'-DDT	4.0	U	
60-57-1	Dieldrin	4.0	U	
959-98-8	Endosulfan I	2.0	U	
33213-65-9	Endosulfan II	4.0	U	
1031-07-8	Endosulfan sulfate	4.0	U	
72-20-8	Endrin	4.0	U	
7421-93-4	Endrin Aldehyde	4.0	U	
76-44-8	Heptachlor	2.0	U	
1024-57-3	Heptachlor Epoxide	2.0	U	
72-43-5	Methoxychlor	20	U	
8001-35-2	Toxaphene	100	U	
53494-70-5	Endrin Ketone	4.0	U	
5103-74-2	gamma-Chlordane	2.0	U	
5103-71-9	alpha-Chlordane	2.0	U	

FORM I PEST

SMM 8/2/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS05-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	0.59	J
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	0.81	J
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	0.35	J
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	1.5	J
5103-71-9	alpha-Chlordane	2.2	U

FORM I PEST

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB48-7-8RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-12RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-12RE1JA66
Analyst: OWS

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	~~1.8~~ U	~~JB~~
91-57-6	2-Methylnaphthalene	0.86	11	ND	UJ
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	3.0	J
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	3.9	J
129-00-0	Pyrene	0.72	11	2.9	J
56-55-3	Benzo(a)anthracene	0.72	11	1.8	J
218-01-9	Chrysene	0.80	11	2.8	J
205-99-2	Benzo(b)fluoranthene	0.72	11	1.3	J
207-08-9	Benzo(k)fluoranthene	0.55	11	1.1	J
50-32-8	Benzo(a)pyrene	0.49	11	0.86	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	0.61	J
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	0.66	J

ND = Not Detected
Q = Qualifier

MBC HT

J J

cdae 9/13/10

FORM I SV-1

SMT 9/9/2010

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005130
Fraction: Organic
Matrix: Solid
Report Date: 8/30/2010 (Revised 9/14/2010)

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. One matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

9/14/01

Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

The positive results and reporting limits (RLs) for polynuclear aromatic hydrocarbons for sample BBG-SB48-7-8-10B should be considered biased quantitative estimates, and may be higher than reported. The laboratory re-extracted this sample 7 days outside of the technical holding time of 14 days. Because the sample was re-extracted outside of holding times, biological or chemical degradation may have occurred. Positive results for polynuclear aromatic hydrocarbons have been marked with "J" qualifiers to indicate that they are quantitative estimates. RLs have been marked "UJ".

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following compounds were detected in associated laboratory method and/or field blanks.

Blank	Compound	Concentration (µg/Kg)	Associated Samples
PBLKBD	Naphthalene	1.3	All Re-extracted Samples

The naphthalene results for sample BBG-SB48-7-8-10B is qualitatively invalid due to the presence of this compound in the associated laboratory method blank. USEPA protocol requires positive results for uncommon contaminants, such as naphthalene, that are less than or equal to five times the associated blank contamination level, to be considered qualitatively invalid. The result for the sample is less than the reporting limit (RL). It has been replaced with the RL and marked "U".

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 FIELD DUPLICATE RESULTS

There wer no field duplicate samples submitted with this SDG.

10.0 LABORATORY CONTROL SAMPLE RESULTS

All criteria were met. No qualifiers were applied.

11.0 INTERNAL STANDARD PERFORMANCE

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-SB23-1.5-2-10B	Beta-BHC
BBG-SS49-0-1-10B	Beta-BHC
BBG-SS50-0-1-10B	Heptachlor, Heptachlor Epoxide, alpha-BHC, Aldrin, 4,4'-DDD
BBG-SS47-0-1-10B	Heptachlor Epoxide
BBG-SB11-11-12-10B	Beta-BHC
BBG-SB48-7-8-10B	Beta-BHC
BBG-SB18-12-13-10B	Beta-BHC

Poor precision (greater than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

Sample	Affected Compounds
BBG-SS23-00-01-10B	beta-BHC
BBG-SS23-0-1-10B	beta-BHC
BBG-SB49-11-12-10B	beta-BHC
BBG-SS50-0-1-10B	beta-BHC Sulfate, Endrin, Endrin Ketone, gamma-Chlordane
BBG-SB47-14-15-10B	Alpha-BHC, delta-BHC, gamma-BHC
BBG-SB11-11-12-10B	delta-BHC
BBG-SS48-0-1-10B	beta-BHC
BBG-SS18-0-1-10B	beta-BHC
BBG-SS25-0-1-10B	Delta-BHC, 4,4'-DDT, Endosulfan I, Endrin, gamma-Chlordane
BBG-SB25-3-4-10B	Gamma-Chlordane
BBG-SS08-0-1-10B	Heptachlor, Heptachlor Epoxide, gamma-Chlordane

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Polynuclear Aromatic Hydrocarbons	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Pesticide Compounds	Method 8081A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005131
Fraction: Organic
Matrix: Aqueous
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for equipment and field blanks. The sample locations, laboratory identification numbers, sample collection date, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

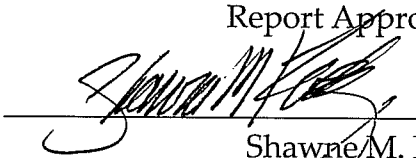
This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:



Shawne M. Rodgers
President

8/30/10

Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

All criteria were met. No qualifiers were applied.

7.0 *SURROGATE COMPOUNDS*

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

This parameter is not applicable to the analyses completed.

9.0 *FIELD DUPLICATE RESULTS*

This parameter is not applicable to the analyses completed.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

Poor precision (greater than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

Sample	Affected Compounds
BBG-FB051810	beta-BHC
BBG-EB051810-SS	beta-BHC

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Polynuclear Aromatic Hydrocarbons	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Pesticide Compounds	Method 8081A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-EB051210-SS	1005131	1005131-01	5/12/2010	Equipment Blank	X	X	X	X		X
BBG-EB051310-SB	1005131	1005131-02	5/13/2010	Equipment Blank	X	X	X	X		X
BBG-FB051310	1005131	1005131-03	5/13/2010	Field Blank	X	X	X	X		X
BBG-FB051810	1005131	1005131-04	5/18/2010	Field Blank	X	X	X	X		X
BBG-EB051810-SS	1005131	1005131-05	5/18/2010	Equipment Blank	X	X	X	X		X

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: BBG-FB051310

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005131-03
Sample wt/vol: 950 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005131-03J2C66
Analyst: 2743

% Moisture: _____ decanted: (Y/N) ____
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N pH: 8.0

Date Extracted: 05/19/10
Date Analyzed: 05/25/10
Dilution Factor: 1.0
Method Blank: 0051905-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.21	0.058	J
91-57-6	2-Methylnaphthalene	0.016	0.21	ND	U
208-96-8	Acenaphthylene	0.011	0.21	ND	U
83-32-9	Acenaphthene	0.037	0.21	ND	U
86-73-7	Fluorene	0.047	0.21	ND	U
85-01-8	Phenanthrene	0.037	0.21	ND	U
120-12-7	Anthracene	0.021	0.21	ND	U
206-44-0	Fluoranthene	0.011	0.21	ND	U
129-00-0	Pyrene	0.011	0.21	ND	U
56-55-3	Benzo(a)anthracene	0.021	0.21	ND	U
218-01-9	Chrysene	0.016	0.21	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.21	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.21	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.21	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.21	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.21	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.21	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 8/25/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: BBG-FB051810

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005131-04
Sample wt/vol: 925 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005131-04J2C66
Analyst: 2743

% Moisture: _____ decanted: (Y/N)___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0052402-BLK1

Date Extracted: 05/24/10
Date Analyzed: 05/26/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.22	0.16	J
91-57-6	2-Methylnaphthalene	0.016	0.22	0.021	J
208-96-8	Acenaphthylene	0.011	0.22	ND	U
83-32-9	Acenaphthene	0.038	0.22	ND	U
86-73-7	Fluorene	0.049	0.22	ND	U
85-01-8	Phenanthrene	0.038	0.22	ND	U
120-12-7	Anthracene	0.022	0.22	ND	U
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.016	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SML 8/16/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: | Lab Project Number:
Client SDG No: 1005131 | Method: 8270C-SIM
Client Sample ID: EB051210-SS | Date Collected: 05/12/10

Lab Sample ID: 1005131-01 | Date Received: 05/13/10
Sample wt/vol: 1000 (g/mL) ML | Lab File ID: 1005131-01JA66
Level: (low/med) LOW | Analyst: 2650

% Moisture: _____ decanted: (Y/N) ___ | Date Extracted: 05/19/10
Concentrated Extract Volume: 1000 (uL) | Date Analyzed: 05/24/10
Injection Volume: 2.0 (uL) | Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0051905-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.11	J
91-57-6	2-Methylnaphthalene	0.015	0.20	0.018	J
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: | Lab Project Number:
Client SDG No: 1005131 | Method: 8270C-SIM
Client Sample ID: EB051310-SB | Date Collected: 05/13/10

Lab Sample ID: 1005131-02 | Date Received: 05/14/10
Sample wt/vol: 1000 (g/mL) ML | Lab File ID: 1005131-02JC66
Level: (low/med) LOW | Analyst: 2743

% Moisture: _____ decanted: (Y/N) ___ | Date Extracted: 05/19/10
Concentrated Extract Volume: 1000(uL) | Date Analyzed: 05/25/10
Injection Volume: 2.0(uL) | Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0051905-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.055	J
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
lient SDG No: 1005131
Client Sample ID: EB051810-SS

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005131-05
Sample wt/vol: 900 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005131-05C66
Analyst: 2743

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N pH: 8.0

Date Extracted: 05/24/10
Date Analyzed: 05/25/10
Dilution Factor: 1.0
Method Blank: 0052402-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.033	0.22	0.15	J
91-57-6	2-Methylnaphthalene	0.017	0.22	0.018	J
208-96-8	Acenaphthylene	0.011	0.22	ND	U
83-32-9	Acenaphthene	0.039	0.22	ND	U
86-73-7	Fluorene	0.050	0.22	ND	U
85-01-8	Phenanthrene	0.039	0.22	ND	U
120-12-7	Anthracene	0.022	0.22	ND	U
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.017	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051210-SS

ab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/19/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

SMM 6/8/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051210-SSRE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-01RE1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
309-00-2	Aldrin	0.050	U	Y
319-85-7	beta-BHC	0.050	U	
319-84-6	alpha-BHC	0.050	U	
319-86-8	delta-BHC	0.050	U	
58-89-9	gamma-BHC (Lindane)	0.050	U	
72-54-8	4,4'-DDD	0.10	U	
72-55-9	4,4'-DDE	0.10	U	
50-29-3	4,4'-DDT	0.10	U	
60-57-1	Dieldrin	0.10	U	
959-98-8	Endosulfan I	0.050	U	
33213-65-9	Endosulfan II	0.10	U	
1031-07-8	Endosulfan sulfate	0.10	U	
72-20-8	Endrin	0.10	U	
7421-93-4	Endrin Aldehyde	0.10	U	
76-44-8	Heptachlor	0.050	U	
1024-57-3	Heptachlor Epoxide	0.050	U	
72-43-5	Methoxychlor	0.50	U	
8001-35-2	Toxaphene	2.5	U	
53494-70-5	Endrin Ketone	0.10	U	
5103-74-2	gamma-Chlordane	0.050	U	
5103-71-9	alpha-Chlordane	0.050	U	

RE

FORM I PEST

SMM 8/13/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051310-SB

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-02RE1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

SMM 8/13/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-FB051310

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-03RE1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

5/26/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-FB051810

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-04

Sample wt/vol: 925.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.054	U
319-85-7	beta-BHC	0.054 ~~0.0060~~	~~JP~~ U
319-84-6	alpha-BHC	0.054	U
319-86-8	delta-BHC	0.054	U
58-89-9	gamma-BHC (Lindane)	0.054	U
72-54-8	4,4'-DDD	0.11	U
72-55-9	4,4'-DDE	0.11	U
50-29-3	4,4'-DDT	0.11	U
60-57-1	Dieldrin	0.11	U
959-98-8	Endosulfan I	0.054	U
33213-65-9	Endosulfan II	0.11	U
1031-07-8	Endosulfan sulfate	0.11	U
72-20-8	Endrin	0.11	U
7421-93-4	Endrin Aldehyde	0.11	U
76-44-8	Heptachlor	0.054	U
1024-57-3	Heptachlor Epoxide	0.054	U
72-43-5	Methoxychlor	0.54	U
8001-35-2	Toxaphene	2.7	U
53494-70-5	Endrin Ketone	0.11	U
5103-74-2	gamma-Chlordane	0.054	U
5103-71-9	alpha-Chlordane	0.054	U

0.054 U SC

FORM I PEST

SMM 8/3/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051810-SS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-05

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/24/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
309-00-2	Aldrin	0.050	0.050	U
319-85-7	beta-BHC	0.050	~~0.0074~~	~~JP~~ U
319-84-6	alpha-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
72-54-8	4,4'-DDD		0.10	U
72-55-9	4,4'-DDE		0.10	U
50-29-3	4,4'-DDT		0.10	U
60-57-1	Dieldrin		0.10	U
959-98-8	Endosulfan I		0.10	U
33213-65-9	Endosulfan II		0.050	U
1031-07-8	Endosulfan sulfate		0.10	U
72-20-8	Endrin		0.10	U
7421-93-4	Endrin Aldehyde		0.10	U
76-44-8	Heptachlor		0.10	U
1024-57-3	Heptachlor Epoxide		0.050	U
72-43-5	Methoxychlor		0.050	U
8001-35-2	Toxaphene		0.50	U
53494-70-5	Endrin Ketone		2.5	U
5103-74-2	gamma-Chlordane		0.10	U
5103-71-9	alpha-Chlordane		0.050	U
			0.050	U

SC

FORM I PEST

SMM 8/3/10

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005132
Fraction: Organic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. Two field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/29/2010
Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following compounds were detected in associated laboratory method and/or field blanks.

Blank	Compound	Concentration (µg/L)	Associated Samples
SBLKCD	Naphthalene	0.79	BBG-SS81-0-1-10B, BBG-SB81-5-6-10B, BBG-SS71-0-1-10B, BBG-SS71D-0-1-10B, BBG-SB71-4-5-10B, BBG-SB71D-4-5-10B
SBLKBP	Naphthalene	0.84	All Except BBG-SS81-0-1-10B, BBG-SB81-5-6-10B, BBG-SS71-0-1-

The naphthalene results for samples BBG-SB85-1.5-2.5-10B , BBG-SB78-3.5-4.5-10B , BBG-SS77-0-1-10B , BBG-SB77-3.5-4.5-10B , BBG-SS79-0-1-10B, BBG-SS83-0-1-10B , BBG-SS74-0-1-10B , BBG-SS86-0-1-10B , and BBG-SS81-0-1-10B , are qualitatively invalid due to the presence of this compound in the associated laboratory method blank. USEPA protocol requires positive results for uncommon contaminants, such as naphthalene, that are less than or equal to five times the associated blank contamination level, to be considered qualitatively invalid. The result for the sample is less than the reporting limit (RL). It has been replaced with the RL and marked "U".

7.0 SURROGATE COMPOUNDS

The positive results and/or RLs for pesticide compounds for the following samples should be considered quantitative estimates. Low recoveries were obtained for the surrogate compounds for the pesticide analyses of these samples.

Sample	Surrogate Compound	Column	Qualifying Action/ Flag (s)
BBG-SB83-6.5-7.5-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SB84-6-7-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SB81-5-6-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SS71D-0-1-10B	Tetrachloro-m-xylene	Both	UJ Nondetects

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples BBG-SS71-0-1-10B and BBG-SS71D-0-1-10B, and BBG-SB71-4-5-10B and BBG-SB71D-4-5-10B were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for the duplicate samples are presented in Tables 2 and 3. No USEPA-established acceptance criteria exist for field duplicate samples. EDQ uses internal acceptance criteria of forty percent for detected extractable compounds to evaluate solid field duplicate samples.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

11.0 *INTERNAL STANDARD PERFORMANCE*

Area counts for the internal standard compounds were below acceptance limits for the analyses of the following samples. The low area counts may be due to the presence of matrix interferences for these samples. All samples were re-analyzed and confirmed the unacceptable internal standard areas. The analysis run used for reporting purposes is indicated in Table 3-2. The results for compounds that were quantitated using these internal standard compounds should be considered quantitative estimates. Placing "J" qualifiers next to positive results for affected compounds has indicated this. The quantitation limits for nondetected compounds have been marked "UJ".

Sample	Unacceptable Internal Standard(s)	Run Used For Reporting	Qualified Results
BBG-SS77-0-1-10B	Acenaphthene-d10	Initial	Acenaphthylene
	Phenanthrene-d10		Flouranthene
BBG-SB77-3.5-4.5-10B	Phenanthrene-d10	Initial	Flouranthene
BBG-SS84-0-1-10B	Phenanthrene-d10	Initial	Phenanthrene, Anthracene

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

The following samples were re-analyzed at dilutions for pesticide compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
BBG-SS86-0-1-10B	10.0	4,4'-DDE, Dieldrin
BBG-SS84-0-1-10B	5.0	4,4'-DDE

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-SS86-0-1-10B	Endosulfan Sulfate, Heptachlor, alpha-Chlordane
BBG-SB86-3-4-10B	Alpha-Chlordane
BBG-SS84-0-1-10B	Alpha-Chlordane
BBG-SS71-0-1-10B	Heptachlor
BBG-SB71-4-5-10B	Endrin Aldehyde

Poor precision (greater than 70 % difference between results) was observed for the pesticide compounds presented in Table 4 on the dual chromatographic columns used for sample analysis. As required by

USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Polynuclear Aromatic Hydrocarbons	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Pesticide Compounds	Method 8081A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SB85-1.5-2.5-10B	1005132	1005132-01	5/13/2010	Soil	X	X	X		X	X
BBG-SB78-3.5-4.5-10B	1005132	1005132-02	5/13/2010	Soil	X	X	X		X	X
BBG-SS77-0-1-10B	1005132	1005132-03	5/13/2010	Soil	X	X	X		X	X
BBG-SB77-3.5-4.5-10B	1005132	1005132-04	5/13/2010	Soil	X	X	X		X	X
BBG-SS79-0-1-10B	1005132	1005132-05	5/13/2010	Soil	X	X	X		X	X
BBG-SB79-11-12-10B	1005132	1005132-06	5/13/2010	Soil	X	X	X		X	X
BBG-SS83-0-1-10B	1005132	1005132-07	5/13/2010	Soil	X	X	X		X	X
BBG-SB83-6.5-7.5-10B	1005132	1005132-08	5/13/2010	Soil	X	X	X		X	X
BBG-SS62-0-1-10B	1005132	1005132-09	5/13/2010	Soil	X	X	X		X	X
BBG-SS74-0-1-10B	1005132	1005132-10	5/14/2010	Soil	X	X	X		X	X
BBG-SS86-0-1-10B	1005132	1005132-11	5/14/2010	Soil	X	X	X		X	X
BBG-SB86-3-4-10B	1005132	1005132-12	5/14/2010	Soil	X	X	X		X	X
BBG-SS84-0-1-10B	1005132	1005132-13	5/14/2010	Soil	X	X	X		X	X
BBG-SB84-6-7-10B	1005132	1005132-14	5/14/2010	Soil	X	X	X		X	X
BBG-SS81-0-1-10B	1005132	1005132-15	5/18/2010	Soil	X	X	X		X	X
BBG-SB81-5-6-10B	1005132	1005132-16	5/18/2010	Soil	X	X	X		X	X
BBG-SS71-0-1-10B	1005132	1005132-17	5/19/2010	Soil	X	X	X		X	X
BBG-SS71D-0-1-10B	1005132	1005132-18	5/19/2010	Soil	X	X	X		X	X
BBG-SB71-4-5-10B	1005132	1005132-19	5/19/2010	Soil	X	X	X		X	X
BBG-SB71D-4-5-10B	1005132	1005132-20	5/19/2010	Soil	X	X	X		X	X

Table 2 **Field Duplicate Sample Results for Organic Analyses**
Soil Duplicate Samples SS71-0-1 and SS71D-0-1

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)		RPD	ACTION
	SS71-0-1		SS71D-0-1			
Pyrene	ND		1	J	NC	
Chrysene	ND		0.75	J	NC	
Benzo (b) fluoranthene	ND		0.69	J	NC	
Benzo (k) fluoranthene	ND		0.91	J	NC	
Benzo (a) pyrene	ND		0.59	J	NC	
Indeno (1,2,3-cd) pyrene	ND		0.78	J	NC	
Benzo (g,h,i) perylene	ND		0.76	J	NC	
4,4'-DDE	1.4	J	4	J	96	
4,4'-DDT	1.1	J	2.5	J	78	
Heptachlor	0.19	J	ND		NC	

Table 3 Field Duplicate Sample Results for Organic Analyses
Soil Duplicate Samples SB71-4-5 and SB71D-4-5

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)		RPD	ACTION
	SB71-4-5		SB71D-4-5			
4,4'-DDT	ND		0.67	J	NC	
Heptachlor	0.25	J	ND		NC	

Table 4 Pesiticde Results Qualified Due to Dual Column Imprecision

Sample	Affected Compounds
BBG-SB85-1.5-2.5-10B	beta-BHC, delta-BHC, Dieldrin, Endosulfan I, Endrin, Endrin Aldehyde
BBG-SS77-0-1-10B	delta-BHC, Dieldrin, gamma-Chlordane
BBG-SB77-3.5-4.5-10B	gamma-BHC, gamma-Chlordane
BBG-SS79-0-1-10B	delta-BHC, Endosulfan II, Endrin, Heptachlor Epoxide, alpha-Chlordane
BBG-SS83-0-1-10B	delta-BHC,Endosulfan suldate, Heptachlor, Methoxychlor, Endrin ketone
BBG-SB83-6.5-7.5-10B	alpha-BHC
BBG-SS62-0-1-10B	Aldrin, beta-BHC, Dieldrin, Endosulfan I, Endosulfan Sulfate, Endrin, Endrin Aldehyde,Heptachlor, Heptachlor Epoxide, alpha-Chlordane
BBG-SS74-0-1-10B	beta-BHC, gamma-Chlordane
BBG-SS86-0-1-10B	Heptachlor Epoxide,
BBG-SB86-3-4-10B	gamma-Chlordane
BBG-SS84-0-1-10B	Aldrin, Dieldrin, Endrin Aldehyde,Heptachlor, Heptachlor Epoxide, gamma-Chlordane
BBG-SS81-0-1-10B	gamma-Chlordance
BBG-SB71-4-5-10B	gamma-Chlordance
BBG-SB71D-4-5-10B	gamma-Chlordance, alpha-Chlordane

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB85-1.5-2.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-01JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10 U ~~1.1~~	J ✓ MBL
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

SMM 8/21/2016

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB78-3.5-4.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-02C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 14 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.7 ~~1.2~~	J/U
91-57-6	2-Methylnaphthalene	0.86	J
208-96-8	Acenaphthylene	9.7	U
83-32-9	Acenaphthene	9.7	U
86-73-7	Fluorene	9.7	U
85-01-8	Phenanthrene	9.7	U
120-12-7	Anthracene	9.7	U
206-44-0	Fluoranthene	9.7	U
129-00-0	Pyrene	9.7	U
56-55-3	Benzo(a)anthracene	9.7	U
218-01-9	Chrysene	9.7	U
205-99-2	Benzo(b)fluoranthene	9.7	U
207-08-9	Benzo(k)fluoranthene	9.7	U
50-32-8	Benzo(a)pyrene	9.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.7	U
53-70-3	Dibenzo(a,h)anthracene	9.7	U
191-24-2	Benzo(g,h,i)perylene	9.7	U

MBL

SMT 8/20/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS77-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-03C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 23 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
91-20-3	Naphthalene	1.7	U	MBL
91-57-6	2-Methylnaphthalene	1.3	J	
208-96-8	Acenaphthylene	1.1	J	
83-32-9	Acenaphthene	11	U J	ISL
86-73-7	Fluorene	11	U	
85-01-8	Phenanthrene	2.7	J	
120-12-7	Anthracene	1.2	J	
206-44-0	Fluoranthene	14	J	ISL
129-00-0	Pyrene	13		
56-55-3	Benzo(a)anthracene	4.8	J	
218-01-9	Chrysene	7.5	J	
205-99-2	Benzo(b)fluoranthene	7.9	J	
207-08-9	Benzo(k)fluoranthene	6.5	J	
50-32-8	Benzo(a)pyrene	4.1	J	
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	J	
53-70-3	Dibenzo(a,h)anthracene	0.72	J	
191-24-2	Benzo(g,h,i)perylene	2.3	J	✓

SMM 8/20/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS77-0-1RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-03JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 23 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.9	U
91-57-6	2-Methylnaphthalene	1.4	U
208-96-8	Acenaphthylene	2.1	U
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
85-01-8	Phenanthrene	2.8	U
120-12-7	Anthracene	2.6	U
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	4.7	J
218-01-9	Chrysene	7.5	U
205-99-2	Benzo(b)fluoranthene	8.6	U
207-08-9	Benzo(k)fluoranthene	6.1	U
50-32-8	Benzo(a)pyrene	4.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	U
53-70-3	Dibenzo(a,h)anthracene	0.68	U
191-24-2	Benzo(g,h,i)perylene	2.2	U

X

RE

SMM 8/20/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB77-3.5-4.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-04C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 10 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
91-20-3	Naphthalene	9.2 ~~1.1~~	J ~~U~~	MBL
91-57-6	2-Methylnaphthalene	0.85	J	
208-96-8	Acenaphthylene	9.2	U	
83-32-9	Acenaphthene	9.2	U	
86-73-7	Fluorene	9.2	U	
85-01-8	Phenanthrene	9.2	U	
120-12-7	Anthracene	9.2	U	
206-44-0	Fluoranthene	9.2	U J	ISL
129-00-0	Pyrene	9.2	U	
56-55-3	Benzo(a)anthracene	9.2	U	
218-01-9	Chrysene	9.2	U	
205-99-2	Benzo(b)fluoranthene	9.2	U	
207-08-9	Benzo(k)fluoranthene	9.2	U	
50-32-8	Benzo(a)pyrene	9.2	U	
193-39-5	Indeno(1,2,3-cd)pyrene	9.2	U	
53-70-3	Dibenzo(a,h)anthracene	9.2	U	
191-24-2	Benzo(g,h,i)perylene	9.2	U	

SMA 8/20/10

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB77-3.5-4.5RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-04JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 10 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
91-20-3	Naphthalene	1.4	J	Y RE
91-57-6	2-Methylnaphthalene	0.77	J	
208-96-8	Acenaphthylene	9.2	U	
83-32-9	Acenaphthene	9.2	U	
86-73-7	Fluorene	9.2	U	
85-01-8	Phenanthrene	9.2	U	
120-12-7	Anthracene	9.2	U	
206-44-0	Fluoranthene	9.2	U	
129-00-0	Pyrene	9.2	U	
56-55-3	Benzo(a)anthracene	9.2	U	
218-01-9	Chrysene	9.2	U	
205-99-2	Benzo(b)fluoranthene	9.2	U	
207-08-9	Benzo(k)fluoranthene	9.2	U	
50-32-8	Benzo(a)pyrene	9.2	U	
193-39-5	Indeno(1,2,3-cd)pyrene	9.2	U	
53-70-3	Dibenzo(a,h)anthracene	9.2	U	
191-24-2	Benzo(g,h,i)perylene	9.2	U	

SMM 8/12/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS79-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-05C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 4 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.6 ~~1.7~~	U MBL
91-57-6	2-Methylnaphthalene	0.92	J
208-96-8	Acenaphthylene	8.6	U
83-32-9	Acenaphthene	8.6	U
86-73-7	Fluorene	8.6	U
85-01-8	Phenanthrene	1.8	J
120-12-7	Anthracene	8.6	U
206-44-0	Fluoranthene	8.6	U
129-00-0	Pyrene	0.76	J
56-55-3	Benzo(a)anthracene	8.6	U
218-01-9	Chrysene	0.67	J
205-99-2	Benzo(b)fluoranthene	8.6	U
207-08-9	Benzo(k)fluoranthene	0.52	J
50-32-8	Benzo(a)pyrene	8.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.6	U
53-70-3	Dibenzo(a,h)anthracene	8.6	U
191-24-2	Benzo(g,h,i)perylene	8.6	U

SMM 6/20/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB79-11-12

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-06C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB79-11-12RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-06JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

Y

RE

8/20/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS83-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-07C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.8 ~~1.5~~	J ~~U~~
91-57-6	2-Methylnaphthalene	0.84	J
208-96-8	Acenaphthylene	8.8	U
83-32-9	Acenaphthene	8.8	U
86-73-7	Fluorene	8.8	U
85-01-8	Phenanthrene	8.8	U
120-12-7	Anthracene	8.8	U
206-44-0	Fluoranthene	8.8	U
129-00-0	Pyrene	1.1	J
56-55-3	Benzo(a)anthracene	0.64	J
218-01-9	Chrysene	1.0	J
205-99-2	Benzo(b)fluoranthene	1.4	J
207-08-9	Benzo(k)fluoranthene	0.90	J
50-32-8	Benzo(a)pyrene	0.78	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.65	J
53-70-3	Dibenzo(a,h)anthracene	8.8	U
191-24-2	Benzo(g,h,i)perylene	0.54	J

MBL

SMM 8/20/10

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS83-0-1RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-07JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.7	U
91-57-6	2-Methylnaphthalene	8.8	U
208-96-8	Acenaphthylene	8.8	U
83-32-9	Acenaphthene	8.8	U
86-73-7	Fluorene	8.8	U
85-01-8	Phenanthrene	8.8	U
120-12-7	Anthracene	8.8	U
206-44-0	Fluoranthene	8.8	U
129-00-0	Pyrene	0.98	J
56-55-3	Benzo(a)anthracene	8.8	U
218-01-9	Chrysene	0.99	J
205-99-2	Benzo(b)fluoranthene	1.3	J
207-08-9	Benzo(k)fluoranthene	0.95	J
50-32-8	Benzo(a)pyrene	0.71	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.65	J
53-70-3	Dibenzo(a,h)anthracene	8.8	U
191-24-2	Benzo(g,h,i)perylene	0.55	J

X

SM RE

SM 6/28/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB83-6.5-7.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-08J2C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 15 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.8	U
91-57-6	2-Methylnaphthalene	9.8	U
208-96-8	Acenaphthylene	9.8	U
83-32-9	Acenaphthene	9.8	U
86-73-7	Fluorene	9.8	U
85-01-8	Phenanthrene	9.8	U
120-12-7	Anthracene	9.8	U
206-44-0	Fluoranthene	9.8	U
129-00-0	Pyrene	9.8	U
56-55-3	Benzo(a)anthracene	9.8	U
218-01-9	Chrysene	9.8	U
205-99-2	Benzo(b)fluoranthene	9.8	U
207-08-9	Benzo(k)fluoranthene	9.8	U
50-32-8	Benzo(a)pyrene	9.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.8	U
53-70-3	Dibenzo(a,h)anthracene	9.8	U
191-24-2	Benzo(g,h,i)perylene	9.8	U

SMM 8/17/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS62-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-09JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 69 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	5.3	J
91-57-6	2-Methylnaphthalene	4.0	J
208-96-8	Acenaphthylene	4.6	J
83-32-9	Acenaphthene	27	U
86-73-7	Fluorene	27	U
85-01-8	Phenanthrene	10	J
120-12-7	Anthracene	27	U
206-44-0	Fluoranthene	14	J
129-00-0	Pyrene	12	J
56-55-3	Benzo(a)anthracene	5.4	J
218-01-9	Chrysene	8.5	J
205-99-2	Benzo(b)fluoranthene	15	J
207-08-9	Benzo(k)fluoranthene	8.3	J
50-32-8	Benzo(a)pyrene	7.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	7.5	J
53-70-3	Dibenzo(a,h)anthracene	27	U
191-24-2	Benzo(g,h,i)perylene	27	U

SMM 8/20/2016

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS74-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-10JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 3 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	84 ~~0.76~~	~~J~~ U MBL
91-57-6	2-Methylnaphthalene	8.6	U
208-96-8	Acenaphthylene	8.6	U
83-32-9	Acenaphthene	8.6	U
86-73-7	Fluorene	8.6	U
85-01-8	Phenanthrene	8.6	U
120-12-7	Anthracene	8.6	U
206-44-0	Fluoranthene	8.6	U
129-00-0	Pyrene	8.6	U
56-55-3	Benzo(a)anthracene	8.6	U
218-01-9	Chrysene	8.6	U
205-99-2	Benzo(b)fluoranthene	8.6	U
207-08-9	Benzo(k)fluoranthene	0.47	J
50-32-8	Benzo(a)pyrene	8.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	J
53-70-3	Dibenzo(a,h)anthracene	8.6	U
191-24-2	Benzo(g,h,i)perylene	8.6	U

SMM 8/27/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS86-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-11JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 13 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.5 ~~1.6~~	~~J~~ √ U MBL
91-57-6	2-Methylnaphthalene	1.2	J
208-96-8	Acenaphthylene	9.5	U
83-32-9	Acenaphthene	9.5	U
86-73-7	Fluorene	9.5	U
85-01-8	Phenanthrene	1.7	J
120-12-7	Anthracene	9.5	U
206-44-0	Fluoranthene	3.7	J
129-00-0	Pyrene	3.0	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	2.1	J
205-99-2	Benzo(b)fluoranthene	2.5	J
207-08-9	Benzo(k)fluoranthene	1.6	J
50-32-8	Benzo(a)pyrene	1.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.2	J
53-70-3	Dibenzo(a,h)anthracene	9.5	U
191-24-2	Benzo(g,h,i)perylene	1.1	J

SMW 8/20/10

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB86-3-4

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-12J2C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 16 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.9	U
91-57-6	2-Methylnaphthalene	9.9	U
208-96-8	Acenaphthylene	9.9	U
83-32-9	Acenaphthene	9.9	U
86-73-7	Fluorene	9.9	U
85-01-8	Phenanthrene	9.9	U
120-12-7	Anthracene	9.9	U
206-44-0	Fluoranthene	9.9	U
129-00-0	Pyrene	0.68	J
56-55-3	Benzo(a)anthracene	9.9	U
218-01-9	Chrysene	9.9	U
205-99-2	Benzo(b)fluoranthene	9.9	U
207-08-9	Benzo(k)fluoranthene	9.9	U
50-32-8	Benzo(a)pyrene	9.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.9	U
53-70-3	Dibenzo(a,h)anthracene	9.9	U
191-24-2	Benzo(g,h,i)perylene	9.9	U

SMM 8/20/2016

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS84-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-13A66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 5 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U
91-57-6	2-Methylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	8.7	U
86-73-7	Fluorene	8.7	U
85-01-8	Phenanthrene	8.7	U J
120-12-7	Anthracene	8.7	U J
206-44-0	Fluoranthene	2.5	J
129-00-0	Pyrene	2.2	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	2.2	J
205-99-2	Benzo(b)fluoranthene	2.1	J
207-08-9	Benzo(k)fluoranthene	1.5	J
50-32-8	Benzo(a)pyrene	1.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.4	J
53-70-3	Dibenzo(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	1.4	J

ISL
ISL

SMM 8/20/10

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS84-0-1RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-13JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 5 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U X
91-57-6	2-Methylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	8.7	U
86-73-7	Fluorene	8.7	U
85-01-8	Phenanthrene	8.7	U
120-12-7	Anthracene	8.7	U
206-44-0	Fluoranthene	2.7	U
129-00-0	Pyrene	2.4	U
56-55-3	Benzo(a)anthracene	1.2	U
218-01-9	Chrysene	2.0	U
205-99-2	Benzo(b)fluoranthene	1.8	U
207-08-9	Benzo(k)fluoranthene	1.8	U
50-32-8	Benzo(a)pyrene	1.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	U
53-70-3	Dibenzo(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	1.3	U

RE

SMM 8/20/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB84-6-7

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-14J2C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 18 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

8/21/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS81-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-15A66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 3 decanted: (Y/N) N Date Extracted: 05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/01/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.6 ~~1.0~~	J U
91-57-6	2-Methylnaphthalene	8.6	U
208-96-8	Acenaphthylene	8.6	U
83-32-9	Acenaphthene	8.6	U
86-73-7	Fluorene	8.6	U
85-01-8	Phenanthrene	2.5	J
120-12-7	Anthracene	8.6	U
206-44-0	Fluoranthene	2.4	J
129-00-0	Pyrene	1.8	J
56-55-3	Benzo(a)anthracene	0.86	J
218-01-9	Chrysene	1.3	J
205-99-2	Benzo(b)fluoranthene	1.4	J
207-08-9	Benzo(k)fluoranthene	0.84	J
50-32-8	Benzo(a)pyrene	0.76	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.74	J
53-70-3	Dibenzo(a,h)anthracene	8.6	U
191-24-2	Benzo(g,h,i)perylene	0.59	J

MBL

SMM 8/20/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB81-5-6

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-16JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 7 decanted: (Y/N) N Date Extracted: 05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.9	U
91-57-6	2-Methylnaphthalene	8.9	U
208-96-8	Acenaphthylene	8.9	U
83-32-9	Acenaphthene	8.9	U
86-73-7	Fluorene	8.9	U
85-01-8	Phenanthrene	8.9	U
120-12-7	Anthracene	8.9	U
206-44-0	Fluoranthene	8.9	U
129-00-0	Pyrene	8.9	U
56-55-3	Benzo(a)anthracene	8.9	U
218-01-9	Chrysene	8.9	U
205-99-2	Benzo(b)fluoranthene	8.9	U
207-08-9	Benzo(k)fluoranthene	8.9	U
50-32-8	Benzo(a)pyrene	8.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.9	U
53-70-3	Dibenzo(a,h)anthracene	8.9	U
191-24-2	Benzo(g,h,i)perylene	8.9	U

SMM 8/2/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS71-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-17JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 9 decanted: (Y/N) N Date Extracted: 05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	9.1	U
86-73-7	Fluorene	9.1	U
85-01-8	Phenanthrene	9.1	U
120-12-7	Anthracene	9.1	U
206-44-0	Fluoranthene	9.1	U
129-00-0	Pyrene	9.1	U
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenzo(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

SMC 8/2/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS71D-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-18JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 9 decanted: (Y/N) N Date Extracted:05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	9.1	U
86-73-7	Fluorene	9.1	U
85-01-8	Phenanthrene	9.1	U
120-12-7	Anthracene	9.1	U
206-44-0	Fluoranthene	9.1	U
129-00-0	Pyrene	1.0	J
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	0.75	J
205-99-2	Benzo(b)fluoranthene	0.69	J
207-08-9	Benzo(k)fluoranthene	0.91	J
50-32-8	Benzo(a)pyrene	0.59	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.78	J
53-70-3	Dibenzo(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	0.76	J

SMM 8/12/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB71-4-5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-19JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 20 decanted: (Y/N) N Date Extracted:05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

SM 8/20/2010

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB71D-4-5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-20JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 20 decanted: (Y/N) N Date Extracted:05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

SMM 8/20/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB85-1.5-2.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		2.0	U	
319-85-7	beta-BHC	2.0	~~0.56~~ ~~JP~~	U	2C
319-84-6	alpha-BHC		2.0	U	
319-86-8	delta-BHC	2.0	~~0.53~~ ~~JP~~	U	2C
58-89-9	gamma-BHC (Lindane)		2.0	U	
72-54-8	4,4'-DDD		4.0	U	
72-55-9	4,4'-DDE		4.0	U	
50-29-3	4,4'-DDT		4.0	U	
60-57-1	Dieldrin	4.0	~~0.48~~ ~~JP~~	U	2C
959-98-8	Endosulfan I	2.0	~~0.51~~ ~~JP~~	U	2C
33213-65-9	Endosulfan II		0.47	J	
1031-07-8	Endosulfan sulfate		4.0	U	
72-20-8	Endrin	4.0	~~0.62~~ ~~JP~~	U	2C
7421-93-4	Endrin Aldehyde	4.0	~~0.47~~ ~~JP~~	U	2C
76-44-8	Heptachlor		0.39	J	
1024-57-3	Heptachlor Epoxide		2.0	U	
72-43-5	Methoxychlor		20	U	
8001-35-2	Toxaphene		100	U	
53494-70-5	Endrin Ketone		4.0	U	
5103-74-2	gamma-Chlordane		2.0	U	
5103-71-9	alpha-Chlordane		2.0	U	

FORM I PEST

SMK 6/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB78-3.5-4.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	3.8	U
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

SMT 8/23/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS77-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.2	U	
319-85-7	beta-BHC	0.66	J	
319-84-6	alpha-BHC	0.27	J	
319-86-8	delta-BHC	2.2 ~~0.34~~	~~JP~~ U	SC
58-89-9	gamma-BHC (Lindane)	2.2	U	
72-54-8	4,4'-DDD	4.3	U	
72-55-9	4,4'-DDE	1.3	J	
50-29-3	4,4'-DDT	2.7	J	
60-57-1	Dieldrin	4.3 ~~1.0~~	~~JP~~ U	SC
959-98-8	Endosulfan I	2.2	U	
33213-65-9	Endosulfan II	4.3	U	
1031-07-8	Endosulfan sulfate	4.3	U	
72-20-8	Endrin	4.3	U	
7421-93-4	Endrin Aldehyde	4.3	U	
76-44-8	Heptachlor	2.2	U	
1024-57-3	Heptachlor Epoxide	2.2	U	
72-43-5	Methoxychlor	22	U	
8001-35-2	Toxaphene	110	U	
53494-70-5	Endrin Ketone	4.3	U	
5103-74-2	gamma-Chlordane	2.2 ~~0.87~~	~~JP~~ U	SC
5103-71-9	alpha-Chlordane	2.2	U	

FORM I PEST

SMM 6/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS77-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	11	U
319-85-7	beta-BHC	11	U
319-84-6	alpha-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
72-54-8	4,4'-DDD	21	U
72-55-9	4,4'-DDE	21	U
50-29-3	4,4'-DDT	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	11	U
33213-65-9	Endosulfan II	8.1	DU
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin Aldehyde	21	U
76-44-8	Heptachlor	11	U
1024-57-3	Heptachlor Epoxide	11	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	540	U
53494-70-5	Endrin Ketone	21	U
5103-74-2	gamma-Chlordane	11	U
5103-71-9	alpha-Chlordane	11	U

FORM I PEST

SMM 6/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB77-3.5-4.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.9	U	
319-85-7	beta-BHC		1.9	U	
319-84-6	alpha-BHC		1.9	U	
319-86-8	delta-BHC	1.9	~~0.26~~	~~JP~~ U	SC
58-89-9	gamma-BHC (Lindane)		1.9	U	
72-54-8	4,4'-DDD		3.7	U	
72-55-9	4,4'-DDE		3.7	U	
50-29-3	4,4'-DDT		3.7	U	
60-57-1	Dieldrin		3.7	U	
959-98-8	Endosulfan I		0.32	J	
33213-65-9	Endosulfan II		3.7	U	
1031-07-8	Endosulfan sulfate		3.7	U	
72-20-8	Endrin		3.7	U	
7421-93-4	Endrin Aldehyde		3.7	U	
76-44-8	Heptachlor		1.9	U	
1024-57-3	Heptachlor Epoxide		1.9	U	
72-43-5	Methoxychlor		19	U	
8001-35-2	Toxaphene		92	U	
53494-70-5	Endrin Ketone		3.7	U	
5103-74-2	gamma-Chlordane		1.9	U	
5103-71-9	alpha-Chlordane	1.9	~~0.20~~	~~JP~~ U	SC

FORM I PEST

SMM 8/27/10C

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS79-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q		
309-00-2	Aldrin	1.8	U		
319-85-7	beta-BHC	1.8	U		
319-84-6	alpha-BHC	1.8	U		
319-86-8	delta-BHC	1.8	U		
58-89-9	gamma-BHC (Lindane)	~~0.21~~	~~JP~~	U	2C
72-54-8	4,4'-DDD	1.8	U		
72-55-9	4,4'-DDE	3.4	U		
50-29-3	4,4'-DDT	3.4	U		
60-57-1	Dieldrin	1.4	J		
959-98-8	Endosulfan I	3.4	U		
33213-65-9	Endosulfan II	1.8	U		
1031-07-8	Endosulfan sulfate	~~0.36~~	~~JP~~	U	2C
72-20-8	Endrin	2.5	JP		
7421-93-4	Endrin Aldehyde	~~0.64~~	~~JP~~	U	2C
76-44-8	Heptachlor	3.4	U		
1024-57-3	Heptachlor Epoxide	1.8	U		
72-43-5	Methoxychlor	~~0.27~~	~~JP~~	U	2C
8001-35-2	Toxaphene	18	U		
53494-70-5	Endrin Ketone	86	U		
5103-74-2	gamma-Chlordane	3.4	U		
5103-71-9	alpha-Chlordane	1.8	U		
		~~0.17~~	~~JP~~	U	2C

FORM I PEST

SMM 8/2/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB79-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

SMT 8/27/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS83-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	1.8	U	
319-85-7	beta-BHC	1.8	U	
319-84-6	alpha-BHC	1.8	U	
319-86-8	delta-BHC	1.8 ~~0.48~~	~~JP~~ U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
72-54-8	4,4'-DDD	3.5	U	
72-55-9	4,4'-DDE	0.96	J	
50-29-3	4,4'-DDT	3.5	U	
60-57-1	Dieldrin	3.5	U	
959-98-8	Endosulfan I	0.45	J	
33213-65-9	Endosulfan II	3.5	U	
1031-07-8	Endosulfan sulfate	3.5 ~~2.2~~	~~JP~~ U	2C
72-20-8	Endrin	3.5	U	
7421-93-4	Endrin Aldehyde	3.5	U	
76-44-8	Heptachlor	1.8 ~~0.21~~	~~JP~~ U	2C
1024-57-3	Heptachlor Epoxide	1.8	U	
72-43-5	Methoxychlor	18 ~~7.2~~	~~JP~~ U	2C
8001-35-2	Toxaphene	88	U	
53494-70-5	Endrin Ketone	3.5 ~~2.4~~	~~JP~~ U	2C
5103-74-2	gamma-Chlordane	1.8	U	
5103-71-9	alpha-Chlordane	0.74	J	

FORM I PEST

JMK 8/2/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB83-6.5-7.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U J
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	3.9	U
60-57-1	Dieldrin	3.9	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	98	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

SSL

FORM I PEST

EMM 8/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS62-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 69 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin	5.5	~~5.2~~ JP	~~U~~ 2C
319-85-7	beta-BHC	5.5	~~3.2~~ JP	U 2C
319-84-6	alpha-BHC		5.5	U
319-86-8	delta-BHC		4.5	J
58-89-9	gamma-BHC (Lindane)		5.5	U
72-54-8	4,4'-DDD		11	U
72-55-9	4,4'-DDE		11	U
50-29-3	4,4'-DDT		11	U
60-57-1	Dieldrin		~~18~~ P	~~U~~ 2C
959-98-8	Endosulfan I	5.5	~~1.9~~ JP	U 2C
33213-65-9	Endosulfan II		11	U
1031-07-8	Endosulfan sulfate		~~16~~ P	~~U~~ 2C
72-20-8	Endrin	11	~~1.9~~ JP	U
7421-93-4	Endrin Aldehyde	11	~~2.9~~ JP	U
76-44-8	Heptachlor	5.5	~~5.1~~ JP	U
1024-57-3	Heptachlor Epoxide	5.5	~~2.3~~ JP	U
72-43-5	Methoxychlor		55	U
8001-35-2	Toxaphene		270	U
53494-70-5	Endrin Ketone		11	U
5103-74-2	gamma-Chlordane		5.5	U
5103-71-9	alpha-Chlordane	5.5	~~1.7~~ JP	U 2C

FORM I PEST

SML 8/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS62-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-09RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 69 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	55	U
319-85-7	beta-BHC	55	U
319-84-6	alpha-BHC	55	U
319-86-8	delta-BHC	5.6	DJP
58-89-9	gamma-BHC (Lindane)	55	U
72-54-8	4,4'-DDD	110	U
72-55-9	4,4'-DDE	110	U
50-29-3	4,4'-DDT	18	DJ
60-57-1	Dieldrin	65	DJP
959-98-8	Endosulfan I	55	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	17	DJP
72-20-8	Endrin	110	U
7421-93-4	Endrin Aldehyde	110	U
76-44-8	Heptachlor	13	DJ
1024-57-3	Heptachlor Epoxide	55	U
72-43-5	Methoxychlor	550	U
8001-35-2	Toxaphene	2700	U
53494-70-5	Endrin Ketone	110	U
5103-74-2	gamma-Chlordane	55	U
5103-71-9	alpha-Chlordane	55	U

X DL

FORM I PEST

8/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS74-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	1.8	U	
319-85-7	beta-BHC	0.35	~~JP~~	2C
319-84-6	alpha-BHC	1.8	U	
319-86-8	delta-BHC	1.8	U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
72-54-8	4,4'-DDD	3.4	U	
72-55-9	4,4'-DDE	3.4	U	
50-29-3	4,4'-DDT	3.4	U	
60-57-1	Dieldrin	1.1	J	
959-98-8	Endosulfan I	1.8	U	
33213-65-9	Endosulfan II	3.4	U	
1031-07-8	Endosulfan sulfate	1.7	J	
72-20-8	Endrin	3.4	U	
7421-93-4	Endrin Aldehyde	3.4	U	
76-44-8	Heptachlor	1.8	U	
1024-57-3	Heptachlor Epoxide	1.8	U	
72-43-5	Methoxychlor	18	U	
8001-35-2	Toxaphene	86	U	
53494-70-5	Endrin Ketone	3.4	U	
5103-74-2	gamma-Chlordane	0.32	~~JP~~	2C
5103-71-9	alpha-Chlordane	0.36	J	

FORM I PEST

SMM 8/31/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS86-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.0	U	
319-85-7	beta-BHC	2.0	U	
319-84-6	alpha-BHC	2.0	U	
319-86-8	delta-BHC	2.0	U	
58-89-9	gamma-BHC (Lindane)	2.0	U	
72-54-8	4,4'-DDD	5.6		
72-55-9	4,4'-DDE	67	~~E~~ X	LR
50-29-3	4,4'-DDT	12		
60-57-1	Dieldrin	160	~~E~~ X	LR
959-98-8	Endosulfan I	2.0	U	
33213-65-9	Endosulfan II	3.8	U	
1031-07-8	Endosulfan sulfate	3.8	U	
72-20-8	Endrin	1.2	~~JP~~	2C
7421-93-4	Endrin Aldehyde	3.8	U	
76-44-8	Heptachlor	0.37	~~JP~~	2C
1024-57-3	Heptachlor Epoxide	~~2.0~~ ~~0.50~~	~~JP~~ U	2C
72-43-5	Methoxychlor	20	U	
8001-35-2	Toxaphene	95	U	
53494-70-5	Endrin Ketone	3.8	U	
5103-74-2	gamma-Chlordane	4.1		
5103-71-9	alpha-Chlordane	5.0	~~P~~ ~~JT~~	2C

FORM I PEST

SMK 8/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS86-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-11RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q		
309-00-2	Aldrin	20	U	X	DL
319-85-7	beta-BHC	20	U		
319-84-6	alpha-BHC	20	U		
319-86-8	delta-BHC	20	U		
58-89-9	gamma-BHC (Lindane)	20	U		
72-54-8	4,4'-DDD	5.8	DJ		
72-55-9	4,4'-DDE	59	D		
50-29-3	4,4'-DDT	11	~~DJP~~	X	DL
60-57-1	Dieldrin	150	D		
959-98-8	Endosulfan I	20	U	X	DL
33213-65-9	Endosulfan II	38	U		
1031-07-8	Endosulfan sulfate	38	U		
72-20-8	Endrin	38	U		
7421-93-4	Endrin Aldehyde	38	U		
76-44-8	Heptachlor	20	U		
1024-57-3	Heptachlor Epoxide	20	U		
72-43-5	Methoxychlor	200	U		
8001-35-2	Toxaphene	950	U		
53494-70-5	Endrin Ketone	38	U		
5103-74-2	gamma-Chlordane	4.2	DJP		
5103-71-9	alpha-Chlordane	5.3	DJP		

FORM I PEST

6/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB86-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	0.40	J
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	0.54	J
50-29-3	4,4'-DDT	2.7	J
60-57-1	Dieldrin	1.3	J
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	99	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	20 ~~0.38~~	~~JP~~ U 2C
5103-71-9	alpha-Chlordane	0.38	~~JP~~ NJ 2C

FORM I PEST

smm 6/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS84-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8 ~~0.20~~	~~JP~~ U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	5.6	
72-55-9	4,4'-DDE	38	~~X~~
50-29-3	4,4'-DDT	16	
60-57-1	Dieldrin	3.5 ~~0.73~~	~~JP~~ U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5 ~~0.53~~	~~JP~~ U
76-44-8	Heptachlor	1.8 ~~3.5~~ ~~0.39~~	~~JP~~ U
1024-57-3	Heptachlor Epoxide	1.8 ~~3.5~~ ~~0.23~~	~~JP~~ U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8 ~~1.4~~	~~JP~~ U
5103-71-9	alpha-Chlordane	~~1.8~~ ~~0.54~~	~~JP~~

T 0.54 J

FORM I PEST

sent 8/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS84-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	8.9	U
319-85-7	beta-BHC	8.9	U
319-84-6	alpha-BHC	8.9	U
319-86-8	delta-BHC	8.9	U
58-89-9	gamma-BHC (Lindane)	8.9	U
72-54-8	4,4'-DDD	5.5	DJ
72-55-9	4,4'-DDE	34	D
50-29-3	4,4'-DDT	14	DJ
60-57-1	Dieldrin	17	U
959-98-8	Endosulfan I	8.9	U
33213-65-9	Endosulfan II	17	U
1031-07-8	Endosulfan sulfate	17	U
72-20-8	Endrin	17	U
7421-93-4	Endrin Aldehyde	17	U
76-44-8	Heptachlor	8.9	U
1024-57-3	Heptachlor Epoxide	8.9	U
72-43-5	Methoxychlor	89	U
8001-35-2	Toxaphene	440	U
53494-70-5	Endrin Ketone	17	U
5103-74-2	gamma-Chlordane	8.9	U
5103-71-9	alpha-Chlordane	8.9	U

FORM I PEST

smm 8/11/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB84-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	0.47	J
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

J J SSL

FORM I PEST

SMM 8/27/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS81-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.8 ~~0.23~~	JBP U SC
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

SMM 8/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB81-5-6

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U J
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	89	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

SL

FORM I PEST

SMK 6/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS71-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	1.4	J
50-29-3	4,4'-DDT	1.1	J
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	0.19	~~JP~~ J SC
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

FORM I PEST

SMM 8/27/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS71D-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	4.0	
50-29-3	4,4'-DDT	2.5	J
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

J J SSL

FORM I PEST

SM 6/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB71-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	0.25	~~JP~~ UXT SC
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1 ~~0.30~~	~~JBP~~ U2C
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

SMK 8/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB71D-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		2.1	U	
319-85-7	beta-BHC		2.1	U	
319-84-6	alpha-BHC		2.1	U	
319-86-8	delta-BHC		2.1	U	
58-89-9	gamma-BHC (Lindane)		2.1	U	
72-54-8	4,4'-DDD		4.1	U	
72-55-9	4,4'-DDE		4.1	U	
50-29-3	4,4'-DDT		0.67	J	
60-57-1	Dieldrin		4.1	U	
959-98-8	Endosulfan I		2.1	U	
33213-65-9	Endosulfan II		4.1	U	
1031-07-8	Endosulfan sulfate		4.1	U	
72-20-8	Endrin		4.1	U	
7421-93-4	Endrin Aldehyde		4.1	U	
76-44-8	Heptachlor		2.1	U	
1024-57-3	Heptachlor Epoxide		2.1	U	
72-43-5	Methoxychlor		21	U	
8001-35-2	Toxaphene		100	U	
53494-70-5	Endrin Ketone		4.1	U	
5103-74-2	gamma-Chlordane	2.1	~~0.55~~	~~JBP~~ U	2C
5103-71-9	alpha-Chlordane	2.1	~~0.26~~	~~JP~~ U	8C

FORM I PEST

SMM 8/21/2010

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

The following samples were re-analyzed at dilutions for pesticide compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
BBG-SS86-0-1-10B	10.0	4,4'-DDE, Dieldrin
BBG-SS84-0-1-10B	5.0	4,4'-DDE

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-SS86-0-1-10B	Heptachlor, alpha-Chlordane
BBG-SB86-3-4-10B	Alpha-Chlordane
BBG-SS84-0-1-10B	Alpha-Chlordane
BBG-SS71-0-1-10B	Heptachlor
BBG-SB71-4-5-10B	Heptachlor

Poor precision (greater than 70 % difference between results) was observed for the pesticide compounds presented in Table 4 on the dual chromatographic columns used for sample analysis. As required by

Table 4 Pesticide Results Qualified Due to Dual Column Imprecision

Sample	Affected Compounds
BBG-SB85-1.5-2.5-10B	beta-BHC, delta-BHC, Dieldrin, Endosulfan I, Endrin, Endrin Aldehyde
BBG-SS77-0-1-10B	delta-BHC, Dieldrin, gamma-Chlordane
BBG-SB77-3.5-4.5-10B	delta-BHC, alpha-Chlordane
BBG-SS79-0-1-10B	delta-BHC, Endosulfan II, Endrin, Heptachlor Epoxide, alpha-Chlordane
BBG-SS83-0-1-10B	delta-BHC,Endosulfan suldate, Heptachlor, Methoxychlor, Endrin ketone
BBG-SB83-6.5-7.5-10B	alpha-BHC
BBG-SS62-0-1-10B	Aldrin, beta-BHC, Dieldrin, Endosulfan I, Endosulfan Sulfate, Endrin, Endrin Aldehyde,Heptachlor, Heptachlor Epoxide, alpha-Chlordane
BBG-SS74-0-1-10B	beta-BHC, gamma-Chlordane
BBG-SS86-0-1-10B	Heptachlor Epoxide,
BBG-SB86-3-4-10B	gamma-Chlordane
BBG-SS84-0-1-10B	Aldrin, Dieldrin, Endrin Aldehyde,Heptachlor, Heptachlor Epoxide, gamma-Chlordane
BBG-SS81-0-1-10B	gamma-Chlordane
BBG-SB71-4-5-10B	gamma-Chlordane
BBG-SB71D-4-5-10B	gamma-Chlordance, alpha-Chlordane

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS83-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	~~0.48~~ 1.8	~~JP~~ U 2C
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	0.96	J
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	0.45	J
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	~~2.2~~ 3.5	~~JP~~ U 2C
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	~~0.21~~ 1.8	~~JP~~ U 2C
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	~~7.2~~ 18	~~JP~~ U 2C
8001-35-2	Toxaphene	88	U
53494-70-5	Endrin Ketone	~~2.4~~ 3.5	~~JP~~ U 2C
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	0.74	J

SMK 9.14.10

FORM I PEST

SMK 8/21/10

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005133
Fraction: Organic
Matrix: Solid
Report Date: 8/27/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. Two field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/29/2020

Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following compounds were detected in associated laboratory method and/or field blanks.

Blank	Compound	Concentration (µg/Kg)	Associated Samples
SBLKBP	Naphthalene	0.75	BBG-SS73-0-1-10B

The naphthalene result for samples BBG-SS73-0-1-10B is qualitatively invalid due to the presence of this compound in the associated laboratory method blank. USEPA protocol requires positive results for uncommon contaminants, such as naphthlene, that are less than or equal to five times

the associated blank contamination level, to be considered qualitatively invalid. The result for the sample is less than the reporting limit (RL). It has been replaced with the RL and marked "U".

7.0 *SURROGATE COMPOUNDS*

The positive results and/or RLs for pesticide compounds for the following samples should be considered quantitative estimates. Low recoveries were obtained for the surrogate compounds for the pesticide analyses of these samples. The laboratory did not re-extract and reanalyze the sample to determine whether the recovery was due to either a matrix interference or a laboratory problem.

Sample	Surrogate Compound	Column	Qualifying Action/ Flag (s)
BBG-SB72-2-3-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SB76-6-7-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SS87-0-1-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SS68-0-1-10B	Tetrachloro-m-xylene	Both	UJ Nondetects

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples BBG-SS61-0-1-10B and BBG-SS61D-0-1-10B, and BBG-SB61-6-7-10B and BBG-SB61D-6-7-10B were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for the duplicate samples are presented in Tables 2 and 3. No USEPA-established acceptance criteria exist for field duplicate samples. EDQ uses internal acceptance criteria of forty percent for detected extractable compounds to evaluate solid field duplicate samples.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

The 4, 4'-DDE result for sample BBG-SS88-0-1-10B should be considered a quantitative estimate. The response for this compound exceeded the linear range of the GC instrument for the initial undiluted analysis. The laboratory re-analyzed the sample at a ten-fold dilution. The dilution resulted in a response for affected compound below its detectable level. The affected compound result has been marked with a "J" qualifier to indicate that it is a quantitative estimate.

The following samples were re-analyzed at dilutions for pesticide compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
BBG-SS67-0-1-10B	10.0	4,4'-DDD, 4, 4'-DDE

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-SS75-0-1-10B	4,4'-DDE
BBG-SB75-3.5-4.5-10B	Alpha-Chlordane
BBG-SS63-0-1-10B	Heptachlor
BBG-SS61-0-1-10B	Endrin, Heptachlor
BBG-SS61D-0-1-10B	Heptachlor, Methoxychlor
BBG-SS87-0-1-10B	Endosulfan Sulfate, gamma-Chlordane
BBG-SB87-3-4-10B	alpha-BHC, Endrin Aldehyde, gamma-Chlordane
BBG-SS68-0-1-10B	Beta-BHC, Endrin, Endrin Aldehyde, Heptachlor

Poor precision (greater than 70 % difference between results) was observed for the pesticide compounds presented in Table 4 on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Polynuclear Aromatic Hydrocarbons	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Pesticide Compounds	Method 8081A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS73-0-1-10B	1005133	1005133-01	5/14/2010	Soil	X	X	X		X	X
BBG-SB74-4-5-10B	1005133	1005133-02	5/17/2010	Soil	X	X	X		X	X
BBG-SS75-0-1-10B	1005133	1005133-03	5/17/2010	Soil	X	X	X		X	X
BBG-SB75-3.5-4.5-10B	1005133	1005133-04	5/17/2010	Soil	X	X	X		X	X
BBG-SS63-0-1-10B	1005133	1005133-05	5/18/2010	Soil	X	X	X		X	X
BBG-SB63-5.5-6.5-10B	1005133	1005133-06	5/18/2010	Soil	X	X	X		X	X
BBG-SS61-0-1-10B	1005133	1005133-07	5/18/2010	Soil	X	X	X		X	X
BBG-SS61D-0-1-10B	1005133	1005133-08	5/18/2010	Soil	X	X	X		X	X
BBG-SB61-6-7-10B	1005133	1005133-09	5/18/2010	Soil	X	X	X		X	X
BBG-SB61D-6-7-10B	1005133	1005133-10	5/18/2010	Soil	X	X	X		X	X
BBG-SS67-0-1-10B	1005133	1005133-11	5/18/2010	Soil	X	X	X		X	X
BBG-SS72-0-1-10B	1005133	1005133-12	5/19/2010	Soil	X	X	X		X	X
BBG-SB72-2-3-10B	1005133	1005133-13	5/19/2010	Soil	X	X	X		X	X
BBG-SS88-0-1-10B	1005133	1005133-14	5/19/2010	Soil	X	X	X		X	X
BBG-SB88-2.5-3.5-10B	1005133	1005133-15	5/19/2010	Soil	X	X	X		X	X
BBG-SS76-0-1-10B	1005133	1005133-16	5/19/2010	Soil	X	X	X		X	X
BBG-SB76-6-7-10B	1005133	1005133-17	5/19/2010	Soil	X	X	X		X	X
BBG-SS87-0-1-10B	1005133	1005133-18	5/19/2010	Soil	X	X	X		X	X
BBG-SB87-3-4-10B	1005133	1005133-19	5/19/2010	Soil	X	X	X		X	X
BBG-SS68-0-1-10B	1005133	1005133-20	5/20/2010	Soil	X	X	X		X	X

Table 2 Field Duplicate Sample Results for Organic Analyses
Soil Duplicate Samples SS61-0-1 and SS61D-0-1

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)		RPD	ACTION
	SS61-0-1		SS61D-0-1			
Naphthalene	ND		0.8	J	NC	
4,4'-DDD	ND		0.63	J	NC	
Endrin	0.4	J	ND		NC	
Heptachlor	0.23	J	0.2	J	14	
Methoxychlor	12	J	6.5	J	59	

Table 3 Field Duplicate Sample Results for Organic Analyses
Soil Duplicate Samples SB61-6-7 and SB61D-6-7

Analyte	Sample Result (µg/Kg)	Field Duplicate Result (µg/Kg)		RPD	ACTION
	SB61-6-7	SB61D-6-7			
Naphthalene	ND	1.2	J	NC	

Table 4 Pesiticde Results Qualified Due to Dual Column Imprecision

Sample	Affected Compounds
BBG-SS73-0-1-10B	Aldrin, Heptachlor, Heptachlor Epoxide, Endrin Ketone, gamma-Chlordane
BBG-SS75-0-1-10B	delta-BHC, 4,4'-DDT, Endosulfan Sulfate, Heptachlor Epoxide
BBG-SB75-3.5-4.5-10B	Heptachlor Epoxide
BBG-SS63-0-1-10B	delta-BHC, Endrin Aldehyde, gamma-Chlordane, alpha-Endosulfan Sulfate, Endrin Ketone
BBG-SS61-0-1-10B	
BBG-SS61D-0-1-10B	gamma-Chlordance
BBG-SS67-0-1-10B	beta-BHC, alpha-BHC, delta-BHC, Endosulfan I, Endosulfan II, Endosulfan suldate, Heptachlor, Heptachlor Epoxide, Endrin ketone, gamma-Chlordane
BBG-SS72-0-1-10B	alpha-BHC
BBG-SS76-0-1-10B	Aldrin, 4,4'-DDT, Dieldrin, Endrin, Heptachlor Epoxide, Heptachlor
BBG-SB87-3-4-10B	
BBG-SS68-0-1-10B	4,4'-DDD, 4,4'-DDT, Endosulfan I, Endrin Ketone, gamma-Chlordane, alpha-Chlordane

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS73-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005133-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005133-01JC66
Analyst: 2743

% Moisture: 4 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051920-BLK1

Date Extracted: 05/20/10
Date Analyzed: 05/26/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.6	8.6 0.92	~~JB~~ U MB
91-57-6	2-Methylnaphthalene	0.71	8.6	ND	U
208-96-8	Acenaphthylene	0.56	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.47	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	1.6	J
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	4.0	J
129-00-0	Pyrene	0.59	8.6	3.7	J
56-55-3	Benzo(a)anthracene	0.59	8.6	2.5	J
218-01-9	Chrysene	0.66	8.6	2.5	J
205-99-2	Benzo(b)fluoranthene	0.59	8.6	2.7	J
207-08-9	Benzo(k)fluoranthene	0.45	8.6	2.5	J
50-32-8	Benzo(a)pyrene	0.40	8.6	2.4	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	1.6	J
53-70-3	Dibenzo(a,h)anthracene	0.35	8.6	0.45	J
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	1.2	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/19/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SB74-4-5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Lab Sample ID: 1005133-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005133-02J3A66
Analyst: OWS

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/30/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/20/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS75-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Lab Sample ID: 1005133-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005133-03C66
Analyst: 2743

% Moisture: 15 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.84	9.8	1.0	J
91-57-6	2-Methylnaphthalene	0.80	9.8	ND	U
208-96-8	Acenaphthylene	0.63	9.8	ND	U
83-32-9	Acenaphthene	0.71	9.8	ND	U
86-73-7	Fluorene	0.53	9.8	ND	U
85-01-8	Phenanthrene	1.5	9.8	1.6	J
120-12-7	Anthracene	0.51	9.8	ND	U
206-44-0	Fluoranthene	1.6	9.8	1.6	J
129-00-0	Pyrene	0.67	9.8	1.5	J
56-55-3	Benzo(a)anthracene	0.67	9.8	0.86	J
218-01-9	Chrysene	0.75	9.8	0.93	J
205-99-2	Benzo(b)fluoranthene	0.67	9.8	0.84	J
207-08-9	Benzo(k)fluoranthene	0.51	9.8	0.84	J
50-32-8	Benzo(a)pyrene	0.45	9.8	0.65	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.8	0.52	J
53-70-3	Dibenzo(a,h)anthracene	0.39	9.8	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.8	0.50	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 8/29/2011

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SB75-3.5-4.5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Lab Sample ID: 1005133-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005133-04JA66
Analyst: MEW

% Moisture: 15 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.84	9.8	ND	U
91-57-6	2-Methylnaphthalene	0.80	9.8	ND	U
208-96-8	Acenaphthylene	0.63	9.8	ND	U
83-32-9	Acenaphthene	0.71	9.8	ND	U
86-73-7	Fluorene	0.53	9.8	ND	U
85-01-8	Phenanthrene	1.5	9.8	ND	U
120-12-7	Anthracene	0.51	9.8	ND	U
206-44-0	Fluoranthene	1.6	9.8	ND	U
129-00-0	Pyrene	0.67	9.8	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.8	ND	U
218-01-9	Chrysene	0.75	9.8	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.8	ND	U
207-08-9	Benzo(k)fluoranthene	0.51	9.8	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.8	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.8	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.8	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.8	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS63-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005133-05
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005133-05C66
Analyst: 2743

% Moisture: 6 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.76	8.8	0.91	J
91-57-6	2-Methylnaphthalene	0.73	8.8	ND	U
208-96-8	Acenaphthylene	0.57	8.8	ND	U
83-32-9	Acenaphthene	0.64	8.8	ND	U
86-73-7	Fluorene	0.48	8.8	ND	U
85-01-8	Phenanthrene	1.4	8.8	2.0	J
120-12-7	Anthracene	0.46	8.8	ND	U
206-44-0	Fluoranthene	1.4	8.8	1.6	J
129-00-0	Pyrene	0.60	8.8	0.99	J
56-55-3	Benzo(a)anthracene	0.60	8.8	0.69	J
218-01-9	Chrysene	0.67	8.8	1.0	J
205-99-2	Benzo(b)fluoranthene	0.60	8.8	0.96	J
207-08-9	Benzo(k)fluoranthene	0.46	8.8	0.70	J
50-32-8	Benzo(a)pyrene	0.41	8.8	0.43	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.8	0.48	J
53-70-3	Dibenzo(a,h)anthracene	0.35	8.8	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.8	0.46	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SB63-5.5-6.5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005133-06
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005133-06A66
Analyst: MEW

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	ND	U
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	2.4	J
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	2.1	J
129-00-0	Pyrene	0.68	10	2.5	J
56-55-3	Benzo(a)anthracene	0.68	10	0.91	J
218-01-9	Chrysene	0.76	10	1.1	J
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS61-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005133-07
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005133-07A66
Analyst: MEW

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS61D-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005133-08
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005133-08A66
Analyst: MEW

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	0.80	J
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	ND	U
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	ND	U
129-00-0	Pyrene	0.61	8.9	ND	U
56-55-3	Benzo(a)anthracene	0.61	8.9	ND	U
218-01-9	Chrysene	0.68	8.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.61	8.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	8.9	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SB61-6-7

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005133-09
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005133-09A66
Analyst: MEW

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SB61D-6-7

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005133-10
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005133-10J3A66
Analyst: OWS

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/30/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	1.2	J
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS67-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005133-11
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-11J2A70
Analyst: OWS

% Moisture: 55 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK2

Date Extracted: 05/24/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.6	18	5.1	J
91-57-6	2-Methylnaphthalene	1.5	18	2.1	J
208-96-8	Acenaphthylene	1.2	18	ND	U
83-32-9	Acenaphthene	1.3	18	1.5	J
86-73-7	Fluorene	1.0	18	1.1	J
85-01-8	Phenanthrene	2.9	18	7.6	J
120-12-7	Anthracene	0.96	18	3.4	J
206-44-0	Fluoranthene	3.0	18	22	
129-00-0	Pyrene	1.3	18	17	J
56-55-3	Benzo(a)anthracene	1.3	18	6.3	J
218-01-9	Chrysene	1.4	18	9.8	J
205-99-2	Benzo(b)fluoranthene	1.3	18	7.8	J
207-08-9	Benzo(k)fluoranthene	0.96	18	4.7	J
50-32-8	Benzo(a)pyrene	0.85	18	5.7	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.81	18	11	J
53-70-3	Dibenzo(a,h)anthracene	0.74	18	ND	U
191-24-2	Benzo(g,h,i)perylene	0.85	18	2.3	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/24/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS72-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005133-12
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-12A66
Analyst: MEW

% Moisture: 4 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK1

Date Extracted: 05/24/10
Date Analyzed: 06/25/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.6	1.2	J
91-57-6	2-Methylnaphthalene	0.71	8.6	ND	U
208-96-8	Acenaphthylene	0.56	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.47	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	2.4	J
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	3.4	J
129-00-0	Pyrene	0.59	8.6	3.4	J
56-55-3	Benzo(a)anthracene	0.59	8.6	1.6	J
218-01-9	Chrysene	0.66	8.6	2.1	J
205-99-2	Benzo(b)fluoranthene	0.59	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/24/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SB72-2-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005133-13
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-13J2A70
Analyst: OWS

% Moisture: 13 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK2

Date Extracted: 05/24/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.82	9.5	0.97	J
91-57-6	2-Methylnaphthalene	0.79	9.5	ND	U
208-96-8	Acenaphthylene	0.61	9.5	ND	U
83-32-9	Acenaphthene	0.69	9.5	ND	U
86-73-7	Fluorene	0.52	9.5	ND	U
85-01-8	Phenanthrene	1.5	9.5	4.3	J
120-12-7	Anthracene	0.50	9.5	1.0	J
206-44-0	Fluoranthene	1.5	9.5	4.0	J
129-00-0	Pyrene	0.65	9.5	3.5	J
56-55-3	Benzo(a)anthracene	0.65	9.5	1.6	J
218-01-9	Chrysene	0.73	9.5	1.6	J
205-99-2	Benzo(b)fluoranthene	0.65	9.5	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.5	ND	U
50-32-8	Benzo(a)pyrene	0.44	9.5	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.42	9.5	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.38	9.5	ND	U
191-24-2	Benzo(g,h,i)perylene	0.44	9.5	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS88-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005133-14
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-14J2A70
Analyst: OWS

% Moisture: 9 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK2

Date Extracted: 05/24/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.79	9.1	1.2	J
91-57-6	2-Methylnaphthalene	0.75	9.1	ND	U
208-96-8	Acenaphthylene	0.59	9.1	1.2	J
83-32-9	Acenaphthene	0.66	9.1	ND	U
86-73-7	Fluorene	0.49	9.1	ND	U
85-01-8	Phenanthrene	1.4	9.1	2.4	J
120-12-7	Anthracene	0.48	9.1	0.62	J
206-44-0	Fluoranthene	1.5	9.1	3.9	J
129-00-0	Pyrene	0.62	9.1	3.5	J
56-55-3	Benzo(a)anthracene	0.62	9.1	2.3	J
218-01-9	Chrysene	0.70	9.1	3.2	J
205-99-2	Benzo(b)fluoranthene	0.62	9.1	3.1	J
207-08-9	Benzo(k)fluoranthene	0.48	9.1	2.4	J
50-32-8	Benzo(a)pyrene	0.42	9.1	2.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.1	6.7	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.1	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.1	2.9	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SB88-2.5-3.5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005133-15
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-15JA70
Analyst: OWS

% Moisture: 27 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK2

Date Extracted: 05/24/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.98	11	ND	U
91-57-6	2-Methylnaphthalene	0.94	11	ND	U
208-96-8	Acenaphthylene	0.73	11	ND	U
83-32-9	Acenaphthene	0.82	11	ND	U
86-73-7	Fluorene	0.62	11	ND	U
85-01-8	Phenanthrene	1.8	11	ND	U
120-12-7	Anthracene	0.59	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.78	11	ND	U
56-55-3	Benzo(a)anthracene	0.78	11	ND	U
218-01-9	Chrysene	0.87	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.78	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.59	11	ND	U
50-32-8	Benzo(a)pyrene	0.53	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.46	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.53	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS76-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005133-16
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-16JA70
Analyst: OWS

% Moisture: 3 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK2

Date Extracted: 05/24/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.74	8.6	ND	U
91-57-6	2-Methylnaphthalene	0.70	8.6	ND	U
208-96-8	Acenaphthylene	0.55	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.46	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	2.0	J
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	3.6	J
129-00-0	Pyrene	0.58	8.6	3.1	J
56-55-3	Benzo(a)anthracene	0.58	8.6	2.7	J
218-01-9	Chrysene	0.65	8.6	2.9	J
205-99-2	Benzo(b)fluoranthene	0.58	8.6	3.5	J
207-08-9	Benzo(k)fluoranthene	0.45	8.6	2.2	J
50-32-8	Benzo(a)pyrene	0.40	8.6	2.7	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.34	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SB76-6-7

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005133-17
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-17JA70
Analyst: OWS

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK2

Date Extracted: 05/24/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	ND	U
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS87-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005133-18
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-18JA70
Analyst: OWS

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK2

Date Extracted: 05/24/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	1.2	J
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	0.76	J
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	0.79	J
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	0.51	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/24/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SB87-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005133-19
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-19JA70
Analyst: OWS

% Moisture: 27 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK2

Date Extracted: 05/24/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.98	11	ND	U
91-57-6	2-Methylnaphthalene	0.94	11	ND	U
208-96-8	Acenaphthylene	0.73	11	ND	U
83-32-9	Acenaphthene	0.82	11	ND	U
86-73-7	Fluorene	0.62	11	ND	U
85-01-8	Phenanthrene	1.8	11	ND	U
120-12-7	Anthracene	0.59	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.78	11	ND	U
56-55-3	Benzo(a)anthracene	0.78	11	ND	U
218-01-9	Chrysene	0.87	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.78	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.59	11	ND	U
50-32-8	Benzo(a)pyrene	0.53	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.50	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.46	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.53	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005133
Client Sample ID: SS68-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005133-20
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005133-20JA70
Analyst: OWS

% Moisture: 15 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052409-BLK2

Date Extracted: 05/24/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.84	9.8	1.5	J
91-57-6	2-Methylnaphthalene	0.80	9.8	ND	U
208-96-8	Acenaphthylene	0.63	9.8	ND	U
83-32-9	Acenaphthene	0.71	9.8	ND	U
86-73-7	Fluorene	0.53	9.8	ND	U
85-01-8	Phenanthrene	1.5	9.8	2.4	J
120-12-7	Anthracene	0.51	9.8	ND	U
206-44-0	Fluoranthene	1.6	9.8	ND	U
129-00-0	Pyrene	0.67	9.8	1.3	J
56-55-3	Benzo(a)anthracene	0.67	9.8	0.68	J
218-01-9	Chrysene	0.75	9.8	1.3	J
205-99-2	Benzo(b)fluoranthene	0.67	9.8	1.6	J
207-08-9	Benzo(k)fluoranthene	0.51	9.8	0.61	J
50-32-8	Benzo(a)pyrene	0.45	9.8	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.8	5.1	J
53-70-3	Dibenzo(a,h)anthracene	0.39	9.8	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.8	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS73-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	1.8 ~~0.20~~	~~JP~~ U	2C
319-85-7	beta-BHC	1.8	U	
319-84-6	alpha-BHC	0.20	JP	2C
319-86-8	delta-BHC	1.8	U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
72-54-8	4,4'-DDD	7.5		
72-55-9	4,4'-DDE	14		
50-29-3	4,4'-DDT	18		
60-57-1	Dieldrin	0.88	J	
959-98-8	Endosulfan I	1.8	U	
33213-65-9	Endosulfan II	3.4	U	
1031-07-8	Endosulfan sulfate	3.4	U	
72-20-8	Endrin	3.4	U	
7421-93-4	Endrin Aldehyde	3.4	U	
76-44-8	Heptachlor	1.8 ~~0.21~~	~~JP~~ U	2C
1024-57-3	Heptachlor Epoxide	1.8 ~~0.20~~	~~JP~~ U	2C
72-43-5	Methoxychlor	18	U	
8001-35-2	Toxaphene	86	U	
53494-70-5	Endrin Ketone	3.4 ~~1.8~~ 0.83	~~JP~~ U	2C
5103-74-2	gamma-Chlordane	1.8 ~~0.24~~	~~JP~~ U	2C
5103-71-9	alpha-Chlordane	0.91	~~JP~~	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB74-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	0.86	J
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	0.23	J
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

SMK 6/28/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS75-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/03/10

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.0	U	
319-85-7	beta-BHC	2.0	U	
319-84-6	alpha-BHC	2.0	U	
319-86-8	delta-BHC	2.0	U	
58-89-9	gamma-BHC (Lindane)	~~0.40~~	~~JP~~ U	2C
72-54-8	4,4'-DDD	2.0	U	
72-55-9	4,4'-DDE	3.9	U	
50-29-3	4,4'-DDT	1.0	JP	2C
60-57-1	Dieldrin	~~1.9~~	~~JP~~ U	2C
959-98-8	Endosulfan I	3.9	U	
33213-65-9	Endosulfan II	2.0	U	
1031-07-8	Endosulfan sulfate	17		
72-20-8	Endrin	~~2.4~~	~~JP~~ U	2C
7421-93-4	Endrin Aldehyde	1.9	J	
76-44-8	Heptachlor	3.9	U	
1024-57-3	Heptachlor Epoxide	2.0	U	
72-43-5	Methoxychlor	~~0.30~~	~~JP~~ U	2C
8001-35-2	Toxaphene	20	U	
53494-70-5	Endrin Ketone	98	U	
5103-74-2	gamma-Chlordane	3.9	U	
5103-71-9	alpha-Chlordane	2.0	U	
		2.0	U	

FORM I PEST

SMT 8/24/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB75-3.5-4.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.0	U	
319-85-7	beta-BHC	2.0	U	
319-84-6	alpha-BHC	2.0	U	
319-86-8	delta-BHC	2.0	U	
58-89-9	gamma-BHC (Lindane)	2.0	U	
72-54-8	4,4'-DDD	3.9	U	
72-55-9	4,4'-DDE	3.9	U	
50-29-3	4,4'-DDT	3.9	U	
60-57-1	Dieldrin	3.9	U	
959-98-8	Endosulfan I	3.9	U	
33213-65-9	Endosulfan II	2.0	U	
1031-07-8	Endosulfan sulfate	3.9	U	
72-20-8	Endrin	3.9	U	
7421-93-4	Endrin Aldehyde	3.9	U	
76-44-8	Heptachlor	3.9	U	
1024-57-3	Heptachlor Epoxide	2.0	U	
72-43-5	Methoxychlor	2.0 0.27 ~~JP~~	U	2C
8001-35-2	Toxaphene	20	U	
53494-70-5	Endrin Ketone	98	U	
5103-74-2	gamma-Chlordane	3.9	U	
5103-71-9	alpha-Chlordane	2.0	U	
		0.29	JP	2C

FORM I PEST

SMM 8/19/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS63-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		0.40	J	
319-85-7	beta-BHC		1.8	U	
319-84-6	alpha-BHC		1.8	U	
319-86-8	delta-BHC		1.8	U	
58-89-9	gamma-BHC (Lindane)	1.8	~~0.46~~ ~~JP~~ U		2C
72-54-8	4,4'-DDD		1.8	U	
72-55-9	4,4'-DDE		3.5	U	
50-29-3	4,4'-DDT		0.60	J	
60-57-1	Dieldrin		3.5	U	
959-98-8	Endosulfan I		3.5	U	
33213-65-9	Endosulfan II		1.5	J	
1031-07-8	Endosulfan sulfate		3.5	U	
72-20-8	Endrin		2.3	J	
7421-93-4	Endrin Aldehyde		3.5	U	
76-44-8	Heptachlor	3.5	~~1.3~~ ~~JP~~ U		2C
1024-57-3	Heptachlor Epoxide		0.36	JP	2C
72-43-5	Methoxychlor		1.8	U	
8001-35-2	Toxaphene		18	U	
53494-70-5	Endrin Ketone		88	U	
5103-74-2	gamma-Chlordane		3.5	U	
5103-71-9	alpha-Chlordane	1.8	~~0.40~~ ~~JP~~ U		2C
		1.8	~~0.41~~ ~~JP~~ U		2C

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB63-5.5-6.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	0.93	J
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS61-0-1

ab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	1.8	U	
319-85-7	beta-BHC	1.8	U	
319-84-6	alpha-BHC	1.8	U	
319-86-8	delta-BHC	1.8	U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
72-54-8	4,4'-DDD	3.6	U	
72-55-9	4,4'-DDE	3.6	U	
50-29-3	4,4'-DDT	3.6	U	
60-57-1	Dieldrin	3.6	U	
959-98-8	Endosulfan I	1.8	U	
33213-65-9	Endosulfan II	3.6	U	
1031-07-8	Endosulfan sulfate	~~3.6~~ 0.38	~~JP~~ U	2C
72-20-8	Endrin	0.40	JP	2C
7421-93-4	Endrin Aldehyde	3.6	U	
76-44-8	Heptachlor	0.23	JP	2C
1024-57-3	Heptachlor Epoxide	1.8	U	
72-43-5	Methoxychlor	12	J	
8001-35-2	Toxaphene	90	U	
53494-70-5	Endrin Ketone	3.6 ~~0.52~~	~~JP~~ U	2C
5103-74-2	gamma-Chlordane	1.8	U	
5103-71-9	alpha-Chlordane	1.8	U	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS61D-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin		1.8	U
319-85-7	beta-BHC		1.8	U
319-84-6	alpha-BHC		1.8	U
319-86-8	delta-BHC		1.8	U
58-89-9	gamma-BHC (Lindane)		1.8	U
72-54-8	4,4'-DDD		0.63	J
72-55-9	4,4'-DDE		3.5	U
50-29-3	4,4'-DDT		3.5	U
60-57-1	Dieldrin		3.5	U
959-98-8	Endosulfan I		1.8	U
33213-65-9	Endosulfan II		3.5	U
1031-07-8	Endosulfan sulfate		3.5	U
72-20-8	Endrin		3.5	U
7421-93-4	Endrin Aldehyde		3.5	U
76-44-8	Heptachlor		0.20	JP 2C
1024-57-3	Heptachlor Epoxide		1.8	U
72-43-5	Methoxychlor		6.5	JP 2C
8001-35-2	Toxaphene		89	U
53494-70-5	Endrin Ketone		3.5	U
5103-74-2	gamma-Chlordane	1.8	~~0.19~~	~~JP~~ U 2C
5103-71-9	alpha-Chlordane		1.8	U

FORM I PEST

SMK 6/30/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB61-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	3.8	U
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

8/24/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB61D-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	3.8	U
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS67-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 55 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/10

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.2	J
319-85-7	beta-BHC	~~1.2~~	~~JP~~ U
319-84-6	alpha-BHC	~~0.56~~	~~JP~~ U
319-86-8	delta-BHC	~~0.40~~	~~JP~~ U
58-89-9	gamma-BHC (Lindane)	3.8	UJ
72-54-8	4,4'-DDD	200	E
72-55-9	4,4'-DDE	300	EP
50-29-3	4,4'-DDT	47	J
60-57-1	Dieldrin	7.3	U
959-98-8	Endosulfan I	~~3.4~~	~~JP~~ U
33213-65-9	Endosulfan II	~~6.2~~	~~JP~~ U
1031-07-8	Endosulfan sulfate	~~1.6~~	~~JP~~ U
72-20-8	Endrin	7.3	U
7421-93-4	Endrin Aldehyde	4.7	J
76-44-8	Heptachlor	~~0.86~~	~~JP~~ U
1024-57-3	Heptachlor Epoxide	~~2.1~~	~~JP~~ U
72-43-5	Methoxychlor	38	U
8001-35-2	Toxaphene	180	U
53494-70-5	Endrin Ketone	43	P
5103-74-2	gamma-Chlordane	~~1.5~~	~~JP~~ U
5103-71-9	alpha-Chlordane	3.8	U

FORM I PEST

SM 8/29/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS67-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-11RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 55 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	38	U
319-85-7	beta-BHC	38	U
319-84-6	alpha-BHC	38	U
319-86-8	delta-BHC	38	U
58-89-9	gamma-BHC (Lindane)	38	U
72-54-8	4,4'-DDD	170	D
72-55-9	4,4'-DDE	410	D
50-29-3	4,4'-DDT	44	DJ
60-57-1	Dieldrin	73	U
959-98-8	Endosulfan I	4.4	DJP
33213-65-9	Endosulfan II	73	U
1031-07-8	Endosulfan sulfate	73	U
72-20-8	Endrin	73	U
7421-93-4	Endrin Aldehyde	73	U
76-44-8	Heptachlor	38	U
1024-57-3	Heptachlor Epoxide	38	U
72-43-5	Methoxychlor	380	U
8001-35-2	Toxaphene	1800	U
53494-70-5	Endrin Ketone	73	U
5103-74-2	gamma-Chlordane	38	U
5103-71-9	alpha-Chlordane	38	U

X DL

X DL

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS72-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8 0.18 ~~UP~~	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

2C

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB72-2-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U J
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	3.8	U
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	95	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

SSC

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS88-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 06/11/10

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.1	J
72-55-9	4,4'-DDE	31	E
50-29-3	4,4'-DDT	2.1	J
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

X JX LR

FORM I PEST

8/24/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS88-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-14RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin	19	U	X
319-85-7	beta-BHC	19	U	
319-84-6	alpha-BHC	19	U	
319-86-8	delta-BHC	19	U	
58-89-9	gamma-BHC (Lindane)	19	U	
72-54-8	4,4'-DDD	36	U	
72-55-9	4,4'-DDE	31	D	
50-29-3	4,4'-DDT	36	U	
60-57-1	Dieldrin	36	U	
959-98-8	Endosulfan I	19	U	
33213-65-9	Endosulfan II	36	U	
1031-07-8	Endosulfan sulfate	36	U	
72-20-8	Endrin	36	U	
7421-93-4	Endrin Aldehyde	36	U	
76-44-8	Heptachlor	19	U	
1024-57-3	Heptachlor Epoxide	19	U	
72-43-5	Methoxychlor	190	U	
8001-35-2	Toxaphene	910	U	
53494-70-5	Endrin Ketone	36	U	
5103-74-2	gamma-Chlordane	19	U	
5103-71-9	alpha-Chlordane	19	U	

FORM I PEST

SMM 8/29/2012

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB88-2.5-3.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 27 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.3	U
319-85-7	beta-BHC	2.3	U
319-84-6	alpha-BHC	2.3	U
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
72-54-8	4,4'-DDD	4.5	U
72-55-9	4,4'-DDE	0.98	J
50-29-3	4,4'-DDT	4.5	U
60-57-1	Dieldrin	4.5	U
959-98-8	Endosulfan I	2.3	U
33213-65-9	Endosulfan II	4.5	U
1031-07-8	Endosulfan sulfate	4.5	U
72-20-8	Endrin	4.5	U
7421-93-4	Endrin Aldehyde	4.5	U
76-44-8	Heptachlor	2.3	U
1024-57-3	Heptachlor Epoxide	2.3	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.5	U
5103-74-2	gamma-Chlordane	2.3	U
5103-71-9	alpha-Chlordane	2.3	U

FORM I PEST

SMT 8/9/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS76-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 2 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q		
309-00-2	Aldrin	0.28	JP	X	RE
319-85-7	beta-BHC	1.7	U		
319-84-6	alpha-BHC	1.7	U		
319-86-8	delta-BHC	1.7	U		
58-89-9	gamma-BHC (Lindane)	1.7	U		
72-54-8	4,4'-DDD	3.4	U		
72-55-9	4,4'-DDE	0.67	JP		
50-29-3	4,4'-DDT	1.3	JP		
60-57-1	Dieldrin	0.68	JP		
959-98-8	Endosulfan I	1.7	U		
33213-65-9	Endosulfan II	3.4	U		
1031-07-8	Endosulfan sulfate	3.4	U		
72-20-8	Endrin	1.3	JP		
7421-93-4	Endrin Aldehyde	3.4	U		
76-44-8	Heptachlor	0.42	J		
1024-57-3	Heptachlor Epoxide	1.7	U		
72-43-5	Methoxychlor	17	U		
8001-35-2	Toxaphene	85	U		
53494-70-5	Endrin Ketone	3.4	U		
5103-74-2	gamma-Chlordane	5.5	P		
5103-71-9	alpha-Chlordane	1.7	U		

FORM I PEST

8/9/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS76-0-1RE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-16RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 2 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	1.7	~~0.23 JP~~ U	2C
319-85-7	beta-BHC		1.7 U	
319-84-6	alpha-BHC		1.7 U	
319-86-8	delta-BHC		1.7 U	
58-89-9	gamma-BHC (Lindane)		1.7 U	
72-54-8	4,4'-DDD		3.4 U	
72-55-9	4,4'-DDE		0.89 J	
50-29-3	4,4'-DDT	3.4	~~1.5 JP~~ U	2C
60-57-1	Dieldrin	3.4	~~1.8 JP~~ U	2C
959-98-8	Endosulfan I		1.7 U	
33213-65-9	Endosulfan II		3.4 U	
1031-07-8	Endosulfan sulfate		3.4 U	
72-20-8	Endrin	3.4	~~1.3 JP~~ U	2C
7421-93-4	Endrin Aldehyde		3.4 U	
76-44-8	Heptachlor		1.7 U	
1024-57-3	Heptachlor Epoxide	1.7	~~0.34 JP~~ U	2C
72-43-5	Methoxychlor		17 U	
8001-35-2	Toxaphene		85 U	
53494-70-5	Endrin Ketone		3.4 U	
5103-74-2	gamma-Chlordane		1.7 U	
5103-71-9	alpha-Chlordane		1.7 U	

FORM I PEST

SMT 6/17/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS76-0-1REDL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-16RE2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 2 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin	8.7	U	X
319-85-7	beta-BHC	8.7	U	
319-84-6	alpha-BHC	8.7	U	
319-86-8	delta-BHC	8.7	U	
58-89-9	gamma-BHC (Lindane)	8.7	U	
72-54-8	4,4'-DDD	17	U	
72-55-9	4,4'-DDE	17	U	
50-29-3	4,4'-DDT	2.6	DJ	
60-57-1	Dieldrin	17	U	
959-98-8	Endosulfan I	8.7	U	
33213-65-9	Endosulfan II	17	U	
1031-07-8	Endosulfan sulfate	17	U	
72-20-8	Endrin	17	U	
7421-93-4	Endrin Aldehyde	17	U	
76-44-8	Heptachlor	8.7	U	
1024-57-3	Heptachlor Epoxide	8.7	U	
72-43-5	Methoxychlor	87	U	
8001-35-2	Toxaphene	420	U	
53494-70-5	Endrin Ketone	17	U	
5103-74-2	gamma-Chlordane	8.7	U	
5103-71-9	alpha-Chlordane	8.7	U	

FORM I PEST

SMT 8/9/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB76-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U J
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

SSL

FORM I PEST

Sml 8/19/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS87-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U J
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	1.2	JP
72-20-8	Endrin	4.1	U J
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	0.29	JP
5103-71-9	alpha-Chlordane	2.1	U J

SSL SC SC SSL

FORM I PEST

SMK 8/24/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB87-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 26 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.3	U	
319-85-7	beta-BHC	2.3	U	
319-84-6	alpha-BHC	0.27	JP	2C
319-86-8	delta-BHC	2.3	U	
58-89-9	gamma-BHC (Lindane)	2.3	U	
72-54-8	4,4'-DDD	4.5	U	
72-55-9	4,4'-DDE	4.5	U	
50-29-3	4,4'-DDT	4.5	U	
60-57-1	Dieldrin	4.5	U	
959-98-8	Endosulfan I	4.5	U	
33213-65-9	Endosulfan II	2.3	U	
1031-07-8	Endosulfan sulfate	4.5	U	
72-20-8	Endrin	4.5	U	
7421-93-4	Endrin Aldehyde	4.5	U	
76-44-8	Heptachlor	0.52	JP	2C
1024-57-3	Heptachlor Epoxide	2.3 ~~0.23~~	~~JP~~ U	2C
72-43-5	Methoxychlor	2.3	U	
8001-35-2	Toxaphene	23	U	
53494-70-5	Endrin Ketone	110	U	
5103-74-2	gamma-Chlordane	4.5	U	
5103-71-9	alpha-Chlordane	0.26	JP	2C
		0.28	J	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS68-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	0.34	JP
319-85-7	beta-BHC	2.0	P
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	0.69	JP
58-89-9	gamma-BHC (Lindane)	0.36	JP
72-54-8	4,4'-DDD	0.90	JP
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	3.9	U
60-57-1	Dieldrin	0.64	JP
959-98-8	Endosulfan I	3.1	P
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	6.9	
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.2	JP
76-44-8	Heptachlor	1.6	J
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	15	J
8001-35-2	Toxaphene	98	U
53494-70-5	Endrin Ketone	22	P
5103-74-2	gamma-Chlordane	1.8	JP
5103-71-9	alpha-Chlordane	1.2	JP

X RE

FORM I PEST

SMA 8/29/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS68-0-1RE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-20RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin		2.0	U
319-85-7	beta-BHC		0.47	JP
319-84-6	alpha-BHC		2.0	U
319-86-8	delta-BHC		0.35	J
58-89-9	gamma-BHC (Lindane)		2.0	U
72-54-8	4,4'-DDD	3.9	~~2.5~~	~~JP~~ U
72-55-9	4,4'-DDE		3.9	U
50-29-3	4,4'-DDT	3.9	~~0.73~~	~~JP~~ U
60-57-1	Dieldrin		0.57	J
959-98-8	Endosulfan I	2.0	~~0.94~~	~~JP~~ U
33213-65-9	Endosulfan II		3.9	U
1031-07-8	Endosulfan sulfate		8.4	
72-20-8	Endrin		1.1	JP
7421-93-4	Endrin Aldehyde		1.6	JP
76-44-8	Heptachlor		0.37	JP
1024-57-3	Heptachlor Epoxide		2.0	U
72-43-5	Methoxychlor		20	U
8001-35-2	Toxaphene		98	U
53494-70-5	Endrin Ketone		6.5	U
5103-74-2	gamma-Chlordane	2.0	~~0.45~~	~~JP~~ U
5103-71-9	alpha-Chlordane	2.0	~~0.23~~	~~JP~~ U

FORM I PEST

smt 6/21/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS68-0-1REDL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix: (soil/water) SOIL Lab Sample ID: 1005133-20RE2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	10	U
319-85-7	beta-BHC	10	U
319-84-6	alpha-BHC	10	U
319-86-8	delta-BHC	10	U
58-89-9	gamma-BHC (Lindane)	10	U
72-54-8	4,4'-DDD	10	U
72-55-9	4,4'-DDE	19	U
50-29-3	4,4'-DDT	19	U
60-57-1	Dieldrin	19	U
959-98-8	Endosulfan I	19	U
33213-65-9	Endosulfan II	2.0	DJP
1031-07-8	Endosulfan sulfate	19	U
72-20-8	Endrin	9.9	DJ
7421-93-4	Endrin Aldehyde	19	U
76-44-8	Heptachlor	19	U
1024-57-3	Heptachlor Epoxide	10	U
72-43-5	Methoxychlor	10	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	490	U
5103-74-2	gamma-Chlordane	9.4	DJP
5103-71-9	alpha-Chlordane	10	U
		10	U

X

DL

FORM I PEST

SMT 6/24/10

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

The positive results and reporting limits (RLs) for polynuclear aromatic hydrocarbons for samples BBG-SS32-0-1-10B, BBG-SB32-2.5-3.5-10B, BBG-SB50-1-2-10B, BBG-SS44-0-1-10B, and BBG-SS32D-0-1-10B should be considered biased quantitative estimates, and may be higher than reported. The laboratory re-extracted these samples one day outside of the technical holding time of 14 days. Because the sample was re-extracted outside of holding times, biological or chemical degradation may have occurred. Positive results for polynuclear aromatic hydrocarbons have been marked with "J" qualifiers to indicate that they are quantitative estimates. RLs have been marked "UJ".

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following compounds were detected in associated laboratory method and/or field blanks.

Sample	Affected Compounds
BBG-SS02D-0-1-10B	Heptachlor, gamma-Chlordane, alpha-Chlordane
BBG-SB02D-5-6-10B	gamma-Chlordane
BBG-SS31-0-1-10B	Endosulfan Sulfate
BBG-SS32-0-1-10B	Endosulfan Sulfate
BBG-SS32D-0-1-10B	Heptachlor
BBG-SS32D-0-1-10B	Methoxychlor
BBG-SB12-2-3-10B	4,4'-DDT
BBG-SS44-0-1-10B	Endosulfan I, Endrin Ketone

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005134
Fraction: Organic
Matrix: Solid
Report Date: 8/30/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. Four field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

Blank	Compound	Concentration (µg/Kg)	Associated Samples
SBLKOC	Naphthalene	0.74	BBG-SS32-0-1-10B, BBG-SS32D-0-1-10B, BBG-SB32-2.5-3.5-10B, BBG-SB32D-2.5-3.5-10B, BBG-SB50-1-2-10B, BBG-SS12-0-1-10B, BBG-SB12-2-3-10B, BBG-SS44-0-1-10B, BBG-SB43-3-4-10B
SBLKBP	Naphthalene	0.84	BBG-SS02-0-1-10B, BBG-SB02-5-6-10B, , BBG-SS02D-0-1-10B, BBG-SB02D-5-6-10B, BBG-SB05-7-8-10B

The naphthalene results for samples BBG-SB02D-5-6-10B, BBG-SS32-0-1-10B, BBG-SS32D-0-1-10B, BBG-SB32-2.5-3.5-10B, BBG-SB50-1-2-10B, BBG-SS44-0-1-10B, and BBG-SS43-0-1-10Bare qualitatively invalid due to the presence of this compound in the associated laboratory method blank. USEPA protocol requires positive results for uncommon contaminants, such as naphthalene, that are less than or equal to five times the associated blank contamination level, to be considered qualitatively invalid. The result for the sample is less than the reporting limit (RL). It has been replaced with the RL and marked "U".

7.0 SURROGATE COMPOUNDS

The positive results and/or RLs for pesticide compounds for the following samples should be considered quantitative estimates. Low recoveries were obtained for the surrogate compounds for the pesticide analyses of these samples.

Sample	Surrogate Compound	Column	Qualifying Action/ Flag (s)
BBG-SS02-0-1-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SB05-7-8-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SS33-0-1-10B	Tetrachloro-m-xylene	Both	J Positive results, UJ Nondetects
BBG-SB32-2.5-3.5-10B	Tetrachloro-m-xylene	Both	J Positive results, UJ Nondetects
BBG-SB32D-2.5-3.5-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SB50-1-2-10B	Tetrachloro-m-xylene	Both	J Positive results, UJ Nondetects
BBG-SS44-0-1-10B	Tetrachloro-m-xylene	Both	J Positive results, UJ Nondetects
BBG-SB44-5-6-10B	Tetrachloro-m-xylene	Both	J Positive results, UJ Nondetects
BBG-SS43-0-1-10B	Decachlorobiphenyl, Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SB43-3-4-10B	Tetrachloro-m-xylene	Both	J Positive results, UJ Nondetects

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples BBG-SB02-5-6-10B and BBG-SB02D-5-6-10B, BBG-SB32-2.5-3.5-10B and BBG-SB32D-2.5-3.5-10B, BBG-SS02-0-1-10B and BBG-SS02D-0-1-10B, and BBG-SS32-0-1-10B and BBG-SS32D-0-1-10B were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for the duplicate samples are presented in Tables 2 through 5. No USEPA-established acceptance criteria exist for field duplicate samples. EDQ uses internal acceptance criteria of forty percent for detected extractable compounds to evaluate solid field duplicate samples.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-SS02-0-1-10B	Heptachlor
BBG-SB02-5-6-10B	Heptachlor
BBG-SS31-0-1-10B	Gamma-BHC, 4,4'-DDD, Endrin Ketone
BBG-SS32D-0-1-10B	Endrin
BBG-SS44-0-1-10B	Beta-BHC, alpha-Chlordane

Poor precision (greater than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than

Sample	Affected Compounds
BBG-SS02D-0-1-10B	Heptachlor, gamma-Chlordane, alpha-Chlordane
BBG-SB02D-5-6-10B	gamma-Chlordane
BBG-SS31-0-1-10B	Endosulfan Sulfate
BBG-SS32-0-1-10B	Endosulfan Sulfate
BBG-SS32D-0-1-10B	Heptachlor
BBG-SS32D-0-1-10B	beta-BHC, 4,4'-DDT
BBG-SB12-2-3-10B	4,4'-DDT
BBG-SS44-0-1-10B	Endosulfan I, Endrin Ketone

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS44-0-1-10B	1005134	1005134-17RE1	5/20/2010	Soil	X					
BBG-SB44-5-6-10B	1005134	1005134-18	5/20/2010	Soil	X	X	X			X
BBG-SB44-5-6-10B	1005134	1005134-18RE1	5/20/2010	Soil	X					
BBG-SS43-0-1-10B	1005134	1005134-19	5/20/2010	Soil	X	X	X			X
BBG-SB43-3-4-10B	1005134	1005134-20	5/20/2010	Soil	X	X	X			X

Table 2 **Field Duplicate Sample Results for Organic Analyses**
Soil Duplicate Samples BBG-SB02-5-6-10B and BBG-SB02D-5-6-10B

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)		RPD	ACTION
	BBG-SB02-5-6-10B		BBG-SB02D-5-6-10B			
Phenanthrene	ND		1.7	J	NC	
Anthracene	0.56	J	ND		NC	
Pyrene	0.93	J	1.2	J	25	
Benzo (a) anthracene	1.2	J	ND		NC	
Chrysene	1	J	ND		NC	
Benzo (b) fluoranthene	1.1	J	ND		NC	
Benzo (k) fluoranthene	1	J	ND		NC	
Benzo (a) pyrene	1	J	ND		NC	
Indeno (1,2,3-cd) pyrene	0.78	J	ND		NC	
Dibenzo (a,h) anthracene	0.72	J	ND		NC	
Benzo (g,h,i) perylene	0.66	J	ND		NC	
Heptachlor	0.3	J	0.35	J	15	

Table 3 Field Duplicate Sample Results for Organic Analyses
Soil Duplicate Samples BBG-SB32-2.5-3.5-10B and BBG-SB32D-2.5-3.5-10B

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)	RPD	ACTION
	BBG-SB32-2.5-3.5-10B		BBG-SB32D-2.5-3.5-10B		
Indeno (1,2,3-cd) pyrene	4.2	J	ND	NC	
4,4'-DDT	0.67	J	ND	NC	

Table 4 **Field Duplicate Sample Results for Organic Analyses**
Soil Duplicate Samples BBG-SS02-0-1-10B and BBG-SS02D-0-1-10B

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)		RPD	ACTION
	BBG-SS02-0-1-10B		BBG-SS02D-0-1-10B			
Pyrene	0.89	J	ND		NC	
Benzo (b) fluoranthene	0.8	J	ND		NC	
Benzo (k) fluoranthene	0.6	J	0.5	J	18	
Benzo (a) pyrene	0.48	J	ND		NC	
Indeno (1,2,3-cd) pyrene	0.45	J	ND		NC	
delta-BHC	ND		0.47	J	NC	
Heptachlor	0.29	J	ND		NC	
gamma-Chlordane	ND		ND		NC	
alpha-Chlordane	ND		ND		NC	

Table 5 **Field Duplicate Sample Results for Organic Analyses**
Soil Duplicate Samples BBG-SS32-0-1-10B and BBG-SS32D-0-1-10B

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)		RPD	ACTION
	BBG-SS32-0-1-10B		BBG-SS32D-0-1-10B			
Indeno (1,2,3-cd) pyrene	4	J	3.9	J	3	
4,4'-DDD	0.39	J	ND		NC	
Endrin	ND		1.4	J	NC	
Endrin Ketone	0.91	J	2.8	J	102	
alpha-Chlordane	0.34	J	ND		NC	

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS02-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005134-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005134-01A66
Analyst: 2730

% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051920-BLK1

Date Extracted: 05/20/10
Date Analyzed: 05/26/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	ND	U
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	0.89	J
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	0.80	J
207-08-9	Benzo(k)fluoranthene	0.52	9.9	0.60	J
50-32-8	Benzo(a)pyrene	0.46	9.9	0.48	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	0.45	J
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS02D-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005134-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005134-02A66
Analyst: 2730

% Moisture: 12 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051920-BLK1

Date Extracted: 05/20/10
Date Analyzed: 05/26/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.4	ND	U
91-57-6	2-Methylnaphthalene	0.78	9.4	ND	U
208-96-8	Acenaphthylene	0.61	9.4	ND	U
83-32-9	Acenaphthene	0.68	9.4	ND	U
86-73-7	Fluorene	0.51	9.4	ND	U
85-01-8	Phenanthrene	1.5	9.4	ND	U
120-12-7	Anthracene	0.49	9.4	ND	U
206-44-0	Fluoranthene	1.5	9.4	ND	U
129-00-0	Pyrene	0.64	9.4	ND	U
56-55-3	Benzo(a)anthracene	0.64	9.4	ND	U
218-01-9	Chrysene	0.72	9.4	ND	U
205-99-2	Benzo(b)fluoranthene	0.64	9.4	ND	U
207-08-9	Benzo(k)fluoranthene	0.49	9.4	0.50	J
50-32-8	Benzo(a)pyrene	0.44	9.4	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.42	9.4	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.38	9.4	ND	U
191-24-2	Benzo(g,h,i)perylene	0.44	9.4	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMT 6/8/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

lient Project ID:
_lient SDG No: 1005134
Client Sample ID: SB02-5-6

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005134-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005134-03JC66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051920-BLK1

Date Extracted: 05/20/10
Date Analyzed: 05/26/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	0.56	J
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	0.93	J
56-55-3	Benzo(a)anthracene	0.71	10	1.2	J
218-01-9	Chrysene	0.79	10	1.0	J
205-99-2	Benzo(b)fluoranthene	0.71	10	1.1	J
207-08-9	Benzo(k)fluoranthene	0.54	10	1.0	J
50-32-8	Benzo(a)pyrene	0.48	10	1.0	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	0.78	J
53-70-3	Dibenzo(a,h)anthracene	0.42	10	0.72	J
191-24-2	Benzo(g,h,i)perylene	0.48	10	0.66	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 8/4/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB02D-5-6

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005134-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005134-04JC66
Analyst: 2743

% Moisture: 22 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051920-BLK1

Date Extracted: 05/20/10
Date Analyzed: 05/26/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.92	11	~~0.96~~	JB
91-57-6	2-Methylnaphthalene	0.88	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.77	11	ND	U
86-73-7	Fluorene	0.58	11	ND	U
85-01-8	Phenanthrene	1.7	11	1.7	J
120-12-7	Anthracene	0.56	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.73	11	1.2	J
56-55-3	Benzo(a)anthracene	0.73	11	ND	U
218-01-9	Chrysene	0.81	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.73	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.56	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.47	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.43	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

U MB

FORM I SV-1

8/18/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

lient Project ID:
Client SDG No: 1005134
Client Sample ID: SB05-7-8

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005134-05
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005134-05JC66
Analyst: 2743

% Moisture: 28 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051920-BLK1

Date Extracted: 05/20/10
Date Analyzed: 05/26/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.00	12	ND	U
91-57-6	2-Methylnaphthalene	0.95	12	ND	U
208-96-8	Acenaphthylene	0.74	12	ND	U
83-32-9	Acenaphthene	0.83	12	ND	U
86-73-7	Fluorene	0.63	12	ND	U
85-01-8	Phenanthrene	1.8	12	ND	U
120-12-7	Anthracene	0.60	12	ND	U
206-44-0	Fluoranthene	1.9	12	ND	U
129-00-0	Pyrene	0.79	12	ND	U
56-55-3	Benzo(a)anthracene	0.79	12	ND	U
218-01-9	Chrysene	0.88	12	ND	U
205-99-2	Benzo(b)fluoranthene	0.79	12	ND	U
207-08-9	Benzo(k)fluoranthene	0.60	12	ND	U
50-32-8	Benzo(a)pyrene	0.53	12	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.51	12	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.46	12	ND	U
191-24-2	Benzo(g,h,i)perylene	0.53	12	ND	U

ND = Not Detected
Q = Qualifier

SMM 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS33-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Lab Sample ID: 1005134-06
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-06A66
Analyst: 2650

% Moisture: 22 decanted: (Y/N) Y
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK1

Date Extracted: 05/25/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.92	11	ND	U
91-57-6	2-Methylnaphthalene	0.88	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.77	11	ND	U
86-73-7	Fluorene	0.58	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.56	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.73	11	ND	U
56-55-3	Benzo(a)anthracene	0.73	11	ND	U
218-01-9	Chrysene	0.81	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.73	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.56	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.47	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.43	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS33-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Lab Sample ID: 1005134-06RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-06RA70
Analyst: MEW

% Moisture: 22 decanted: (Y/N) Y
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/30/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.92	11	3.5	JB
91-57-6	2-Methylnaphthalene	0.88	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.77	11	ND	U
86-73-7	Fluorene	0.58	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.56	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.73	11	ND	U
56-55-3	Benzo(a)anthracene	0.73	11	ND	U
218-01-9	Chrysene	0.81	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.73	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.56	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.47	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.43	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 6/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB33-4-5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Lab Sample ID: 1005134-07
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-07A66
Analyst: 2650

% Moisture: 11 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK1

Date Extracted: 05/25/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.3	ND	U
91-57-6	2-Methylnaphthalene	0.77	9.3	ND	U
208-96-8	Acenaphthylene	0.60	9.3	ND	U
83-32-9	Acenaphthene	0.67	9.3	ND	U
86-73-7	Fluorene	0.51	9.3	ND	U
85-01-8	Phenanthrene	1.5	9.3	ND	U
120-12-7	Anthracene	0.49	9.3	ND	U
206-44-0	Fluoranthene	1.5	9.3	ND	U
129-00-0	Pyrene	0.64	9.3	0.99	J
56-55-3	Benzo(a)anthracene	0.64	9.3	ND	U
218-01-9	Chrysene	0.71	9.3	0.84	J
205-99-2	Benzo(b)fluoranthene	0.64	9.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.49	9.3	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.3	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/10/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB33-4-5RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Lab Sample ID: 1005134-07RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-07RA70
Analyst: MEW

% Moisture: 11 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/30/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.3	2.4	UB
91-57-6	2-Methylnaphthalene	0.77	9.3	ND	U
208-96-8	Acenaphthylene	0.60	9.3	ND	U
83-32-9	Acenaphthene	0.67	9.3	ND	U
86-73-7	Fluorene	0.51	9.3	ND	U
85-01-8	Phenanthrene	1.5	9.3	ND	U
120-12-7	Anthracene	0.49	9.3	ND	U
206-44-0	Fluoranthene	1.5	9.3	ND	U
129-00-0	Pyrene	0.64	9.3	ND	U
56-55-3	Benzo(a)anthracene	0.64	9.3	ND	U
218-01-9	Chrysene	0.71	9.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.64	9.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.49	9.3	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.3	4.3	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.3	ND	U

ND = Not Detected
Q = Qualifier

X RE

FORM I SV-1

SMM 6/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

'lient Project ID:
_lient SDG No: 1005134
Client Sample ID: SB31-5-6

Lab Sample ID: 1005134-08
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Date Received: 05/19/10
Lab File ID: 1005134-08A66
Analyst: 2650

Date Extracted: 05/25/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	ND	U
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

6/1/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB31-5-6RE

Lab Sample ID: 1005134-08RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Date Received: 05/19/10
Lab File ID: 1005134-08RA70
Analyst: MEW

Date Extracted: 06/02/10
Date Analyzed: 06/30/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	1.3	JB
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	4.6	J
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS31-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Lab Sample ID: 1005134-09
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-09A66
Analyst: 2650

% Moisture: 22 decanted: (Y/N) Y
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK1

Date Extracted: 05/25/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.92	11	ND	U
91-57-6	2-Methylnaphthalene	0.88	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.77	11	ND	U
86-73-7	Fluorene	0.58	11	ND	U
85-01-8	Phenanthrene	1.7	11	2.1	J
120-12-7	Anthracene	0.56	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.73	11	1.2	J
56-55-3	Benzo(a)anthracene	0.73	11	ND	U
218-01-9	Chrysene	0.81	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.73	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.56	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	0.51	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.47	11	0.53	J
53-70-3	Dibenzo(a,h)anthracene	0.43	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

'lient Project ID:
.lient SDG No: 1005134
Client Sample ID: SS31-0-1RE

Lab Sample ID: 1005134-09RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 22 decanted: (Y/N) Y
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Date Received: 05/19/10
Lab File ID: 1005134-09RA70
Analyst: MEW

Date Extracted: 06/02/10
Date Analyzed: 06/30/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.92	11	1.4	JB
91-57-6	2-Methylnaphthalene	0.88	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.77	11	ND	U
86-73-7	Fluorene	0.58	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.56	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.73	11	ND	U
56-55-3	Benzo(a)anthracene	0.73	11	ND	U
218-01-9	Chrysene	0.81	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.73	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.56	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.47	11	5.0	J
53-70-3	Dibenzo(a,h)anthracene	0.43	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMA 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS32-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-10
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-10B70
Analyst: TD

% Moisture: 3 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK2

Date Extracted: 05/25/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.74	8.6	ND	U
91-57-6	2-Methylnaphthalene	0.70	8.6	ND	U
208-96-8	Acenaphthylene	0.55	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.46	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	ND	U
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	ND	U
129-00-0	Pyrene	0.58	8.6	ND	U
56-55-3	Benzo(a)anthracene	0.58	8.6	ND	U
218-01-9	Chrysene	0.65	8.6	ND	U
205-99-2	Benzo(b)fluoranthene	0.58	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.34	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

RE

FORM I SV-1

7/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

lient Project ID:
Client SDG No: 1005134
Client Sample ID: SS32-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-10RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-10RA70
Analyst: MEW

% Moisture: 3 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/30/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.74	8.6	8.6 1.8	JB U
91-57-6	2-Methylnaphthalene	0.70	8.6	ND	U
208-96-8	Acenaphthylene	0.55	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.46	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	ND	U
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	ND	U
129-00-0	Pyrene	0.58	8.6	ND	U
56-55-3	Benzo(a)anthracene	0.58	8.6	ND	U
218-01-9	Chrysene	0.65	8.6	ND	U
205-99-2	Benzo(b)fluoranthene	0.58	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	4.0	J
53-70-3	Dibenzo(a,h)anthracene	0.34	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

smt 8/18/201 0

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS32D-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-11
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-11B70
Analyst: TD

% Moisture: 3 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK2

Date Extracted: 05/25/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.74	8.6	ND	U
91-57-6	2-Methylnaphthalene	0.70	8.6	ND	U
208-96-8	Acenaphthylene	0.55	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.46	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	ND	U
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	ND	U
129-00-0	Pyrene	0.58	8.6	ND	U
56-55-3	Benzo(a)anthracene	0.58	8.6	ND	U
218-01-9	Chrysene	0.65	8.6	ND	U
205-99-2	Benzo(b)fluoranthene	0.58	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.34	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

RE

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS32D-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-11RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-11RB70
Analyst: TD

% Moisture: 3 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.74	8.6	8.6 ~~1.3~~	JB
91-57-6	2-Methylnaphthalene	0.70	8.6	ND	U
208-96-8	Acenaphthylene	0.55	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.46	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	ND	U
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	ND	U
129-00-0	Pyrene	0.58	8.6	ND	U
56-55-3	Benzo(a)anthracene	0.58	8.6	ND	U
218-01-9	Chrysene	0.65	8.6	ND	U
205-99-2	Benzo(b)fluoranthene	0.58	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	3.9	J
53-70-3	Dibenzo(a,h)anthracene	0.34	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

'lient Project ID:
Client SDG No: 1005134
Client Sample ID: SB32-2.5-3.5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-12
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-12B70
Analyst: TD

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK2

Date Extracted: 05/25/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	ND	U
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	ND	U
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	ND	U
129-00-0	Pyrene	0.61	8.9	ND	U
56-55-3	Benzo(a)anthracene	0.61	8.9	ND	U
218-01-9	Chrysene	0.68	8.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.61	8.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	8.9	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMK 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB32-2.5-3.5RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-12RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-12RB70
Analyst: TD

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	8.9 ~~0.80~~	~~JB~~
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	ND	U
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	ND	U
129-00-0	Pyrene	0.61	8.9	ND	U
56-55-3	Benzo(a)anthracene	0.61	8.9	ND	U
218-01-9	Chrysene	0.68	8.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.61	8.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	8.9	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	4.2	J
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	ND	U

MBL HT

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB32D-2.5-3.5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-13
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-13B70
Analyst: TD

% Moisture: 9 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK2

Date Extracted: 05/25/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.79	9.1	ND	U
91-57-6	2-Methylnaphthalene	0.75	9.1	ND	U
208-96-8	Acenaphthylene	0.59	9.1	ND	U
83-32-9	Acenaphthene	0.66	9.1	ND	U
86-73-7	Fluorene	0.49	9.1	ND	U
85-01-8	Phenanthrene	1.4	9.1	ND	U
120-12-7	Anthracene	0.48	9.1	ND	U
206-44-0	Fluoranthene	1.5	9.1	ND	U
129-00-0	Pyrene	0.62	9.1	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.1	ND	U
218-01-9	Chrysene	0.70	9.1	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.1	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.1	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.1	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.1	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.1	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.1	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/18/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

lient Project ID:
Client SDG No: 1005134
Client Sample ID: SB32D-2.5-3.5RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-13RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/19/10
Lab File ID: 1005134-13RB70
Analyst: TD

% Moisture: 9 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.79	9.1	1.0	JX
91-57-6	2-Methylnaphthalene	0.75	9.1	ND	U
208-96-8	Acenaphthylene	0.59	9.1	ND	U
83-32-9	Acenaphthene	0.66	9.1	ND	U
86-73-7	Fluorene	0.49	9.1	ND	U
85-01-8	Phenanthrene	1.4	9.1	ND	U
120-12-7	Anthracene	0.48	9.1	ND	U
206-44-0	Fluoranthene	1.5	9.1	ND	U
129-00-0	Pyrene	0.62	9.1	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.1	ND	U
218-01-9	Chrysene	0.70	9.1	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.1	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.1	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.1	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.1	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.1	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.1	ND	U

X RE

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB50-1-2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-14
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-14B70
Analyst: TD

% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK2

Date Extracted: 05/25/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	0.88	JBX RE
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	9.9	ND	U
50-32-8	Benzo(a)pyrene	0.46	9.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB50-1-2RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/18/10

Lab Sample ID: 1005134-14RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-14RB70
Analyst: TD

% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	9.9 1.8	JB U
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U J
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	9.9	ND	U
50-32-8	Benzo(a)pyrene	0.46	9.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	4.6	J
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U J
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U J

MB HT

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/19/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS12-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005134-15
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-15B70
Analyst: TD

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK2

Date Extracted: 05/25/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	0.76	J
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	0.64	J
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/6/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS12-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005134-15RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-15RB70
Analyst: TD

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	0.97	UB X RE
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	4.3	J
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB12-2-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005134-16
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-16B70
Analyst: TD

% Moisture: 11 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK2

Date Extracted: 05/25/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.3	ND	U
91-57-6	2-Methylnaphthalene	0.77	9.3	ND	U
208-96-8	Acenaphthylene	0.60	9.3	ND	U
83-32-9	Acenaphthene	0.67	9.3	ND	U
86-73-7	Fluorene	0.51	9.3	ND	U
85-01-8	Phenanthrene	1.5	9.3	ND	U
120-12-7	Anthracene	0.49	9.3	ND	U
206-44-0	Fluoranthene	1.5	9.3	ND	U
129-00-0	Pyrene	0.64	9.3	ND	U
56-55-3	Benzo(a)anthracene	0.64	9.3	ND	U
218-01-9	Chrysene	0.71	9.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.64	9.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.49	9.3	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.3	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMK 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB12-2-3RE

Lab Sample ID: 1005134-16RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 11 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Date Received: 05/21/10
Lab File ID: 1005134-16RB70
Analyst: TD

Date Extracted: 06/02/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.3	ND	U
91-57-6	2-Methylnaphthalene	0.77	9.3	ND	U
208-96-8	Acenaphthylene	0.60	9.3	ND	U
83-32-9	Acenaphthene	0.67	9.3	ND	U
86-73-7	Fluorene	0.51	9.3	ND	U
85-01-8	Phenanthrene	1.5	9.3	ND	U
120-12-7	Anthracene	0.49	9.3	ND	U
206-44-0	Fluoranthene	1.5	9.3	ND	U
129-00-0	Pyrene	0.64	9.3	ND	U
56-55-3	Benzo(a)anthracene	0.64	9.3	ND	U
218-01-9	Chrysene	0.71	9.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.64	9.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.49	9.3	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.3	ND	U

X RE J

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/18/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

`lient Project ID:
lient SDG No: 1005134
Client Sample ID: SS44-0-1

Lab Sample ID: 1005134-17
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Date Received: 05/21/10
Lab File ID: 1005134-17B70
Analyst: TD

Date Extracted: 05/25/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	1.7	J X RE
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	ND	U
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	ND	U
129-00-0	Pyrene	0.61	8.9	ND	U
56-55-3	Benzo(a)anthracene	0.61	8.9	ND	U
218-01-9	Chrysene	0.68	8.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.61	8.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	8.9	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS44-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005134-17RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-17RB70
Analyst: TD

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	8.9 1.4	UB J
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	1.4	J
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	ND	U
129-00-0	Pyrene	0.61	8.9	0.94	J
56-55-3	Benzo(a)anthracene	0.61	8.9	ND	U
218-01-9	Chrysene	0.68	8.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.61	8.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	8.9	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMT 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB44-5-6

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005134-18
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-18A66
Analyst: 2650

% Moisture: 15 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK1

Date Extracted: 05/25/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.84	9.8	ND	U
91-57-6	2-Methylnaphthalene	0.80	9.8	ND	U
208-96-8	Acenaphthylene	0.63	9.8	ND	U
83-32-9	Acenaphthene	0.71	9.8	ND	U
86-73-7	Fluorene	0.53	9.8	ND	U
85-01-8	Phenanthrene	1.5	9.8	ND	U
120-12-7	Anthracene	0.51	9.8	ND	U
206-44-0	Fluoranthene	1.6	9.8	ND	U
129-00-0	Pyrene	0.67	9.8	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.8	ND	U
218-01-9	Chrysene	0.75	9.8	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.8	ND	U
207-08-9	Benzo(k)fluoranthene	0.51	9.8	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.8	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.8	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.8	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.8	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB44-5-6RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005134-18RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-18RA70
Analyst: MEW

% Moisture: 15 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/30/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.84	9.8	ND	U
91-57-6	2-Methylnaphthalene	0.80	9.8	ND	U
208-96-8	Acenaphthylene	0.63	9.8	ND	U
83-32-9	Acenaphthene	0.71	9.8	ND	U
86-73-7	Fluorene	0.53	9.8	ND	U
85-01-8	Phenanthrene	1.5	9.8	ND	U
120-12-7	Anthracene	0.51	9.8	ND	U
206-44-0	Fluoranthene	1.6	9.8	ND	U
129-00-0	Pyrene	0.67	9.8	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.8	ND	U
218-01-9	Chrysene	0.75	9.8	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.8	ND	U
207-08-9	Benzo(k)fluoranthene	0.51	9.8	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.8	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.8	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.8	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.8	ND	U

ND = Not Detected
Q = Qualifier

RE

FORM I SV-1

smh 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SS43-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005134-19
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-19RB70
Analyst: TD

% Moisture: 3 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.74	8.6	8.6 1.4	~~JBU~~ MK
91-57-6	2-Methylnaphthalene	0.70	8.6	ND	U
208-96-8	Acenaphthylene	0.55	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.46	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	ND	U
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	ND	U
129-00-0	Pyrene	0.58	8.6	ND	U
56-55-3	Benzo(a)anthracene	0.58	8.6	ND	U
218-01-9	Chrysene	0.65	8.6	ND	U
205-99-2	Benzo(b)fluoranthene	0.58	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	4.0	J
53-70-3	Dibenzo(a,h)anthracene	0.34	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMK 6/8/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB43-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005134-20
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-20JA70
Analyst: OWS

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052518-BLK2

Date Extracted: 05/25/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	ND	U
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	ND	U
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	ND	U
129-00-0	Pyrene	0.61	8.9	ND	U
56-55-3	Benzo(a)anthracene	0.61	8.9	ND	U
218-01-9	Chrysene	0.68	8.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.61	8.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	8.9	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/18/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005134
Client Sample ID: SB43-3-4RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005134-20
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005134-20RB70
Analyst: TD

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060203-BLK1

Date Extracted: 06/02/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	1.3	JB
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	ND	U
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	ND	U
129-00-0	Pyrene	0.61	8.9	ND	U
56-55-3	Benzo(a)anthracene	0.61	8.9	ND	U
218-01-9	Chrysene	0.68	8.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.61	8.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	8.9	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS02-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U J
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	3.9	U
60-57-1	Dieldrin	3.9	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	0.29	JP ~~U~~ J
1024-57-3	Heptachlor Epoxide	2.0	U J
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	99	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

SSL

2C SSL

FORM I PEST

SMT 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS02D-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 12 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.9	U	
319-85-7	beta-BHC		1.9	U	
319-84-6	alpha-BHC		1.9	U	
319-86-8	delta-BHC		0.47	J	
58-89-9	gamma-BHC (Lindane)		1.9	U	
72-54-8	4,4'-DDD		3.8	U	
72-55-9	4,4'-DDE		3.8	U	
50-29-3	4,4'-DDT		3.8	U	
60-57-1	Dieldrin		3.8	U	
959-98-8	Endosulfan I		3.8	U	
33213-65-9	Endosulfan II		1.9	U	
1031-07-8	Endosulfan sulfate		3.8	U	
72-20-8	Endrin		3.8	U	
7421-93-4	Endrin Aldehyde		3.8	U	
76-44-8	Heptachlor		3.8	U	
1024-57-3	Heptachlor Epoxide	1.9	~~0.34~~ ~~JP~~	U	2C
72-43-5	Methoxychlor		1.9	U	
8001-35-2	Toxaphene		19	U	
53494-70-5	Endrin Ketone		94	U	
5103-74-2	gamma-Chlordane		3.8	U	
5103-71-9	alpha-Chlordane	1.9	~~0.22~~ ~~JP~~	U	2C
		1.9	~~0.21~~ JP	U	2C

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB02-5-6

ab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	4.1	U
33213-65-9	Endosulfan II	2.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	4.1	U
1024-57-3	Heptachlor Epoxide	0.30	~~JP~~ NJ 2C
72-43-5	Methoxychlor	2.1	U
8001-35-2	Toxaphene	21	U
53494-70-5	Endrin Ketone	100	U
5103-74-2	gamma-Chlordane	4.1	U
5103-71-9	alpha-Chlordane	2.1	U
		2.1	U

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB02D-5-6

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	2.2	U
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	0.35	J
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	2.2 ~~0.24~~	~~JF~~ U
5103-71-9	alpha-Chlordane	2.2	U

2C

FORM I PEST

SMM 8/19/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB05-7-8

ab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 28 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.4	UJ
319-85-7	beta-BHC	2.4	U
319-84-6	alpha-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
72-54-8	4,4'-DDD	4.6	U
72-55-9	4,4'-DDE	4.6	U
50-29-3	4,4'-DDT	4.6	U
60-57-1	Dieldrin	4.6	U
959-98-8	Endosulfan I	2.4	U
33213-65-9	Endosulfan II	4.6	U
1031-07-8	Endosulfan sulfate	4.6	U
72-20-8	Endrin	4.6	U
7421-93-4	Endrin Aldehyde	4.6	U
76-44-8	Heptachlor	2.4	U
1024-57-3	Heptachlor Epoxide	2.4	U
72-43-5	Methoxychlor	24	U
8001-35-2	Toxaphene	120	U
53494-70-5	Endrin Ketone	4.6	U
5103-74-2	gamma-Chlordane	2.4	U
5103-71-9	alpha-Chlordane	2.4	U

SSL

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS33-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) Y Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	0.87	J
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	0.52	J
50-29-3	4,4'-DDT	0.64	J
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	0.63	J
33213-65-9	Endosulfan II	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	2.2	U
5103-71-9	alpha-Chlordane	2.2	U

SSL

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB33-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	0.56	J
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	93	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB31-5-6

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

SMK 8/18/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS31-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) Y Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		2.2	U	
319-85-7	beta-BHC		2.2	U	
319-84-6	alpha-BHC		2.2	U	
319-86-8	delta-BHC		2.2	U	
58-89-9	gamma-BHC (Lindane)		0.62	~~JP~~ U	2C
72-54-8	4,4'-DDD		0.59	~~JP~~ U	2C
72-55-9	4,4'-DDE		4.2	U	
50-29-3	4,4'-DDT		4.2	U	
60-57-1	Dieldrin		4.2	U	
959-98-8	Endosulfan I		2.2	U	
33213-65-9	Endosulfan II		4.2	U	
1031-07-8	Endosulfan sulfate	4.2	~~0.55~~	~~JP~~ U	2C
72-20-8	Endrin		4.2	U	
7421-93-4	Endrin Aldehyde		4.2	U	
76-44-8	Heptachlor		2.2	U	
1024-57-3	Heptachlor Epoxide		0.34	J	
72-43-5	Methoxychlor		22	U	
8001-35-2	Toxaphene		110	U	
53494-70-5	Endrin Ketone		1.5	~~JP~~ J	2C
5103-74-2	gamma-Chlordane		0.22	J	
5103-71-9	alpha-Chlordane		0.24	J	

FORM I PEST

SMK 8/10/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS32-0-1

ab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	0.39	J
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4 ~~0.60~~	U ~~JP~~ U SC
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	0.91	J
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	0.34	J

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS32D-0-1

ab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin		1.8	U
319-85-7	beta-BHC		1.8	U
319-84-6	alpha-BHC		1.8	U
319-86-8	delta-BHC		1.8	U
58-89-9	gamma-BHC (Lindane)		1.8	U
72-54-8	4,4'-DDD		3.4	U
72-55-9	4,4'-DDE		3.4	U
50-29-3	4,4'-DDT		3.4	U
60-57-1	Dieldrin		3.4	U
959-98-8	Endosulfan I		1.8	U
33213-65-9	Endosulfan II		3.4	U
1031-07-8	Endosulfan sulfate		3.4	U
72-20-8	Endrin		1.4	~~JP~~ NJ 2C
7421-93-4	Endrin Aldehyde		3.4	U
76-44-8	Heptachlor		1.8	U
1024-57-3	Heptachlor Epoxide		1.8	U
72-43-5	Methoxychlor	18	~~2.8~~ JP U	2C
8001-35-2	Toxaphene		86	U
53494-70-5	Endrin Ketone		2.8	J
5103-74-2	gamma-Chlordane		1.8	U
5103-71-9	alpha-Chlordane		1.8	U

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB32-2.5-3.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	1.8	U J	SSL
319-85-7	beta-BHC	1.8	U	
319-84-6	alpha-BHC	1.8	U	
319-86-8	delta-BHC	1.8	U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
72-54-8	4,4'-DDD	3.5	U	
72-55-9	4,4'-DDE	3.5	U	
50-29-3	4,4'-DDT	0.67	J	
60-57-1	Dieldrin	3.5	U J	
959-98-8	Endosulfan I	1.8	U	
33213-65-9	Endosulfan II	3.5	U	
1031-07-8	Endosulfan sulfate	3.5	U	
72-20-8	Endrin	3.5	U	
7421-93-4	Endrin Aldehyde	3.5	U	
76-44-8	Heptachlor	1.8	U	
1024-57-3	Heptachlor Epoxide	1.8	U	
72-43-5	Methoxychlor	18	U	
8001-35-2	Toxaphene	89	U	
53494-70-5	Endrin Ketone	3.5	U	
5103-74-2	gamma-Chlordane	1.8	U	
5103-71-9	alpha-Chlordane	1.8	U	

FORM I PEST

SM 6/16/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB32D-2.5-3.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U J
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

SSL

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB50-1-2

ab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	UJ
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	1.1	J
60-57-1	Dieldrin	3.9	UJ
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	99	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

SSL

FORM I PEST

SMT 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS12-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.53	J
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	5.9	
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	0.81	J
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB12-2-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7 ~~0.90~~	~~JP~~ U 2C
959-98-8	Endosulfan I	3.7	U
33213-65-9	Endosulfan II	1.9	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	3.7	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	1.9	U
8001-35-2	Toxaphene	19	U
53494-70-5	Endrin Ketone	93	U
5103-74-2	gamma-Chlordane	3.7	U
5103-71-9	alpha-Chlordane	1.9	U
		1.9	U

FORM I PEST

SM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS44-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
309-00-2	Aldrin		1.8	U
319-85-7	beta-BHC		2.3	P
319-84-6	alpha-BHC		1.8	U
319-86-8	delta-BHC		1.8	U
58-89-9	gamma-BHC (Lindane)		1.8	U
72-54-8	4,4'-DDD		3.5	U
72-55-9	4,4'-DDE		3.5	U
50-29-3	4,4'-DDT		6.2	
60-57-1	Dieldrin		3.5	U
959-98-8	Endosulfan I	1.8	0.59	JP U
33213-65-9	Endosulfan II		3.5	U
1031-07-8	Endosulfan sulfate		3.5	U
72-20-8	Endrin		3.5	U
7421-93-4	Endrin Aldehyde		0.58	J
76-44-8	Heptachlor		1.8	U
1024-57-3	Heptachlor Epoxide		1.8	U
72-43-5	Methoxychlor		18	U
8001-35-2	Toxaphene		89	U
53494-70-5	Endrin Ketone	3.5	0.50	JP U
5103-74-2	gamma-Chlordane		1.8	U
5103-71-9	alpha-Chlordane		0.86	JP

FORM I PEST

8/18/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB44-5-6

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U J
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	0.99	J
60-57-1	Dieldrin	3.9	U J
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	98	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

SSL

FORM I PEST

SMK 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS43-0-1

ab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	UJ
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

SSL

FORM I PEST

SMM 6/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB43-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005134

Matrix: (soil/water) SOIL Lab Sample ID: 1005134-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/25/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	UJ
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	0.58	J
60-57-1	Dieldrin	3.5	UJ
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	89	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

SSL

FORM I PEST

SMM 8/18/2010

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005157
Fraction: Organic
Matrix: Solid
Report Date: 8/30/2010 (Revised 9/14/2010)

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. Three field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

Revised 9/14/2010
Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following compounds were detected in associated laboratory method and/or field blanks.

Blank	Compound	Concentration (µg/Kg)	Associated Samples
PBLKCT	alpha-BHC	0.22	All Samples

The alpha-BHC result for sample BBG-SS69-0-1-10B is qualitatively invalid due to the presence of this compound in the associated laboratory method blank. USEPA protocol requires positive results for uncommon contaminants, such as alpha-BHC, that are less than or equal to five times

the associated blank contamination level, to be considered qualitatively invalid. The result for the sample is less than the reporting limit (RL). It has been replaced with the RL and marked "U".

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 FIELD DUPLICATE RESULTS

Duplicate samples BBG-SS51-0-1-10B and BBG-SS51D-0-1-10B, BBG-SS82-0-1-10B and BBG-SS82D-0-1-10B, and BBG-SB82-2-3-10B and BBG-SB82D-2-3-10B were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for the duplicate samples are presented in Tables 2 through 4. No USEPA-established acceptance criteria exist for field duplicate samples. EDQ uses internal acceptance criteria of forty percent for detected extractable compounds to evaluate solid field duplicate samples.

10.0 LABORATORY CONTROL SAMPLE RESULTS

The results for polynuclear aromatic hydrocarbon compounds naphthalene, 2-methylnaphthalene, acenaphthylene, acenaphthene, and fluorene for all samples are biased low quantitative estimates, and may be higher than reported. Low recoveries for these compounds were obtained for the associated laboratory control sample analysis. The low recovery indicates inefficiencies with the sample extraction/analytical processes. The naphthalene, 2-methylnaphthalene, acenaphthylene, acenaphthene, and fluorene positive results have been marked with "J" qualifiers to indicate that they are biased low quantitative estimates. RLs are marked "UJ".

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

Positive results were reported for benzo (b) fluoranthene and benzo (k) fluoranthene for sample BBG-SS64-0-1-10B. These compounds are isomers with nearly identical mass spectra. Because the isomers cannot be resolved on the chromatographic columns used for analysis, the concentrations reported actually represent total concentrations of benzo (b) fluoranthene and/or benzo (k) fluoranthene. This should be noted when assessing the data.

13.0 *QUANTITATION/REPORTING LIMITS*

The following samples were re-analyzed at dilutions for pesticide compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
BBG-SS51D-0-1-10B	5.0	4'-DDE

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-SB73-9-10-10B	Heptachlor

BBG-SS51-0-1-10B	Heptachlor Epoxide
BBG-SS51D-0-1-10B	Endrin Aldehyde
BBG-SB90-2-3-10B	Heptachlor
BBG-SS69-0-1-10B	Endrin Aldehyde
BBG-SS64-0-1-10B	Endrin
BBG-SS82-0-1-10B	4,4'_DDT

Poor precision (greater than 70 % difference between results) was observed for the pesticide compounds presented in Table 5 on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Polynuclear Aromatic Hydrocarbons	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Pesticide Compounds	Method 8081A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 5 Pesticide Results Qualified Due to Dual Column Imprecision

Sample	Affected Compounds
BBG-SS51-0-1-10B	Aldrin, beta-BHC, Endosulfan Sulfate, Endrin
BBG-SS51D-0-1-10B	Aldrin, Heptachlor, Heptachlor Epoxide, gamma-Chlordane, alpha-Chlordane
BBG-SS90-0-1-10B	Dieldrin, Endosulfan Sulfate, Endrin, gamma-Chlordane
BBG-SS69-0-1-10B	Aldrin, delta-BHC, Endosulfan sulfate, Heptachlor Epoxide, gamma-Chlordane
BBG-SB69-2-3-10B	gamma-BHC, Heptachlor, Endrin Ketone
BBG-SB65-1-2-10B	beta-BHC, Endrin Aldehyde
BBG-SS64-0-1-10B	Endrin Ketone
BBG-SS66-0-1-10B	beta-BHC, delta-BHC, Heptachlor
BBG-SS65-0-1-10B	beta-BHC, Endrin Aldehyde, alpha-Chlordane
BBG-SS82-0-1-10B	beta-BHC
BBG-SS82D-0-1-10B	beta-BHC, Endrin Aldehyde, gamma-Chlordane
BBG-SB82-2-3-10B	Heptachlor
BBG-SB82D-2-3-10B	beta-BHC, 4,4'-DDT

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005157
Fraction: Organic
Matrix: Solid
Report Date: 8/30/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. Three field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

All criteria were met. No qualifiers were applied.

7.0 *SURROGATE COMPOUNDS*

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples BBG-SS51-0-1-10B and BBG-SS51D-0-1-10B, BBG-SS82-0-1-10B and BBG-SS82D-0-1-10B, and BBG-SB82-2-3-10B and BBG-SB82D-2-3-10B were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for the duplicate samples are presented in Tables 2 through 4. No USEPA-established acceptance criteria exist for field duplicate samples. EDQ uses internal acceptance criteria of forty percent for detected extractable compounds to evaluate solid field duplicate samples.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

The results for polynuclear aromatic hydrocarbon compounds naphthalene, 2-methylnaphthalene, acenaphthylene, acenaphthene, and fluorene for all samples are biased low quantitative estimates, and may be higher than reported. Low recoveries for these compounds were obtained for the associated laboratory control sample analysis. The low recovery indicates inefficiencies with the sample extraction/analytical processes. The naphthalene, 2-methylnaphthalene, acenaphthylene, acenaphthene, and fluorene positive results have been marked with "J" qualifiers to indicate that they are biased low quantitative estimates. RLs are marked "UJ".

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

Positive results were reported for benzo (b) fluoranthene and benzo (k) fluoranthene for sample BBG-SS64-0-1-10B. These compounds are isomers with nearly identical mass spectra. Because the isomers cannot be resolved on the chromatographic columns used for analysis, the concentrations reported actually represent total concentrations of benzo (b) fluoranthene and/or benzo (k) fluoranthene. This should be noted when assessing the data.

13.0 *QUANTITATION/REPORTING LIMITS*

The following samples were re-analyzed at dilutions for pesticide compounds. The samples were re-analyzed because the responses for compounds exceeded the linear range of the GC instrument. The results for these compounds have been reported from the dilution analyses. All other results are reported from the initial analyses.

Sample	Dilution Factor	Results Exceeding the Linear Range
Endrin Aldehyde	5.0	4'-DDE

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-SB73-9-10-10B	Heptachlor
BBG-SS51-0-1-10B	Heptachlor Epoxide
BBG-SS51D-0-1-10B	Endrin Aldehyde
BBG-SB90-2-3-10B	Heptachlor
BBG-SS69-0-1-10B	Endrin Aldehyde
BBG-SS64-0-1-10B	Endrin
BBG-SS82-0-1-10B	4,4'_DDT

Poor precision (greater than 70 % difference between results) was observed for the pesticide compounds presented in Table 5 on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Polynuclear Aromatic Hydrocarbons	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Pesticide Compounds	Method 8081A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SB73-9-10-10B	1005157	1005157-01	5/17/2010	Soil	X	X	X		X	X
BBG-SS51-0-1-10B	1005157	1005157-02	5/19/2010	Soil	X	X	X		X	X
BBG-SS51D-0-1-10B	1005157	1005157-03	5/19/2010	Soil	X	X	X		X	X
BBG-SS51D-0-1-10B	1005157	1005157-03RE1	5/19/2010	Soil		X				
BBG-SS90-0-1-10B	1005157	1005157-04	5/19/2010	Soil	X	X	X		X	X
BBG-SS90-0-1-10B	1005157	1005157-04RE1	5/19/2010	Soil		X				
BBG-SB90-2-3-10B	1005157	1005157-05	5/19/2010	Soil	X	X	X		X	X
BBG-SS70-0-1-10B	1005157	1005157-06	5/20/2010	Soil	X	X	X		X	X
BBG-SB70-1-2-10B	1005157	1005157-07	5/20/2010	Soil	X	X	X		X	X
BBG-SS69-0-1-10B	1005157	1005157-08	5/20/2010	Soil	X	X	X		X	X
BBG-SB69-2-3-10B	1005157	1005157-09	5/20/2010	Soil	X	X	X		X	X
BBG-SB64-1-2-10B	1005157	1005157-10	5/20/2010	Soil	X	X	X		X	X
BBG-SB65-1-2-10B	1005157	1005157-11	5/20/2010	Soil	X	X	X		X	X
BBG-SS64-0-1-10B	1005157	1005157-12	5/20/2010	Soil	X	X	X		X	X
BBG-SS66-0-1-10B	1005157	1005157-13	5/20/2010	Soil	X	X	X		X	X
BBG-SS66-0-1-10B	1005157	1005157-13RE1	5/20/2010	Soil		X				
BBG-SS65-0-1-10B	1005157	1005157-14	5/20/2010	Soil	X	X	X		X	X
BBG-SS82-0-1-10B	1005157	1005157-15	5/21/2010	Soil	X	X	X		X	X
BBG-SS82D-0-1-10B	1005157	1005157-16	5/21/2010	Soil	X	X	X		X	X
BBG-SB82-2-3-10B	1005157	1005157-17	5/21/2010	Soil	X	X	X		X	X
BBG-SB82D-2-3-10B	1005157	1005157-18	5/21/2010	Soil	X	X	X		X	X
BBG-SB82D-2-3-10B	1005157	1005157-18RE1	5/21/2010	Soil		X				

Table 2 Field Duplicate Sample Results for Organic Analyses
Soil Duplicate Samples BBG-SS51-0-1-10B and BBG-SS51D-0-1-10B

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)		RPD	ACTION
	BBG-SS51-0-1-10B		BBG-SS51D-0-1-10B			
Naphthalene	1.4	J	1.3	J	7	
2-Methylnaphthalene	1.1	J	1.6	J	37	
Acenaphthylene	0.83	J	ND		NC	
Acenaphthene	ND		0.92	J	NC	
Fluorene	ND		0.77	J	NC	
Phenanthrene	4	J	7.8	J	64	
Anthracene	1.6	J	2.5	J	44	
Fluoranthene	14		13		7	
Pyrene	15		11		31	
Benzo (a) anthracene	6.6	J	7.4	J	11	
Chrysene	9.3	J	8.2	J	13	
Benzo (b) fluoranthene	11	J	ND		NC	
Benzo (k) fluoranthene	6.6	J	ND		NC	
Benzo (a) pyrene	5.8	J	ND		NC	
Indeno (1,2,3-cd) pyrene	10	J	8.5	J	16	
Dibenzo (a,h) anthracene	2	J	1.9	J	5	
Benzo (g,h,i) perylene	5.2	J	3.8	J	31	
4,4'-DDD	8.7		34		119	
4,4'-DDE	28		58		70	
4,4'-DDT	7.8		7.5		4	

Table 2 Field Duplicate Sample Results for Organic Analyses
Soil Duplicate Samples BBG-SS51-0-1-10B and BBG-SS51D-0-1-10B

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)		RPD	ACTION
	BBG-SS51-0-1-10B		BBG-SS51D-0-1-10B			
Dieldrin	ND		3.1	J	NC	
Endosulfan I	1.3	J	ND		NC	
Endosulfan II	0.93	J	ND		NC	
Endosulfan sulfate	ND	JP	ND		NC	
Endrin	ND	JP	ND		NC	
Endrin Aldehyde	1.0	J	0.79	J	23	
Heptachlor Epoxide	1.6	J	ND		NC	
Endrin Ketone	2.2	J	ND		NC	
gamma-Chlordane	ND		ND		NC	
alpha-Chlordane	ND		ND		NC	

Table 3 **Field Duplicate Sample Results for Organic Analyses**
Soil Duplicate Samples BBG-SS82-0-1-10B and BBG-SS82D-0-1-10B

Analyte	Sample Result (µg/Kg)		Field Duplicate Result (µg/Kg)		RPD	ACTION
	BBG-SS82-0-1-10B		BBG-SS82D-0-1-10B			
Phenanthrene	ND		1.8	J	NC	
Fluoranthene	4.4	J	4	J	10	
Pyrene	4.2	J	3.4	J	21	
Benzo (a) anthracene	2.6	J	2.1	J	21	
Chrysene	2.4	J	2.3	J	4	
Benzo (b) fluoranthene	2.5	J	ND		NC	
Benzo (k) fluoranthene	2	J	ND		NC	
Benzo (a) pyrene	2.3	J	ND		NC	
gamma-BHC (Lindane)	0.32	J	ND		NC	
4,4'-DDE	0.76	J	0.74	J	3	
4,4'-DDT	0.67	J	0.89	J	28	

Table 4 **Field Duplicate Sample Results for Organic Analyses**
Soil Duplicate Samples BBG-SB82-2-3-10B and BBG-SB82D-2-3-10B

Analyte	Sample Result (µg/Kg)	Field Duplicate Result (µg/Kg)		RPD	ACTION
	BBG-SB82-2-3-10B	BBG-SB82D-2-3-10B			
beta-BHC	ND	ND		NC	
4,4'-DDT	ND	ND		NC	
Heptachlor	ND	0.36	J	NC	

Table 5 Pesticide Results Qualified Due to Dual Column Imprecision

Sample	Affected Compounds
BBG-SB73-9-10-10B	Aldrin, beta-BHC, Endosulfan sulfate, Endrin
BBG-SS51-0-1-10B	delta-BHC, 4,4'-DDT, Endosulfan Sulfate, Heptachlor Epoxide
BBG-SS51D-0-1-10B	beta-BHC, alpha-BHC, Heptachlor, Heptachlor Epoxide, gamma-Chlordane, alpha-Chlordane
BBG-SS90-0-1-10B	Dieldrin, Endosulfan Sulfate, Endrin, gamma-Chlordane
BBG-SB90-2-3-10B	beta-BHC, alpha-BHC, delta-BHC, Endosulfan I, Endosulfan II, Endosulfan suldate, Heptachlor, Heptachlor Epoxide, Endrin ketone, gamma-Chlordane
BBG-SS70-0-1-10B	alpha-BHC
BBG-SB70-1-2-10B	Aldrin, 4,4'-DDT, Dieldrin, Endrin, Heptachlor Epoxide,
BBG-SS69-0-1-10B	Aldrin, alpha-BHC, delta-BHC, Endosulfan sulfate, Heptachlor Epoxide, gamma-Chlordane
BBG-SB69-2-3-10B	gamma-BHC, Heptachlor, Endrin Ketone
BBG-SB65-1-2-10B	beta-BHC, Endrin ldehyde
BBG-SS64-0-1-10B	Endrin Ketone
BBG-SS66-0-1-10B	beta-BHC, delta-BHC, Heptachlor
BBG-SS65-0-1-10B	beta-BHC, Heptachlor, alpha-Chlordane
BBG-SS82-0-1-10B	beta-BHC
BBG-SS82D-0-1-10B	beta-BHC, Endrin Aldehyde, gamma-Chlordane
BBG-SB82-2-3-10B	Heptachlor
BBG-SB82D-2-3-10B	beta-BHC, 4,4'-DDT

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SB73-9-10

Lab Sample ID: 1005157-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/17/10

Date Received: 05/19/10
Lab File ID: 1005157-01B70
Analyst: TD

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS51-0-1

Lab Sample ID: 1005157-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 28 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Date Received: 05/21/10
Lab File ID: 1005157-02B70
Analyst: TD

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.00	12	1.4	J
91-57-6	2-Methylnaphthalene	0.95	12	1.1	J
208-96-8	Acenaphthylene	0.74	12	0.83	J
83-32-9	Acenaphthene	0.83	12	ND	U
86-73-7	Fluorene	0.63	12	ND	U
85-01-8	Phenanthrene	1.8	12	4.0	J
120-12-7	Anthracene	0.60	12	1.6	J
206-44-0	Fluoranthene	1.9	12	14	
129-00-0	Pyrene	0.79	12	15	
56-55-3	Benzo(a)anthracene	0.79	12	6.6	J
218-01-9	Chrysene	0.88	12	9.3	J
205-99-2	Benzo(b)fluoranthene	0.79	12	11	J
207-08-9	Benzo(k)fluoranthene	0.60	12	6.6	J
50-32-8	Benzo(a)pyrene	0.53	12	5.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.51	12	10	J
53-70-3	Dibenzo(a,h)anthracene	0.46	12	2.0	J
191-24-2	Benzo(g,h,i)perylene	0.53	12	5.2	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS51D-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005157-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-03B70
Analyst: TD

% Moisture: 23 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.93	11	1.3	J
91-57-6	2-Methylnaphthalene	0.89	11	1.6	J
208-96-8	Acenaphthylene	0.69	11	ND	U J
83-32-9	Acenaphthene	0.78	11	0.92	J
86-73-7	Fluorene	0.58	11	0.77	J
85-01-8	Phenanthrene	1.7	11	7.8	J
120-12-7	Anthracene	0.56	11	2.5	J
206-44-0	Fluoranthene	1.7	11	13	
129-00-0	Pyrene	0.74	11	11	
56-55-3	Benzo(a)anthracene	0.74	11	7.4	J
218-01-9	Chrysene	0.82	11	8.2	J
205-99-2	Benzo(b)fluoranthene	0.74	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.56	11	ND	U
50-32-8	Benzo(a)pyrene	0.50	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.48	11	8.5	J
53-70-3	Dibenzo(a,h)anthracene	0.43	11	1.9	J
191-24-2	Benzo(g,h,i)perylene	0.50	11	3.8	J

ND = Not Detected
Q = Qualifier

BSK

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS90-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005157-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-04B70
Analyst: TD

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	ND	U
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SB90-2-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/19/10

Lab Sample ID: 1005157-05
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-05B70
Analyst: TD

% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	0.89	J
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	9.9	ND	U
50-32-8	Benzo(a)pyrene	0.46	9.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS70-0-1

Lab Sample ID: 1005157-06
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 2 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Date Received: 05/21/10
Lab File ID: 1005157-06B70
Analyst: TD

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.73	8.5	ND	UJ
91-57-6	2-Methylnaphthalene	0.70	8.5	ND	U
208-96-8	Acenaphthylene	0.54	8.5	ND	U
83-32-9	Acenaphthene	0.61	8.5	ND	U
86-73-7	Fluorene	0.46	8.5	ND	U
85-01-8	Phenanthrene	1.3	8.5	ND	U
120-12-7	Anthracene	0.44	8.5	ND	U
206-44-0	Fluoranthene	1.4	8.5	ND	U
129-00-0	Pyrene	0.58	8.5	ND	U
56-55-3	Benzo(a)anthracene	0.58	8.5	ND	U
218-01-9	Chrysene	0.65	8.5	ND	U
205-99-2	Benzo(b)fluoranthene	0.58	8.5	ND	U
207-08-9	Benzo(k)fluoranthene	0.44	8.5	ND	U
50-32-8	Benzo(a)pyrene	0.39	8.5	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.5	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.34	8.5	ND	U
191-24-2	Benzo(g,h,i)perylene	0.39	8.5	ND	U

ND = Not Detected
Q = Qualifier

BSL

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SB70-1-2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005157-07
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-07A70
Analyst: OWS

% Moisture: 11 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.3	ND	U J
91-57-6	2-Methylnaphthalene	0.77	9.3	ND	U
208-96-8	Acenaphthylene	0.60	9.3	ND	U
83-32-9	Acenaphthene	0.67	9.3	ND	U
86-73-7	Fluorene	0.51	9.3	ND	U
85-01-8	Phenanthrene	1.5	9.3	ND	U
120-12-7	Anthracene	0.49	9.3	ND	U
206-44-0	Fluoranthene	1.5	9.3	ND	U
129-00-0	Pyrene	0.64	9.3	ND	U
56-55-3	Benzo(a)anthracene	0.64	9.3	ND	U
218-01-9	Chrysene	0.71	9.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.64	9.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.49	9.3	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.3	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS69-0-1

Lab Sample ID: 1005157-08
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Date Received: 05/21/10
Lab File ID: 1005157-08A70
Analyst: OWS

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	1.1	J
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

BSL

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SB69-2-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005157-09
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-09A70
Analyst: OWS

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	ND	U
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.69	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SB64-1-2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005157-10
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-10A70
Analyst: OWS

% Moisture: 13 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.82	9.5	ND	UJ
91-57-6	2-Methylnaphthalene	0.79	9.5	ND	U
208-96-8	Acenaphthylene	0.61	9.5	ND	U
83-32-9	Acenaphthene	0.69	9.5	ND	U
86-73-7	Fluorene	0.52	9.5	ND	U
85-01-8	Phenanthrene	1.5	9.5	ND	U
120-12-7	Anthracene	0.50	9.5	ND	U
206-44-0	Fluoranthene	1.5	9.5	ND	U
129-00-0	Pyrene	0.65	9.5	ND	U
56-55-3	Benzo(a)anthracene	0.65	9.5	ND	U
218-01-9	Chrysene	0.73	9.5	ND	U
205-99-2	Benzo(b)fluoranthene	0.65	9.5	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.5	ND	U
50-32-8	Benzo(a)pyrene	0.44	9.5	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.42	9.5	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.38	9.5	ND	U
191-24-2	Benzo(g,h,i)perylene	0.44	9.5	ND	U

ND = Not Detected
Q = Qualifier

BSL

FORM I SV-1

SMT 8/20/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SB65-1-2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005157-11
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-11A70
Analyst: OWS

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	UJ
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	1.9	J
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	2.1	J
129-00-0	Pyrene	0.71	10	2.1	J
56-55-3	Benzo(a)anthracene	0.71	10	1.1	J
218-01-9	Chrysene	0.79	10	1.5	J
205-99-2	Benzo(b)fluoranthene	0.71	10	0.99	J
207-08-9	Benzo(k)fluoranthene	0.54	10	0.76	J
50-32-8	Benzo(a)pyrene	0.48	10	0.60	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	5.6	J
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

BSL

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS64-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005157-12
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-12A70
Analyst: OWS

% Moisture: 9 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.79	9.1	ND	U
91-57-6	2-Methylnaphthalene	0.75	9.1	ND	U
208-96-8	Acenaphthylene	0.59	9.1	ND	U
83-32-9	Acenaphthene	0.66	9.1	ND	U
86-73-7	Fluorene	0.49	9.1	ND	U
85-01-8	Phenanthrene	1.4	9.1	2.0	J
120-12-7	Anthracene	0.48	9.1	ND	U
206-44-0	Fluoranthene	1.5	9.1	ND	U
129-00-0	Pyrene	0.62	9.1	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.1	ND	U
218-01-9	Chrysene	0.70	9.1	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.1	0.81	J
207-08-9	Benzo(k)fluoranthene	0.48	9.1	0.66	J
50-32-8	Benzo(a)pyrene	0.42	9.1	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.1	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.1	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.1	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS66-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005157-13
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-13A70
Analyst: OWS

% Moisture: 50 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.4	17	ND	UJ
91-57-6	2-Methylnaphthalene	1.4	17	ND	U
208-96-8	Acenaphthylene	1.1	17	ND	U
83-32-9	Acenaphthene	1.2	17	ND	U
86-73-7	Fluorene	0.90	17	ND	U
85-01-8	Phenanthrene	2.6	17	ND	U
120-12-7	Anthracene	0.87	17	ND	U
206-44-0	Fluoranthene	2.7	17	ND	U
129-00-0	Pyrene	1.1	17	ND	U
56-55-3	Benzo(a)anthracene	1.1	17	ND	U
218-01-9	Chrysene	1.3	17	ND	U
205-99-2	Benzo(b)fluoranthene	1.1	17	ND	U
207-08-9	Benzo(k)fluoranthene	0.87	17	ND	U
50-32-8	Benzo(a)pyrene	0.77	17	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.73	17	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.67	17	ND	U
191-24-2	Benzo(g,h,i)perylene	0.77	17	ND	U

ND = Not Detected
Q = Qualifier

BSL

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS65-0-1

Lab Sample ID: 1005157-14
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Date Received: 05/21/10
Lab File ID: 1005157-14A70
Analyst: OWS

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS82-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/21/10

Lab Sample ID: 1005157-15
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-15A70
Analyst: OWS

% Moisture: 3 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.74	8.6	ND	UJ
91-57-6	2-Methylnaphthalene	0.70	8.6	ND	U
208-96-8	Acenaphthylene	0.55	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.46	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	ND	U
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	4.4	J
129-00-0	Pyrene	0.58	8.6	4.2	J
56-55-3	Benzo(a)anthracene	0.58	8.6	2.6	J
218-01-9	Chrysene	0.65	8.6	2.4	J
205-99-2	Benzo(b)fluoranthene	0.58	8.6	2.5	J
207-08-9	Benzo(k)fluoranthene	0.45	8.6	2.0	J
50-32-8	Benzo(a)pyrene	0.40	8.6	2.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.34	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SS82D-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/21/10

Lab Sample ID: 1005157-16
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-16A70
Analyst: OWS

% Moisture: 3 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.74	8.6	ND	U
91-57-6	2-Methylnaphthalene	0.70	8.6	ND	U
208-96-8	Acenaphthylene	0.55	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.46	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	1.8	J
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	4.0	J
129-00-0	Pyrene	0.58	8.6	3.4	J
56-55-3	Benzo(a)anthracene	0.58	8.6	2.1	J
218-01-9	Chrysene	0.65	8.6	2.3	J
205-99-2	Benzo(b)fluoranthene	0.58	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.34	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

J BSL

FORM I SV-1

Smith 8/18/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SB82-2-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/21/10

Lab Sample ID: 1005157-17
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-17A70
Analyst: OWS

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

J BS

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005157
Client Sample ID: SB82D-2-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/21/10

Lab Sample ID: 1005157-18
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005157-18A70
Analyst: OWS

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052604-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/02/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

J BSC

FORM I SV-1

SMW 8/2/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB73-9-10

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	0.25	J
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	0.22	JP
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

2C

FORM I PEST

SMK 8/20/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS51-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 28 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.4 U ~~0.31~~ ~~JP~~		2C
319-85-7	beta-BHC	2.4 ~~1.3~~ ~~JP~~	U	2C
319-84-6	alpha-BHC	2.4	U	
319-86-8	delta-BHC	2.4	U	
58-89-9	gamma-BHC (Lindane)	2.4	U	
72-54-8	4,4'-DDD	8.7		
72-55-9	4,4'-DDE	28		
50-29-3	4,4'-DDT	7.8		
60-57-1	Dieldrin	4.6	U	
959-98-8	Endosulfan I	1.3	J	
33213-65-9	Endosulfan II	0.93	J	
1031-07-8	Endosulfan sulfate	4.6 ~~0.79~~ ~~JP~~	U	2C
72-20-8	Endrin	4.6 ~~0.72~~ ~~JP~~	U	2C
7421-93-4	Endrin Aldehyde	1.0	J	
76-44-8	Heptachlor	2.4	U	
1024-57-3	Heptachlor Epoxide	1.6 ~~JP~~		2C
72-43-5	Methoxychlor	24	U	
8001-35-2	Toxaphene	120	U	
53494-70-5	Endrin Ketone	2.2	J	
5103-74-2	gamma-Chlordane	2.4	U	
5103-71-9	alpha-Chlordane	2.4	U	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS51D-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.5	J	
319-85-7	beta-BHC	2.2	~~0.63~~	~~JP~~ U	2C
319-84-6	alpha-BHC	2.2	~~0.35~~	~~BJP~~ U	MBL
319-86-8	delta-BHC		2.2	U	
58-89-9	gamma-BHC (Lindane)		2.2	U	
72-54-8	4,4'-DDD		34		
72-55-9	4,4'-DDE		57	~~E~~ X	LR
50-29-3	4,4'-DDT		7.5		
60-57-1	Dieldrin		3.1	J	
959-98-8	Endosulfan I		2.2	U	
33213-65-9	Endosulfan II		4.3	U	
1031-07-8	Endosulfan sulfate		4.3	U	
72-20-8	Endrin		4.3	U	
7421-93-4	Endrin Aldehyde		0.79	JP	2C
76-44-8	Heptachlor	2.2	~~1.0~~	~~JP~~ U	2C
1024-57-3	Heptachlor Epoxide	2.2	~~1.2~~	~~JP~~ U	2C
72-43-5	Methoxychlor		22	U	
8001-35-2	Toxaphene		110	U	
53494-70-5	Endrin Ketone		4.3	U	
5103-74-2	gamma-Chlordane	2.2	~~0.36~~	~~JP~~ U	2C
5103-71-9	alpha-Chlordane	2.2	~~0.29~~	~~JP~~ U	2C

FORM I PEST

Smt 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS51D-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-03RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	11	U
319-85-7	beta-BHC	11	U
319-84-6	alpha-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
72-54-8	4,4'-DDD	37	D
72-55-9	4,4'-DDE	58	D
50-29-3	4,4'-DDT	9.6	DJ
60-57-1	Dieldrin	3.7	DJ
959-98-8	Endosulfan I	11	U
33213-65-9	Endosulfan II	21	U
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin Aldehyde	21	U
76-44-8	Heptachlor	11	U
1024-57-3	Heptachlor Epoxide	11	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	540	U
53494-70-5	Endrin Ketone	21	U
5103-74-2	gamma-Chlordane	11	U
5103-71-9	alpha-Chlordane	11	U

X DL

X DL

FORM I PEST

6/28/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS90-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.8	U	
319-85-7	beta-BHC		1.8	U	
319-84-6	alpha-BHC		1.8	U	
319-86-8	delta-BHC		1.8	U	
58-89-9	gamma-BHC (Lindane)		1.8	U	
72-54-8	4,4'-DDD		3.5	U	
72-55-9	4,4'-DDE		3.5	U	
50-29-3	4,4'-DDT		3.5	U	
60-57-1	Dieldrin	3.5	~~0.40~~	~~JP~~ U	2C
959-98-8	Endosulfan I		1.8	U	
33213-65-9	Endosulfan II		20		
1031-07-8	Endosulfan sulfate	3.5	~~0.61~~	~~JP~~ U	2C
72-20-8	Endrin	3.5	~~1.1~~	~~JP~~ U	2C
7421-93-4	Endrin Aldehyde		3.5	U	
76-44-8	Heptachlor		1.8	U	
1024-57-3	Heptachlor Epoxide		1.8	U	
72-43-5	Methoxychlor		18	U	
8001-35-2	Toxaphene		87	U	
53494-70-5	Endrin Ketone		3.5	U	
5103-74-2	gamma-Chlordane		1.9	~~P~~ U	2C
5103-71-9	alpha-Chlordane		1.8	U	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS90-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-04RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	8.9	U
319-85-7	beta-BHC	8.9	U
319-84-6	alpha-BHC	8.9	U
319-86-8	delta-BHC	8.9	U
58-89-9	gamma-BHC (Lindane)	8.9	U
72-54-8	4,4'-DDD	17	U
72-55-9	4,4'-DDE	17	U
50-29-3	4,4'-DDT	17	U
60-57-1	Dieldrin	17	U
959-98-8	Endosulfan I	8.9	U
33213-65-9	Endosulfan II	21	D
1031-07-8	Endosulfan sulfate	17	U
72-20-8	Endrin	17	U
7421-93-4	Endrin Aldehyde	17	U
76-44-8	Heptachlor	8.9	U
1024-57-3	Heptachlor Epoxide	8.9	U
72-43-5	Methoxychlor	89	U
8001-35-2	Toxaphene	440	U
53494-70-5	Endrin Ketone	17	U
5103-74-2	gamma-Chlordane	1.3	DJP
5103-71-9	alpha-Chlordane	8.9	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB90-2-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	3.9	U
60-57-1	Dieldrin	3.9	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	0.27	JP
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	99	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

2C

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS70-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 2 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-85-7	beta-BHC	1.1	J
319-84-6	alpha-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	0.25	J
1024-57-3	Heptachlor Epoxide	1.7	U
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	85	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.7	U
5103-71-9	alpha-Chlordane	1.7	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB70-1-2

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.89	J
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	93	U
53494-70-5	Endrin Ketone	0.41	J
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS69-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin	2.0	~~0.24~~	~~JP~~ U	2C
319-85-7	beta-BHC		2.0	U	
319-84-6	alpha-BHC	2.0	~~0.67~~	~~BJP~~ U	~~2C~~ MBL
319-86-8	delta-BHC	2.0	~~0.33~~	~~JP~~ U	smL 2C
58-89-9	gamma-BHC (Lindane)		0.58	J	
72-54-8	4,4'-DDD		3.8	U	
72-55-9	4,4'-DDE		3.8	U	
50-29-3	4,4'-DDT		3.8	U	
60-57-1	Dieldrin		3.8	U	
959-98-8	Endosulfan I		2.0	U	
33213-65-9	Endosulfan II		3.8	U	
1031-07-8	Endosulfan sulfate	3.8	~~1.8~~	~~JP~~ U	2C
72-20-8	Endrin		3.8	U	
7421-93-4	Endrin Aldehyde		0.53	JP	2C
76-44-8	Heptachlor		2.0	U	
1024-57-3	Heptachlor Epoxide	2.0 ~~3.8~~	~~0.25~~	~~JP~~ U	2C
72-43-5	Methoxychlor		20	U	
8001-35-2	Toxaphene		97	U	
53494-70-5	Endrin Ketone		3.8	U	
5103-74-2	gamma-Chlordane	2.0	~~0.49~~	~~JP~~ U	2C
5103-71-9	alpha-Chlordane		2.0	U	

FORM I PEST

SMT 6/28/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB69-2-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	2.1	U	
319-85-7	beta-BHC	2.1	U	
319-84-6	alpha-BHC	2.1	U	
319-86-8	delta-BHC	0.20	J	
58-89-9	gamma-BHC (Lindane)	~~0.35~~	~~JP~~ U	2C
72-54-8	4,4'-DDD	4.0	U	
72-55-9	4,4'-DDE	4.0	U	
50-29-3	4,4'-DDT	4.0	U	
60-57-1	Dieldrin	4.0	U	
959-98-8	Endosulfan I	2.1	U	
33213-65-9	Endosulfan II	4.0	U	
1031-07-8	Endosulfan sulfate	4.0	U	
72-20-8	Endrin	4.0	U	
7421-93-4	Endrin Aldehyde	4.0	U	
76-44-8	Heptachlor	~~0.50~~	~~JP~~ U	2C
1024-57-3	Heptachlor Epoxide	0.26	J	
72-43-5	Methoxychlor	21	U	
8001-35-2	Toxaphene	100	U	
53494-70-5	Endrin Ketone	~~0.79~~	~~JP~~ U	2C
5103-74-2	gamma-Chlordane	2.1	U	
5103-71-9	alpha-Chlordane	2.1	U	

FORM I PEST

SMM 8/26/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB64-1-2

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	3.8	U
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	95	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB65-1-2

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/08/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	~~1.2~~ 2.1 ~~JP~~	U 2C
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1 ~~0.62 JP~~	U 2C
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS64-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.9	U	
319-85-7	beta-BHC		1.9	U	
319-84-6	alpha-BHC		1.9	U	
319-86-8	delta-BHC		1.9	U	
58-89-9	gamma-BHC (Lindane)		1.9	U	
72-54-8	4,4'-DDD		3.6	U	
72-55-9	4,4'-DDE		3.6	U	
50-29-3	4,4'-DDT		3.6	U	
60-57-1	Dieldrin		3.6	U	
959-98-8	Endosulfan I		1.9	U	
33213-65-9	Endosulfan II		3.6	U	
1031-07-8	Endosulfan sulfate		0.47	J	
72-20-8	Endrin		1.8	JP	2C
7421-93-4	Endrin Aldehyde		3.6	U	
76-44-8	Heptachlor		1.9	U	
1024-57-3	Heptachlor Epoxide		1.9	U	
72-43-5	Methoxychlor		19	U	
8001-35-2	Toxaphene		91	U	
53494-70-5	Endrin Ketone	3.6	~~0.44~~	~~JP~~ U	2C
5103-74-2	gamma-Chlordane		1.9	U	
5103-71-9	alpha-Chlordane		1.9	U	

FORM I PEST

SMM 8/18/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS66-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 50 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		3.4	U	
319-85-7	beta-BHC		12	~~P~~ U	2C
319-84-6	alpha-BHC		3.4	U	
319-86-8	delta-BHC	3.4	~~0.34~~	~~JP~~ U	2C
58-89-9	gamma-BHC (Lindane)		3.4	U	
72-54-8	4,4'-DDD		6.6	U	
72-55-9	4,4'-DDE		6.6	U	
50-29-3	4,4'-DDT		6.6	U	
60-57-1	Dieldrin		6.6	U	
959-98-8	Endosulfan I		3.4	U	
33213-65-9	Endosulfan II		6.6	U	
1031-07-8	Endosulfan sulfate		6.6	U	
72-20-8	Endrin		6.6	U	
7421-93-4	Endrin Aldehyde		6.6	U	
76-44-8	Heptachlor	3.4	~~1.3~~	~~JP~~ U	2C
1024-57-3	Heptachlor Epoxide		3.4	U	
72-43-5	Methoxychlor		34	U	
8001-35-2	Toxaphene		170	U	
53494-70-5	Endrin Ketone		6.6	U	
5103-74-2	gamma-Chlordane		3.4	U	
5103-71-9	alpha-Chlordane		3.4	U	

FORM I PEST

SMK 8/28/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS66-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-13RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 50 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	17	U
319-85-7	beta-BHC	12	U
319-84-6	alpha-BHC	17	U
319-86-8	delta-BHC	17	U
58-89-9	gamma-BHC (Lindane)	17	U
72-54-8	4,4'-DDD	33	U
72-55-9	4,4'-DDE	33	U
50-29-3	4,4'-DDT	33	U
60-57-1	Dieldrin	33	U
959-98-8	Endosulfan I	17	U
33213-65-9	Endosulfan II	33	U
1031-07-8	Endosulfan sulfate	33	U
72-20-8	Endrin	33	U
7421-93-4	Endrin Aldehyde	33	U
76-44-8	Heptachlor	17	U
1024-57-3	Heptachlor Epoxide	17	U
72-43-5	Methoxychlor	170	U
8001-35-2	Toxaphene	830	U
53494-70-5	Endrin Ketone	33	U
5103-74-2	gamma-Chlordane	17	U
5103-71-9	alpha-Chlordane	17	U

X DL

FORM I PEST

SMT 8/20/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS65-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		2.0	U	
319-85-7	beta-BHC	2.0	~~0.80~~ ~~JP~~	U	2C
319-84-6	alpha-BHC		2.0	U	
319-86-8	delta-BHC		2.0	U	
58-89-9	gamma-BHC (Lindane)		2.0	U	
72-54-8	4,4'-DDD		3.8	U	
72-55-9	4,4'-DDE		3.8	U	
50-29-3	4,4'-DDT		3.8	U	
60-57-1	Dieldrin		3.8	U	
959-98-8	Endosulfan I		2.0	U	
33213-65-9	Endosulfan II		3.8	U	
1031-07-8	Endosulfan sulfate		3.8	U	
72-20-8	Endrin		3.8	U	
7421-93-4	Endrin Aldehyde	3.8	~~1.1~~ ~~JP~~	U	2C
76-44-8	Heptachlor		0.45	J	
1024-57-3	Heptachlor Epoxide		2.0	U	
72-43-5	Methoxychlor		20	U	
8001-35-2	Toxaphene		97	U	
53494-70-5	Endrin Ketone		3.8	U	
5103-74-2	gamma-Chlordane		2.0	U	
5103-71-9	alpha-Chlordane	2.0	~~0.20~~ ~~JP~~	U	2C

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SS82-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8 ~~1.5~~	~~JP~~ U 2C
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	0.32	J
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	0.76	J
50-29-3	4,4'-DDT	0.67	JP 2C
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

SMT 6/28/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS82D-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		1.8	U	
319-85-7	beta-BHC	1.8	~~0.62~~ JP	U	2C
319-84-6	alpha-BHC		1.8	U	
319-86-8	delta-BHC		1.8	U	
58-89-9	gamma-BHC (Lindane)		1.8	U	
72-54-8	4,4'-DDD		3.4	U	
72-55-9	4,4'-DDE		0.74	J	
50-29-3	4,4'-DDT		0.89	J	
60-57-1	Dieldrin		3.4	U	
959-98-8	Endosulfan I		1.8	U	
33213-65-9	Endosulfan II		3.4	U	
1031-07-8	Endosulfan sulfate		3.4	U	
72-20-8	Endrin		3.4	U	
7421-93-4	Endrin Aldehyde	3.4	~~0.47~~ JP	U	2C
76-44-8	Heptachlor		1.8	U	
1024-57-3	Heptachlor Epoxide		1.8	U	
72-43-5	Methoxychlor		18	U	
8001-35-2	Toxaphene		86	U	
53494-70-5	Endrin Ketone		3.4	U	
5103-74-2	gamma-Chlordane	1.8	~~0.31~~ JP	U	2C
5103-71-9	alpha-Chlordane		1.8	U	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB82-2-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		2.0	U	
319-85-7	beta-BHC		2.0	U	
319-84-6	alpha-BHC		2.0	U	
319-86-8	delta-BHC		2.0	U	
58-89-9	gamma-BHC (Lindane)		2.0	U	
72-54-8	4,4'-DDD		3.8	U	
72-55-9	4,4'-DDE		3.8	U	
50-29-3	4,4'-DDT		3.8	U	
60-57-1	Dieldrin		3.8	U	
959-98-8	Endosulfan I		2.0	U	
33213-65-9	Endosulfan II		3.8	U	
1031-07-8	Endosulfan sulfate		3.8	U	
72-20-8	Endrin		3.8	U	
7421-93-4	Endrin Aldehyde		3.8	U	
76-44-8	Heptachlor	2.0	~~0.34~~	~~JP~~ U	21
1024-57-3	Heptachlor Epoxide		2.0	U	
72-43-5	Methoxychlor		20	U	
8001-35-2	Toxaphene		97	U	
53494-70-5	Endrin Ketone		3.8	U	
5103-74-2	gamma-Chlordane		2.0	U	
5103-71-9	alpha-Chlordane		2.0	U	

FORM I PEST

SMM 8/26/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB82D-2-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/09/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q	
309-00-2	Aldrin		2.0	U	
319-85-7	beta-BHC	2.0	~~0.44~~ ~~JP~~	U	2C
319-84-6	alpha-BHC		2.0	U	
319-86-8	delta-BHC		2.0	U	
58-89-9	gamma-BHC (Lindane)		2.0	U	
72-54-8	4,4'-DDD		3.8	U	
72-55-9	4,4'-DDE		3.8	U	
50-29-3	4,4'-DDT	3.8	~~0.81~~ ~~JP~~	U	2C
60-57-1	Dieldrin		3.8	U	
959-98-8	Endosulfan I		2.0	U	
33213-65-9	Endosulfan II		3.8	U	
1031-07-8	Endosulfan sulfate		3.8	U	
72-20-8	Endrin		3.8	U	
7421-93-4	Endrin Aldehyde		3.8	U	
76-44-8	Heptachlor		0.36	J	
1024-57-3	Heptachlor Epoxide		2.0	U	
72-43-5	Methoxychlor		20	U	
8001-35-2	Toxaphene		97	U	
53494-70-5	Endrin Ketone		3.8	U	
5103-74-2	gamma-Chlordane		2.0	U	
5103-71-9	alpha-Chlordane		2.0	U	

FORM I PEST

SMR 8/26/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB82D-2-3DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005157

Matrix: (soil/water) SOIL Lab Sample ID: 1005157-18RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/26/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/11/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	9.9	U
319-85-7	beta-BHC	9.9	U
319-84-6	alpha-BHC	9.9	U
319-86-8	delta-BHC	9.9	U
58-89-9	gamma-BHC (Lindane)	9.9	U
72-54-8	4,4'-DDD	19	U
72-55-9	4,4'-DDE	19	U
50-29-3	4,4'-DDT	19	U
60-57-1	Dieldrin	19	U
959-98-8	Endosulfan I	9.9	U
33213-65-9	Endosulfan II	19	U
1031-07-8	Endosulfan sulfate	19	U
72-20-8	Endrin	19	U
7421-93-4	Endrin Aldehyde	19	U
76-44-8	Heptachlor	9.9	U
1024-57-3	Heptachlor Epoxide	9.9	U
72-43-5	Methoxychlor	99	U
8001-35-2	Toxaphene	480	U
53494-70-5	Endrin Ketone	19	U
5103-74-2	gamma-Chlordane	9.9	U
5103-71-9	alpha-Chlordane	9.9	U

X

BL

FORM I PEST

SMM 6/18/10

the associated blank contamination level, to be considered qualitatively invalid. The result for the sample is less than the reporting limit (RL). It has been replaced with the RL and marked "U".

7.0 SURROGATE COMPOUNDS

The positive results and/or RLs for pesticide compounds for the following samples should be considered quantitative estimates. Low recoveries were obtained for the surrogate compounds for the pesticide analyses of these samples. The laboratory did not re-extract and reanalyze the sample to determine whether the recovery was due to either a matrix interference or a laboratory problem.

Sample	Surrogate Compound	Column	Qualifying Action/ Flag (s)
BBG-SB72-2-3-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SS67-0-1-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SB76-6-7-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SS87-0-1-10B	Tetrachloro-m-xylene	Both	UJ Nondetects
BBG-SS68-0-1-10B	Tetrachloro-m-xylene	Both	UJ Nondetects

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

All criteria were met. No qualifiers were applied.

9.0 FIELD DUPLICATE RESULTS

Duplicate samples BBG-SS61-0-1-10B and BBG-SS61D-0-1-10B, and BBG-SB61-6-7-10B and BBG-SB61D-6-7-10B were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for the duplicate samples are presented in Tables 2 and 3. No USEPA-established acceptance criteria exist for field duplicate samples. EDQ uses internal acceptance criteria of forty percent for detected extractable compounds to evaluate solid field duplicate samples.

Sample	Affected Compound
BBG-SS75-0-1-10B	4,4'-DDE
BBG-SB75-3.5-4.5-10B	Alpha-Chlordane
BBG-SS73-0-1-10B	alpha-BHC
BBG-SS63-0-1-10B	Heptachlor
BBG-SS61-0-1-10B	Endrin, Heptachlor
BBG-SS61D-0-1-10B	Heptachlor, Methoxychlor
BBG-SS87-0-1-10B	Endosulfan Sulfate, gamma-Chlordane
BBG-SB87-3-4-10B	alpha-BHC, Endrin Aldehyde, gamma-Chlordane
BBG-SS68-0-1-10B	Beta-BHC, Endrin, Endrin Aldehyde, Heptachlor

Poor precision (greater than 70 % difference between results) was observed for the pesticide compounds presented in Table 4 on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

Table 5 Pesticide Results Qualified Due to Dual Column Imprecision

Sample	Affected Compounds
BBG-SS73-0-1-10B	Aldrin, Heptachlor, Heptachlor Epoxide, Endrin Ketone, gamma-Chlordane
BBG-SS75-0-1-10B	delta-BHC, 4,4'-DDT, Endosulfan Sulfate, Heptachlor Epoxide
BBG-SB75-3.5-4.5-10B	Heptachlor Epoxide
BBG-SS63-0-1-10B	delta-BHC, Endrin Aldehyde, gamma-Chlordane, alpha-Chlordane
BBG-SS61-0-1-10B	Endosulfan sulfate, Endrin Ketone
BBG-SS61D-0-1-10B	gamma-Chlordane
BBG-SS67-0-1-10B	beta-BHC, alpha-BHC, delta-BHC, Endosulfan I, Endosulfan II, Endosulfan Sulfate, Heptachlor, Heptachlor Epoxide, Endrin Ketone, gamma-Chlordane
BBG-SS72-0-1-10B	alpha-BHC
BBG-SS76-0-1-10B	Aldrin, 4,4'-DDT, Dieldrin, Endrin, Heptachlor Epoxide
BBG-SB87-3-4-10B	Heptachlor
BBG-SS68-0-1-10B	4,4'-DDD, 4,4'-DDT, Endosulfan I, Endrin Ketone, gamma-Chlordane, alpha-

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005180
Fraction: Organic
Matrix: Solid
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for soil samples. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997.

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawne M. Rodgers
President

8/29/2011
Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following compounds were detected in associated laboratory method and/or field blanks.

Blank	Compound	Concentration (µg/Kg)	Associated Samples
SBLKDW	Naphthalene	0.77	All Samples

The naphthalene results for samples BBG-SB41-1-2-10B, BBG-SS35-0-1-10B, and BBG-SB35-2-3-10B are qualitatively invalid due to the presence of this compound in the associated laboratory method blank. USEPA protocol requires positive results for uncommon contaminants, such as

naphthalene, that are less than or equal to five times the associated blank contamination level, to be considered qualitatively invalid. The result for the sample is less than the reporting limit (RL). It has been replaced with the RL and marked "U".

7.0 SURROGATE COMPOUNDS

All criteria were met. No qualifiers were applied.

8.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY

The laboratory did not select a site sample to perform matrix spike/ matrix spike duplicate analyses. Therefore, the associated sample data could not be evaluated based on these parameters. This should be noted when assessing the sample data.

9.0 FIELD DUPLICATE RESULTS

There were no field duplicate samples submitted with this SDG.

10.0 LABORATORY CONTROL SAMPLE RESULTS

The naphthalene, 2-methylnaphthalen, acenaphthylene, acenaphthene, fluorene, phenanthrene, and anthracene RLs are biased low quantitative estimates, and may be higher than reported. Low recoveries for these compounds were obtained for the associated laboratory control sample analysis. The low recoveries indicate inefficiencies with the sample extraction/analytical processes. The naphthalene, 2-methylnaphthalen, acenaphthylene, acenaphthene, fluorene, phenanthrene, and anthracene have been marked with "UJ" qualifiers to indicate that they are biased low quantitative estimates.

11.0 INTERNAL STANDARD PERFORMANCE

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

Poor precision (greater than 70 % difference between results) was observed for the pesticide compounds presented in Table 2 on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

Sample	Affected Compound
BBG-SB41-1-2-10B	Gamma-Chlordane
BBG-SS35-0-1-10B	Endosulfan Sulfate, Endrin Aldehyde

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Polynuclear Aromatic Hydrocarbons	Method 8270C, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997
Pesticide Compounds	Method 8081A, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-SS41-0-1-10B	1005180	1005180-01	5/20/2010	Soil	X	X	X			X
BBG-SB41-1-2-10B	1005180	1005180-02	5/20/2010	Soil	X	X	X			X
BBG-SS35-0-1-10B	1005180	1005180-03	5/20/2010	Soil	X	X	X			X
BBG-SB35-2-3-10B	1005180	1005180-04	5/20/2010	Soil	X	X	X			X

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005180
Client Sample ID: SB35-2-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005180-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005180-04A70
Analyst: OWS

% Moisture: 11 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060119-BLK1

Date Extracted: 06/01/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.3	ND	UJ
91-57-6	2-Methylnaphthalene	0.77	9.3	ND	U
208-96-8	Acenaphthylene	0.60	9.3	ND	U
83-32-9	Acenaphthene	0.67	9.3	ND	U
86-73-7	Fluorene	0.51	9.3	ND	U
85-01-8	Phenanthrene	1.5	9.3	ND	U
120-12-7	Anthracene	0.49	9.3	ND	U
206-44-0	Fluoranthene	1.5	9.3	ND	U
129-00-0	Pyrene	0.64	9.3	ND	U
56-55-3	Benzo(a)anthracene	0.64	9.3	ND	U
218-01-9	Chrysene	0.71	9.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.64	9.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.49	9.3	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.3	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005180
Client Sample ID: SB41-1-2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005180-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005180-02A70
Analyst: OWS

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060119-BLK1

Date Extracted: 06/01/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	~~10 U~~ 1.9	~~UB~~ J
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	ND	U
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.69	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

MBL
BSL

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/26/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005180
Client Sample ID: SS35-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005180-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005180-03A70
Analyst: OWS

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060119-BLK1

Date Extracted: 06/01/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	~~0.86~~	~~JB~~ U
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

MRC BSL

FORM I SV-1

SMM 8/20/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005180
Client Sample ID: SS41-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005180-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005180-01A70
Analyst: OWS

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060119-BLK1

Date Extracted: 06/01/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	9.0 1.4	~~JB~~ U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U J
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

MB BSL

ND = Not Detected
Q = Qualifier

FORM I SV-1

8/26/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS41-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005180

Matrix: (soil/water) SOIL Lab Sample ID: 1005180-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/01/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.93	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB41-1-2

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005180

Matrix: (soil/water) SOIL Lab Sample ID: 1005180-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/01/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.0	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	0.41	J
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1 ~~0.42~~	~~JP~~ U
5103-71-9	alpha-Chlordane	2.1	U

2C

FORM I PEST

6/20/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS35-0-1

ab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005180

Matrix: (soil/water) SOIL Lab Sample ID: 1005180-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/01/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
309-00-2	Aldrin	1.8	U	
319-85-7	beta-BHC	0.90	U	
319-84-6	alpha-BHC	1.8	U	
319-86-8	delta-BHC	1.8	U	
58-89-9	gamma-BHC (Lindane)	1.8	U	
72-54-8	4,4'-DDD	3.5	U	
72-55-9	4,4'-DDE	3.5	U	
50-29-3	4,4'-DDT	3.5	U	
60-57-1	Dieldrin	3.5	U	
959-98-8	Endosulfan I	0.20	J	
33213-65-9	Endosulfan II	3.5	U	
1031-07-8	Endosulfan sulfate	3.5 ~~0.41 JP~~	U	2C
72-20-8	Endrin	3.5	U	
7421-93-4	Endrin Aldehyde	3.5 ~~0.36 JP~~	U	2C
76-44-8	Heptachlor	1.8	U	
1024-57-3	Heptachlor Epoxide	1.8	U	
72-43-5	Methoxychlor	18	U	
8001-35-2	Toxaphene	87	U	
53494-70-5	Endrin Ketone	3.5	U	
5103-74-2	gamma-Chlordane	1.8	U	
5103-71-9	alpha-Chlordane	1.8	U	

FORM I PEST

SM 6/26/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB35-2-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005180

Matrix: (soil/water) SOIL Lab Sample ID: 1005180-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 06/01/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/10/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.96	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	93	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

FORM I PEST

6/26/10

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

All criteria were met. No qualifiers were applied.

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

The following compounds were detected in associated laboratory method and/or field blanks.

Blank	Compound	Concentration (µg/Kg)	Associated Samples
SBLKDW	Naphthalene	0.77	All Samples

The naphthalene results for samples BBG-SB41-1-2-10B, BBG-SB41-1-2-10B and BBG-SS35-0-1-10B are qualitatively invalid due to the presence of this compound in the associated laboratory method blank. USEPA protocol requires positive results for uncommon contaminants, such as

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005180
Client Sample ID: SS35-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/20/10

Lab Sample ID: 1005180-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/21/10
Lab File ID: 1005180-03A70
Analyst: OWS

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060119-BLK1

Date Extracted: 06/01/10
Date Analyzed: 07/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	~~0.86~~ 8.7	~~JB~~ U
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Project: MCB Camp Lejeune (CTO-094), Jacksonville, NC
Laboratory: Compuchem
Sample Delivery Group: 1005187
Fraction: Organic
Matrix: Aqueous
Report Date: 8/29/2010

This analytical quality assurance report is based upon a review of analytical data generated for groundwater samples. One field duplicate samples and one matrix spike/matrix spike duplicate sample were submitted with the samples for this Sample Delivery Group. The sample locations, laboratory identification numbers, sample collection dates, sample matrix, and analyses performed are presented in Table 1.

The samples were analyzed for polynuclear aromatic hydrocarbons and pesticide compounds. The sample analyses were performed in accordance with the procedures outlined in "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

All sample analyses have undergone an analytical quality assurance review to ensure adherence to the required protocols. Results have been validated or qualified according to general guidance provided in the "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", OSWER 9240.1-45 EPA 540-R-04-004, October 1999, and "Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services", USEPA Region IV, Revision 2.1, July 1999.

This document specifies procedures for validating data generated for CLP analyses. Therefore, the quality control requirements specified in the methods and associated acceptance criteria were also used to evaluate the non-CLP data. The parameters presented on the following page were evaluated.

X	•	Data Completeness
X	•	Chain of Custody Documentation
X	•	Holding Times
X	•	Instrument Performance
X	•	Initial and Continuing Calibrations
X	•	Laboratory and Field Blank Analysis Results
X	•	Surrogate Compound Recoveries
X	•	Matrix Spike/Matrix Spike Duplicate Recoveries and Reproducibility
X	•	Field Duplicate Analysis Results
X	•	Laboratory Control Sample Results
X	•	Internal Standard Performance
X	•	Qualitative Identification
X	•	Quantitation/Reporting Limits

X - Denotes parameter evaluated.

It is recommended that the data only be used according to the qualifiers presented, and discussed in this report. All other data should be considered qualitatively and quantitatively valid as reported by the laboratory, based on the items evaluated.

Report Approved By:

Shawnie M. Rodgers
President

8/30/2011
Date

1.0 *DATA COMPLETENESS*

The data package was complete.

2.0 *CHAIN OF CUSTODY DOCUMENTATION*

The chain of custody documentation was complete.

3.0 *HOLDING TIMES*

The positive results and reporting limits (RLs) for polynuclear aromatic hydrocarbons for all samples should be considered biased quantitative estimates, and may be higher than reported. The laboratory analyzed these samples five to seven days outside of the technical holding time of 40 days. Because the samples were analyzed outside of holding times, biological or chemical degradation may have occurred. Positive results for polynuclear aromatic hydrocarbons for the samples have been marked with "J" qualifiers to indicate that they are quantitative estimates. RLs have been marked "UJ".

4.0 *INSTRUMENT PERFORMANCE*

All criteria were met. No qualifiers were applied.

5.0 *INITIAL AND CONTINUING CALIBRATIONS*

All criteria were met. No qualifiers were applied.

6.0 *LABORATORY AND FIELD BLANK ANALYSIS RESULTS*

All criteria were met. No qualifiers were applied.

7.0 *SURROGATE COMPOUNDS*

All criteria were met. No qualifiers were applied.

8.0 *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND REPRODUCIBILITY*

All criteria were met. No qualifiers were applied.

9.0 *FIELD DUPLICATE RESULTS*

Duplicate samples BBG-GW09-10B and BBG-GW09D-10B were submitted to the laboratory to evaluate sampling and analytical precision for those organic compounds determined to be present. Results for the duplicate samples are presented in Table 2. There are no USEPA-established acceptance criteria for field duplicate samples. EDQ uses internal acceptance criteria of twenty-five percent for detected extractable compounds to evaluate aqueous field duplicate samples.

10.0 *LABORATORY CONTROL SAMPLE RESULTS*

All criteria were met. No qualifiers were applied.

11.0 *INTERNAL STANDARD PERFORMANCE*

All criteria were met. No qualifiers were applied.

12.0 *QUALITATIVE IDENTIFICATION*

All criteria were met. No qualifiers were applied.

13.0 *QUANTITATION/REPORTING LIMITS*

A lack of precision (greater than 40 %, but less than 70 % difference between results) was observed for the following pesticide compounds on the dual chromatographic columns used for sample analysis. The laboratory for reporting purposes used the lower concentration for these compounds. Results less than the RL been marked with "J" qualifiers to indicate that they are quantitative estimates. Results greater than the RL are marked "N".

Sample	Affected Compound
BBG-EB3-052710	beta-BHC

Poor precision (greater than 70 % difference between results) was observed for the pesticide compounds presented in Table 4 on the dual chromatographic columns used for sample analysis. As required by USEPA protocol, the laboratory for reporting purposes used the lower concentration for these compounds. The positive pesticide results that are less than the RL should be considered non-detected at the RL. The results have been replaced with the RL and marked "U". For results greater than the RL should be considered nondetects at the level reported. The numeric values have been marked "U".

Sample	Affected Compound
BBG-GW01-10B	4,4'-DDT
BBG-GW09-10B	4,4'-DDT
BBG-GW07-10B	4,4'-DDT
BBG-EB1-052710	Beta-BHC
BBG-GW04-10B	Heptachlor Epoxide
BBG-GW03UCH-10B	Dieldrin, Endosulfan I, alpha-Chlordane
BBG-EB3-052710	gamma-Chlordane

As required by USEPA protocol, all compounds, which were qualitatively identified at concentrations below their respective RLs, have been marked with "J" qualifiers to indicate that they are quantitative estimates.

METHODOLOGY REFERENCES

Analysis	Reference
Volatile Organic Compounds	Method 8260B, "Test Methods for Evaluating Solid Wastes", SW-846, third edition, Promulgated Updates II, IIA, and III, June 1997

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
Sample_Name	SDG	Lab_Sample_ID	teTime_Collec	Total Of SDG	8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-GW10-10B	1005187	1005187-01	5/24/2010	Groundwater	X	X	X			X
BBG-GW10-10B	1005187	1005187-01RE1	5/24/2010	Groundwater				X		
BBG-FB-052510	1005187	1005187-02	5/25/2010	Field Blank	X	X	X			X
BBG-FB-052510	1005187	1005187-02RE1	5/25/2010	Field Blank				X		
BBG-GW01-10B	1005187	1005187-03	5/25/2010	Groundwater	X	X	X			X
BBG-GW01-10B	1005187	1005187-03RE1	5/25/2010	Groundwater				X		
BBG-EB1-052510	1005187	1005187-04	5/25/2010	Equipment Blank	X	X	X			X
BBG-EB1-052510	1005187	1005187-04RE1	5/25/2010	Equipment Blank				X		
BBG-GW03-10B	1005187	1005187-05	5/25/2010	Groundwater	X	X	X			X
BBG-GW03-10B	1005187	1005187-05RE1	5/25/2010	Groundwater				X		
BBG-EB2-052510	1005187	1005187-06	5/25/2010	Equipment Blank	X	X	X			X
BBG-EB2-052510	1005187	1005187-06RE1	5/25/2010	Equipment Blank				X		
BBG-GW09-10B	1005187	1005187-07	5/26/2010	Groundwater	X	X	X			X
BBG-GW09-10B	1005187	1005187-07RE1	5/26/2010	Groundwater				X		
BBG-GW09D-10B	1005187	1005187-08	5/26/2010	Groundwater	X	X	X			X
BBG-GW09D-10B	1005187	1005187-08RE1	5/26/2010	Groundwater				X		
BBG-GW08-10B	1005187	1005187-09	5/26/2010	Groundwater	X	X	X			X
BBG-GW08-10B	1005187	1005187-09RE1	5/26/2010	Groundwater				X		
BBG-GW07-10B	1005187	1005187-10	5/27/2010	Groundwater	X	X	X			X
BBG-GW07-10B	1005187	1005187-10RE1	5/27/2010	Groundwater				X		
BBG-EB1-052710	1005187	1005187-11	5/27/2010	Equipment Blank	X	X	X			X
BBG-EB1-052710	1005187	1005187-11RE1	5/27/2010	Equipment Blank				X		
BBG-GW04-10B	1005187	1005187-12	5/27/2010	Groundwater	X	X	X			X
BBG-GW04-10B	1005187	1005187-12RE1	5/27/2010	Groundwater				X		
BBG-GW03UCH-10B	1005187	1005187-13	5/27/2010	Groundwater	X	X	X			X
BBG-GW03UCH-10B	1005187	1005187-13RE1	5/27/2010	Groundwater				X		
BBG-GW02-10B	1005187	1005187-14	5/27/2010	Groundwater	X	X	X			X
BBG-GW02-10B	1005187	1005187-14RE2	5/27/2010	Groundwater				X		

Table 1 Samples For Data Validation Review
MCB Camp Lejeune, North Carolina (CTO-94)
Samples Collected May and June 2010

SAMPLE I.D.	SDG	LABORATORY I.D	DATE COLLECTED	MATRIX	ANALYSES PERFORMED					
					8270C_SIM	8081B	6010B	7470A	7471A	7196A
BBG-EB2-052710	1005187	1005187-15	5/27/2010	Equipment Blank	X	X	X			X
BBG-EB2-052710	1005187	1005187-15RE1	5/27/2010	Equipment Blank				X		
BBG-EB3-052710	1005187	1005187-16	5/27/2010	Equipment Blank	X	X	X			X
BBG-EB3-052710	1005187	1005187-16RE1	5/27/2010	Equipment Blank				X		

Table 2 **Field Duplicate Sample Results for Organic Analyses**
Groundwater Duplicate Samples BBG-GW09-10B and BBG-GW09D-10B

Analyte	Sample Result (µg/L)		Field Duplicate Result (µg/L)	RPD	ACTION
	BBG-GW09-10B		BBG-GW09D-10B		
Dieldrin	0.0028	J	ND	NC	

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/25/10

Lab Sample ID: 1005187-03
Sample wt/vol: 900 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/25/10
Lab File ID: 1005187-03A66
Analyst: RKM

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052635-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/10/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.033	0.22	ND	U J
91-57-6	2-Methylnaphthalene	0.017	0.22	ND	U
208-96-8	Acenaphthylene	0.011	0.22	ND	U
83-32-9	Acenaphthene	0.039	0.22	ND	U
86-73-7	Fluorene	0.050	0.22	ND	U
85-01-8	Phenanthrene	0.039	0.22	ND	U
120-12-7	Anthracene	0.022	0.22	ND	U
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.017	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

HT

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/2/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW02

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/27/10

Lab Sample ID: 1005187-14
Sample wt/vol: 950 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/27/10
Lab File ID: 1005187-14A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/13/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.21	ND	UJ
91-57-6	2-Methylnaphthalene	0.016	0.21	ND	U
208-96-8	Acenaphthylene	0.011	0.21	ND	U
83-32-9	Acenaphthene	0.037	0.21	ND	U
86-73-7	Fluorene	0.047	0.21	ND	U
85-01-8	Phenanthrene	0.037	0.21	ND	U
120-12-7	Anthracene	0.021	0.21	ND	U
206-44-0	Fluoranthene	0.011	0.21	ND	U
129-00-0	Pyrene	0.011	0.21	ND	U
56-55-3	Benzo(a)anthracene	0.021	0.21	ND	U
218-01-9	Chrysene	0.016	0.21	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.21	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.21	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.21	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.21	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.21	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.21	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMW 8/27/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW03

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/25/10

Lab Sample ID: 1005187-05
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/25/10
Lab File ID: 1005187-05A66
Analyst: RKM

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052635-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/10/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	ND	U J HT
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U |
208-96-8	Acenaphthylene	0.0100	0.20	0.014	J
83-32-9	Acenaphthene	0.035	0.20	ND	U J
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW03UCH

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/27/10

Lab Sample ID: 1005187-13
Sample wt/vol: 925 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/27/10
Lab File ID: 1005187-13A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N)___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/13/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.22	ND	UJ
91-57-6	2-Methylnaphthalene	0.016	0.22	ND	U
208-96-8	Acenaphthylene	0.011	0.22	ND	U
83-32-9	Acenaphthene	0.038	0.22	ND	U
86-73-7	Fluorene	0.049	0.22	ND	U
85-01-8	Phenanthrene	0.038	0.22	ND	U
120-12-7	Anthracene	0.022	0.22	ND	U
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.016	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

HT

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 7/21/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW04

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/27/10

Lab Sample ID: 1005187-12
Sample wt/vol: 500 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/27/10
Lab File ID: 1005187-12A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N)___
Concentrated Extract Volume: 500(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/13/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	ND	UJ
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW07

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/27/10

Lab Sample ID: 1005187-10
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/27/10
Lab File ID: 1005187-10A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/13/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	ND	UJ
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMT 8/2/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW08

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/26/10

Lab Sample ID: 1005187-09
Sample wt/vol: 950 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/26/10
Lab File ID: 1005187-09A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/13/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.21	ND	UJ
91-57-6	2-Methylnaphthalene	0.016	0.21	ND	U
208-96-8	Acenaphthylene	0.011	0.21	ND	U
83-32-9	Acenaphthene	0.037	0.21	ND	U
86-73-7	Fluorene	0.047	0.21	ND	U
85-01-8	Phenanthrene	0.037	0.21	ND	U
120-12-7	Anthracene	0.021	0.21	ND	U
206-44-0	Fluoranthene	0.011	0.21	ND	U
129-00-0	Pyrene	0.011	0.21	ND	U
56-55-3	Benzo(a)anthracene	0.021	0.21	ND	U
218-01-9	Chrysene	0.016	0.21	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.21	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.21	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.21	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.21	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.21	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.21	ND	U

HT

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMT 8/27/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW09

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/26/10

Lab Sample ID: 1005187-07
Sample wt/vol: 925 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/26/10
Lab File ID: 1005187-07A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000 (uL)
Injection Volume: 2.0 (uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/13/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.22	ND	UJ HT
91-57-6	2-Methylnaphthalene	0.016	0.22	ND	U
208-96-8	Acenaphthylene	0.011	0.22	ND	U
83-32-9	Acenaphthene	0.038	0.22	ND	U
86-73-7	Fluorene	0.049	0.22	ND	U
85-01-8	Phenanthrene	0.038	0.22	ND	U
120-12-7	Anthracene	0.022	0.22	ND	U
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.016	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMM 8/2/2010

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW09D

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/26/10

Lab Sample ID: 1005187-08
Sample wt/vol: 950 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/26/10
Lab File ID: 1005187-08A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000 (uL)
Injection Volume: 2.0 (uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/13/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.21	ND	UJ
91-57-6	2-Methylnaphthalene	0.016	0.21	ND	U
208-96-8	Acenaphthylene	0.011	0.21	ND	U
83-32-9	Acenaphthene	0.037	0.21	ND	U
86-73-7	Fluorene	0.047	0.21	ND	U
85-01-8	Phenanthrene	0.037	0.21	ND	U
120-12-7	Anthracene	0.021	0.21	ND	U
206-44-0	Fluoranthene	0.011	0.21	ND	U
129-00-0	Pyrene	0.011	0.21	ND	U
56-55-3	Benzo(a)anthracene	0.021	0.21	ND	U
218-01-9	Chrysene	0.016	0.21	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.21	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.21	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.21	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.21	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.21	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.21	ND	U

HT

ND = Not Detected
Q = Qualifier

FORM I SV-1

SM 8/27/10

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: BBG-GW10

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/24/10

Lab Sample ID: 1005187-01
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/24/10
Lab File ID: 1005187-01A66
Analyst: RKM

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052635-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/10/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	ND	U
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: EB1-052510

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/25/10

Lab Sample ID: 1005187-04
Sample wt/vol: 975 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/25/10
Lab File ID: 1005187-04A66
Analyst: RKM

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052635-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/10/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.031	0.21	0.13	J
91-57-6	2-Methylnaphthalene	0.015	0.21	0.017	J
208-96-8	Acenaphthylene	0.010	0.21	ND	U
83-32-9	Acenaphthene	0.036	0.21	ND	U
86-73-7	Fluorene	0.046	0.21	ND	U
85-01-8	Phenanthrene	0.036	0.21	ND	U
120-12-7	Anthracene	0.021	0.21	ND	U
206-44-0	Fluoranthene	0.010	0.21	ND	U
129-00-0	Pyrene	0.010	0.21	ND	U
56-55-3	Benzo(a)anthracene	0.021	0.21	ND	U
218-01-9	Chrysene	0.015	0.21	ND	U
205-99-2	Benzo(b)fluoranthene	0.010	0.21	ND	U
207-08-9	Benzo(k)fluoranthene	0.010	0.21	ND	U
50-32-8	Benzo(a)pyrene	0.010	0.21	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	0.21	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.010	0.21	ND	U
191-24-2	Benzo(g,h,i)perylene	0.010	0.21	ND	U

ND = Not Detected
Q = Qualifier

HT
J

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: EB1-052710

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/27/10

Lab Sample ID: 1005187-11
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/27/10
Lab File ID: 1005187-11A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N)___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/13/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.19	J
91-57-6	2-Methylnaphthalene	0.015	0.20	0.028	J
208-96-8	Acenaphthylene	0.0100	0.20	ND	UJ
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

HT

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: EB2-052510

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/25/10

Lab Sample ID: 1005187-06
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/25/10
Lab File ID: 1005187-06A66
Analyst: RKM

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052635-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/10/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.099	J
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	UJ
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: EB2-052710

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/27/10

Lab Sample ID: 1005187-15
Sample wt/vol: 975 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/27/10
Lab File ID: 1005187-15A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000 (uL)
Injection Volume: 2.0 (uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/14/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.031	0.21	0.25	J
91-57-6	2-Methylnaphthalene	0.015	0.21	0.047	J
208-96-8	Acenaphthylene	0.010	0.21	ND	U
83-32-9	Acenaphthene	0.036	0.21	ND	U
86-73-7	Fluorene	0.046	0.21	ND	U
85-01-8	Phenanthrene	0.036	0.21	ND	U
120-12-7	Anthracene	0.021	0.21	ND	U
206-44-0	Fluoranthene	0.010	0.21	0.011	J
129-00-0	Pyrene	0.010	0.21	0.012	J
56-55-3	Benzo(a)anthracene	0.021	0.21	ND	U
218-01-9	Chrysene	0.015	0.21	ND	U
205-99-2	Benzo(b)fluoranthene	0.010	0.21	ND	U
207-08-9	Benzo(k)fluoranthene	0.010	0.21	ND	U
50-32-8	Benzo(a)pyrene	0.010	0.21	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.010	0.21	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.010	0.21	ND	U
191-24-2	Benzo(g,h,i)perylene	0.010	0.21	ND	U

HT

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: EB3-052710

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/27/10

Lab Sample ID: 1005187-16
Sample wt/vol: 900 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/27/10
Lab File ID: 1005187-16A68
Analyst: OWS

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052804-BLK1

Date Extracted: 05/28/10
Date Analyzed: 07/14/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.033	0.22	0.20	J
91-57-6	2-Methylnaphthalene	0.017	0.22	0.065	J
208-96-8	Acenaphthylene	0.011	0.22	0.014	J
83-32-9	Acenaphthene	0.039	0.22	ND	U
86-73-7	Fluorene	0.050	0.22	0.055	J
85-01-8	Phenanthrene	0.039	0.22	0.049	J
120-12-7	Anthracene	0.022	0.22	0.037	J
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.017	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005187
Client Sample ID: FB-052510

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/25/10

Lab Sample ID: 1005187-02
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: 05/25/10
Lab File ID: 1005187-02A66
Analyst: RKM

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052635-BLK1

Date Extracted: 05/26/10
Date Analyzed: 07/10/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.12	J
91-57-6	2-Methylnaphthalene	0.015	0.20	0.017	J
208-96-8	Acenaphthylene	0.0100	0.20	ND	UJ
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

HT

ND = Not Detected
Q = Qualifier

FORM I SV-1

SMS 8/27/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW10

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-01

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/24/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/27/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB-052510

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/25/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/27/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

SMM 8/27/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/25/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/27/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10 ~~0.0054~~	U ~~JP~~
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

2C

FORM I PEST

SMM 8/27/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB1-052510

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-04

Sample wt/vol: 975.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/25/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/27/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.051	U
319-85-7	beta-BHC	0.0065	J
319-84-6	alpha-BHC	0.051	U
319-86-8	delta-BHC	0.051	U
58-89-9	gamma-BHC (Lindane)	0.051	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.051	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.051	U
1024-57-3	Heptachlor Epoxide	0.051	U
72-43-5	Methoxychlor	0.51	U
8001-35-2	Toxaphene	2.6	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.051	U
5103-71-9	alpha-Chlordane	0.051	U

FORM I PEST

SMK 6/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW03

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/25/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/27/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB2-052510

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-06

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/25/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/27/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/05/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.056	U
319-85-7	beta-BHC	0.056	U
319-84-6	alpha-BHC	0.056	U
319-86-8	delta-BHC	0.056	U
58-89-9	gamma-BHC (Lindane)	0.056	U
72-54-8	4,4'-DDD	0.11	U
72-55-9	4,4'-DDE	0.11	U
50-29-3	4,4'-DDT	0.11	U
60-57-1	Dieldrin	0.11	U
959-98-8	Endosulfan I	0.056	U
33213-65-9	Endosulfan II	0.11	U
1031-07-8	Endosulfan sulfate	0.11	U
72-20-8	Endrin	0.11	U
7421-93-4	Endrin Aldehyde	0.11	U
76-44-8	Heptachlor	0.056	U
1024-57-3	Heptachlor Epoxide	0.056	U
72-43-5	Methoxychlor	0.56	U
8001-35-2	Toxaphene	2.8	U
53494-70-5	Endrin Ketone	0.11	U
5103-74-2	gamma-Chlordane	0.056	U
5103-71-9	alpha-Chlordane	0.056	U

FORM I PEST

SMM 6/21/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW09

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-07

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/26/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
309-00-2	Aldrin		0.050	U
319-85-7	beta-BHC		0.050	U
319-84-6	alpha-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
72-54-8	4,4'-DDD		0.10	U
72-55-9	4,4'-DDE		0.10	U
50-29-3	4,4'-DDT	0.10	~~0.0053~~ JP 4	2C
60-57-1	Dieldrin		0.0028	J
959-98-8	Endosulfan I		0.050	U
33213-65-9	Endosulfan II		0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
72-20-8	Endrin		0.10	U
7421-93-4	Endrin Aldehyde		0.10	U
76-44-8	Heptachlor		0.050	U
1024-57-3	Heptachlor Epoxide		0.050	U
72-43-5	Methoxychlor		0.50	U
8001-35-2	Toxaphene		2.5	U
53494-70-5	Endrin Ketone		0.10	U
5103-74-2	gamma-Chlordane		0.050	U
5103-71-9	alpha-Chlordane		0.050	U

FORM I PEST

SMK 8/27/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW09D

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-08

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/26/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW08

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-09

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/26/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW07

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-10

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/27/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	~~0.0055~~ 0.10	~~JP~~ U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

0.10 U 2C

FORM I PEST

SMM 6/21/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB1-052710

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-11

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/27/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050 ~~0.0076~~	U ~~JP~~ U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

0.050 SC

FORM I PEST

SMA 8/27/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW04

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-12

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/27/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.056	U
319-85-7	beta-BHC	0.056	U
319-84-6	alpha-BHC	0.056	U
319-86-8	delta-BHC	0.056	U
58-89-9	gamma-BHC (Lindane)	0.056	U
72-54-8	4,4'-DDD	0.11	U
72-55-9	4,4'-DDE	0.11	U
50-29-3	4,4'-DDT	0.11	U
60-57-1	Dieldrin	0.11	U
959-98-8	Endosulfan I	0.056	U
33213-65-9	Endosulfan II	0.0075	J
1031-07-8	Endosulfan sulfate	0.11	U
72-20-8	Endrin	0.11	U
7421-93-4	Endrin Aldehyde	0.11	U
76-44-8	Heptachlor	0.056	U
1024-57-3	Heptachlor Epoxide	0.0068 ~~0.0068~~ ~~JP~~ J	2C
72-43-5	Methoxychlor	0.56	U
8001-35-2	Toxaphene	2.8	U
53494-70-5	Endrin Ketone	0.11	U
5103-74-2	gamma-Chlordane	0.056	U
5103-71-9	alpha-Chlordane	0.056	U

FORM I PEST

SMM 8/27/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW03UCH

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-13

Sample wt/vol: 975.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/27/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q	
309-00-2	Aldrin	0.051	U	
319-85-7	beta-BHC	0.051	U	
319-84-6	alpha-BHC	0.051	U	
319-86-8	delta-BHC	0.051	U	
58-89-9	gamma-BHC (Lindane)	0.051	U	
72-54-8	4,4'-DDD	0.10	U	
72-55-9	4,4'-DDE	0.10	U	
50-29-3	4,4'-DDT	0.0061	JP	
60-57-1	Dieldrin	0.10 ~~0.0065~~	~~JP~~ U	2C
959-98-8	Endosulfan I	0.051 ~~0.013~~	~~JP~~ U	1
33213-65-9	Endosulfan II	0.10	U	
1031-07-8	Endosulfan sulfate	0.10	U	
72-20-8	Endrin	0.10	U	
7421-93-4	Endrin Aldehyde	0.10	U	
76-44-8	Heptachlor	0.051	U	
1024-57-3	Heptachlor Epoxide	0.051	U	
72-43-5	Methoxychlor	0.51	U	
8001-35-2	Toxaphene	2.6	U	
53494-70-5	Endrin Ketone	0.10	U	
5103-74-2	gamma-Chlordane	0.051	U	
5103-71-9	alpha-Chlordane	0.051 ~~0.0078~~	~~JP~~ U	2C

FORM I PEST

SMM 8/20/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-GW02

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-14

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/27/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

SMT 6/21/2010

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB2-052710

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-15

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/27/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.0064	J
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB3-052710

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005187

Matrix: (soil/water) WATER Lab Sample ID: 1005187-16

Sample wt/vol: 900.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/27/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 05/28/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/06/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
309-00-2	Aldrin		0.056	U
319-85-7	beta-BHC		0.021	JP ✓ 2C
319-84-6	alpha-BHC		0.056	U
319-86-8	delta-BHC		0.016	J
58-89-9	gamma-BHC (Lindane)		0.056	U
72-54-8	4,4'-DDD		0.11	U
72-55-9	4,4'-DDE		0.11	U
50-29-3	4,4'-DDT		0.043	J
60-57-1	Dieldrin		0.11	U
959-98-8	Endosulfan I		0.056	U
33213-65-9	Endosulfan II		0.11	U
1031-07-8	Endosulfan sulfate		0.11	U
72-20-8	Endrin		0.11	U
7421-93-4	Endrin Aldehyde		0.11	U
76-44-8	Heptachlor		0.056	U
1024-57-3	Heptachlor Epoxide		0.021	J
72-43-5	Methoxychlor		0.56	U
8001-35-2	Toxaphene		2.8	U
53494-70-5	Endrin Ketone		0.11	U
5103-74-2	gamma-Chlordane	0.056	~~0.0095~~ JP U	2C
5103-71-9	alpha-Chlordane		0.056	U

FORM I PEST

smk 8/12/10

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE
SDG # 1005129
REVISED

The indicated Sample Delivery Group (SDG) consisting of twenty (20) solid samples was received into the laboratory information management system (LIMS) on May 13 and 14, 2010 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 0.2 to 4.1°C. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were prepared and analyzed in accordance with SW846 methodology for the requested TAL metals and mercury.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV) and blanks (ICB & CCB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verification (PBS & LCSS) was found to be within acceptable ranges and field samples were prepared and analyzed within the specified holding times. The original preparation of the metals had blank contamination so therefore the samples were reprepped and analyzed.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spikes, CCN = 1005129-05 ID SS53-0-1S and SS53-0-1SD were inside control limits for the requested analytes.

The sample matrix duplicate, CCN = 1005129-05 ID SS53-0-1D was inside control limits for the requested analytes.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 1005129-05 ID SS53-0-1L was performed in accordance with requirements for ICP and mercury analysis.

The adjusted sample concentration was inside control limits for the requested analytes.

Control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

AMENDED
DATA

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

Susan W. Bass
Senior Chemist
June 7, 2010

AMENDED
DATA

CompuChem

A Division Of

Liberty Analytical Corp.

6/10/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S, WorkOrder: 1005129

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005129

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005129

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005129-01	SS55-00-01	Soil	05/11/2010 07:40	05/13/2010 09:30
1005129-02	SB55-00-2.5-3	Soil	05/11/2010 07:50	05/13/2010 09:30
1005129-03	SS54-0-1	Soil	05/11/2010 08:40	05/13/2010 09:30
1005129-04	SB54-4-5	Soil	05/11/2010 08:50	05/13/2010 09:30
1005129-05	SS53-0-1	Soil	05/11/2010 09:50	05/13/2010 09:30
1005129-06	SB53-7-8	Soil	05/11/2010 09:55	05/13/2010 09:30
1005129-07	SS80-0-1	Soil	05/12/2010 07:55	05/13/2010 09:30
1005129-08	SB80-3-4	Soil	05/12/2010 08:00	05/13/2010 09:30
1005129-09	SS56-0-1	Soil	05/11/2010 11:25	05/13/2010 09:30
1005129-10	SB56-3-4	Soil	05/11/2010 11:30	05/13/2010 09:30
1005129-11	SS58-0-1	Soil	05/12/2010 10:15	05/13/2010 09:30
1005129-12	SS52-0-1	Soil	05/11/2010 15:15	05/13/2010 09:30
1005129-13	SS57-0-1	Soil	05/12/2010 12:05	05/13/2010 09:30
1005129-14	SS60-00-01	Soil	05/12/2010 15:55	05/14/2010 09:20
1005129-15	SS59-00-01	Soil	05/12/2010 16:40	05/14/2010 09:20
1005129-16	SB59-9-10	Soil	05/12/2010 16:55	05/14/2010 09:20
1005129-17	SS85-0-1	Soil	05/13/2010 07:40	05/14/2010 09:20
1005129-18	SS89-0-1	Soil	05/13/2010 08:25	05/14/2010 09:20
1005129-19	SB89-6.5-7.5	Soil	05/13/2010 08:45	05/14/2010 09:20
1005129-20	SS78-0-1	Soil	05/13/2010 09:30	05/14/2010 09:20

39CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field and analytical samples, reanalyses, blanks, spikes, duplicates, and laboratory control samples. The sample data package consists of the following:

A. Cover Page

B. Sample Data

C. Chain-of-Custody (CoC) Documentation

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005129

A. Cover Page -

Inorganic Analyses Data Package

The Cover Page includes laboratory information, the Case and SDG numbers, the client ID numbers in alphanumeric order showing the client ID numbers cross-referenced with Lab ID numbers, comments, and completion of the statement on the use of ICP background and interelement correction for the samples.

On separate pages, the laboratory will include any problems encountered; both technical and administrative, the corrective action taken, and the resolution. This information is included in the Inorganic Case Summary Narrative which follows the Cover Page.

SW846 - METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
SB53-7-8	1005129-06RE1
SB53-7-8	1005129-06
SB54-4-5	1005129-04RE1
SB54-4-5	1005129-04
SB55-00-2.5-3	1005129-02RE1
SB55-00-2.5-3	1005129-02
SB56-3-4	1005129-10RE1
SB56-3-4	1005129-10
SB59-9-10	1005129-16RE1
SB59-9-10	1005129-16
SB80-3-4	1005129-08RE1
SB80-3-4	1005129-08
SB89-6.5-7.5	1005129-19RE1
SB89-6.5-7.5	1005129-19
SS52-0-1	1005129-12RE1
SS52-0-1	1005129-12
SS53-0-1	1005129-05RE1
SS53-0-1	1005129-05
SS53-0-1D	0060115-DUP1
SS53-0-1D	0051808-DUP1
SS53-0-1S	0060115-MS1
SS53-0-1S	0051808-MS1
SS53-0-1SD	0060115-MSD1
SS53-0-1SD	0051808-MSD1
SS54-0-1	1005129-03RE1

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Susan W Bass

Date: 4-7-10 Title: Senior Chemist

SW846 - METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
SS54-0-1	1005129-03
SS55-00-01	1005129-01RE1
SS55-00-01	1005129-01
SS56-0-1	1005129-09RE1
SS56-0-1	1005129-09
SS57-0-1	1005129-13RE1
SS57-0-1	1005129-13
SS58-0-1	1005129-11RE1
SS58-0-1	1005129-11
SS59-00-01	1005129-15RE1
SS59-00-01	1005129-15
SS60-00-01	1005129-14RE1
SS60-00-01	1005129-14
SS78-0-1	1005129-20RE1
SS78-0-1	1005129-20
SS80-0-1	1005129-07RE1
SS80-0-1	1005129-07
SS85-0-1	1005129-17RE1
SS85-0-1	1005129-17
SS89-0-1	1005129-18RE1
SS89-0-1	1005129-18

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: Susan W Bass

Date: 6-7-10 Title: Senior Chemist

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE
SDG # 1005129

The indicated Sample Delivery Group (SDG) consisting of twenty (20) solid samples was received into the laboratory information management system (LIMS) on May 13 and 14, 2010 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 0.2 to 4.1°C. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were prepared and analyzed in accordance with SW846 methodology for the requested TAL metals and mercury.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV) and blanks (ICB & CCB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verification (PBS & LCSS) was found to be within acceptable ranges and field samples were prepared and analyzed within the specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spikes, CCN = 1005129-05 ID SS53-0-1S and SS53-0-1SD were inside control limits for the requested analytes.

The sample matrix duplicate, CCN = 1005129-05 ID SS53-0-1D was inside control limits for the requested analytes.

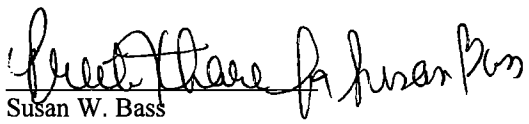
CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 1005129-05 ID SS53-0-1L was performed in accordance with requirements for ICP and mercury analysis.

The adjusted sample concentration was inside control limits for the requested analytes.

Control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.



Susan W. Bass
Senior Chemist
June 7, 2010

Organic Undecanted Dry Weight Worksheet

0051721

Procedure: 143/190

V. Gibson — Employee

2741 — ID No

Temp in: 108°C

Temp out: 105°C

Date Assigned: 5-18-10

Date/Time in: 5-18-10 1110

Date/Time out: 5-21-10 1530

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1005129-01	SS55-00-01	Sample	1.30	7.93	5.71
1005129-02	SB55-00-2.5-3	Sample	1.34	8.99	7.49
1005129-03	SS54-0-1	Sample	1.33	7.94	7.40
1005129-04	SB54-4-5	Sample	1.33	7.47	6.39
1005129-05	SS53-0-1	Sample	1.34	8.22	6.48
1005129-06	SB53-7-8	Sample	1.34	7.07	5.88
1005129-07	SS80-0-1	Sample	1.30	7.58	6.31
1005129-08	SB80-3-4	Sample	1.32	7.89	7.00
1005129-09	SS56-0-1	Sample	1.30	6.87	5.85
1005129-10	SB56-3-4	Sample	1.34	7.16	6.09
1005129-11	SS58-0-1	Sample	1.30	8.00	7.69
1005129-12	SS52-0-1	Sample	1.33	7.65	6.37
1005129-13	SS57-0-1	Sample	1.33	6.68	5.54
1005129-14	SS60-00-01	Sample	1.34	7.54	6.98
1005129-15	SS59-00-01	Sample	1.33	6.92	6.65
1005129-16	SB59-9-10	Sample	1.32	7.01	5.76
1005129-17	SS85-0-1	Sample	1.34	7.57	6.95
1005129-18	SS89-0-1	Sample	1.31	7.04	6.57
1005129-19	SB89-6.5-7.5	Sample	1.30	6.87	6.29
1005129-20	SS78-0-1	Sample	1.30	7.96	7.50

Entered into Element by: M Best — 5-24-10 Date

CompuChem

A Division Of

Liberty Analytical Corp.

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Method Detection Limit (MDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).

N: This flag indicates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

The extensions: D, S, SD, L. A, added to the end of the client ID represent as follows:

D: matrix duplicate
S: matrix spike
SD: matrix spike duplicate
L: serial dilution
A: post digestion spike

Method Codes:

P: ICP PLASMA
CV: MERCURY COLD VAPOR AA
CA: MIDI-DISTILLATION SPECTROPHOTOMETRIC
MS: MASS SPECTROMETRY
AS: SEMI-AUTOMATED SPECTROPHOTOMETRIC

B. Sample Data

1. Results
2. Quality Control Data
3. Quarterly Verification of Instrument Performance
4. Raw Data
5. Digestion and Distillation Logs

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005129

1. Results

Sample results shall be arranged in packets with the Inorganic Analysis Data Sheet (Form I - IN). These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers, and shall include all the samples in the SDG.

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB53-7-8

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-06RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5090			P
7440-36-0	Antimony	1.2	B		P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	5.2	B		P
7440-41-7	Beryllium	0.61	U		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	94.0	B		P
7440-47-3	Chromium	7.1			P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	0.85			P
7439-89-6	Iron	4710			P
7439-92-1	Lead	4.5			P
7439-95-4	Magnesium	168	B		P
7439-96-5	Manganese	5.2			P
7439-97-6	Mercury	0.042	U		CV
7440-02-0	Nickel	0.76			P
7440-09-7	Potassium	96.5	B		P
7782-49-2	Selenium	0.67			P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	47.5	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	13.0			P
7440-66-6	Zinc	3.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB54-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-04RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 82.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13500			P
7440-36-0	Antimony	0.99	B		P
7440-38-2	Arsenic	0.90	B		P
7440-39-3	Barium	14.6	B		P
7440-41-7	Beryllium	0.60	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	194	B		P
7440-47-3	Chromium	14.6			P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1			P
7439-89-6	Iron	6100			P
7439-92-1	Lead	7.0			P
7439-95-4	Magnesium	474	B		P
7439-96-5	Manganese	7.4			P
7439-97-6	Mercury	0.015	B		CV
7440-02-0	Nickel	2.2			P
7440-09-7	Potassium	304	B		P
7782-49-2	Selenium	0.49	B		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	66.7	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	18.4			P
7440-66-6	Zinc	5.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB55-00-2.5-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-02RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 80.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1290			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	1.5	B		P
7440-41-7	Beryllium	0.62	U		P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	273	B		P
7440-47-3	Chromium	2.4			P
7440-48-4	Cobalt	0.62	U		P
7440-50-8	Copper	0.21	B		P
7439-89-6	Iron	342			P
7439-92-1	Lead	2.0			P
7439-95-4	Magnesium	41.6	B		P
7439-96-5	Manganese	1.5			P
7439-97-6	Mercury	0.011	B		CV
7440-02-0	Nickel	0.47	B		P
7440-09-7	Potassium	622	U		P
7782-49-2	Selenium	0.62	U		P
7440-22-4	Silver	0.62	U		P
7440-23-5	Sodium	44.8	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	1.6	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB56-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-10RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 81.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12900			P
7440-36-0	Antimony	1.1	B		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	12.5	B		P
7440-41-7	Beryllium	0.61	U		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	390	B		P
7440-47-3	Chromium	12.7			P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	0.96			P
7439-89-6	Iron	3550			P
7439-92-1	Lead	8.3			P
7439-95-4	Magnesium	334	B		P
7439-96-5	Manganese	6.0			P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	1.6			P
7440-09-7	Potassium	164	B		P
7782-49-2	Selenium	0.31	B		P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	62.9	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	19.5			P
7440-66-6	Zinc	3.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB59-9-10

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-16RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7570			P
7440-36-0	Antimony	0.92	B		P
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	8.5	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	0.64	U		P
7440-70-2	Calcium	141	B		P
7440-47-3	Chromium	14.1			P
7440-48-4	Cobalt	0.64	U		P
7440-50-8	Copper	1.9			P
7439-89-6	Iron	8280			P
7439-92-1	Lead	6.9			P
7439-95-4	Magnesium	457	B		P
7439-96-5	Manganese	8.5			P
7439-97-6	Mercury	0.042	U		CV
7440-02-0	Nickel	1.3			P
7440-09-7	Potassium	575	B		P
7782-49-2	Selenium	0.70			P
7440-22-4	Silver	0.64	U		P
7440-23-5	Sodium	73.8	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	24.9			P
7440-66-6	Zinc	5.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB80-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-08RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1990			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	2.0	B		P
7440-41-7	Beryllium	0.57	U		P
7440-43-9	Cadmium	0.57	U		P
7440-70-2	Calcium	104	B		P
7440-47-3	Chromium	2.7			P
7440-48-4	Cobalt	0.57	U		P
7440-50-8	Copper	0.75			P
7439-89-6	Iron	1320			P
7439-92-1	Lead	1.9			P
7439-95-4	Magnesium	46.2	B		P
7439-96-5	Manganese	1.4			P
7439-97-6	Mercury	0.038	U		CV
7440-02-0	Nickel	0.60			P
7440-09-7	Potassium	567	U		P
7782-49-2	Selenium	0.38	B		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium	47.7	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	3.5			P
7440-66-6	Zinc	2.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB89-6.5-7.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-19RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 89.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5720			P
7440-36-0	Antimony	1.1			P
7440-38-2	Arsenic	5.6			P
7440-39-3	Barium	11.5	B		P
7440-41-7	Beryllium	0.06	B		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	483	B		P
7440-47-3	Chromium	8.6			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	1.1			P
7439-89-6	Iron	3030			P
7439-92-1	Lead	5.4			P
7439-95-4	Magnesium	262	B		P
7439-96-5	Manganese	4.5			P
7439-97-6	Mercury	0.037	U		CV
7440-02-0	Nickel	0.98			P
7440-09-7	Potassium	299	B		P
7782-49-2	Selenium	0.29	B		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	52.1	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	14.5			P
7440-66-6	Zinc	2.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS52-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-12RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	501			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	11.8	B		P
7440-41-7	Beryllium	0.60	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	315	B		P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	0.73			P
7439-89-6	Iron	213			P
7439-92-1	Lead	1.9			P
7439-95-4	Magnesium	43.0	B		P
7439-96-5	Manganese	2.1			P
7439-97-6	Mercury	0.041	U		CV
7440-02-0	Nickel	0.34	B		P
7440-09-7	Potassium	603	U		P
7782-49-2	Selenium	0.39	B		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	75.1	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	1.0	B		P
7440-66-6	Zinc	1.1	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS53-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-05RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 74.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1900			P
7440-36-0	Antimony	1.4			P
7440-38-2	Arsenic	1.3	U		P
7440-39-3	Barium	3.8	B		P
7440-41-7	Beryllium	0.67	U		P
7440-43-9	Cadmium	0.67	U		P
7440-70-2	Calcium	111	B		P
7440-47-3	Chromium	1.8			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	0.58	B		P
7439-89-6	Iron	996			P
7439-92-1	Lead	3.5			P
7439-95-4	Magnesium	65.8	B		P
7439-96-5	Manganese	3.5			P
7439-97-6	Mercury	0.021	B		CV
7440-02-0	Nickel	0.59	B		P
7440-09-7	Potassium	669	U		P
7782-49-2	Selenium	0.67	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	63.4	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	3.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS54-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-03RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7050			P
7440-36-0	Antimony	0.88	B		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	8.8	B		P
7440-41-7	Beryllium	0.06	B		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	252	B		P
7440-47-3	Chromium	6.4			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	2040			P
7439-92-1	Lead	5.3			P
7439-95-4	Magnesium	172	B		P
7439-96-5	Manganese	5.8			P
7439-97-6	Mercury	0.035	B		CV
7440-02-0	Nickel	1.3			P
7440-09-7	Potassium	35.9	B		P
7782-49-2	Selenium	0.32	B		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	57.7	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	8.6			P
7440-66-6	Zinc	6.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS55-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-01RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 66.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	442			P
7440-36-0	Antimony	1.7			P
7440-38-2	Arsenic	1.5	U		P
7440-39-3	Barium	5.1	B		P
7440-41-7	Beryllium	0.75	U		P
7440-43-9	Cadmium	0.75	U		P
7440-70-2	Calcium	3960			P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.75	U		P
7440-50-8	Copper	12.8			P
7439-89-6	Iron	439			P
7439-92-1	Lead	4.9			P
7439-95-4	Magnesium	64.0	B		P
7439-96-5	Manganese	4.9			P
7439-97-6	Mercury	0.024	B		CV
7440-02-0	Nickel	0.75	B		P
7440-09-7	Potassium	752	U		P
7782-49-2	Selenium	0.53	B		P
7440-22-4	Silver	0.75	U		P
7440-23-5	Sodium	75.1	B		P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.2	B		P
7440-66-6	Zinc	7.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS56-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-09RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7700			P
7440-36-0	Antimony	1.4			P
7440-38-2	Arsenic	0.56	B		P
7440-39-3	Barium	13.4	B		P
7440-41-7	Beryllium	0.61	U		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	1840			P
7440-47-3	Chromium	6.1			P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	2.4			P
7439-89-6	Iron	5990			P
7439-92-1	Lead	7.1			P
7439-95-4	Magnesium	161	B		P
7439-96-5	Manganese	5.4			P
7439-97-6	Mercury	0.041			CV
7440-02-0	Nickel	1.3			P
7440-09-7	Potassium	612	U		P
7782-49-2	Selenium	0.70			P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	55.6	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	8.5			P
7440-66-6	Zinc	3.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS57-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-13RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 78.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	733			P
7440-36-0	Antimony	1.2	B		P
7440-38-2	Arsenic	1.3	U		P
7440-39-3	Barium	1.5	B		P
7440-41-7	Beryllium	0.63	U		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	225	B		P
7440-47-3	Chromium	1.5			P
7440-48-4	Cobalt	0.63	U		P
7440-50-8	Copper	0.72			P
7439-89-6	Iron	273			P
7439-92-1	Lead	2.4			P
7439-95-4	Magnesium	30.7	B		P
7439-96-5	Manganese	2.7			P
7439-97-6	Mercury	0.010	B		CV
7440-02-0	Nickel	0.38	B		P
7440-09-7	Potassium	629	U		P
7782-49-2	Selenium	0.44	B		P
7440-22-4	Silver	0.63	U		P
7440-23-5	Sodium	61.2	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	1.7	B		P
7440-66-6	Zinc	1.5	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS58-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-11RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 95.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	367			P
7440-36-0	Antimony	1.1			P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	1.7	B		P
7440-41-7	Beryllium	0.52	U		P
7440-43-9	Cadmium	0.52	U		P
7440-70-2	Calcium	72.0	B		P
7440-47-3	Chromium	0.83	B		P
7440-48-4	Cobalt	0.52	U		P
7440-50-8	Copper	0.09	B		P
7439-89-6	Iron	273			P
7439-92-1	Lead	0.91			P
7439-95-4	Magnesium	14.2	B		P
7439-96-5	Manganese	1.8			P
7439-97-6	Mercury	0.035	U		CV
7440-02-0	Nickel	0.19	B		P
7440-09-7	Potassium	524	U		P
7782-49-2	Selenium	0.52	U		P
7440-22-4	Silver	0.52	U		P
7440-23-5	Sodium	47.7	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	0.68	B		P
7440-66-6	Zinc	0.90	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS59-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-15RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1170			P
7440-36-0	Antimony	0.97	B		P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	8.0	B		P
7440-41-7	Beryllium	0.51	U		P
7440-43-9	Cadmium	0.51	U		P
7440-70-2	Calcium	227	B		P
7440-47-3	Chromium	1.7			P
7440-48-4	Cobalt	0.51	U		P
7440-50-8	Copper	0.49	B		P
7439-89-6	Iron	903			P
7439-92-1	Lead	3.8			P
7439-95-4	Magnesium	66.5	B		P
7439-96-5	Manganese	7.4			P
7439-97-6	Mercury	0.035	U		CV
7440-02-0	Nickel	0.43	B		P
7440-09-7	Potassium	510	U		P
7782-49-2	Selenium	0.51	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	58.4	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	2.7			P
7440-66-6	Zinc	1.8	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS60-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-14RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1280			P
7440-36-0	Antimony	1.1	B		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	4.8	B		P
7440-41-7	Beryllium	0.54	U		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	205	B		P
7440-47-3	Chromium	1.5			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	0.78			P
7439-89-6	Iron	327			P
7439-92-1	Lead	2.8			P
7439-95-4	Magnesium	45.5	B		P
7439-96-5	Manganese	4.3			P
7439-97-6	Mercury	0.009	B		CV
7440-02-0	Nickel	0.53	B		P
7440-09-7	Potassium	544	U		P
7782-49-2	Selenium	0.38	B		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	40.5	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	2.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS78-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-20RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9180			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	1.6			P
7440-39-3	Barium	30.6			P
7440-41-7	Beryllium	0.04	B		P
7440-43-9	Cadmium	0.53	U		P
7440-70-2	Calcium	1460			P
7440-47-3	Chromium	11.9			P
7440-48-4	Cobalt	0.53	U		P
7440-50-8	Copper	1.3			P
7439-89-6	Iron	5450			P
7439-92-1	Lead	15.4			P
7439-95-4	Magnesium	369	B		P
7439-96-5	Manganese	9.1			P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	2.1			P
7440-09-7	Potassium	248	B		P
7782-49-2	Selenium	0.43	B		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	83.3	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	11.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS80-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-07RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1980			P
7440-36-0	Antimony	1.1	B		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	4.7	B		P
7440-41-7	Beryllium	0.61	U		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	1500			P
7440-47-3	Chromium	3.7			P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	809			P
7439-92-1	Lead	4.6			P
7439-95-4	Magnesium	84.6	B		P
7439-96-5	Manganese	8.4			P
7439-97-6	Mercury	0.017	B		CV
7440-02-0	Nickel	0.92			P
7440-09-7	Potassium	608	U		P
7782-49-2	Selenium	0.61	U		P
7440-22-4	Silver	0.05	B		P
7440-23-5	Sodium	64.9	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	2.9			P
7440-66-6	Zinc	3.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS85-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-17RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6030			P
7440-36-0	Antimony	1.2			P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	6.8	B		P
7440-41-7	Beryllium	0.04	B		P
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium	135	B		P
7440-47-3	Chromium	5.2			P
7440-48-4	Cobalt	0.56	U		P
7440-50-8	Copper	0.75			P
7439-89-6	Iron	819			P
7439-92-1	Lead	3.9			P
7439-95-4	Magnesium	173	B		P
7439-96-5	Manganese	3.1			P
7439-97-6	Mercury	0.025	B		CV
7440-02-0	Nickel	1.1			P
7440-09-7	Potassium	10.8	B		P
7782-49-2	Selenium	0.29	B		P
7440-22-4	Silver	0.56	U		P
7440-23-5	Sodium	53.2	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	7.7			P
7440-66-6	Zinc	2.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS89-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-18RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4250			P
7440-36-0	Antimony	0.97	B		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	7.7	B		P
7440-41-7	Beryllium	0.54	U		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	263	B		P
7440-47-3	Chromium	4.4			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	0.97			P
7439-89-6	Iron	1970			P
7439-92-1	Lead	3.8			P
7439-95-4	Magnesium	130	B		P
7439-96-5	Manganese	6.6			P
7439-97-6	Mercury	0.015	B		CV
7440-02-0	Nickel	1.5			P
7440-09-7	Potassium	545	U		P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	45.0	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	5.9			P
7440-66-6	Zinc	3.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

2. Quality Control Data

a. Initial and Continuing Calibration Verification
[Form II (Part 1) - IN]

b. CRDL Standard for AA (if applicable) and ICP
[Form II (Part 2) - IN]

c. Blanks
[Form III - IN]

d. ICP Interference Check Sample
[Form IV - IN]

e. Spike Sample Recovery
[Form V (Part 1) - IN]

f. Post Digest Spike Sample Recovery
[Form V (Part 2) - IN]

g. Duplicates
[Form VI - IN]

h. Laboratory Control Sample
[Form VII - IN]

i. Standard Addition Results (if applicable)
[Form VIII - IN]

j. ICP Serial Dilutions
[Form IX - IN]

k. Preparation Log
[Form XIII - IN]

l. Analysis Run Log
[Form XIV - IN]

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2521.0	2405.26	95	50000.0	47110.82	94	47386.36	95	P
Antimony	994.0	1008.02	101	1000.0	1011.93	101	1014.19	101	P
Arsenic	999.0	1010.14	101	1000.0	1012.26	101	1031.89	103	P
Barium	497.0	486.86	98	1000.0	939.70	94	921.73	92	P
Beryllium	495.0	521.73	105	1000.0	1044.40	104	1049.18	105	P
Cadmium	496.0	499.94	101	1000.0	981.70	98	984.26	98	P
Calcium	10026.0	9781.32	98	50000.0	48807.18	98	49023.62	98	P
Chromium	490.0	494.70	101	1000.0	991.21	99	981.29	98	P
Cobalt	499.0	526.86	106	1000.0	1024.03	102	1033.19	103	P
Copper	492.0	518.99	105	1000.0	1010.93	101	996.92	100	P
Iron	5082.0	5108.83	101	25000.0	25161.43	101	25419.14	102	P
Lead	1002.0	999.77	100	1000.0	984.42	98	986.90	99	P
Magnesium	6074.0	5959.21	98	50000.0	50014.70	100	50576.18	101	P
Manganese	499.0	512.37	103	1000.0	1019.75	102	1020.56	102	P
Mercury	4.0	4.00	100	5.0	5.16	103	5.38	108	CV
Nickel	503.0	503.12	100	1000.0	990.32	99	988.73	99	P
Potassium	10021.0	10843.23	108	50000.0	51568.54	103	52529.32	105	P
Selenium	1029.0	997.75	97	1000.0	994.02	99	1013.06	101	P
Silver	501.0	515.86	103	100.0	101.89	102	99.96	100	P
Sodium	10097.0	9659.41	96	50000.0	49859.02	100	50250.75	101	P
Thallium	1028.0	1036.53	101	1000.0	997.89	100	1016.15	102	P
Vanadium	501.0	506.06	101	1000.0	1012.37	101	1004.67	100	P
Zinc	1025.0	976.59	95	1100.0	1067.91	97	1080.88	98	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				50000.0	47307.47	95	46502.32	93	P
Antimony				1000.0	1020.56	102	1004.88	100	P
Arsenic				1000.0	1041.17	104	1027.59	103	P
Barium				1000.0	936.50	94	912.98	91	P
Beryllium				1000.0	1038.58	104	1035.32	104	P
Cadmium				1000.0	975.50	98	968.85	97	P
Calcium				50000.0	48010.47	96	48057.94	96	P
Chromium				1000.0	964.92	96	967.70	97	P
Cobalt				1000.0	1022.94	102	1010.04	101	P
Copper				1000.0	1003.09	100	1006.76	101	P
Iron				25000.0	25144.12	101	24998.35	100	P
Lead				1000.0	980.96	98	973.72	97	P
Magnesium				50000.0	50277.36	101	49833.84	100	P
Manganese				1000.0	1010.37	101	1002.05	100	P
Mercury				5.0	5.07	101	5.37	107	CV
Nickel				1000.0	984.45	98	976.74	98	P
Potassium				50000.0	53417.13	107	51373.79	103	P
Selenium				1000.0	1022.94	102	1004.02	100	P
Silver				100.0	99.40	99	100.43	100	P
Sodium				50000.0	50409.26	101	49195.91	98	P
Thallium				1000.0	1022.13	102	1008.06	101	P
Vanadium				1000.0	984.33	98	987.80	99	P
Zinc				1100.0	1058.77	96	1057.99	96	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	46331.57	93	46335.64	93	P
Antimony				1000.0	1018.83	102	1018.00	102	P
Arsenic				1000.0	1046.35	105	1044.14	104	P
Barium				1000.0	902.76	90	910.46	91	P
Beryllium				1000.0	1064.49	106	1062.77	106	P
Cadmium				1000.0	1005.88	101	996.29	100	P
Calcium				50000.0	49929.80	100	49613.46	99	P
Chromium				1000.0	1004.69	100	996.71	100	P
Cobalt				1000.0	1045.50	105	1033.49	103	P
Copper				1000.0	1016.91	102	1017.37	102	P
Iron				25000.0	25879.49	104	25546.23	102	P
Lead				1000.0	998.92	100	995.11	100	P
Magnesium				50000.0	51119.91	102	50496.33	101	P
Manganese				1000.0	1037.70	104	1030.86	103	P
Nickel				1000.0	1007.32	101	997.87	100	P
Potassium				50000.0	50322.94	101	50059.07	100	P
Selenium				1000.0	1016.58	102	1019.91	102	P
Silver				100.0	103.36	103	102.89	103	P
Sodium				50000.0	48808.27	98	48423.72	97	P
Thallium				1000.0	1023.82	102	1018.02	102	P
Vanadium				1000.0	1009.49	101	1001.25	100	P
Zinc				1100.0	1127.72	103	1103.73	100	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

AA CRDL Standard Source: HP0916320

ICP CRDL Standard Source: HP1004012

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum				200.0	172.39	86.2		
Antimony				10.0	9.50	95.0		
Arsenic				10.0	9.66	96.6		
Barium				200.0	185.42	92.7		
Beryllium				5.0	4.90	98.0		
Cadmium				5.0	4.52	90.4		
Calcium				5000.0	5029.02	100.6		
Chromium				10.0	10.15	101.5		
Cobalt				5.0	3.22	64.4		
Copper				5.0	4.42	88.4		
Iron				100.0	63.78	63.8		
Lead				3.0	3.38	112.7		
Magnesium				5000.0	4919.29	98.4		
Manganese				10.0	10.34	103.4		
Mercury	0.2	0.18	90.0					
Nickel				5.0	6.18	123.6		
Potassium				5000.0	4610.53	92.2		
Selenium				5.0	5.72	114.4		
Silver				5.0	3.10	62.0		
Sodium				5000.0	4588.88	91.8		
Thallium				10.0	11.81	118.1		
Vanadium				20.0	19.64	98.2		
Zinc				20.0	20.21	101.0		

Control Limits: no limits have been established by EPA at this time

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	200.0	U	200.0	U	200.0	U	200.0	U	1.156	B	P
Antimony	10.0	U	10.0	U	2.8	B	10.0	U	0.347	B	P
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Barium	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	-0.073	B	P
Calcium	371.7	B	370.6	B	387.0	B	390.7	B	44.683	B	P
Chromium	10.0	U	10.0	U	1.3	B	10.0	U	1.000	U	P
Cobalt	5.0	U	-2.3	B	5.0	U	-2.5	B	-0.337	B	P
Copper	5.0	U	5.0	U	5.0	U	-1.0	B	0.129	B	P
Iron	100.0	U	100.0	U	19.6	B	100.0	U	10.000	U	P
Lead	3.0	U	3.0	U	3.0	U	3.0	U	0.248	B	P
Magnesium	5000.0	U	5000.0	U	16.8	B	19.6	B	1.562	B	P
Manganese	10.0	U	10.0	U	0.3	B	0.3	B	0.064	B	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.033	U	CV
Nickel	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Potassium	-1440.4	B	-1441.3	B	-1440.1	B	-1429.9	B	-142.301	B	P
Selenium	5.0	U	5.0	U	5.0	U	2.4	B	0.500	U	P
Silver	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Sodium	5000.0	U	5000.0	U	5000.0	U	5000.0	U	27.909	B	P
Thallium	4.3	B	3.6	B	10.0	U	6.1	B	1.000	U	P
Vanadium	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Zinc	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	200.0	U	-31.8	B			P
Antimony			10.0	U	10.0	U	10.0	U			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			200.0	U	200.0	U	200.0	U			P
Beryllium			5.0	U	5.0	U	-0.8	B			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			381.1	B	381.3	B	373.6	B			P
Chromium			10.0	U	10.0	U	10.0	U			P
Cobalt			-3.0	B	-2.9	B	-2.9	B			P
Copper			-1.3	B	-1.3	B	-1.5	B			P
Iron			100.0	U	100.0	U	100.0	U			P
Lead			3.0	U	3.0	U	3.0	U			P
Magnesium			10.3	B	10.8	B	5000.0	U			P
Manganese			0.2	B	0.2	B	10.0	U			P
Mercury			0.200	U							CV
Nickel			5.0	U	5.0	U	5.0	U			P
Potassium			-1430.7	B	-1427.7	B	-1443.1	B			P
Selenium			5.0	U	2.2	B	5.0	U			P
Silver			5.0	U	5.0	U	5.0	U			P
Sodium			5000.0	U	5000.0	U	5000.0	U			P
Thallium			10.0	U	4.1	B	10.0	U			P
Vanadium			20.0	U	20.0	U	20.0	U			P
Zinc			20.0	U	20.0	U	20.0	U			P

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	244100	241100	249000	247000	102.4			
Antimony	0	589	1.8	616	104.6			
Arsenic	0	101	-1.9	104	103.0			
Barium	0	495	2.5	489	98.8			
Beryllium	0	475	0.94	512	107.8			
Cadmium	0	940	3.2	959	102.0			
Calcium	234900	231100	246000	252000	109.0			
Chromium	43	511	43.3	525	102.7			
Cobalt	0	461	-2.2	502	108.9			
Copper	23	548	23.3	546	99.6			
Iron	95600	94800	97900	99600	105.1			
Lead	10	61	7.7	56.2	92.1			
Magnesium	247500	251100	265000	265000	105.5			
Manganese	19	502	19.3	525	104.6			
Nickel	21	984	21.9	999	101.5			
Potassium	0	0	-1440	-1420				
Selenium	0	53	-2.6	50.1	94.5			
Silver	0	206	0.010	207	100.5			
Sodium	0	0	910	885				
Thallium	0	103	8.4	104	101.0			
Vanadium	0	494	-0.81	500	101.2			
Zinc	28	1028	30.9	952	92.6			

SW846 - METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SS53-0-1S

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 74.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	53.4967		1.4127		66.93	78		P
Arsenic	75 - 125	5.1668		1.3387	U	5.35	97		P
Barium	75 - 125	251.9019		3.7927	B	267.74	93		P
Beryllium	75 - 125	6.8011		0.6693	U	6.69	102		P
Cadmium	75 - 125	6.3529		0.6693	U	6.69	95		P
Chromium	75 - 125	29.0922		1.8204		26.77	102		P
Cobalt	75 - 125	67.7991		0.6693	U	66.93	101		P
Copper	75 - 125	34.7637		0.5834	B	33.47	102		P
Lead	75 - 125	6.7307		3.4545		2.68	122		P
Manganese	75 - 125	71.5033		3.4539		66.93	102		P
Mercury	75 - 125	0.2834		0.0208	B	0.22	119.4		CV
Nickel	75 - 125	65.1036		0.5898	B	66.93	96		P
Selenium	75 - 125	1.2325		0.6693	U	1.34	92		P
Silver	75 - 125	6.3997		0.6693	U	6.69	96		P
Thallium	75 - 125	5.5837		1.3387	U	6.69	83		P
Vanadium	75 - 125	70.3677		2.3831	B	66.93	102		P
Zinc	75 - 125	67.3069		2.9538		66.93	96		P

Comments:

SW846 - METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SS53-0-1SD

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 74.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	52.3123		1.4127		66.93	76		P
Arsenic	75 - 125	4.5955		1.3387	U	5.35	86		P
Barium	75 - 125	250.9568		3.7927	B	267.74	92		P
Beryllium	75 - 125	6.5877		0.6693	U	6.69	98		P
Cadmium	75 - 125	6.0785		0.6693	U	6.69	91		P
Chromium	75 - 125	27.2670		1.8204		26.77	95		P
Cobalt	75 - 125	64.5271		0.6693	U	66.93	96		P
Copper	75 - 125	34.0281		0.5834	B	33.47	100		P
Lead	75 - 125	6.4288		3.4545		2.68	111		P
Manganese	75 - 125	68.2993		3.4539		66.93	97		P
Mercury	75 - 125	0.2789		0.0208	B	0.22	117.3		CV
Nickel	75 - 125	62.7107		0.5898	B	66.93	93		P
Selenium	75 - 125	1.3754		0.6693	U	1.34	103		P
Silver	75 - 125	6.2307		0.6693	U	6.69	93		P
Thallium	75 - 125	5.9069		1.3387	U	6.69	88		P
Vanadium	75 - 125	68.0378		2.3831	B	66.93	98		P
Zinc	75 - 125	63.3084		2.9538		66.93	90		P

Comments:

SW846 - METALS

6

DUPLICATES

SAMPLE NO.

SS53-0-1D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 74.7 % Solids for Duplicate: 74.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		1899.1130		1787.3110		6.1		P
Antimony		1.4127		1.0750	B	27.1		P
Arsenic		1.3387	U	1.3387	U			P
Barium		3.7927	B	5.0604	B	28.6		P
Beryllium		0.6693	U	0.6693	U			P
Cadmium		0.6693	U	0.6693	U			P
Calcium		110.6020	B	101.0477	B	9.0		P
Chromium	1.3	1.8204		1.7398		4.5		P
Cobalt		0.6693	U	0.6693	U			P
Copper	0.7	0.5834	B	0.7858		29.6		P
Iron		995.7227		950.1199		4.7		P
Lead		3.4545		3.8555		11.0		P
Magnesium		65.7512	B	63.0781	B	4.1		P
Manganese	1.3	3.4539		2.8752		18.3		P
Mercury		0.0208	B	0.0250	B	18.3		CV
Nickel		0.5898	B	0.4567	B	25.4		P
Potassium		669.3441	U	669.3441	U			P
Selenium		0.6693	U	0.4452	B	200.0		P
Silver		0.6693	U	0.6693	U			P
Sodium		63.4093	B	60.3413	B	5.0		P
Thallium		1.3387	U	1.3387	U			P
Vanadium		2.3831	B	2.2991	B	3.6		P
Zinc	2.7	2.9538		3.1055		5.0		P

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Solid LCS Source: ERA-540

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				7590.0	6837.04		4390.0	10800.0	90
Antimony				77.5	45.57		0.1	173.0	59
Arsenic				80.9	72.35		64.5	97.3	89
Barium				156.0	131.66		128.0	184.0	84
Beryllium				143.0	133.99		117.0	169.0	94
Cadmium				233.0	207.07		188.0	277.0	89
Calcium				4320.0	3932.24		3420.0	5220.0	91
Chromium				60.8	55.70		47.7	73.8	92
Cobalt				68.6	64.62		56.1	81.1	94
Copper				131.0	134.92		108.0	154.0	103
Iron				14400.0	11794.53		7420.0	21400.0	82
Lead				76.8	66.91		61.9	91.8	87
Magnesium				2220.0	1918.98		1710.0	2730.0	86
Manganese				304.0	281.53		243.0	365.0	93
Mercury				3.6	3.6		2.5	4.8	100
Nickel				49.6	45.01		40.4	58.8	91
Potassium				2380.0	2433.77		1700.0	3060.0	102
Selenium				82.9	69.00		62.6	103.0	83
Silver				80.0	78.17		49.0	111.0	98
Sodium				456.0	396.20	B	254.0	658.0	87
Thallium				158.0	142.10		119.0	197.0	90
Vanadium				72.4	63.77		51.7	93.0	88
Zinc				116.0	105.02		90.5	141.0	91

9

ICP SERIAL DILUTIONS

SAMPLE NO.

SS53-0-1L

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	14186.37		14255.58		0.5		P
Antimony	10.55		50.00	U	100.0		P
Arsenic	10.00	U	50.00	U			P
Barium	28.33	B	1000.00	U	100.0		P
Beryllium	5.00	U	25.00	U			P
Cadmium	5.00	U	25.00	U			P
Calcium	826.20	B	2350.74	B	184.5		P
Chromium	13.60		15.99	B	17.6		P
Cobalt	5.00	U	25.00	U			P
Copper	4.36	B	25.00	U	100.0		P
Iron	7438.05		7786.25		4.7		P
Lead	25.81		31.29		21.2		P
Magnesium	491.16	B	528.21	B	7.5		P
Manganese	25.80		27.10	B	5.0		P
Mercury	0.09	B	1.00	U	100.0		CV
Nickel	4.41	B	25.00	U	100.0		P
Potassium	5000.00	U	25000.00	U			P
Selenium	5.00	U	12.17	B	100.0		P
Silver	5.00	U	25.00	U			P
Sodium	473.67	B	25000.00	U	100.0		P
Thallium	10.00	U	50.00	U			P
Vanadium	17.80	B	18.16	B	2.0		P
Zinc	22.06		28.02	B	27.0		P

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	6/1/2010	1.00	100.0
PBS	6/1/2010	1.00	100.0
SB53-7-8	6/1/2010	1.04	100.0
SB54-4-5	6/1/2010	1.01	100.0
SB55-00-2.5-3	6/1/2010	1.00	100.0
SB56-3-4	6/1/2010	1.01	100.0
SB59-9-10	6/1/2010	1.00	100.0
SB80-3-4	6/1/2010	1.02	100.0
SB89-6.5-7.5	6/1/2010	1.03	100.0
SS52-0-1	6/1/2010	1.04	100.0
SS53-0-1	6/1/2010	1.00	100.0
SS53-0-1D	6/1/2010	1.00	100.0
SS53-0-1S	6/1/2010	1.00	100.0
SS53-0-1SD	6/1/2010	1.00	100.0
SS54-0-1	6/1/2010	1.01	100.0
SS55-00-01	6/1/2010	1.00	100.0
SS56-0-1	6/1/2010	1.00	100.0
SS57-0-1	6/1/2010	1.01	100.0
SS58-0-1	6/1/2010	1.00	100.0
SS59-00-01	6/1/2010	1.03	100.0
SS60-00-01	6/1/2010	1.01	100.0
SS78-0-1	6/1/2010	1.02	100.0
SS80-0-1	6/1/2010	1.03	100.0
SS85-0-1	6/1/2010	1.00	100.0
SS89-0-1	6/1/2010	1.00	100.0

SW846 - METALS

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	5/19/2010	0.20	100.0
PBS	5/19/2010	0.60	100.0
SB53-7-8	5/19/2010	0.66	100.0
SB54-4-5	5/19/2010	0.65	100.0
SB55-00-2.5-3	5/19/2010	0.66	100.0
SB56-3-4	5/19/2010	0.68	100.0
SB59-9-10	5/19/2010	0.61	100.0
SB80-3-4	5/19/2010	0.60	100.0
SB89-6.5-7.5	5/19/2010	0.61	100.0
SS52-0-1	5/19/2010	0.68	100.0
SS53-0-1	5/19/2010	0.60	100.0
SS53-0-1D	5/19/2010	0.60	100.0
SS53-0-1S	5/19/2010	0.60	100.0
SS53-0-1SD	5/19/2010	0.60	100.0
SS54-0-1	5/19/2010	0.63	100.0
SS55-00-01	5/19/2010	0.60	100.0
SS56-0-1	5/19/2010	0.61	100.0
SS57-0-1	5/19/2010	0.65	100.0
SS58-0-1	5/19/2010	0.63	100.0
SS59-00-01	5/19/2010	0.62	100.0
SS60-00-01	5/19/2010	0.62	100.0
SS78-0-1	5/19/2010	0.61	100.0
SS80-0-1	5/19/2010	0.67	100.0
SS85-0-1	5/19/2010	0.65	100.0
SS89-0-1	5/19/2010	0.62	100.0

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID Number: P4 Method: P

Start Date: 6/2/2010 End Date: 6/2/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.00	1115		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
S	1.00	1123							X		X		X		X				X		X	X		X		X				
S	1.00	1130		X						X						X				X			X							
S	1.00	1135				X	X	X				X		X			X								X					
S	1.00	1142			X																									
ICV	1.00	1147		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ICB	1.00	1154		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	1202																												
ICSA	1.00	1209		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ICSAB	1.00	1216		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCV	1.00	1223		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB	1.00	1230		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
LRS	1.00	1240		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	1247																												
ZZZZZZ	1.00	1254																												
ZZZZZZ	1.00	1301																												
ZZZZZZ	1.00	1309																												
ZZZZZZ	1.00	1316																												
ZZZZZZ	1.00	1323																												
ZZZZZZ	1.00	1330																												
ZZZZZZ	1.00	1337																												
ZZZZZZ	1.00	1344																												
CCV	1.00	1351		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB	1.00	1359		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	1406																												
ZZZZZZ	1.00	1413																												
ZZZZZZ	1.00	1420																												
ZZZZZZ	1.00	1427																												
ZZZZZZ	1.00	1434																												
ZZZZZZ	1.00	1441																												
ZZZZZZ	1.00	1449																												
ZZZZZZ	1.00	1456																												
PBS	1.00	1504		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
LCSS	1.00	1511		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCV	1.00	1518		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB	1.00	1525		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
SS53-0-1	1.00	1532		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
SS53-0-1D	1.00	1539		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID Number: P4 Method: P

Start Date: 6/2/2010 End Date: 6/2/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
SS53-0-1S	1.00	1547			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
SS53-0-1SD	1.00	1554			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
SS53-0-1L	5.00	1601		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS53-0-1A	1.00	1608																												
SS55-00-01	1.00	1615		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB55-00-2.5-3	1.00	1622		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS54-0-1	1.00	1629		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB54-4-5	1.00	1636		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.00	1644		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1651		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB53-7-8	1.00	1658		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS80-0-1	1.00	1705		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB80-3-4	1.00	1712		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS56-0-1	1.00	1719		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB56-3-4	1.00	1726		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS58-0-1	1.00	1734		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS52-0-1	1.00	1741		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS57-0-1	1.00	1748		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS60-00-01	1.00	1755		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS59-00-01	1.00	1802		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.00	1809		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1816		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB59-9-10	1.00	1824		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS85-0-1	1.00	1831		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS89-0-1	1.00	1838		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB89-6.5-7.5	1.00	1845		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS78-0-1	1.00	1852		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1859																												
ZZZZZZ	1.00	1906																												
ZZZZZZ	1.00	1914																												
ZZZZZZ	1.00	1921																												
ZZZZZZ	1.00	1928																												
CCV	1.00	1935		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1942		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID Number: V4 Method: CV

Start Date: 5/20/2010 End Date: 5/20/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.00	1057																X												
S0.2	1.00	1059																X												
S0.5	1.00	1101																X												
S1	1.00	1103																X												
S5	1.00	1105																X												
S10	1.00	1107																X												
ICV	1.00	1109																X												
ICB	1.00	1111																X												
CRA	1.00	1113																X												
CCV	1.00	1115																X												
CCB	1.00	1117																X												
PBS	1.00	1119																X												
LCSS	1.00	1121																X												
SS53-0-1	1.00	1123																X												
SS53-0-1D	1.00	1125																X												
SS53-0-1S	1.00	1126																X												
SS53-0-1SD	1.00	1128																X												
SS53-0-1L	5.00	1131																X												
SS55-00-01	1.00	1133																X												
SB55-00-2.5-3	1.00	1134																X												
SS54-0-1	1.00	1136																X												
CCV	1.00	1138																X												
CCB	1.00	1140																X												
SB54-4-5	1.00	1142																X												
SB53-7-8	1.00	1144																X												
SS80-0-1	1.00	1146																X												
SB80-3-4	1.00	1148																X												
SS56-0-1	1.00	1150																X												
SB56-3-4	1.00	1152																X												
SS58-0-1	1.00	1154																X												
SS52-0-1	1.00	1156																X												
SS57-0-1	1.00	1158																X												
SS60-00-01	1.00	1200																X												
CCV	1.00	1202																X												
CCB	1.00	1204																X												
SS59-00-01	1.00	1206																X												
SB59-9-10	1.00	1208																X												
SS85-0-1	1.00	1210																X												

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID Number: V4 Method: CV

Start Date: 5/20/2010 End Date: 5/20/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SS89-0-1	1.00	1212																X								
SB89-6.5-7.5	1.00	1214																X								
SS78-0-1	1.00	1216																X								
ZZZZZZ	1.00	1218																								
ZZZZZZ	1.00	1220																								
ZZZZZZ	1.00	1222																								
ZZZZZZ	1.00	1224																								
CCV	1.00	1226																X								
CCB	1.00	1228																X								

3. Quarterly Verification of Instrument Performance

a. Instrument Detection Limits (Quarterly)
[Form X - IN]

b. ICP Interelement Correction Factors (Annually)
[Form XI (Part 1) - IN]

c. ICP Interelement Correction Factors (Annually)
[Form XI (Part 2) - IN]

d. ICP Linear Ranges (Quarterly)
[Form XII - IN]

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

ICP ID Number: Date: 4/10/2010

Flame AA ID Number: V4

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRQL ug/L	MDL ug/L	M
Mercury	253.70		0.20	0.091	CV

Comments:

SW846 - METALS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005129

ICP ID Number: P4 Date: 4/15/2010

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL ug/L	MDL ug/L	M
Aluminum	308.22		200	31.0	P
Antimony	206.84		10	2.0	P
Arsenic	189.04		10	2.5	P
Barium	493.41		200	15.2	P
Beryllium	313.04		5	0.73	P
Cadmium	226.50		5.0	0.64	P
Calcium	317.93		5000	122	P
Chromium	267.72		10	0.75	P
Cobalt	228.62		5	1.5	P
Copper	324.70		5	1.0	P
Iron	271.44		100	12.2	P
Lead	220.35		3	1.6	P
Magnesium	279.08		5000	7.8	P
Manganese	257.61		10	0.17	P
Nickel	231.60		5	0.63	P
Potassium	766.49		5000	30.9	P
Selenium	196.03		5	2.1	P
Silver	328.07		5	0.64	P
Sodium	330.23		5000	156	P
Thallium	190.86		10	3.0	P
Vanadium	292.40		20	1.5	P
Zinc	206.20		20	4.2	P

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005129

ICP ID Number: _____ Date: 4/10/2010

Flame AA ID Number: V4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL mg/Kg	MDL mg/Kg	M
Mercury	253.70		0.03	0.0070	CV

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

ICP ID Number: P4 Date: 4/15/2010

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRQL mg/Kg	MDL mg/Kg	M
Aluminum	308.22		20.00	0.26	P
Antimony	206.84		1.00	0.26	P
Arsenic	189.04		1.00	0.42	P
Barium	493.41		20.00	0.07	P
Beryllium	313.04		0.50	0.03	P
Cadmium	226.50		0.50	0.06	P
Calcium	317.93		500.00	0.35	P
Chromium	267.72		1.00	0.12	P
Cobalt	228.62		0.50	0.24	P
Copper	324.70		0.50	0.07	P
Iron	271.44		10.00	4.10	P
Lead	220.35		0.30	0.19	P
Magnesium	279.08		500.00	0.76	P
Manganese	257.61		1.00	0.02	P
Nickel	231.60		0.50	0.11	P
Potassium	766.49		500.00	1.90	P
Selenium	196.03		0.50	0.23	P
Silver	328.07		0.50	0.04	P
Sodium	330.23		500.00	16.90	P
Thallium	190.86		1.00	0.18	P
Vanadium	292.40		2.00	0.07	P
Zinc	206.20		2.00	0.65	P

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000430	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000560	0.0000000	0.0000840	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0001550	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000390	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.000904	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0001440	0.0000000	0.0000000
Lead	220.35	-0.0001560	0.0000000	0.0000000	0.0000000	-0.0004960
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000270	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0004680	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0007960	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0002910	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0052730	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0003220	0.0000000	0.0000000	-0.000280	0.0000000
Cobalt	228.62	0.0000000	0.0001680	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0703370
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0003730
Lead	220.35	0.0000000	0.0000000	-0.0002140	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0005150	0.0000000	0.0000000	0.0000000	-0.0012010
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0003910	0.0000000	-0.0007140	-0.000134	0.0004890
Selenium	196.02	0.0000000	0.0000000	0.0001610	0.0000930	-0.0008840
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	Mn	Mo	Ni
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0021050	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	-0.0030670	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0001080	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0001310	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0068740	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0028440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0001690	-0.0000920	0.0000000	-0.000603	0.0002400
Lead	220.35	0.0000000	0.0000000	0.0001170	-0.001218	0.0001630
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0002310	-0.0001110	0.0000000	0.0000000	-0.0001570
Selenium	196.02	0.0000000	0.0000000	0.0004510	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0007390	0.0000000	0.0000000
Vanadium	292.40	-0.0016760	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0011640	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Pb	Sb	Se	Sn	Tl
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.004391	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000500	-0.0001990	-0.0000650	-0.000243	-0.0000490
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.000264	0.0003640
Lead	220.35	0.0000000	-0.0001490	0.0000000	-0.000187	-0.0011190
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0002150	-0.0005640	0.0000000	-0.000481	-0.0003860
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0001400	-0.0004280
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005129

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	Zn			
Aluminum	308.21	0.0168710	0.0000000			
Antimony	206.84	-0.0021410	0.0000000			
Arsenic	189.04	0.0000000	0.0000000			
Barium	493.41	0.0000000	0.0000000			
Beryllium	313.04	0.0052620	0.0000000			
Cadmium	226.50	0.0000000	-0.0000580			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.72	-0.0003410	0.0000000			
Cobalt	228.62	0.0000000	0.0000000			
Copper	324.70	0.0000000	0.0000000			
Iron	271.44	0.0249430	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Lead	220.35	-0.0001610	0.0000000			
Magnesium	279.08	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	0.0003030	-0.0001740			
Selenium	196.02	0.0000000	0.0000000			
Silver	328.07	0.0000000	0.0000000			
Sodium	330.23	0.0000000	0.0376950			
Thallium	190.86	-0.0004340	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	206.20	0.0000000	0.0000000			

Comments: _____

SW846 - METALS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005129

ICP ID Number: P4 Date: 4/15/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	400000.0	P
Antimony	15.00	40000.0	P
Arsenic	15.00	20000.0	P
Barium	15.00	50000.0	P
Beryllium	15.00	5000.0	P
Cadmium	15.00	10000.0	P
Calcium	15.00	700000.0	P
Chromium	15.00	60000.0	P
Cobalt	15.00	50000.0	P
Copper	15.00	30000.0	P
Iron	15.00	700000.0	P
Lead	15.00	60000.0	P
Magnesium	15.00	300000.0	P
Manganese	15.00	50000.0	P
Nickel	15.00	60000.0	P
Potassium	15.00	100000.0	P
Selenium	15.00	40000.0	P
Silver	15.00	1000.0	P
Sodium	15.00	700000.0	P
Thallium	15.00	60000.0	P
Vanadium	15.00	50000.0	P
Zinc	15.00	60000.0	P

Comments: _____

4. Raw Data

For each reported value, the laboratory shall include in the data package all raw data used to obtain that value. This applies to all required QA/QC measurements, instrument standardization, as well as all sample analysis results. This does not apply to the Quarterly Verification of Instrument Parameters submitted as a part of each data package.

The order of the raw data in the data package shall be: ICP, Flame AA (if used), Furnace AA (if used), mercury, and cyanide (if a target analyte).

Raw data shall be labeled using EPA sample number convention in order to identify:

- calibration standards, including source and preparation date
- initial and continuing calibration blanks and preparation blanks
- initial and continuing calibration verification standards, interference check samples, ICP serial dilution samples, CRDL standard for ICP and AA (if used), Laboratory Control Sample, and post digestion spike
- diluted and undiluted samples (by client ID number) and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes
- instrument used, including all data voided or data not used and a brief written explanation
- all information for furnace analysis (if used)
- date and time of each analysis (instrument run logs can be submitted if they contain this information
- integration time for AA analyses (if used)

Daily Instrument Profile

Nebulizer pressure: 30
Peak position: +0.03147
Peak intensity: 1099
Vernier position: 493

Maintenance: New torch

Printed: 6/7/2010 10:58:46 AM

Method(s) (circle one): ILM04.1 ILM05.4 (6010B) 200.7 Other _____

Operator(s): JV **Date/Time** 060210/1115 to 060310/0035

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005066	S	TAL P1/1
1005068	S	TAL Complete
1005129	S	TAL
1005131	W	TAL
1005203	W	Mn + Na

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CAL1	S0 BLANK	CALIB STD	1	06/02/10	11:15:54		
CAL2	S RSTD-1	CALIB STD	1	06/02/10	11:23:02		
CAL4	S RSTD-3	CALIB STD	1	06/02/10	11:30:11		
CAL3	S RSTD-2	CALIB STD	1	06/02/10	11:35:47		
CAL5	S RSTD-4	CALIB STD	1	06/02/10	11:42:10		
ICV1	ICV1	ICV	1	06/02/10	11:47:46		
ICB1	ICB	ICB	1	06/02/10	11:54:54		
CRL1	CRI	CRI	1	06/02/10	12:02:03		
IFA1	ICSA	ICS	1	06/02/10	12:09:11		
IFB1	ICSAB	ICS	1	06/02/10	12:16:19		
CCV1	CCV	CCV	1	06/02/10	12:23:28		
CCB1	CCB	CCB	1	06/02/10	12:30:38		
LRS	LRS	LRS	1	06/02/10	12:40:28		
1005066-03	SDZ-SD26	SAMPLE	1	06/02/10	12:47:36	1005066	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Jones Date: 6-7-10

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005066-04	SDZ-SD27	SAMPLE	1	06/02/10	12:54:45	1005066	
1005066-05	SDZ-SD29	SAMPLE	1	06/02/10	13:01:53	1005066	
1005066-06	SDZ-SD29D	SAMPLE	1	06/02/10	13:09:02	1005066	
1005066-07	SDZ-SD17	SAMPLE	1	06/02/10	13:16:10	1005066	
1005066-09	SDZ-SD23	SAMPLE	1	06/02/10	13:23:18	1005066	
1005066-10	SDZ-SD23D	SAMPLE	1	06/02/10	13:30:26	1005066	
1005066-11	SDZ-SD22	SAMPLE	1	06/02/10	13:37:34	1005066	
1005066-12	SDZ-SD05	SAMPLE	1	06/02/10	13:44:42	1005066	
CCV2	CCV	CCV	1	06/02/10	13:51:51		
CCB2	CCB	CCB	1	06/02/10	13:59:01		
1005066-13	SDZ-SD28	SAMPLE	1	06/02/10	14:06:10	1005066	
1005066-14	SDZ-SD08	SAMPLE	1	06/02/10	14:13:18	1005066	
1005066-15	SDZ-SD07	SAMPLE	1	06/02/10	14:20:26	1005066	
1005066-16	SDZ-SD06	SAMPLE	1	06/02/10	14:27:35	1005066	
1005066-17	SDZ-SD09	SAMPLE	1	06/02/10	14:34:43	1005066	
1005066-18	SDZ-SD09D	SAMPLE	1	06/02/10	14:41:52	1005066	
1005066-19	SDZ-SD03	SAMPLE	1	06/02/10	14:49:00	1005066	Ca↑ 2X
1005066-20	SDZ-SD02	SAMPLE	1	06/02/10	14:56:09	1005066	
0060115-BLK1	PBS	PBS	1	06/02/10	15:04:09	1005129	
0060115-BS1	LCSS	LCS	1	06/02/10	15:11:17	1005129	
CCV3	CCV	CCV	1	06/02/10	15:18:26		
CCB3	CCB	CCB	1	06/02/10	15:25:35		
1005129-05RE1	SS53-0-1	SAMPLE	1	06/02/10	15:32:44	1005129	
0060115-DUP1	SS53-0-1D	SAMPLE	1	06/02/10	15:39:52	1005129	
0060115-MS1	SS53-0-1S	SAMPLE	1	06/02/10	15:47:00	1005129	
0060115-MSD1	SS53-0-1SD	SAMPLE	1	06/02/10	15:54:08	1005129	
SRD1	SS53-0-1L	SAMPLE	1	06/02/10	16:01:16	1005129	
0060115-PS1	SS53-0-1A	SAMPLE	1	06/02/10	16:08:24	1005129	
1005129-01RE1	SS55-00-01	SAMPLE	1	06/02/10	16:15:33	1005129	
1005129-02RE1	SB55-00-2.5-3	SAMPLE	1	06/02/10	16:22:41	1005129	
1005129-03RE1	SS54-0-1	SAMPLE	1	06/02/10	16:29:49	1005129	
1005129-04RE1	SB54-4-5	SAMPLE	1	06/02/10	16:36:58	1005129	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Jones Date: 6/7/10

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CCV4	CCV	CCV	1	06/02/10	16:44:07		
CCB4	CCB	CCB	1	06/02/10	16:51:17		
1005129-06RE1	SB53-7-8	SAMPLE	1	06/02/10	16:58:25	1005129	
1005129-07RE1	SS80-0-1	SAMPLE	1	06/02/10	17:05:34	1005129	
1005129-08RE1	SB80-3-4	SAMPLE	1	06/02/10	17:12:42	1005129	
1005129-09RE1	SS56-0-1	SAMPLE	1	06/02/10	17:19:50	1005129	
1005129-10RE1	SB56-3-4	SAMPLE	1	06/02/10	17:26:58	1005129	
1005129-11RE1	SS58-0-1	SAMPLE	1	06/02/10	17:34:07	1005129	
1005129-12RE1	SS52-0-1	SAMPLE	1	06/02/10	17:41:15	1005129	
1005129-13RE1	SS57-0-1	SAMPLE	1	06/02/10	17:48:23	1005129	
1005129-14RE1	SS60-00-01	SAMPLE	1	06/02/10	17:55:31	1005129	
1005129-15RE1	SS59-00-01	SAMPLE	1	06/02/10	18:02:39	1005129	
CCV5	CCV	CCV	1	06/02/10	18:09:48		
CCB5	CCB	CCB	1	06/02/10	18:16:58		
1005129-16RE1	SB59-9-10	SAMPLE	1	06/02/10	18:24:06	1005129	
1005129-17RE1	SB85-0-1	SAMPLE	1	06/02/10	18:31:14	1005129	
1005129-18RE1	SB89-0-1	SAMPLE	1	06/02/10	18:38:23	1005129	
1005129-19RE1	SB89-6.5-7.5	SAMPLE	1	06/02/10	18:45:31	1005129	
1005129-20RE1	SB78-0-1	SAMPLE	1	06/02/10	18:52:39	1005129	
0051814-BLK1	PBS	PBS	1	06/02/10	18:59:48	1005068	
0051814-BS1	LCSS	LCS	1	06/02/10	19:06:57	1005068	
1005068-11	SDZ-SD15	SAMPLE	1	06/02/10	19:14:05	1005068	
0051814-DUP1	SDZ-SD15D	SAMPLE	1	06/02/10	19:21:14	1005068	
0051814-MS1	SDZ-SD15S	SAMPLE	1	06/02/10	19:28:22	1005068	
CCV6	CCV1	CCV	1	06/02/10	19:35:31		
CCB6	CCB1	CCB	1	06/02/10	19:42:39		
0051814-MSD1	SDZ-SD15SD	SAMPLE	1	06/02/10	19:49:48	1005068	
SRD2	SDZ-SD15L	SAMPLE	5	06/02/10	19:56:57	1005068	
0051814-PS1	SDZ-SD15A	SAMPLE	1	06/02/10	20:04:05	1005068	
1005068-01	SDZ-SD04	SAMPLE	1	06/02/10	20:11:13	1005068	
1005068-02	SDZ-SD10	SAMPLE	1	06/02/10	20:18:22	1005068	
1005068-03	SDZ-SD01	SAMPLE	1	06/02/10	20:25:30	1005068	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: D. Jones Date: 6-7-10

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005068-04	SDZ-SD18	SAMPLE	1	06/02/10	20:32:39	1005068	
1005068-05	SDZ-SD20	SAMPLE	1	06/02/10	20:39:47	1005068	
1005068-06	SDZ-SD16	SAMPLE	1	06/02/10	20:46:56	1005068	
1005068-07	SDZ-SD19	SAMPLE	1	06/02/10	20:54:04	1005068	
CCV7	CCV1	CCV	1	06/02/10	21:01:13		
CCB7	CCB1	CCB	1	06/02/10	21:08:22		
1005068-08	SDZ-SD21	SAMPLE	1	06/02/10	21:15:31	1005068	
1005068-09	SDZ-SD13	SAMPLE	1	06/02/10	21:22:40	1005068	
1005068-10	SDZ-SD14	SAMPLE	1	06/02/10	21:29:49	1005068	
1005068-12	SDZ-SD11	SAMPLE	1	06/02/10	21:36:57	1005068	
1005068-13	SDZ-SD12	SAMPLE	1	06/02/10	21:44:06	1005068	
0052612-BLK1	PBW	PBW	1	06/02/10	21:51:15	1005131	
0052612-BS1	LCSW	LCS	1	06/02/10	21:58:23	1005131	
0052612-BSD1	LCSWD	LCS	1	06/02/10	22:05:32	1005131	
1005131-01	EB051210-SS	SAMPLE	1	06/02/10	22:12:41	1005131	
1005131-02	EB051310-SB	SAMPLE	1	06/02/10	22:19:50	1005131	
CCV8	CCV1	CCV	1	06/02/10	22:26:58		
CCB8	CCB1	CCB	1	06/02/10	22:34:07		
1005131-03	BBG-FB051310	SAMPLE	1	06/02/10	22:41:16	1005131	
1005131-04	BBG-FB051810	SAMPLE	1	06/02/10	22:48:25	1005131	
1005131-05	EB051810-SS	SAMPLE	1	06/02/10	22:55:34	1005131	
0052725-BLK1	PBW	PBW	1	06/02/10	23:02:42	1005203	
0052725-BS1	LCSW	LCS	1	06/02/10	23:09:51	1005203	
0052725-BSD1	LCSWD	LCS	1	06/02/10	23:17:00	1005203	
1005203-01	MW-10	SAMPLE	1	06/02/10	23:24:09	1005203	
SRD3	MW-10L	SAMPLE	5	06/02/10	23:31:18	1005203	
1005203-02	MW-18	SAMPLE	1	06/02/10	23:38:27	1005203	
1005203-03	MW-17	SAMPLE	1	06/02/10	23:45:36	1005203	
CCV9	CCV1	CCV	1	06/02/10	23:52:45		Ba, Be, Zn, Sn ↓
CCB9	CCB1	CCB	1	06/02/10	23:59:59		
1005203-04	MW-22	SAMPLE	1	06/03/10	00:07:08	1005203	
1005203-05	MW-18DUP	SAMPLE	1	06/03/10	00:14:17	1005203	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Jones Date: 6-7-10

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
IBL1	IBL	SAMPLE	1	06/03/10	00:21:25		
CCVA	CCV	CCV	1	06/03/10	00:28:35		Ba, Be, Zn, Sn
CCBA	CCB	CCB	1	06/03/10	00:35:44		

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Fonseca Date: 6-7-10

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: P30601, P40601A & P40602

HNO_3 [Baker Instra-analyzed Trace-Metals grade]
HCl [Baker Instra-analyzed Trace-Metals grade]
SM-770-027 multi-element standard mix (RSTD-1)
SM-770-028 part A multi-element standard mix (RSTD-2A)
SM-770-028 part B multi-element standard mix (RSTD-2B)
SM-770-029 part A multi-element standard mix (RSTD-3A)
SM-770-029 part B multi-element standard mix (RSTD-3B)
SM-770-030 multi-element standard mix (RSTD-4)
SPEX-R multi-element standard mix
ICP-AES-CRQL-R multi-element standard mix
ICV1 multi-element standard mix
ICSA multi-element standard mix
ICSB multi-element standard mix
SM-770-031 multi-element standard mix (PDS-R)
ARSENIC (As) 1,000 PPM single-element standard
Internal Mix
SM-770-040 multi-element CCV mix (Soln A)
SM-770-040 multi-element CCV mix (Soln B)
SM-770-042 (LRS 6010B)

Ref #*	Manufacturer	Lot #	Expiration Date
0 E19001	JT Baker	J10027	05/15
0 E20028	Caledon	7 2420	05/15
9G08002	High Purity	0916328	06/15/10
9J22002	High Purity	0928011	10/12/2010
9J22001	High Purity	0928012	10/12/2010
0D14008	High Purity	0925430	04/09/11
9G08005	High Purity	0906204	10/16/10
9G08001	High Purity	0916327	06/15/10
0A04007	High Purity	0916301	06/15/10
9I04002	High Purity	0923808	08/28/10
0B04003	EPA	0307	02/04/11
0B04002	EPA	1206	02/04/11
0B04001	EPA	0203	02/04/11
9I22001	High Purity	0926418	09/17/10
9F17001	High Purity	0911221	12/05/10
0B04004	High Purity	0934101	12/10/10
0E03001	High Purity	1010910	04/21/11
0E03001	High Purity	1010911	04/21/11
0B23007	High Purity	1004021	02/10/11

Multi-Element Stock Standard Concentrations:

Stock Standard	Analyte Concentrations (µg/mL)
RSTD-1 multi-element standard mix	Cd:1,000 Cr:1,000 Cu:1,000 Pb:1,000 Ni:1,000 Se:1,000 Ag:100 Tl:1,000 Zn:1,000
RSTD-2A/2B multi-element standard mix	Part A: As:1,000 Ba:1,000 Be:1,000 Co:1,000 Mn:1,000 Mo:1,000 V:1,000 Part B: Fe:25,000
RSTD-3A/3B multi-element standard mix	Part A: Ca:10,000 Mg:10,000 K:10,000 Na:10,000 Part B: Al:10,000
RSTD-4 multi-element standard mix	Sb:1,000 Bi:1,000 B:1,000 Sn:1,000 Ti:1,000
SPEX-R multi-element standard mix	Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 B:1,000
ICP-AES-CRQL-R multi-element standard mix	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60
PDS-R multi-element standard mix	Al:400 Ba:400 Ag:20 Be:10 Cd:10 Co:100 Cr:20 Cu:50 Fe:200 Mn:30 Ni:80 Tl:20 V:100 Zn:40 Pb:6 Se:10 As:20 Sb:120
Internal Mix	Li:50,000 Y:250
LRS 6010B multi-element standard mix	Al: 20 Sb:1 As:1 Ba:20 Be:0.5 Bi:2 B:2 Cd:0.5 Ca:500 Cr:1 Co:0.5 Cu:0.5 Fe:10 Pb:0.3 Mg:500 Mn:1 Mo:2 Ni:0.5 K:500 Se:0.5 Ti:0.5 V:2 Zn:2

Entered By: _____

Reviewed By: _____ Date: 6-3-10

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log
**High Purity is abbreviated "HP" on reporting forms

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 2 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (µg/L)
S0/ICB/CCB- 052310-JCF	0 E23005	Place in a 500 mL volumetric flask: 100 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Bring up to volume with deionized water. Transfer to a 2L Teflon bottle and add 1.5L deionized water. Final volume 2 L. Prepare as needed.	N/A
RSTD-1- 052610-JCF	0 E 26010	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-1 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
RSTD-2- 052610-JCF	0 E26011	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL each RSTD-2A and RSTD-2B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:50,000 Mn:2,000 Mo:2,000 V:2,000
RSTD-3- 052610-JCF	0 E 26012	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 2.0 mL each RSTD-3A and RSTD-3B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	K:100,000 Na:100,000 Al:100,000 Mg:100,000 Ca:100,000
RSTD-4- 052610-JCF	0 E 26013	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-4 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Ti:2,000 Sb:2,000 B:2,000
ICV1- 051110-JCF	0E11002	Place in a 500 mL volumetric flask: 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICV1 into flask and 0.55 mL Compuchem SPEX-R. Bring up to volume with deionized water. Transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:2,521 Ba:497 K:10,021 Mg:6,074 Na:10,097 Ca:10,026 Ag:501 Be:495 Cd:496 Co:499 Cr:490 Cu:492 Fe:5,082 Mn:499 Ni:503 Tl:1,028 V:501 Zn:1,025 Pb:1002 Se:1,029 As:999 Sb:994 Mo:1,100 Sn:1,100 Bi:1,100 Ti:1,100 B:1,100
CCV/CVS1- 051210-SGM	0 E12009	Place in a 500-mL volumetric flask: 300 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Add 50 ml of SM-770-40 Soln A and Soln B. Bring up to volume with deionized water. Transfer to a 2000mL Teflon bottle and add 1.5 L of deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:25,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,100 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000
LRS- 042510-JCF	0D25008	In a 500 mL volumetric flask, combine 200 mL deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 5.0mL of LRS 6010B. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:200 Ba:200 K:5,000 Mg:5,000 Na:5,000 Ca:5,000 Ag:5 Be:5 Cd:5 Co:10 Cr:10 Cu:5 Fe:100 Mn:10 Ni:5 Tl:10 V:20 Zn:20 Pb:3 Se:5 As:10 Mo:20 Sn:20 Bi:20 Ti:20 Sb:10 B:20

Standard Solutions Prepared By: [signature]

Entered By: [signature]

Reviewed By: L. Jones Date: 6-3-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation Instructions	Resultant Analyte Conc. (µg/L)
As- 051310-JF	0E13006	In a 100 mL volumetric flask, combine 50 mL deionized water, 1 mL concentrated HNO_3, 5 mL concentrated HCl, and 0.1 mL 1000-ppm As standard. Bring to final 100 mL volume	As:1,000
ICSA- 051810-JF	0E18020	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Al:244,100 Ba:2 Ca:234,900 Co:4 Cr:43 Cu:23 Fe:95,600 Mg:247,500 Mn:19 Ni:21 Zn:28 Pb:10
ICSAB- 051810-JF	0E18021	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA and 50.0 mL ICSB into flask. Add 0.5 mL Compuchem SPEX-R. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Ag:206 Al:241,100 Ba:495 Be:475 Ca:231,100 Cd:940 Co:461 Cr:511 Cu:548 Fe:94,800 Mg:251,100 Mn:502 Ni:984 Tl:103 V:494 Zn:1028 Pb:61 Se:53 Sb:589 As:101 Sn:1,000 Bi:1,000 Mo:1,000 Ti:1,000 B:1,000
EPA-CRI- 052310-JF	0E23004	In a 500 mL volumetric flask, combine 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 0.50 mL ICP-AES-CRQL-R and 25 µL Compuchem SPEX-R into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60 Sn:50 B:50 Mo:50 Bi:50 Ti:50
P3RINSE- 050910-JF	0E09008	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P4RINSE- 050910-JF	0E09006	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P5RINSE- NA	NA	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P3INTSTD- 050910-JF	0E09007	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P4INTSTD- ~~050410-JF~~ 051110-JF 060210	0E11004	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P5INTSTD- NA	NA	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000

Standard Solutions Prepared By: _____

Entered By: _____

Reviewed By: _____ Date: 6-3-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

METHOD: ALT-P4Q2 STANDARD: S0 BLANK
RUN TIME: 06/02/10 11:15:54

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
AVGE	.00933	.24341	.04028	.07785	.02960	.13690	.09915
SDEV	.00681	.00510	.00129	.00152	.00082	.00176	.00066
%RSD	72.931	2.0960	3.2095	1.9576	2.7613	1.2869	.66649
#1	.01700	.23792	.04178	.07708	.02924	.13765	.09943
#2	.00700	.24430	.03959	.07687	.03054	.13816	.09962
#3	.00400	.24800	.03948	.07961	.02903	.13489	.09839

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
AVGE	.00056	.57330	-.00155	.06447	.00355	.00049	.00138
SDEV	.00134	.00751	.00097	.06132	.00292	.00032	.00356
%RSD	238.37	1.3091	62.368	95.126	82.350	65.324	257.56
#1	-.00021	.56597	-.00146	.13515	.00640	.00021	.00543
#2	.00211	.58097	-.00063	.03285	.00367	.00084	.00000
#3	-.00021	.57297	-.00256	.02540	.00057	.00043	-.00128

ELEM	NI2316	TL1908	V_2924	ZN2062	SB2068	AS1890	22031
AVGE	.00021	-.02102	.00063	.00014	.01484	-.01067	.03958
SDEV	.00042	.00587	.00055	.00053	.00081	.01155	.04145
%RSD	202.12	27.948	87.442	386.29	5.4910	108.18	104.74
#1	.00021	-.01776	.00125	.00021	.01525	-.00982	.08731
#2	.00063	-.02780	.00042	.00063	.01390	.00042	.01264
#3	-.00021	-.01750	.00021	-.00043	.01537	-.02262	.01878

ELEM	22032	19601	19602	SN1899	BI2230	MO2020	TI3349
AVGE	-.01698	-.07042	.05002	-.00344	.00236	.00189	-.00964
SDEV	.01181	.01526	.02345	.03683	.00540	.00212	.00093
%RSD	69.564	21.669	46.876	1070.5	229.11	111.97	9.6845
#1	-.01984	-.06517	.03050	.03906	.00856	.00418	-.00856
#2	-.00400	-.08761	.07603	-.02590	-.00021	.00000	-.01011
#3	-.02711	-.05848	.04354	-.02348	-.00128	.00149	-.01024

METHOD: ALT-P4Q2 STANDARD: S RSTD-1
RUN TIME: 06/02/10 11:23:02

ELEM	AG3280	CD2265	CR2677	CU3247	NI2316	TL1908	ZN2062
AVGE	6.3973	22.799	4.8153	124.93	8.1099	6.5751	2.5734
SDEV	.0317	.151	.0476	.64	.0401	.0343	.0258
%RSD	.49486	.66181	.98763	.51158	.49425	.52199	1.0027
#1	6.3677	22.649	4.7783	124.56	8.0795	6.5616	2.5470
#2	6.3937	22.798	4.7987	124.57	8.0948	6.5497	2.5747
#3	6.4307	22.951	4.8690	125.67	8.1553	6.6142	2.5986

ELEM	22031	22032	19601	19602
AVGE	35.647	12.682	9.5844	17.663
SDEV	.217	.104	.0738	.162
%RSD	.60953	.82236	.76994	.91771
#1	35.413	12.620	9.5295	17.612
#2	35.843	12.624	9.5555	17.532
#3	35.686	12.803	9.6683	17.844

METHOD: ALT-P4Q2 STANDARD: S RSTD-3
RUN TIME: 06/02/10 11:30:11

ELEM	AL3082	CA3179	K_7664	MG2790	NA3302
AVGE	55.505	88.277	366.23	61.984	3.4006
SDEV	.340	.745	1.47	.494	.0022
%RSD	.61258	.84405	.40156	.79753	.06405
#1	55.152	87.585	364.87	61.553	3.4001
#2	55.830	89.066	367.79	62.524	3.4030
#3	55.532	88.180	366.03	61.877	3.3987

METHOD: ALT-P4Q2 STANDARD: S RSTD-2
RUN TIME: 06/02/10 11:35:47

ELEM	BA4934	BE3130	CO2286	FE2714	MN2576	V_2924	AS1890
AVGE	30.464	16.764	4.3535	6.1331	4.7797	3.5583	15.695
SDEV	.267	.055	.0295	.0365	.0199	.0162	.134
%RSD	.87488	.32803	.67689	.59510	.41553	.45521	.85280
#1	30.376	16.728	4.3421	6.1204	4.7731	3.5464	15.590
#2	30.253	16.737	4.3315	6.1046	4.7640	3.5517	15.649
#3	30.764	16.828	4.3870	6.1742	4.8021	3.5767	15.846

ELEM	MO2020
AVGE	3.9211
SDEV	.0090
%RSD	.23002
#1	3.9241
#2	3.9110
#3	3.9283

METHOD: ALT-P4Q2 STANDARD: S RSTD-4
RUN TIME: 06/02/10 11:42:10

ELEM	SB2068	SN1899	BI2230	TI3349
AVGE	5.4743	22.137	4.0129	44.060
SDEV	.0507	.280	.0439	.307
%RSD	.92578	1.2640	1.0929	.69712
#1	5.4830	22.246	4.0298	43.983
#2	5.5200	22.346	4.0457	44.399
#3	5.4198	21.819	3.9631	43.799

METHOD: ALT-P4Q2 SAMPLE NAME: ICV1 OPERATOR:
RUN TIME: 06/02/10 11:47:46
COMMENT: ICV1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	515.8570	2405.258	486.8646	521.7289	9781.315	499.9429	526.8616
SDEV	3.2722	12.153	2.5594	3.0360	65.446	2.4189	1.9374
%RSD	.6343147	.5052673	.5256869	.5819106	.6690894	.4838284	.3677292
#1	517.8085	2395.274	484.0632	521.9458	9793.294	497.5594	526.3858
#2	517.6832	2418.790	489.0805	524.6507	9839.942	502.3956	528.9926
#3	512.0793	2401.709	487.4502	518.5903	9710.706	499.8736	525.2064
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	501.0000	2521.000	497.0000	495.0000	10026.00	496.0000	499.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	494.7037	518.9940	5108.827	10843.23	5959.207	512.3681	9659.408
SDEV	12.9708	2.4530	57.288	89.63	61.101	8.4473	52.018
%RSD	2.621934	.4726491	1.121344	.8266370	1.025320	1.648669	.5385180
#1	495.6301	520.8863	5110.666	10743.75	5930.575	513.5027	9700.258
#2	507.1865	519.8732	5165.173	10868.24	6029.366	520.1907	9677.118
#3	481.2946	516.2226	5050.642	10917.70	5917.679	503.4109	9600.848
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	490.0000	492.0000	5082.000	10021.00	6074.000	499.0000	10097.00
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	503.1204	1036.527	506.0601	976.5855	999.7673	997.7474	1008.020
SDEV	4.2150	7.481	9.1195	5.5717	9.0128	7.0564	1.642
%RSD	.8377680	.7217749	1.802061	.5705331	.9014875	.7072285	.1628687
#1	498.9066	1030.434	504.2890	970.2637	993.2978	990.1998	1006.172
#2	507.3366	1034.271	515.9353	980.7809	1010.062	1004.180	1008.580
#3	503.1180	1044.877	497.9561	978.7120	995.9423	998.8627	1009.309
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	503.0000	1028.000	501.0000	1025.000	1002.000	1029.000	994.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1010.142	998.7444	1000.274	1003.619	994.8140	1116.618	1088.129
SDEV	2.265	8.6664	10.005	10.034	6.6096	6.767	3.008
%RSD	.2241840	.8677318	1.000227	.9997482	.6644040	.6060007	.2764432
#1	1008.063	997.2861	991.3030	996.2376	987.1832	1108.805	1084.706
#2	1012.555	1008.047	1011.064	1015.043	998.7538	1120.455	1090.353
#3	1009.807	990.8996	998.4562	999.5750	998.5049	1120.595	1089.328
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	999.0000					1100.000	1100.000
RANGE	10.40000					10.40000	10.40000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1117.467	1089.690	4979.489
SDEV	7.438	9.434	40.991
%RSD	.6656022	.8657723	.8232045
#1	1110.100	1095.648	5022.200
#2	1124.974	1094.609	4975.800
#3	1117.326	1078.813	4940.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1100.000	1100.000	
RANGE	10.40000	10.40000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICB OPERATOR:
RUN TIME: 06/02/10 11:54:54
COMMENT: ICB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.177407	10.26055	.0205857	.3819596	371.6671	-.263818	-1.01690
SDEV	.284073	2.70431	.1397533	.0514372	3.1922	.108746	.48606
%RSD	160.1254	26.35636	678.8842	13.46665	.8588927	41.22013	47.79838
#1	-.386120	13.16152	-.083607	.3657071	370.3370	-.319119	-1.15245
#2	-.292199	7.809284	-.034036	.3406120	369.3550	-.333799	-1.42080
#3	.1460997	9.810851	.1794007	.4395599	375.3093	-.138535	-.477452
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0044408	-.541423	-7.67832	-1440.43	2.328104	.1066872	-7.89527
SDEV	.6634517	.269741	13.90060	7.92	2.014952	.1806678	94.29770
%RSD	14939.92	49.82078	181.0371	.5498394	86.54907	169.3434	1194.356
#1	.6555210	-.680799	4.919799	-1448.47	1.356821	.0505683	-81.3362
#2	-.670726	-.712962	-22.5909	-1440.20	.9827647	-.039262	-40.7943
#3	.0285279	-.230507	-5.36388	-1432.63	4.644726	.3087548	98.44470
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.032504	4.263839	.3127922	.5598137	-.114733	.9238452	.5371329
SDEV	.658917	.619185	.5758998	.4073666	1.162735	.9237508	1.680325
%RSD	2027.172	14.52177	184.1157	72.76824	1013.423	99.98977	312.8322
#1	.5807464	4.876890	-.348678	.9920576	.0511236	1.418539	1.372858
#2	-.729147	3.638697	.5843365	.1830012	-1.35149	-.141899	-1.39719
#3	.0508883	4.275931	.7027181	.5043823	.9561667	1.494896	1.635735
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.892498	2.048598	-1.19732	-.271265	1.517964	-.177647	1.146668
SDEV	2.023077	3.584925	2.78888	3.172283	2.408576	1.064508	1.002077
%RSD	226.6759	174.9941	232.9273	1169.439	158.6714	599.2258	87.39032
#1	-1.03635	-2.05871	1.101893	-3.88548	4.064006	-.381004	.6380442
#2	-2.83981	4.548570	-4.29963	1.019639	-.724331	.9738706	2.301055
#3	1.198667	3.655934	-.394214	2.052046	1.214218	-1.12581	.5009057
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.860700	.0555532	4757.466
SDEV	1.171577	.3186887	44.030
%RSD	40.95421	573.6638	.9254966
#1	4.057442	.0970928	4708.999
#2	2.808634	-.281868	4768.400
#3	1.716024	.3514352	4794.999
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 06/02/10 12:02:03
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.277328	-6.54558	-.015959	5.134851	378.0253	4.521819	50.31349
SDEV	.109946	8.15571	.039690	.202733	.0992	.119302	1.06749
%RSD	1.185108	124.5988	248.7063	3.948185	.0262413	2.638372	2.121673
#1	9.162536	2.053072	-.013788	5.337730	378.0754	4.659452	51.49747
#2	9.287764	-7.51879	.0226015	5.134559	378.0894	4.447919	49.42456
#3	9.381684	-14.1710	-.056689	4.932264	377.9110	4.458085	50.01843
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.940142	24.95370	2.378596	-1438.85	-3.34990	16.55349	-16.2376
SDEV	.858723	.08954	6.432775	4.55	1.55425	.32974	41.9617
%RSD	8.638940	.3588255	270.4442	.3163585	46.39683	1.991977	258.4223
#1	10.48303	25.03411	5.137306	-1438.54	-5.05902	16.92047	30.84710
#2	10.38727	24.85721	6.971906	-1434.46	-2.96956	16.28213	-49.6821
#3	8.950116	24.96978	-4.97342	-1443.55	-2.02113	16.45786	-29.8779
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	40.05512	26.08977	50.37538	60.26712	10.15265	36.81860	60.42986
SDEV	.50868	1.11395	.21165	.83908	1.33616	2.08578	.78580
%RSD	1.269957	4.269673	.4201406	1.392276	13.16067	5.665008	1.300358
#1	40.60336	25.45176	50.53616	60.78901	8.680197	38.50534	61.06460
#2	39.59843	25.44151	50.13559	60.71313	10.48983	34.48639	59.55096
#3	39.96357	27.37603	50.45438	59.29922	11.28791	37.46408	60.67402
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.995400	10.78454	9.834232	37.37555	36.53802	48.41082	48.46492
SDEV	.918644	3.11168	.675018	3.31991	1.75721	.48550	2.03875
%RSD	9.190665	28.85314	6.863965	8.882568	4.809263	1.002868	4.206660
#1	10.74730	7.798119	9.117700	38.68827	38.41145	48.33545	47.46518
#2	10.26744	10.54757	10.45818	33.59999	34.92641	47.96742	50.81057
#3	8.971459	14.00793	9.926821	39.83838	36.27620	48.92960	47.11901
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000					50.00000	
RANGE	3.000000					15.00000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	49.73163	48.85184	4793.955
SDEV	1.06106	.25996	55.695
%RSD	2.133570	.5321299	1.161786
#1	50.00424	49.07302	4731.267
#2	50.62978	48.56550	4812.866
#3	48.56086	48.91699	4837.733
ERRORS	NOCHECK	NOCHECK	NOCHECK
VALUE			
RANGE			

METHOD: ALT-P4Q2 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 06/02/10 12:09:11
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0104357	248935.2	2.508883	.9432038	246167.0	3.208289	-2.17242
SDEV	.8051051	412.9	.190284	.2738830	3049.2	.578744	.62178
%RSD	7714.912	.1658838	7.584423	29.03752	1.238686	18.03902	28.62134
#1	-.323506	249409.6	2.397012	.6305985	246746.2	2.541422	-2.25096
#2	-.573963	248738.9	2.401045	1.058029	242869.8	3.504160	-2.75120
#3	.9287763	248657.0	2.728592	1.140984	248885.1	3.579285	-1.51511
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	10.00000	48820.00	400.0000	10.00000	46980.00	10.00000	10.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	43.25840	23.26510	97904.41	-1436.26	265271.0	19.34065	910.1434
SDEV	1.12137	.40172	1302.94	10.45	2814.5	.52919	158.8510
%RSD	2.592259	1.726726	1.330831	.7273676	1.061009	2.736158	17.45340
#1	42.45100	23.58674	96724.19	-1443.85	262171.2	18.75668	796.4518
#2	42.78542	22.81481	97686.48	-1440.58	265975.5	19.47683	842.3325
#3	44.53876	23.39376	99302.59	-1424.34	267666.4	19.78845	1091.646
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	10.00000	19120.00	2000.000	49500.00	20.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.90969	8.367122	-.809176	30.85435	7.696450	-2.57075	1.831376
SDEV	.47635	4.197357	2.013319	.60360	1.846428	3.81327	1.041828
%RSD	2.174138	50.16489	248.8110	1.956285	23.99064	148.3332	56.88770
#1	21.50541	3.874992	-1.79704	31.21634	9.822396	1.649332	1.616405
#2	21.78884	9.037308	-2.13776	30.15755	6.493614	-5.76902	.9138031
#3	22.43483	12.18906	1.507267	31.18916	6.773341	-3.59256	2.963921
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	1.000000	28.00000	10.00000	.0000000	.0000000
RANGE	10.00000	20.00000	40.00000	40.00000	6.000000	10.00000	20.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.89717	-5.58238	14.32259	10.79875	-9.24814	.5563390	3.726628
SDEV	2.96301	10.37708	6.35775	9.57147	7.19822	6.109599	3.539012
%RSD	156.1804	185.8898	44.38965	88.63502	77.83422	1098.179	94.96552
#1	-2.00681	-8.93535	19.18392	8.370269	-1.70873	-3.33856	2.110227
#2	1.119138	-13.8684	16.65601	2.675435	-9.98760	-2.59028	1.284438
#3	-4.80383	6.056633	7.127832	21.35055	-16.0481	7.597856	7.785221
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	20.00000					100.0000	100.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-1.06775	-4.65285	4548.755
SDEV	1.52710	.22294	47.067
%RSD	143.0205	4.791405	1.034732
#1	-2.30975	-4.39972	4595.667
#2	.6372773	-4.81997	4501.533
#3	-1.53078	-4.73886	4549.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	100.0000	100.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 06/02/10 12:16:19
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	207.1171	246744.4	488.9330	511.8936	252206.9	958.9493	502.1979
SDEV	.7112	1370.5	3.7680	.7380	1320.8	2.3151	3.1935
%RSD	.3433616	.5554464	.7706654	.1441769	.5236855	.2414244	.6359007
#1	206.3031	248233.3	492.9616	511.2072	250945.5	957.6842	498.8228
#2	207.6180	245535.5	485.4953	512.6742	253579.9	961.6214	505.1719
#3	207.4302	246464.3	488.3421	511.7993	252095.4	957.5425	502.5990
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	92.20000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	525.0165	545.6525	99615.48	-1422.28	265252.2	524.8723	885.4405
SDEV	3.0565	2.5776	145.36	12.00	1147.8	2.1364	148.6960
%RSD	.5821655	.4723847	.1459202	.8437064	.4327171	.4070293	16.79345
#1	527.3236	544.0925	99455.32	-1408.83	265423.8	525.1173	1050.847
#2	526.1758	544.2372	99652.09	-1426.15	264028.2	526.8756	842.6248
#3	521.5499	548.6276	99739.04	-1431.87	266304.5	522.6240	762.8497
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	998.7552	104.3047	500.3286	952.3929	56.16474	50.12809	615.6316
SDEV	1.7910	2.2068	3.5037	8.4336	.32411	1.16475	1.4741
%RSD	.1793262	2.115736	.7002849	.8855121	.5770629	2.323549	.2394383
#1	997.9069	106.5914	504.3632	943.2680	55.81467	48.88481	615.6164
#2	1000.813	104.1351	498.5720	959.9011	56.22518	51.19395	614.1652
#3	997.5459	102.1875	498.0507	954.0095	56.45437	50.30551	617.1132
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	20.60000	98.80000	205.6000	12.20000	10.60000	117.8000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	103.5727	51.67522	58.40229	63.70169	43.34890	998.6625	1003.101
SDEV	3.9125	12.79528	6.83755	9.81863	5.97188	.7382	6.597
%RSD	3.777588	24.76096	11.70767	15.41346	13.77631	.0739172	.6576870
#1	100.6439	66.43654	50.50782	72.69814	36.99341	998.4908	1009.086
#2	102.0581	43.74979	62.44970	65.17870	44.20951	999.4714	996.0270
#3	108.0161	44.83932	62.24936	53.22823	48.84379	998.0253	1004.188
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	101.0000					1000.000	1000.000
RANGE	20.20000					200.0000	200.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	971.2037	965.1730	4724.889
SDEV	3.4612	5.5235	31.634
%RSD	.3563868	.5722855	.6695229
#1	967.5717	970.0785	4688.400
#2	971.5751	966.2503	4744.600
#3	974.4642	959.1902	4741.667
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	200.0000	200.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 12:23:28
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	101.8941	47110.82	939.6988	1044.399	48807.18	981.7039	1024.030
SDEV	.1129	335.00	7.3391	9.988	493.52	12.4746	8.181
%RSD	.1107794	.7110860	.7810037	.9563544	1.011172	1.270705	.7989394
#1	101.9254	47378.02	948.1668	1052.696	49128.31	993.3401	1031.230
#2	101.9880	47219.46	935.7524	1047.188	49054.32	983.2385	1025.726
#3	101.7688	46734.98	935.1774	1033.313	48238.91	968.5330	1015.133
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	991.2111	1010.928	25161.43	51568.54	50014.70	1019.753	49859.02
SDEV	17.0176	2.327	257.22	484.62	391.44	11.199	276.43
%RSD	1.716848	.2302111	1.022268	.9397520	.7826454	1.098183	.5544304
#1	990.8013	1009.261	25291.81	51981.53	50166.55	1028.037	50018.69
#2	1008.430	1013.587	25327.35	51689.04	50307.46	1024.210	50018.54
#3	974.4020	1009.936	24865.13	51035.04	49570.09	1007.012	49539.82
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	990.3199	997.8918	1012.366	1067.905	984.4180	994.0190	1011.928
SDEV	7.5980	3.5506	8.530	11.816	12.8973	10.4396	5.149
%RSD	.7672241	.3558080	.8426075	1.106488	1.310146	1.050241	.5088440
#1	997.2468	1001.968	1009.852	1078.030	997.0626	1002.836	1016.782
#2	991.5192	995.4732	1021.870	1070.763	984.9095	996.7300	1012.475
#3	982.1935	996.2341	1005.375	1054.922	971.2820	982.4914	1006.528
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1012.259	979.1633	987.0386	996.8642	992.5963	1032.774	989.3755
SDEV	4.915	19.2230	9.7538	9.4501	11.0619	9.995	8.5675
%RSD	.4855686	1.963207	.9881864	.9479780	1.114438	.9677426	.8659514
#1	1017.872	997.5358	996.8234	1006.140	1001.184	1042.223	997.5449
#2	1010.180	980.7642	986.9763	997.2031	996.4915	1033.787	990.1229
#3	1008.726	959.1899	977.3162	987.2493	980.1137	1022.311	980.4589
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1027.959	997.2328	4907.777
SDEV	3.211	5.2629	41.704
%RSD	.3124057	.5277484	.8497505
#1	1031.578	1002.378	4869.466
#2	1026.852	997.4614	4901.667
#3	1025.448	991.8593	4952.200
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 12:30:38
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.156535	5.877749	-.021665	.2643455	370.5971	-.356753	-2.25569
SDEV	.018075	2.941066	.065664	.0219456	.5372	.207932	.44869
%RSD	11.54701	50.03727	303.0894	8.301846	.1449609	58.28464	19.89130
#1	-.135664	9.182363	-.090798	.2857886	371.0412	-.421132	-2.45055
#2	-.166971	3.547571	.0398679	.2653180	369.9999	-.524881	-2.57400
#3	-.166971	4.903314	-.014064	.2419298	370.7500	-.124245	-1.74252
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.291907	-.873782	-9.37459	-1441.28	-2.29903	.0207311	68.47156
SDEV	.334384	.297840	11.43131	5.04	1.08933	.1033398	77.44003
%RSD	114.5515	34.08637	121.9393	.3496234	47.38200	498.4777	113.0981
#1	-.055585	-.568226	3.244448	-1446.86	-1.09984	.1400565	-20.5291
#2	-.674505	-1.16326	-12.3308	-1437.07	-2.56986	-.038479	120.4630
#3	-.145633	-.889864	-19.0374	-1439.90	-3.22739	-.039384	105.4808
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.228859	3.606866	.0021164	.5609796	-.474687	.5682136	-1.58360
SDEV	.242931	1.455709	.1207416	.6555808	1.592876	.6916200	1.22387
%RSD	106.1487	40.35939	5705.139	116.8636	335.5636	121.7183	77.28421
#1	-.372797	4.354288	.0087765	1.317975	-1.82181	.2296348	-.328107
#2	.0516209	1.929273	.1193901	.1804852	1.283400	.1111154	-2.77318
#3	-.365400	4.537038	-.121817	.1844781	-.885646	1.363891	-1.64950
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.262721	.4836521	-.955689	2.121432	-.209782	-.694921	.2328445
SDEV	2.083638	2.470141	1.289575	1.923655	1.880173	.317565	1.443054
%RSD	793.1002	510.7269	134.9367	90.67718	896.2501	45.69802	619.7501
#1	1.714057	-2.12879	-1.67113	1.569550	-.441891	-.328476	-1.38969
#2	-2.43888	2.781318	.5330097	4.260708	-1.96312	-.866469	1.372650
#3	-.063335	.7984260	-1.72895	.5340376	1.775669	-.889819	.7155750
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.729860	-.250903	4736.289
SDEV	.791800	.232660	42.792
%RSD	29.00517	92.72874	.9034899
#1	3.632664	-.001289	4696.466
#2	2.403579	-.461733	4730.866
#3	2.153335	-.289689	4781.533
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: LRS OPERATOR:
RUN TIME: 06/02/10 12:40:28
COMMENT: SDG:LRS CLIENTID:LRS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.099400	172.3852	185.4182	4.900778	5029.020	4.516913	3.222087
SDEV	.937297	8.2501	1.9744	.190712	52.856	.327729	.431103
%RSD	30.24124	4.785857	1.064819	3.891456	1.051025	7.255606	13.37963
#1	3.746413	167.3239	184.1205	4.877755	5088.263	4.882414	3.432006
#2	L2.024524	167.9265	184.4438	4.722623	4986.691	4.249233	2.726231
#3	3.527263	181.9053	187.6904	5.101956	5012.105	4.419090	3.508025
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	300.0000	300.0000	7.500000	7500.000	7.500000	7.500000
LOW	2.500000	100.0000	100.0000	2.500000	2500.000	2.500000	2.500000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.15023	4.417153	63.78285	4610.531	4919.286	10.33629	4588.876
SDEV	.31264	.181233	3.03940	53.751	35.530	.16355	95.519
%RSD	3.080104	4.102948	4.765227	1.165823	.7222669	1.582270	2.081528
#1	10.50952	4.513644	67.19490	4559.246	4927.878	10.37875	4618.730
#2	9.940220	4.529726	62.78843	4605.900	4880.247	10.15571	4481.996
#3	10.00094	4.208089	61.36522	4666.447	4949.732	10.47443	4665.902
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	15.00000	7.500000	150.0000	7500.000	7500.000	15.00000	7500.000
LOW	5.000000	2.500000	50.00000	2500.000	2500.000	5.000000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.177328	11.80526	19.64342	20.21074	3.384476	5.716173	9.501459
SDEV	.541821	1.72173	.77186	.53918	.444168	.899682	.915148
%RSD	8.771120	14.58440	3.929380	2.667772	13.12369	15.73923	9.631658
#1	6.779569	11.74780	20.30032	20.75667	3.021992	6.596346	8.689941
#2	5.729411	10.11298	18.79330	20.19697	3.879946	5.753996	10.49337
#3	6.023004	13.55499	19.83662	19.67858	3.251488	4.798176	9.321066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	15.00000	30.00000	30.00000	4.500000	7.500000	15.00000
LOW	2.500000	5.000000	10.00000	10.00000	1.500000	2.500000	5.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.659812	.4183056	4.862542	4.437860	6.351886	19.24604	18.26924
SDEV	1.394164	7.097351	4.180836	8.886908	4.491973	3.15716	3.43749
%RSD	14.43262	1696.691	85.98045	200.2521	70.71873	16.40423	18.81571
#1	10.04092	4.097519	2.482266	10.81897	4.485736	19.86594	21.33827
#2	10.82379	-7.76322	9.690001	-5.71245	11.47613	15.82490	14.55479
#3	8.114724	4.920617	2.415360	8.207056	3.093788	22.04727	18.91464
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	15.00000					30.00000	30.00000
LOW	5.000000					10.00000	10.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	20.31451	19.75313	4864.222
SDEV	.77881	.19419	42.097
%RSD	3.833781	.9830970	.8654362
#1	21.13104	19.57088	4909.800
#2	19.57990	19.73113	4856.066
#3	20.23257	19.95739	4826.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	30.00000	30.00000	
LOW	10.00000	10.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-03 OPERATOR:
RUN TIME: 06/02/10 12:47:36
COMMENT: SDG:1005066 CLIENTID:SDZ-SD26 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.949648	16601.59	30.36015	1.383077	176611.5	-.562136	-.928533
SDEV	.236363	94.80	.30494	.061791	1950.6	.153830	.273974
%RSD	24.88956	.5710426	1.004410	4.467627	1.104439	27.36523	29.50608
#1	-1.20010	16576.08	30.00908	1.338140	177193.3	-.413718	-.700800
#2	-.918341	16706.53	30.51224	1.453541	174436.2	-.551833	-1.23257
#3	-.730498	16522.15	30.55914	1.357549	178205.0	-.720859	-.852229
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	67.99194	7.461987	22798.95	4501.195	14205.60	169.3661	42134.68
SDEV	1.25928	.266365	143.84	48.995	28.18	1.6997	213.36
%RSD	1.852107	3.569624	.6309211	1.088489	.1983936	1.003544	.5063758
#1	69.29471	7.713937	22879.59	4493.507	14227.16	171.3214	41931.52
#2	66.78119	7.183234	22632.88	4553.579	14215.92	168.2423	42356.95
#3	67.89992	7.488790	22884.39	4456.498	14173.71	168.5345	42115.57
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.32221	-4.32085	58.27767	61.82564	21.07237	1.631462	9.482485
SDEV	.58568	1.47361	.35884	1.18338	.35949	1.212421	1.977457
%RSD	4.753037	34.10459	.6157378	1.914057	1.705990	74.31502	20.85378
#1	12.93070	-3.34559	57.93029	62.35586	21.17399	2.884930	11.20921
#2	12.27356	-3.60094	58.64696	60.46987	20.67300	.4647479	7.325234
#3	11.76237	-6.01603	58.25576	62.65118	21.37011	1.544708	9.913006
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.19319	23.50226	19.85611	-16.9943	10.92779	19.35993	.7451075
SDEV	2.39126	3.73700	1.90163	.1767	1.90508	.85440	2.513678
%RSD	18.12497	15.90062	9.577059	1.039703	17.43336	4.413222	337.3578
#1	15.62502	19.41208	22.05036	-17.1880	12.90374	18.49823	.4525274
#2	13.10990	24.35656	18.83072	-16.8420	9.102533	19.37474	-1.60948
#3	10.84467	26.73815	18.68724	-16.9529	10.77708	20.20683	3.392273
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.925630	463.2111	4671.466
SDEV	.583600	.8473	56.679
%RSD	14.86639	.1829158	1.213311
#1	4.589220	464.1231	4636.600
#2	3.695445	462.4484	4640.933
#3	3.492225	463.0619	4736.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-04 OPERATOR:
RUN TIME: 06/02/10 12:54:45
COMMENT: SDG:1005066 CLIENTID:SDZ-SD27 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.438299	2689.624	14.00313	.5465189	127968.7	-1.00605	-4.17156
SDEV	.188710	85.017	.37862	.1854018	3433.4	.14065	.81843
%RSD	43.05510	3.160909	2.703851	33.92413	2.682978	13.98006	19.61925
#1	-.260892	2766.523	14.44005	.7126399	130117.6	-.952470	-3.59883
#2	-.417428	2598.328	13.77113	.3465111	124009.0	-1.16561	-5.10893
#3	-.636577	2704.023	13.79822	.5804057	129779.5	-.900062	-3.80691
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.35733	.6057508	7471.604	235.2288	5899.366	60.07012	20317.54
SDEV	.85589	.2228369	167.471	29.7467	133.106	.93428	451.12
%RSD	2.645105	36.78689	2.241433	12.64585	2.256270	1.555314	2.220346
#1	32.97334	.8630606	7609.457	262.4212	6008.256	61.09117	20640.52
#2	32.71860	.4770958	7285.230	203.4586	5750.983	59.25799	19802.12
#3	31.38004	.4770958	7520.125	239.8068	5938.857	59.86120	20510.00
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.354883	-3.38761	15.17847	20.66008	7.934918	.9567683	10.89224
SDEV	.481991	1.70255	.70287	.22800	1.753109	1.665202	.52624
%RSD	14.36684	50.25816	4.630704	1.103562	22.09360	174.0444	4.831339
#1	3.905887	-2.67293	15.98413	20.81867	7.641840	2.668041	10.54318
#2	3.011480	-2.15888	14.69074	20.39879	6.346818	.8604439	11.49752
#3	3.147281	-5.33101	14.86054	20.76277	9.816095	-.658180	10.63601
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.818549	15.08717	4.361283	-19.0940	10.96459	15.87021	-.052700
SDEV	1.026234	1.40266	2.765382	4.2602	1.66239	1.32535	1.151067
%RSD	13.12564	9.297009	63.40754	22.31152	15.16145	8.351192	2184.168
#1	6.634115	16.70194	3.115652	-17.2760	12.62251	16.43093	.1244758
#2	8.442289	14.17098	2.437800	-16.0445	9.297762	14.35666	.9995058
#3	8.379243	14.38859	7.530398	-23.9616	10.97351	16.82304	-1.28208
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.236157	79.17300	4740.999
SDEV	.669422	2.00922	106.840
%RSD	54.15350	2.537754	2.253531
#1	1.252750	80.42353	4640.667
#2	1.897128	76.85538	4853.333
#3	.5585923	80.24010	4728.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-05 OPERATOR:
RUN TIME: 06/02/10 13:01:53
COMMENT: SDG:1005066 CLIENTID:SDZ-SD29 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.438299	16352.30	29.18882	1.143188	117946.6	-.549551	-1.86624
SDEV	.072301	58.32	.22107	.137002	1491.9	.092282	.38443
%RSD	16.49572	.3566391	.7573960	11.98425	1.264909	16.79220	20.59923
#1	-.354813	16416.05	28.95791	1.106917	118518.6	-.460903	-1.51928
#2	-.480042	16339.20	29.21002	1.027970	119067.8	-.542669	-1.79994
#3	-.480042	16301.64	29.39853	1.294676	116253.3	-.645081	-2.27952
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	71.58408	5.928849	24655.55	3713.780	10273.22	159.0222	21562.78
SDEV	1.31271	.169433	173.92	49.142	38.48	1.3371	118.13
%RSD	1.833808	2.857774	.7053905	1.323242	.3745872	.8408226	.5478530
#1	70.27471	5.944931	24502.95	3697.317	10237.30	157.5996	21673.88
#2	72.90012	6.089667	24844.91	3674.983	10313.83	160.2530	21438.69
#3	71.57743	5.751948	24618.79	3769.040	10268.52	159.2141	21575.76
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.38164	-5.77017	56.21971	52.39514	17.87867	1.067096	10.57591
SDEV	.63631	.65170	.60727	.57451	.47851	1.536917	.24327
%RSD	4.755080	11.29434	1.080171	1.096502	2.676450	144.0280	2.300241
#1	12.72390	-6.23857	56.69491	52.33097	18.14220	.7167348	10.46857
#2	13.99409	-6.04605	56.42867	52.99905	18.16748	-.264392	10.40477
#3	13.42692	-5.02591	55.53555	51.85541	17.32632	2.748944	10.85439
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.70778	23.13185	15.25314	-17.5947	10.38144	15.60126	-1.53103
SDEV	1.63103	2.75089	.77019	3.4872	1.91528	.46688	1.16599
%RSD	10.38361	11.89220	5.049404	19.81972	18.44910	2.992599	76.15736
#1	13.83011	25.63317	14.39947	-14.8485	8.485142	15.55728	-2.65903
#2	16.77322	23.57675	15.46404	-21.5182	10.34403	16.08858	-.330435
#3	16.52003	20.18564	15.89591	-16.4174	12.31516	15.15793	-1.60363
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	9.753926	472.8316	4737.466
SDEV	.672482	5.0982	30.676
%RSD	6.894479	1.078238	.6475119
#1	9.985238	476.9894	4748.200
#2	10.28022	474.3621	4761.333
#3	8.996317	467.1435	4702.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-06 OPERATOR:
RUN TIME: 06/02/10 13:09:02
COMMENT: SDG:1005066 CLIENTID:SDZ-SD29D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.354813	16675.80	33.18407	1.511330	117770.8	-.811653	-1.98511
SDEV	.278263	138.08	.36355	.164422	2888.3	.087329	.67268
%RSD	78.42526	.8280207	1.095543	10.87931	2.452468	10.75936	33.88606
#1	-.667884	16660.34	33.05921	1.571335	114678.9	-.710815	-2.74751
#2	-.135664	16820.95	33.59360	1.637322	118234.0	-.861773	-1.47525
#3	-.260892	16546.10	32.89941	1.325333	120399.5	-.862372	-1.73258
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	70.36699	8.019491	24521.33	3853.169	10220.67	158.3763	21507.41
SDEV	1.22479	.426397	501.49	85.377	118.09	3.0023	97.36
%RSD	1.740567	5.317010	2.045118	2.215769	1.155427	1.895703	.4526705
#1	68.97034	8.437620	23962.90	3917.718	10087.56	154.9115	21609.41
#2	70.87260	7.585281	24667.85	3885.426	10261.58	160.0066	21497.35
#3	71.25802	8.035573	24933.25	3756.363	10312.86	160.2107	21415.47
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.09152	-4.58720	55.04761	51.89531	17.85767	1.504818	9.087273
SDEV	.07454	1.27256	.78511	2.08581	.33234	.284660	2.665587
%RSD	.5693797	27.74156	1.426243	4.019267	1.861054	18.91655	29.33319
#1	13.06913	-3.20151	54.18800	49.61988	17.74380	1.448966	10.04326
#2	13.03074	-4.85662	55.72682	52.34936	17.59724	1.252224	6.075523
#3	13.17469	-5.70348	55.22801	53.71670	18.23198	1.813264	11.14303
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.89803	22.54740	15.51346	-15.7122	10.09789	15.25755	.2749627
SDEV	.26621	4.64360	2.58756	1.8908	1.03142	1.54994	.6098430
%RSD	1.786898	20.59482	16.67946	12.03406	10.21418	10.15851	221.7911
#1	15.18645	18.75096	17.23808	-17.8680	11.09039	15.87418	.1091207
#2	14.66173	27.72483	12.53816	-14.3349	9.031530	13.49420	.9505732
#3	14.84590	21.16640	16.76415	-14.9338	10.17173	16.40428	-.234806
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.62858	494.7921	4746.999
SDEV	1.17272	.1246	58.793
%RSD	11.03368	.0251841	1.238526
#1	9.882254	494.8505	4697.533
#2	10.02321	494.8769	4731.466
#3	11.98028	494.6491	4811.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-07 OPERATOR:
RUN TIME: 06/02/10 13:16:10
COMMENT: SDG:1005066 CLIENTID:SDZ-SD17 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.751370	36330.41	51.68047	1.630951	57801.56	-.436321	1.225568
SDEV	.130342	336.06	.16817	.267221	432.64	.029807	.864775
%RSD	17.34722	.9249982	.3254067	16.38436	.7484878	6.831426	70.56113
#1	-.605270	36535.75	51.79842	1.938718	57687.59	-.470128	1.943289
#2	-.855726	35942.59	51.75509	1.496218	57437.32	-.425012	.2654648
#3	-.793112	36512.89	51.48790	1.457918	58279.78	-.413824	1.467952
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	118.3804	19.71637	47705.91	9252.820	19075.60	248.1481	50892.65
SDEV	1.8291	.34504	481.69	124.581	183.03	2.5742	216.39
%RSD	1.545100	1.750027	1.009704	1.346413	.9594956	1.037347	.4251956
#1	117.1954	19.55019	47788.08	9387.749	19081.38	248.7983	51088.77
#2	117.4588	20.11306	47188.42	9142.157	18889.74	245.3112	50660.50
#3	120.4870	19.48587	48141.22	9228.554	19255.66	250.3348	50928.69
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	27.92017	-5.34448	114.0315	115.2025	38.14587	3.180335	8.519068
SDEV	.42076	1.14071	1.9231	1.3437	1.11265	1.068309	1.646103
%RSD	1.507022	21.34371	1.686441	1.166421	2.916840	33.59108	19.32258
#1	28.05793	-4.37305	113.7738	115.4432	37.17800	3.393165	10.41440
#2	28.25479	-5.05983	112.2503	113.7546	39.36153	2.021631	7.695707
#3	27.44780	-6.60057	116.0705	116.4096	37.89809	4.126207	7.447100
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	29.12284	41.32900	36.55333	-14.8390	12.17406	15.33102	-1.53640
SDEV	1.60386	.73337	1.85171	3.8628	1.83571	2.08987	1.84244
%RSD	5.507225	1.774463	5.065783	26.03114	15.07887	13.63163	119.9196
#1	30.41813	42.10199	34.71629	-18.3498	14.24585	16.00513	.5787815
#2	27.32888	41.24200	38.41937	-15.4664	10.75008	17.00064	-2.79173
#3	29.62150	40.64302	36.52432	-10.7010	11.52625	12.98730	-2.39624
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	12.90899	746.7852	4934.044
SDEV	.51883	1.9501	54.048
%RSD	4.019131	.2611316	1.095415
#1	12.55344	744.8301	4874.866
#2	13.50434	748.7303	4980.800
#3	12.66918	746.7952	4946.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-09 OPERATOR:
RUN TIME: 06/02/10 13:23:18
COMMENT: SDG:1005066 CLIENTID:SDZ-SD23 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.761805	2424.642	10.85148	.1669523	100689.9	-.675297	-3.15481
SDEV	.205294	15.261	.13170	.1071100	1187.5	.257246	.51526
%RSD	26.94838	.6294177	1.213666	64.15604	1.179344	38.09381	16.33264
#1	-.730498	2409.647	10.70347	.1697504	100886.3	-.551536	-2.56659
#2	-.573963	2424.124	10.89526	.0584706	101766.9	-.503323	-3.37145
#3	-.980955	2440.156	10.95572	.2726358	99416.45	-.971033	-3.52638
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	35.45745	.8630603	7631.057	362.9706	6180.653	58.42391	25612.28
SDEV	.97441	.3055558	48.492	22.3404	15.707	.44065	118.96
%RSD	2.748106	35.40376	.6354573	6.154880	.2541289	.7542308	.4644547
#1	34.34438	.5575044	7622.514	347.4160	6194.267	58.42992	25540.43
#2	36.15640	.8630606	7683.253	352.9256	6184.226	58.86153	25546.83
#3	35.87157	1.168616	7587.405	388.5702	6163.468	57.98029	25749.60
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.998533	-6.34322	13.37455	21.88855	8.086263	1.919207	13.22684
SDEV	1.025526	1.91267	.41193	.39204	.835110	.902349	1.44389
%RSD	25.64755	30.15303	3.079941	1.791056	10.32752	47.01674	10.91639
#1	3.097359	-4.13472	13.51161	21.54755	8.323322	2.152196	12.80097
#2	3.783826	-7.46154	13.70048	21.80121	7.158251	2.682212	12.04378
#3	5.114415	-7.43340	12.91157	22.31689	8.777214	.9232126	14.83577
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.340138	8.821542	7.716321	-20.4533	13.08614	18.22906	-1.25662
SDEV	2.289852	5.594372	3.590742	7.0929	2.90756	1.49339	1.44398
%RSD	27.45581	63.41716	46.53439	34.67831	22.21859	8.192354	114.9103
#1	5.790830	13.42906	5.771451	-13.0431	9.735926	16.66464	-.129891
#2	9.007173	10.43889	5.517550	-21.1376	14.57173	19.63948	-.755579
#3	10.22241	2.596677	11.85996	-27.1792	14.95077	18.38308	-2.88438
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.5762484	93.94248	4768.377
SDEV	.8887567	.70784	52.348
%RSD	154.2315	.7534782	1.097824
#1	.8546076	93.17165	4808.133
#2	1.292508	94.09254	4787.933
#3	-.418370	94.56325	4709.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-10 OPERATOR:
RUN TIME: 06/02/10 13:30:26
COMMENT: SDG:1005066 CLIENTID:SDZ-SD23D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.313071	2679.151	17.18615	.7228166	101045.9	-.421641	-2.55780
SDEV	.118527	60.388	.44532	.3830817	544.3	.164410	.47918
%RSD	37.85939	2.254013	2.591153	52.99847	.5386844	38.99276	18.73407
#1	-.260892	2747.756	17.69305	1.094133	101330.2	-.231803	-2.11323
#2	-.229585	2655.656	17.00755	.7453528	100418.4	-.515282	-2.49481
#3	-.448735	2634.041	16.85787	.3289643	101389.3	-.517839	-3.06536
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.09087	1.758284	8068.315	146.9373	5511.208	62.88182	19472.52
SDEV	.20508	.269741	24.551	42.7772	72.891	.34587	397.17
%RSD	.5682361	15.34116	.3042860	29.11256	1.322604	.5500307	2.039643
#1	36.26621	1.618908	8096.588	192.8504	5595.234	63.11269	19919.93
#2	35.86536	1.586745	8055.962	139.7565	5464.957	63.04861	19336.07
#3	36.14104	2.069200	8052.393	108.2049	5473.435	62.48416	19161.57
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.061824	-6.44820	15.44063	21.55254	9.853696	1.263197	11.72665
SDEV	1.250448	2.20839	.26676	.54005	.089112	1.260015	1.37218
%RSD	40.83998	34.24813	1.727661	2.505752	.9043541	99.74805	11.70137
#1	1.684713	-8.42858	15.49840	21.15356	9.947045	2.305672	12.88240
#2	3.374487	-4.06677	15.67377	21.33698	9.769532	1.620921	10.21013
#3	4.126271	-6.84924	15.14971	22.16708	9.844511	-.137001	12.08743
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.053035	18.39018	5.588953	-15.1723	9.466049	18.58182	.5120614
SDEV	1.383907	2.82535	1.369542	4.8811	.599810	.18091	.5863448
%RSD	19.62144	15.36334	24.50444	32.17098	6.336436	.9735780	114.5067
#1	7.487911	20.71269	4.569316	-10.7134	8.802813	18.44902	1.136794
#2	5.503921	19.21314	5.051919	-14.4161	9.624866	18.50857	.4257075
#3	8.167273	15.24473	7.145624	-20.3873	9.970469	18.78786	-.026318
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.162103	92.39443	4695.800
SDEV	.614657	1.04910	123.530
%RSD	52.89175	1.135457	2.630645
#1	1.852382	93.29890	4565.866
#2	.6739955	91.24430	4709.800
#3	.9599333	92.64008	4811.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-11 OPERATOR:
RUN TIME: 06/02/10 13:37:34
COMMENT: SDG:1005066 CLIENTID:SDZ-SD22 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.594834	2469.909	14.34206	.3877866	244415.1	-.419491	-2.78087
SDEV	.160655	28.685	.09366	.1503870	3731.2	.161450	.56207
%RSD	27.00843	1.161366	.6530572	38.78085	1.526566	38.48707	20.21216
#1	-.417428	2476.510	14.25519	.5394249	243314.0	-.565058	-2.54228
#2	-.730498	2438.499	14.32970	.2386830	241358.4	-.447573	-3.42289
#3	-.636577	2494.718	14.44129	.3852520	248572.9	-.245843	-2.37745
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.30377	1.056043	11848.76	139.5369	7361.538	88.62022	22273.28
SDEV	.96199	.170195	173.34	15.1330	90.358	1.27041	243.99
%RSD	2.977958	16.11627	1.462915	10.84515	1.227432	1.433541	1.095425
#1	31.64906	.9917156	11838.48	148.3728	7365.617	88.34689	22230.33
#2	31.85398	.9273876	11680.80	122.0632	7269.209	87.50871	22053.62
#3	33.40826	1.249025	12027.01	148.1747	7449.787	90.00504	22535.89
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.490815	-7.20195	21.49246	21.41025	9.275222	1.716728	10.02873
SDEV	.215259	.75945	.46781	.56293	.693597	.695223	.47885
%RSD	8.642129	10.54503	2.176616	2.629237	7.477954	40.49699	4.774752
#1	2.611024	-7.33589	21.89895	21.35517	9.268068	.9275355	10.41632
#2	2.619123	-6.38444	20.98113	20.87688	9.972367	2.238669	9.493435
#3	2.242299	-7.88552	21.59732	21.99869	8.585229	1.983980	10.17645
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.58332	14.69771	6.565187	-18.1396	11.62749	16.98801	-.677567
SDEV	1.55710	2.81133	1.665339	2.0038	.61046	1.23542	1.519764
%RSD	7.951162	19.12768	25.36621	11.04660	5.250108	7.272329	224.2970
#1	17.78593	17.92631	4.942570	-19.7685	11.25747	15.58591	1.051381
#2	20.52227	13.37618	8.270189	-15.9020	11.29292	17.91680	-1.80230
#3	20.44175	12.79065	6.482802	-18.7484	12.33209	17.46130	-1.28178
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.6875202	77.60360	4769.955
SDEV	.5152960	1.18385	42.306
%RSD	74.94995	1.525505	.8869242
#1	.3375283	77.36139	4744.866
#2	1.279241	76.55959	4818.800
#3	.4457916	78.88982	4746.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-12 OPERATOR:
RUN TIME: 06/02/10 13:44:42
COMMENT: SDG:1005066 CLIENTID:SDZ-SD05 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.991390	42472.33	64.45094	2.519574	132211.8	-.300077	3.743595
SDEV	.203697	1368.79	1.62691	.429219	4383.8	.506266	1.691687
%RSD	20.54655	3.222781	2.524262	17.03539	3.315723	168.7119	45.18883
#1	-.980955	41364.49	63.10886	2.225226	128789.1	-.720669	3.021608
#2	-1.20010	44002.52	66.26038	3.012072	137152.9	.2618322	5.676484
#3	-.793112	42049.97	63.98358	2.321423	130693.5	-.441395	2.532693
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	145.0318	15.34746	65842.91	11973.09	23533.29	366.7821	44866.15
SDEV	6.3553	.15285	2573.72	418.53	905.63	13.7794	1309.64
%RSD	4.382016	.9959214	3.908874	3.495571	3.848280	3.756834	2.918990
#1	140.9015	15.19200	64142.41	11639.20	22966.35	358.0099	43836.60
#2	152.3501	15.49756	68803.91	12442.61	24577.75	382.6642	46340.18
#3	141.8439	15.35282	64582.41	11837.45	23055.79	359.6723	44421.68
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	37.86541	-2.35727	151.2912	118.0054	30.33584	4.358531	7.722869
SDEV	.91163	3.54382	4.4499	5.3135	2.03099	3.683479	2.329579
%RSD	2.407554	150.3360	2.941308	4.502780	6.695024	84.51193	30.16468
#1	37.53330	-2.23585	148.7317	114.9421	31.51377	8.501838	8.169262
#2	38.89654	1.124287	156.4296	124.1409	31.50309	1.454546	9.796951
#3	37.16640	-5.96023	148.7124	114.9331	27.99066	3.119209	5.202394
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	48.91679	30.22805	30.38642	-9.74907	11.39917	19.58898	-1.65770
SDEV	.56671	.75629	2.73699	5.78329	4.38166	.59271	.87914
%RSD	1.158510	2.501950	9.007293	59.32146	38.43838	3.025746	53.03385
#1	48.63040	30.18091	32.17603	-6.93266	16.20499	19.67547	-.755035
#2	49.56954	31.00681	31.74752	-16.4011	10.36629	18.95778	-2.51126
#3	48.55044	29.49644	27.23571	-5.91348	7.626226	20.13370	-1.70680

ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	34.26269	1100.494	4684.177
SDEV	1.41803	35.299	139.017
%RSD	4.138715	3.207559	2.967807
#1	33.04556	1073.736	4786.333
#2	35.81982	1140.501	4525.866
#3	33.92268	1087.245	4740.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 13:51:51
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	99.96347	47386.36	921.7341	1049.183	49023.62	984.2622	1033.193
SDEV	.50707	440.91	7.9655	6.588	225.72	7.6838	17.208
%RSD	.5072570	.9304610	.8641861	.6278906	.4604353	.7806690	1.665526
#1	99.70258	47403.01	930.7786	1048.714	49084.52	985.9376	1035.117
#2	100.5479	46937.36	915.7639	1042.842	48773.69	975.8789	1015.104
#3	99.63996	47818.71	918.6597	1055.993	49212.64	990.9700	1049.358
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	981.2855	996.9203	25419.14	52529.32	50576.18	1020.555	50250.75
SDEV	15.4356	2.5453	335.68	941.66	710.16	15.309	450.17
%RSD	1.573000	.2553206	1.320562	1.792638	1.404144	1.500087	.8958469
#1	980.9099	998.3088	25361.03	52786.92	50498.86	1021.858	50458.98
#2	966.0411	993.9827	25116.31	51485.67	49907.84	1004.636	49734.16
#3	996.9055	998.4696	25780.08	53315.38	51321.84	1035.172	50559.11
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	988.7259	1016.150	1004.670	1080.877	986.8964	1013.060	1014.187
SDEV	6.4560	11.320	19.000	12.726	9.3709	13.573	9.135
%RSD	.6529601	1.114049	1.891194	1.177377	.9495373	1.339792	.9007079
#1	987.0126	1012.426	996.2566	1076.339	981.4313	1014.363	1009.224
#2	983.2994	1007.160	991.3295	1071.042	981.5409	998.8821	1008.608
#3	995.8657	1028.863	1026.425	1095.250	997.7168	1025.934	1024.729
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1031.894	994.1613	983.2665	1028.760	1005.219	1056.199	1007.169
SDEV	6.353	10.0492	10.8970	16.877	12.089	15.237	9.491
%RSD	.6156428	1.010819	1.108245	1.640480	1.202658	1.442592	.9423463
#1	1030.911	996.6217	973.8448	1033.313	1004.899	1055.301	1012.597
#2	1026.090	983.1105	980.7545	1010.074	993.2921	1041.431	996.2101
#3	1038.681	1002.752	995.2001	1042.893	1017.464	1071.864	1012.700
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1024.184	996.5331	4754.000
SDEV	10.737	3.6825	54.528
%RSD	1.048374	.3695274	1.146988
#1	1015.219	998.0449	4733.533
#2	1021.248	992.3354	4815.800
#3	1036.083	999.2191	4712.667
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 13:59:01
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.333942	7.148927	-.042298	-.214243	387.0098	-.189545	-1.45077
SDEV	.226481	4.948347	.036178	.058682	1.1069	.181963	.85100
%RSD	67.82043	69.21804	85.53041	27.39028	.2860220	95.99956	58.65845
#1	-.448735	4.468511	-.000624	-.207592	386.6081	.0083082	-.539578
#2	-.480042	4.119047	-.065639	-.275967	386.1598	-.349717	-1.58779
#3	-.073050	12.85922	-.060632	-.159170	388.2615	-.227228	-2.22496
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.309695	-.825536	19.61518	-1440.12	16.76946	.2725221	-49.3296
SDEV	.957471	.506260	20.87665	1.29	5.17308	.1285111	56.4536
%RSD	73.10641	61.32496	106.4311	.0893910	30.84826	47.15620	114.4416
#1	.7191946	-1.24366	8.377948	-1438.63	13.20915	.1322239	11.83044
#2	.7954811	-.970272	6.764139	-1440.91	14.39582	.3008096	-99.4440
#3	2.414410	-.262671	43.70345	-1440.81	22.70340	.3845328	-60.3751
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2175421	1.569963	-.152310	1.391329	.1545823	.9909477	2.801708
SDEV	.6089081	.641724	.358645	1.262135	1.546106	.5049150	2.175520
%RSD	279.9035	40.87515	235.4707	90.71439	1000.183	50.95274	77.64979
#1	.2561811	2.256095	-.463936	.6633837	-.160197	.8614835	1.659209
#2	-.409765	.9845599	-.232703	.6618855	1.833855	1.547989	1.435456
#3	.8062106	1.469233	.2397091	2.848717	-1.20991	.5633705	5.310459
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.479116	-4.89356	2.672387	-3.35712	3.159241	-.235027	-.766211
SDEV	2.431014	8.59290	3.138974	5.68057	2.380737	.449767	1.166200
%RSD	164.3559	175.5962	117.4596	169.2095	75.35788	191.3680	152.2035
#1	.2992146	.8553687	-.669719	.2923261	1.143135	.2573130	-1.27974
#2	-.136767	-.764427	3.128573	-.461677	2.548840	-.338051	-1.58752
#3	4.274900	-14.7716	5.558308	-9.90201	5.785749	-.624344	.5686245
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.9014645	.4847182	4870.222
SDEV	.5257831	.4623878	33.419
%RSD	58.32543	95.39311	.6861903
#1	1.269819	.0962917	4832.600
#2	.2993351	.3616837	4881.600
#3	1.135239	.9961791	4896.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-13 OPERATOR:
RUN TIME: 06/02/10 14:06:10
COMMENT: SDG:1005066 CLIENTID:SDZ-SD28 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.156535	2566.667	14.13084	1.002445	110365.6	-.460599	-2.89711
SDEV	.072301	40.278	.18516	.251351	2737.4	.132799	.27320
%RSD	46.18803	1.569261	1.310343	25.07377	2.480280	28.83169	9.429977
#1	-.073050	2590.828	14.29882	1.288742	108722.9	-.612942	-2.94445
#2	-.198278	2520.170	13.93230	.9005608	108848.2	-.399565	-3.14354
#3	-.198278	2589.003	14.16139	.8180323	113525.6	-.369291	-2.60333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.73367	-.053606	7246.324	215.2477	5568.055	55.49631	20451.82
SDEV	.80130	.316368	127.188	32.9691	95.282	1.11258	188.91
%RSD	2.447933	590.1686	1.755213	15.31682	1.711223	2.004778	.9237032
#1	32.23152	-.391326	7178.730	251.6863	5576.932	55.11168	20644.45
#2	32.31172	-.005361	7167.204	187.4822	5468.645	54.62709	20266.85
#3	33.65777	.2358675	7393.038	206.5745	5658.587	56.75017	20444.17
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.386681	-4.17862	14.56917	20.05265	8.167790	.8216520	10.75356
SDEV	.838130	.80456	.55780	.76560	.499839	1.218670	1.18320
%RSD	24.74782	19.25417	3.828600	3.817972	6.119637	148.3195	11.00285
#1	2.504042	-4.73388	14.77880	19.22578	8.572219	-.168381	9.393622
#2	3.484239	-4.54604	13.93693	20.19522	7.608971	2.182713	11.54704
#3	4.171763	-3.25595	14.99177	20.73694	8.322181	.4506245	11.32001
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.983440	18.04378	3.234212	-17.8401	10.13590	17.29925	-1.18360
SDEV	1.309253	2.95134	1.084610	.8773	1.74095	1.10669	.61784
%RSD	16.39961	16.35652	33.53552	4.917475	17.17608	6.397347	52.19999
#1	7.585991	21.45164	2.139117	-17.3785	8.421088	16.10669	-1.85176
#2	6.918967	16.32311	3.255497	-17.2900	11.90186	17.49788	-.632974
#3	9.445362	16.35661	4.308023	-18.8518	10.08474	18.29318	-1.06605
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.432091	84.77554	4559.977
SDEV	.981204	1.16265	87.231
%RSD	40.34404	1.371445	1.912964
#1	3.301069	84.68410	4462.933
#2	1.367984	83.66131	4631.866
#3	2.627218	85.98121	4585.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-14 OPERATOR:
RUN TIME: 06/02/10 14:13:18
COMMENT: SDG:1005066 CLIENTID:SDZ-SD08 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.876598	57824.57	82.53124	2.571217	279515.2	.1853752	4.638811
SDEV	.213103	428.00	1.06896	.112166	2179.2	.2709209	.551493
%RSD	24.31021	.7401673	1.295215	4.362388	.7796262	146.1473	11.88866
#1	-.949648	58230.27	83.73438	2.700010	279362.5	.2062578	4.929915
#2	-1.04357	57377.31	82.16846	2.494960	277416.4	-.095383	4.002761
#3	-.636577	57866.13	81.69089	2.518681	281766.8	.4452505	4.983755
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	162.6751	34.37767	68939.92	12987.51	27971.36	503.7627	43180.29
SDEV	.6745	.20532	289.31	78.13	105.37	.7535	144.27
%RSD	.4146210	.5972462	.4196490	.6016092	.3766947	.1495815	.3340994
#1	162.4717	34.42592	69082.85	13077.70	28068.06	504.0485	43256.88
#2	162.1257	34.15253	68606.97	12944.50	27859.07	502.9081	43013.89
#3	163.4279	34.55457	69129.95	12940.34	27986.95	504.3316	43270.12
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	39.16264	-4.85394	173.2194	165.9288	62.06367	1.492932	7.961301
SDEV	.29435	2.37031	1.1283	1.8340	.49290	.816785	2.357439
%RSD	.7516183	48.83274	.6513737	1.105287	.7941890	54.71015	29.61123
#1	39.36031	-4.71750	172.0300	164.1485	62.49195	1.296800	10.32172
#2	38.82435	-2.55480	173.3536	165.8256	62.17416	2.389926	5.606857
#3	39.30325	-7.28953	174.2746	167.8122	61.52490	.7920689	7.955321
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	42.34440	62.59344	61.79537	-13.0124	8.732162	17.63073	-.714897
SDEV	2.70559	1.01941	.43127	1.6005	1.972213	1.46597	1.470418
%RSD	6.389498	1.628628	.6979023	12.29967	22.58562	8.314838	205.6826
#1	45.45703	63.76278	61.85366	-11.8622	7.863878	16.12054	.5274391
#2	40.55590	62.12575	62.19453	-14.8402	10.98954	19.04806	-.333777
#3	41.02027	61.89178	61.33792	-12.3347	7.343067	17.72358	-2.33835
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.75953	1111.539	4763.777
SDEV	1.00343	8.116	27.288
%RSD	9.325943	.7301580	.5728226
#1	9.601262	1106.626	4734.400
#2	11.31273	1107.084	4788.333
#3	11.36460	1120.907	4768.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-15 OPERATOR:
RUN TIME: 06/02/10 14:20:26
COMMENT: SDG:1005066 CLIENTID:SDZ-SD07 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.626141	23003.77	41.35567	1.489827	162771.2	-.579185	-.757826
SDEV	.208453	183.42	.21764	.088308	1789.3	.211853	.105030
%RSD	33.29164	.7973455	.5262600	5.927431	1.099283	36.57775	13.85944
#1	-.855726	23139.79	41.51147	1.388566	164751.7	-.525613	-.684818
#2	-.448735	22795.16	41.10700	1.550849	161271.1	-.399260	-.878198
#3	-.573963	23076.35	41.44853	1.530067	162291.0	-.812681	-.710464
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	78.63092	22.10185	28051.44	5382.833	13758.11	187.8614	33366.23
SDEV	1.38565	.28962	190.76	46.906	115.62	1.3318	147.49
%RSD	1.762214	1.310397	.6800274	.8713999	.8403646	.7089516	.4420194
#1	79.46949	21.76949	28232.33	5345.492	13849.73	188.9493	33404.85
#2	77.03155	22.23586	27852.15	5367.529	13628.20	186.3761	33203.27
#3	79.39173	22.30019	28069.86	5435.480	13796.40	188.2587	33490.56
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.69572	-3.79457	69.95716	77.40109	27.99808	.3027748	9.313770
SDEV	.22101	.44430	1.67376	.93820	.50930	.8607696	1.130706
%RSD	1.408091	11.70875	2.392552	1.212123	1.819052	284.2936	12.14015
#1	15.60539	-3.90681	71.73930	77.52262	27.70610	1.146972	8.836345
#2	15.94759	-3.30492	68.41843	78.27260	27.70198	.3350141	10.60488
#3	15.53419	-4.17199	69.71375	76.40805	28.58617	-.573661	8.500084
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.81248	30.15585	26.91765	-20.3537	10.61293	17.69869	-.087402
SDEV	2.31682	2.30575	.97864	1.2987	.66182	1.43756	.184988
%RSD	13.78038	7.646127	3.635685	6.380646	6.236003	8.122403	211.6517
#1	17.19987	31.38496	25.86617	-19.2377	11.32140	18.77812	.1261542
#2	14.32638	27.49594	27.80191	-20.0444	10.50682	16.06687	-.198159
#3	18.91119	31.58666	27.08488	-21.7792	10.01058	18.25108	-.190202
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	5.274827	671.0196	4623.155
SDEV	.318652	4.8739	23.622
%RSD	6.040988	.7263383	.5109544
#1	4.919214	676.4267	4639.466
#2	5.370822	666.9642	4633.933
#3	5.534447	669.6681	4596.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-16 OPERATOR:
RUN TIME: 06/02/10 14:27:35
COMMENT: SDG:1005066 CLIENTID:SDZ-SD06 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.678320	17861.54	35.73180	1.017083	147461.6	-.454556	-.393665
SDEV	.266263	261.21	.33533	.074837	2769.1	.239383	.588649
%RSD	39.25339	1.462404	.9384681	7.358028	1.877848	52.66302	149.5306
#1	-.667884	17599.96	36.11221	1.079872	144413.7	-.663589	-.846493
#2	-.949648	18122.38	35.60418	.9342708	149822.6	-.193409	.2717459
#3	-.417428	17862.28	35.47902	1.037107	148148.6	-.506668	-.606247
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	72.24683	7.349414	24957.45	3444.992	10713.31	174.2016	20260.24
SDEV	1.56769	.112956	380.83	40.905	141.65	2.5850	147.63
%RSD	2.169909	1.536934	1.525922	1.187388	1.322187	1.483917	.7286900
#1	70.79661	7.231480	24566.77	3410.421	10563.90	171.5312	20111.09
#2	73.91018	7.456627	25327.60	3490.151	10845.66	176.6918	20406.31
#3	72.03368	7.360136	24977.98	3434.405	10730.37	174.3818	20263.31
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.76977	-5.77856	62.40151	61.90412	21.22011	.6886858	8.642302
SDEV	1.17596	1.77446	1.23949	1.55629	.34031	1.933804	1.943974
%RSD	8.540170	30.70758	1.986311	2.514035	1.603692	280.7962	22.49371
#1	12.47679	-4.29540	60.97138	60.13280	21.46547	1.122815	6.397615
#2	14.77547	-7.74443	63.06797	62.52731	21.36325	-1.42528	9.772870
#3	14.05706	-5.29585	63.16519	63.05223	20.83162	2.368526	9.756424
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.01715	25.34867	19.15581	-15.5260	8.781379	17.36546	-1.17257
SDEV	1.56222	2.07177	.99590	3.1534	1.811308	.64790	1.48807
%RSD	15.59542	8.173106	5.198960	20.31017	20.62670	3.730945	126.9059
#1	8.387581	27.59750	18.40095	-12.9597	8.151054	18.06218	-2.82359
#2	11.50193	23.51762	20.28455	-19.0462	7.369446	17.25311	-.759304
#3	10.16194	24.93090	18.78194	-14.5721	10.82364	16.78109	.0651745
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	8.497398	677.9233	4862.955
SDEV	.254890	4.5947	25.962
%RSD	2.999629	.6777551	.5338674
#1	8.204042	672.6251	4886.533
#2	8.623445	680.8111	4835.133
#3	8.664709	680.3339	4867.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-17 OPERATOR:
RUN TIME: 06/02/10 14:34:43
COMMENT: SDG:1005066 CLIENTID:SDZ-SD09 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.855726	34550.61	53.43402	1.240484	83866.00	-.444550	-.071151
SDEV	.281764	1121.36	2.32769	.278916	2564.94	.046248	.599332
%RSD	32.92683	3.245560	4.356201	22.48444	3.058379	10.40344	842.3328
#1	-1.13749	35538.45	55.09011	1.434371	86344.55	-.399003	.4686656
#2	-.573963	33331.72	50.77262	.9208297	81222.62	-.491469	-.716089
#3	-.855726	34781.64	54.43933	1.366250	84030.84	-.443177	.0339689
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	112.2229	17.84551	44930.09	8526.302	18476.31	279.6906	51000.88
SDEV	3.0892	.41064	1220.03	259.913	535.22	6.6598	1436.99
%RSD	2.752757	2.301081	2.715387	3.048372	2.896776	2.381143	2.817578
#1	114.1271	17.94201	46076.15	8684.893	18977.98	285.2887	52037.06
#2	108.6586	17.39522	43647.57	8226.345	17912.90	272.3254	49360.43
#3	113.8831	18.19931	45066.54	8667.669	18538.04	281.4576	51605.14
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	26.52198	-6.58906	119.8561	117.8651	35.82885	3.249827	9.446802
SDEV	1.02208	.67657	3.2569	2.3394	2.43278	.808084	3.164041
%RSD	3.853711	10.26804	2.717329	1.984803	6.790009	24.86543	33.49325
#1	27.36731	-6.67878	123.4025	119.8388	38.63078	2.803568	8.080371
#2	25.38607	-5.87211	116.9990	115.2810	34.60204	2.763282	7.195601
#3	26.81255	-7.21630	119.1668	118.4756	34.25374	4.182632	13.06443
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	27.52816	36.95010	35.26574	-14.7895	12.25354	17.45547	-2.70241
SDEV	1.16593	2.74546	2.30102	2.4576	.33809	.33013	.89050
%RSD	4.235411	7.430171	6.524804	16.61732	2.759159	1.891262	32.95205
#1	26.34617	40.11067	37.88856	-16.7784	12.57743	17.47569	-3.53400
#2	28.67734	35.15620	34.32214	-15.5480	11.90284	17.77503	-1.76285
#3	27.56096	35.58344	33.58650	-12.0420	12.28035	17.11570	-2.81036
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	26.70771	843.3438	4991.889
SDEV	2.17570	26.3784	129.895
%RSD	8.146335	3.127830	2.602112
#1	29.14739	864.1373	4908.266
#2	24.96862	813.6716	5141.533
#3	26.00710	852.2223	4925.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-18 OPERATOR:
RUN TIME: 06/02/10 14:41:52
COMMENT: SDG:1005066 CLIENTID:SDZ-SD09D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.563527	40188.76	56.65064	2.324818	94370.12	-.371926	1.510506
SDEV	.422742	947.42	1.31585	.290839	1863.44	.171804	.318533
%RSD	75.01715	2.357432	2.322751	12.51019	1.974604	46.19310	21.08782
#1	-.980955	41273.74	58.16936	2.552316	92349.81	-.398022	1.210472
#2	-.135664	39524.94	55.85176	2.425010	94739.06	-.529189	1.476273
#3	-.573963	39767.60	55.93078	1.997128	96021.49	-.188567	1.844772
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	123.2817	19.29288	50482.87	10054.47	20397.07	314.3698	52155.80
SDEV	1.6742	.14294	743.71	392.97	58.28	2.5915	1119.23
%RSD	1.358055	.7408888	1.473190	3.908366	.2857361	.8243499	2.145941
#1	121.7739	19.13206	49676.31	10502.04	20348.79	312.0458	53401.81
#2	122.9877	19.40545	50630.82	9895.344	20380.60	313.8992	51829.92
#3	125.0834	19.34113	51141.48	9766.025	20461.81	317.1643	51235.67
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	29.17843	-4.62711	129.1481	115.1850	37.39315	3.498104	7.625807
SDEV	2.01720	2.93028	.2348	4.6533	1.76632	1.356220	1.787546
%RSD	6.913319	63.32856	.1817817	4.039865	4.723649	38.77014	23.44075
#1	26.86556	-1.32991	129.3486	109.8880	38.32326	4.928180	6.777224
#2	30.09592	-5.61775	128.8898	117.0521	35.35613	2.230351	6.420605
#3	30.57379	-6.93367	129.2057	118.6147	38.50005	3.335781	9.679593
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.58291	45.02296	33.58054	-8.76711	9.618944	20.30123	1.985188
SDEV	1.83019	2.31772	3.72984	2.67043	2.048958	2.57997	1.199873
%RSD	6.403106	5.147868	11.10716	30.45967	21.30128	12.70845	60.44128
#1	27.21568	42.91363	36.02819	-6.68492	10.72335	18.40656	1.158027
#2	27.87096	47.50412	29.28776	-7.83854	7.254713	23.23953	3.361342
#3	30.66210	44.65113	35.42566	-11.7779	10.87877	19.25761	1.436193
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	24.45379	907.5516	4704.400
SDEV	2.31994	10.0529	154.641
%RSD	9.487027	1.107690	3.287156
#1	25.41828	917.9293	4528.066
#2	26.13589	906.8672	4768.200
#3	21.80719	897.8585	4816.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-19 OPERATOR:
RUN TIME: 06/02/10 14:49:00
COMMENT: SDG:1005066 CLIENTID:SDZ-SD03 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.417428	30934.83	45.49985	1.489293	H701859.5	1.005547	4.527847
SDEV	.250457	58.88	.23169	.115588	14679.2	.143439	.488563
%RSD	60.00000	.1903378	.5092190	7.761243	2.091472	14.26477	10.79018
#1	-.166971	30872.06	45.41494	1.574287	686821.5	1.092443	4.082799
#2	-.667884	30943.60	45.32258	1.357675	H702605.5	.8399859	4.450133
#3	-.417428	30988.84	45.76202	1.535917	H716151.4	1.084210	5.050609
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	85.23519	15.57797	39369.55	7130.917	17969.29	279.3770	39290.06
SDEV	1.30102	.34902	463.71	27.833	138.43	4.0078	128.35
%RSD	1.526390	2.240459	1.177834	.3903159	.7703939	1.434545	.3266667
#1	83.86117	15.80312	38875.58	7160.353	17822.61	275.4441	39164.23
#2	86.44823	15.75487	39437.59	7127.370	17987.62	283.4557	39285.16
#3	85.39619	15.17592	39795.48	7105.027	18097.65	279.2312	39420.79
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	20.88918	-6.79982	87.47428	125.5925	32.10460	1.748507	12.17307
SDEV	.52278	2.79348	.27178	2.9489	1.65412	2.789920	.58142
%RSD	2.502615	41.08170	.3106957	2.347965	5.152290	159.5602	4.776240
#1	20.39491	-5.74259	87.24040	122.6070	30.39617	-1.12714	12.83786
#2	20.83622	-9.96761	87.77244	125.6673	33.69846	4.443967	11.92184
#3	21.43642	-4.68926	87.41001	128.5033	32.21917	1.928691	11.75951
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.95053	36.96779	29.67303	-21.8950	13.54989	17.14661	.0595673
SDEV	2.59939	1.36246	1.80526	4.9053	2.02284	.84417	1.308696
%RSD	11.84203	3.685535	6.083828	22.40391	14.92883	4.923238	2197.004
#1	24.26809	35.49265	27.84814	-25.8628	11.21954	16.26897	.1368346
#2	22.44356	38.17893	31.45799	-16.4104	14.85291	17.21809	1.327918
#3	19.13993	37.23180	29.71296	-23.4116	14.57720	17.95276	-1.28605
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	8.035747	679.6140	4608.911
SDEV	.411999	3.9649	30.165
%RSD	5.127082	.5834042	.6545000
#1	7.877637	675.0358	4613.800
#2	8.503382	681.9269	4636.333
#3	7.726222	681.8793	4576.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-20 OPERATOR:
RUN TIME: 06/02/10 14:56:09
COMMENT: SDG:1005066 CLIENTID:SDZ-SD02 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.657448	39161.02	49.22099	1.620274	5836.075	-.590785	-.551790
SDEV	.157575	87.54	.55304	.166901	60.761	.350248	.365861
%RSD	23.96773	.2235449	1.123593	10.30080	1.041119	59.28519	66.30437
#1	-.824419	39072.83	48.58961	1.510786	5851.246	-.651414	-.290461
#2	-.511349	39162.32	49.45379	1.537667	5887.812	-.214181	-.394993
#3	-.636577	39247.90	49.61958	1.812369	5769.167	-.906762	-.969917
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	94.85516	22.13401	47079.58	6971.772	11764.23	225.8781	21560.79
SDEV	.62896	.13677	232.97	114.367	18.13	1.4895	144.38
%RSD	.6630707	.6179390	.4948355	1.640425	.1540887	.6594352	.6696607
#1	95.38914	22.26803	47071.20	6888.958	11773.74	225.4431	21394.69
#2	95.01446	22.13937	47316.62	6924.094	11775.62	227.5366	21656.26
#3	94.16187	21.99463	46850.91	7102.264	11743.33	224.6544	21631.43
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	23.91405	-7.74869	86.07084	129.9319	54.52208	4.637982	11.01437
SDEV	1.06932	2.94331	.74161	1.3150	1.59451	1.185157	1.84944
%RSD	4.471497	37.98458	.8616324	1.012080	2.924521	25.55330	16.79114
#1	23.53325	L-10.5503	86.85353	130.8438	52.80777	4.901004	11.23997
#2	25.12164	-4.68166	85.37860	130.5274	55.96089	3.343409	12.74065
#3	23.08725	-8.01412	85.98038	128.4245	54.79758	5.669533	9.062476
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.93490	55.10027	54.22995	-12.4802	13.18170	17.44314	-.819772
SDEV	2.48029	1.06458	2.90764	4.5302	1.15663	2.04435	1.160199
%RSD	11.30751	1.932077	5.361694	36.29897	8.774499	11.72009	141.5269
#1	19.32043	56.09269	51.16433	-9.01751	11.84732	15.09547	-2.01067
#2	24.25468	53.97584	56.94846	-17.6071	13.80043	18.83081	-.755714
#3	22.22958	55.23228	54.57705	-10.8159	13.89736	18.40313	.3070703
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	7.744632	713.3222	4784.933
SDEV	1.003100	2.2441	35.674
%RSD	12.95220	.3145978	.7455537
#1	8.646856	715.0909	4818.400
#2	6.664470	714.0779	4788.999
#3	7.922570	710.7978	4747.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-BLK1 OPERATOR:
RUN TIME: 06/02/10 15:04:09
COMMENT: SDG:1005129 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1043569	11.56384	.1703268	.0847110	446.8289	-.734824	-3.37048
SDEV	.1265260	15.07158	.0898365	.2762444	22.4307	.106218	.25624
%RSD	121.2435	130.3337	52.74359	326.1022	5.019966	14.45487	7.602349
#1	.1774067	27.77035	.2620952	.3526479	468.9496	-.616151	-3.07488
#2	.1774067	8.952770	.1663295	.1006368	447.4364	-.767333	-3.50723
#3	-.041743	-2.03161	.0825557	-.199152	424.1006	-.820988	-3.52934
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.180621	1.291910	9.771695	-1423.01	15.62322	.6382651	279.0904
SDEV	.274966	2.499493	6.595350	4.69	5.05023	.1947270	38.5814
%RSD	23.28994	193.4727	67.49443	.3293852	32.32516	30.50880	13.82397
#1	1.467509	-.053606	17.32656	-1419.91	21.42363	.8553471	319.3702
#2	.9193734	-.246588	6.825922	-1420.72	12.20220	.5804705	275.4328
#3	1.154981	4.175925	5.162603	-1428.40	13.24382	.4789779	242.4680
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3272713	-.240616	.2850505	2.446579	2.483839	1.754082	3.471265
SDEV	.6207632	1.256944	.1282631	.608792	1.034630	.661846	2.579435
%RSD	189.6785	522.3859	44.99664	24.88339	41.65448	37.73178	74.30821
#1	.5306458	-1.21787	.1372015	2.957655	2.485631	1.502969	6.414937
#2	-.369669	-.681312	.3665213	2.609045	H3.517572	2.504736	2.392600
#3	.8208371	1.177334	.3514286	1.773036	1.448314	1.254541	1.606259
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.85287	4.359891	1.544670	-6.15027	5.697786	6.431526	-.335384
SDEV	.50269	.867833	1.289924	2.92938	.871749	3.538154	1.043681
%RSD	17.62051	19.90493	83.50803	47.63009	15.29979	55.01268	311.1896
#1	-2.88846	5.084512	1.185554	-8.90960	6.698866	10.13092	-.316290
#2	-3.33682	4.597020	2.976098	-3.07625	5.288488	6.083281	-1.38848
#3	-2.33333	3.398140	.4723576	-6.46497	5.106002	3.080370	.6986186
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.096435	-.069373	4741.222
SDEV	.117244	.092122	75.465
%RSD	121.5787	132.7927	1.591676
#1	-.085280	-.082223	4676.400
#2	.0148334	-.154395	4723.200
#3	-.218858	.0284995	4824.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-BS1 OPERATOR:
RUN TIME: 06/02/10 15:11:17
COMMENT: SDG:1005129 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	781.6957	68370.38	1316.572	1339.895	39322.40	2070.715	646.2380
SDEV	4.8756	1001.35	4.534	15.535	495.05	28.067	7.2073
%RSD	.6237175	1.464591	.3443960	1.159411	1.258956	1.355429	1.115272
#1	778.0642	69196.14	1321.695	1357.825	39873.43	2097.553	654.3155
#2	787.2371	67256.59	1314.944	1330.470	39178.63	2073.029	643.9344
#3	779.7860	68658.43	1313.076	1331.389	38915.15	2041.563	640.4641
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1110.000	108000.0	1840.000	1690.000	52200.00	2770.000	811.0000
LOW	490.0000	43900.00	1280.000	1170.000	34200.00	1880.000	561.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	557.0120	1349.199	117945.3	24337.72	19189.77	2815.336	3961.962
SDEV	4.7092	6.152	1254.5	335.59	249.38	14.446	74.394
%RSD	.8454432	.4560093	1.063668	1.378903	1.299550	.5131234	1.877699
#1	561.7979	1343.394	119216.6	24428.86	19463.88	2829.389	4047.773
#2	556.8545	1348.556	117911.2	23965.97	19129.12	2800.526	3915.618
#3	552.3834	1355.648	116708.2	24618.33	18976.30	2816.093	3922.496
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	738.0000	1540.000	214000.0	30600.00	27300.00	3650.000	6580.000
LOW	477.0000	1080.000	74200.00	17000.00	17100.00	2430.000	2540.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	450.1299	1420.950	637.6793	1050.239	669.0637	689.9962	455.7156
SDEV	3.5209	12.549	9.9140	17.934	8.5105	7.2485	3.6419
%RSD	.7822034	.8831093	1.554696	1.707656	1.272000	1.050507	.7991670
#1	452.8639	1434.059	648.9875	1064.026	678.1382	697.6232	459.8219
#2	451.3688	1409.050	630.4825	1056.727	667.7926	683.1974	454.4482
#3	446.1569	1419.741	633.5678	1029.963	661.2603	689.1680	452.8766
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	1970.000	930.0000	1410.000	918.0000	1030.000	1730.000
LOW	404.0000	1190.000	517.0000	905.0000	619.0000	626.0000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	723.5257	665.4613	670.8594	685.7849	692.0961	1625.227	-1.12591
SDEV	5.5702	17.7428	3.9151	11.0190	5.9978	13.600	2.82155
%RSD	.7698666	2.666239	.5835878	1.606776	.8666132	.8368258	250.6010
#1	729.1233	684.1263	675.1457	698.4716	697.1970	1640.685	-1.67158
#2	717.9833	663.4445	669.9605	678.6028	685.4887	1619.899	1.928619
#3	723.4704	648.8130	667.4719	680.2802	693.6027	1615.098	-3.63478
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	NOCHECK
HIGH	973.0000					2280.000	
LOW	645.0000					1220.000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	552.4993	2609.842	5148.333
SDEV	2.7660	16.995	57.044
%RSD	.5006300	.6511770	1.108005
#1	555.3281	2627.354	5096.866
#2	552.3689	2593.416	5209.667
#3	549.8008	2608.755	5138.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	705.0000	4510.000	
LOW	463.0000	1110.000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 15:18:26
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	99.39995	47307.47	936.4969	1038.575	48010.47	975.5024	1022.937
SDEV	2.63005	750.94	22.1135	7.859	580.79	4.5507	8.155
%RSD	2.645923	1.587364	2.361295	.7567123	1.209713	.4664983	.7971742
#1	97.66762	47564.56	954.1358	1030.109	47340.82	972.0560	1018.877
#2	98.10592	47896.11	943.6667	1045.638	48313.86	980.6608	1032.324
#3	102.4263	46461.75	911.6882	1039.980	48376.74	973.7903	1017.608
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	964.9228	1003.085	25144.12	53417.13	50277.36	1010.371	50409.26
SDEV	21.8692	10.660	365.47	1823.62	772.28	16.841	947.20
%RSD	2.266415	1.062695	1.453508	3.413924	1.536035	1.666817	1.879021
#1	942.4335	993.7416	24923.55	54584.01	50377.75	993.3818	50725.23
#2	986.1140	1000.818	25565.98	54351.71	50994.54	1027.060	51158.09
#3	966.2210	1014.696	24942.81	51315.67	49459.80	1010.673	49344.46
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	984.4536	1022.127	984.3274	1058.774	980.9557	1022.938	1020.563
SDEV	3.7241	5.353	8.1463	11.857	13.0721	18.642	8.339
%RSD	.3782907	.5237530	.8276051	1.119891	1.332593	1.822359	.8171048
#1	981.2258	1025.420	977.2145	1045.090	974.3655	1031.810	1017.502
#2	988.5282	1025.012	993.2147	1065.224	996.0113	1035.486	1030.000
#3	983.6069	1015.950	982.5532	1066.008	972.4905	1001.517	1014.187
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1041.167	981.2017	980.8299	1044.036	1012.402	1049.979	1016.697
SDEV	8.826	14.5335	13.5486	27.311	16.345	11.580	17.985
%RSD	.8477061	1.481190	1.381344	2.615892	1.614433	1.102917	1.768945
#1	1045.435	981.5551	970.7721	1067.347	1014.065	1051.487	1029.975
#2	1047.048	995.5552	996.2364	1050.774	1027.851	1060.732	1023.886
#3	1031.018	966.4947	975.4811	1013.987	995.2893	1037.719	996.2292
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1027.418	989.1396	4732.444
SDEV	5.646	5.7585	168.830
%RSD	.5495645	.5821745	3.567500
#1	1027.250	982.6667	4618.999
#2	1033.147	991.0580	4651.866
#3	1021.858	993.6940	4926.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 15:25:35
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.187842	-.102744	.0440572	-.276903	390.6731	-.171098	-2.54705
SDEV	.078788	2.601485	.0483937	.086977	.2153	.235202	.10943
%RSD	41.94353	2532.008	109.8430	31.41055	.0551125	137.4666	4.296417
#1	-.104357	2.885703	.0838127	-.178329	390.5579	-.353052	-2.52608
#2	-.260892	-1.33313	-.009829	-.309537	390.9215	-.254734	-2.66544
#3	-.198278	-1.86081	.0581879	-.342843	390.5399	.0944923	-2.44961
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.147561	-1.04532	6.846028	-1429.90	19.56473	.3248789	10.78272
SDEV	.255060	.06499	4.404439	2.16	.56168	.0988523	6.57113
%RSD	172.8509	6.217616	64.33569	.1508371	2.870870	30.42742	60.94129
#1	.1074742	-1.11501	10.17493	-1427.53	20.08305	.3821988	17.33476
#2	-.402646	-1.03460	1.851728	-1431.76	19.64320	.3817033	10.82073
#3	-.147511	-.986355	8.511423	-1430.40	18.96795	.2107345	4.192666
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.003255	6.118177	.1071846	1.124456	.3956385	2.352782	-1.71071
SDEV	.202005	1.422299	.2295919	.001658	.6159469	.966620	.41114
%RSD	6205.493	23.24711	214.2023	.1474294	155.6843	41.08414	24.03315
#1	.1984915	4.501780	.3376805	1.125954	.9794633	3.435437	-1.23666
#2	-.205518	7.178129	.1053658	1.124741	.4555101	1.576404	-1.96981
#3	-.002739	6.674622	-.121492	1.122675	-.248058	2.046505	-1.92568
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.73693	1.243277	-.029997	2.560854	2.246450	-.453995	-.360337
SDEV	1.02901	1.205859	1.209373	.928764	1.216211	2.112090	2.138231
%RSD	59.24289	96.99036	4031.626	36.26773	54.13924	465.2234	593.3972
#1	-1.09191	.2136706	1.359329	3.003772	3.648489	-1.72309	1.479586
#2	-1.19525	2.569887	-.602547	1.493541	1.615320	1.984152	-2.70615
#3	-2.92363	.9462747	-.846774	3.185249	1.475542	-1.62305	.1455501
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.747682	.1397695	4929.044
SDEV	1.102448	.1112730	12.574
%RSD	63.08059	79.61182	.2551088
#1	2.901984	.2506154	4919.400
#2	.7056854	.0280742	4924.466
#3	1.635376	.1406188	4943.266
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-05RE1 OPERATOR:
RUN TIME: 06/02/10 15:32:44
COMMENT: SDG:1005129 CLIENTID:SS53-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.093921	14186.37	28.33144	.1290687	826.1967	-.971552	-5.25740
SDEV	.172426	73.85	.31785	.0975421	2.2526	.163203	.34287
%RSD	183.5857	.5206047	1.121885	75.57381	.2726462	16.79820	6.521706
#1	-.260892	14104.43	28.18594	.1188602	828.5206	-1.15907	-4.86866
#2	.0834855	14247.82	28.11239	.0370323	826.0466	-.861536	-5.38681
#3	-.104357	14206.84	28.69599	.2313136	824.0230	-.894054	-5.51674
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.59858	4.358186	7438.048	-939.658	491.1613	25.80094	473.6678
SDEV	.49611	.156196	27.183	4.640	1.1069	.22794	55.9404
%RSD	3.648268	3.583970	.3654534	.4938185	.2253629	.8834513	11.81004
#1	13.03451	4.224170	7439.735	-943.576	491.6820	25.55720	482.3345
#2	13.96717	4.529726	7410.061	-940.864	489.8901	25.83676	413.8999
#3	13.79407	4.320662	7464.348	-934.534	491.9118	26.00884	524.7690
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.405473	-2.51701	17.80184	22.06472	25.80513	.7936884	10.55294
SDEV	.360892	.69615	.33986	.27253	.61115	1.119671	1.16153
%RSD	8.191900	27.65783	1.909146	1.235142	2.368315	141.0719	11.00668
#1	4.772830	-1.98071	17.51972	22.32637	25.58485	.4332542	11.42363
#2	4.392177	-2.26660	18.17915	21.78248	26.49588	2.049186	11.00110
#3	4.051413	-3.30373	17.70665	22.08530	25.33467	-.101375	9.234096
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.276839	30.75252	23.33227	-19.1297	10.73787	15.65502	-.999794
SDEV	1.224370	1.36182	.28022	4.2594	2.22220	1.43728	.478523
%RSD	95.89071	4.428317	1.200997	22.26616	20.69495	9.180968	47.86215
#1	.7213154	29.98704	23.38417	-24.0390	12.64848	14.06465	-.963400
#2	.4287113	32.32484	23.58291	-16.4170	11.26591	16.86109	-.540507
#3	2.680490	29.94569	23.02973	-16.9329	8.299212	16.03933	-1.49547
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.294954	280.1945	4731.066
SDEV	.315327	1.9474	15.557
%RSD	13.74002	.6950220	.3288216
#1	2.294646	279.9648	4732.600
#2	2.610436	282.2466	4745.800
#3	1.979782	278.3721	4714.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-DUP1 OPERATOR:
RUN TIME: 06/02/10 15:39:52
COMMENT: SDG:1005129 CLIENTID:SS53-0-1D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.177407	13351.21	37.80114	-.003248	754.8266	-1.14745	-5.57031
SDEV	.130342	97.16	.60395	.109096	7.0917	.16901	.30451
%RSD	73.47057	.7277442	1.597711	3358.490	.9395204	14.72891	5.466578
#1	-.073050	13239.02	37.30820	.0697955	746.7974	-1.07376	-5.90848
#2	-.135664	13406.08	38.47483	.0491138	757.4475	-1.34079	-5.48461
#3	-.323506	13408.52	37.62039	-.128654	760.2349	-1.02780	-5.31783
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.99635	5.869882	7097.395	-932.194	471.1930	21.47738	450.7491
SDEV	.58625	.133908	136.072	.961	8.5559	.33844	68.2271
%RSD	4.510847	2.281277	1.917214	.1030743	1.815790	1.575797	15.13637
#1	12.31983	5.977095	6940.438	-933.039	461.3698	21.12203	504.0415
#2	13.35529	5.912767	7169.613	-931.148	477.0164	21.51420	474.3510
#3	13.31392	5.719785	7182.132	-932.394	475.1928	21.79590	373.8548
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.411392	-3.83963	17.17402	23.19799	28.80040	3.325956	8.030456
SDEV	.665610	2.25552	.37374	.41351	1.13242	2.397293	.157399
%RSD	19.51139	58.74321	2.176205	1.782534	3.931975	72.07831	1.960025
#1	4.103790	-3.92159	16.80726	22.96873	29.28579	1.938278	8.125878
#2	3.354116	-6.05305	17.55438	22.94988	29.60922	6.094109	8.116706
#3	2.776272	-1.54424	17.16041	23.67534	27.50619	1.945482	7.848785
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.231089	34.62087	25.89172	-13.1869	11.56749	15.03260	-1.17458
SDEV	1.004999	.77931	1.31747	.9821	3.29023	.84902	.63494
%RSD	81.63496	2.250972	5.088381	7.447381	28.44378	5.647865	54.05700
#1	.3620364	35.10427	26.37811	-12.8275	9.307621	15.89532	-1.59142
#2	.9995944	35.03648	26.89683	-12.4351	15.34230	14.19798	-.443822
#3	2.331635	33.72185	24.40020	-14.2980	10.05255	15.00450	-1.48849
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.133950	271.9294	4820.022
SDEV	.449918	4.0288	14.502
%RSD	39.67703	1.481550	.3008606
#1	.6303061	267.6965	4834.400
#2	1.496149	275.7171	4805.400
#3	1.275394	272.3745	4820.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-MS1 OPERATOR:
RUN TIME: 06/02/10 15:47:00
COMMENT: SDG:1005129 CLIENTID:SS53-0-1S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	47.80589	20694.03	1881.707	50.80429	827.8752	47.45578	506.4593
SDEV	.53984	731.39	36.570	1.78742	17.2701	1.72806	17.7679
%RSD	1.129228	3.534293	1.943473	3.518251	2.086072	3.641404	3.508255
#1	47.32585	21537.57	1923.640	52.80465	846.9072	48.78560	524.9540
#2	48.39029	20236.76	1865.055	50.24435	823.5160	48.07923	504.9034
#3	47.70154	20307.75	1856.426	49.36387	813.2023	45.50251	489.5205
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	217.3187	259.6846	9007.290	-466.008	719.8764	534.1295	445.2300
SDEV	10.8809	.9062	324.490	19.233	26.1045	22.5263	81.3269
%RSD	5.006887	.3489451	3.602531	4.127238	3.626247	4.217388	18.26626
#1	229.1933	260.7299	9353.650	-443.803	748.5438	558.2145	520.6973
#2	214.9365	259.2022	8957.885	-477.493	713.6101	530.5938	455.8966
#3	207.8262	259.1218	8710.336	-476.726	697.4754	513.5801	359.0962
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	486.3241	41.71009	525.6468	502.7825	50.27819	9.206698	399.6204
SDEV	14.2058	.57518	21.2172	15.9220	.66676	2.316947	6.5479
%RSD	2.921051	1.378992	4.036408	3.166773	1.326142	25.16588	1.638536
#1	499.6945	42.26996	550.1458	517.7420	50.90554	11.54338	406.5017
#2	487.8687	41.73957	513.5411	504.5585	50.35101	9.166700	398.8929
#3	471.4092	41.12074	513.2535	486.0470	49.57800	6.910008	393.4666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	38.59581	52.52254	49.15525	-7.36843	17.47936	992.7989	941.7656
SDEV	1.47352	1.95524	.69643	1.31927	2.86688	22.7128	20.8002
%RSD	3.817817	3.722675	1.416796	17.90431	16.40153	2.287759	2.208636
#1	39.17661	54.76859	48.97441	-5.86166	20.23032	1017.899	964.5375
#2	39.69042	51.20097	49.92426	-7.92765	17.69861	986.8335	936.9924
#3	36.92039	51.59806	48.56707	-8.31598	14.50914	973.6642	923.7669
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	990.9817	1265.790	4880.066
SDEV	20.9462	42.620	101.079
%RSD	2.113684	3.367036	2.071257
#1	1010.458	1314.939	4763.466
#2	993.6630	1243.386	4933.866
#3	968.8239	1239.045	4942.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-MSD1 OPERATOR:
RUN TIME: 06/02/10 15:54:08
COMMENT: SDG:1005129 CLIENTID:SS53-0-1SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	46.54318	19268.81	1874.647	49.21031	823.8663	45.40655	482.0170
SDEV	.69724	336.14	41.693	.15056	12.6550	.59879	8.6506
%RSD	1.498048	1.744455	2.224069	.3059575	1.536047	1.318737	1.794666
#1	45.91704	19647.64	1918.633	49.09510	809.2881	44.72104	472.1909
#2	47.29454	19006.25	1835.705	49.38067	830.2860	45.67119	488.4853
#3	46.41795	19152.52	1869.602	49.15515	832.0247	45.82744	485.3747
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	203.6841	254.1900	8129.830	-468.005	666.9714	510.1953	464.7932
SDEV	4.2557	2.1079	131.103	39.547	2.4478	5.1392	92.2842
%RSD	2.089378	.8292679	1.612622	8.450211	.3670062	1.007292	19.85489
#1	198.9682	251.8206	7978.573	-423.060	664.4909	505.0811	549.9899
#2	207.2384	255.8572	8210.850	-483.477	669.3852	515.3590	477.6251
#3	204.8459	254.8922	8200.067	-497.476	667.0382	510.1458	366.7646
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	468.4491	44.12454	508.2424	472.9139	48.02278	10.27426	390.7729
SDEV	5.3427	1.38221	2.8498	17.2989	.86881	3.50369	2.0022
%RSD	1.140505	3.132531	.5607096	3.657939	1.809168	34.10157	.5123708
#1	462.2850	45.00306	506.3162	452.9444	47.12485	7.706324	392.8162
#2	471.3133	44.83926	511.5160	483.3084	48.08430	8.850823	388.8145
#3	471.7490	42.53130	506.8950	482.4887	48.85921	14.26565	390.6880
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	34.32833	54.13828	44.96588	-6.74098	18.76662	957.7502	930.1329
SDEV	2.99200	7.04816	4.66518	3.42416	6.15642	7.9210	15.7960
%RSD	8.715832	13.01882	10.37494	50.79616	32.80518	.8270457	1.698254
#1	32.75998	58.26628	41.55863	-2.92395	13.01089	948.7366	948.2598
#2	32.44656	58.14851	43.05608	-9.54256	18.03127	963.6019	922.8231
#3	37.77845	46.00005	50.28294	-7.75643	25.25769	960.9121	919.3157
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	962.0621	1229.656	4808.977
SDEV	3.4463	16.111	137.542
%RSD	.3582200	1.310206	2.860110
#1	962.4044	1232.268	4654.200
#2	958.4575	1212.398	4917.200
#3	965.3246	1244.301	4855.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005129-05RE1 OPERATOR:
RUN TIME: 06/02/10 16:01:16
COMMENT: SDG:1005129 CLIENTID:SS53-0-1L 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.323506	2851.117	5.433267	-.711043	470.1484	-.760942	-3.59136
SDEV	.174310	121.031	.205718	.244545	3.8554	.422490	1.22278
%RSD	53.88160	4.245022	3.786274	34.39252	.8200425	55.52191	34.04767
#1	-.480042	2828.748	5.385849	-.595902	470.3257	-1.03386	-3.69543
#2	-.354813	2981.772	5.658554	-.545321	473.9121	-.274291	-2.31988
#3	-.135664	2742.832	5.255397	-.991905	466.2073	-.974679	-4.75878
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.198610	-.053606	1557.249	L-1346.39	105.6419	5.419612	94.13126
SDEV	.359850	.073696	64.886	3.34	6.7778	.260604	32.12869
%RSD	11.25019	137.4775	4.166692	.2477596	6.415839	4.808535	34.13180
#1	3.613230	.0268031	1539.407	L-1344.33	108.8185	5.463510	117.7971
#2	2.967645	-.117933	1629.190	L-1344.60	110.2480	5.655479	57.55568
#3	3.014956	-.069688	1503.152	L-1350.24	97.85918	5.139847	107.0410
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2474387	1.092845	3.632391	5.604418	6.258308	2.434298	1.590713
SDEV	.3125823	1.343833	.084422	.083760	.511521	1.625500	1.762803
%RSD	126.3272	122.9664	2.324145	1.494536	8.173477	66.77490	110.8184
#1	.4903453	-.457297	3.585267	5.700867	6.694525	.6540659	2.009570
#2	.3571887	1.928589	3.729856	5.562437	6.385078	2.809312	3.106363
#3	-.105218	1.807244	3.582051	5.549951	5.695322	3.839516	-.343793
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.856896	8.015571	5.378478	-1.12494	4.208826	.2578305	-.853596
SDEV	.552903	1.385458	1.310846	3.17871	1.421785	.9216192	1.485568
%RSD	64.52395	17.28459	24.37206	282.5677	33.78102	357.4515	174.0364
#1	-.552232	8.141315	5.969800	-4.66682	3.308106	-.188738	.7315120
#2	-1.49512	6.571526	6.289496	1.479961	3.470490	1.317664	-2.21403
#3	-.523340	9.333870	3.876139	-.187951	5.847883	-.355434	-1.07827
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.649401	56.35693	4999.800
SDEV	.539065	2.08361	156.433
%RSD	32.68245	3.697174	3.128789
#1	2.014117	56.13103	5005.066
#2	1.903882	58.54429	4840.800
#3	1.030205	54.39547	5153.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-PS1 OPERATOR:
RUN TIME: 06/02/10 16:08:24
COMMENT: SDG:1005129 CLIENTID:SS53-0-1A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.12314	14398.28	371.7553	9.306538	828.0629	7.607120	85.83967
SDEV	.21989	166.12	2.0839	.076149	3.6175	.002306	.75604
%RSD	1.363840	1.153726	.5605647	.8182279	.4368578	.0303128	.8807625
#1	16.33185	14343.87	372.5756	9.330603	825.0449	7.608907	85.53607
#2	16.14401	14266.20	373.3042	9.221264	827.0710	7.604518	85.28261
#3	15.89355	14584.78	369.3861	9.367746	832.0729	7.607937	86.70032
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	31.12468	49.90740	7620.480	-943.964	490.3614	53.25141	451.3653
SDEV	.15300	.26539	62.211	2.901	.6867	.71122	40.4823
%RSD	.4915678	.5317666	.8163648	.3073309	.1400296	1.335582	8.968862
#1	30.94802	49.68761	7576.891	-943.883	490.5131	52.77255	405.0560
#2	31.21204	49.83235	7592.827	-946.905	489.6115	52.91304	469.0059
#3	31.21399	50.20223	7691.724	-941.105	490.9595	54.06864	480.0340
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	74.40048	10.41661	107.4995	55.63342	32.76676	9.527173	107.4222
SDEV	.39292	2.05406	1.8359	.33077	.90251	1.833401	1.3245
%RSD	.5281088	19.71905	1.707793	.5945545	2.754355	19.24392	1.233015
#1	74.45284	8.702944	106.3204	55.36274	32.34578	11.39049	108.9441
#2	74.76458	9.853354	106.5633	55.53540	32.15166	9.465800	106.5305
#3	73.98400	12.69354	109.6147	56.00212	33.80285	7.725229	106.7918
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.80378	37.20435	30.54823	-9.36525	18.95668	14.80269	-.858552
SDEV	1.75961	1.77461	1.41786	1.12158	3.19104	.66691	.380901
%RSD	9.883323	4.769903	4.641371	11.97598	16.83332	4.505354	44.36547
#1	18.99218	35.18163	30.92680	-10.6275	22.38044	14.95601	-.436088
#2	15.78235	38.49979	28.97951	-8.48314	18.42429	14.07247	-1.17575
#3	18.63681	37.93163	31.73837	-8.98512	16.06533	15.37960	-.963819
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.132276	281.4467	4759.489
SDEV	.135324	5.0828	20.396
%RSD	6.346482	1.805941	.4285331
#1	2.062784	276.3971	4755.066
#2	2.045815	281.3811	4781.733
#3	2.288227	286.5620	4741.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-01RE1 OPERATOR:
RUN TIME: 06/02/10 16:15:33
COMMENT: SDG:1005129 CLIENTID:SS55-00-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.031307	2939.392	33.90820	.0265405	26349.68	-.666409	-3.58366
SDEV	.262557	14.574	.32945	.1946401	154.76	.046122	.14873
%RSD	838.6503	.4958121	.9716073	733.3700	.5873201	6.921042	4.150091
#1	-.166971	2955.286	34.23958	.2353658	26179.98	-.616533	-3.47800
#2	-.198278	2936.232	33.90431	-.005909	26483.01	-.675173	-3.51924
#3	.2713279	2926.657	33.58071	-.149836	26386.05	-.707520	-3.75374
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.116450	85.19638	2919.955	L-1217.74	425.5763	32.63125	499.2789
SDEV	.741888	.30129	24.416	3.62	3.6042	.35212	26.6351
%RSD	9.140552	.3536458	.8361822	.2968851	.8468979	1.079075	5.334721
#1	7.843470	85.09989	2893.062	L-1213.67	422.1259	32.29855	529.8085
#2	7.549727	84.95515	2926.071	L-1218.96	425.2862	33.00001	487.2373
#3	8.956154	85.53410	2940.732	L-1220.58	429.3168	32.59520	480.7909
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.989397	-3.11048	7.737681	51.22932	32.43531	3.552560	11.04868
SDEV	.438331	2.09678	.610081	.32146	.81107	.630686	1.45014
%RSD	8.785249	67.41012	7.884551	.6274992	2.500573	17.75299	13.12497
#1	4.579821	-3.66159	7.134683	51.32564	32.44357	4.089550	11.94669
#2	4.936659	-.793189	7.723754	51.49161	33.24222	2.858042	9.375714
#3	5.451711	-4.87666	8.354608	50.87071	31.62015	3.710088	11.82363
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.188889	38.52466	29.39231	-17.1010	13.86127	15.29594	-.098633
SDEV	1.013831	2.19922	.63813	1.3779	.58350	1.10320	2.484340
%RSD	536.7330	5.708600	2.171067	8.057527	4.209574	7.212339	2518.773
#1	-.982597	39.87021	28.73290	-15.5151	13.87457	16.24855	2.702566
#2	-.537270	39.71700	30.00678	-18.0048	13.27124	15.55207	-2.03487
#3	.9531993	35.98676	29.43724	-17.7831	14.43801	14.08721	-.963590
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.301518	296.7552	4694.022
SDEV	.401810	3.8592	38.481
%RSD	30.87243	1.300452	.8197801
#1	1.680997	299.1833	4664.466
#2	1.342966	298.7772	4680.066
#3	.8805899	292.3052	4737.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-02RE1 OPERATOR:
RUN TIME: 06/02/10 16:22:41
COMMENT: SDG:1005129 CLIENTID:SB55-00-2.5-3 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.292199	10355.38	11.69063	-.598316	2198.322	-.856233	-4.10501
SDEV	.108451	28.10	.07633	.133577	11.822	.035057	.22170
%RSD	37.11538	.2713900	.6529416	22.32546	.5377666	4.094279	5.400641
#1	-.417428	10386.71	11.70268	-.465165	2198.492	-.823603	-3.85899
#2	-.229585	10332.39	11.76023	-.732315	2210.058	-.893295	-4.28930
#3	-.229585	10347.03	11.60899	-.597469	2186.416	-.851802	-4.16675
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.11312	1.683236	2746.191	L-1069.58	334.4747	12.44704	360.2822
SDEV	.46179	.226863	29.413	4.58	5.3457	.20385	29.0464
%RSD	2.416075	13.47779	1.071033	.4282419	1.598243	1.637739	8.062131
#1	19.61090	1.474171	2779.880	L-1066.99	337.2013	12.64459	389.4109
#2	19.02976	1.651072	2733.069	L-1066.88	337.9073	12.45910	360.1168
#3	18.69868	1.924464	2725.623	L-1074.86	328.3155	12.23743	331.3188
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.759472	-4.82618	14.83942	13.26181	15.76387	2.035833	8.397228
SDEV	.468941	1.70272	.17472	.29397	1.00570	1.353831	1.634382
%RSD	12.47358	35.28098	1.177406	2.216662	6.379792	66.50008	19.46335
#1	3.309591	-2.89057	15.03347	12.92288	16.56714	.8045728	8.259547
#2	4.245393	-6.09287	14.79017	13.44759	14.63594	1.817284	10.09610
#3	3.723433	-5.49509	14.69460	13.41495	16.08854	3.485643	6.836042
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3985528	19.72370	13.78413	-15.7452	10.91055	14.84335	-1.86341
SDEV	1.695269	2.65793	.34386	.9138	1.63016	1.79196	.74828
%RSD	425.3563	13.47582	2.494612	5.803590	14.94116	12.07248	40.15618
#1	.9715653	22.25710	13.72362	-16.7755	9.578950	16.31738	-1.38202
#2	-1.50897	16.95667	13.47455	-15.4272	10.42416	15.36393	-1.48273
#3	1.733059	19.95735	14.15423	-15.0329	12.72855	12.84874	-2.72549
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.1582556	345.9205	4882.667
SDEV	.5805362	2.9933	25.276
%RSD	366.8346	.8653188	.5176646
#1	.7238580	342.5195	4872.733
#2	.1870516	347.0874	4911.400
#3	-.436143	348.1547	4863.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-03RE1 OPERATOR:
RUN TIME: 06/02/10 16:29:49
COMMENT: SDG:1005129 CLIENTID:SS54-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.292199	65364.62	81.38326	.5773029	2335.654	-.581693	-3.88197
SDEV	.031307	1198.64	.94565	.2909533	22.545	.154360	.21211
%RSD	10.71429	1.833770	1.161973	50.39873	.9652526	26.53634	5.463864
#1	-.260892	66653.95	82.43541	.8089814	2311.240	-.636339	-3.99313
#2	-.323506	65155.77	80.60422	.6721711	2340.035	-.701296	-3.63739
#3	-.292199	64284.13	81.11015	.2507562	2355.686	-.407444	-4.01540
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	58.93455	10.72661	18872.46	332.6049	1591.927	53.89618	535.3264
SDEV	.85531	.29668	95.24	49.0930	11.203	.46255	49.5698
%RSD	1.451281	2.765840	.5046592	14.76014	.7037454	.8582228	9.259734
#1	58.06766	10.39961	18795.56	381.6346	1592.715	53.74544	506.1468
#2	59.77779	10.80166	18979.00	332.7312	1602.716	54.41530	592.5610
#3	58.95821	10.97856	18842.83	283.4489	1580.351	53.52780	507.2715
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.42553	-3.91008	79.98368	58.63745	49.01973	2.939564	8.160908
SDEV	1.32693	1.00292	1.00968	1.36713	.44988	1.657194	.769706
%RSD	10.67909	25.64958	1.262355	2.331505	.9177592	56.37550	9.431620
#1	10.91763	-5.05902	80.20963	57.06783	49.52677	3.931066	8.921499
#2	12.94404	-3.46125	80.86124	59.27639	48.66835	3.861201	8.178823
#3	13.41491	-3.20996	78.88017	59.56813	48.86406	1.026426	7.382401
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.475172	55.36117	45.85054	-14.5855	11.68636	14.65213	.4216486
SDEV	2.763301	2.21386	1.56649	1.5015	3.12920	1.81905	1.228291
%RSD	79.51552	3.998938	3.416515	10.29430	26.77648	12.41490	291.3067
#1	.5834514	54.53465	47.02329	-16.1699	13.96382	15.33106	-.736319
#2	3.753001	57.86938	44.07153	-14.4029	12.97698	12.59126	1.709879
#3	6.089063	53.67947	46.45681	-13.1836	8.118277	16.03406	.2913856
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.141089	377.3979	4691.689
SDEV	.136990	1.9183	110.916
%RSD	6.398169	.5082965	2.364089
#1	2.182884	376.3064	4575.466
#2	1.988070	376.2745	4703.200
#3	2.252314	379.6130	4796.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-04RE1 OPERATOR:
RUN TIME: 06/02/10 16:36:58
COMMENT: SDG:1005129 CLIENTID:SB54-4-5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.480042	112714.4	121.5161	.2836472	1610.679	-.399351	-3.70332
SDEV	.143467	814.9	.2956	.3421935	4.677	.594161	.52727
%RSD	29.88637	.7230114	.2432985	120.6405	.2903574	148.7816	14.23774
#1	-.636577	113328.2	121.8173	.5605476	1606.976	-.669735	-3.17918
#2	-.448735	113025.3	121.2263	-.098916	1615.935	-.810233	-4.23366
#3	-.354813	111789.8	121.5047	.3893096	1609.128	.2819147	-3.69713
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	121.6466	8.845028	50765.04	2533.845	3947.715	61.66372	555.5160
SDEV	2.0695	.244070	590.67	57.291	44.627	.91272	37.5129
%RSD	1.701239	2.759406	1.163543	2.261039	1.130459	1.480156	6.752803
#1	121.7418	8.582357	51043.80	2588.237	3966.590	62.44669	526.0490
#2	119.5311	9.064814	50086.57	2474.039	3896.751	60.66127	542.7543
#3	123.6668	8.887912	51164.73	2539.260	3979.802	61.88320	597.7448
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	18.44994	-3.57927	153.4030	47.93185	58.62389	4.102998	8.261575
SDEV	.45019	2.13077	.4734	.44344	.13555	2.001939	.876909
%RSD	2.440078	59.53068	.3085665	.9251572	.2312169	48.79210	10.61431
#1	18.45225	-6.02397	153.7658	47.55279	58.76229	6.318005	8.669569
#2	17.99860	-2.59729	153.5756	47.82325	58.49138	2.422723	7.255003
#3	18.89898	-2.11657	152.8676	48.41951	58.61800	3.568266	8.860151
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.482137	60.50202	57.68313	-10.8970	11.58926	19.69647	1.128044
SDEV	.269278	.79705	.55317	1.0069	2.95921	2.21979	.688697
%RSD	3.598941	1.317396	.9589825	9.240637	25.53407	11.26999	61.05234
#1	7.630153	59.64294	58.31948	-10.3829	14.65342	17.25411	.7054013
#2	7.644939	60.64560	57.41283	-10.2508	8.747557	21.59117	.7559843
#3	7.171319	61.21752	57.31708	-12.0572	11.36680	20.24413	1.922747
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.471542	821.0182	4876.111
SDEV	1.370898	5.0206	67.318
%RSD	39.48960	.6115037	1.380568
#1	4.703167	817.9050	4812.400
#2	3.716941	826.8100	4946.533
#3	1.994518	818.3395	4869.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 16:44:07
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	100.4331	46502.32	912.9780	1035.315	48057.94	968.8497	1010.038
SDEV	.4475	661.54	7.1214	14.211	689.40	5.5880	10.909
%RSD	.4455915	1.422585	.7800179	1.372605	1.434523	.5767710	1.080070
#1	100.0469	46934.84	921.1499	1039.084	48183.23	969.6975	1007.934
#2	100.9236	46831.34	909.6856	1047.261	48676.11	973.9655	1021.845
#3	100.3287	45740.79	908.0986	1019.599	47314.49	962.8863	1000.333
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	967.6964	1006.763	24998.35	51373.79	49833.84	1002.046	49195.91
SDEV	23.9989	4.834	344.85	318.50	713.70	14.604	321.73
%RSD	2.480005	.4801236	1.379489	.6199743	1.432161	1.457460	.6539847
#1	955.9625	1004.468	24944.84	51617.53	49881.12	993.4708	49220.51
#2	995.3046	1012.316	25366.84	51490.44	50522.73	1018.909	49504.63
#3	951.8220	1003.503	24683.40	51013.41	49097.68	993.7581	48862.58
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	976.7362	1008.059	987.7950	1057.990	973.7191	1004.023	1004.882
SDEV	7.1975	11.321	12.6585	10.434	7.8940	.841	8.953
%RSD	.7368912	1.123076	1.281494	.9862066	.8107068	.0837703	.8909580
#1	978.8386	1016.138	990.6749	1055.680	973.5028	1004.888	1007.771
#2	982.6484	1012.921	998.7654	1069.386	981.7190	1003.971	1012.035
#3	968.7216	995.1193	973.9446	1048.905	965.9354	1003.209	994.8415
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1027.590	973.7906	973.6808	1018.252	996.9159	1038.987	990.9881
SDEV	9.876	12.4239	5.7353	3.434	1.2650	11.899	8.3964
%RSD	.9611286	1.275831	.5890307	.3372159	.1268887	1.145244	.8472741
#1	1030.440	971.6450	974.4279	1021.968	996.3589	1042.396	992.1122
#2	1035.727	987.1476	979.0059	1015.197	998.3638	1048.810	998.7658
#3	1016.601	962.5792	967.6086	1017.592	996.0251	1025.756	982.0862
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1016.045	983.3882	4864.800
SDEV	10.825	12.7368	31.641
%RSD	1.065430	1.295194	.6504156
#1	1021.093	985.1720	4834.133
#2	1023.424	995.1391	4862.933
#3	1003.618	969.8536	4897.333
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 16:51:17
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.177407	-1.28249	.0435018	-.150376	381.0885	-.522274	-3.02241
SDEV	.095645	12.07531	.0781226	.263471	6.3994	.561292	.82975
%RSD	53.91266	941.5505	179.5846	175.2078	1.679247	107.4708	27.45326
#1	-.198278	1.607453	.0009794	.0200617	377.1361	-.954539	-3.80568
#2	-.073050	-14.5406	-.004136	-.453838	377.6577	-.724361	-3.10863
#3	-.260892	9.085632	.1336617	-.017352	388.4718	.1120793	-2.15291
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4279719	-1.27583	1.269228	-1430.71	10.33033	.1866089	.1370541
SDEV	.8109986	.04825	4.095950	6.38	5.69951	.0975299	24.11071
%RSD	189.4981	3.781504	322.7119	.4459600	55.17260	52.26431	17592.11
#1	.4671556	-1.22758	1.720885	-1436.49	4.890253	.1353294	-27.5054
#2	-.401908	-1.32407	-3.03383	-1431.77	9.842778	.1254162	16.83027
#3	1.218668	-1.27583	5.120630	-1423.86	16.25795	.2990812	11.08627
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.142217	1.598782	.0318801	.8168217	.3199806	1.032678	-.437548
SDEV	.522235	2.745804	.2891648	.1545139	1.648873	.562151	.597677
%RSD	367.2095	171.7435	907.0386	18.91648	515.3040	54.43628	136.5969
#1	-.523875	2.983442	-.232261	.6648470	-1.41908	1.182654	.2040927
#2	-.355718	-1.56367	-.012935	.8118626	.5182838	.4107489	-.978461
#3	.4529412	3.376569	.3408358	.9737554	1.860734	1.504631	-.538276
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.097944	1.076854	-.060365	1.008199	1.042415	-.305371	.9419161
SDEV	.303114	2.374306	1.509878	2.267909	.302071	1.597667	1.061209
%RSD	309.4767	220.4854	2501.252	224.9465	28.97800	523.1892	112.6649
#1	-.438245	-.659567	-1.80079	1.835633	.8541012	.9377409	.4013735
#2	.1430905	.1076860	.7208404	-1.55724	1.390836	-2.10741	2.164566
#3	.0013225	3.782442	.8988548	2.746209	.8823070	.2535580	.2598093
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.074839	.1863605	4880.022
SDEV	.254450	.2259970	94.127
%RSD	23.67330	121.2687	1.928833
#1	1.294633	.0821539	4777.600
#2	.7960852	.0312674	4962.733
#3	1.133800	.4456603	4899.733
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-06RE1 OPERATOR:
RUN TIME: 06/02/10 16:58:25
COMMENT: SDG:1005129 CLIENTID:SB53-7-8 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.813984	41936.25	42.76725	-.170085	773.9362	-1.14317	-5.90978
SDEV	.141171	359.55	.65860	.288688	5.1688	.22176	.22246
%RSD	17.34327	.8573728	1.539957	169.7316	.6678535	19.39836	3.764308
#1	-.949648	41977.18	43.44463	.1524747	767.9687	-1.26625	-5.65303
#2	-.824419	42273.59	42.12920	-.404216	776.8321	-1.27608	-6.03114
#3	-.667884	41557.99	42.72790	-.258514	777.0077	-.887168	-6.04518
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	58.52184	7.038498	38809.85	794.4526	1386.407	42.65878	390.8838
SDEV	1.46350	.251207	233.93	19.5795	3.595	.25139	88.9835
%RSD	2.500775	3.569038	.6027613	2.464525	.2593260	.5892940	22.76468
#1	57.20201	6.749024	38607.35	816.3923	1386.344	42.47613	491.1138
#2	60.09574	7.167152	39065.92	788.2097	1390.033	42.94549	321.1852
#3	58.26776	7.199317	38756.29	778.7558	1382.843	42.55472	360.3525
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.287934	-6.64929	107.1814	26.00434	36.93090	5.527474	9.862208
SDEV	.345813	3.53823	1.3535	.58018	.31961	.586762	2.561085
%RSD	5.499629	53.21222	1.262831	2.231085	.8654335	10.61537	25.96867
#1	5.890032	-9.67433	106.8665	26.19950	37.20668	4.905086	8.391842
#2	6.457860	-7.51500	108.6646	25.35175	36.58062	6.070539	8.375305
#3	6.515909	-2.75854	106.0131	26.46178	37.00540	5.606797	12.81948
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.41550	39.90358	35.44400	-8.68813	12.62214	16.95810	-3.03627
SDEV	1.94067	.45009	.29616	5.67940	3.13714	1.09365	1.30698
%RSD	5.986872	1.127945	.8355671	65.36961	24.85429	6.449138	43.04562
#1	32.49450	40.40571	35.60675	-4.91087	9.803203	15.77613	-4.50323
#2	34.31547	39.53641	35.10216	-5.93406	12.06137	17.93417	-2.60973
#3	30.43653	39.76860	35.62310	-15.2195	16.00186	17.16401	-1.99584
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.355982	753.0149	4886.066
SDEV	.201701	4.0924	41.327
%RSD	6.010198	.5434679	.8458178
#1	3.504266	749.2419	4838.400
#2	3.437378	757.3654	4911.866
#3	3.126301	752.4376	4907.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-07RE1 OPERATOR:
RUN TIME: 06/02/10 17:05:34
COMMENT: SDG:1005129 CLIENTID:SS80-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4069919	16284.94	38.80520	.1943459	12314.98	-.904992	-4.39915
SDEV	.7037710	235.55	.25038	.1454596	105.58	.166946	.05867
%RSD	172.9202	1.446415	.6452266	74.84573	.8573225	18.44724	1.333739
#1	-.198278	16494.61	38.73691	.3337179	12213.73	-.725970	-4.46110
#2	1.179233	16330.16	38.59605	.2058392	12424.41	-.932580	-4.39191
#3	.2400209	16030.07	39.08264	.0434806	12306.78	-1.05642	-4.34443
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	30.24100	9.504385	6646.584	-336.802	695.7210	69.19939	533.2034
SDEV	.77413	.228755	18.282	17.714	10.4116	.72249	147.5449
%RSD	2.559877	2.406835	.2750514	5.259472	1.496519	1.044070	27.67140
#1	30.98198	9.241715	6664.846	-321.304	703.7339	70.00059	412.9807
#2	30.30351	9.611597	6646.623	-332.991	699.4763	69.00019	697.8583
#3	29.43750	9.659843	6628.283	-356.111	683.9526	68.59740	488.7713
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.575707	-6.59894	23.98601	30.24860	38.03902	1.728679	8.715886
SDEV	.944795	3.37685	.64085	.54842	.87308	1.455541	1.095229
%RSD	12.47137	51.17263	2.671786	1.813029	2.295226	84.19961	12.56590
#1	7.538605	-8.88702	23.34169	30.87243	38.80966	.0695109	9.815836
#2	8.538507	-2.72056	24.62334	30.03094	37.09080	2.325947	8.706384
#3	6.650011	-8.18925	23.99299	29.84242	38.21659	2.790578	7.625439
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.414659	47.13622	33.49437	-12.7049	8.932099	17.85588	1.834085
SDEV	.936599	3.35106	2.95676	6.6185	1.605625	1.38403	2.359570
%RSD	38.78802	7.109311	8.827624	52.09444	17.97589	7.751096	128.6511
#1	2.010526	43.63302	36.39864	-20.0690	10.12104	16.39175	-.522086
#2	1.747978	50.31095	30.48778	-7.25284	7.105620	19.14271	4.197040
#3	3.485475	47.46470	33.59667	-10.7929	9.569639	18.03318	1.827301
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.538003	249.6171	4744.511
SDEV	.706787	1.8316	121.685
%RSD	45.95486	.7337546	2.564763
#1	2.045226	251.6971	4612.466
#2	1.838098	248.9084	4768.933
#3	.7306842	248.2457	4852.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-08RE1 OPERATOR:
RUN TIME: 06/02/10 17:12:42
COMMENT: SDG:1005129 CLIENTID:SB80-3-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0939212	17565.45	17.42281	-.279345	917.8626	-.950717	-5.64524
SDEV	.0723006	283.28	.15804	.269091	5.0643	.126432	.97163
%RSD	76.98000	1.612730	.9071118	96.32912	.5517460	13.29861	17.21157
#1	.1774067	17842.65	17.60512	-.016027	921.6340	-1.01182	-4.77743
#2	.0521785	17276.45	17.33886	-.553859	912.1066	-1.03499	-6.69498
#3	.0521785	17577.26	17.32446	-.268149	919.8472	-.805340	-5.46331
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	24.18495	6.609648	11676.72	-921.563	407.1936	12.49661	420.6575
SDEV	.68958	.122827	187.99	10.057	6.5250	.26132	58.1577
%RSD	2.851294	1.858304	1.609924	1.091288	1.602430	2.091137	13.82543
#1	24.10703	6.475632	11757.40	-912.238	409.0176	12.49401	485.5266
#2	23.53765	6.636451	11461.85	-932.219	399.9507	12.23660	403.2667
#3	24.91019	6.716860	11810.89	-920.234	412.6125	12.75922	373.1792
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.260031	-6.63404	31.05036	23.22573	16.57002	3.372242	8.823312
SDEV	.697466	3.86291	.66646	.63607	1.07219	2.484028	.701514
%RSD	13.25973	58.22859	2.146383	2.738628	6.470663	73.66102	7.950684
#1	4.636923	L-10.9206	31.43980	23.31930	17.55108	1.148416	8.138034
#2	5.129702	-3.42244	30.28082	22.54805	16.73350	6.053022	9.540006
#3	6.013468	-5.55912	31.43048	23.80982	15.42548	2.915289	8.791897
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.488908	22.26819	13.72240	-14.8897	12.48702	17.72992	.0352526
SDEV	1.625749	1.67388	1.14970	5.7097	.92507	.79614	.6697868
%RSD	65.31979	7.516914	8.378277	38.34658	7.408248	4.490392	1899.966
#1	.6250606	24.19196	14.23276	-19.5908	11.49995	17.34630	-.437413
#2	3.226880	21.14447	14.52856	-8.53599	13.33414	17.19821	-.258561
#3	3.614782	21.46813	12.40587	-16.5423	12.62698	18.64524	.8017314
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.164369	298.1457	4840.711
SDEV	.592760	3.5909	83.646
%RSD	50.90828	1.204423	1.727962
#1	1.841497	300.4332	4764.066
#2	.9123391	294.0069	4929.933
#3	.7392711	299.9969	4828.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-09RE1 OPERATOR:
RUN TIME: 06/02/10 17:19:50
COMMENT: SDG:1005129 CLIENTID:SS56-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.720063	62870.09	109.4942	.2999974	15014.70	-1.09361	-8.22832
SDEV	.213103	1200.25	1.7375	.2238451	168.40	.23368	.13033
%RSD	29.59504	1.909096	1.586859	74.61567	1.121598	21.36752	1.583981
#1	-.793112	62421.44	108.7437	.0476631	15079.12	-1.07476	-8.12677
#2	-.480042	61958.79	108.2581	.3776655	14823.60	-.869925	-8.37528
#3	-.887034	64230.04	111.4809	.4746636	15141.40	-1.33614	-8.18290
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	49.46018	19.46442	48921.47	-263.616	1312.078	44.22373	454.4895
SDEV	.53931	.13487	407.03	28.363	13.596	.51603	98.6487
%RSD	1.090389	.6929071	.8320163	10.75907	1.036232	1.166854	21.70539
#1	49.43359	19.53411	48860.09	-289.162	1300.146	43.87836	340.7035
#2	48.93466	19.30896	48548.61	-268.590	1309.209	43.97592	506.7859
#3	50.01230	19.55019	49355.71	-233.095	1326.880	44.81692	515.9790
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.33709	-4.49424	69.36916	25.83749	58.21117	5.699362	11.57604
SDEV	.35731	.87379	1.60163	.53316	1.95985	1.632939	1.31442
%RSD	3.456555	19.44247	2.308852	2.063499	3.366788	28.65126	11.35468
#1	10.60562	-4.84412	69.00337	26.40868	60.33031	4.386241	12.62177
#2	10.47408	-3.49973	67.98206	25.35298	56.46390	5.184054	12.00583
#3	9.931554	-5.13887	71.12204	25.75082	57.83929	7.527791	10.10052
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.583437	56.16053	59.23209	-11.1403	14.10403	11.75606	-2.25133
SDEV	.331741	1.95604	3.89743	3.0803	1.33592	1.75118	1.30638
%RSD	7.237811	3.482947	6.579938	27.64977	9.471900	14.89595	58.02692
#1	4.810876	54.26730	63.35445	-14.5475	13.83643	9.805141	-3.57294
#2	4.736655	58.17385	55.60738	-10.3204	12.92216	13.19202	-2.22032
#3	4.202781	56.04046	58.73445	-8.55289	15.55349	12.27102	-.960736
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.2262403	434.3987	4773.289
SDEV	.5843204	6.5473	81.994
%RSD	258.2743	1.507213	1.717777
#1	-.431488	436.6296	4826.533
#2	.4248132	427.0275	4814.466
#3	.6853952	439.5391	4678.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-10RE1 OPERATOR:
RUN TIME: 06/02/10 17:26:58
COMMENT: SDG:1005129 CLIENTID:SB56-3-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.323506	105948.6	102.6601	.0700381	3213.010	-.026976	-2.36093
SDEV	.219149	833.1	.6691	.1299079	18.848	.169879	.17667
%RSD	67.74194	.7862933	.6517278	185.4819	.5865995	629.7352	7.483122
#1	-.104357	106800.3	103.4111	.2173327	3208.345	-.201177	-2.19805
#2	-.542656	105135.5	102.4418	.0209727	3196.934	.1382237	-2.33599
#3	-.323506	105909.9	102.1274	-.028191	3233.752	-.017976	-2.54875
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	104.3919	7.906918	29237.05	1355.036	2755.821	49.18373	518.0970
SDEV	.5409	.255291	122.46	20.500	17.215	.06301	55.1319
%RSD	.5181906	3.228702	.4188528	1.512874	.6246943	.1281125	10.64123
#1	104.7666	8.099900	29165.72	1377.919	2751.839	49.16522	545.9126
#2	103.7717	7.617446	29166.97	1338.348	2740.946	49.13204	454.5984
#3	104.6373	8.003409	29378.45	1348.841	2774.679	49.25392	553.7800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.42873	-4.67048	160.6382	27.75150	68.40227	2.563012	9.206841
SDEV	.33662	5.28215	1.7273	.91815	2.09387	1.230617	1.036396
%RSD	2.506750	113.0965	1.075298	3.308487	3.061112	48.01448	11.25681
#1	13.26791	-5.03750	160.7811	26.69347	66.09539	3.854241	8.886549
#2	13.20267	.7856064	158.8439	28.22186	68.92879	2.431173	8.368401
#3	13.81560	-9.75955	162.2897	28.33916	70.18263	1.403623	10.36558
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.429719	73.18629	66.01108	-16.1297	11.89289	19.72745	-1.03225
SDEV	1.951396	1.32874	2.93828	2.2881	1.37727	3.68493	2.26533
%RSD	80.31364	1.815558	4.451193	14.18543	11.58063	18.67921	219.4540
#1	.2835863	72.18108	63.05432	-15.3498	13.43939	23.85907	1.301406
#2	4.097370	74.69274	66.04839	-14.3335	10.79851	18.54256	-1.17575
#3	2.908202	72.68504	68.93053	-18.7058	11.44078	16.78073	-3.22242
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.284712	725.5381	4907.333
SDEV	1.269917	12.6941	32.211
%RSD	55.58324	1.749613	.6563768
#1	1.464467	733.8427	4872.066
#2	1.642177	710.9256	4935.200
#3	3.747492	731.8460	4914.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-11RE1 OPERATOR:
RUN TIME: 06/02/10 17:34:07
COMMENT: SDG:1005129 CLIENTID:SS58-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2921993	3504.557	16.06662	-.877135	686.6082	-.697771	-3.71547
SDEV	.5479482	20.911	.17638	.145431	1.9035	.049488	.61933
%RSD	187.5255	.5966690	1.097808	16.58021	.2772301	7.092294	16.66902
#1	.3026350	3528.559	16.15899	-.746101	687.3498	-.682462	-3.44628
#2	.8348551	3490.279	16.17764	-.851697	688.0292	-.753104	-3.27628
#3	-.260892	3494.832	15.86324	-1.03361	684.4455	-.657746	-4.42385
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.922358	.8630600	2601.919	L-1234.34	135.8711	17.54521	455.3852
SDEV	.102824	.2401537	25.748	7.72	6.4521	.14120	178.5782
%RSD	1.297896	27.82584	.9895815	.6255646	4.748713	.8047613	39.21476
#1	7.929032	1.136452	2624.854	L-1233.09	137.7680	17.62560	415.6686
#2	8.021682	.6861592	2606.836	L-1227.32	141.1622	17.62786	650.4779
#3	7.816359	.7665687	2574.067	L-1242.61	128.6832	17.38218	300.0090
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.818291	-5.26950	6.490547	8.610091	8.686120	1.575937	10.40033
SDEV	.244006	.96697	.347551	.287224	1.386115	1.579459	1.32437
%RSD	13.41954	18.35036	5.354725	3.335905	15.95781	100.2235	12.73396
#1	2.087819	-6.29892	6.774079	8.829730	9.299832	2.289565	9.014403
#2	1.612427	-5.12929	6.594746	8.285058	9.659432	-.234405	11.65309
#3	1.754628	-4.38029	6.102816	8.715486	7.099095	2.672649	10.53349
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.59946	14.38006	5.840651	-16.9307	10.81292	14.53447	-1.14093
SDEV	.82422	4.20876	.616007	.8502	2.62944	1.19863	1.72665
%RSD	51.53137	29.26800	10.54688	5.021668	24.31756	8.246794	151.3371
#1	-2.54066	14.85484	6.523704	-16.3976	11.61665	13.30415	-1.58830
#2	-1.25113	18.33129	5.327241	-16.4833	7.875412	15.69867	.7653772
#3	-1.00659	9.954043	5.671009	-17.9112	12.94668	14.60060	-2.59987
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.8188290	157.8316	4909.711
SDEV	.7403781	2.2169	34.498
%RSD	90.41914	1.404582	.7026398
#1	1.673737	157.2711	4871.866
#2	.3943136	155.9489	4917.866
#3	.3884362	160.2750	4939.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-12RE1 OPERATOR:
RUN TIME: 06/02/10 17:41:15
COMMENT: SDG:1005129 CLIENTID:SS52-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2400209	4150.536	97.95007	.1350797	2609.557	-1.02117	-4.39103
SDEV	.5172777	30.613	.39457	.1804600	30.490	.32155	.59477
%RSD	215.5136	.7375589	.4028226	133.5952	1.168388	31.48817	13.54509
#1	.7409339	4116.992	98.33877	.0194913	2584.891	-1.13770	-4.63081
#2	-.292199	4176.964	97.54989	.0427230	2600.133	-1.26820	-4.82847
#3	.2713279	4157.653	97.96156	.3430248	2643.646	-.657602	-3.71379
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.845092	6.078946	1766.053	L-1245.50	356.4200	17.14947	622.7076
SDEV	.117141	.218343	28.607	9.36	2.1378	.30764	135.5406
%RSD	1.189837	3.591784	1.619803	.7517260	.5997909	1.793856	21.76634
#1	9.920575	6.330895	1742.855	L-1236.86	358.8821	16.87634	756.7737
#2	9.904553	5.961012	1757.287	L-1255.45	355.0352	17.08934	485.7390
#3	9.710146	5.944931	1798.017	L-1244.19	355.3427	17.48274	625.6101
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.828436	-1.38630	8.460993	8.852757	15.92323	3.212359	8.661015
SDEV	.888466	1.74010	.568143	.139386	.42712	.646896	2.126916
%RSD	31.41193	125.5212	6.714855	1.574494	2.682370	20.13771	24.55736
#1	3.665850	.5770634	9.068489	8.900704	16.02158	2.665068	9.638869
#2	1.896478	-1.99804	7.942773	8.961842	16.29259	3.926264	10.12314
#3	2.922980	-2.73791	8.371716	8.695726	15.45551	3.045745	6.221030
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.76094	25.00233	11.38780	-12.4029	11.00569	18.02529	.7689366
SDEV	1.13001	3.66467	2.15451	1.8485	1.88794	1.94400	3.425143
%RSD	64.17050	14.65730	18.91944	14.90403	17.15419	10.78483	445.4390
#1	-2.91367	28.52393	9.777226	-10.6486	9.309397	20.22664	4.653657
#2	-.655123	21.20965	13.83517	-14.3331	13.03969	17.30500	-1.81632
#3	-1.71403	25.27341	10.55101	-12.2268	10.66798	16.54424	-.530525
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.9634678	388.4665	4706.689
SDEV	.8107510	2.8832	33.433
%RSD	84.14926	.7421884	.7103399
#1	1.746679	387.9127	4740.066
#2	.1277308	385.9004	4706.800
#3	1.015994	391.5864	4673.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-13RE1 OPERATOR:
RUN TIME: 06/02/10 17:48:23
COMMENT: SDG:1005129 CLIENTID:SS57-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0417428	5825.690	11.77484	-.542741	1790.509	-.741366	-4.13957
SDEV	.3655472	44.328	.09085	.144655	19.826	.123950	.77771
%RSD	875.7134	.7609050	.7715252	26.65260	1.107271	16.71913	18.78731
#1	.1147926	5868.633	11.71046	-.380054	1783.686	-.881893	-4.02008
#2	.3652492	5828.338	11.87875	-.591303	1812.845	-.647591	-3.42851
#3	-.354813	5780.096	11.73530	-.656866	1774.996	-.694615	-4.97011
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.12509	5.762670	2166.577	L-1086.22	243.7490	21.73114	486.6552
SDEV	.21780	.196524	31.654	8.29	5.2153	.10627	122.9296
%RSD	1.796287	3.410289	1.461015	.7631387	2.139600	.4890173	25.26010
#1	11.92065	5.977095	2181.856	L-1088.24	243.0218	21.72679	417.0707
#2	12.35416	5.719785	2187.692	L-1077.11	249.2897	21.83952	628.5931
#3	12.10046	5.591130	2130.181	L-1093.31	238.9355	21.62711	414.3020
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.003574	-5.75926	13.84461	12.27108	18.80762	3.530465	9.917547
SDEV	.328534	1.50271	.50069	.58961	.31376	.813814	.949472
%RSD	10.93811	26.09197	3.616479	4.804847	1.668276	23.05118	9.573654
#1	3.371094	-6.95557	13.85262	11.69563	18.97163	3.334595	10.90891
#2	2.738380	-4.07264	14.34125	12.87389	19.00539	2.832461	9.827334
#3	2.901248	-6.24958	13.33997	12.24373	18.44584	4.424339	9.016401
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.103720	23.92578	16.24814	-14.4653	12.51240	13.90130	-.120192
SDEV	1.859601	.95058	.20297	1.3870	1.91191	1.42930	1.255407
%RSD	88.39582	3.973041	1.249205	9.588485	15.28016	10.28175	1044.502
#1	2.241236	24.78738	16.06384	-14.2188	12.09566	14.31647	-1.48619
#2	3.890745	24.08391	16.46568	-13.2181	10.84323	15.07705	.9830335
#3	.1791788	22.90605	16.21489	-15.9590	14.59831	12.31038	.1425766
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.170509	242.3119	4899.311
SDEV	.235947	2.6633	50.419
%RSD	20.15768	1.099131	1.029102
#1	1.258907	243.7449	4855.733
#2	1.349492	243.9520	4887.667
#3	.9031269	239.2389	4954.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-14RE1 OPERATOR:
RUN TIME: 06/02/10 17:55:31
COMMENT: SDG:1005129 CLIENTID:SS60-00-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.344378	11759.33	44.56005	-.268845	1885.982	-.949144	-4.53795
SDEV	.402553	37.74	.56098	.304549	9.758	.182272	.43757
%RSD	116.8928	.3209075	1.258941	113.2804	.5174177	19.20388	9.642566
#1	-.636577	11727.61	43.91801	-.605962	1888.850	-1.15800	-4.99385
#2	.1147926	11749.32	44.95554	-.186970	1893.986	-.867262	-4.12136
#3	-.511349	11801.06	44.80660	-.013603	1875.111	-.822171	-4.49863
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.71407	7.156431	3001.976	L-1035.81	418.1065	39.60492	372.0768
SDEV	.27290	.354653	11.178	25.52	5.5480	.30169	250.1613
%RSD	1.989942	4.955727	.3723419	2.463521	1.326942	.7617373	67.23380
#1	14.02839	7.456627	3014.314	L-1065.25	412.5378	39.34654	84.58897
#2	13.57632	7.247561	2999.089	L-1020.06	423.6336	39.53175	540.1883
#3	13.53749	6.765106	2992.525	L-1022.11	418.1480	39.93646	491.4530
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.907989	-4.63028	19.60234	23.12324	26.14952	3.493670	9.955391
SDEV	.730787	2.58579	.11546	.49100	1.34183	.722745	1.999067
%RSD	14.88975	55.84525	.5890232	2.123408	5.131392	20.68727	20.08024
#1	4.149070	-4.06680	19.47199	23.68904	25.29175	4.216215	12.26341
#2	4.967948	-7.45135	19.69178	22.80891	25.46096	2.770726	8.768701
#3	5.606950	-2.37269	19.64325	22.87177	27.69585	3.494069	8.834066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.863206	30.07454	24.18707	-18.4713	14.45710	13.05121	-2.67407
SDEV	1.385197	4.38414	1.98142	1.9080	.99306	1.56323	3.66142
%RSD	160.4711	14.57756	8.192072	10.32947	6.868990	11.97763	136.9231
#1	.5976227	25.01224	25.42845	-18.3935	15.50162	11.25114	-6.84701
#2	-1.02948	32.58384	21.90196	-20.4169	14.34458	14.06735	.0005497
#3	-2.15776	32.62755	25.23078	-16.6033	13.52509	13.83514	-1.17575
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.1997480	488.4650	4712.289
SDEV	.1715169	1.4941	68.074
%RSD	85.86662	.3058718	1.444605
#1	.2174064	489.0057	4785.933
#2	.0200851	489.6134	4699.267
#3	.3617526	486.7758	4651.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-15RE1 OPERATOR:
RUN TIME: 06/02/10 18:02:39
COMMENT: SDG:1005129 CLIENTID:SS59-00-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0104357	11507.98	78.57478	.1754468	2224.179	-.888071	-4.74029
SDEV	.2959029	90.99	.40740	.0866717	15.192	.217695	.38119
%RSD	2835.484	.7906505	.5184902	49.40057	.6830276	24.51326	8.041591
#1	.2400209	11591.02	78.69519	.2649133	2232.431	-.745717	-4.85584
#2	.1147926	11410.72	78.12073	.0918703	2206.647	-.779824	-5.05033
#3	-.323506	11522.21	78.90839	.1695567	2233.459	-1.13867	-4.31468
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.78814	4.819200	8856.768	-663.297	652.1678	72.21684	572.6312
SDEV	.44146	.112573	46.255	4.823	4.8331	1.09291	35.0957
%RSD	2.629605	2.335925	.5222610	.7271666	.7410880	1.513374	6.128851
#1	17.26720	4.931773	8880.134	-658.365	657.6814	72.02228	609.6705
#2	16.69948	4.819200	8803.490	-668.003	650.1587	71.23427	568.3513
#3	16.39774	4.706627	8886.679	-663.523	648.6632	73.39396	539.8716
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.237950	-4.96468	26.56927	17.74496	37.00244	1.627938	9.521828
SDEV	.916024	1.79336	.32442	.60307	1.48948	1.648780	.449348
%RSD	21.61479	36.12236	1.221023	3.398552	4.025349	101.2803	4.719138
#1	3.889653	-6.87646	26.94374	18.42007	35.47671	-.028127	9.821426
#2	5.277036	-4.69799	26.39068	17.25953	37.07780	3.269335	9.005157
#3	3.547161	-3.31960	26.37340	17.55527	38.45280	1.642605	9.738899
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.271924	44.54774	33.23260	-15.4518	10.15248	15.40613	-.159370
SDEV	1.931769	1.73059	3.01913	1.8938	2.01063	2.00132	.597046
%RSD	151.8777	3.884788	9.084851	12.25618	19.80431	12.99040	374.6284
#1	.5002712	46.54554	29.94775	-15.8225	7.854687	17.71682	.5046489
#2	3.470247	43.50970	33.86384	-13.4001	11.58902	14.27928	-.651919
#3	-.154747	43.58799	35.88620	-17.1329	11.01373	14.22228	-.330840
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.689536	400.9520	4780.377
SDEV	.719505	1.2114	19.511
%RSD	42.58593	.3021233	.4081537
#1	.8622455	399.9040	4785.333
#2	2.037002	400.6737	4796.933
#3	2.169361	402.2783	4758.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 18:09:48
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	103.3551	46331.57	902.7579	1064.485	49929.80	1005.878	1045.503
SDEV	1.0488	130.60	4.1787	1.918	134.60	5.058	15.129
%RSD	1.014778	.2818884	.4628760	.1802089	.2695877	.5027991	1.447072
#1	103.9917	46335.68	905.9586	1062.455	49781.38	1001.313	1032.718
#2	103.9290	46198.95	904.2845	1064.735	50043.97	1005.007	1041.584
#3	102.1445	46460.06	898.0306	1066.267	49964.04	1011.315	1062.206
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1004.690	1016.910	25879.49	50322.94	51119.91	1037.701	48808.27
SDEV	20.925	3.305	367.22	463.19	646.76	17.060	262.31
%RSD	2.082773	.3250010	1.418951	.9204385	1.265187	1.644049	.5374252
#1	984.2473	1018.572	25541.85	49934.86	50539.79	1019.992	48561.43
#2	1003.757	1019.054	25826.15	50198.25	51002.66	1039.083	48779.68
#3	1026.067	1013.104	26270.46	50835.72	51817.28	1054.028	49083.71
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1007.322	1023.822	1009.486	1127.721	998.9175	1016.581	1018.831
SDEV	5.280	7.249	7.928	12.774	6.6520	9.370	1.486
%RSD	.5241300	.7080502	.7853490	1.132705	.6659208	.9217460	.1458319
#1	1002.097	1017.309	1002.943	1115.374	991.3036	1010.290	1018.442
#2	1007.216	1022.526	1007.214	1126.907	1001.846	1012.103	1017.578
#3	1012.654	1031.632	1018.303	1140.883	1003.602	1027.350	1020.472
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1046.347	1000.363	998.1925	1034.415	1007.675	1072.596	1000.864
SDEV	7.889	7.475	7.5765	8.144	10.732	11.434	3.563
%RSD	.7539897	.7472323	.7590227	.7873188	1.065075	1.066015	.3559566
#1	1038.301	993.1776	990.3649	1033.543	998.6782	1063.352	998.1304
#2	1046.669	1008.097	998.7225	1026.742	1004.793	1069.054	999.5689
#3	1054.070	999.8148	1005.490	1042.960	1019.554	1085.382	1004.893
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1045.340	993.2190	4947.644
SDEV	3.507	2.6287	45.120
%RSD	.3355086	.2646628	.9119497
#1	1049.362	995.8896	4986.999
#2	1043.736	993.1329	4957.533
#3	1042.921	990.6344	4898.400
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 18:16:58
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.292199	4.975264	.0294722	-.013973	381.2724	-.450035	-2.88676
SDEV	.219149	2.728355	.0189274	.135470	1.8133	.252190	.43749
%RSD	75.00001	54.83840	64.22121	969.4878	.4755896	56.03788	15.15523
#1	-.542656	7.382328	.0079769	.0171718	380.6506	-.178133	-3.38861
#2	-.135664	5.531977	.0367979	.1032119	379.8519	-.676273	-2.68593
#3	-.198278	2.011489	.0436418	-.162304	383.3148	-.495700	-2.58574
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.201446	-1.27583	2.233714	-1427.68	10.82870	.2497087	22.60530
SDEV	.265765	.18546	3.979497	4.12	2.55315	.0534277	90.02010
%RSD	131.9284	14.53683	178.1560	.2887600	23.57759	21.39600	398.2256
#1	.0312501	-1.34016	-.060423	-1431.95	8.791268	.3112960	-80.8376
#2	-.144531	-1.42057	-.067273	-1427.35	10.00210	.2220406	65.47884
#3	-.491058	-1.06676	6.828839	-1423.72	13.69274	.2157895	83.17471
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.435080	4.106097	.1962456	.3453668	1.359624	2.208031	-.873560
SDEV	.294935	.193767	.1835314	.1597926	.776228	.998451	1.084445
%RSD	67.78863	4.718996	93.52128	46.26751	57.09135	45.21906	124.1408
#1	-.523485	4.322386	.3567373	.5043842	1.663444	1.429811	-.088571
#2	-.675701	3.948355	.2358562	.1848101	1.937987	1.860471	-.421150
#3	-.106053	4.047552	-.003857	.3469062	.4774402	3.333813	-2.11096
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.94057	2.171319	.9518713	2.790658	1.914641	-1.18288	.5699629
SDEV	2.40313	3.063760	.4838475	2.300031	.449028	2.53242	2.038871
%RSD	123.8367	141.1013	50.83118	82.41894	23.45235	214.0898	357.7199
#1	-2.70589	2.552368	1.217113	.6192817	1.831932	.5196974	-.754033
#2	-3.86783	5.026731	.3934060	2.551965	1.512717	.0247383	2.917864
#3	.7520226	-1.06514	1.245095	5.200728	2.399274	-4.09307	-.453943
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.357254	.1165113	4807.466
SDEV	.893862	.2360635	56.482
%RSD	65.85811	202.6098	1.174881
#1	2.379651	.3308432	4765.133
#2	.9686030	-.136505	4785.667
#3	.7235089	.1551959	4871.600
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-16RE1 OPERATOR:
RUN TIME: 06/02/10 18:24:06
COMMENT: SDG:1005129 CLIENTID:SB59-9-10 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.657448	59038.11	66.49510	.7756721	1099.318	-.963089	-6.64252
SDEV	.095645	393.52	.68401	.1456292	11.495	.281627	.54084
%RSD	14.54786	.6665520	1.028662	18.77458	1.045661	29.24206	8.142070
#1	-.573963	58784.21	67.06256	.9429622	1086.126	-.642938	-6.30931
#2	-.636577	59491.42	66.68714	.7068057	1107.183	-1.17257	-6.35171
#3	-.761805	58838.70	65.73560	.6772486	1104.646	-1.07376	-7.26655
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	110.2690	14.69347	64600.20	4486.535	3562.099	66.11494	575.4518
SDEV	2.5041	.30556	813.48	37.480	41.035	1.19671	29.6802
%RSD	2.270938	2.079535	1.259258	.8353779	1.151979	1.810049	5.157722
#1	107.3805	14.35575	63677.97	4516.811	3516.105	64.73364	593.3510
#2	111.8278	14.95078	65215.81	4498.178	3594.958	66.83929	591.8128
#3	111.5988	14.77388	64906.84	4444.616	3575.233	66.77189	541.1915
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.08240	-8.34492	193.9303	42.97816	54.14737	5.473028	7.167231
SDEV	.97196	1.99728	3.4479	.96776	2.35120	2.615796	1.321084
%RSD	9.640115	23.93412	1.777916	2.251738	4.342218	47.79430	18.43228
#1	9.346779	-6.17840	189.9640	41.87535	51.87783	5.216259	6.356488
#2	11.18427	-8.74352	196.2126	43.37329	56.57250	2.995086	8.691658
#3	9.716162	L-10.1129	195.6142	43.68583	53.99180	8.207739	6.453546
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.08985	55.67181	53.38348	-10.6859	13.53787	17.44973	-1.42014
SDEV	1.09716	1.98042	3.46044	3.4677	3.76392	2.10194	1.51045
%RSD	3.905896	3.557306	6.482233	32.45081	27.80290	12.04567	106.3595
#1	29.05756	56.50832	49.56322	-6.99843	11.31193	19.81581	-.443054
#2	28.31409	57.09672	56.30794	-13.8812	11.41804	16.73512	-3.15986
#3	26.89789	53.41040	54.27927	-11.1781	17.88364	15.79828	-.657501
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	16.88677	819.2800	4825.311
SDEV	.79857	11.5978	24.911
%RSD	4.728974	1.415603	.5162530
#1	17.77915	806.5905	4805.267
#2	16.23943	829.3315	4817.466
#3	16.64173	821.9180	4853.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-17RE1 OPERATOR:
RUN TIME: 06/02/10 18:31:14
COMMENT: SDG:1005129 CLIENTID:SB85-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.678320	54313.31	60.79040	.3642932	1214.493	-.728074	-2.52852
SDEV	.208453	86.49	.93551	.1778626	12.187	.267493	.50103
%RSD	30.73075	.1592516	1.538906	48.82402	1.003467	36.73985	19.81495
#1	-.573963	54348.88	59.76588	.2205198	1226.089	-.421531	-1.95482
#2	-.918341	54376.35	61.00608	.3091680	1215.599	-.848543	-2.75078
#3	-.542656	54214.70	61.59922	.5631917	1201.790	-.914150	-2.87998
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	47.08033	6.749024	7368.735	97.20812	1555.766	27.81784	479.0935
SDEV	1.75920	.265716	55.765	20.25372	10.031	.42816	38.8470
%RSD	3.736600	3.937100	.7567796	20.83542	.6447511	1.539169	8.108428
#1	47.86595	7.006333	7431.538	79.39562	1567.304	28.20938	444.7864
#2	48.30982	6.765106	7349.645	92.98998	1549.114	27.88350	471.2201
#3	45.06520	6.475632	7325.021	119.2387	1550.881	27.36064	521.2741
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.888924	-3.57956	68.94258	25.60675	34.75000	2.602433	10.67024
SDEV	.731727	2.17322	.86665	.86630	1.14207	1.971247	2.67414
%RSD	7.399456	60.71194	1.257061	3.383100	3.286533	75.74631	25.06167
#1	10.12242	-3.50432	69.77348	26.59759	35.44046	3.621977	13.22101
#2	10.47540	-5.78943	69.01013	25.23038	35.37779	3.855107	10.90190
#3	9.068944	-1.44494	68.04413	24.99230	33.43174	.3302161	7.887804
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.390697	39.24803	32.50143	-16.0602	11.91717	13.67871	-.632875
SDEV	1.995556	1.14874	2.19889	.7452	2.85495	2.46473	1.597991
%RSD	143.4933	2.926876	6.765508	4.640167	23.95662	18.01876	252.4971
#1	2.556972	39.36692	33.47724	-15.2069	13.01970	11.24934	-2.04229
#2	2.528633	38.04446	34.04353	-16.5833	14.05646	13.60944	-.959546
#3	-.913515	40.33270	29.98351	-16.3903	8.675354	16.17734	1.103210
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.807068	545.8334	4641.822
SDEV	.781401	5.8295	9.135
%RSD	43.24136	1.068008	.1967891
#1	1.473723	551.2999	4641.999
#2	1.247623	546.5020	4650.866
#3	2.699859	539.6984	4632.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-18RE1 OPERATOR:
RUN TIME: 06/02/10 18:38:23
COMMENT: SDG:1005129 CLIENTID:SB89-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.480042	38999.21	70.85504	-.228758	2418.235	-.583003	-2.65195
SDEV	.136464	410.45	1.26847	.122881	7.392	.116337	.23803
%RSD	28.42760	1.052452	1.790228	53.71666	.3056612	19.95470	8.975838
#1	-.573963	39471.62	71.99584	-.148025	2412.214	-.587637	-2.82083
#2	-.323506	38796.07	71.08021	-.168073	2426.485	-.696954	-2.37971
#3	-.542656	38729.96	69.48907	-.370177	2416.008	-.464419	-2.75532
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	40.31076	8.898634	18066.24	-415.609	1196.055	60.45228	412.9046
SDEV	.55581	.080944	137.27	7.106	9.969	.31490	21.6960
%RSD	1.378806	.9096217	.7597959	1.709858	.8334851	.5209136	5.254474
#1	39.73983	8.887912	17916.34	-408.725	1185.634	60.09736	428.2676
#2	40.85010	8.984405	18185.79	-415.184	1205.500	60.56126	388.0855
#3	40.34235	8.823586	18096.60	-422.918	1197.031	60.69822	422.3608
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.94487	-4.12989	54.30313	27.21120	35.12524	1.738070	8.907497
SDEV	.96596	3.34739	.55564	.68890	.88972	1.459694	1.958580
%RSD	6.926987	81.05264	1.023213	2.531683	2.532983	83.98363	21.98799
#1	14.79273	-4.06184	54.12154	26.61058	34.71014	2.692364	8.036923
#2	14.14858	-.817050	53.86101	27.96320	36.14665	.0577191	11.15044
#3	12.89331	-7.51079	54.92685	27.05981	34.51894	2.464126	7.535132
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.789832	40.55979	32.40927	-13.5210	9.353682	15.28842	-.732706
SDEV	.382562	2.92628	2.61785	4.5687	.888049	2.40274	1.157334
%RSD	10.09443	7.214726	8.077466	33.78943	9.494107	15.71606	157.9533
#1	3.430806	43.61912	30.25954	-9.08244	8.568459	16.99124	-2.00124
#2	4.192233	37.78775	35.32455	-18.2095	9.175156	16.33397	.2656185
#3	3.746458	40.27250	31.64372	-13.2710	10.31743	12.54005	-.462497
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.912522	556.0262	4898.066
SDEV	1.278540	6.3908	33.413
%RSD	66.85098	1.149379	.6821618
#1	3.153222	562.6295	4872.999
#2	1.985109	555.5776	4885.200
#3	.5992351	549.8715	4935.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-19RE1 OPERATOR:
RUN TIME: 06/02/10 18:45:31
COMMENT: SDG:1005129 CLIENTID:SB89-6.5-7.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.511349	52765.86	106.5149	.5617221	4456.157	-.941520	-4.00558
SDEV	.219149	435.83	1.6080	.1925021	52.602	.142189	.19368
%RSD	42.85715	.8259759	1.509621	34.26998	1.180435	15.10209	4.835341
#1	-.667884	53215.01	105.1840	.3621283	4509.917	-1.01370	-3.79057
#2	-.260892	52344.69	106.0591	.5767912	4453.759	-1.03314	-4.16639
#3	-.605270	52737.86	108.3015	.7462468	4404.795	-.777718	-4.05979
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	79.20229	10.13158	27967.75	2763.704	2415.787	41.25956	480.7348
SDEV	.95647	.32971	86.76	48.336	10.973	.12947	44.3605
%RSD	1.207628	3.254293	.3102154	1.748965	.4542291	.3137890	9.227636
#1	80.09888	10.46394	28056.37	2727.563	2426.546	41.36893	461.7269
#2	79.31250	10.12622	27963.91	2744.941	2416.203	41.11661	531.4320
#3	78.19549	9.804579	27882.98	2818.609	2404.611	41.29314	449.0457
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.070484	-4.86410	133.3970	23.61229	49.51344	2.649206	10.07778
SDEV	.167926	3.36325	1.4932	.29650	.62109	1.991837	.99635
%RSD	1.851344	69.14442	1.119399	1.255715	1.254385	75.18619	9.886586
#1	9.256095	-.995781	135.0980	23.51635	50.20245	.6481298	10.49126
#2	8.929092	-6.50066	132.7908	23.94488	49.34127	2.667815	10.80083
#3	9.026266	-7.09585	132.3022	23.37563	48.99659	4.631673	8.941267
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	51.66964	49.93238	49.30138	-15.7411	11.82801	16.48072	-1.03598
SDEV	.54410	1.32496	1.53051	6.6356	1.84999	.46661	1.03203
%RSD	1.053038	2.653506	3.104391	42.15469	15.64076	2.831269	99.61877
#1	51.04272	48.46542	51.06678	-23.3835	12.64339	16.98233	.0972939
#2	51.94746	51.04208	48.48925	-11.4436	9.710403	16.40025	-1.92176
#3	52.01875	50.28964	48.34812	-12.3962	13.13026	16.05957	-1.28347
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	6.686127	671.7146	4708.822
SDEV	.529217	7.5007	36.956
%RSD	7.915148	1.116652	.7848296
#1	6.091466	672.5291	4739.999
#2	7.105336	678.7748	4718.466
#3	6.861579	663.8398	4667.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-20RE1 OPERATOR:
RUN TIME: 06/02/10 18:52:39
COMMENT: SDG:1005129 CLIENTID:SB78-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.553092	87221.82	290.9422	.3732135	13898.13	-.203403	-3.75278
SDEV	.157575	1695.80	3.4861	.3023293	185.75	.318625	.60792
%RSD	28.48994	1.944236	1.198224	81.00706	1.336505	156.6473	16.19911
#1	-.386120	88912.79	294.9664	.7131691	14080.93	.1521273	-3.23856
#2	-.573963	87231.43	289.0179	.1344926	13903.89	-.463148	-3.59607
#3	-.699191	85521.23	288.8424	.2719787	13709.56	-.299188	-4.42371
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	112.9391	12.48489	51788.81	2358.667	3508.815	86.49995	791.2905
SDEV	3.8274	.04913	959.66	77.093	68.077	1.77970	44.0568
%RSD	3.388927	.3935208	1.853021	3.268495	1.940160	2.057456	5.567721
#1	114.4285	12.47417	52616.73	2446.711	3572.642	87.50462	840.8517
#2	115.7979	12.53850	52012.69	2326.021	3516.639	87.55013	776.4485
#3	108.5909	12.44200	50737.00	2303.268	3437.165	84.44510	756.5714
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.56710	-8.35653	149.6086	111.9311	146.1635	4.100014	9.521119
SDEV	.25328	1.56658	4.2883	.7389	1.9342	1.365379	1.262481
%RSD	1.294412	18.74671	2.866327	.6601692	1.323283	33.30180	13.25980
#1	19.36863	-6.99051	153.0418	112.7515	146.3950	3.408136	10.91605
#2	19.85236	-8.01258	150.9821	111.3178	147.9714	5.672834	9.190374
#3	19.48030	L-10.0665	144.8018	111.7240	144.1239	3.219071	8.456932
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.53794	147.8658	145.3105	-14.4280	13.34767	17.58125	-.882931
SDEV	1.53270	1.6189	3.0666	5.2791	1.48361	2.23809	2.238382
%RSD	9.864266	1.094829	2.110372	36.58935	11.11509	12.73001	253.5172
#1	16.81446	149.7060	144.7389	-19.7138	14.94925	18.89966	-2.53436
#2	15.96132	146.6609	148.6226	-9.15558	13.07349	14.99710	1.664684
#3	13.83805	147.2307	142.5699	-14.4146	12.02029	18.84699	-1.77912
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.876922	598.6161	4926.689
SDEV	.289957	10.7998	98.775
%RSD	7.479055	1.804120	2.004903
#1	3.847633	610.3782	4815.333
#2	3.602721	596.3232	4960.999
#3	4.180412	589.1469	5003.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-BLK1 OPERATOR:
RUN TIME: 06/02/10 18:59:48
COMMENT: SDG:1005068 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.302635	-32.9924	-.075921	-.842724	412.1234	-1.06713	-4.90182
SDEV	.251108	7.0465	.092906	.171782	18.7459	.17666	.46316
%RSD	82.97386	21.35799	122.3717	20.38413	4.548615	16.55444	9.448698
#1	-.041743	-40.6481	.0246736	-1.03682	432.8722	-1.24659	-5.40491
#2	-.323506	-26.7779	-.158499	-.781095	407.0900	-.893417	-4.49315
#3	-.542656	-31.5514	-.093938	-.710259	396.4081	-1.06139	-4.80740
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3664982	-1.39912	4.254884	L-1438.56	5.531626	.2131080	72.23095
SDEV	.3797055	.16427	9.830393	7.74	3.434500	.0863303	91.04364
%RSD	103.6036	11.74065	231.0379	.5380846	62.08844	40.51013	126.0452
#1	.1000311	-1.51706	.5326595	L-1431.00	8.255225	.2050486	173.9768
#2	.8012657	-1.21150	15.40284	L-1446.47	6.666282	.3031854	44.26597
#3	.1981980	-1.46881	-3.17085	L-1438.21	1.673370	.1310900	-1.54996
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.227052	-1.11779	.1415340	1.076380	1.142354	.9284576	1.308901
SDEV	1.065538	2.39886	.3530000	.483207	.479265	1.288449	.782749
%RSD	469.2928	214.6071	249.4100	44.89183	41.95415	138.7731	59.80198
#1	-.007557	-3.88708	.5429778	.9601411	.8004649	2.246345	1.113260
#2	.7116464	.3200717	.0019774	1.607104	1.690166	.8674120	.6425297
#3	-1.38524	.2136284	-.120353	.6618946	.9364316	-.328384	2.170913
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.54137	2.161612	.6310304	-6.40119	4.585326	3.723815	-1.18081
SDEV	.64641	4.819572	2.995070	2.58948	2.839154	2.658015	1.48991
%RSD	25.43565	222.9620	474.6316	40.45314	61.91825	71.37882	126.1775
#1	-2.18433	7.599931	-2.59657	-6.63584	6.678378	5.779913	-.776380
#2	-2.15223	-1.58068	3.320647	-8.86535	5.724011	.7223452	-2.83118
#3	-3.28756	.4655816	1.169017	-3.70236	1.353590	4.669186	.0651401
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.165642	-.034157	4914.733
SDEV	.613043	.125856	100.058
%RSD	370.1005	368.4590	2.035882
#1	.0569188	-.136629	5030.266
#2	-.858878	.1063217	4856.133
#3	.3050321	-.072165	4857.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-BS1 OPERATOR:
RUN TIME: 06/02/10 19:06:57
COMMENT: SDG:1005068 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	786.7258	64925.52	1355.441	1363.415	39671.04	2094.602	659.3401
SDEV	11.8266	916.98	5.747	1.092	232.75	20.847	2.9047
%RSD	1.503272	1.412361	.4239623	.0800706	.5866877	.9952686	.4405499
#1	775.7161	65849.35	1349.415	1362.787	39406.53	2072.685	657.2976
#2	799.2277	64015.54	1356.050	1364.676	39844.50	2114.182	658.0574
#3	785.2335	64911.65	1360.859	1362.784	39762.08	2096.939	662.6654
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	558.3253	1347.661	114179.2	24257.16	19505.92	2887.110	3932.125
SDEV	4.3909	2.503	303.4	449.27	149.24	19.285	147.670
%RSD	.7864433	.1857256	.2657601	1.852124	.7651213	.6679733	3.755466
#1	562.8956	1347.784	114517.1	24704.46	19643.15	2896.657	4063.912
#2	554.1390	1350.100	113930.0	23805.94	19347.03	2864.913	3959.937
#3	557.9412	1345.098	114090.5	24261.09	19527.60	2899.759	3772.527
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	460.6846	1433.484	638.6471	1067.487	694.0258	716.2355	498.7188
SDEV	4.0163	4.751	7.8050	12.614	6.7872	4.0469	2.9086
%RSD	.8718176	.3314342	1.222109	1.181680	.9779489	.5650186	.5832210
#1	456.2380	1430.195	646.7523	1053.067	687.1097	716.2857	496.1056
#2	464.0488	1438.931	631.1817	1076.475	694.2911	712.1638	498.1983
#3	461.7671	1431.326	638.0074	1072.921	700.6764	720.2571	501.8526
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	749.6104	695.7281	693.1730	712.6111	718.0424	1681.424	-1.45155
SDEV	2.2577	13.6520	16.5822	12.2658	10.6719	3.579	2.86676
%RSD	.3011860	1.962265	2.392219	1.721252	1.486249	.2128556	197.4963
#1	751.8870	705.0427	678.1539	724.5168	712.1736	1684.767	-.466006
#2	747.3721	702.0847	690.3972	713.3022	711.5928	1681.857	.7924328
#3	749.5720	680.0569	710.9680	700.0143	730.3607	1677.648	-4.68108
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	573.3167	2521.816	5057.311
SDEV	4.9761	13.448	75.946
%RSD	.8679449	.5332730	1.501699
#1	569.2603	2536.736	4985.400
#2	578.8692	2510.628	5136.733
#3	571.8207	2518.083	5049.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-11 OPERATOR:
RUN TIME: 06/02/10 19:14:05
COMMENT: SDG:1005068 CLIENTID:SDZ-SD15 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.386120	14097.06	27.71099	.0892702	214510.8	-.614607	-.962923
SDEV	.125228	224.85	.47468	.3426481	5109.8	.076034	.859010
%RSD	32.43244	1.595043	1.712970	383.8325	2.382085	12.37111	89.20859
#1	-.260892	14021.23	27.25814	.2974798	209305.5	-.591072	-1.68470
#2	-.386120	14350.02	28.20484	.2765318	219519.5	-.553124	-.012819
#3	-.511349	13919.92	27.66999	-.306201	214707.5	-.699626	-1.19125
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	69.75699	6.046782	22373.74	3331.852	13721.36	164.1818	34146.50
SDEV	.87285	.276839	370.77	96.079	228.11	2.5525	644.54
%RSD	1.251275	4.578284	1.657170	2.883640	1.662441	1.554674	1.887577
#1	69.00128	5.928848	22093.44	3367.475	13570.06	162.0224	33977.67
#2	70.71238	5.848440	22794.15	3405.031	13983.73	166.9987	34858.66
#3	69.55730	6.363060	22233.63	3223.050	13610.29	163.5242	33603.18
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.17167	-1.50431	54.34266	65.26463	18.64126	2.850980	7.768492
SDEV	.51191	.83150	.82984	1.52896	1.32713	1.430945	.859536
%RSD	4.205766	55.27459	1.527051	2.342707	7.119290	50.19133	11.06439
#1	12.08513	-2.31075	54.23968	63.74583	18.84239	1.567974	6.834161
#2	12.72133	-.649828	55.21919	66.80355	19.85634	2.590804	7.945707
#3	11.70854	-1.55236	53.56912	65.24452	17.22505	4.394162	8.525608
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.80482	23.97370	15.97598	-12.9870	10.75564	18.61317	.0925703
SDEV	.73007	2.38402	2.08055	3.9451	.17712	.89439	1.748490
%RSD	4.931294	9.944301	13.02300	30.37737	1.646809	4.805125	1888.824
#1	15.64372	26.71509	14.90888	-16.5545	10.61316	19.64398	-.363778
#2	14.45740	22.82010	18.37357	-13.6565	10.69980	18.04308	-1.38250
#3	14.31335	22.38592	14.64548	-8.74994	10.95396	18.15244	2.023984
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	4.167395	382.4231	4953.755
SDEV	.372638	6.8497	81.819
%RSD	8.941752	1.791133	1.651649
#1	4.435955	378.3962	4958.066
#2	4.324259	390.3320	4869.866
#3	3.741969	378.5411	5033.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-DUP1 OPERATOR:
RUN TIME: 06/02/10 19:21:14
COMMENT: SDG:1005068 CLIENTID:SDZ-SD15D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.511349	15208.01	30.19981	.7338086	235525.0	-.584335	-1.54971
SDEV	.301914	124.14	.37016	.1200387	4926.5	.470928	.79494
%RSD	59.04276	.8162508	1.225717	16.35831	2.091704	80.59206	51.29610
#1	-.636577	15295.26	30.32196	.6319478	230542.8	-1.09527	-2.46223
#2	-.166971	15065.90	29.78400	.8661488	235638.4	-.490069	-1.17950
#3	-.730498	15262.88	30.49345	.7033291	240393.8	-.167670	-1.00739
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	69.53558	6.095028	22347.91	3655.546	13755.52	166.7748	33862.09
SDEV	1.53482	.234340	530.17	38.953	230.34	2.8784	130.32
%RSD	2.207247	3.844773	2.372332	1.065579	1.674504	1.725941	.3848630
#1	68.24895	6.363060	21806.57	3700.523	13521.91	163.8235	33799.51
#2	69.12339	5.993176	22371.01	3632.803	13762.23	166.9264	34011.89
#3	71.23441	5.928848	22866.15	3633.311	13982.44	169.5744	33774.85
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.87709	-4.03501	56.44276	59.92925	19.55530	2.246693	6.554184
SDEV	.55670	3.37899	1.21330	2.01507	.48725	1.727290	2.110392
%RSD	4.687213	83.74193	2.149610	3.362420	2.491667	76.88145	32.19915
#1	11.44900	-.135061	55.10358	57.61024	19.64167	1.121003	8.685132
#2	11.67584	-5.88296	56.75590	60.92392	19.03063	4.235423	6.512453
#3	12.50644	-6.08700	57.46879	61.25359	19.99359	1.383653	4.464967
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.87193	25.84226	16.41332	-9.46249	8.089939	17.65622	.3524168
SDEV	1.83821	2.95140	2.14533	6.48227	.727171	2.65053	2.280186
%RSD	12.36029	11.42081	13.07065	68.50491	8.988581	15.01188	647.0141
#1	16.42884	23.79065	17.56708	-12.9504	8.143589	14.97147	-2.24357
#2	12.84406	29.22474	13.93801	-1.98306	7.337429	20.27115	2.031055
#3	15.34291	24.51139	17.73488	-13.4540	8.788799	17.72605	1.269765
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.309940	408.3257	4718.844
SDEV	.116174	2.7579	13.633
%RSD	5.029298	.6754201	.2888969
#1	2.422573	406.7172	4713.533
#2	2.316724	406.7498	4708.667
#3	2.190522	411.5102	4734.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-MS1 OPERATOR:
RUN TIME: 06/02/10 19:28:22
COMMENT: SDG:1005068 CLIENTID:SDZ-SD15S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	46.62666	21276.72	1798.399	49.98559	210611.4	45.56446	486.0865
SDEV	.78289	232.53	35.141	.74012	3398.3	1.01040	10.6980
%RSD	1.679052	1.092890	1.954018	1.480667	1.613548	2.217511	2.200851
#1	45.72919	21419.89	1835.194	50.51411	210093.5	46.20999	494.7293
#2	47.16931	21008.42	1765.185	49.13971	207501.8	44.40004	474.1215
#3	46.98148	21401.86	1794.820	50.30294	214239.0	46.08334	489.4087
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	260.7834	251.5633	24376.32	4064.359	13814.76	651.4912	32639.99
SDEV	3.8984	1.5680	442.14	110.122	213.66	9.5029	506.88
%RSD	1.494891	.6233181	1.813792	2.709463	1.546609	1.458643	1.552927
#1	262.7540	250.0034	24654.12	4184.528	13978.19	659.9873	33149.61
#2	256.2931	251.5472	23866.47	3968.268	13572.98	641.2292	32135.91
#3	263.3032	253.1393	24608.36	4040.280	13893.10	653.2571	32634.44
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	472.6397	42.06549	543.8033	517.9885	37.00830	9.744656	376.8766
SDEV	10.4503	2.88619	7.5452	7.4006	.58626	1.785405	4.7914
%RSD	2.211058	6.861179	1.387486	1.428724	1.584143	18.32189	1.271346
#1	481.1458	42.17358	544.4769	521.6258	36.81609	8.854112	382.4042
#2	460.9742	39.12678	535.9440	509.4731	36.54226	8.579688	373.9081
#3	475.7990	44.89612	550.9892	522.8667	37.66654	11.80017	374.3176
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	50.35269	41.38144	34.82248	-3.40050	16.30485	992.0631	941.3394
SDEV	.44698	2.68561	1.16934	4.18059	1.21876	12.6158	17.7417
%RSD	.8877066	6.489891	3.357998	122.9406	7.474800	1.271676	1.884726
#1	50.86781	43.48899	33.48207	-3.35948	14.94917	996.8873	960.0895
#2	50.06716	38.35759	35.63348	-7.60144	16.65564	977.7471	924.8165
#3	50.12310	42.29773	35.35189	.7594334	17.30974	1001.555	939.1121
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	968.3910	1340.374	4798.333
SDEV	12.1553	18.191	96.730
%RSD	1.255204	1.357139	2.015905
#1	981.4766	1331.811	4693.466
#2	957.4520	1328.045	4884.066
#3	966.2446	1361.266	4817.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 06/02/10 19:35:31
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	102.8855	46335.64	910.4551	1062.768	49613.46	996.2866	1033.493
SDEV	1.1106	216.80	16.2168	5.519	531.22	6.4496	3.655
%RSD	1.079411	.4679005	1.781180	.5192674	1.070716	.6473653	.3536915
#1	104.0856	46095.88	Q894.6168	1065.970	50069.50	1002.465	1037.383
#2	102.6767	46393.19	909.7228	1065.939	49740.72	989.5964	1030.130
#3	101.8941	46517.88	927.0256	1056.396	49030.18	996.7980	1032.965
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	996.7139	1017.366	25546.23	50059.07	50496.33	1030.863	48423.72
SDEV	8.7626	3.203	117.89	766.37	65.20	6.622	297.48
%RSD	.8791476	.3148627	.4614609	1.530932	.1291152	.6424068	.6143262
#1	1005.990	1019.231	25682.33	49298.82	50571.42	1038.286	48196.32
#2	995.5761	1019.199	25480.20	50047.00	50454.14	1028.738	48314.46
#3	988.5759	1013.667	25476.16	50831.41	50463.42	1025.563	48760.38
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	997.8743	1018.019	1001.248	1103.732	995.1092	1019.910	1018.002
SDEV	3.7182	10.300	11.511	11.975	7.8936	4.050	4.711
%RSD	.3726101	1.011791	1.149625	1.084920	.7932394	.3970826	.4627675
#1	1000.642	1017.090	1014.539	1117.006	1003.700	1017.253	1012.630
#2	993.6479	1008.214	994.5747	1100.447	988.1767	1017.906	1021.427
#3	999.3333	1028.752	994.6299	1093.743	993.4506	1024.571	1019.949
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1044.143	992.3252	996.4962	1031.233	1014.255	1058.953	999.1827
SDEV	3.980	8.0673	7.8422	7.099	4.979	6.259	7.5512
%RSD	.3811503	.8129668	.7869821	.6883846	.4909236	.5910338	.7557396
#1	1039.635	1000.720	1005.186	1023.036	1014.363	1066.175	991.4992
#2	1045.624	984.6305	989.9442	1035.296	1009.222	1055.571	999.4547
#3	1047.170	991.6257	994.3590	1035.367	1019.179	1055.113	1006.594
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1040.095	997.2296	4947.111
SDEV	6.202	3.0980	54.483
%RSD	.5962694	.3106590	1.101303
#1	1039.947	1000.472	4996.933
#2	1033.969	996.9172	4955.466
#3	1046.370	994.2996	4888.933
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 06/02/10 19:42:39
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.553092	-31.7934	-.158296	-.828920	373.5611	-.343206	-2.91659
SDEV	.862130	5.4165	.074788	.158538	2.5253	.071300	.05455
%RSD	155.8747	17.03641	47.24601	19.12582	.6759951	20.77470	1.870199
#1	.0208714	-25.9972	-.101544	-.678526	372.0204	-.284593	-2.90951
#2	-.135664	-32.6565	-.130301	-.813726	372.1875	-.422583	-2.86593
#3	-1.54448	-36.7265	-.243043	-.994507	376.4754	-.322443	-2.97433
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1667984	-1.47417	-.335445	-1443.07	-1.06447	.1007215	-82.8825
SDEV	.3889897	.35025	4.768344	7.36	1.54308	.1020457	124.9236
%RSD	233.2094	23.75912	1421.496	.5100012	144.9623	101.3147	150.7237
#1	-.232889	-1.75828	-3.08733	-1438.98	.0817525	.0418987	10.54595
#2	.1891594	-1.58138	-3.08957	-1438.67	-.456173	.0417121	-34.4167
#3	.5441253	-1.08285	5.170564	-1451.57	-2.81900	.2185537	-224.777
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.337852	.4881041	-.323189	.9182939	-.311997	.7404821	-1.43931
SDEV	.390965	.9463388	1.151472	.1758110	.798099	.6213053	2.24187
%RSD	115.7207	193.8805	356.2848	19.14539	255.8029	83.90552	155.7603
#1	-.456097	1.563490	.1016793	.8127857	-.724431	.0245632	-3.49403
#2	-.656045	-.217565	.5554790	1.121250	-.819493	1.138634	-1.77559
#3	.0985861	.1183877	-1.62672	.8208464	.6079316	1.058249	.9517082
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.277751	-1.29496	.1762914	-2.72188	2.466611	-1.33808	-1.26958
SDEV	.730466	5.10934	3.717375	4.16590	2.340333	1.93037	2.98434
%RSD	262.9934	394.5543	2108.653	153.0522	94.88049	144.2647	235.0656
#1	-.714220	2.664091	-2.41859	-2.05975	1.062717	-2.77889	1.157844
#2	-.684578	.5136146	-1.48748	1.073297	1.168816	.8552121	-.365032
#3	.5655454	-7.06260	4.434951	-7.17920	5.168300	-2.09055	-4.60155
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.8082805	.1032397	4916.733
SDEV	.5339451	.1970180	65.612
%RSD	66.05938	190.8355	1.334467
#1	1.215534	-.098847	4951.266
#2	1.005535	.1138021	4957.866
#3	.2037724	.2947641	4841.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

Maintenance: none

Method(s) (circle one): ILM04.1 ILM05.4 Others 7471B

Operator(s): NSB 1151 Date/Time 5/20/10 1057 to 5/20/10 1408

Printed: 5/20/2010 2:41:51 PM

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005066	Soil	Complete
1005068	Soil	
1005129	Soil	

Batch
0051437
0051808
0051815

HG Run Log (V4)

File Name: V4052010

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	CAL1	S0	CALIB STD	1.0	20 MAY 10	10:57:41	1818	
	CAL2	S0.2	CALIB STD	1.0	20 MAY 10	10:59:44	3555	
	CAL3	S0.5	CALIB STD	1.0	20 MAY 10	11:01:36	6705	
	CAL4	S1.0	CALIB STD	1.0	20 MAY 10	11:03:30	11813	
	CAL5	S5.0	CALIB STD	1.0	20 MAY 10	11:05:25	50525	
	CAL6	S10.0	CALIB STD	1.0	20 MAY 10	11:07:26	96069	
	ICV1	ICV	ICV	1.0	20 MAY 10	11:09:21	4.00	
	ICB1	ICB	ICB	1.0	20 MAY 10	11:11:11	-.076	
	CRL1	CRI	CRI	1.0	20 MAY 10	11:13:22	.182	
	CCV1	CCV1	CCV	1.0	20 MAY 10	11:15:15	5.16	
	CCB1	CCB1	CCB	1.0	20 MAY 10	11:17:18	-.037	
	0051808-BLK1	PBS	BLANK	1.0	20 MAY 10	11:19:18	-.015	
	0051808-BS1	LCSS	LCS	1.0	20 MAY 10	11:21:07	7.28	
	1005129-05	SS53-0-1	SAMPLE	1.0	20 MAY 10	11:23:17	.093	
	0051808-DUP1	SS53-0-1D	DUPLICATE	1.0	20 MAY 10	11:25:07	.112	
	0051808-MS1	SS53-0-1S	MATRIX SPIKE	1.0	20 MAY 10	11:26:58	1.27	
	0051808-MSD1	SS53-0-1SD	MATRIX SPIKE	1.0	20 MAY 10	11:28:53	1.25	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: [signature] Date: 052310

HG Run Log (V4)

File Name: V4052010

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	SDI1005129-05	SDI1005129-05	SDI	5	20 MAY 10	11:31:03	-.173	
	1005129-01	SS55-00-01	SAMPLE	1.0	20 MAY 10	11:33:03	.095	
	1005129-02	SB55-00-2.5-3	SAMPLE	1.0	20 MAY 10	11:34:53	.059	
	1005129-03	SS54-0-1	SAMPLE	1.0	20 MAY 10	11:36:45	.202	
	CCV2	CCV2	CCV	1.0	20 MAY 10	11:38:47	5.38	
	CCB2	CCB2	CCB	1.0	20 MAY 10	11:40:57	-.000	
	1005129-04	SB54-4-5	SAMPLE	1.0	20 MAY 10	11:42:53	.083	
	1005129-06	SB53-7-8	SAMPLE	1.0	20 MAY 10	11:44:44	-.035	
	1005129-07	SS80-0-1	SAMPLE	1.0	20 MAY 10	11:46:44	.092	
	1005129-08	SB80-3-4	SAMPLE	1.0	20 MAY 10	11:48:55	-.005	
	1005129-09	SS56-0-1	SAMPLE	1.0	20 MAY 10	11:50:45	.206	
	1005129-10	SB56-3-4	SAMPLE	1.0	20 MAY 10	11:52:35	.127	
	1005129-11	SS58-0-1	SAMPLE	1.0	20 MAY 10	11:54:33	.016	
	1005129-12	SS52-0-1	SAMPLE	1.0	20 MAY 10	11:56:33	.028	
	1005129-13	SS57-0-1	SAMPLE	1.0	20 MAY 10	11:58:47	.053	
	1005129-14	SS60-00-01	SAMPLE	1.0	20 MAY 10	12:00:43	.050	
	CCV3	CCV3	CCV	1.0	20 MAY 10	12:02:38	5.07	
	CCB3	CCB3	CCB	1.0	20 MAY 10	12:04:34	-.085	
	1005129-15	SS59-00-01	SAMPLE	1.0	20 MAY 10	12:06:26	.040	
	1005129-16	SB59-9-10	SAMPLE	1.0	20 MAY 10	12:08:20	-.044	
	1005129-17	SS85-0-1	SAMPLE	1.0	20 MAY 10	12:10:25	.148	
	1005129-18	SS89-0-1	SAMPLE	1.0	20 MAY 10	12:12:18	.086	
	1005129-19	SB89-6.5-7.5	SAMPLE	1.0	20 MAY 10	12:14:13	.034	
	1005129-20	SS78-0-1	SAMPLE	1.0	20 MAY 10	12:16:26	.133	
	0051437-BLK1	PBS	BLANK	1.0	20 MAY 10	12:18:29	-.040	
	0051437-BS1	LCSS	LCS	1.0	20 MAY 10	12:20:31	7.56	
	1005066-08	SDZ-SD30	SAMPLE	1.0	20 MAY 10	12:22:29	-.064	
	0051437-DUP1	SDZ-SD30D	DUPLICATE	1.0	20 MAY 10	12:24:35	.004	
	CCV4	CCV4	CCV	1.0	20 MAY 10	12:26:28	5.37	
	CCB4	CCB4	CCB	1.0	20 MAY 10	12:28:20	-.059	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 05 25 10

HG Run Log (V4)

File Name: V4052010

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	0051437-MS1	SDZ-SD30S	MATRIX SPIKE	1.0	20 MAY 10	12:30:10	1.15	
	0051437-MSD1	SDZ-SD30SD	MATRIX SPIKE	1.0	20 MAY 10	12:32:05	1.11	
	SDI1005066-08	SDI1005066-08	SDI	5	20 MAY 10	12:33:57	-.214	RR
	1005066-01	SDZ-SD24	SAMPLE	1.0	20 MAY 10	12:35:47	-.016	
	1005066-02	SDZ-SD25	SAMPLE	1.0	20 MAY 10	12:38:00	-.032	
	1005066-03	SDZ-SD26	SAMPLE	1.0	20 MAY 10	12:39:51	-.021	
	1005066-04	SDZ-SD27	SAMPLE	1.0	20 MAY 10	12:41:56	-.001	
	1005066-05	SDZ-SD29	SAMPLE	1.0	20 MAY 10	12:43:48	.010	
	1005066-06	SDZ-SD29D	SAMPLE	1.0	20 MAY 10	12:45:42	.012	
	1005066-07	SDZ-SD17	SAMPLE	1.0	20 MAY 10	12:47:38	.025	
	CCV5	CCV5	CCV	1.0	20 MAY 10	12:49:34	5.32	
	CCB5	CCB5	CCB	1.0	20 MAY 10	12:51:36	-.048	
	1005066-09	SDZ-SD23	SAMPLE	1.0	20 MAY 10	12:53:27	-.045	
	1005066-10	SDZ-SD23D	SAMPLE	1.0	20 MAY 10	12:55:20	-.029	
	1005066-11	SDZ-SD22	SAMPLE	1.0	20 MAY 10	12:57:26	-.011	
	1005066-12	SDZ-SD05	SAMPLE	1.0	20 MAY 10	12:59:19	.011	
	1005066-13	SDZ-SD28	SAMPLE	1.0	20 MAY 10	13:01:16	.009	
	1005066-14	SDZ-SD08	SAMPLE	1.0	20 MAY 10	13:03:08	.038	
	1005066-15	SDZ-SD07	SAMPLE	1.0	20 MAY 10	13:04:59	-.012	
	1005066-16	SDZ-SD06	SAMPLE	1.0	20 MAY 10	13:07:15	-.017	
	1005066-17	SDZ-SD09	SAMPLE	1.0	20 MAY 10	13:09:27	.001	
	1005066-18	SDZ-SD09D	SAMPLE	1.0	20 MAY 10	13:11:19	.015	
	CCV6	CCV6	CCV	1.0	20 MAY 10	13:13:12	5.34	
	CCB6	CCB6	CCB	1.0	20 MAY 10	13:15:04	-.058	
	1005066-19	SDZ-SD03	SAMPLE	1.0	20 MAY 10	13:17:04	.028	
	1005066-20	SDZ-SD02	SAMPLE	1.0	20 MAY 10	13:18:55	.016	
	0051815-BLK1	PBS	BLANK	1.0	20 MAY 10	13:20:49	-.002	
	0051815-BS1	LCSS	LCS	1.0	20 MAY 10	13:22:41	7.74	
	1005068-11	SDZ-SD15	SAMPLE	1.0	20 MAY 10	13:24:34	-.101	
	0051815-DUP1	SDZ-SD15D	DUPLICATE	1.0	20 MAY 10	13:26:25	-.011	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 05 23 10

HG Run Log (V4)

File Name: V4052010

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	0051815-MS1	SDZ-SD15S	MATRIX SPIKE	1.0	20 MAY 10	13:28:21	1.10	
	0051815-MSD1	SDZ-SD15SD	MATRIX SPIKE	1.0	20 MAY 10	13:30:16	1.06	
	SDI1005068-11	SDI1005068-11	SDI	5	20 MAY 10	13:32:11	-.148	
	1005068-01	SDZ-SD04	SAMPLE	1.0	20 MAY 10	13:34:03	.035	
	CCV7	CCV7	CCV	1.0	20 MAY 10	13:35:54	5.14	
	CCB7	CCB7	CCB	1.0	20 MAY 10	13:37:45	-.061	
	1005068-02	SDZ-SD10	SAMPLE	1.0	20 MAY 10	13:39:38	.017	
	1005068-03	SDZ-SD01	SAMPLE	1.0	20 MAY 10	13:41:32	.160	
	1005068-04	SDZ-SD18	SAMPLE	1.0	20 MAY 10	13:43:23	-.038	
	1005068-05	SDZ-SD20	SAMPLE	1.0	20 MAY 10	13:45:15	-.030	
	1005068-06	SDZ-SD16	SAMPLE	1.0	20 MAY 10	13:47:11	-.041	
	1005068-07	SDZ-SD19	SAMPLE	1.0	20 MAY 10	13:49:06	.000	
	1005068-08	SDZ-SD21	SAMPLE	1.0	20 MAY 10	13:51:02	-.018	
	CCV8	CCV8	CCV	1.0	20 MAY 10	13:53:05	5.16	
	CCB8	CCB8	CCB	1.0	20 MAY 10	13:54:58	-.054	
	1005068-09	SDZ-SD13	SAMPLE	1.0	20 MAY 10	13:56:50	.006	
	1005068-10	SDZ-SD14	SAMPLE	1.0	20 MAY 10	13:58:43	.024	
	1005068-12	SDZ-SD11	SAMPLE	1.0	20 MAY 10	14:00:37	.007	
	1005068-13	SDZ-SD12	SAMPLE	1.0	20 MAY 10	14:02:29	.015	
	SDI1005066-08	SDI1005066-08	SDI	5	20 MAY 10	14:04:25	-.009	
	CCV9	CCV9	CCV	1.0	20 MAY 10	14:06:17	5.10	
	CCB9	CCB9	CCB	1.0	20 MAY 10	14:08:28	-.032	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 05/21/10

Standards/QC Preparation Log for Analysis of Cold Vapor Mercury

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 NNN

Seq. File Name: V4052010

146

REAGENTS	REF # [1]	MANUFACTURER	LOT #	EXPIRATION DATE
Sodium Chloride (NaCL)	1m2-188-15	JTBAKER	H14614	08/12
Hydrochloric Acid (HCL)	OD25012	Caledon	72420	04/13
Hydroxylamine Hydrochloride (NH_2OH-HCL)	0D13003	JT BAKER	H51598	04/13
Stannous Chloride ($SnCL_2$-$2H_2O$)	9L30015	JT BAKER	H13584	12/12

STANDARD LOT NUMBER [2]	PREPARATION INSTRUCTIONS
$SnCL_2$– 05-20-10-NB Stannous chloride	Place in a 1000 mL volumetric flask containing 500 mL of reagent water: 100 g of $SnCl_2$-$2H_2O$ Baker Instra-analyzed or equivalent 250 mL of HCL Baker Instra-analyzed or equivalent Dilute to 1000 mL with reagent water. Prepare as needed
HCL– 05-20-10 – NB Hydrochloric Acid	Place in a 2 L volumetric flask: 1000 mL of deionized water 200 mL of concentrated HCL Baker Instra-analyzed or equivalent Dilute to 2000 mL with reagent water. Prepare as needed
NH_2OH-HCL– 05-20-10 –NB Hydroxylamine hydrochloride	Place in a 2000 ml volumetric flask: 240.0 g of NH_2OH-HCl Baker Instra-analyzed or equivalent 240.0 g NaCl Baker Instra-analyzed or equivalent Dilute to 2000 mL with reagent water. Place solution in a repipetor bottle. Prepare as needed

Standard Solutions Prepared By: W. Barron

Entered By: W. Barron Date: 5/20/10

Reviewed By: Date: 052510

[1]Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

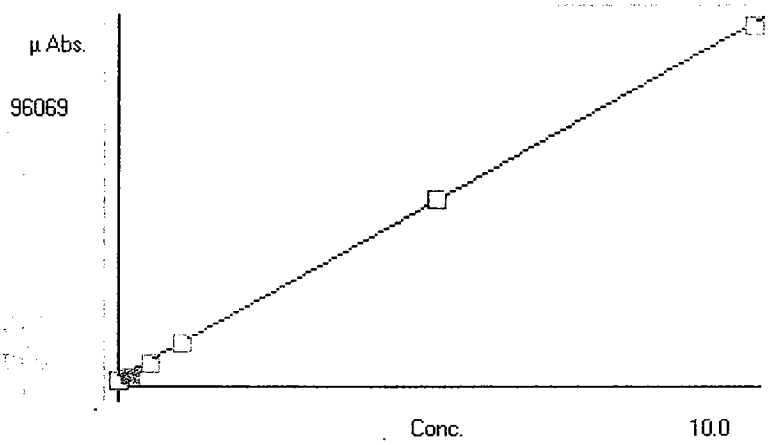
[2]Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

7/24/07: VR

Protocol: INSTIDV4

Folder: V4052010



A

B 1.05722e-4

C -2.20673e-1

Rhc .999859

Accepted Date: 20-May-10 11:07

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.028	-.028	1819	1	1818				
02	.20000	.155	-.045	3555	0%	3555				
03	.50000	.488	-.012	6706	0%	6705				
04	1.0000	1.03	.028	11813	0%	11813				
05	5.0000	5.12	.121	50525	0%	50525				
06	10.000	9.94	-.064	96069	0%	96069				
07										
08										
09										
10										

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 10:57:41 20 May 10 HG

Hg .000 ppb 1818

*** Standard: 2 Rep: 1 Seq: 2 10:59:44 20 May 10 HG

Hg .200 ppb 3555

*** Standard: 3 Rep: 1 Seq: 3 11:01:36 20 May 10 HG

Hg .500 ppb 6705

*** Standard: 4 Rep: 1 Seq: 4 11:03:30 20 May 10 HG

Hg 1.00 ppb 11813

*** Standard: 5 Rep: 1 Seq: 5 11:05:25 20 May 10 HG

Hg 5.00 ppb 50525

*** Standard: 6 Rep: 1 Seq: 6 11:07:26 20 May 10 HG

Hg 10.0 ppb 96069

*** Check Standard: 3 Ck3 ICV Seq: 7 11:09:21 20 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	4.00	4.00	ppb	.000

*** Check Standard: 1 Ck1 ICB Seq: 8 11:11:11 20 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.076	.200	ppb	.000

*** Check Standard: 4 Ck4 CRI Seq: 9 11:13:22 20 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		91.1	.182	.200	ppb	.000

*** Check Standard: 2 Ck2 CCV Seq: 10 11:15:15 20 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	5.16	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 11 11:17:18 20 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.037	.200	ppb	.000

*** Sample ID: PBS Seq: 12 11:19:18 20 May 10 HG
0051808-BLK1

Hg -.015 ppb .000 -.015

==========

*** Sample ID: LCSS Seq: 13 11:21:07 20 May 10 HG
0051808-BS1

Hg 7.28 ppb .000 7.28

==========

*** Sample ID: SS53-0-1 Seq: 14 11:23:17 20 May 10 HG
1005129-05

Hg .093 ppb .000 .093

==========

*** Sample ID: SS53-0-1D Seq: 15 11:25:07 20 May 10 HG
0051808-DUP1

Hg .112 ppb .000 .112

==========

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: SS53-0-1S				Seq: 16	11:26:58 20 May 10	HG		
				0051808-MS1				
Hg	1.27	ppb	.000	1.27				
*** Sample ID: SS53-0-1SD				Seq: 17	11:28:53 20 May 10	HG		
				0051808-MSD1				
Hg	1.25	ppb	.000	1.25				
*** Sample ID: SS53-0-1				Seq: 18	11:31:03 20 May 10	HG		
				SDI1005129-05 5X				
Hg	-.173	ppb	.000	-.173				
*** Sample ID: SS55-00-01				Seq: 19	11:33:03 20 May 10	HG		
				1005129-01				
Hg	.095	ppb	.000	.095				
*** Sample ID: SB55-00-2.				Seq: 20	11:34:53 20 May 10	HG		
				1005129-02				
Hg	.059	ppb	.000	.059				
*** Sample ID: SS54-0-1				Seq: 21	11:36:45 20 May 10	HG		
				1005129-03				
Hg	.202	ppb	.000	.202				
*** Check Standard: 2 Ck2 CCV				Seq: 22	11:38:47 20 May 10	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		108.	5.38	5.00	ppb	.000		
*** Check Standard: 1 Ck1 CCB				Seq: 23	11:40:57 20 May 10	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.000	.200	ppb	.000			
*** Sample ID: SB54-4-5				Seq: 24	11:42:53 20 May 10	HG		
				1005129-04				
Hg	.083	ppb	.000	.083				
*** Sample ID: SB53-7-8				Seq: 25	11:44:44 20 May 10	HG		
				1005129-06				
Hg	-.035	ppb	.000	-.035				
*** Sample ID: SS80-0-1				Seq: 26	11:46:44 20 May 10	HG		
				1005129-07				
Hg	.092	ppb	.000	.092				
*** Sample ID: SB80-3-4				Seq: 27	11:48:55 20 May 10	HG		
				1005129-08				
Hg	-.005	ppb	.000	-.005				
*** Sample ID: SS56-0-1				Seq: 28	11:50:45 20 May 10	HG		
				1005129-09				
Hg	.206	ppb	.000	.206				

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: SB56-3-4 Seq: 29 11:52:35 20 May 10 HG
1005129-10

Hg	.127	ppb	.000	.127				

*** Sample ID: SS58-0-1 Seq: 30 11:54:33 20 May 10 HG
1005129-11

Hg	.016	ppb	.000	.016				

*** Sample ID: SS52-0-1 Seq: 31 11:56:33 20 May 10 HG
1005129-12

Hg	.028	ppb	.000	.028				

*** Sample ID: SS57-0-1 Seq: 32 11:58:47 20 May 10 HG
1005129-13

Hg	.053	ppb	.000	.053				

*** Sample ID: SS60-00-01 Seq: 33 12:00:43 20 May 10 HG
1005129-14

Hg	.050	ppb	.000	.050				

*** Check Standard: 2 Ck2 CCV Seq: 34 12:02:38 20 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	5.07	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 35 12:04:34 20 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.085	.200	ppb	.000

*** Sample ID: SS59-00-01 Seq: 36 12:06:26 20 May 10 HG
1005129-15

Hg	.040	ppb	.000	.040				

*** Sample ID: SB59-9-10 Seq: 37 12:08:20 20 May 10 HG
1005129-16

Hg	-.044	ppb	.000	-.044				

*** Sample ID: SS85-0-1 Seq: 38 12:10:25 20 May 10 HG
1005129-17

Hg	.148	ppb	.000	.148				

*** Sample ID: SS89-0-1 Seq: 39 12:12:18 20 May 10 HG
1005129-18

Hg	.086	ppb	.000	.086				

*** Sample ID: SB89-6.5-7 Seq: 40 12:14:13 20 May 10 HG
1005129-19

Hg	.034	ppb	.000	.034				

*** Sample ID: SS78-0-1 Seq: 41 12:16:26 20 May 10 HG
1005129-20

Hg	.133	ppb	.000	.133				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: PBS				Seq: 42	12:18:29 20 May 10	HG		
				0051437-BLK1				
Hg	-.040	ppb	.000	-.040				
*** Sample ID: LCSS				Seq: 43	12:20:31 20 May 10	HG		
				0051437-BS1				
Hg	7.56	ppb	.000	7.56				
*** Sample ID: SDZ-SD30				Seq: 44	12:22:29 20 May 10	HG		
				1005066-08				
Hg	-.064	ppb	.000	-.064				
*** Sample ID: SDZ-SD30D				Seq: 45	12:24:35 20 May 10	HG		
				0051437-DUP1				
Hg	.004	ppb	.000	.004				
*** Check Standard: 2 Ck2 CCV				Seq: 46	12:26:28 20 May 10	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		107.	5.37	5.00	ppb	.000		
*** Check Standard: 1 Ck1 CCB				Seq: 47	12:28:20 20 May 10	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.059	.200	ppb	.000			
*** Sample ID: SDZ-SD30S				Seq: 48	12:30:10 20 May 10	HG		
				0051437-MS1				
Hg	1.15	ppb	.000	1.15				
*** Sample ID: SDZ-SD30SD				Seq: 49	12:32:05 20 May 10	HG		
				0051437-MSD1				
Hg	1.11	ppb	.000	1.11				
*** Sample ID: SDZ-SD30				Seq: 50	12:33:57 20 May 10	HG		
				SDI1005066-08 5X				
Hg	-.214	ppb	.000	-.214				
*** Sample ID: SDZ-SD24				Seq: 51	12:35:47 20 May 10	HG		
				1005066-01				
Hg	-.016	ppb	.000	-.016				
*** Sample ID: SDZ-SD25				Seq: 52	12:38:00 20 May 10	HG		
				1005066-02				
Hg	-.032	ppb	.000	-.032				
*** Sample ID: SDZ-SD26				Seq: 53	12:39:51 20 May 10	HG		
				1005066-03				
Hg	-.021	ppb	.000	-.021				
*** Sample ID: SDZ-SD27				Seq: 54	12:41:56 20 May 10	HG		
				1005066-04				
Hg	-.001	ppb	.000	-.001				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: SDZ-SD29 Seq: 55 12:43:48 20 May 10 HG
1005066-05

Hg	.010	ppb	.000	.010				

*** Sample ID: SDZ-SD29D Seq: 56 12:45:42 20 May 10 HG
1005066-06

Hg	.012	ppb	.000	.012				

*** Sample ID: SDZ-SD17 Seq: 57 12:47:38 20 May 10 HG
1005066-07

Hg	.025	ppb	.000	.025				

*** Check Standard: 2 Ck2 CCV Seq: 58 12:49:34 20 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.	5.32	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 59 12:51:36 20 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.048	.200	ppb	.000

*** Sample ID: SDZ-SD23 Seq: 60 12:53:27 20 May 10 HG
1005066-09

Hg	-.045	ppb	.000	-.045				

*** Sample ID: SDZ-SD23D Seq: 61 12:55:20 20 May 10 HG
1005066-10

Hg	-.029	ppb	.000	-.029				

*** Sample ID: SDZ-SD22 Seq: 62 12:57:26 20 May 10 HG
1005066-11

Hg	-.011	ppb	.000	-.011				

*** Sample ID: SDZ-SD05 Seq: 63 12:59:19 20 May 10 HG
1005066-12

Hg	.011	ppb	.000	.011				

*** Sample ID: SDZ-SD28 Seq: 64 13:01:16 20 May 10 HG
1005066-13

Hg	.009	ppb	.000	.009				

*** Sample ID: SDZ-SD08 Seq: 65 13:03:08 20 May 10 HG
1005066-14

Hg	.038	ppb	.000	.038				

*** Sample ID: SDZ-SD07 Seq: 66 13:04:59 20 May 10 HG
1005066-15

Hg	-.012	ppb	.000	-.012				

*** Sample ID: SDZ-SD06 Seq: 67 13:07:15 20 May 10 HG
1005066-16

Hg	-.017	ppb	.000	-.017				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: SDZ-SD09				Seq: 68	13:09:27 20 May 10	HG		
				1005066-17				
Hg	.001	ppb	.000	.001				
*** Sample ID: SDZ-SD09D				Seq: 69	13:11:19 20 May 10	HG		
				1005066-18				
Hg	.015	ppb	.000	.015				
*** Check Standard: 2 Ck2 CCV				Seq: 70	13:13:12 20 May 10	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		107.	5.34	5.00	ppb	.000		
*** Check Standard: 1 Ck1 CCB				Seq: 71	13:15:04 20 May 10	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.058	.200	ppb	.000			
*** Sample ID: SDZ-SD03				Seq: 72	13:17:04 20 May 10	HG		
				1005066-19				
Hg	.028	ppb	.000	.028				
*** Sample ID: SDZ-SD02				Seq: 73	13:18:55 20 May 10	HG		
				1005066-20				
Hg	.016	ppb	.000	.016				
*** Sample ID: PBS				Seq: 74	13:20:49 20 May 10	HG		
				0051815-BLK1				
Hg	-.002	ppb	.000	-.002				
*** Sample ID: LCSS				Seq: 75	13:22:41 20 May 10	HG		
				0051815-BS1				
Hg	7.74	ppb	.000	7.74				
*** Sample ID: SDZ-SD15				Seq: 76	13:24:34 20 May 10	HG		
				1005068-11				
Hg	-.101	ppb	.000	-.101				
*** Sample ID: SDZ-SD15D				Seq: 77	13:26:25 20 May 10	HG		
				0051815-DUP1				
Hg	-.011	ppb	.000	-.011				
*** Sample ID: SDZ-SD15S				Seq: 78	13:28:21 20 May 10	HG		
				0051815-MS1				
Hg	1.10	ppb	.000	1.10				
*** Sample ID: SDZ-SD15SD				Seq: 79	13:30:16 20 May 10	HG		
				0051815-MSD1				
Hg	1.06	ppb	.000	1.06				
*** Sample ID: SDZ-SD15				Seq: 80	13:32:11 20 May 10	HG		
				SDI1005068-11 5X				
Hg	-.148	ppb	.000	-.148				

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: SDZ-SD04				Seq: 81	13:34:03 20 May 10	HG		
				1005068-01				
Hg	.035	ppb	.000	.035				
*** Check Standard: 2 Ck2 CCV				Seq: 82	13:35:54 20 May 10	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		103.	5.14	5.00	ppb	.000		
*** Check Standard: 1 Ck1 CCB				Seq: 83	13:37:45 20 May 10	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.061	.200	ppb	.000			
*** Sample ID: SDZ-SD10				Seq: 84	13:39:38 20 May 10	HG		
				1005068-02				
Hg	.017	ppb	.000	.017				
*** Sample ID: SDZ-SD01				Seq: 85	13:41:32 20 May 10	HG		
				1005068-03				
Hg	.160	ppb	.000	.160				
*** Sample ID: SDZ-SD18				Seq: 86	13:43:23 20 May 10	HG		
				1005068-04				
Hg	-.038	ppb	.000	-.038				
*** Sample ID: SDZ-SD20				Seq: 87	13:45:15 20 May 10	HG		
				1005068-05				
Hg	-.030	ppb	.000	-.030				
*** Sample ID: SDZ-SD16				Seq: 88	13:47:11 20 May 10	HG		
				1005068-06				
Hg	-.041	ppb	.000	-.041				
*** Sample ID: SDZ-SD19				Seq: 89	13:49:06 20 May 10	HG		
				1005068-07				
Hg	.000	ppb	.000	.000				
*** Sample ID: SDZ-SD21				Seq: 90	13:51:02 20 May 10	HG		
				1005068-08				
Hg	-.018	ppb	.000	-.018				
*** Check Standard: 2 Ck2 CCV				Seq: 91	13:53:05 20 May 10	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		103.	5.16	5.00	ppb	.000		
*** Check Standard: 1 Ck1 CCB				Seq: 92	13:54:58 20 May 10	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.054	.200	ppb	.000			
*** Sample ID: SDZ-SD13				Seq: 93	13:56:50 20 May 10	HG		
				1005068-09				
Hg	.006	ppb	.000	.006				
*** Sample ID: SDZ-SD14				Seq: 94	13:58:43 20 May 10	HG		
				1005068-10				
Hg	.024	ppb	.000	.024				

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Sample ID: SDZ-SD11              Seq:  95     14:00:37 20 May 10   HG
                          1005068-12
Hg    .007    ppb       .000      .007
                                                                             =
===============================================================================
*** Sample ID: SDZ-SD12              Seq:  96     14:02:29 20 May 10   HG
                          1005068-13
Hg    .015    ppb       .000      .015
                                                                             =
===============================================================================
*** Sample ID: SDZ-SD30              Seq:  97     14:04:25 20 May 10   HG
                        SDI1005066-08  5X
Hg   -.009    ppb       .000     -.009
                                                                             =
*** Check Standard: 2  Ck2 CCV       Seq:  98     14:06:17 20 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.10    5.00  ppb         .000
                                                                             =
*** Check Standard: 1  Ck1 CCB       Seq:  99     14:08:28 20 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.032     .200     ppb         .000
                                                                             =
```

5. Digestion and Distillation Logs

Logs shall be submitted in the following order: digestion logs for ICP, flame AA (if used), furnace AA (if used), and mercury preparations, followed by a copy of the distillation log for cyanide.

METALS/MERCURY PREPARATION LOG

Metals Method: 3050B / 6010B
Mercury Method: 7471B
Prepared By: NSB | SAR | MM

CompuChem — A Division Of Liberty Analytical Corp.

Preparation Date: 05-19-10
Preparation Time: 0900
Batch Number: 0051807/08
Blue Soil

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	SAMPLE TYPE	ICP Initial (g)	ICP Final (mL)	HG Initial (g)	HG Final (mL)	*Description Before	*Description After ICP
0051807/08-BLK1	PBS	MB	1.00	100	0.60	100	N / A	C / CL
0051807/08-BS1	LCSS	LCS	1.00		0.20		BR / F	Y / CL
0051807/08-DUP1	SS53-0-1D	DUP	1.00		0.60		BR / M	Y / CL
0051807/08-MS1	SS53-0-1S	MS	1.00		0.60		BR / M	Y / CL
0051807/08-MSD1	SS53-0-1SD	MSD	1.00		0.60		BR / M	Y / CL
1005129-01	SS55-00-01	SAMPLE	1.00		0.60		BR / M	Y / CL
1005129-02	SB55-00-2.5-3	SAMPLE	1.00		0.64		BR / M	Y / CL
1005129-03	SS54-0-1	SAMPLE	1.01		0.63		BR / M	Y / CL
1005129-04	SB54-4-5	SAMPLE	1.03		0.65		BR / M	Y / CL
1005129-05	SS53-0-1	SAMPLE	1.00		0.60		BR / M	Y / CL
1005129-06	SB53-7-8	SAMPLE	1.01		0.66		BR / M	Y / CL
1005129-07	SS80-0-1	SAMPLE	1.03		0.67		BR / M	Y / CL
1005129-08	SB80-3-4	SAMPLE	1.00		0.60		BR / M	Y / CL
1005129-09	SS56-0-1	SAMPLE	1.00		0.61		BR / M	Y / CL
1005129-10	SB56-3-4	SAMPLE	1.03		0.68		BR / M	Y / CL
1005129-11	SS58-0-1	SAMPLE	1.03		0.63		BR / M	Y / CL
1005129-12	SS52-0-1	SAMPLE	1.00		0.68		BR / M	Y / CL
1005129-13	SS57-0-1	SAMPLE	1.02		0.65		BR / M	Y / CL
1005129-14	SS60-00-01	SAMPLE	1.04		0.62		BR / M	Y / CL
1005129-15	SS59-00-01	SAMPLE	1.03		0.62		BR / M	Y / CL
1005129-16	SB59-9-10	SAMPLE	1.02		0.61		BR / M	Y / CL
1005129-17	SS85-0-1	SAMPLE	1.02		0.65		BR / M	Y / CL
1005129-18	SS89-0-1	SAMPLE	1.00		0.62		BR / M	Y / CL
1005129-19	SB89-6.5-7.5	SAMPLE	1.01		0.61		BR / M	Y / CL
1005129-20	SS78-0-1	SAMPLE	1.02	↓	0.61	↓	BR / M	Y / CL

Mercury Standards and QC S0 S0.2 S0.5S1 S5 S10 ICV ICB CRI CCV CCB

NOTE: All standards and QC for mercury were prepared at the same day as the associated samples. Refer to the attached.

Standard/QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

Record of Tempature/Time		
Hot Block Temp In:	95°	C
Hot Block Temp Out:	95°	C
Time Hg in water bath:	1230	
Time Hg out water bath:	1300	
Water Bath Temp In:	95°	C
Water Bath Temp Out:	95°	C

MS Reference
ICAP: 1.0mL XCL-20
Ref #: OB 26007
HG: 1.0mL 100ppb Hg
Ref# HS10050505191010NSB

LCS Reference
ICAP: 1.0g ERA PPT (540)
Ref #: OBZ4007
HG: 0.2g ERA PPT (540)
Ref# OBZ4007

* R=red, BL=blue, Y=yellow, G=green, O=orange, V=violet, W=white, CS=colorless, BR=brown, BK=black
GY= grey, F=fine, M=medium, C=coarse, CL=clear, CY=cloudy, OP=opaque

"The presence of the Chemist's/analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations requires documentation by the chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation."

Sample Verification Signature: [signature]
This signature corroborates that the sample idenification numbers appearing on the digestion cups are the same as those appearing on the field sample containers.

Reviewed By: [signature]
Date: 5-20-10

Shading has been applied to unused portions of this worksheet as a substitute for 'Z-out.

JCF 120209

Standards/QC Preparation Log for ICP Metals/Mercury Page 1 of 3 **Case/SDG:** 100529
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION DATE
SULFURIC ACID (H_2SO_4)	9L30014	CALEDON	71645	12/12
NITRIC ACID (HNO_3)	0D25011	JT BAKER	J10027	04/13
POTASSIUM PERMANGANATE ($KMnO_4$)	0D13009	JT BAKER	J04613	04/13
HYDROCHLORIC ACID (HCL)	0D25012	CALEDON	72420	04/13
POTASSIUM PERSULFATE ($K_2S_2O_8$)	0A07004	JT BAKER	H44465	11/12
HYDROGEN PEROXIDE (H_2O_2)	0B18004	CALEDON	70692	01/11
STANDARDS				
XCL 20R	0B26007	HIGH PURITY	0925409	09/11/10
XCL LCS 10XR	9L15003	HIGH PURITY	0935232	12/10/10
ERA PPT (540)	0B24007	ERA	540	12/03/10
EPA LCS (0405)	1m2-186-23	EPA	0405	11/17/11
ICV-1 (0307)	0B04003	EPA	0307	03/12/11
ILM05.3 MATRIX SPIKE	0B23010	HIGH PURITY	1004722	02/18/11
SILVER (Ag) 100ppm	9L15009	HIGH PURITY	0934323	12/15/10
TCLP 500	9L21002	HIGH PURITY	0934202	12/10/10
ARSENIC (As) 1000ppm	9F17001	HIGH PURITY	0911221	12/05/10
MERCURY (Hg) 20ppm	9L15007	HIGH PURITY	0916320	06/15/10
ICV-5 (0508) Hg	9L15008	EPA	0508	04/19/11

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: John Rank DATE: 05-19-10

ENTERED BY: John Rank DATE: 05-19-10

REVIEWED BY: M Burns DATE: 5/19/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 2 of 3 **Case/SDG:** 1005129
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
Hg 100ppb-05-19-10-NSB	Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water **(PREPARE DAILY)**
$K_2S_2O_8$- 05-13-10-DD Potassium Persulfate	Place in a 1000mL Erlenmeyer to a re-pipettor bottle **(PREPARE AS NEEDED)**
$KmnO_4$- 05-13-10 –DD Potassium Permanganate	Place in a 2000mL volumetric flask: 100.0g of $KmnO_4$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREARE AS NEEDED)**
HNO_3- 05-18-10 - DD Nitric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
HCl- 05-18-10 - DD Hydrochloric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HCl Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
Aqua Regia- 05-19-10 - DD	Place in a 1000mL container: 600mL of Concentrated HCL 200mL of Concentrated HNO3 **(PREPARE AS NEEDED)**

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: John Reed DATE: 05-19-10

ENTERED BY: John Reed DATE: 05-19-10

REVIEWED BY: [signature] DATE: 5/19/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 3 of 3 **Case/SDG:** 100S129
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS	Resultant Analyte Concentration
ICV-5- 05-19-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of ICV-5 and 99mL of reagent water. Digest according to sample preparation instructions	4.0µg/L
S0/ICB/CCB- 05-19-10-DD	Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions	0.0µg/L
S0.2/CRA/CRI- 05-19-10-DD	Pipet into a 300mL BOD Bottle 0.2mL of Hg 100ppb and 99.8mL of reagent water Digest according to sample preparation instructions	0.2µg/L
S0.5- 05-19-10-DD	Pipet into a 300mL BOD Bottle 0.5mL of Hg 100ppb and 99.5mL of reagent water Digest according to sample preparation instructions	0.5µg/L
S1.0- 05-19-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of Hg 100ppb and 99mL of reagent water Digest according to sample preparation instructions	1.0µg/L
S5.0/CCV- 05-19-10-DD	Pipet into a 300mL BOD Bottle 5.0mL of Hg 100ppb and 95mL of reagent water Digest according to sample preparation instructions	5.0µg/L
S10.0- 05-19-10-DD	Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions	10.0µg/L

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: John Reed DATE: 05-19-10

ENTERED BY: John Reed DATE: 05-19-10

REVIEWED BY: [signature] DATE: 5/19/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

METALS/MERCURY PREPARATION LOG

Metals Method: 3050B / 6010B
Mercury Method: 7471B
Prepared By: JDD/NSB

CompuChem
A Division Of
Liberty Analytical Corp.

Preparation Date: 6-1-10
Preparation Time: 1:35
Batch Number: 60115
Blue Soil

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	SAMPLE TYPE	ICP Initial (g)	ICP Final (mL)	HG Initial (g)	HG Final (mL)	*Description Before	*Description After ICP
0060115-BLK1	PBS	MB	1.00	100			N / C	CS/ CL
0060115-BS1	LCSS	LCS	1.00				BR / F	Y / CL
0060115-DUP1	SS53-0-1D	DUP	1.00				BR / M	Y / CL
0060115-MS1	SS53-0-1S	MS	1.00				BR / M	Y / CL
0060115-MSD1	SS53-0-1SD	MSD	1.00				BR / M	Y / CL
1005129-01RE1	SS55-00-01	SAMPLE	1.00				BR / M	Y / CL
1005129-02RE1	SB55-00-2.5-3	SAMPLE	1.00				BR / M	Y / CL
1005129-03RE1	SS54-0-1	SAMPLE	1.01				BR / M	Y / CL
1005129-04RE1	SB54-4-5	SAMPLE	1.01				BR / M	Y / CL
1005129-05RE1	SS53-0-1	SAMPLE	1.00				BR / M	Y / CL
1005129-06RE1	SB53-7-8	SAMPLE	1.04				BR / M	Y / CL
1005129-07RE1	SS80-0-1	SAMPLE	1.03				BR / M	Y / CL
1005129-08RE1	SB80-3-4	SAMPLE	1.02				BR / M	Y / CL
1005129-09RE1	SS56-0-1	SAMPLE	1.00				BR / M	Y / CL
1005129-10RE1	SB56-3-4	SAMPLE	1.01				BR / M	Y / CL
1005129-11RE1	SS58-0-1	SAMPLE	1.00			060110 SAM	BR GY / F M	Y / CL
1005129-12RE1	SS52-0-1	SAMPLE	1.04				BR / M	Y / CL
1005129-13RE1	SS57-0-1	SAMPLE	1.01				BR / M	Y / CL
1005129-14RE1	SS60-00-01	SAMPLE	1.01				BR / M	Y / CL
1005129-15RE1	SS59-00-01	SAMPLE	1.03				BR / M	Y / CL
1005129-16RE1	SB59-9-10	SAMPLE	1.00				BR / M	Y / CL
1005129-17RE1	SS85-0-1	SAMPLE	1.00				BR / M	Y / CL
1005129-18RE1	SS89-0-1	SAMPLE	1.00				BR / M	Y / CL
1005129-19RE1	SB89-6.5-7.5	SAMPLE	1.03				BR / M	Y / CL
1005129-20RE1	SS78-0-1	SAMPLE	1.02	↓			BR / M	Y / CL

Mercury Standards and QC S0 S0.2 S0.5S1 S5 S10 ICV ICB CRI CCV CCB

NOTE: All standards and QC for mercury were prepared at the same day as the associated samples. Refer to the attached.

Standard/QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

Record of Tempature/Time		
Hot Block Temp In:	95°	C
Hot Block Temp Out:	95°	C
Time Hg in water bath:		
Time Hg out water bath:		
Water Bath Temp In:		C
Water Bath Temp Out:		C

MS Reference
ICAP: 1.0mL XCL-20
Ref #: 082L007
HG: 1.0mL 100ppb Hg
Ref#:

LCS Reference
ICAP: 1.0g ERA PPT (540)
Ref #: 0824007
HG: 0.2g ERA PPT (540)
Ref#:

* R=red, BL=blue, Y=yellow, G=green, O=orange, V=violet, W=white, CS=colorless, BR=brown, BK=black
GY= grey, F=fine, M=medium, C=coarse, CL=clear, CY=cloudy, OP=opaque

"The presence of the Chemist's/analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations requires documentation by the chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation."

Sample Verification Signature: [signature]
This signature corroborates that the sample identification numbers appearing on the digestion cups are the same as those appearing on the field sample containers.

Reviewed By: 2
Date: 060710

Shading has been applied to unused portions of this worksheet as a substitute for 'Z-out.

Standards/QC Preparation Log for ICP Metals/Mercury Page 1 of 3 **Case/SDG:** 1005129

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION DATE
SULFURIC ACID (H_2SO_4)	9L30014	CALEDON	71645	12/15
NITRIC ACID (HNO_3)	0E19001	JT BAKER	J10027	05/15
POTASSIUM PERMANGANATE ($KMnO_4$)	0D13009	JT BAKER	J04613	04/13
HYDROCHLORIC ACID (HCL)	0E20028	CALEDON	72420	05/15
POTASSIUM PERSULFATE ($K_2S_2O_8$)	0A07004	JT BAKER	H44465	11/12
HYDROGEN PEROXIDE (H_2O_2)	0B18004	CALEDON	70692	01/11
STANDARDS				
XCL 20R	0B26007	HIGH PURITY	0925409	09/11/10
XCL LCS 10XR	9L15003	HIGH PURITY	0935232	12/10/10
ERA PPT (540)	0B24007	ERA	540	12/03/10
EPA LCS (0405)	1m2-186-23	EPA	0405	11/17/11
ICV-1 (0307)	0B04003	EPA	0307	03/12/11
ILM05.3 MATRIX SPIKE	0B23010	HIGH PURITY	1004722	02/18/11
SILVER (Ag) 100ppm	9L15009	HIGH PURITY	0934323	12/15/10
TCLP 500	9L21002	HIGH PURITY	0934202	12/10/10
ARSENIC (As) 1000ppm	9F17001	HIGH PURITY	0911221	12/05/10
MERCURY (Hg) 20ppm	9L15007	HIGH PURITY	0916320	06/15/10
ICV-5 (0508) Hg	0E20020	EPA	0508	05/17/2015

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log

[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 6-1-10

ENTERED BY: D. Dickens DATE: 6-1-10

REVIEWED BY: [signature] DATE: 06/01/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 2 of 3 **Case/SDG:** 1005129

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
Hg 100ppb-06-01-10-DD	Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water **(PREPARE DAILY)**
$K_2S_2O_8$- 05-25-10-DD Potassium Persulfate	Place in a 1000mL Erlenmeyer to a re-pipettor bottle **(PREPARE AS NEEDED)**
$KmnO_4$- 05-25-10 –DD Potassium Permanganate	Place in a 2000mL volumetric flask: 100.0g of $KmnO_4$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREARE AS NEEDED)**
HNO_3- 05-25-10 - DD Nitric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
HCl- 05-26-10 - DD Hydrochloric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HCl Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
Aqua Regia- 05-27-10 - DD	Place in a 1000mL container: 600mL of Concentrated HCL 200mL of Concentrated HNO3 **(PREPARE AS NEEDED)**

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log

[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dicken DATE: 6-1-10

ENTERED BY: D. Dicken DATE: 6-1-10

REVIEWED BY: [signature] DATE: 06/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 3 of 3 **Case/SDG:** 1005129
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS	Resultant Analyte Concentration
ICV-5- 06-01-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of ICV-5 and 99mL of reagent water. Digest according to sample preparation instructions	4.0µg/L
S0/ICB/CCB- 06-01-10-DD	Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions	0.0µg/L
S0.2/CRA/CRI- 06-01-10-DD	Pipet into a 300mL BOD Bottle 0.2mL of Hg 100ppb and 99.8mL of reagent water Digest according to sample preparation instructions	0.2µg/L
S0.5- 06-01-10-DD	Pipet into a 300mL BOD Bottle 0.5mL of Hg 100ppb and 99.5mL of reagent water Digest according to sample preparation instructions	0.5µg/L
S1.0- 06-01-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of Hg 100ppb and 99mL of reagent water Digest according to sample preparation instructions	1.0µg/L
S5.0/CCV- 06-01-10-DD	Pipet into a 300mL BOD Bottle 5.0mL of Hg 100ppb and 95mL of reagent water Digest according to sample preparation instructions	5.0µg/L
S10.0- 06-01-10-DD	Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions	10.0µg/L

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 6-1-10

ENTERED BY: D. Dickens DATE: 6-1-10

REVIEWED BY: [signature] DATE: 060110

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

C. Chain-of-Custody Documentation

The laboratory shall include a copy of the Chain-of-Custody (CoC) Documentation for all of the samples in the SDG. The CoC documentation shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24804

166

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. ROGERS/RSH	Are high concentrations expected? Y or (N) If yes, which ID(s)? NO

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem Sample ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL PEST. 3550/8081A	Chromium VI 3rd St ~~Soluble~~/7196A	Metals 6010B/7471A	GRAINSIZE ASTM D422	Total Chromium 6010B	Grain size	
1005130-01	BBG-SS23-00-01-10B	5-10-10	1620	SO	3							X	X	X		X	X	1005166-01	
-02	BBG-SB23-1.5-2-10B	5-10-10	1630	SO	3							X	X	X		X	X	-02	
1005129-01	BBG-SS55-00-01-10B	5-11-10	0740	SO	3							X	X	X	X	X		-03	
-02	BBG-SB55-2.5-3-10B	5-11-10	0750	SO	3							X	X	X	X	X		-04	
-03	BBG-SS54-0-1-10B	5-11-10	0840	SO	3							X	X	X	X	X		1005210-18	
-04	BBG-SB54-4-5-10B	5-11-10	0850	SO	3							X	X	X	X	X		1005166-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments:

Sample Custody

Relinquished by:	Date/Time:	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grainsize to CT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

24805

Page 1 of 1

167

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 CLEVELAND ST STE	Sampling Location: MCB CAMLEJ
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: ROBECCA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N) NA
Sampler's Name: K. ROGERS / RDH	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Analysis Requested (Include Method and Bottle Type)

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Comp Chem Job No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	(1) SIM PAH 3550B/8270C	(2) TCL PESTICIDES 3550/8081A	(3) Chromium VI 3060A/7196A	(4) METALS 6010B/7471A	(5) GRAINSIZE ASTM D422	(6) TOTAL CHROMIUM 6010B		Grainsize	
1005129-05	BBG-SS53-0-1-10B	5.11.10	0930	SO	3							X	X	X	X	X			1005166-06	
-05	BBG-SS53-0-1-10B-MS	5.11.10	0930	SO	3							X	X	X	X					
-05	BBG-SS53-0-1-10B-SD	5.11.10	0930	SO	3							X	X	X	X					
-06	BBG-SB53-7-8-10B	5.11.10	0955	SO	3							X	X	X	X	X			1005166-07	
1005130-03	BBG-SS24-0-1-10B	5.11.10	1045	SO	3							X	X	X		X	X		1005166-08	
-04	BBG-SB24-3-4-10B	5.11.10	1055	SO	3							X	X	X		X	X		1005166-09	

Lab Use Only

Sample Unpacked By: K. Manning	Cyanide samples checked for sulfide & chlorine? Y or (NA)
Sample Order Entry By:	625 & Phenol samples checked for chlorine? Y or (NA)
Samples Received in Good Condition? (Y) or N	608 samples checked for pH between 5.0-9.0? Y or (NA)
If no, explain:	

Sample Custody

Relinquished by:	Date/Time: 5-12-10/ 1300	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grainsize to CT LABS | Custody Seal(s) intact? (Y) or N | On Ice? (Y) or N | Cooler Temp: 1.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24807

168

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Preservatives / Analytical Methods Requested

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 8270C 3550B	TCL PEST. 3550 8081A	Chromium VI, # 6010B/7196A 2oz	MGNUS 6010B 7471A 8oz	GRAINSIZE ASTM D422	TOTAL CHROMIUM (6010B)		Grain size	
1005130-05	BBG-SS49-0-1-10B	5-11-10	1405	SO	3							X	X	X		X	X		1005166-10	
-06	BBG-SB49-11-12-10B	5.12.10	1422	SO	3							X	X	X		X	X			-11
1005129-07	BBG-SS80-0-1-10B	5-12-10	0755	SO	3							X	X	X	X	X				-12
-08	BBG-SB80-3-4-10B	5-12-10	0800	SO	3							X	X	X	X	X				-13
1005130-07	BBG-SS50-0-1-10B	5-11-10	1445	SO	3							X	X	X		X	X		✓	-14
-07	BBG-SS50-0-1-10B-MS	5-11-10	1445	SO	3							X	X	X		X	X			
-07	~~BBG-SS50~~ 0-1-10B-SD	5-11-10	1445	SO	3							X	X	X		X	X			

Lab Use Only

Sample Unpacked By: Diane Boyd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments: SB49-11-12-10B Sample time reads 1420 DB 4/13/10

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: Diane Boyd	Date/Time: 5-13-10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24806

169

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. ROGERS/ROW	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Comments/Hazards (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL PEST. 3550/8081A	CHROMIUM VI, 3060/7196A	METALS 6010B/7471A	GRAIN SIZE ASTM D422	TOTAL CHROMIUM 6010B			Gram size					
1005129-09	BBG-SS56-0-1-10B	5/11/10	1125	SO	3							X	X	X	X	X				1005166-15					
-10	BBG-SS56-3-4-10B	5-11-10	1130	SO	3			BBG-SB56-3-4-10B				X	X	X	X	X							-16		
-11	BBG-SS58-0-1-10B	5-12-10	1015	SO	3							X	X	X	X	X							-17		
1005138-08	BBG-SB47-14-15-10B	5-12-10	0940	SO	3							X	X	X		X	X						-18		
-09	BBG-SS47-0-1-10B	5-12-10	0910	SO	3							X	X	X		X	X						-19		
-10	BBG-SS11-0-1-10B	5-11-10	1605	SO	3							X	X	X		X	X						-20		
-11	BBG-SB11-11-12-10B	5-11-10	1620	SO	3							X	X	X		X	X			1005209-01					

Lab Use Only

Sample Unpacked By: K. Manning	Cyanide samples checked for sulfide & chlorine? Y or NA
Sample Order Entry By:	625 & Phenol samples checked for chlorine? Y or NA
Samples Received in Good Condition? Y or N	608 samples checked for pH between 5.0-9.0? Y or NA
If no, explain:	

Sample Custody

Relinquished by:	Date/Time: 5/12/10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where? Gran size to CT LABS	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 4.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24770

170

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

Page 1 of 1

2 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, Ste 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrix
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lancaster Laboratories Sample Number	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (1-spare)	TCL Pest. (8081A) (2-AG)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B) (1-125ml)	Chromium VI (7196A)	Grain Size (1-8oz.)		Grain size			Lancaster Laboratories Use Only
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X						<2
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X		1005209-02			
-13	BBG-SS48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X				-03	
1005129-12	BBG-SS52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X				-04	
-13	BBG-SS57-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X				-05	

Lancaster Laboratories Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to GT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

CompuChem
a division of Liberty Analytical Corp.

5/14/10 AB Residual Chlorine Present? Yes ___ No ___

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of ___

Courier
Airbill No.
Sampling Complete? Y or N

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Client/Reporting Information	Project Information
Company Name: CH2M Hill	Project Name: CTO-94
Address: 5700 Cleveland St., Ste 101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time:
Project Contact: Rebekha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Kristin Rogers / RDU	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Chrom VI (7196A)	Total Chrom (6010B)	Total Metals (6010B)	Grain Size (ASTM D422)	SIM PAH's (8270C)	TCL Pest. (8081A)		Grain size					
1005130-14	BBG-SS18-0-1-10B	5-12-10	1505	SO	3							X	X		X	X	X			1005209-06					
-15	BBG-SB18-12-13-10B	5-12-10	1520	SO	3							X	X		X	X	X			-07					
1005129-14	BBG-SS60-0-1-10B	5-12-10	1555	SO	3							X		X	X	X	X			-08					
-15	BBG-SS59-0-1-10B	5-12-10	1640	SO	3							X		X	X	X	X			-09					
-16	BBG-SB59-9-10-10B	5-12-10	1655	SO	3							X		X	X	X	X			-10					
1005130-16	BBG-SS25-0-1-10B	5-13-10	1105	SO	3							X	X		X	X	X			-11					
-17	BBG-SB25-3-4-10B	5-13-10	1110	SO	3							X	X		X	X	X			-12					

Sample Unpacked By: Diane Byrd
Sample Order Entry By: Kelly Long
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by: Shaw	Date/Time: 5-13-10 / 1330	Received by: Diane Byrd	Date/Time: 5/14/10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 1.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24772

172

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

8oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Use Only Sample ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B)	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C)	TCL Pest (8081A)	Grain Size (ASTM D422) 8oz		Grain size		
1005129-17	BBG-SB85-0-1-10B	5-13-10	0740	SO	3							X		X	X	X	X		1005209-13		
1005132-01	BBG-SB85-1.5-2.5-10B	5-13-10	0745	SO	3							X		X	X	X	X		√	-14	
	BBG-SB85-1.5-2.5-10B-MS*	5-13-10	0745	SO	2							X		X	X	X	X(2)	(NO)	no grain size on MS/MSD		
	BBG-SB85-1.5-2.5-10B-SD*	5-13-10	0745	SO	2							X		X	X	X	X(2)	(NO)			
1005129-18	BBG-SB89-0-1-10B	5-13-10	0825	SO	3							X		X	X	X	X		1005209-15		
-19	BBG-SB89-6.5-7.5-10B	5-13-10	0845	SO	3							X		X	X	X	X			-16	
-20	BBG-SB78-0-1-10B	5-13-10	0930	SO	3							X		X	X	X	X			-17	
1005132-02	BBG-SB78-3.5-4.5-10B	5-13-10	1040	SO	3							X		X	X	X	X			-18	

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

BBG-SB85-1.5-2.5-10B (MS + SD) Did not receive grainsize jar. DB 5/14/10

Relinquished by:	Date/Time: 5-13-10 1330	Received by: Diane Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	05/27/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	06/03/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	05/27/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	06/03/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	05/27/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	06/03/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	05/27/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	06/03/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	05/27/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	06/03/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS56-0-1-10B

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	05/27/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	06/03/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	05/27/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	06/03/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	05/27/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	06/03/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	05/27/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	06/03/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	05/27/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	06/03/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS56-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS56-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-10	SB56-3-4	05/11/2010	05/13/2010	05/27/2010	BBG-SB56-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-10	SB56-3-4	05/11/2010	05/13/2010	06/03/2010	BBG-SB56-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-11	SS58-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS58-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-11	SS58-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS58-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-12	SS52-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS52-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-12	SS52-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS52-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-13	SS57-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS57-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-13	SS57-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS57-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-14	SS60-00-01	05/12/2010	05/14/2010	05/27/2010	BBG-SS60-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-14	SS60-00-01	05/12/2010	05/14/2010	06/03/2010	BBG-SS60-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-15	SS59-00-01	05/12/2010	05/14/2010	05/27/2010	BBG-SS59-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-15	SS59-00-01	05/12/2010	05/14/2010	06/03/2010	BBG-SS59-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-16	SB59-9-10	05/12/2010	05/14/2010	05/27/2010	BBG-SB59-9-10-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-16	SB59-9-10	05/12/2010	05/14/2010	06/03/2010	BBG-SB59-9-10-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-17	SS85-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS85-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-17	SS85-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS85-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-18	SS89-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS89-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-18	SS89-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS89-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-19	SB89-6.5-7.5	05/13/2010	05/14/2010	05/27/2010	BBG-SB89-6.5-7.5-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-19	SB89-6.5-7.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB89-6.5-7.5-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-20	SS78-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS78-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-20	SS78-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS78-0-1-10B

WORK ORDER

1005129

Printed: 5/28/2010 6:51:57PM

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Prepared**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/03/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/14/2010 09:20

Logged In By: Cathy Dover — Date Logged In: 05/14/2010 19:10

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005129-05 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A*TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005129-01 SS55-00-01 [Soil] Sampled 05/11/2010 07:40 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:40	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:40	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:40	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:40	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:40	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-02 SB55-00-2.5-3 [Soil] Sampled 05/11/2010 07:50 Eastern					
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:50	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:50	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:50	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:50	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:50	05/13/2010 09:30	SubList = GC- 8081 DOD

1005129

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005129 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005129-03 SS54-0-1 [Soil] Sampled 05/11/2010 08:40 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:40	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:40	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:40	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:40	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:40	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-04 SB54-4-5 [Soil] Sampled 05/11/2010 08:50 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:50	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:50	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:50	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:50	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:50	05/13/2010 09:30	SubList = SVsim- PAH
1005129-05 SS53-0-1 [Soil] Sampled 05/11/2010 09:50 Eastern				**USE FOR QC**	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:50	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:50	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:50	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:50	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:50	05/13/2010 09:30	
1005129-06 SB53-7-8 [Soil] Sampled 05/11/2010 09:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:55	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:55	05/13/2010 09:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:55	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:55	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:55	05/13/2010 09:30	

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005129 **CASE:**	**Status:**	Received

Analysis	Due	TAT	Expires	Comments	
1005129-07 SS80-0-1 [Soil] Sampled 05/12/2010 07:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 07:55	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 07:55	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 07:55	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 07:55	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 07:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 07:55	05/13/2010 09:30	SubList = SVsim- PAH
1005129-08 SB80-3-4 [Soil] Sampled 05/12/2010 08:00 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 08:00	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 08:00	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 08:00	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 08:00	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 08:00	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 08:00	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-09 SS56-0-1 [Soil] Sampled 05/11/2010 11:25 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:25	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:25	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:25	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:25	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:25	05/13/2010 09:30	SubList = SVsim- PAH
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:25	05/13/2010 09:30	
1005129-10 SB56-3-4 [Soil] Sampled 05/11/2010 11:30 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:30	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:30	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:30	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:30	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:30	05/13/2010 09:30	

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005129 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005129-11 SS58-0-1 [Soil] Sampled 05/12/2010 10:15 Eastern					
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 10:15	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 10:15	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 10:15	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 10:15	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 10:15	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 10:15	05/13/2010 09:30	SubList = SVsim- PAH
1005129-12 SS52-0-1 [Soil] Sampled 05/11/2010 15:15 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 15:15	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 15:15	05/13/2010 09:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 15:15	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 15:15	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 15:15	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 15:15	05/13/2010 09:30	
1005129-13 SS57-0-1 [Soil] Sampled 05/12/2010 12:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 12:05	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 12:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 12:05	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 12:05	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 12:05	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 12:05	05/13/2010 09:30	
1005129-14 SS60-00-01 [Soil] Sampled 05/12/2010 15:55 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 15:55	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:55	05/14/2010 09:20	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:55	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:55	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:55	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 15:55	05/14/2010 09:20	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005129-15 SS59-00-01 [Soil] Sampled 05/12/2010 16:40 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:40	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:40	05/14/2010 09:20	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:40	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:40	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:40	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:40	05/14/2010 09:20	SubList = SVsim- PAH
1005129-16 SB59-9-10 [Soil] Sampled 05/12/2010 16:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:55	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:55	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:55	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:55	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:55	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:55	05/14/2010 09:20	
1005129-17 SS85-0-1 [Soil] Sampled 05/13/2010 07:40 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 07:40	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 07:40	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 07:40	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 07:40	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 07:40	05/14/2010 09:20	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 07:40	05/14/2010 09:20	
1005129-18 SS89-0-1 [Soil] Sampled 05/13/2010 08:25 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:25	05/14/2010 09:20	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:25	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:25	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:25	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:25	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:25	05/14/2010 09:20	

WORK ORDER

1005129

Printed: 5/28/2010 6:51:57PM

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Batched**

Analysis	Due	TAT	Expires		Comments
1005129-19 SB89-6.5-7.5 [Soil] Sampled 05/13/2010 08:45 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:45	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:45	05/14/2010 09:20	SubList = SVsim- PAH
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:45	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:45	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:45	05/14/2010 09:20	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:45	05/14/2010 09:20	
1005129-20 SS78-0-1 [Soil] Sampled 05/13/2010 09:30 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 09:30	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 09:30	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 09:30	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 09:30	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 09:30	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 09:30	05/14/2010 09:20	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

INTERNAL DIGESTION COC

0060115

COMPUCHEM

Printed: 6/1/2010 9:11:55AM

Matrix: Soil **Prepared using: METALS - EPA 3050B**

Lab Number	Client ID	Sample Type	
0060115-BLK1	PBS	Blank	
0060115-BS1	LCSS	LCS	
0060115-DUP1	SS53-0-1D	Duplicate	
0060115-MS1	SS53-0-1S	Matrix Spike	
0060115-MSD1	SS53-0-1SD	Matrix Spike Dup	
1005129-01RE1	SS55-00-01	Sample	
1005129-02RE1	SB55-00-2.5-3	Sample	
1005129-03RE1	SS54-0-1	Sample	
1005129-04RE1	SB54-4-5	Sample	
1005129-05RE1	SS53-0-1	Sample	
1005129-06RE1	SB53-7-8	Sample	
1005129-07RE1	SS80-0-1	Sample	
1005129-08RE1	SB80-3-4	Sample	
1005129-09RE1	SS56-0-1	Sample	
1005129-10RE1	SB56-3-4	Sample	
1005129-11RE1	SS58-0-1	Sample	
1005129-12RE1	SS52-0-1	Sample	
1005129-13RE1	SS57-0-1	Sample	
1005129-14RE1	SS60-00-01	Sample	
1005129-15RE1	SS59-00-01	Sample	
1005129-16RE1	SB59-9-10	Sample	
1005129-17RE1	SS85-0-1	Sample	
1005129-18RE1	SS89-0-1	Sample	
1005129-19RE1	SB89-6.5-7.5	Sample	
1005129-20RE1	SS78-0-1	Sample	

From 0051807 on 6/1/2010 by NSB

D. Dickens	6-1-10 1635	ICP Stg.	6-1-10 1635
Relinquished By	Date	Received By	Date
	060710 1100		060710 1100
Relinquished By	Date	Received By	Date
	060700 1045		060710 1045
Relinquished By	Date	Received By	Date
		060710	
Relinquished By	Date	Received By	Date

INTERNAL DIGESTION COC

0051808

COMPUCHEM

Printed: 5/18/2010 8:41:16AM

Matrix: Soil **Prepared using: METALS - EPA 7471A Prep**

Lab Number	Client ID	Sample Type	
0051808-BLK1	PBS	Blank	
0051808-BS1	LCSS	LCS	
0051808-DUP1	SS53-0-1D	Duplicate	
0051808-MS1	SS53-0-1S	Matrix Spike	
0051808-MSD1	SS53-0-1SD	Matrix Spike Dup	
1005129-01	SS55-00-01	Sample	
1005129-02	SB55-00-2.5-3	Sample	
1005129-03	SS54-0-1	Sample	
1005129-04	SB54-4-5	Sample	
1005129-05	SS53-0-1	Sample	
1005129-06	SB53-7-8	Sample	
1005129-07	SS80-0-1	Sample	
1005129-08	SB80-3-4	Sample	
1005129-09	SS56-0-1	Sample	
1005129-10	SB56-3-4	Sample	
1005129-11	SS58-0-1	Sample	
1005129-12	SS52-0-1	Sample	
1005129-13	SS57-0-1	Sample	
1005129-14	SS60-00-01	Sample	
1005129-15	SS59-00-01	Sample	
1005129-16	SB59-9-10	Sample	
1005129-17	SS85-0-1	Sample	
1005129-18	SS89-0-1	Sample	
1005129-19	SB89-6.5-7.5	Sample	
1005129-20	SS78-0-1	Sample	

Relinquished By	05-19-10 1305 Date	Hg Stg. Received By	05-19-10 1305 Date
Relinquished By	5/20/10 1025 Date	Received By	5/20/10 1025 Date
Relinquished By	5/20/10 1450 Date	Received By	5/20/10 1450 Date
Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date

Metals Internal Chain of Custody Sheet

Batch: 0051807 **Status:** Batched **Analysis:** 6010B METALS TAL

Lab Id	Client_Id	Received	Container	Extraction	Preservative	Matrix	Due Date	Cust Date
1005129-01 B	SS55-00-01	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-02 B	SB55-00-2.5-3	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-03 B	SS54-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-04 B	SB54-4-5	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-05 F	SS53-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-06 B	SB53-7-8	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-07 B	SS80-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-08 B	SB80-3-4	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-09 B	SS56-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-10 B	SB56-3-4	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-11 B	SS58-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-12 B	SS52-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-13 B	SS57-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-14 B	SS60-00-01	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-15 B	SS59-00-01	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-16 B	SB59-9-10	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-17 B	SS85-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-18 B	SS89-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-19 B	SB89-6.5-7.5	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-20 B	SS78-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010

Cooler 1	5.18.10 1400	Diane Dyrd	5.18.10 1400
Relinquished By	Date/Time	Received By	Date/Time
Diane Dyrd	5.18.10 1400	John Peck	5-18-10 1400
Relinquished By	Date/Time	Received By	Date/Time
John Peck	5-18-10 1900	Cooler 1	5-18-10 1900
Relinquished By	Date/Time	Received By	Date/Time
		05-7-10	
Relinquished By	Date/Time	Received By	Date/Time

Metals Internal Chain of Custody Sheet

Batch: 0060115 **Status:** Batched **Analysis**: 6010B METALS TAL

Lab Id	Client_Id	Received	Container	Extraction	Preservative	Matrix	Due Date	Cust Date
1005129-01RE1 E	SS55-00-01	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-02RE1 E	SB55-00-2.5-3	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-03RE1 E	SS54-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-04RE1 E	SB54-4-5	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-05RE1 F	SS53-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-06RE1 E	SB53-7-8	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-07RE1 E	SS80-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-08RE1 E	SB80-3-4	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-09RE1 E	SS56-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-10RE1 E	SB56-3-4	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-11RE1 E	SS58-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-12RE1 E	SS52-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-13RE1 E	SS57-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005129-14RE1 E	SS60-00-01	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-15RE1 E	SS59-00-01	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-16RE1 E	SB59-9-10	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-17RE1 E	SS85-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-18RE1 E	SS89-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-19RE1 E	SB89-6.5-7.5	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005129-20RE1 E	SS78-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010

Cooler #1	6.01.10 0918	K. Maning	6.01.10 0918
Relinquished By	Date/Time	Received By	Date/Time
K. Maning	6.01.10 0948		06/10 0948
Relinquished By	Date/Time	Received By	Date/Time
	06.01.10 9.48 1806 SAM 06.01.10	Cooler	06.01.10 1801
Relinquished By	Date/Time	Received By	Date/Time
		06-7-10	
Relinquished By	Date/Time	Received By	Date/Time

CompuChem

A Division Of

Liberty Analytical Corp.

6/10/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S, WorkOrder: 1005129

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005129

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005129

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005129-01	SS55-00-01	Soil	05/11/2010 07:40	05/13/2010 09:30
1005129-02	SB55-00-2.5-3	Soil	05/11/2010 07:50	05/13/2010 09:30
1005129-03	SS54-0-1	Soil	05/11/2010 08:40	05/13/2010 09:30
1005129-04	SB54-4-5	Soil	05/11/2010 08:50	05/13/2010 09:30
1005129-05	SS53-0-1	Soil	05/11/2010 09:50	05/13/2010 09:30
1005129-06	SB53-7-8	Soil	05/11/2010 09:55	05/13/2010 09:30
1005129-07	SS80-0-1	Soil	05/12/2010 07:55	05/13/2010 09:30
1005129-08	SB80-3-4	Soil	05/12/2010 08:00	05/13/2010 09:30
1005129-09	SS56-0-1	Soil	05/11/2010 11:25	05/13/2010 09:30
1005129-10	SB56-3-4	Soil	05/11/2010 11:30	05/13/2010 09:30
1005129-11	SS58-0-1	Soil	05/12/2010 10:15	05/13/2010 09:30
1005129-12	SS52-0-1	Soil	05/11/2010 15:15	05/13/2010 09:30
1005129-13	SS57-0-1	Soil	05/12/2010 12:05	05/13/2010 09:30
1005129-14	SS60-00-01	Soil	05/12/2010 15:55	05/14/2010 09:20
1005129-15	SS59-00-01	Soil	05/12/2010 16:40	05/14/2010 09:20
1005129-16	SB59-9-10	Soil	05/12/2010 16:55	05/14/2010 09:20
1005129-17	SS85-0-1	Soil	05/13/2010 07:40	05/14/2010 09:20
1005129-18	SS89-0-1	Soil	05/13/2010 08:25	05/14/2010 09:20
1005129-19	SB89-6.5-7.5	Soil	05/13/2010 08:45	05/14/2010 09:20
1005129-20	SS78-0-1	Soil	05/13/2010 09:30	05/14/2010 09:20

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC by SW-846

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

A. SDG Narrative

B. Tabulated target compound results (Form I)

C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low, or Medium)

D. Spike results MS / MSD / LCS (Form III)

E. Blank data (Form IV)
Tabulated blank results (Form I)

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005129

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005129
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SB53-7-8, SB54-4-5, SB55-00-2.5-3, SB56-3-4, SB59-9-10, SB80-3-4, SB89-6.5-7.5, SS52-0-1, SS53-0-1, SS54-0-1, SS55-00-01, SS56-0-1, SS57-0-1, SS58-0-1, SS59-00-01, SS60-00-01, SS78-0-1, SS80-0-1, SS85-0-1 ,SS89-0-1

The twenty soil samples listed above were received intact, refrigerated between 0.2 and 4.1°C, with proper documentation, in sealed shipping containers, on May 13th and 14th, 2010. The samples were scheduled for the requested analysis of the Pesticide fraction only. SW-846, 3rd Edition, Update 4, Method 8081B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # 1005129 are included in the sample data sections.

Pesticide

Extraction and analysis holding time requirements were met for the samples. The samples in this SDG were further cleaned through GPC cleanup process.

Target analytes confirmed above the reporting limits in samples SB53-7-8, SB59-9-10, SS53-0-1, SS56-0-1, SS60-00-01, SS78-0-1, SS80-0-1, and SS89-0-1. Samples SS53-0-1, SS80-0-1, SS60-00-01, and SS89-0-1 were analyzed at a dilution due to target analytes exceeding the calibration range on the higher of the two columns.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All surrogate recoveries were with the method specified limits, with the exception of Tetrachloro-m-xylene on the clpest2 column in samples PBLKBD and SB53-7-8 and Decachlorobiphenyl on both columns in sample SS53-0-1MSD. These recovery limits were within the laboratory's in house limits.

The method blank associated with the samples met all quality control criteria.

Duplicate matrix spike samples were performed with sample SS53-0-1, and did not meet all recovery and precision criteria. The Laboratory Control Sample (LCS) prepared and analyzed with the samples met recovery criteria.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Teresa Amentt Jennings
GC/HPLC Data Reviewer
June 4, 2010

Manual Integrations									
SDG:	1005129								
Sample(s)	PBLKBD	PBDLCS	SS53-0-1MSD	SS55-00-01	SS55-00-2.5-3	SS54-0-1	SS53-0-1	SS53-7-8	SS80-0-1
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC									
delta-BHC									
Heptachlor					X				
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane	X	X						X	
alpha-Chlordane			X					X	X
Endosulfan I									
4,4'-DDE									
Dieldrin			X						X
Endrin			X						
4,4'-DDD		X							X
Endosulfan II		X	X						
4,4'-DDT									X
Endrin Aldehyde									
Endosulfan sulfate			X			X			
Methoxychlor									
Endrin Ketone				X			X		
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

Manual Integrations									
SDG:	1005129								
Sample(s)	SB80-3-4	SB56-3-4	SS52-0-1	SS57-0-1	SS59-9-10	SS89-0-1	SS78-0-1	SS60-00-01	SS53-0-1DL
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC									
delta-BHC									
Heptachlor	X	X	X						
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane	X						X		
alpha-Chlordane	X				X		X		X
Endosulfan I					X				
4,4'-DDE									
Dieldrin					X				
Endrin									
4,4'-DDD									
Endosulfan II									
4,4'-DDT	X					X			
Endrin Aldehyde									
Endosulfan sulfate				X				X	
Methoxychlor						X			
Endrin Ketone				X					
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

Manual Integrations									
SDG:	1005129								
Sample(s)	SS80-0-1DL	SS89-0-1DL							
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC									
delta-BHC									
Heptachlor									
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane	X								
alpha-Chlordane	X								
Endosulfan I									
4,4'-DDE									
Dieldrin									
Endrin	X								
4,4'-DDD									
Endosulfan II									
4,4'-DDT		X							
Endrin Aldehyde									
Endosulfan sulfate									
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005129

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
✓	Restek	clpest	0.32	0.5	30
✓	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Form I

Organic Analysis Data Sheet (OADS)
- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBDLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 0051719-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	4.8	
319-85-7	beta-BHC	4.7	
319-84-6	alpha-BHC	5.5	
319-86-8	delta-BHC	5.8	
58-89-9	gamma-BHC (Lindane)	5.3	
72-54-8	4,4'-DDD	15	
72-55-9	4,4'-DDE	13	
50-29-3	4,4'-DDT	14	
60-57-1	Dieldrin	12	
959-98-8	Endosulfan I	5.0	
33213-65-9	Endosulfan II	14	
1031-07-8	Endosulfan sulfate	13	
72-20-8	Endrin	14	
7421-93-4	Endrin Aldehyde	5.7	
76-44-8	Heptachlor	6.3	
1024-57-3	Heptachlor Epoxide	5.7	
72-43-5	Methoxychlor	13	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	15	
5103-74-2	gamma-Chlordane	5.7	B
5103-71-9	alpha-Chlordane	5.9	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB53-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	0.35	JP
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	0.69	J
959-98-8	Endosulfan I	2.0	J
33213-65-9	Endosulfan II	0.71	JP
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	1.3	J
76-44-8	Heptachlor	0.51	J
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	120	
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	0.24	JBP
5103-71-9	alpha-Chlordane	0.62	JP

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB54-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.0	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	0.85	JP
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB55-00-2.5-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	0.67	J
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	0.25	JP
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB56-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.0	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB59-9-10

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	0.41	JP
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	1.6	JP
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	1.2	JP
959-98-8	Endosulfan I	1.3	JP
33213-65-9	Endosulfan II	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	0.68	JP
7421-93-4	Endrin Aldehyde	0.52	J
76-44-8	Heptachlor	1.8	JP
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	0.91	JBP
5103-71-9	alpha-Chlordane	6.6	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB80-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	0.99	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	2.0	J
50-29-3	4,4'-DDT	2.9	J
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	0.38	J
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	0.45	JB
5103-71-9	alpha-Chlordane	0.34	J

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB89-6.5-7.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.95	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	1.4	JP
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	0.40	JP
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS52-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	0.61	JP
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	0.26	J
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.3	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.3	U
319-86-8	delta-BHC	0.90	JP
58-89-9	gamma-BHC (Lindane)	0.95	JP
72-54-8	4,4'-DDD	2.0	JP
72-55-9	4,4'-DDE	4.4	U
50-29-3	4,4'-DDT	4.4	U
60-57-1	Dieldrin	4.4	U
959-98-8	Endosulfan I	1.2	JP
33213-65-9	Endosulfan II	4.4	U
1031-07-8	Endosulfan sulfate	20	
72-20-8	Endrin	3.5	JP
7421-93-4	Endrin Aldehyde	4.4	U
76-44-8	Heptachlor	0.48	J
1024-57-3	Heptachlor Epoxide	2.3	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	5.4	P
5103-74-2	gamma-Chlordane	1.1	JBP
5103-71-9	alpha-Chlordane	0.68	JP

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-05RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	11	U
319-85-7	beta-BHC	5.7	U
319-84-6	alpha-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
72-54-8	4,4'-DDD	22	U
72-55-9	4,4'-DDE	22	U
50-29-3	4,4'-DDT	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	11	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	21	DJP
72-20-8	Endrin	22	U
7421-93-4	Endrin Aldehyde	22	U
76-44-8	Heptachlor	11	U
1024-57-3	Heptachlor Epoxide	11	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	550	U
53494-70-5	Endrin Ketone	22	U
5103-74-2	gamma-Chlordane	11	U
5103-71-9	alpha-Chlordane	3.6	DJ

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 0051719-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	9.1	
319-85-7	beta-BHC	6.1	P
319-84-6	alpha-BHC	6.0	
319-86-8	delta-BHC	12	
58-89-9	gamma-BHC (Lindane)	6.3	P
72-54-8	4,4'-DDD	21	
72-55-9	4,4'-DDE	21	
50-29-3	4,4'-DDT	21	P
60-57-1	Dieldrin	17	
959-98-8	Endosulfan I	9.1	
33213-65-9	Endosulfan II	22	
1031-07-8	Endosulfan sulfate	42	EP
72-20-8	Endrin	21	
7421-93-4	Endrin Aldehyde	17	P
76-44-8	Heptachlor	7.6	
1024-57-3	Heptachlor Epoxide	9.5	
72-43-5	Methoxychlor	30	
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	15	P
5103-74-2	gamma-Chlordane	8.5	BP
5103-71-9	alpha-Chlordane	12	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 0051719-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.1	
319-85-7	beta-BHC	6.1	P
319-84-6	alpha-BHC	5.3	
319-86-8	delta-BHC	7.0	
58-89-9	gamma-BHC (Lindane)	6.2	
72-54-8	4,4'-DDD	17	
72-55-9	4,4'-DDE	16	
50-29-3	4,4'-DDT	20	
60-57-1	Dieldrin	14	
959-98-8	Endosulfan I	6.8	
33213-65-9	Endosulfan II	16	
1031-07-8	Endosulfan sulfate	34	
72-20-8	Endrin	16	
7421-93-4	Endrin Aldehyde	9.8	P
76-44-8	Heptachlor	8.1	
1024-57-3	Heptachlor Epoxide	6.4	
72-43-5	Methoxychlor	170	
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	17	P
5103-74-2	gamma-Chlordane	7.5	B
5103-71-9	alpha-Chlordane	7.5	P

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS54-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.48	JP
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	J
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	0.53	JP
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	0.46	JP
959-98-8	Endosulfan I	1.1	J
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	2.0	J
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	0.19	JP
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	0.36	JBP
5103-71-9	alpha-Chlordane	0.82	JP

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS55-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	0.27	J
319-85-7	beta-BHC	1.3	U
319-84-6	alpha-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
72-54-8	4,4'-DDD	5.0	U
72-55-9	4,4'-DDE	5.0	U
50-29-3	4,4'-DDT	5.0	U
60-57-1	Dieldrin	5.0	U
959-98-8	Endosulfan I	2.6	U
33213-65-9	Endosulfan II	5.0	U
1031-07-8	Endosulfan sulfate	0.99	JP
72-20-8	Endrin	5.0	U
7421-93-4	Endrin Aldehyde	5.0	U
76-44-8	Heptachlor	2.6	U
1024-57-3	Heptachlor Epoxide	2.6	U
72-43-5	Methoxychlor	3.5	JP
8001-35-2	Toxaphene	130	U
53494-70-5	Endrin Ketone	1.0	JP
5103-74-2	gamma-Chlordane	2.6	U
5103-71-9	alpha-Chlordane	2.6	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS56-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.1	
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	1.1	JP
58-89-9	gamma-BHC (Lindane)	1.6	JP
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	1.1	JP
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	1.4	J
959-98-8	Endosulfan I	1.6	J
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	1.4	J
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	0.66	JP
76-44-8	Heptachlor	0.39	JP
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	0.65	JB
5103-71-9	alpha-Chlordane	1.7	J

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS57-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.2	U
1031-07-8	Endosulfan sulfate	4.4	P
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	0.47	J
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	1.1	JP
5103-74-2	gamma-Chlordane	2.2	U
5103-71-9	alpha-Chlordane	2.2	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS58-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.90	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.22	J
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS59-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	0.24	JP
319-85-7	beta-BHC	0.90	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.54	JP
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.2	J
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	0.25	JP
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS60-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.94	U
319-84-6	alpha-BHC	0.43	J
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	0.82	J
60-57-1	Dieldrin	0.49	JP
959-98-8	Endosulfan I	0.21	JP
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	5.1	P
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	1.1	JP
76-44-8	Heptachlor	0.23	JP
1024-57-3	Heptachlor Epoxide	0.20	JP
72-43-5	Methoxychlor	24	P
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	13	
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	0.22	JP

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS60-00-01DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-14RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	9.3	U
319-85-7	beta-BHC	4.7	U
319-84-6	alpha-BHC	9.3	U
319-86-8	delta-BHC	9.3	U
58-89-9	gamma-BHC (Lindane)	9.3	U
72-54-8	4,4'-DDD	18	U
72-55-9	4,4'-DDE	18	U
50-29-3	4,4'-DDT	18	U
60-57-1	Dieldrin	18	U
959-98-8	Endosulfan I	9.3	U
33213-65-9	Endosulfan II	18	U
1031-07-8	Endosulfan sulfate	18	U
72-20-8	Endrin	18	U
7421-93-4	Endrin Aldehyde	18	U
76-44-8	Heptachlor	9.3	U
1024-57-3	Heptachlor Epoxide	9.3	U
72-43-5	Methoxychlor	93	U
8001-35-2	Toxaphene	460	U
53494-70-5	Endrin Ketone	18	U
5103-74-2	gamma-Chlordane	9.3	U
5103-71-9	alpha-Chlordane	9.3	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS78-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.92	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	4.0	
50-29-3	4,4'-DDT	1.4	JP
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	0.42	JP
76-44-8	Heptachlor	0.46	JP
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	89	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	0.47	JP

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS80-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.4	J
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	1.8	JP
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	2.3	J
72-55-9	4,4'-DDE	11	
50-29-3	4,4'-DDT	85	E
60-57-1	Dieldrin	1.5	JP
959-98-8	Endosulfan I	0.76	JP
33213-65-9	Endosulfan II	5.1	P
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	0.85	JP
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	0.62	JP
5103-74-2	gamma-Chlordane	11	BP
5103-71-9	alpha-Chlordane	6.3	P

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS80-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-07RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	21	U
319-85-7	beta-BHC	11	U
319-84-6	alpha-BHC	21	U
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	21	U
72-54-8	4,4'-DDD	41	U
72-55-9	4,4'-DDE	10	DJ
50-29-3	4,4'-DDT	81	D
60-57-1	Dieldrin	41	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	25	DJ
1031-07-8	Endosulfan sulfate	41	U
72-20-8	Endrin	11	DJ
7421-93-4	Endrin Aldehyde	41	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor Epoxide	21	U
72-43-5	Methoxychlor	210	U
8001-35-2	Toxaphene	1000	U
53494-70-5	Endrin Ketone	41	U
5103-74-2	gamma-Chlordane	8.1	DJBP
5103-71-9	alpha-Chlordane	6.2	DJP

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS85-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.95	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	0.22	JP
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS89-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.7	P
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	2.5	JP
60-57-1	Dieldrin	2.0	JP
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	16	
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	0.40	JP
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	2.6	J
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.3	JBP
5103-71-9	alpha-Chlordane	1.8	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS89-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-18RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	9.2	U
319-85-7	beta-BHC	4.6	U
319-84-6	alpha-BHC	9.2	U
319-86-8	delta-BHC	9.2	U
58-89-9	gamma-BHC (Lindane)	9.2	U
72-54-8	4,4'-DDD	18	U
72-55-9	4,4'-DDE	2.2	DJP
50-29-3	4,4'-DDT	3.1	DJ
60-57-1	Dieldrin	2.2	DJP
959-98-8	Endosulfan I	1.6	DJ
33213-65-9	Endosulfan II	19	D
1031-07-8	Endosulfan sulfate	18	U
72-20-8	Endrin	4.4	DJ
7421-93-4	Endrin Aldehyde	18	U
76-44-8	Heptachlor	9.2	U
1024-57-3	Heptachlor Epoxide	9.2	U
72-43-5	Methoxychlor	92	U
8001-35-2	Toxaphene	450	U
53494-70-5	Endrin Ketone	18	U
5103-74-2	gamma-Chlordane	9.2	U
5103-71-9	alpha-Chlordane	9.2	U

C. Form II

Surrogate spike analysis

- By level (low, medium) -

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC	#	S1 2 %REC	#	TCX 1 %REC	#	TCX 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKBD	73		74		74		68	*			1
02	PBDLCS	100		102		100		102				0
03	SS53-0-1MS	110		116		88		82				0
04	SS53-0-1MSD	570	*	478	*	85		95				2
05	SS55-00-01	110		111		86		88				0
06	SB55-00-2.5-	98		97		97		89				0
07	SS54-0-1	91		91		80		75				0
08	SB54-4-5	85		89		84		77				0
09	SS53-0-1	99		90		91		78				0
10	SB53-7-8	82		82		71		63	*			1
11	SS80-0-1	92		95		100		92				0
12	SB80-3-4	86		81		80		84				0
13	SS56-0-1	86		86		92		94				0
14	SB56-3-4	84		87		79		78				0
15	SS58-0-1	86		91		100		94				0
16	SS52-0-1	83		92		90		80				0
17	SS57-0-1	87		84		99		76				0
18	SS60-00-01	85		88		84		86				0
19	SS59-00-01	80		82		87		78				0
20	SB59-9-10	81		83		82		74				0
21	SS85-0-1	80		84		87		86				0
22	SS89-0-1	84		98		83		105				0
23	SB89-6.5-7.5	79		83		75		74				0
24	SS78-0-1	74		77		76		71				0
25	SS53-0-1DL	110		89		74		80				0
26	SS80-0-1DL	110		94		100		84				0
27	SS60-00-01DL	110		103		89		88				0
28	SS89-0-1DL	120		103		95		93				0
29												
30												

ADVISORY QC LIMITS

S1 = Decachlorobiphenyl (55-130)
S2 (TCX) = Tetrachloro-m-Xylene (70-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results
- By level (low, medium) -
Laboratory Control Sample(s)

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix Spike - EPA Sample No.: SS53-0-1

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aldrin	6.7	0.0	9.1	136	45-140
beta-BHC	6.7	0.0	6.1	91	60-125
alpha-BHC	6.7	0.0	6.0	90	60-125
delta-BHC	6.7	0.90	12	166*	55-130
gamma-BHC (Lindane)	6.7	0.95	6.3	80	60-125
4,4'-DDD	17	2.0	21	112	30-135
4,4'-DDE	17	0.0	21	124	70-125
4,4'-DDT	17	0.0	21	124	45-140
Dieldrin	17	0.0	17	100	65-125
Endosulfan I	6.7	1.2	9.1	118	15-135
Endosulfan II	17	0.0	22	129	35-140
Endosulfan sulfate	17	20	42	129	60-135
Endrin	17	3.5	21	103	60-135
Endrin Aldehyde	17	0.0	17	100	35-145
Heptachlor	6.7	0.48	7.6	106	50-140
Heptachlor Epoxide	6.7	0.0	9.5	142*	65-130
Methoxychlor	17	0.0	30	176*	55-145
Endrin Ketone	17	5.4	15	56*	65-135
gamma-Chlordane	6.7	1.1	8.5	110	65-125
alpha-Chlordane	6.7	0.68	12	169*	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix Spike - EPA Sample No.: SS53-0-1

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	6.7	5.1	76	56*	40	45-140
beta-BHC	6.7	6.1	91	0	40	60-125
alpha-BHC	6.7	5.3	79	12	40	60-125
delta-BHC	6.7	7.0	91	53*	40	55-130
gamma-BHC (Lindane)	6.7	6.2	78	2	40	60-125
4,4'-DDD	17	17	88	21	40	30-135
4,4'-DDE	17	16	94	27	40	70-125
4,4'-DDT	17	20	118	5	40	45-140
Dieldrin	17	14	82	19	40	65-125
Endosulfan I	6.7	6.8	84	29	40	15-135
Endosulfan II	17	16	94	32	40	35-140
Endosulfan sulfate	17	34	82	21	40	60-135
Endrin	17	16	74	27	40	60-135
Endrin Aldehyde	17	9.8	58	54*	40	35-145
Heptachlor	6.7	8.1	114	6	40	50-140
Heptachlor Epoxide	6.7	6.4	96	39	40	65-130
Methoxychlor	17	170	1000*	140*	40	55-145
Endrin Ketone	17	17	68	12	40	65-135
gamma-Chlordane	6.7	7.5	96	12	40	65-125
alpha-Chlordane	6.7	7.5	102	46*	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 5 out of 20 outside limits
Spike Recovery: 6 out of 40 outside limits

COMMENTS: _____

3F
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

LCS ID: PBDLCS

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aldrin	5.0	4.8	96	45-140
beta-BHC	5.0	4.7	94	60-125
alpha-BHC	5.0	5.5	110	60-125
delta-BHC	5.0	5.8	120	55-130
gamma-BHC (Lindane)	5.0	5.3	110	60-125
4,4'-DDD	13	15	120	30-135
4,4'-DDE	13	13	100	70-125
4,4'-DDT	13	14	110	45-140
Dieldrin	13	12	92	65-125
Endosulfan I	5.0	5.0	100	15-135
Endosulfan II	13	14	110	35-140
Endosulfan sulfate	13	13	100	60-135
Endrin	13	14	110	60-135
Endrin Aldehyde	13	5.7	44	35-145
Heptachlor	5.0	6.3	130	50-140
Heptachlor Epoxide	5.0	5.7	110	65-130
Methoxychlor	13	13	100	55-145
Endrin Ketone	13	15	120	65-135
gamma-Chlordane	5.0	5.7	110	65-125
alpha-Chlordane	5.0	5.9	120	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS: _____

E. Form IV

Method Blank Results
Form IV, Form I

Method blank summary, OADS,
- In chronological order of analysis

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-BLK1 Lab File ID: 051J0051719-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/18/10

Date Analyzed (1): 05/29/10 Date Analyzed (2): 05/29/10

Time Analyzed (1): 1657 Time Analyzed (2): 1657

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBDLCS	0051719-BS1	05/29/10	05/29/10
02	SS53-0-1MS	0051719-MS1	05/29/10	05/29/10
03	SS53-0-1MSD	0051719-MSD1	05/29/10	05/29/10
04	SS55-00-01	1005129-01	05/29/10	05/29/10
05	SB55-00-2.5-	1005129-02	05/29/10	05/29/10
06	SS54-0-1	1005129-03	05/29/10	05/29/10
07	SB54-4-5	1005129-04	05/29/10	05/29/10
08	SS53-0-1	1005129-05	05/29/10	05/29/10
09	SB53-7-8	1005129-06	05/29/10	05/29/10
10	SS80-0-1	1005129-07	05/29/10	05/29/10
11	SB80-3-4	1005129-08	05/30/10	05/30/10
12	SS56-0-1	1005129-09	05/30/10	05/30/10
13	SB56-3-4	1005129-10	05/30/10	05/30/10
14	SS58-0-1	1005129-11	05/30/10	05/30/10
15	SS52-0-1	1005129-12	05/30/10	05/30/10
16	SS57-0-1	1005129-13	05/30/10	05/30/10
17	SS60-00-01	1005129-14	05/30/10	05/30/10
18	SS59-00-01	1005129-15	05/30/10	05/30/10
19	SB59-9-10	1005129-16	05/30/10	05/30/10
20	SS85-0-1	1005129-17	05/30/10	05/30/10
21	SS89-0-1	1005129-18	05/30/10	05/30/10
22	SB89-6.5-7.5	1005129-19	05/30/10	05/30/10
23	SS78-0-1	1005129-20	05/30/10	05/30/10
24	SS53-0-1DL	1005129-05RE1	06/03/10	06/03/10
25	SS80-0-1DL	1005129-07RE1	06/03/10	06/03/10
26	SS60-00-01DL	1005129-14RE1	06/03/10	06/03/10

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-BLK1 Lab File ID: 051J0051719-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/18/10

Date Analyzed (1): 05/29/10 Date Analyzed (2): 05/29/10

Time Analyzed (1): 1657 Time Analyzed (2): 1657

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SS89-0-1DL	1005129-18RE1	06/03/10	06/03/10
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKBD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 0051719-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-85-7	beta-BHC	0.85	U
319-84-6	alpha-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	3.3	U
72-55-9	4,4'-DDE	3.3	U
50-29-3	4,4'-DDT	3.3	U
60-57-1	Dieldrin	3.3	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
72-20-8	Endrin	3.3	U
7421-93-4	Endrin Aldehyde	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor Epoxide	1.7	U
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	3.3	U
5103-74-2	gamma-Chlordane	0.24	JP
5103-71-9	alpha-Chlordane	1.7	U

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC by SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalysis, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005129

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005129
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SB53-7-8, SB54-4-5, SB55-00-2.5-3, SB56-3-4, SB59-9-10, SB80-3-4, SB89-6.5-7.5, SS52-0-1, SS53-0-1, SS54-0-1, SS55-00-01, SS56-0-1, SS57-0-1, SS58-0-1, SS59-00-01, SS60-00-01, SS78-0-1, SS80-0-1, SS85-0-1 ,SS89-0-1

The twenty soil samples listed above were received intact, refrigerated between 0.2 and 4.1°C, with proper documentation, in sealed shipping containers, on May 13th and 14th, 2010. The samples were scheduled for the requested analysis of the Pesticide fraction only. SW-846, 3rd Edition, Update 4, Method 8081B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # 1005129 are included in the sample data sections.

Pesticide

Extraction and analysis holding time requirements were met for the samples. The samples in this SDG were further cleaned through GPC cleanup process.

Target analytes confirmed above the reporting limits in samples SB53-7-8, SB59-9-10, SS53-0-1, SS56-0-1, SS60-00-01, SS78-0-1, SS80-0-1, and SS89-0-1. Samples SS53-0-1, SS80-0-1, SS60-00-01, and SS89-0-1 were analyzed at a dilution due to target analytes exceeding the calibration range on the higher of the two columns.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All surrogate recoveries were with the method specified limits, with the exception of Tetrachloro-m-xylene on the clpest2 column in samples PBLKBD and SB53-7-8 and Decachlorobiphenyl on both columns in sample SS53-0-1MSD. These recovery limits were within the laboratory's in house limits.

The method blank associated with the samples met all quality control criteria.

Duplicate matrix spike samples were performed with sample SS53-0-1, and did not meet all recovery and precision criteria. The Laboratory Control Sample (LCS) prepared and analyzed with the samples met recovery criteria.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Teresa Amentt Jennings

Teresa Amentt Jennings
GC/HPLC Data Reviewer
June 4, 2010

Manual Integrations									
SDG:	1005129								
Sample(s)	PBLKBD	PBDLCS	SS53-0-1MSD	SS55-00-01	SS55-00-2.5-3	SS54-0-1	SS53-0-1	SS53-7-8	SS80-0-1
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC									
delta-BHC									
Heptachlor					X				
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane	X	X						X	
alpha-Chlordane			X					X	X
Endosulfan I									
4,4'-DDE									
Dieldrin			X						X
Endrin			X						
4,4'-DDD		X							X
Endosulfan II		X	X						
4,4'-DDT									X
Endrin Aldehyde									
Endosulfan sulfate			X			X			
Methoxychlor									
Endrin Ketone				X			X		
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

Manual Integrations									
SDG:	1005129								
Sample(s)	SB80-3-4	SB56-3-4	SS52-0-1	SS57-0-1	SS59-9-10	SS89-0-1	SS78-0-1	SS60-00-01	SS53-0-1DL
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC									
delta-BHC									
Heptachlor	X	X	X						
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane	X						X		
alpha-Chlordane	X				X		X		X
Endosulfan I					X				
4,4'-DDE									
Dieldrin					X				
Endrin									
4,4'-DDD									
Endosulfan II									
4,4'-DDT	X					X			
Endrin Aldehyde									
Endosulfan sulfate				X				X	
Methoxychlor						X			
Endrin Ketone				X					
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

Manual Integrations									
SDG:	1005129								
Sample(s)	SS80-0-1DL	SS89-0-1DL							
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC									
delta-BHC									
Heptachlor									
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane	X								
alpha-Chlordane	X								
Endosulfan I									
4,4'-DDE									
Dieldrin									
Endrin	X								
4,4'-DDD									
Endosulfan II									
4,4'-DDT		X							
Endrin Aldehyde									
Endosulfan sulfate									
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005129

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
✓	Restek	clpest	0.32	0.5	30
✓	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

GC and GC/MS Volatiles Laboratory	
Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
	* 1.2 cm Carbopack B
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
	* 6 cm of Carboxen 1000 (Carbon molecular sieves)
	* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24804

62

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS/RDU

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)? NO

Required Analysis/Method Number

Matrix codes: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL PEST. 3550/8081A	Chromium VI, ~~SW846~~ 7196A	Metals 6010B/7471A	GRAINSIZE ASTM D422	Total Chromium 6010B		Grain size		
1005130-01	BBG-SS23-00-01-10B	5-10-10	1620	SO	3							X	X	X		X	X		1005166-01		
-02	BBG-SB23-1.5-2-10B	5-10-10	1630	SO	3							X	X	X		X	X			-02	
1005129-01	BBG-SS55-00-01-10B	5-11-10	0740	SO	3							X	X	X	X	X				-03	
-02	BBG-SB55-2.5-3-10B	5-11-10	0750	SO	3							X	X	X	X	X				-04	
-03	BBG-SS54-0-1-10B	5-11-10	0840	SO	3							X	X	X	X	X			1005210-18		
-04	BBG-SB54-4-5-10B	5-11-10	0850	SO	3							X	X	X	X	X			1005166-05		

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or N/A
625 & Phenol samples checked for chlorine? Y or N/A
608 samples checked for pH between 5.0-9.0? Y or N/A

Comments

Sample Custody

Relinquished by:	Date/Time:	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grainsize to CT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24805

Page 1 of 1

63

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8 oz 2 oz 8 oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 CLEVELAND St STE
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: ROBERNA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N) N/A
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Requested Analysis (include method and/or Preserv.)

Matrix codes: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem Rpt No. (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	(2)PCB SIMPAH 3550B/8270C	TCL PESTICIDES 3550/8081A	CHROMIUM VI (SW) 3060A/7196A	METALS 6010B/7471A	GRAINSIZE ASTM D422	TOTAL CHROMIUM 6010B		GRAINSIZE	
1005129-05	BBG-SS53-0-1-10B	5.11.10	0950	SO	3							X	X	X	X	X			1005166-06	
-05	BBG-SS53-0-1-10B-MS	5.11.10	0950	SO	3							X	X	X	X					
-05	BBG-SS53-0-1-10B-SD	5.11.10	0950	SO	3							X	X	X	X					
-06	BBG-SB53-7-8-10B	5.11.10	0955	SO	3							X	X	X	X	X			1005166-07	
1005130-03	BBG-SS24-0-1-10B	5.11.10	1045	SO	3							X	X	X		X	X		1005166-08	
-04	BBG-SB24-3-4-10B	5.11.10	1055	SO	3							X	X	X		X	X		1005166-09	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 5-12-10/ 1300	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? GRAINSIZE to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24807

Page 1 of 1

64

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (see back for method/reporting limits)

Matrix codes: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 8270C/3550B	TCL PEST. 3550/8081A	Chromium VI, ## 7196A/3060A (2 oz)	MCRS 6010B/7471A (8 oz)	GRAINSIZE ASTM D422	TOTAL CHROMIUM (6010B)		Grain size		
1005130-05	BBG-SS49-0-1-10B	5-11-10	1405	SO	3							X	X	X		X	X		1005166-10		
-06	BBG-SB49-11-12-10B	5.12.10	1422	SO	3							X	X	X		X	X			-11	
1005129-07	BBG-SS80-0-1-10B	5.12.10	0755	SO	3							X	X	X	X	X				-12	
-08	BBG-SB80-3-4-10B	5.12.10	0800	SO	3							X	X	X	X	X				-13	
1005130-07	BBG-SS50-0-1-10B	5.11.10	1445	SO	3							X	X	X		X	X			-14	
-07	BBG-SS50-0-1-10B-MS	5.11.10	1445	SO	3							X	X	X		X	X				
-07	BBG-SS50-0-1-10B-SD	5-11-10	1445	SO	3							X	X	X		X	X				

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

SB49-11-12-10B Sample time reads 1420 DR 4/13/10

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: Diane Byrd	Date/Time: 5-13-10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24806

65

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information	Requested Analysis (Include method and bottle type)	Matrices
Company Name: CH2M HILL	Project Name: CTO-94		GW - Ground water
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ		WW - Waste water
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT		SW - Surface water
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?		SO - Soil/Sediment
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)		TB - Trip Blank
Sampler's Name: K. ROGERS/RON	Are high concentrations expected? Y or (N) If yes, which ID(s)?		RI - Rinsate
			WP - Wipe
			O - Other

Lab Sample ID (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL Pest. 3550/8081A	Chromium VI 7196A	Metals 6010B/7471A	Grain Size ASTM D422	Total Chromium 6010B		Grain Size	Lab Sample ID (Lab Use)
1005129-09	BBG-SB56-0-1-10B	5-11-10	1125	SO	3							X	X	X	X	X			1005166-15	
-10	BBG-SB56-3-4-10B	5-11-10	1130	SO	3			BBG-SB56-3-4-10B				X	X	X	X	X				-16
-11	BBG-SB58-0-1-10B	5-12-10	1015	SO	3							X	X	X	X	X				-17
1005130-08	BBG-SB47-11-15-10B	5-12-10	0940	SO	3							X	X	X		X	X			-18
-09	BBG-SB47-0-1-10B	5-12-10	0910	SO	3							X	X	X		X	X			-19
-10	BBG-SB11-0-1-10B	5-11-10	1605	SO	3							X	X	X		X	X			-20
-11	BBG-SB11-11-12-10B	5-11-10	1620	SO	3							X	X	X		X	X		1005209-01	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments:

Sample Custody

Relinquished by:	Date/Time: 5/12/10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain Size to CTLABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 4.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

2477U 99

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

Courier	
Airbill No.	
Sampling Complete? Y or N	

Client/Reporting Information

Company Name	CH2M HILL
Address	5700 Cleveland St, Ste 101
City / State / Zip	VA Beach / VA / 23462
Project Contact	Rebekha Shaw
Phone #	757-671-6279
Sampler's Name	K. Rogers / RDM

Project Information

Project Name	CTO-94
Sampling Location	MCB Camp Lejeune
Turnaround time	
Batch QC or Project Specific? If Specific, which Sample ID?	
Are aqueous samples field filtered for metals?	Y or (N)
Are high concentrations expected?	Y or (N)? If yes, which ID(s)?

Requested Analysis (include method and bottle type): PAH's (8270C) (Share 1-8oz) 2-02; TCL Pest. (8081A) (2-AL); Total Metals (6010B) (1-500ml); Total Chromium (6010B); Chromium VI (7196A) (1-125ml); Grain Size (1-8oz.)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Date	Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's	TCL Pest.	Total Metals	Total Chromium	Chromium VI	Grain Size	Grain size	pH
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X			<2
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X	1005209-02	
-13	BBG-SS48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X	-03	
1005129-12	BBG-SS52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X	-04	
-13	BBG-SS57-0-1-10B	5-12-10	12:05	SO	3							X	X	X		X	X	-05	

Lab Use Only

Sample Unpacked By: K. Manning	Cyanide samples checked for sulfide & chlorine? Y or (NA)
Sample Order Entry By: [illegible]	625 & Phenol samples checked for chlorine? Y or (NA)
Samples Received in Good Condition? (Y) or N	608 samples checked for pH between 5.0-9.0? Y or (NA)
If no, explain:	

Comments

Sample Custody

Relinquished by: [signature]	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? (Y) or N If yes, where? Grain size to GT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

CompuChem
a division of Liberty Analytical Corp.

Residual Chlorine Present? Yes No

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

24111

Page 1 of

Courier
Airbill No.
Sampling Complete? Y or N

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Client/Reporting Information

Company Name: CH2M Hill
Address: 5700 Cleveland St, Ste101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: Kristin Rogers / RDU

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Lab ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Chrom VI (7196A)	Total Chrom (6010B)	Total Metals (6010B)	Grain Size (ASTM D422)	SIM PAH's (8270C)	TCL Pest. (8081A)		Grain size		
1005130-14	BBG-SS18-0-1-10B	5-12-10	1505	SO	3							X	X		X	X	X		1005209-06		
-15	BBG-SS18-12-13-10B	5-12-10	1520	SO	3							X	X		X	X	X			-07	
1005129-14	BBG-SS60-0-1-10B	5-12-10	1555	SO	3							X		X	X	X	X			-08	
-15	BBG-SS59-0-1-10B	5-12-10	1640	SO	3							X		X	X	X	X			-09	
-16	BBG-SB59-9-10-10B	5-12-10	1655	SO	3							X		X	X	X	X			-10	
1005130-16	BBG-SS25-0-1-10B	5-13-10	1105	SO	3							X	X		X	X	X			-11	
-17	BBG-SB25-3-4-10B	5-13-10	1110	SO	3							X	X		X	X	X			-12	

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By: Amy Bone
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments:

Relinquished by:	Date/Time: 5-13-10 / 1330	Received by: Diane Byrd	Date/Time: 5/14/10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 1.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SW0015

24772

Page 1 of 1

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information		Project Information		Requested Analysis (see TestCode Sheet)												Matrix Codes
Company Name: CH2M HILL		Project Name: CTO-94														GW - Ground water
Address: 5700 Cleveland St, 101		Sampling Location: MCB Camp Lejeune														WW - Waste water
City: VA Beach State: VA Zip: 23462		Turnaround time														SW - Surface water
Project Contact: Rebekka Shaw		Batch QC or Project Specific? If Specific, which Sample ID?														SO - Soil/Sediment
Phone #: 757-671-6279		Are aqueous samples field filtered for metals? Y or (N)														TB - Trip Blank
Sampler's Name: K Rogers / RDW		Are high concentrations expected? Y or (N) If yes, which ID(s)?														RI - Rinsate
																WP - Wipe
																O - Other

CompuChem Sample ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B)	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C)	TCL Pest (8081A)	Grainsize (ASTM D422) 8oz		Grain size	Lab Sample ID (Lab Use Only)
1005129-17	BBG-SB85-0-1-10B	5-13-10	0740	SO	3							X		X	X	X	X		1005209-13	
1005132-01	BBG-SB85-1.5-2.5-10B	5-13-10	0745	SO	3							X		X	X	X	X		-14	
	BBG-SB85-1.5-2.5-10B-MS*	5-13-10	0745	SO	2							X		X	X	X	X(2)		no grainsize	
	BBG-SB85-1.5-2.5-10B-SD*	5-13-10	0745	SO	2							X		X	X	X	X(2)		on MS/MSD	
1005129-18	BBG-SB89-0-1-10B	5-13-10	0825	SO	3							X		X	X	X	X		1005209-15	
-19	BBG-SB89-6.5-7.5-10B	5-13-10	0845	SO	3							X		X	X	X	X		-16	
-20	BBG-SB78-0-1-10B	5-13-10	0930	SO	3							X		X	X	X	X		-17	
1005132-02	BBG-SB78-3.5-4.5-10B	5-13-10	1040	SO	3							X		X	X	X	X		-18	

(MS) (SD) X 10

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

BBG-SB85-1.5-2.5-10B (MS + SD) Did not receive grainsize jar. DB 5/14/10

Custody Seal(s)

Relinquished by:	Date/Time: 5-13-10 1330	Received by: Diane Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

89

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	05/27/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	06/03/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	05/27/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	06/03/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	05/27/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	06/03/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	05/27/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	06/03/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	05/27/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	06/03/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS56-0-1-10B

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	05/27/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	06/03/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	05/27/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	06/03/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	05/27/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	06/03/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	05/27/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	06/03/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	05/27/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	06/03/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS56-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS56-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-10	SB56-3-4	05/11/2010	05/13/2010	05/27/2010	BBG-SB56-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-10	SB56-3-4	05/11/2010	05/13/2010	06/03/2010	BBG-SB56-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-11	SS58-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS58-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-11	SS58-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS58-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-12	SS52-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS52-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-12	SS52-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS52-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-13	SS57-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS57-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-13	SS57-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS57-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-14	SS60-00-01	05/12/2010	05/14/2010	05/27/2010	BBG-SS60-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-14	SS60-00-01	05/12/2010	05/14/2010	06/03/2010	BBG-SS60-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-15	SS59-00-01	05/12/2010	05/14/2010	05/27/2010	BBG-SS59-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-15	SS59-00-01	05/12/2010	05/14/2010	06/03/2010	BBG-SS59-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-16	SB59-9-10	05/12/2010	05/14/2010	05/27/2010	BBG-SB59-9-10-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-16	SB59-9-10	05/12/2010	05/14/2010	06/03/2010	BBG-SB59-9-10-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-17	SS85-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS85-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-17	SS85-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS85-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-18	SS89-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS89-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-18	SS89-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS89-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-19	SB89-6.5-7.5	05/13/2010	05/14/2010	05/27/2010	BBG-SB89-6.5-7.5-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-19	SB89-6.5-7.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB89-6.5-7.5-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-20	SS78-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS78-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-20	SS78-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS78-0-1-10B

WORK ORDER

Printed: 5/28/2010 6:51:57PM

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Prepared**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/03/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/14/2010 09:20

Logged In By: Cathy Dover — Date Logged In: 05/14/2010 19:10

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005129-05 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A*TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005129-01 SS55-00-01 [Soil] Sampled 05/11/2010 07:40 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:40	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:40	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:40	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:40	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:40	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-02 SB55-00-2.5-3 [Soil] Sampled 05/11/2010 07:50 Eastern					
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:50	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:50	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:50	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:50	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:50	05/13/2010 09:30	SubList = GC- 8081 DOD

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005129-03 SS54-0-1 [Soil] Sampled 05/11/2010 08:40 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:40	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:40	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:40	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:40	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:40	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-04 SB54-4-5 [Soil] Sampled 05/11/2010 08:50 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:50	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:50	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:50	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:50	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:50	05/13/2010 09:30	SubList = SVsim- PAH
1005129-05 SS53-0-1 [Soil] Sampled 05/11/2010 09:50 Eastern					**USE FOR QC**
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:50	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:50	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:50	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:50	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:50	05/13/2010 09:30	
1005129-06 SB53-7-8 [Soil] Sampled 05/11/2010 09:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:55	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:55	05/13/2010 09:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:55	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:55	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:55	05/13/2010 09:30	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Received**

Analysis	Due	TAT	Expires		Comments
1005129-07 SS80-0-1 [Soil] Sampled 05/12/2010 07:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 07:55	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 07:55	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 07:55	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 07:55	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 07:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 07:55	05/13/2010 09:30	SubList = SVsim- PAH
1005129-08 SB80-3-4 [Soil] Sampled 05/12/2010 08:00 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 08:00	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 08:00	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 08:00	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 08:00	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 08:00	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 08:00	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-09 SS56-0-1 [Soil] Sampled 05/11/2010 11:25 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:25	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:25	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:25	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:25	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:25	05/13/2010 09:30	SubList = SVsim- PAH
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:25	05/13/2010 09:30	
1005129-10 SB56-3-4 [Soil] Sampled 05/11/2010 11:30 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:30	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:30	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:30	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:30	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:30	05/13/2010 09:30	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005129-11 SS58-0-1 [Soil] Sampled 05/12/2010 10:15 Eastern					
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 10:15	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 10:15	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 10:15	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 10:15	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 10:15	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 10:15	05/13/2010 09:30	SubList = SVsim- PAH
1005129-12 SS52-0-1 [Soil] Sampled 05/11/2010 15:15 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 15:15	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 15:15	05/13/2010 09:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 15:15	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 15:15	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 15:15	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 15:15	05/13/2010 09:30	
1005129-13 SS57-0-1 [Soil] Sampled 05/12/2010 12:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 12:05	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 12:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 12:05	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 12:05	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 12:05	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 12:05	05/13/2010 09:30	
1005129-14 SS60-00-01 [Soil] Sampled 05/12/2010 15:55 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 15:55	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:55	05/14/2010 09:20	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:55	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:55	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:55	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 15:55	05/14/2010 09:20	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005129-15 SS59-00-01 [Soil] Sampled 05/12/2010 16:40 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:40	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:40	05/14/2010 09:20	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:40	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:40	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:40	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:40	05/14/2010 09:20	SubList = SVsim- PAH
1005129-16 SB59-9-10 [Soil] Sampled 05/12/2010 16:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:55	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:55	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:55	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:55	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:55	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:55	05/14/2010 09:20	
1005129-17 SS85-0-1 [Soil] Sampled 05/13/2010 07:40 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 07:40	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 07:40	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 07:40	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 07:40	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 07:40	05/14/2010 09:20	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 07:40	05/14/2010 09:20	
1005129-18 SS89-0-1 [Soil] Sampled 05/13/2010 08:25 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:25	05/14/2010 09:20	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:25	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:25	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:25	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:25	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:25	05/14/2010 09:20	

WORK ORDER

Printed: 5/28/2010 6:51:57PM

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Batched**

Analysis	Due	TAT	Expires		Comments
1005129-19 SB89-6.5-7.5 [Soil] Sampled 05/13/2010 08:45 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:45	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:45	05/14/2010 09:20	SubList = SVsim- PAH
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:45	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:45	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:45	05/14/2010 09:20	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:45	05/14/2010 09:20	
1005129-20 SS78-0-1 [Soil] Sampled 05/13/2010 09:30 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 09:30	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 09:30	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 09:30	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 09:30	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 09:30	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 09:30	05/14/2010 09:20	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

DEPT: EXTR **DATE:** 5-24-10

BATCH: 005179

5-24-3

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0051719-BLK1	PBLKBD		
2	0051719-BS1	PBDLCS		
3	0051719-MS1	SS53-0-1MS		
4	0051719-MSD1	SS53-0-1MSD		
5	1005129-01	SS55-00-01		
6	1005129-02	SB55-00-2.5-3		
7	1005129-03	SS54-0-1		
8	1005129-04	SB54-4-5		
9	1005129-05	SS53-0-1		
10	1005129-06	SB53-7-8		
11	1005129-07	SS80-0-1		
12	1005129-08	SB80-3-4		
13	1005129-09	SS56-0-1		
14	1005129-10	SB56-3-4		
15	1005129-11	SS58-0-1		
16	1005129-12	SS52-0-1		
17	1005129-13	SS57-0-1		
18	1005129-14	SS60-00-01		
19	1005129-15	SS59-00-01		
20	1005129-16	SB59-9-10		
21	1005129-17	SS85-0-1		
22	1005129-18	SS89-0-1		
23	1005129-19	SB89-6.5-7.5		
24	1005129-20	SS78-0-1		
25				
26				
27				
28				

RELINQUISHED BY	DATE/TIME √ 5/24/10	REC. BY	REASON
GC#3	~~GC#2~~ 5/24/10 1455	GC#3	storage
AHW	5/24/10 1500	AHW	Tosia
	↓ ↓	GC#4	storage

Rev. 12/29/09:RM

TAJ 6/4/10

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005129

1. QC Summary

a. Surrogate Percent Recovery Summary (Form II)

b. Matrix Spike/Matrix Spike Duplicate/
Laboratory Control Sample Summary
(Form III)

c. Method Blank Summary (Form IV)

a. Surrogate Percent Recovery Summary

(Form II)

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	TCX 1 %REC #	TCX 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKBD	73	74	74	68*			1
02	PBDLCS	100	102	100	102			0
03	SS53-0-1MS	110	116	88	82			0
04	SS53-0-1MSD	570 *	478*	85	95			2
05	SS55-00-01	110	111	86	88			0
06	SB55-00-2.5-	98	97	97	89			0
07	SS54-0-1	91	91	80	75			0
08	SB54-4-5	85	89	84	77			0
09	SS53-0-1	99	90	91	78			0
10	SB53-7-8	82	82	71	63*			1
11	SS80-0-1	92	95	100	92			0
12	SB80-3-4	86	81	80	84			0
13	SS56-0-1	86	86	92	94			0
14	SB56-3-4	84	87	79	78			0
15	SS58-0-1	86	91	100	94			0
16	SS52-0-1	83	92	90	80			0
17	SS57-0-1	87	84	99	76			0
18	SS60-00-01	85	88	84	86			0
19	SS59-00-01	80	82	87	78			0
20	SB59-9-10	81	83	82	74			0
21	SS85-0-1	80	84	87	86			0
22	SS89-0-1	84	98	83	105			0
23	SB89-6.5-7.5	79	83	75	74			0
24	SS78-0-1	74	77	76	71			0
25	SS53-0-1DL	110	89	74	80			0
26	SS80-0-1DL	110	94	100	84			0
27	SS60-00-01DL	110	103	89	88			0
28	SS89-0-1DL	120	103	95	93			0
29								
30								

ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (55-130)
S2 (TCX) = Tetrachloro-m-Xylene (70-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

b. Matrix Spike/Matrix Spike Duplicate/
Laboratory Control Sample Summary

(Form III)

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix Spike - EPA Sample No.: SS53-0-1

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aldrin	6.7	0.0	9.1	136	45-140
beta-BHC	6.7	0.0	6.1	91	60-125
alpha-BHC	6.7	0.0	6.0	90	60-125
delta-BHC	6.7	0.90	12	166*	55-130
gamma-BHC (Lindane)	6.7	0.95	6.3	80	60-125
4,4'-DDD	17	2.0	21	112	30-135
4,4'-DDE	17	0.0	21	124	70-125
4,4'-DDT	17	0.0	21	124	45-140
Dieldrin	17	0.0	17	100	65-125
Endosulfan I	6.7	1.2	9.1	118	15-135
Endosulfan II	17	0.0	22	129	35-140
Endosulfan sulfate	17	20	42	129	60-135
Endrin	17	3.5	21	103	60-135
Endrin Aldehyde	17	0.0	17	100	35-145
Heptachlor	6.7	0.48	7.6	106	50-140
Heptachlor Epoxide	6.7	0.0	9.5	142*	65-130
Methoxychlor	17	0.0	30	176*	55-145
Endrin Ketone	17	5.4	15	56*	65-135
gamma-Chlordane	6.7	1.1	8.5	110	65-125
alpha-Chlordane	6.7	0.68	12	169*	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix Spike - EPA Sample No.: SS53-0-1

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	6.7	5.1	76	56*	40	45-140
beta-BHC	6.7	6.1	91	0	40	60-125
alpha-BHC	6.7	5.3	79	12	40	60-125
delta-BHC	6.7	7.0	91	53*	40	55-130
gamma-BHC (Lindane)	6.7	6.2	78	2	40	60-125
4,4'-DDD	17	17	88	21	40	30-135
4,4'-DDE	17	16	94	27	40	70-125
4,4'-DDT	17	20	118	5	40	45-140
Dieldrin	17	14	82	19	40	65-125
Endosulfan I	6.7	6.8	84	29	40	15-135
Endosulfan II	17	16	94	32	40	35-140
Endosulfan sulfate	17	34	82	21	40	60-135
Endrin	17	16	74	27	40	60-135
Endrin Aldehyde	17	9.8	58	54*	40	35-145
Heptachlor	6.7	8.1	114	6	40	50-140
Heptachlor Epoxide	6.7	6.4	96	39	40	65-130
Methoxychlor	17	170	1000*	140*	40	55-145
Endrin Ketone	17	17	68	12	40	65-135
gamma-Chlordane	6.7	7.5	96	12	40	65-125
alpha-Chlordane	6.7	7.5	102	46*	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 5 out of 20 outside limits
Spike Recovery: 6 out of 40 outside limits

COMMENTS: _____

3F
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

LCS ID: PBDLCS

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aldrin	5.0	4.8	96	45-140
beta-BHC	5.0	4.7	94	60-125
alpha-BHC	5.0	5.5	110	60-125
delta-BHC	5.0	5.8	120	55-130
gamma-BHC (Lindane)	5.0	5.3	110	60-125
4,4'-DDD	13	15	120	30-135
4,4'-DDE	13	13	100	70-125
4,4'-DDT	13	14	110	45-140
Dieldrin	13	12	92	65-125
Endosulfan I	5.0	5.0	100	15-135
Endosulfan II	13	14	110	35-140
Endosulfan sulfate	13	13	100	60-135
Endrin	13	14	110	60-135
Endrin Aldehyde	13	5.7	44	35-145
Heptachlor	5.0	6.3	130	50-140
Heptachlor Epoxide	5.0	5.7	110	65-130
Methoxychlor	13	13	100	55-145
Endrin Ketone	13	15	120	65-135
gamma-Chlordane	5.0	5.7	110	65-125
alpha-Chlordane	5.0	5.9	120	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-BLK1 Lab File ID: 051J0051719-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/18/10

Date Analyzed (1): 05/29/10 Date Analyzed (2): 05/29/10

Time Analyzed (1): 1657 Time Analyzed (2): 1657

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBDLCS	0051719-BS1	05/29/10	05/29/10
02	SS53-0-1MS	0051719-MS1	05/29/10	05/29/10
03	SS53-0-1MSD	0051719-MSD1	05/29/10	05/29/10
04	SS55-00-01	1005129-01	05/29/10	05/29/10
05	SB55-00-2.5-	1005129-02	05/29/10	05/29/10
06	SS54-0-1	1005129-03	05/29/10	05/29/10
07	SB54-4-5	1005129-04	05/29/10	05/29/10
08	SS53-0-1	1005129-05	05/29/10	05/29/10
09	SB53-7-8	1005129-06	05/29/10	05/29/10
10	SS80-0-1	1005129-07	05/29/10	05/29/10
11	SB80-3-4	1005129-08	05/30/10	05/30/10
12	SS56-0-1	1005129-09	05/30/10	05/30/10
13	SB56-3-4	1005129-10	05/30/10	05/30/10
14	SS58-0-1	1005129-11	05/30/10	05/30/10
15	SS52-0-1	1005129-12	05/30/10	05/30/10
16	SS57-0-1	1005129-13	05/30/10	05/30/10
17	SS60-00-01	1005129-14	05/30/10	05/30/10
18	SS59-00-01	1005129-15	05/30/10	05/30/10
19	SB59-9-10	1005129-16	05/30/10	05/30/10
20	SS85-0-1	1005129-17	05/30/10	05/30/10
21	SS89-0-1	1005129-18	05/30/10	05/30/10
22	SB89-6.5-7.5	1005129-19	05/30/10	05/30/10
23	SS78-0-1	1005129-20	05/30/10	05/30/10
24	SS53-0-1DL	1005129-05RE1	06/03/10	06/03/10
25	SS80-0-1DL	1005129-07RE1	06/03/10	06/03/10
26	SS60-00-01DL	1005129-14RE1	06/03/10	06/03/10

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-BLK1 Lab File ID: 051J0051719-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/18/10

Date Analyzed (1): 05/29/10 Date Analyzed (2): 05/29/10

Time Analyzed (1): 1657 Time Analyzed (2): 1657

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	SS89-0-1DL	1005129-18RE1	06/03/10	06/03/10
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I), followed by the raw data for samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results

Tabulated results (identification and quantitation) shall be included.

b. Copies of Chromatograms

Positively identified compounds shall be labeled with the names of compounds, either directly out from the peak on the chromatogram, or on a printout of retention times on the data system printout if retention times are printed over the peak on the chromatogram. Included for each sample or sample extract, dilutions, and reanalysis. The chromatogram shall contain the following header information: Client Sample ID number, volume injected (uL), date and time of injection, GC column ID, and GC instrument ID.

c. Copies of Chromatograms from the Second Column (if necessary)

d. Data System Printout

A printout of retention time and corresponding peak height or peak Area shall accompany each chromatogram. Where edits have been Made, initialing, dating and integration time range are required.

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB53-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	0.35	JP
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	0.69	J
959-98-8	Endosulfan I	2.0	J
33213-65-9	Endosulfan II	0.71	JP
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	1.3	J
76-44-8	Heptachlor	0.51	J
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	120	
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	0.24	JBP
5103-71-9	alpha-Chlordane	0.62	JP

Data File: /chem/tracegc84.i/j100528c.b/060j1005129-06.d

Date : 29-MAY-2010 21:17

Client ID: SB53-7-8

Instrument: tracegc84.i

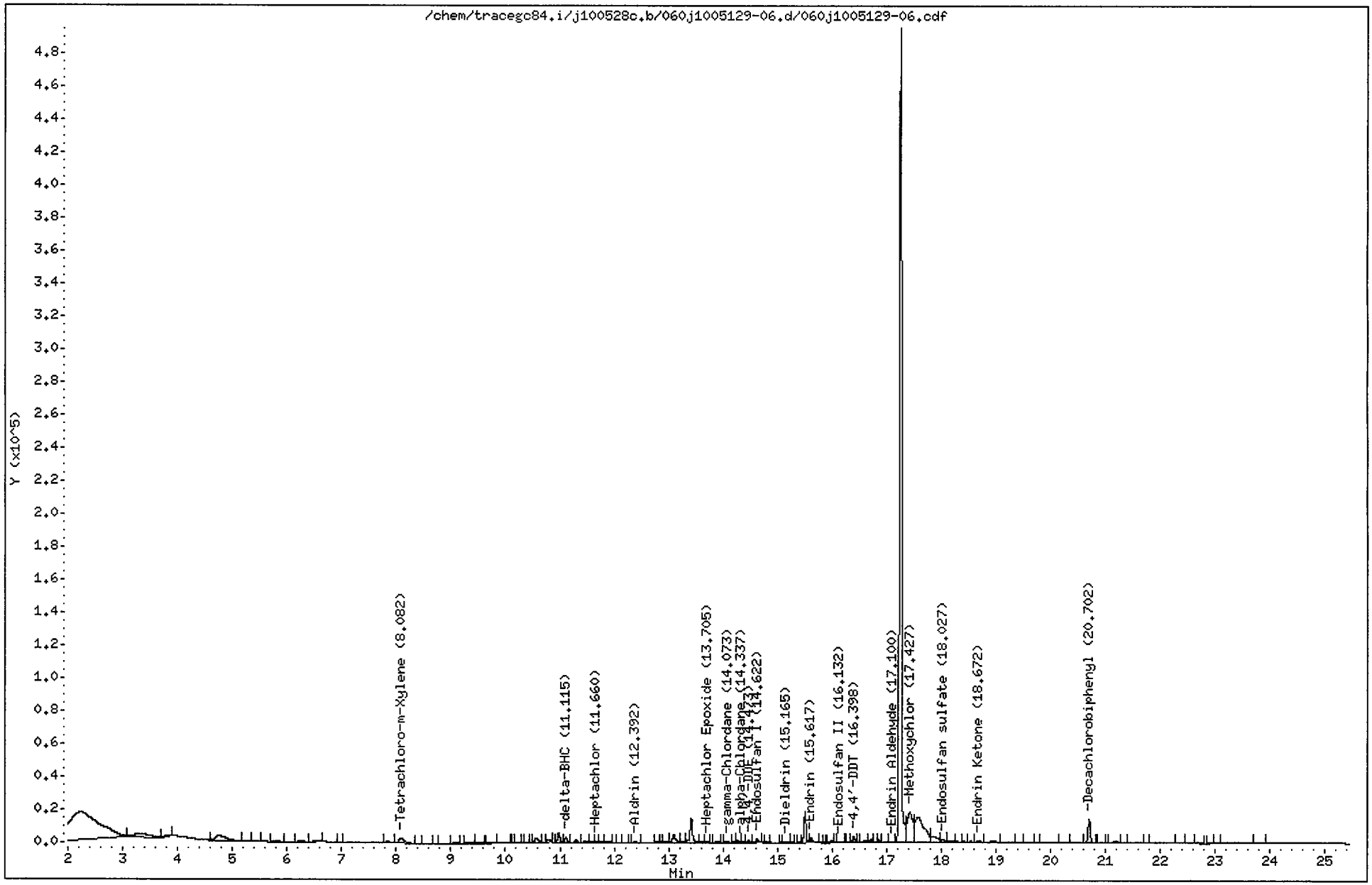
Sample Info: 1005129-06

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-06 Client Smp Id : SB53-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 21:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SB53-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58			59663								
1.82			40087								
2.25			664712								
3.33			47642								
3.84			4437								
4.76			40690								
5.41			467								
5.82			3247								
6.24			6672								
6.53			2978								
7.00			197								
7.84			3710								
8.08	8.01	8.15	22129	522758	Tetrachloro-m-Xylene	0.042331	8.930652		70.6	70 - 125	
8.57			1137								
8.94			858								
9.06			723								
9.33			2419								
9.49			3129								
9.77			1418								
10.12			125								
10.23			701								
10.42			137								
10.48			242								
10.58			12504								
10.70			365								
10.79			4535								
10.98			18600								
11.12	11.02	11.16	9934	689518	delta-BHC	0.014407	3.039489	2.151899			
11.30			6507								
11.47			3267								
11.58			2806								
11.66	11.55	11.69	1676	695465	Heptachlor	0.002410	0.508417	2.151899			J
11.77			2600								
11.86			5353								
12.00			880								
12.07			684								
12.20			1030								

CompuChem

Lab Smp Id : 1005129-06 Client Smp Id : SB53-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 21:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SB53-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.39	12.27 12.41	1812	636570	Aldrin	0.002847	0.600529	2.151899			J
12.78		1377								
12.86		265								
12.95		2234								
13.10		18434								
13.27		1838								
13.42		45395								
13.60		1144								
13.70	13.68 13.82	1809	593700	Heptachlor Epoxide	0.003045	0.642470	2.151899			J
13.90		1122								
14.07	13.97 14.11	680	594875	gamma-Chlordane	0.001141	0.240805	2.151899			J
14.23		1718								
14.29		4884								
14.34	14.27 14.41	1524	516712	alpha-Chlordane	0.002949	0.622240	2.151899			JMZ
14.47	14.45 14.59	3465	523741	4,4'-DDE	0.006614	1.395349	4.177215			J
14.62	14.57 14.71	5144	548162	Endosulfan I	0.009384	1.979763	2.151899			J
14.79		691								
15.04		218								
15.16	15.10 15.24	2400	515556	Dieldrin	0.004655	0.982103	4.177215			J
15.26		528								
15.34		142								
15.40		969								
15.50		47459								
15.62	15.61 15.75	6678	463071	Endrin	0.014421	3.042428	4.177215			J
15.85		131								
15.99		4108								
16.07		161								
16.13	16.09 16.23	2347	450326	Endosulfan II	0.005212	1.099531	4.177215			J
16.32		965								
16.40	16.35 16.49	9812	454781	4,4'-DDT	0.021573	4.551268	4.177215			
16.48		437								
16.61		4480								
16.71		4854								
16.78		1540								
16.86		4554								
16.93		2921								
17.10	17.00 17.14	2641	348470	Endrin Aldehyde	0.007579	1.598912	4.177215			J

6/3/10

CompuChem

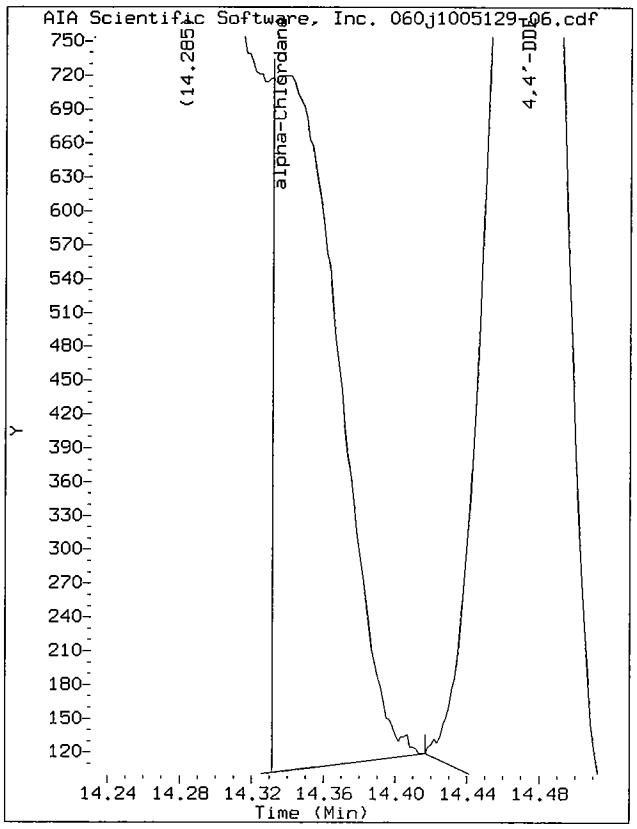
Lab Smp Id : 1005129-06 Client Smp Id : SB53-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 21:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SB53-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

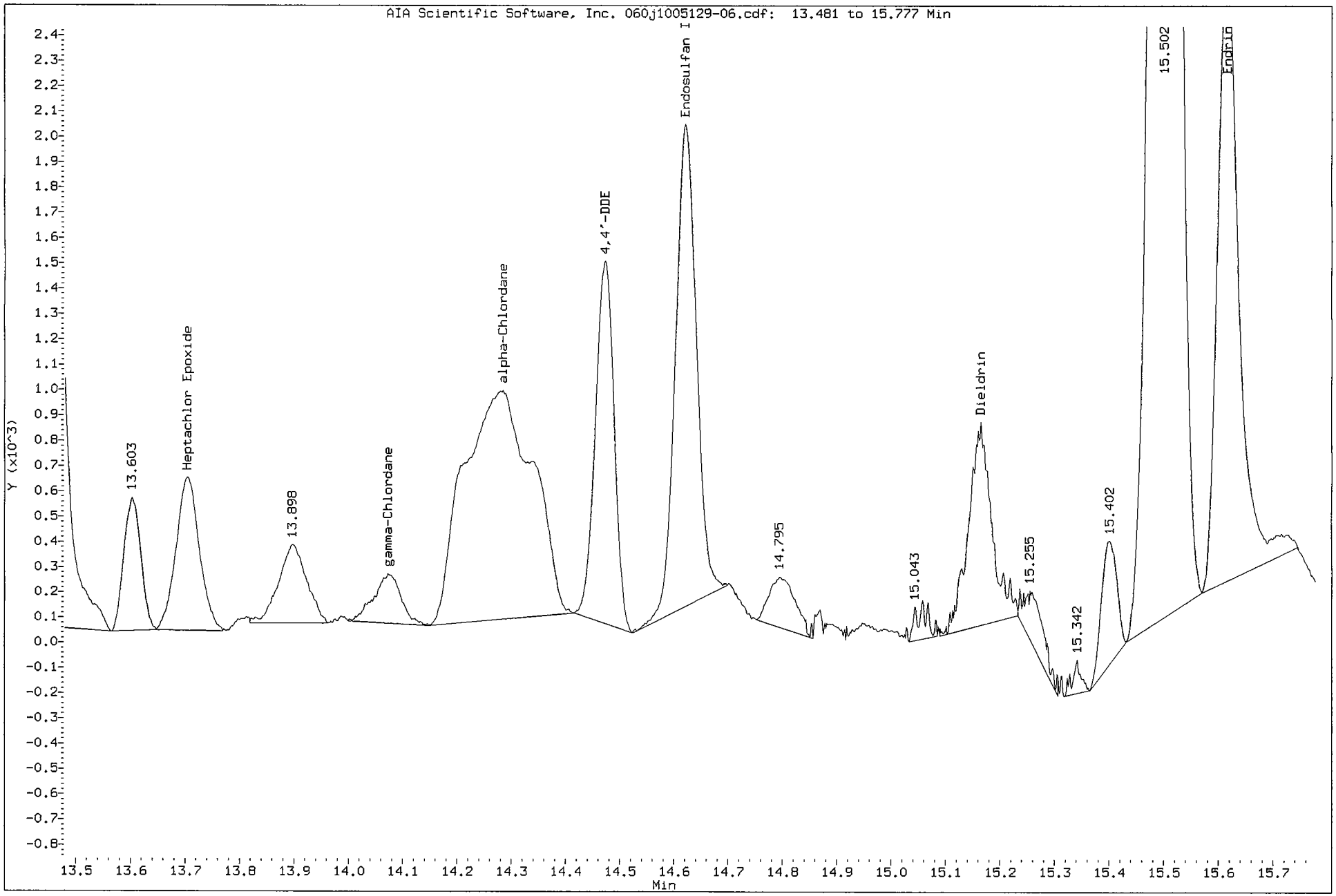
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.25		1436168								
17.43	17.37 17.51	137343	194359	Methoxychlor	0.706641	149.0803	21.51899			
17.57		185321								
17.84		31199								
18.03	17.93 18.07	7783	392055	Endosulfan sulfate	0.019849	4.187607	4.177215			
18.14		6026								
18.29		2382								
18.42		1920								
18.53		1698								
18.67	18.53 18.67	3079	457258	Endrin Ketone	0.006731	1.420134	4.177215			J
18.96		3540								
19.44		1153								
19.61		1473								
19.99		3231								
20.31		316								
20.70	20.63 20.77	40112	408350	Decachlorobiphenyl	0.098229	20.72351		81.9	55 - 130	
20.94		340								
21.17		3519								
21.32		527								
21.76		168								
22.37		548								
22.70		1601								
22.95		662								
23.04		364								
23.80		2861								

Manually Integrated Peaks



Start: 14.33 Stop: 14.42

Data File: /chem/tracegc84.i/j100528c.b/060j1005129-06.d/060j1005129-06.cdf
Injection Date: 29-MAY-2010 21:17
Instrument: tracegc84.i
Client Sample ID: SB53-7-8



Data File: /chem/tracegc84.i/j100528c_2C.b/060j1005129-06.d

Page 1

Date : 29-MAY-2010 21:17

Client ID: SB53-7-8

Instrument: tracegc84.i

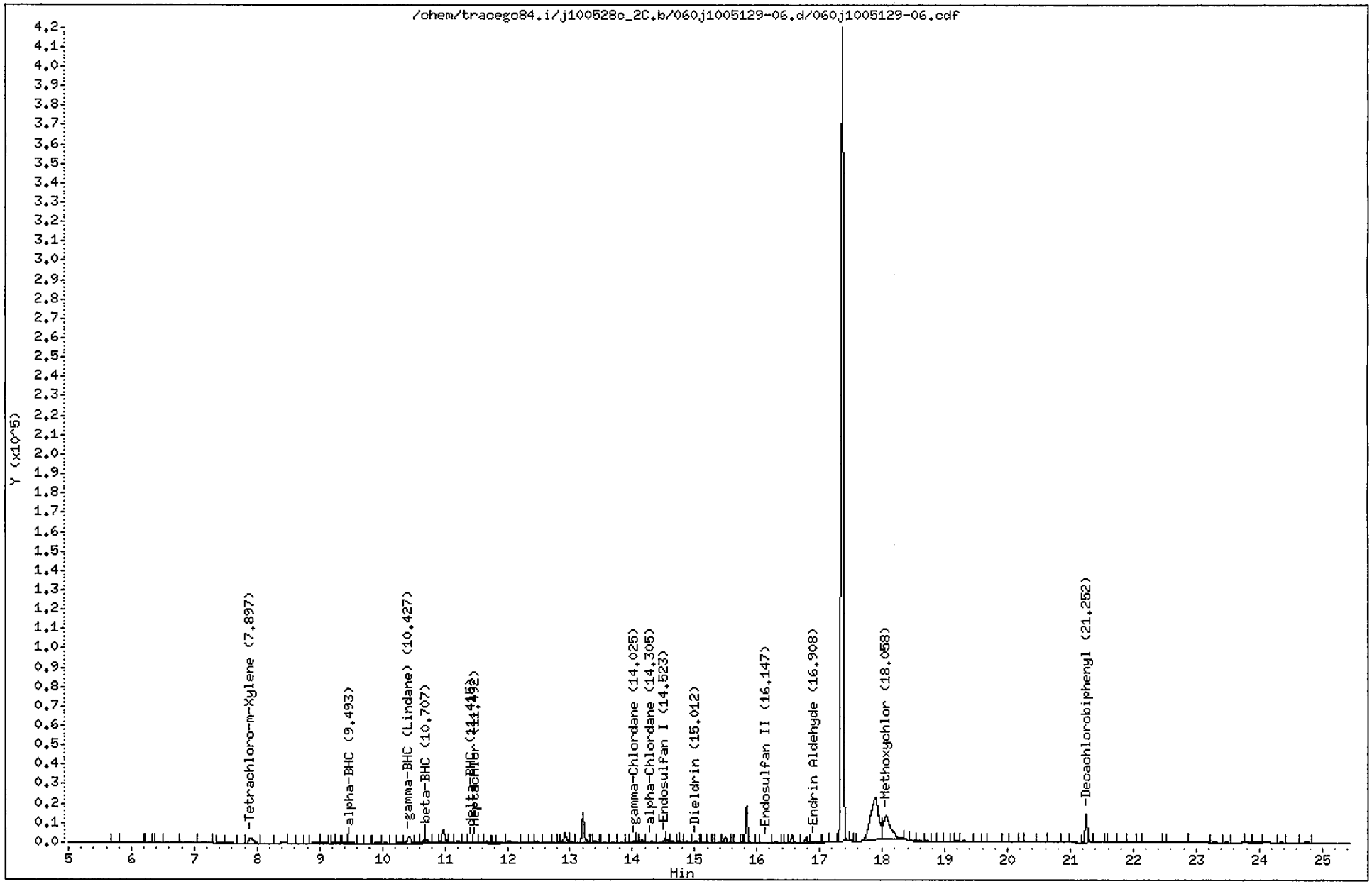
Sample Info: 1005129-06

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-06 Client Smp Id : SB53-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 21:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB53-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.04			660737								
2.85			50920								
3.14			96471								
4.30			3932								
4.74			123								
5.77			343								
5.92			6028								
6.30			229								
6.47			192								
6.88			3232								
7.10			1244								
7.40			284								
7.56			595								
7.90	7.82	7.96	15787	416798	Tetrachloro-m-Xylene	0.037877	7.990909		63.1*	70 - 125	R
8.16			1336								
8.40			1113								
8.69			455								
8.94			3181								
9.06			1143								
9.24			114								
9.28			354								
9.41			363								
9.49	9.48	9.62	727	607758	alpha-BHC	0.001196	0.252363	2.151899			J
9.76			229								
9.90			490								
10.05			555								
10.18			206								
10.28			637								
10.43	10.39	10.53	13996	585542	gamma-BHC (Lindane)	0.023903	5.042747	2.151899			
10.57			407								
10.67			4121								
10.71	10.63	10.77	5063	248610	beta-BHC	0.020365	4.296462	1.077215			
10.83			1543								
10.97			25892								
11.09			1575								
11.21			4412								
11.30			1018								

CompuChem

Lab Smp Id : 1005129-06 Client Smp Id : SB53-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 21:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB53-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.42	11.33 11.47	925	551235	delta-BHC	0.001676	0.353636	2.151899			J
11.49	11.45 11.59	1657	579497	Heptachlor	0.002858	0.602880	2.151899			J
11.58		1828								
11.66		1982								
11.79		251								
11.87		1305								
12.03		4702								
12.27		251								
12.40		201								
12.46		2186								
12.67		1746								
12.76		1773								
12.82		1481								
12.91		16746								
13.01		3143								
13.21		42124								
13.34		422								
13.41		2261								
13.52		1071								
13.71		283								
13.81		999								
13.92		128								
14.02	13.95 14.09	1824	513150	gamma-Chlordane	0.003553	0.749487	2.151899			JM
14.06		1713								
14.15		4273								
14.30	14.28 14.42	2415	446248	alpha-Chlordane	0.005412	1.141729	2.151899			J
14.52	14.39 14.53	5247	477982	Endosulfan I	0.010975	2.315464	2.151899			
14.56		3637								
14.62		2318								
14.75		669								
14.87		1454								
15.01	14.99 15.13	1512	461929	Dieldrin	0.003273	0.690555	4.177215			J
15.18		716								
15.21		1005								
15.30		140								
15.37		768								
15.49		6093								

2 6/3/10

CompuChem

Lab Smp Id : 1005129-06 Client Smp Id : SB53-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 21:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB53-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.63		130								
15.66		387								
15.77		543								
15.83		41672								
16.15	16.11 16.25	1365	404930	Endosulfan II	0.003371	0.711172	4.177215			J
16.30		982								
16.45		145								
16.57		9617								
16.78		7126								
16.91	16.83 16.97	1964	316985	Endrin Aldehyde	0.006196	1.307147	4.177215			J
17.15		395								
17.36		1129403								
17.49		677								
17.89		203147								
18.06	18.03 18.17	100363	182916	Methoxychlor	0.548679	115.7550	21.51899			
18.48		843								
18.58		770								
18.73		854								
18.82		131								
19.01		754								
19.11		442								
19.19		2023								
19.29		2775								
19.49		439								
19.63		211								
19.83		1486								
20.07		301								
20.25		314								
20.32		646								
20.78		975								
21.03		1313								
21.25	21.18 21.32	40285	406698	Decachlorobiphenyl	0.099054	20.89746		82.5	55 - 130	
21.51		260								
21.61		460								
21.98		353								
22.08		249								
22.50		132								

CompuChem

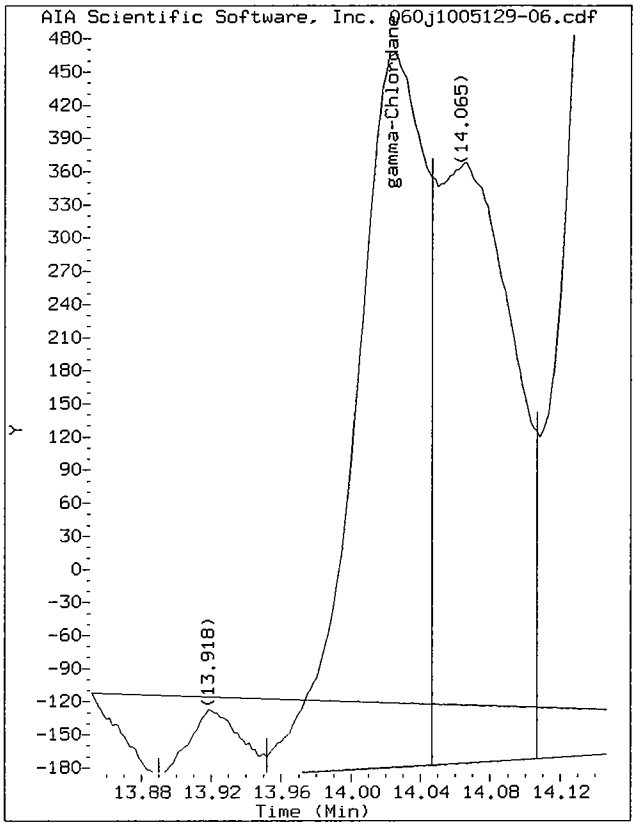
Lab Smp Id : 1005129-06 Client Smp Id : SB53-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 21:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB53-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

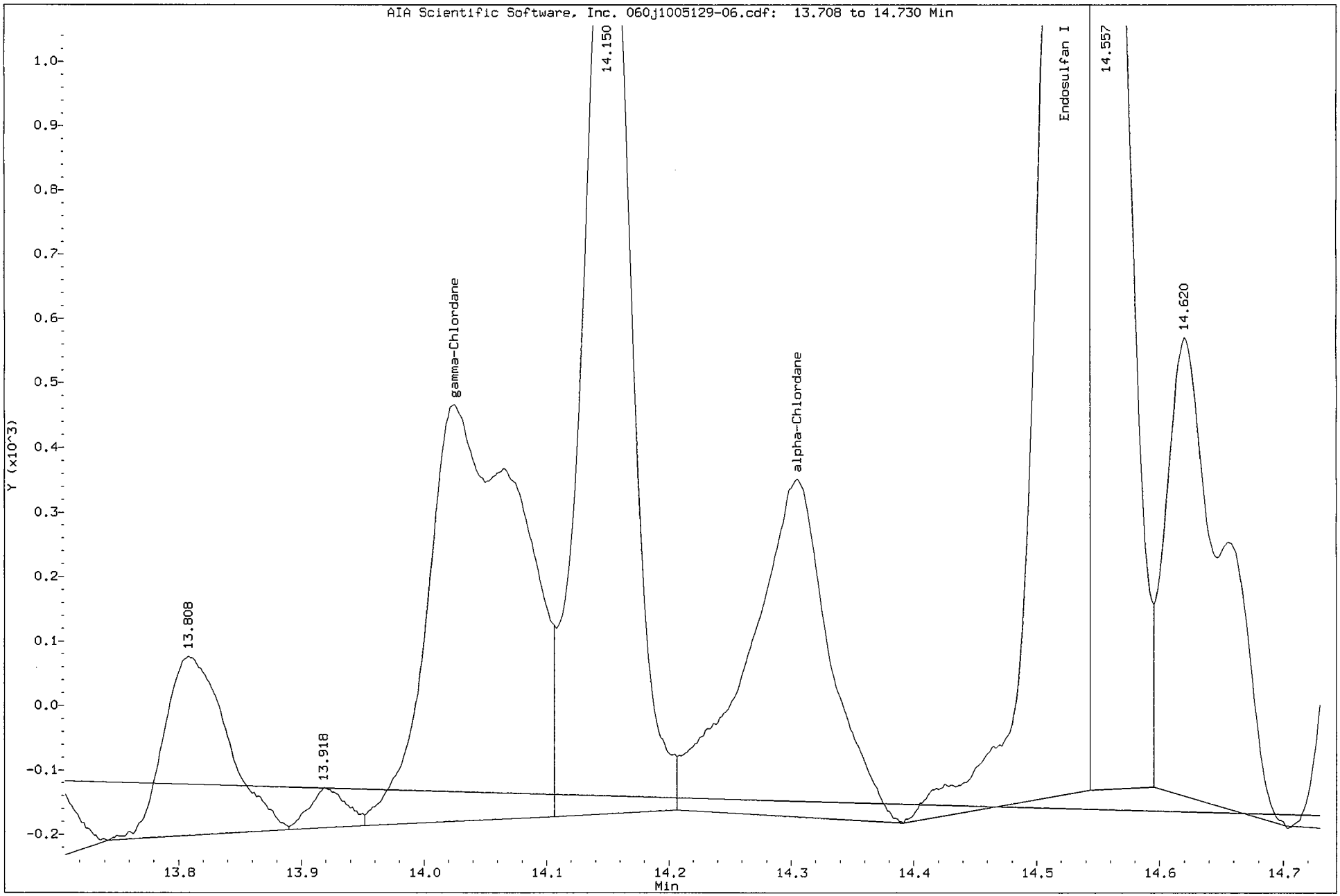
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.66		4377								
23.30		649								
23.48		451								
23.82		183								
23.96		402								
24.36		909								
24.75		655								

Manually Integrated Peaks



Start: 13.95 Stop: 14.05

Data File: /chem/tracegc84.i/j100528c_2C.b/060j1005129-06.d/060j1005129-06.cdf
Injection Date: 29-MAY-2010 21:17
Instrument: tracegc84.i
Client Sample ID: SB53-7-8



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB54-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.0	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	0.85	JP
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

Data File: /chem/tracegc84.i/j100528c.b/058j1005129-04.d

Date : 29-MAY-2010 20:20

Client ID: SB54-4-5

Instrument: tracegc84.i

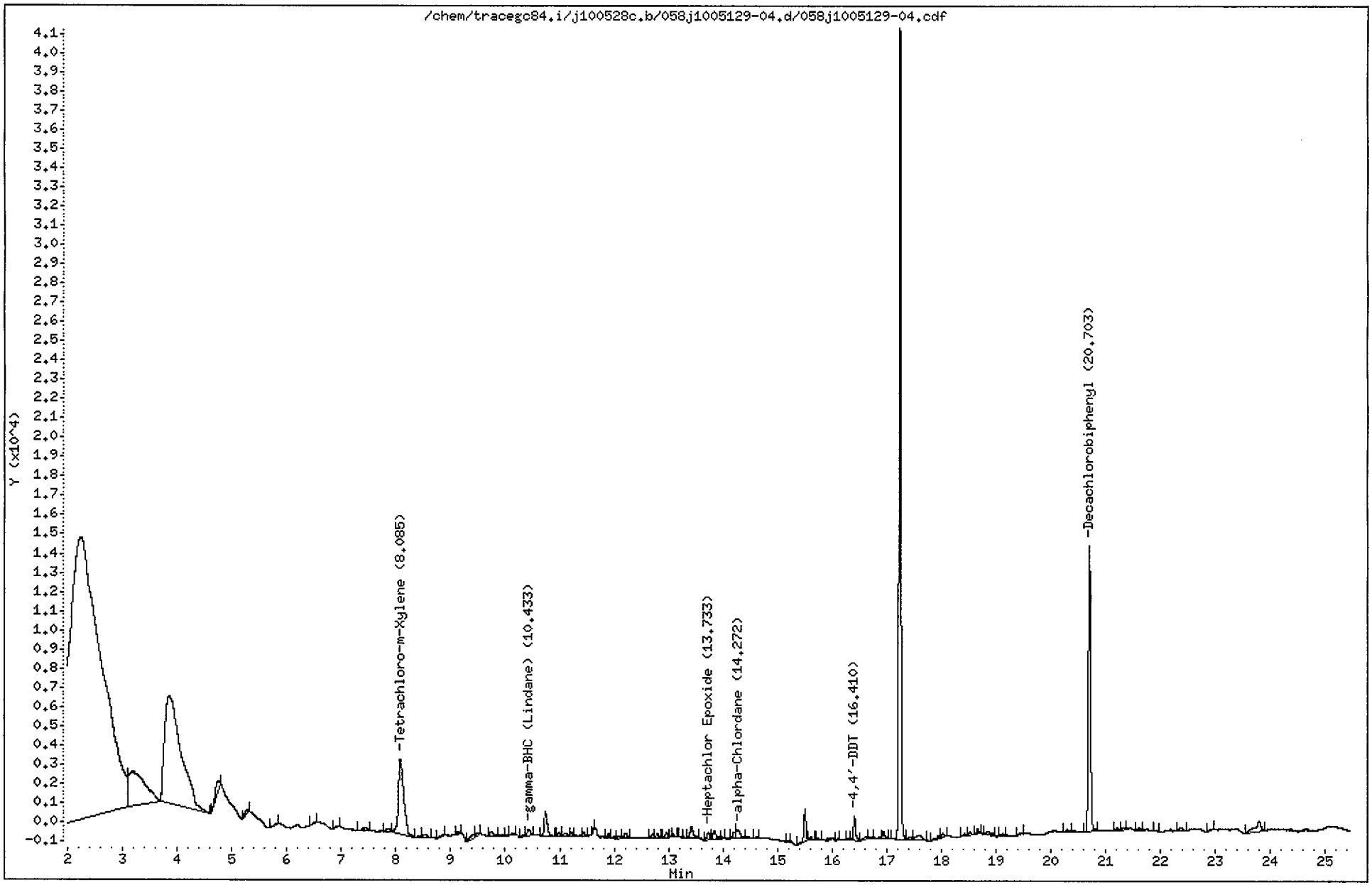
Sample Info: 1005129-04

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-04 Client Smp Id : SB54-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:20 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SB54-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58		38209								
1.75		11399								
1.83		17720								
2.25		600878								
3.20		37157								
3.86		118738								
4.75		3380								
5.27		979								
5.84		232								
6.52		121								
6.94		266								
7.43		1083								
7.84		818								
8.08	8.01 8.15	26338	522758	Tetrachloro-m-Xylene	0.050381	10.24002		84.0	70 - 125	
8.43		401								
8.53		993								
8.87		251								
9.14		276								
9.40		1041								
9.50		522								
9.75		1057								
9.91		287								
10.14		248								
10.36		472								
10.43	10.36 10.50	1586	729192	gamma-BHC (Lindane)	0.002175	0.442075	2.073171			J
10.74		5014								
10.99		631								
11.11		686								
11.22		598								
11.45		611								
11.63		229								
11.89		543								
12.00		275								
12.08		374								
12.21		888								
12.71		603								
12.80		661								

6/3/10

CompuChem

Lab Smp Id : 1005129-04 Client Smp Id : SB54-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:20 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SB54-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.96		668								
13.10		286								
13.22		138								
13.28		141								
13.42		2115								
13.73	13.68 13.82	1431	593700	Heptachlor Epoxide	0.002409	0.489558	2.073171			J
13.84		2055								
13.99		173								
14.21		802								
14.27	14.27 14.41	2438	516712	alpha-Chlordane	0.004718	0.959002	2.073171			J
14.62		163								
15.19		194								
15.50		4512								
15.61		329								
15.71		308								
16.10		163								
16.31		215								
16.41	16.35 16.49	3421	454781	4,4'-DDT	0.007522	1.528922	4.024390			J
16.62		597								
16.71		321								
16.94		1046								
17.13		232								
17.24		102156								
17.41		627								
17.59		2101								
17.95		751								
18.03		606								
18.42		326								
18.53		588								
18.67		737								
18.85		920								
19.13		374								
19.46		246								
20.30		410								
20.70	20.63 20.77	41485	408350	Decachlorobiphenyl	0.101589	20.64824		84.7	55 - 130	
21.20		333								
21.33		316								

CompuChem

Lab Smp Id : 1005129-04 Client Smp Id : SB54-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:20 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SB54-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF	Dilution Factor: 1.0	Uf	GPC Unit Factor: 1
Vt	Final Volume: 5000(ul)	Vi	Injection Volume: 1(ul)
Ws	Sample Weight: 30.0(g)	M	Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.61		415								
21.93		172								
22.38		587								
22.93		202								
23.80		3901								

Data File: /chem/tracegc84.i/j100528c_2C.b/058j1005129-04.d

Date : 29-MAY-2010 20:20

Client ID: SB54-4-5

Instrument: tracegc84.i

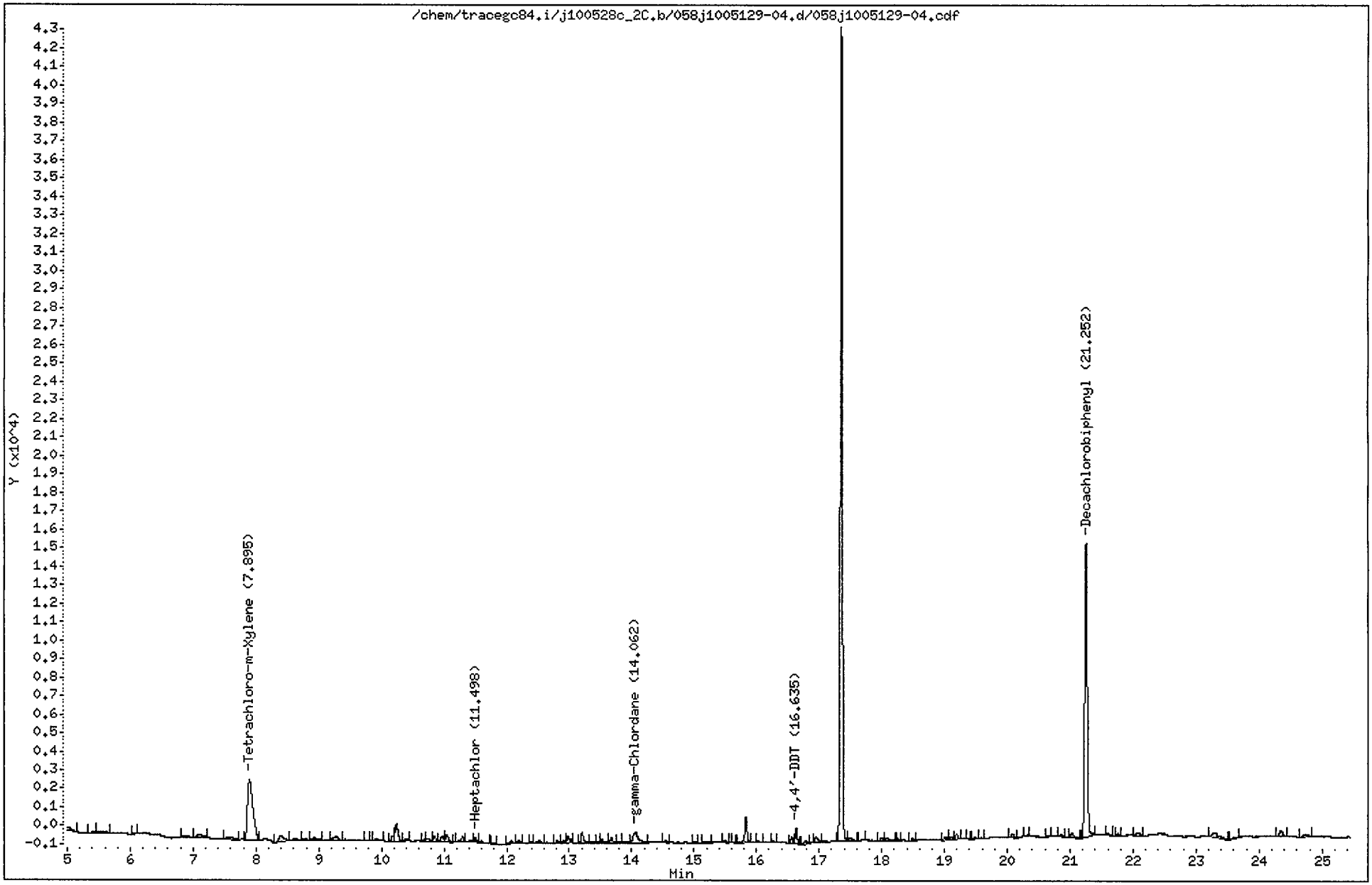
Sample Info: 1005129-04

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-04 Client Smp Id : SB54-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:20 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB54-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.04		40496								
3.20		78963								
4.27		638								
4.99		1867								
5.44		420								
5.57		1158								
6.09		169								
6.88		655								
7.08		1095								
7.58		952								
7.90	7.82 7.96	19231	416798	Tetrachloro-m-Xylene	0.046138	9.377543		76.9	70 - 125	
8.40		1731								
8.77		203								
8.93		585								
9.28		1050								
9.76		170								
9.91		268								
10.18		705								
10.24		3086								
10.38		251								
10.69		197								
10.74		698								
10.85		828								
10.97		1077								
11.04		1287								
11.30		1039								
11.42		388								
11.50	11.45 11.59	651	579497	Heptachlor	0.001122	0.227980	2.073171			J
11.60		350								
11.78		160								
12.07		570								
12.20		448								
12.41		93								
12.51		450								
12.81		245								
12.91		303								
12.98		1104								

CompuChem

Lab Smp Id : 1005129-04 Client Smp Id : SB54-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:20 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB54-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.20		1724								
13.36		307								
13.47		133								
13.52		685								
13.67		799								
13.81		163								
13.87		351								
14.06	13.95 14.09	3192	513150	gamma-Chlordane	0.006218	1.263914	2.073171			J
14.54		288								
15.01		133								
15.17		308								
15.50		265								
15.63		126								
15.83		3528								
16.04		215								
16.26		100								
16.57		766								
16.64	16.57 16.71	1707	405929	4,4'-DDT	0.004203	0.854209	4.024390			J
16.79		527								
16.89		194								
16.95		1007								
17.35		95459								
17.49		473								
17.70		106								
18.00		335								
18.09		717								
18.26		201								
18.49		325								
19.01		650								
19.12		547								
19.19		700								
19.37		118								
19.49		311								
19.58		128								
20.09		573								
20.33		103								
20.66		163								

CompuChem

Lab Smp Id : 1005129-04 Client Smp Id : SB54-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:20 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB54-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.86		233								
21.03		771								
21.25	21.18 21.32	43641	406698	Decachlorobiphenyl	0.107306	21.81012		89.4	55 - 130	
21.61		212								
21.76		251								
22.09		528								
23.29		1800								
23.64		267								
24.35		1148								
24.74		759								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB55-00-2.5-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	0.67	J
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	0.25	JP
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

Data File: /chem/tracegc84.i/j100528c.b/056j1005129-02.d

Date : 29-MAY-2010 19:22

Client ID: SB55-00-2.5-3

Instrument: tracegc84.i

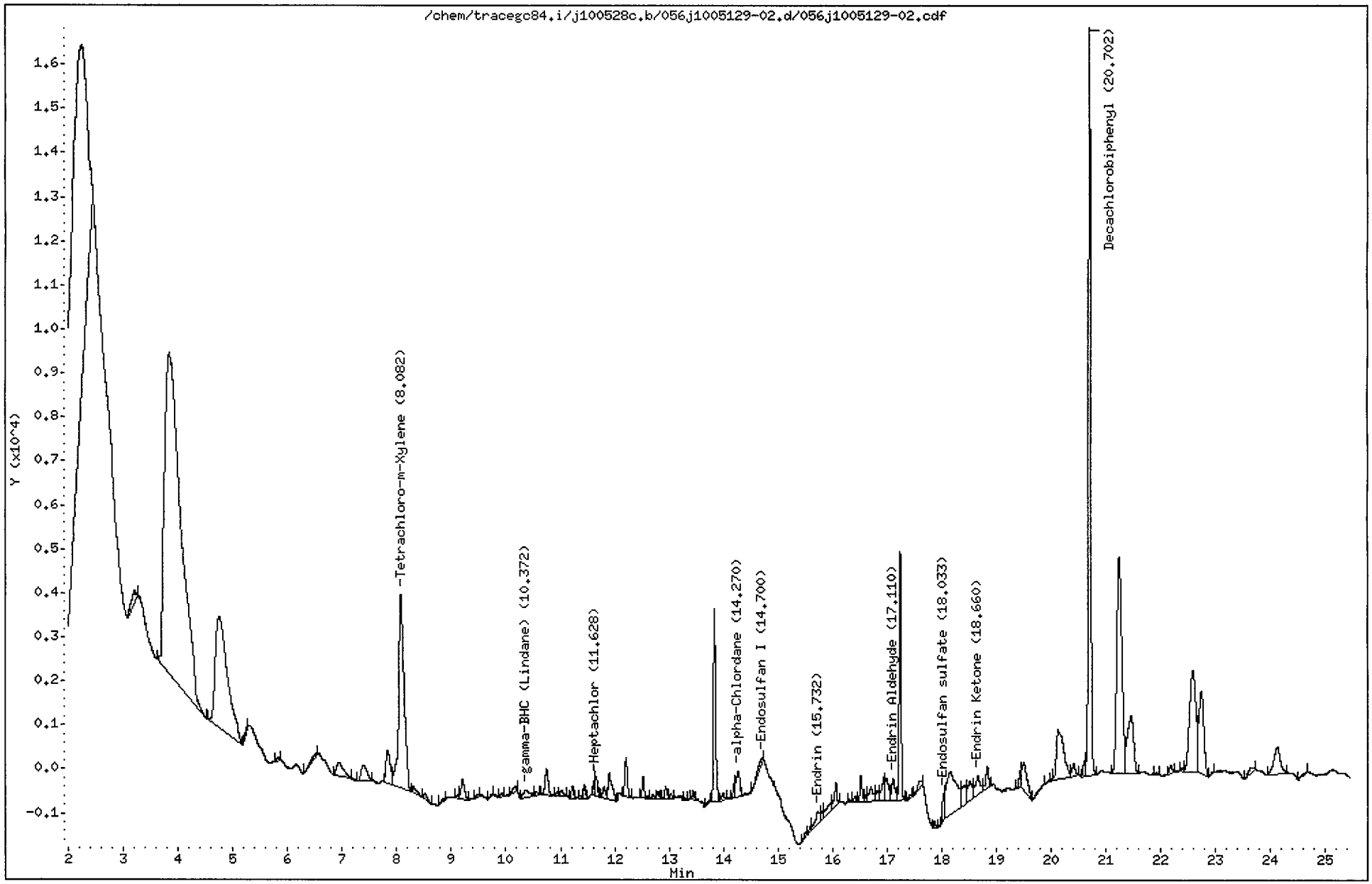
Sample Info: 1005129-02

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-02 Client Smp Id : SB55-00-2.5-3
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:22 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SB55-00-2.5-3

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.59		10689								
2.24		137105								
3.21		1724								
3.85		150566								
4.76		39394								
5.26		172								
5.81		220								
6.52		626								
6.94		2688								
7.39		2619								
7.83		4266								
8.08	8.01 8.15	30457	522758	Tetrachloro-m-Xylene	0.058260	12.13756		97.1	70 - 125	
8.31		857								
8.51		637								
8.86		207								
9.14		223								
9.21		1902								
9.49		129								
9.74		160								
9.92		189								
10.14		479								
10.37	10.36 10.50	1375	729192	gamma-BHC (Lindane)	0.001886	0.392843	2.125000			J
10.56		240								
10.75		2471								
10.94		216								
11.02		470								
11.22		800								
11.37		176								
11.45		874								
11.63	11.55 11.69	823	695465	Heptachlor	0.001182	0.246238	2.125000			JM2
11.66		1113								
11.80		903								
11.90		3025								
12.21		2925								
12.52		1391								
12.71		246								
12.80		424								

CompuChem

Lab Smp Id : 1005129-02 Client Smp Id : SB55-00-2.5-3
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:22 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SB55-00-2.5-3

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.94		840								
13.03		248								
13.28		195								
13.45		486								
13.74		199								
13.84		12236								
13.99		541								
14.21		794								
14.27	14.27 14.41	2755	516712	alpha-Chlordane	0.005332	1.110789	2.125000			J
14.70	14.57 14.71	1121	548162	Endosulfan I	0.002045	0.426045	2.125000			J
15.51		253								
15.59		339								
15.73	15.61 15.75	1628	463071	Endrin	0.003513	0.731979	4.125000			J
15.83		587								
15.98		1490								
16.06		1730								
16.32		135								
16.41		440								
16.52		1724								
16.64		434								
16.71		1735								
16.82		809								
16.94		2340								
16.98		2136								
17.11	17.00 17.14	2119	348470	Endrin Aldehyde	0.006081	1.266847	4.125000			J
17.24		13848								
17.43		237								
17.60		783								
17.87		327								
18.03	17.93 18.07	1420	392055	Endosulfan sulfate	0.003622	0.754571	4.125000			J
18.17		13164								
18.42		2509								
18.52		2444								
18.66	18.53 18.67	2822	457258	Endrin Ketone	0.006169	1.285290	4.125000			J
18.83		1827								
19.44		1078								
19.50		4046								

CompuChem

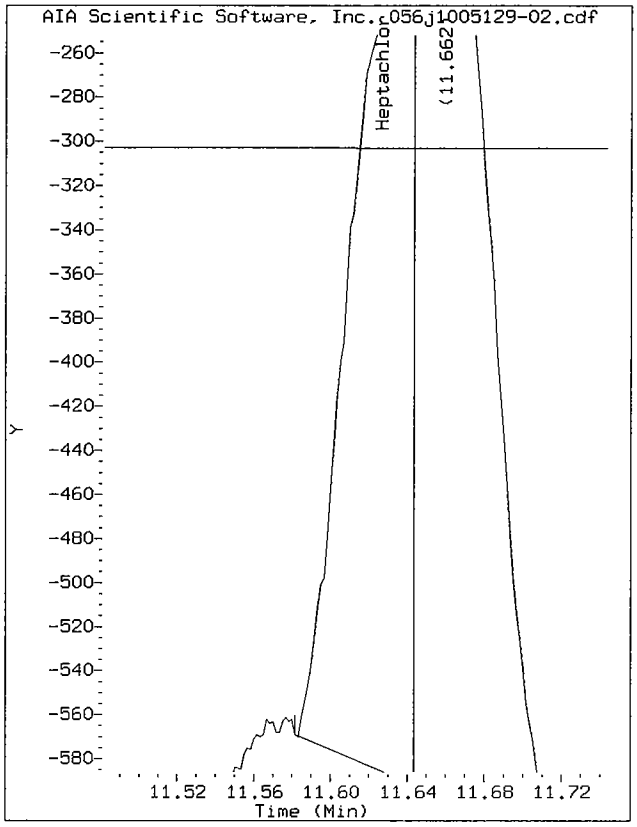
Lab Smp Id : 1005129-02 Client Smp Id : SB55-00-2.5-3
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:22 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SB55-00-2.5-3

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

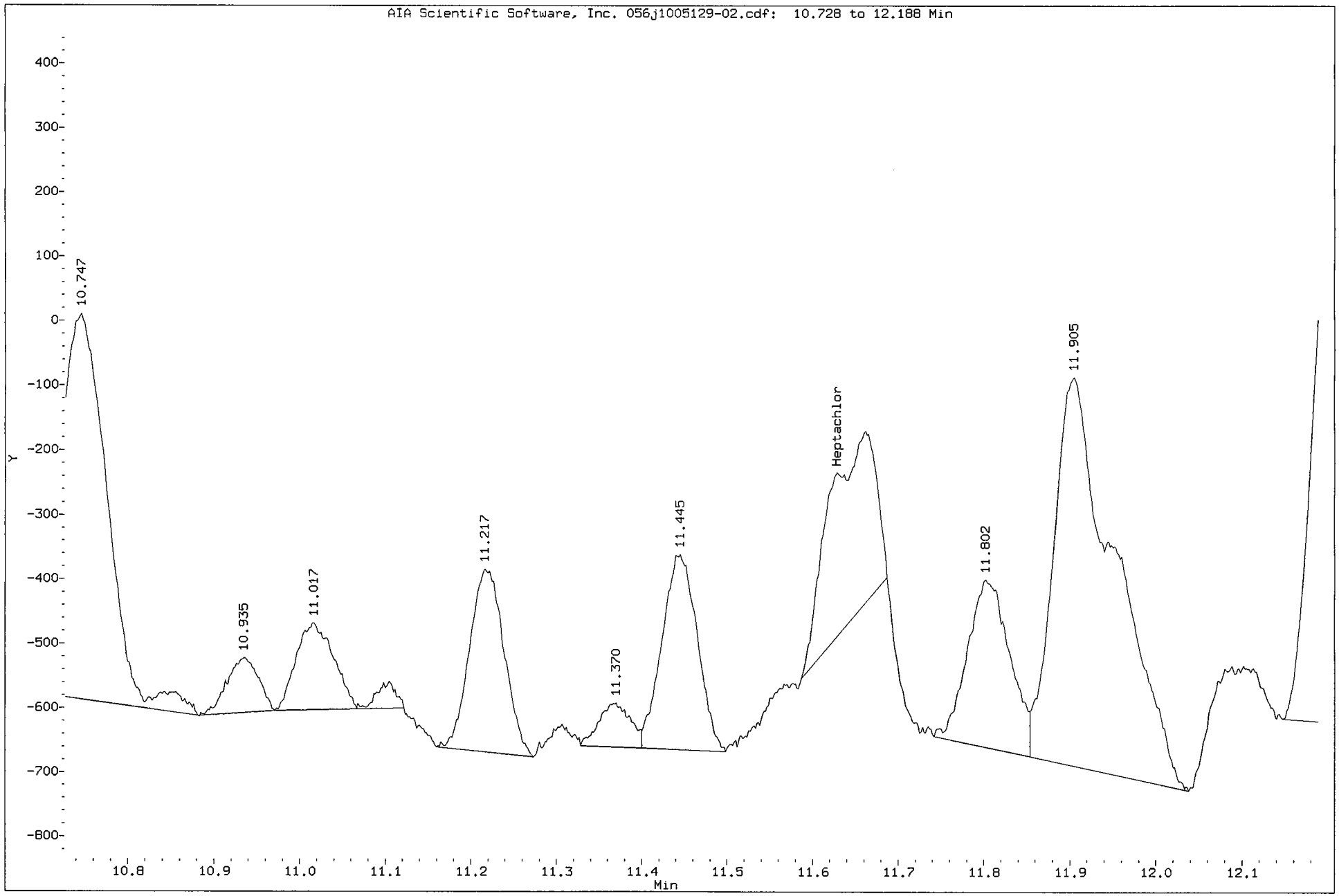
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.87		397								
20.02		183								
20.13		10314								
20.41		1184								
20.62		1208								
20.70	20.63 20.77	47808	408350	Decachlorobiphenyl	0.117074	24.39033		97.6	55 - 130	
21.24		32414								
21.46		10449								
21.92		136								
22.18		603								
22.39		267								
22.58		18757								
22.74		11670								
22.95		166								
23.67		834								
24.12		5168								
24.65		336								

Manually Integrated Peaks



Start: 11.58 Stop: 11.64

Data File: /chem/tracegc84.i/j100528c.b/056j1005129-02.d/056j1005129-02.cdf
Injection Date: 29-MAY-2010 19:22
Instrument: tracegc84.i
Client Sample ID: SB55-00-2.5-3



Data File: /chem/tracegc84.i/j100528c_2C.b/056j1005129-02.d

Page 1

Date : 29-MAY-2010 19:22

Client ID: SB55-00-2.5-3

Instrument: tracegc84.i

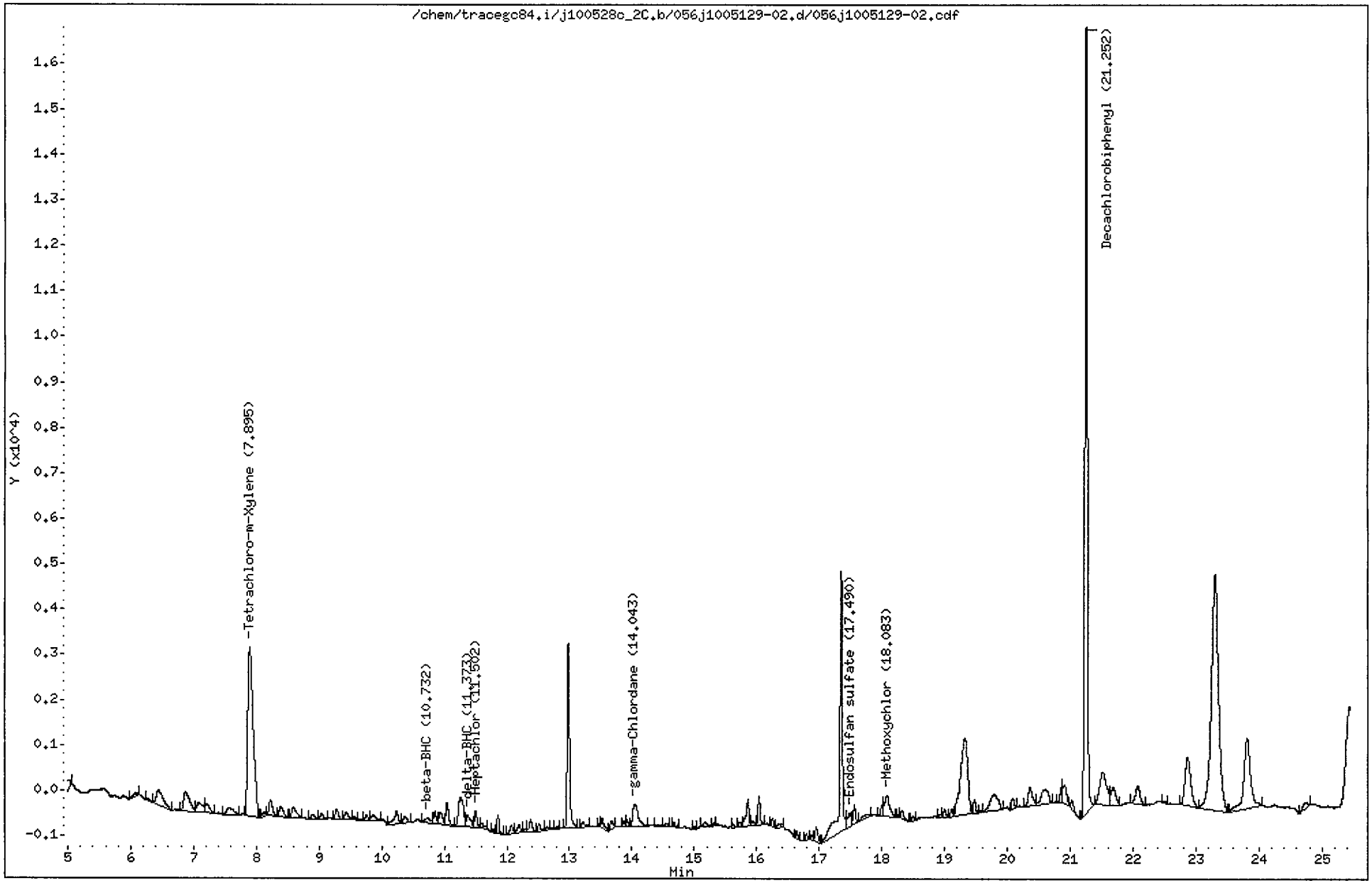
Sample Info: 1005129-02

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-02 Client Smp Id : SB55-00-2.5-3
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:22 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB55-00-2.5-3

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.05		43243								
2.84		839								
3.21		104527								
4.28		2867								
4.99		735								
6.08		313								
6.26		228								
6.44		2574								
6.87		2863								
7.09		1403								
7.21		1045								
7.57		1180								
7.90	7.82 7.96	22306	416798	Tetrachloro-m-Xylene	0.053518	11.14950		89.2	70 - 125	
8.12		362								
8.22		1405								
8.39		1041								
8.59		1224								
8.89		443								
9.03		465								
9.28		726								
9.44		695								
9.56		230								
9.76		379								
9.86		546								
10.24		1199								
10.37		602								
10.73	10.63 10.77	624	248610	beta-BHC	0.002510	0.522907	1.063750			J
10.85		812								
10.94		1082								
11.04		1529								
11.25		3618								
11.37	11.33 11.47	1154	551235	delta-BHC	0.002092	0.435764	2.125000			J
11.50	11.45 11.59	1067	579497	Heptachlor	0.001840	0.383234	2.125000			J
11.60		409								
11.78		159								
11.86		953								
12.07		564								

6/2/10

CompuChem

Lab Smp Id : 1005129-02 Client Smp Id : SB55-00-2.5-3
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:22 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB55-00-2.5-3

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.20		638								
12.30		228								
12.38		864								
12.51		436								
12.64		167								
12.80		147								
12.98		10431								
13.22		396								
13.47		90								
13.52		748								
13.68		551								
13.87		244								
13.92		327								
14.04	13.95 14.09	2952	513150	gamma-Chlordane	0.005753	1.198480	2.125000			J
14.40		139								
14.56		199								
14.68		258								
15.01		123								
15.17		378								
15.32		128								
15.63		164								
15.74		300								
15.86		1951								
15.94		276								
16.04		1397								
16.25		448								
16.35		471								
16.64		358								
16.80		310								
16.89		290								
16.95		991								
17.35		17151								
17.49	17.42 17.56	1181	366674	Endosulfan sulfate	0.003221	0.671010	4.125000			J
17.56		1105								
17.78		521								
18.00		555								
18.08	18.03 18.17	2697	182916	Methoxychlor	0.014739	3.070630	21.25000			J

CompuChem

Lab Smp Id : 1005129-02 Client Smp Id : SB55-00-2.5-3
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:22 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SB55-00-2.5-3

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.26		92								
18.32		535								
18.50		262								
18.93		141								
19.00		453								
19.12		404								
19.32		13436								
19.48		737								
19.79		3186								
20.09		636								
20.36		1972								
20.61		2512								
20.86		821								
20.91		1662								
21.03		586								
21.25	21.18 21.32	47378	406698	Decachlorobiphenyl	0.116494	24.26968		97.1	55 - 130	
21.52		5738								
21.69		2125								
22.08		1977								
22.50		130								
22.87		6816								
23.30		40347								
23.81		11399								
24.76		687								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB56-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.0	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

Data File: /chem/tracegc84.i/j100528d.b/068j1005129-10.d

Date : 30-MAY-2010 01:09

Client ID: SB56-3-4

Instrument: tracegc84.i

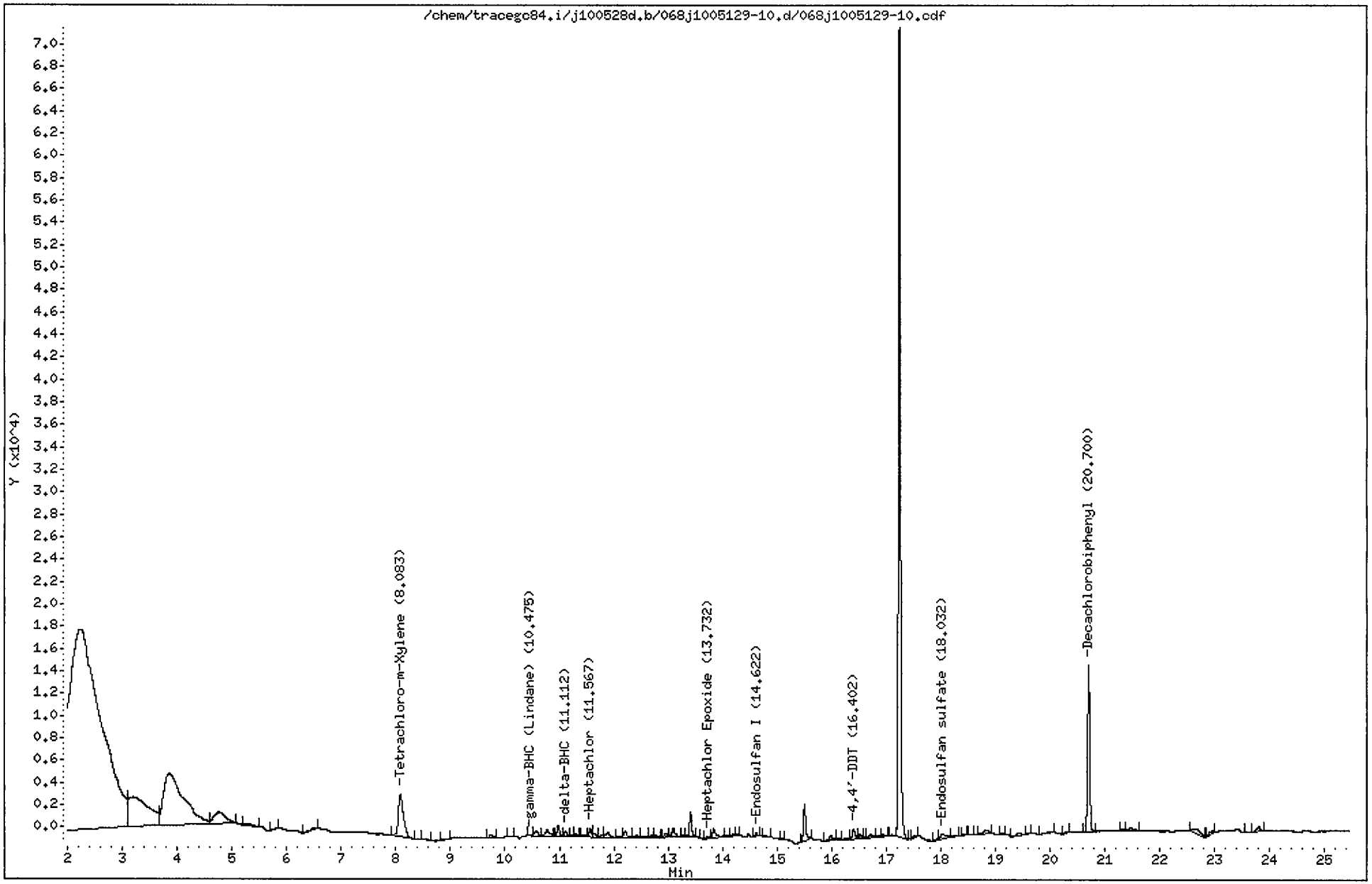
Sample Info: 1005129-10

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-10 Client Smp Id : SB56-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:09 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SB56-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57		158416								
2.24		760153								
3.21		71049								
3.85		117859								
4.77		14311								
5.27		1876								
5.84		156								
6.53		924								
8.08	8.01 8.15	24826	522758	Tetrachloro-m-Xylene	0.047490	9.652535		79.2	70 - 125	
8.52		703								
8.97		227								
9.74		1294								
10.13		151								
10.47		317								
10.57		1992								
10.77		3046								
10.98		3061								
11.11	11.02 11.16	1435	689518	delta-BHC	0.002080	0.422706	2.073171			J
11.23		568								
11.30		671								
11.45		748								
11.57	11.55 11.69	2215	695465	Heptachlor	0.003183	0.647049	2.073171			JM2
11.62		1751								
11.80		1125								
11.90		3039								
12.08		1037								
12.21		3029								
12.43		1321								
12.52		979								
12.70		769								
12.77		562								
12.96		1271								
13.09		3305								
13.27		219								
13.41		6556								
13.60		229								
13.73	13.68 13.82	1067	593700	Heptachlor Epoxide	0.001797	0.365285	2.073171			J

CompuChem

Lab Smp Id : 1005129-10 Client Smp Id : SB56-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:09 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SB56-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.84		3899								
14.07		502								
14.20		450								
14.27		373								
14.62	14.57 14.71	736	548162	Endosulfan I	0.001343	0.272900	2.073171			J
14.77		371								
15.11		186								
15.50		9433								
15.98		2440								
16.12		733								
16.30		641								
16.40	16.35 16.49	3027	454781	4,4'-DDT	0.006656	1.352835	4.024390			J
16.52		977								
16.61		470								
16.71		1307								
16.86		371								
16.94		709								
17.11		392								
17.24		184624								
17.56		311								
17.96		445								
18.03	17.93 18.07	3126	392055	Endosulfan sulfate	0.007973	1.620604	4.024390			J
18.29		430								
18.42		163								
18.55		178								
18.84		1828								
19.13		174								
19.43		1556								
19.61		205								
20.00		1186								
20.30		469								
20.70	20.63 20.77	40997	408350	Decachlorobiphenyl	0.100394	20.40534		83.7	55 - 130	
21.33		558								
21.46		1923								
22.62		3280								
22.97		999								
23.63		232								

CompuChem

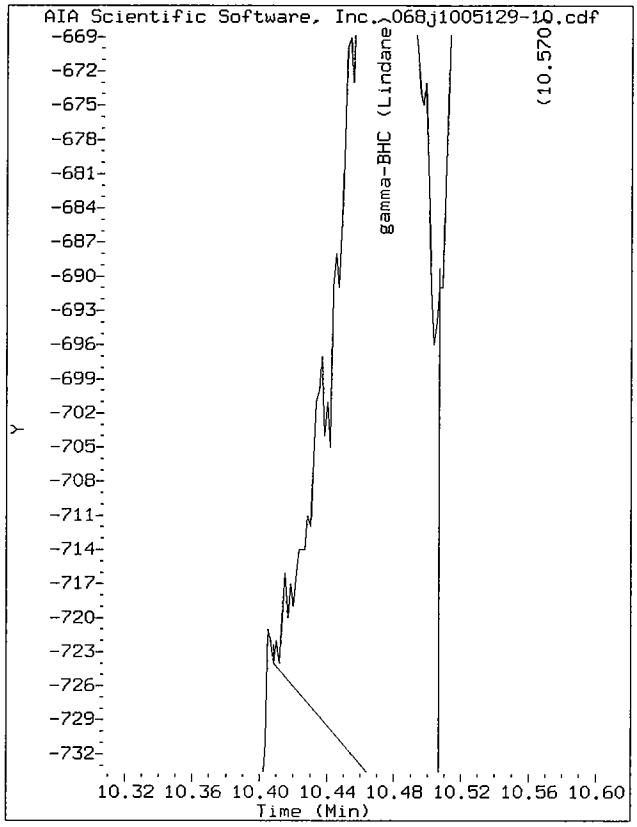
Lab Smp Id : 1005129-10 Client Smp Id : SB56-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:09 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SB56-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

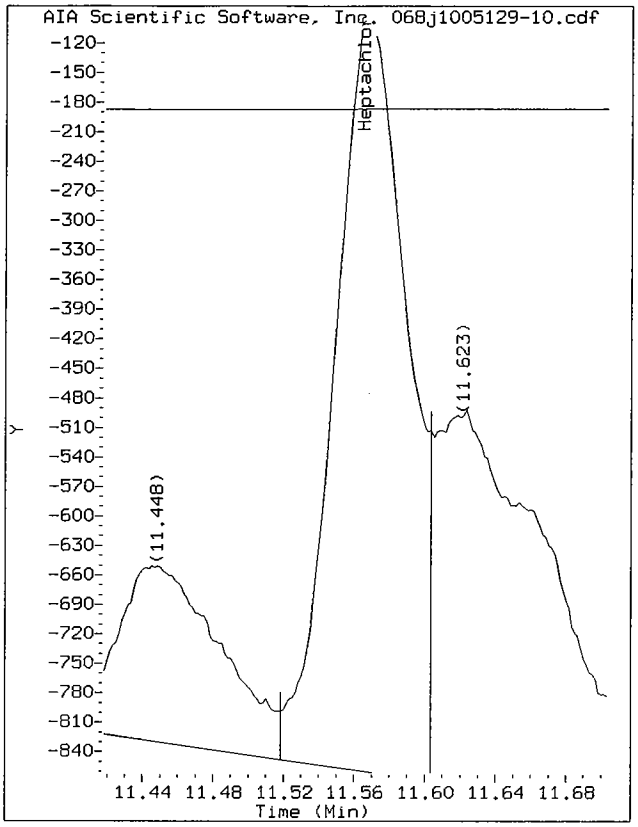
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.79		2039								

Manually Integrated Peaks

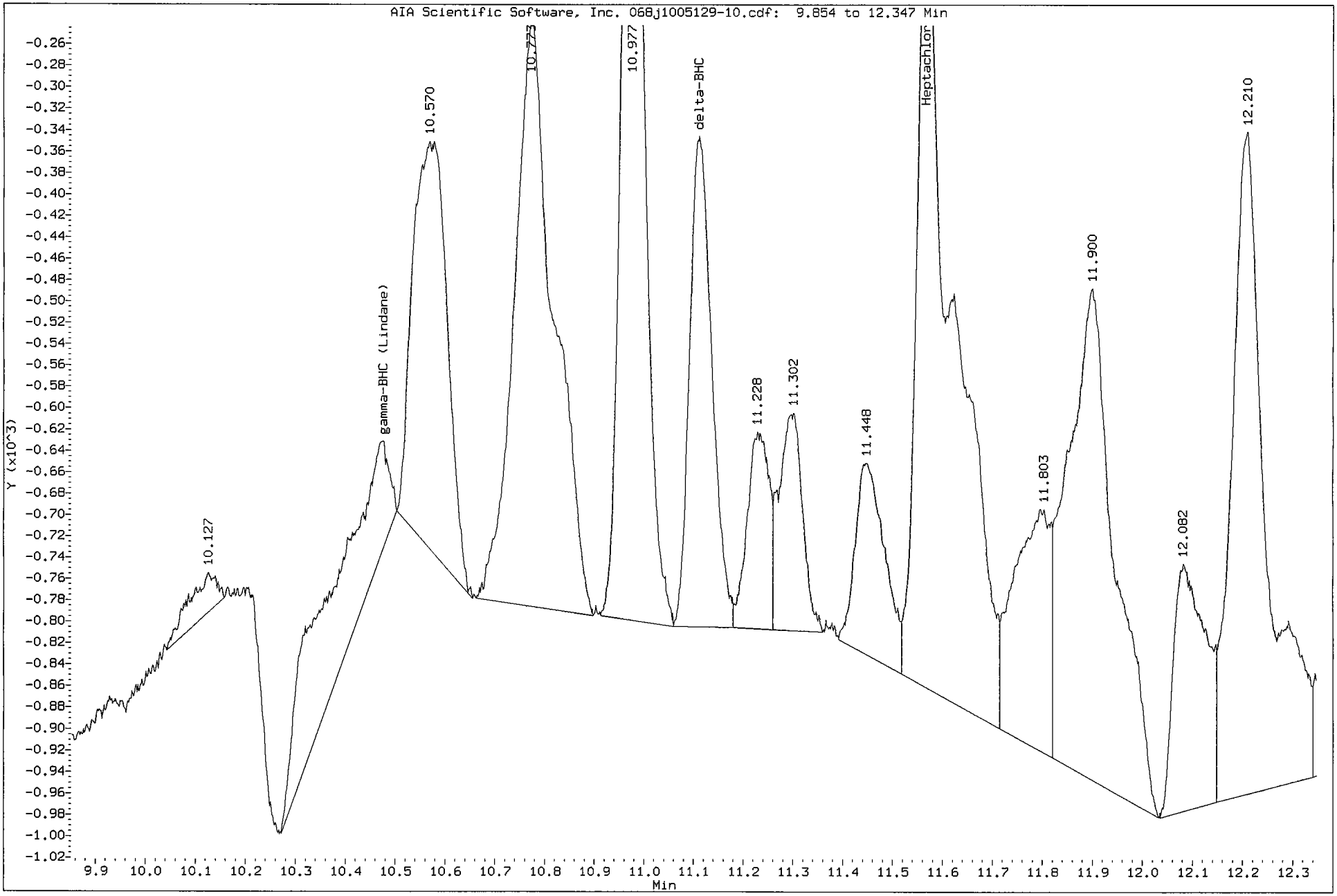


Start: 10.41 Stop: 10.51



Start: 11.52 Stop: 11.60

Data File: /chem/tracegc84.i/j100528d.b/068j1005129-10.d/068j1005129-10.cdf
Injection Date: 30-MAY-2010 01:09
Instrument: tracegc84.i
Client Sample ID: SB56-3-4



Data File: /chem/tracegc84.i/j100528d_2C.b/068j1005129-10.d

Date : 30-MAY-2010 01:09

Client ID: SB56-3-4

Instrument: tracegc84.i

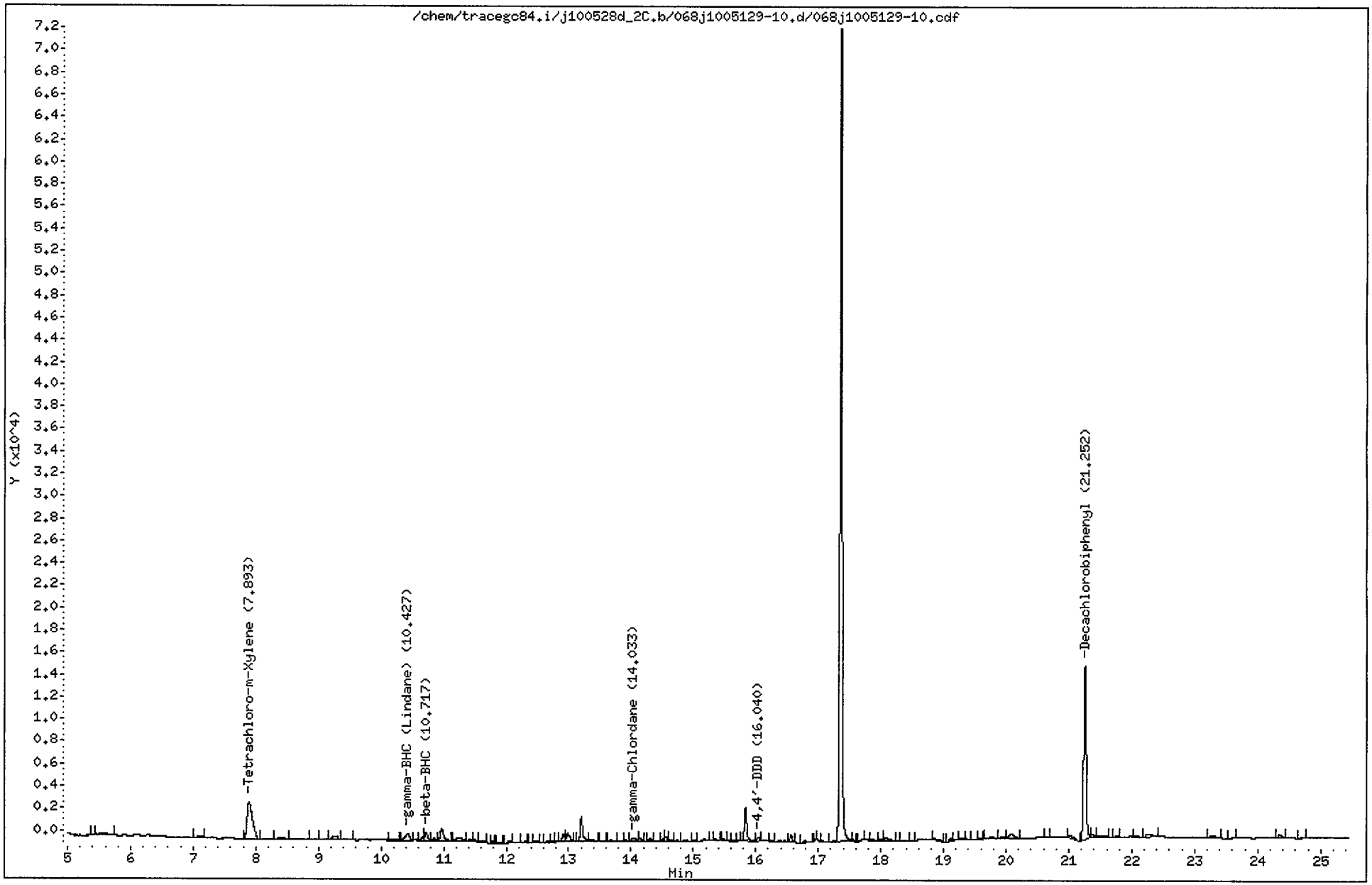
Sample Info: 1005129-10

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-10 Client Smp Id : SB56-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:09 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SB56-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.04		710704								
3.20		84998								
5.43		173								
5.56		1546								
7.09		417								
7.89	7.82 7.96	19515	416798	Tetrachloro-m-Xylene	0.046819	9.516036		78.0	70 - 125	
8.15		372								
8.40		1045								
8.91		349								
9.28		1671								
9.47		500								
10.19		292								
10.43	10.39 10.53	2574	585542	gamma-BHC (Lindane)	0.004396	0.893480	2.073171			J
10.67		705								
10.72	10.63 10.77	2324	248610	beta-BHC	0.009348	1.899995	1.037805			
10.85		533								
10.96		4115								
11.25		2286								
11.43		510								
11.50		421								
11.59		662								
11.78		438								
11.87		406								
12.03		558								
12.30		279								
12.39		121								
12.46		300								
12.66		310								
12.76		161								
12.81		217								
12.91		1883								
12.98		2519								
13.20		6043								
13.37		736								
13.52		202								
13.68		283								
13.92		141								

CompuChem

Lab Smp Id : 1005129-10 Client Smp Id : SB56-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:09 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SB56-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.03	13.95 14.09	1262	513150	gamma-Chlordane	0.002457	0.499466	2.073171			J
14.15		537								
14.31		370								
14.52		465								
14.56		798								
14.62		340								
14.74		263								
14.86		534								
15.01		236								
15.18		483								
15.36		277								
15.49		313								
15.64		145								
15.84		7868								
16.04	15.91 16.05	754	340626	4,4'-DDD	0.002214	0.449913	4.024390			J
16.25		225								
16.57		1363								
16.79		1034								
16.95		160								
17.07		307								
17.35		176264								
17.56		203								
17.71		150								
17.85		128								
18.00		356								
18.09		1248								
18.26		138								
18.51		96								
18.85		1103								
19.12		657								
19.28		228								
19.51		227								
19.58		150								
19.75		935								
19.94		600								
20.09		2516								
20.66		167								

CompuChem

Lab Smp Id : 1005129-10 Client Smp Id : SB56-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:09 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SB56-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.04		1448								
21.25	21.18 21.32	42584	406698	Decachlorobiphenyl	0.104704	21.28137		87.3	55 - 130	
21.37		922								
21.52		1009								
21.76		308								
22.09		499								
22.26		1643								
23.30		872								
23.65		141								
24.36		1093								
24.75		217								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB59-9-10

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 22 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	0.41	JP
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	1.6	JP
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	1.2	JP
959-98-8	Endosulfan I	1.3	JP
33213-65-9	Endosulfan II	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	0.68	JP
7421-93-4	Endrin Aldehyde	0.52	J
76-44-8	Heptachlor	1.8	JP
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	0.91	JBP
5103-71-9	alpha-Chlordane	6.6	

FORM I PEST

Data File: /chem/tracegc84.i/j100528d.b/074j1005129-16.d

Date : 30-MAY-2010 04:02

Client ID: SB59-9-10

Instrument: tracegc84.i

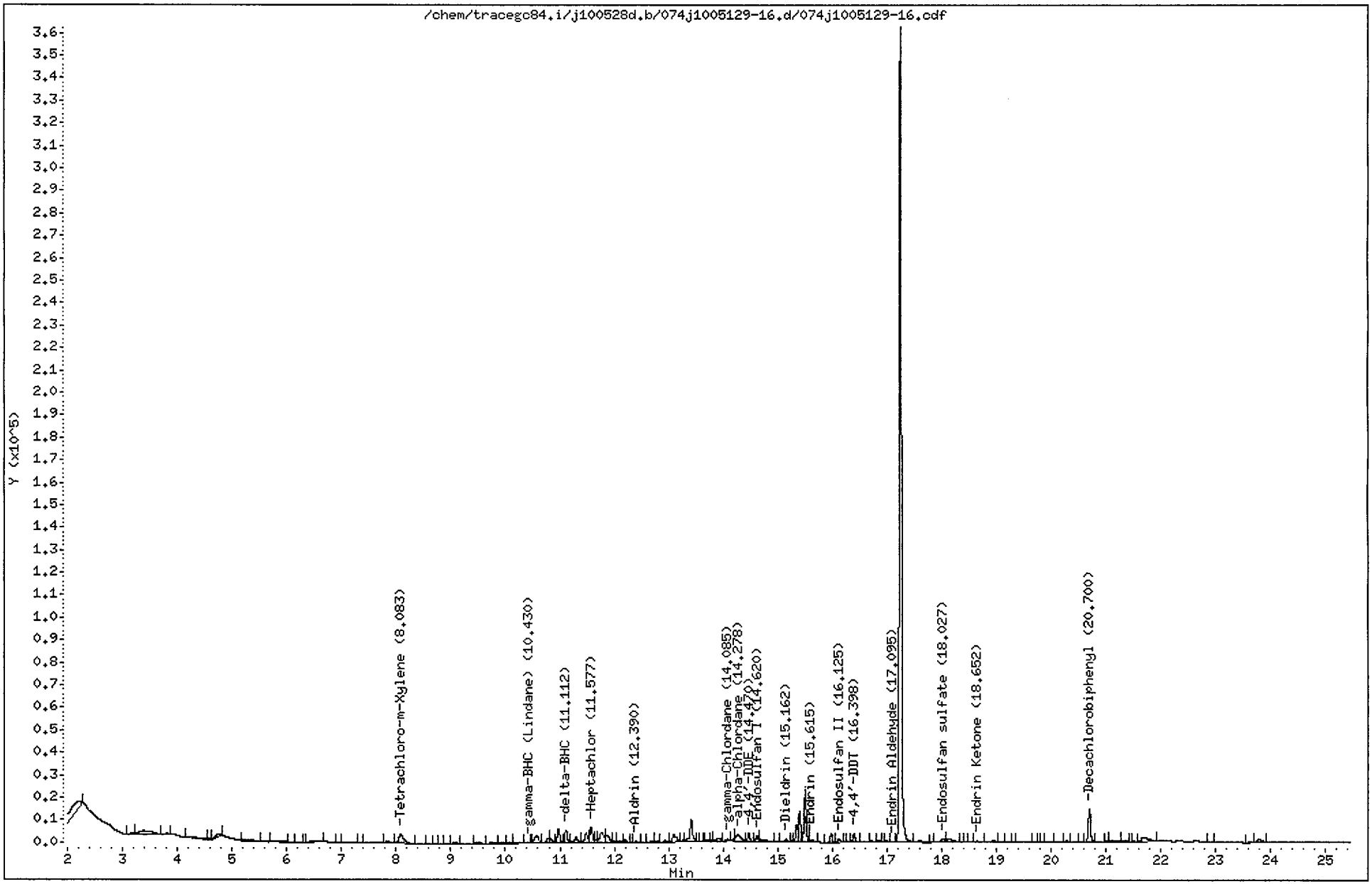
Sample Info: 1005129-16

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-16 Client Smp Id : SB59-9-10
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 04:02 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SB59-9-10

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 22(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57			145691								
2.21			32972								
3.21			2290								
3.36			27977								
3.83			1589								
4.21			4404								
4.76			6013								
5.26			3159								
5.85			3687								
6.21			690								
6.52			2958								
6.98			160								
7.38			177								
7.84			3844								
8.08	8.01	8.15	25825	522758	Tetrachloro-m-Xylene	0.049400	10.55547		82.3	70 - 125	
8.59			606								
8.87			130								
9.07			1013								
9.51			1761								
9.76			1674								
9.92			2108								
10.09			1085								
10.23			1703								
10.43	10.36	10.50	1393	729192	gamma-BHC (Lindane)	0.001909	0.407898	2.179487			J
10.48			940								
10.58			18155								
10.79			6901								
10.82			8395								
10.98			19652								
11.11	11.02	11.16	18393	689518	delta-BHC	0.026675	5.699824	2.179487			
11.30			12099								
11.48			16510								
11.58	11.55	11.69	24467	695465	Heptachlor	0.035179	7.516953	2.179487			
11.67			4591								
11.77			22782								
11.87			16633								
11.99			2931								

6/3/10

CompuChem

Lab Smp Id : 1005129-16 Client Smp Id : SB59-9-10
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 04:02 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SB59-9-10

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 22(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.06		2816								
12.21		3079								
12.39	12.27 12.41	1012	636570	Aldrin	0.001588	0.339359	2.179487			J
12.68		2697								
12.77		2027								
12.94		3716								
13.09		16149								
13.26		2046								
13.41		33764								
13.53		733								
13.60		670								
13.70		1365								
13.80		287								
13.93		5154								
14.08	13.97 14.11	2540	594875	gamma-Chlordane	0.004270	0.912351	2.179487			J
14.22		3217								
14.28	14.27 14.41	16000	516712	alpha-Chlordane	0.030963	6.616038	2.179487			M2
14.47	14.45 14.59	9142	523741	4,4'-DDE	0.017455	3.729740	4.230769			J
14.62	14.57 14.71	7788	548162	Endosulfan I	0.014206	3.035393	2.179487			M2
14.67		6811								
15.16	15.10 15.24	5449	515556	Dieldrin	0.010567	2.257955	4.230769			J
15.26		1583								
15.35		18610								
15.40		35391								
15.50		62974								
15.62	15.61 15.75	4408	463071	Endrin	0.009519	2.033986	4.230769			J
15.98		10584								
16.12	16.09 16.23	5502	450326	Endosulfan II	0.012216	2.610168	4.230769			J
16.23		200								
16.30		392								
16.40	16.35 16.49	9951	454781	4,4'-DDT	0.021881	4.675395	4.230769			
16.61		1332								
16.71		2374								
16.85		1819								
16.94		743								
16.98		2094								
17.10	17.00 17.14	1019	348470	Endrin Aldehyde	0.002921	0.624218	4.230769			J

M2 6/3/10

CompuChem

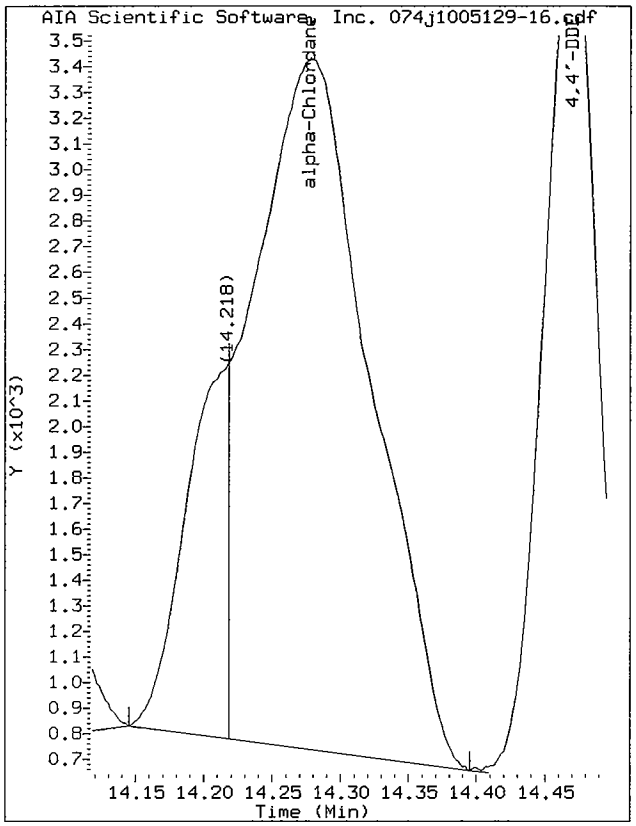
Lab Smp Id : 1005129-16 Client Smp Id : SB59-9-10
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 04:02 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SB59-9-10

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

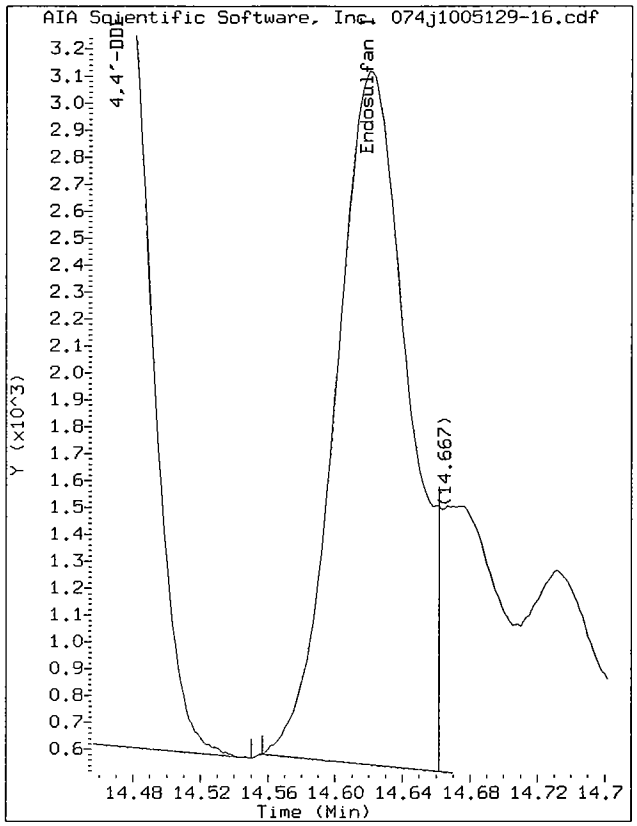
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 22(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.25		993246								
17.59		3595								
18.03	17.93 18.07	6001	392055	Endosulfan sulfate	0.015304	3.270080	4.230769			J
18.14		8177								
18.34		207								
18.52		275								
18.65	18.53 18.67	1233	457258	Endrin Ketone	0.002697	0.576178	4.230769			J
18.96		2708								
19.06		1297								
19.30		217								
19.72		160								
19.87		248								
19.99		754								
20.28		620								
20.45		288								
20.70	20.63 20.77	39682	408350	Decachlorobiphenyl	0.097174	20.76367		81.0	55 - 130	
21.03		151								
21.20		2685								
21.32		1611								
21.52		187								
21.68		13245								
22.93		695								
23.68		1763								
23.80		8419								

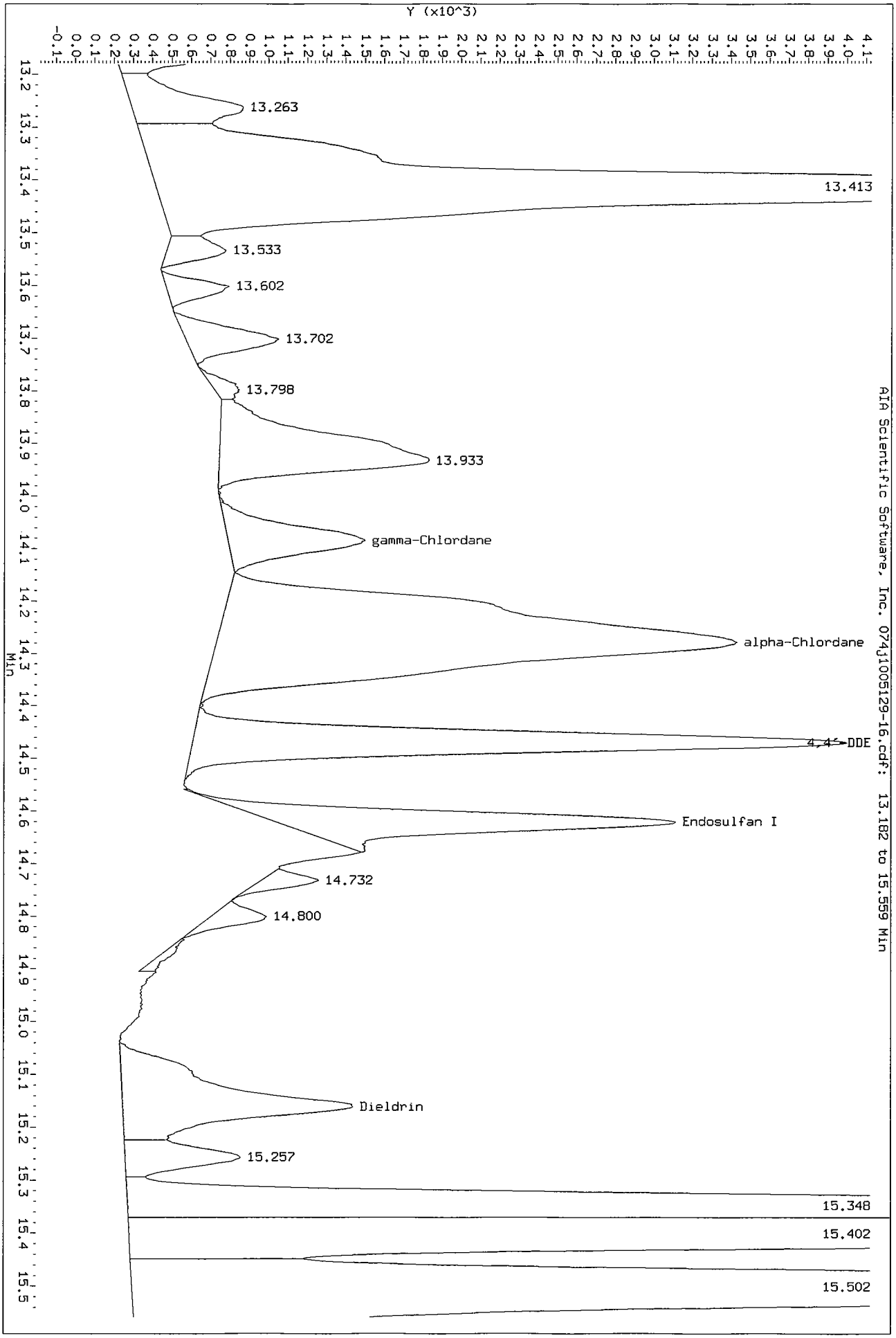
Manually Integrated Peaks



Start: 14.22 Stop: 14.39



Start: 14.56 Stop: 14.66


Data File: /chem/tracegc84.i/j100528d.b/074j1005129-16.d/074j1005129-16.cdf
Injection Date: 30-MAY-2010 04:02
Instrument: tracegc84.i
Client Sample ID: SB59-9-10
Y (x10^3)
13.263
13.413
13.533
13.602
13.702
13.798
13.933
gamma-Chlordane
alpha-Chlordane
4,4'-DDE
Endosulfan I
14.732
14.800
Dieldrin
15.257
15.348
15.402
15.502
AIA Scientific Software, Inc. 074j1005129-16.cdf: 13.182 to 15.559 Min
Min

Data File: /chem/tracegc84.i/j100528d_2C.b/074j1005129-16.d

Date : 30-MAY-2010 04:02

Client ID: SB59-9-10

Instrument: tracegc84.i

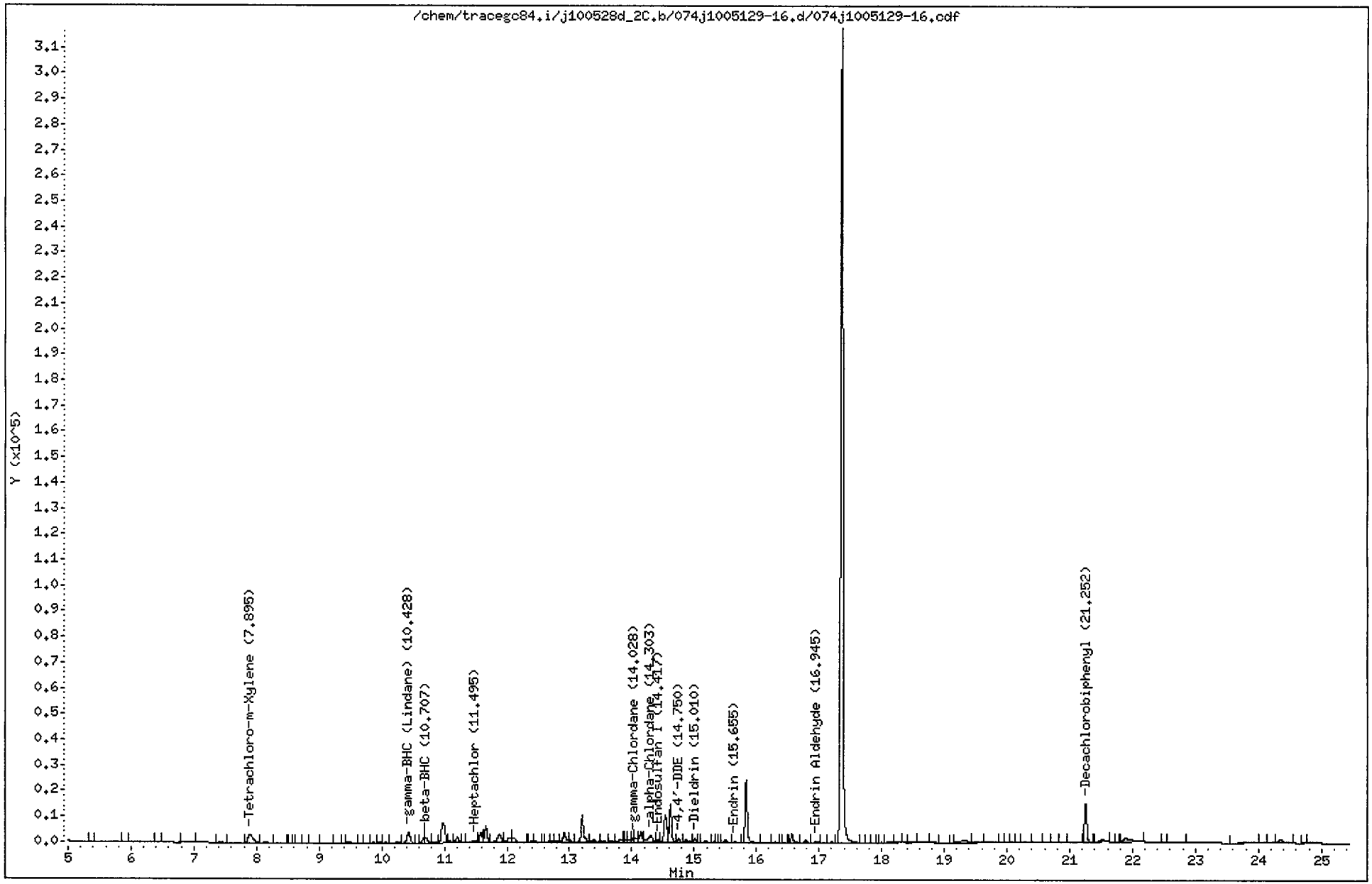
Sample Info: 1005129-16

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-16 Client Smp Id : SB59-9-10
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 04:02 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SB59-9-10

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 22(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.61			102407								
1.69			21195								
2.02			629495								
2.83			43624								
3.13			68407								
4.32			17292								
5.41			122								
5.92			152								
6.45			208								
6.88			1123								
7.42			696								
7.90	7.82	7.96	18400	416798	Tetrachloro-m-Xylene	0.044144	9.432423		73.6	70 - 125	
8.15			2051								
8.39			860								
8.55			120								
8.68			268								
8.93			859								
9.28			242								
9.41			287								
9.47			1458								
9.76			192								
9.86			638								
9.96			779								
10.06			638								
10.25			1568								
10.43	10.39	10.53	15564	585542	gamma-BHC (Lindane)	0.026579	5.679225	2.179487			
10.67			4701								
10.71	10.63	10.77	5986	248610	beta-BHC	0.024074	5.143985	1.091026			
10.82			1357								
10.98			32335								
11.09			2689								
11.21			6596								
11.30			883								
11.50	11.45	11.59	4946	579497	Heptachlor	0.008535	1.823715	2.179487			J
11.58			12655								
11.66			18765								
11.87			15946								

KEH 6/3/10

CompuChem

Lab Smp Id : 1005129-16 Client Smp Id : SB59-9-10
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 04:02 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SB59-9-10

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 22(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.04		7867								
12.11		9662								
12.39		2136								
12.46		1033								
12.67		1190								
12.72		1249								
12.79		1839								
12.91		13549								
13.01		2530								
13.20		30263								
13.40		4392								
13.52		2619								
13.70		2034								
13.82		4392								
13.88		1620								
13.92		2563								
13.96		2946								
14.03	13.95 14.09	4451	513150	gamma-Chlordane	0.008674	1.853393	2.179487			J
14.06		4313								
14.15		12514								
14.30	14.28 14.42	15628	446248	alpha-Chlordane	0.035021	7.483104	2.179487			
14.42	14.39 14.53	2887	477982	Endosulfan I	0.006040	1.290592	2.179487			J
14.54		35068								
14.62		36837								
14.75	14.67 14.81	3436	468602	4,4'-DDE	0.007330	1.566305	4.230769			J
14.87		2480								
15.01	14.99 15.13	2690	461929	Dieldrin	0.005823	1.244318	4.230769			JM
15.07		176								
15.18		1068								
15.31		283								
15.40		159								
15.51		3578								
15.66	15.65 15.79	1291	408649	Endrin	0.003159	0.675041	4.230769			J
15.83		59422								
16.30		766								
16.45		328								
16.57		9712								

6/3/10

CompuChem

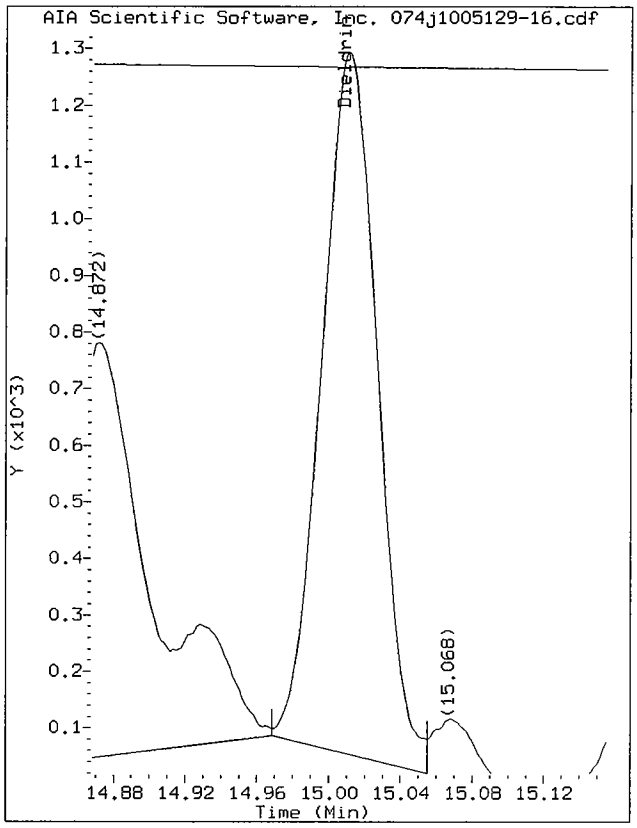
Lab Smp Id : 1005129-16 Client Smp Id : SB59-9-10
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 04:02 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SB59-9-10

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 22(%)

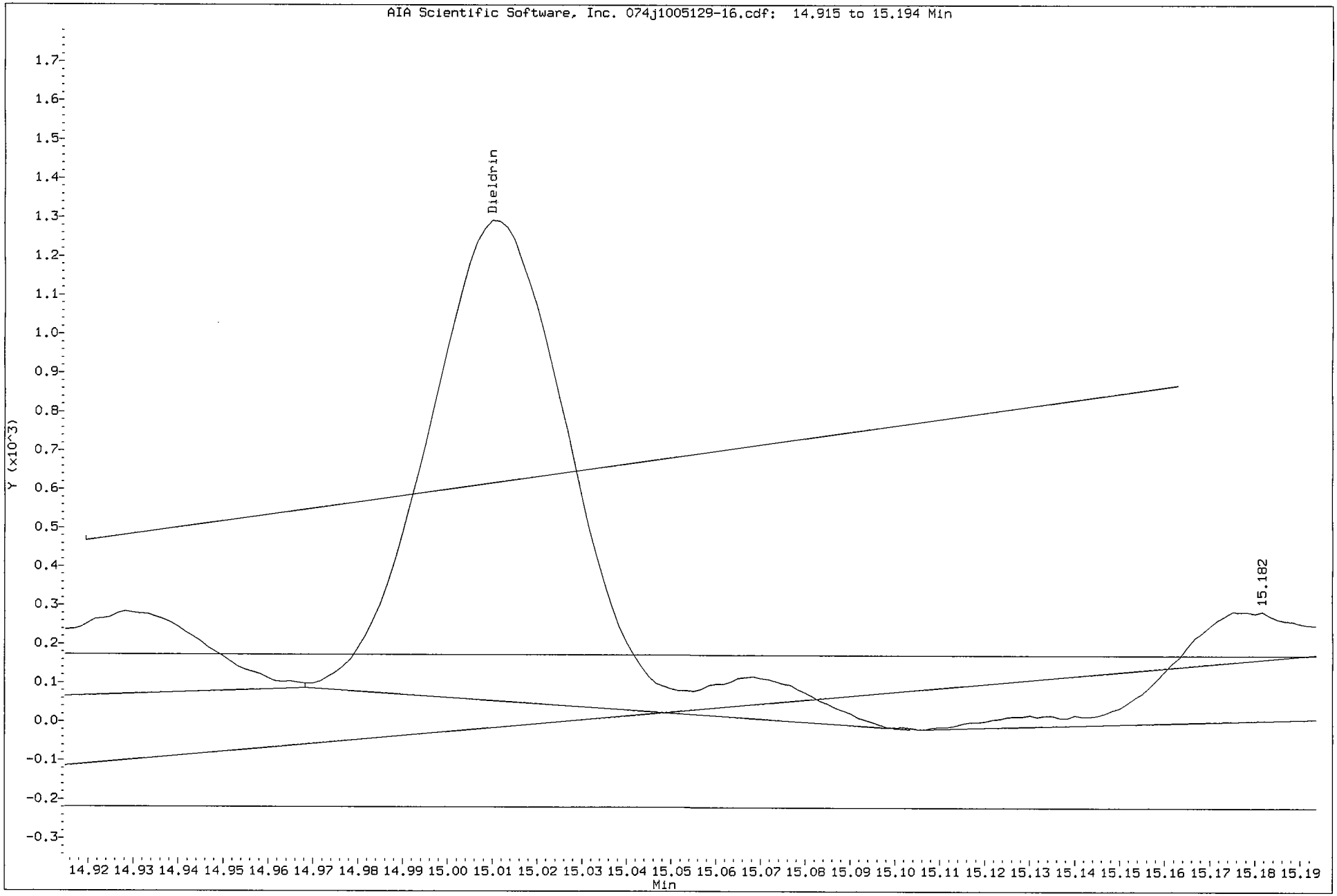
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.78		2235								
16.94	16.83 16.97	767	316985	Endrin Aldehyde	0.002417	0.516350	4.230769			J
17.21		641								
17.36		833562								
17.69		115								
17.85		143								
18.00		189								
18.13		699								
18.25		1450								
18.36		393								
18.48		1763								
18.80		525								
19.13		164								
19.32		8248								
19.50		1588								
19.82		982								
19.92		96								
20.09		181								
20.32		664								
20.61		336								
20.78		124								
21.11		1715								
21.25	21.18 21.32	40562	406698	Decachlorobiphenyl	0.099733	21.31039		83.1	55 - 130	
21.52		4353								
21.75		112								
21.89		13832								
22.50		245								
22.68		2424								
23.77		5189								
24.09		216								
24.35		5527								
24.75		90								

Manually Integrated Peaks



Start: 14.97 Stop: 15.05

Data File: /chem/tracegc84.i/j100528d_2C.b/074j1005129-16.d/074j1005129-16.cdf
Injection Date: 30-MAY-2010 04:02
Instrument: tracegc84.i
Client Sample ID: SB59-9-10



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB80-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	0.99	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	2.0	J
50-29-3	4,4'-DDT	2.9	J
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	0.38	J
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	0.45	JB
5103-71-9	alpha-Chlordane	0.34	J

Data File: /chem/tracegc84.i/j100528d.b/066j1005129-08.d

Date : 30-MAY-2010 00:11

Client ID: SB80-3-4

Instrument: tracegc84.i

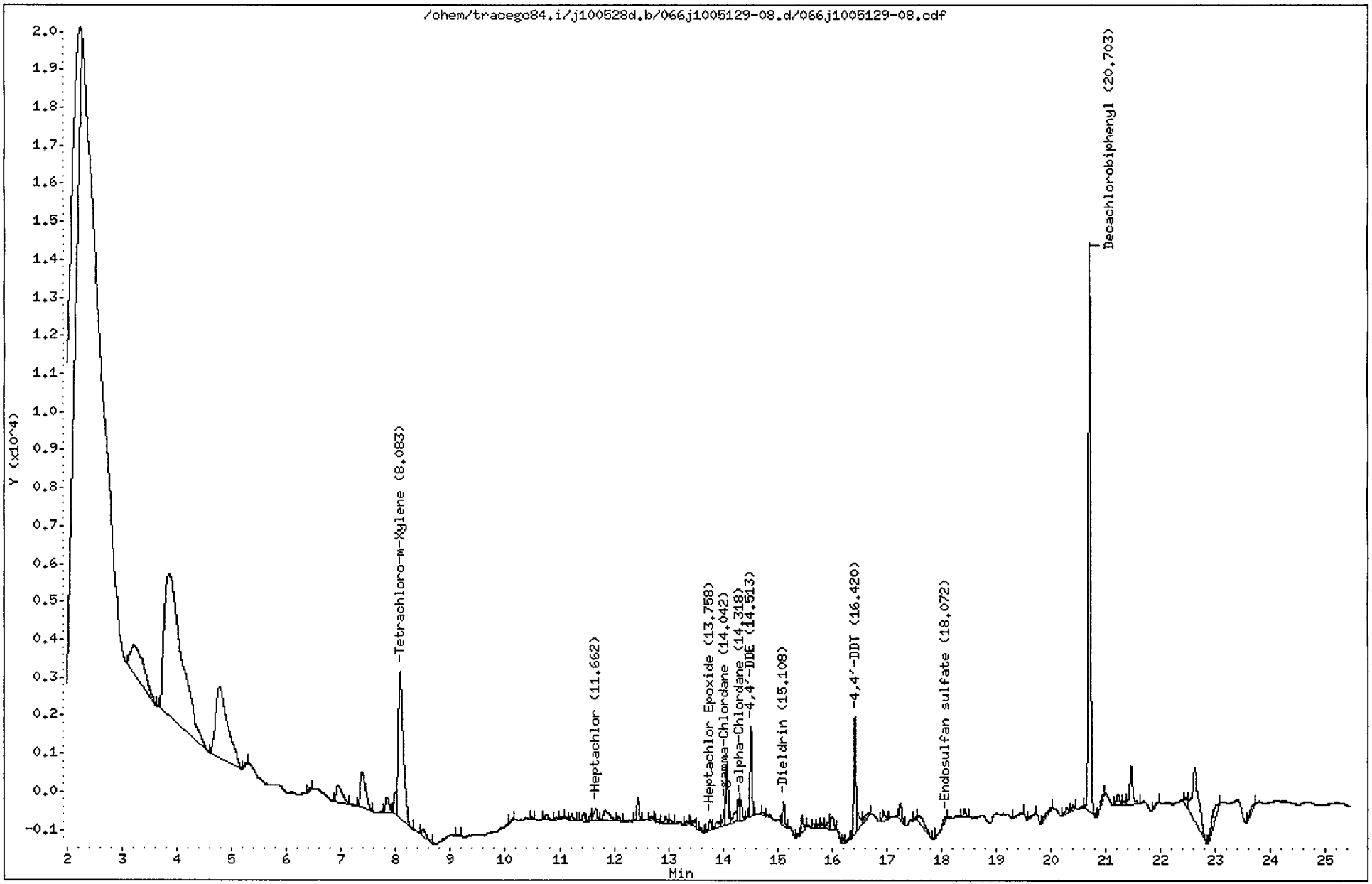
Sample Info: 1005129-08

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-08 Client Smp Id : SB80-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SB80-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58			8905								
2.24			55688								
3.21			13608								
3.87			83131								
4.76			29325								
5.26			255								
6.43			292								
6.95			3439								
7.38			6418								
7.83			1771								
8.00			1866								
8.08	8.01	8.15	25120	522758	Tetrachloro-m-Xylene	0.048053	9.312572		80.1	70 - 125	
8.50			987								
9.14			151								
10.14			191								
10.50			169								
10.77			636								
10.94			172								
11.01			143								
11.22			528								
11.45			724								
11.57			572								
11.66	11.55	11.69	1351	695465	Heptachlor	0.001941	0.376191	1.976744			J
11.84			2385								
12.08			461								
12.44			1637								
12.67			343								
12.81			255								
12.95			490								
13.04			261								
13.33			186								
13.45			541								
13.60			266								
13.76	13.68	13.82	872	593700	Heptachlor Epoxide	0.001469	0.284642	1.976744			J
13.89			912								
14.04	13.97	14.11	1368	594875	gamma-Chlordane	0.002300	0.445667	1.976744			JM
14.08			4430								

JM 6/3/10

CompuChem

Lab Smp Id : 1005129-08 Client Smp Id : SB80-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SB80-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.26		1616								
14.30		1618								
14.32	14.27 14.41	1209	516712	alpha-Chlordane	0.002340	0.453448	1.976744			JM2
14.51	14.45 14.59	5710	523741	4,4'-DDE	0.010900	2.112485	3.837209			J
14.72		187								
15.11	15.10 15.24	1558	515556	Dieldrin	0.003022	0.585655	3.837209			J
15.36		197								
15.45		1305								
15.66		271								
15.75		296								
15.82		511								
15.95		787								
16.01		1246								
16.21		250								
16.30		195								
16.42	16.35 16.49	7915	454781	4,4'-DDT	0.017402	3.372437	3.837209			JM2
16.46		1613								
16.67		973								
16.94		791								
17.25		1422								
17.55		176								
17.60		1876								
18.07	17.93 18.07	830	392055	Endosulfan sulfate	0.002117	0.410281	3.837209			J
18.42		627								
19.45		362								
19.70		256								
20.00		842								
20.29		560								
20.40		342								
20.70	20.63 20.77	42096	408350	Decachlorobiphenyl	0.103086	19.97783		85.9	55 - 130	
20.96		733								
21.22		1185								
21.33		294								
21.46		3849								
21.94		360								
22.46		835								
22.62		11088								

CompuChem

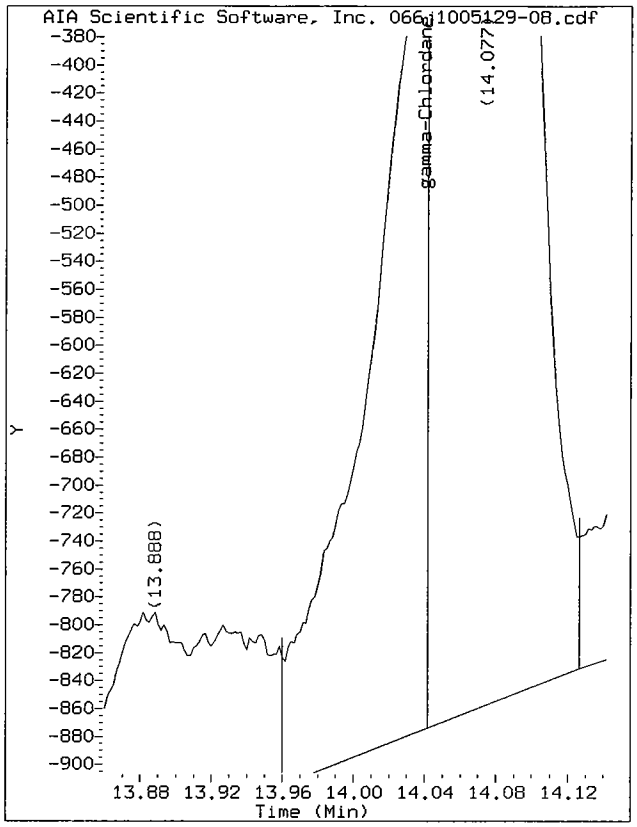
Lab Smp Id : 1005129-08 Client Smp Id : SB80-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SB80-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

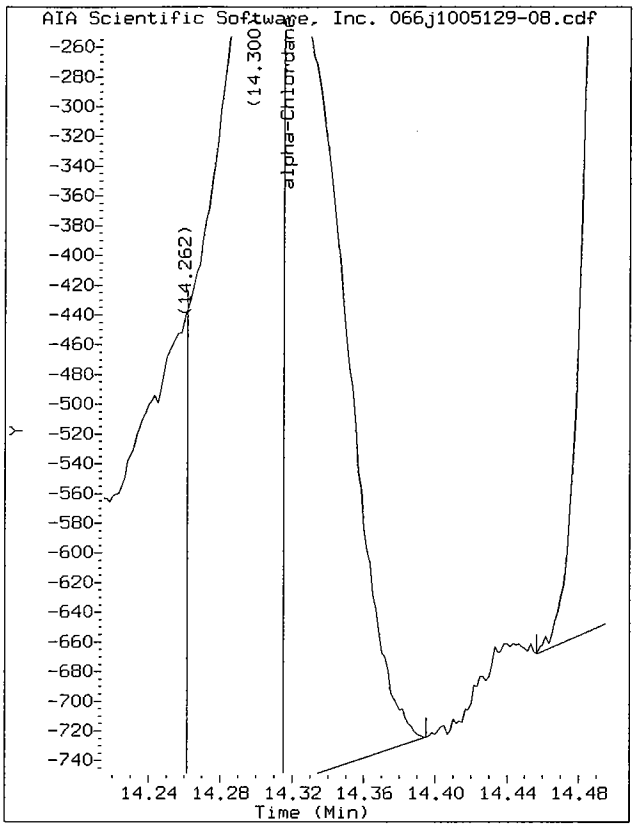
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.07		2636								
23.73		717								

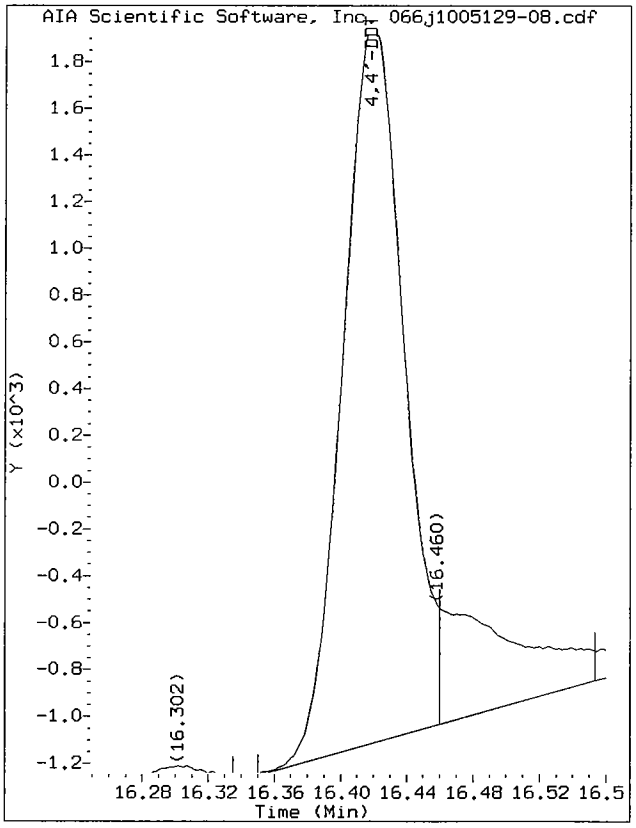
Manually Integrated Peaks



Start: 13.96 Stop: 14.04

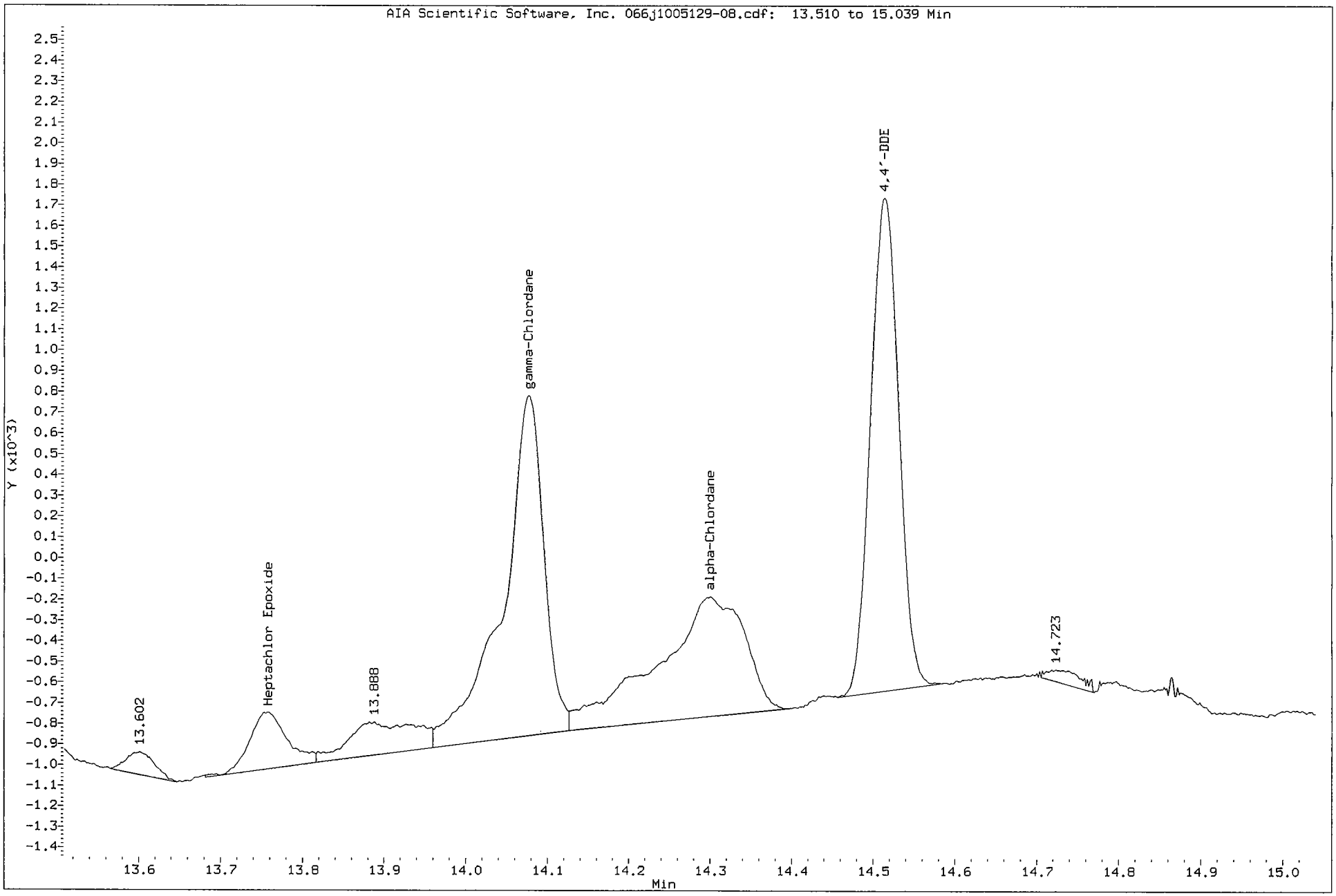


Start: 14.31 Stop: 14.39

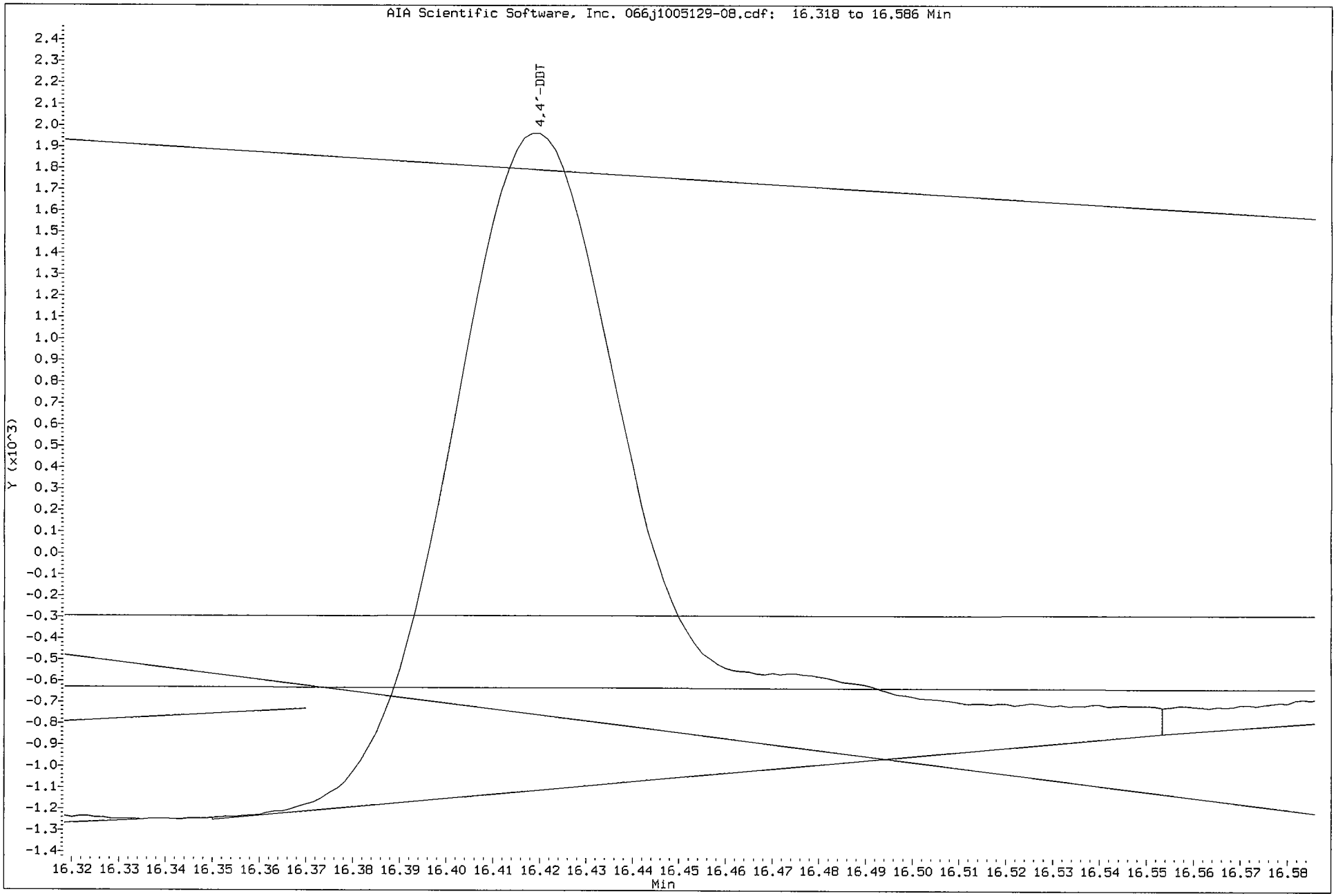


Start: 16.35 Stop: 16.46

Data File: /chem/tracegc84.i/j100528d.b/066j1005129-08.d/066j1005129-08.cdf
Injection Date: 30-MAY-2010 00:11
Instrument: tracegc84.i
Client Sample ID: SB80-3-4



Data File: /chem/tracegc84.i/j100528d.b/066j1005129-08.d/066j1005129-08.cdf
Injection Date: 30-MAY-2010 00:11
Instrument: tracegc84.i
Client Sample ID: SB80-3-4



Data File: /chem/tracegc84.i/j100528d_2C.b/066j1005129-08.d

Date : 30-MAY-2010 00:11

Client ID: SB80-3-4

Instrument: tracegc84.i

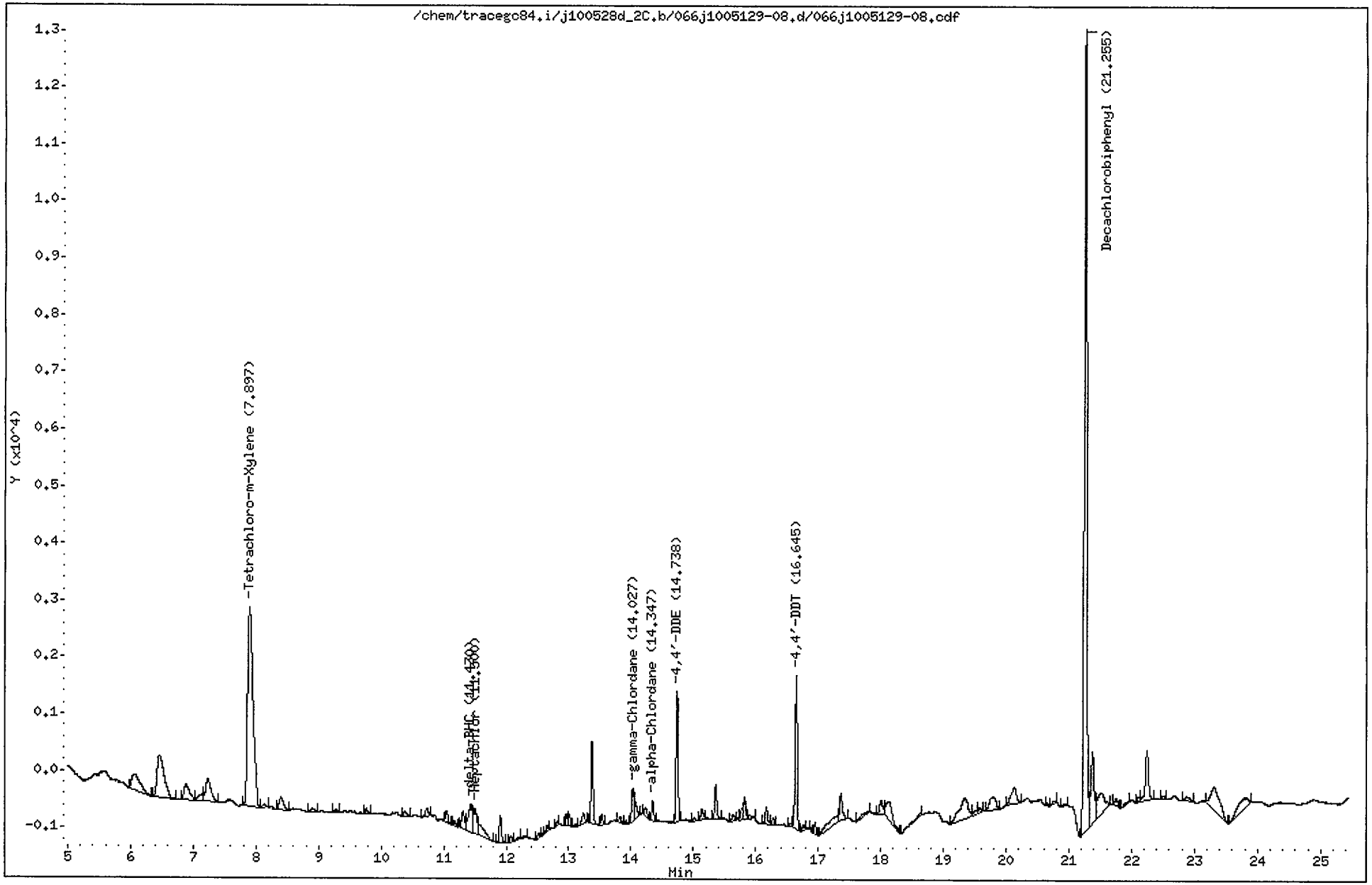
Sample Info: 1005129-08

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-08 Client Smp Id : SB80-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SB80-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.03			40333								
2.85			2199								
3.16			2436								
3.21			301								
4.32			11003								
6.07			2678								
6.46			5711								
6.88			1729								
7.12			636								
7.23			2430								
7.90	7.82	7.96	21147	416798	Tetrachloro-m-Xylene	0.050737	9.832726		84.6	70 - 125	
8.14			227								
8.40			1073								
8.90			312								
9.28			160								
9.76			281								
10.38			270								
10.73			474								
11.04			572								
11.17			213								
11.30			1023								
11.43	11.33	11.47	2359	551235	delta-BHC	0.004278	0.829005	1.976744			J
11.50	11.45	11.59	1648	579497	Heptachlor	0.002844	0.551133	1.976744			JM 2
11.56			1298								
11.91			1142								
12.07			258								
12.21			144								
12.29			129								
12.52			204								
12.65			244								
12.81			141								
12.96			371								
13.01			458								
13.11			128								
13.24			544								
13.37			3256								
13.53			365								

CompuChem

Lab Smp Id : 1005129-08 Client Smp Id : SB80-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SB80-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.82		280								
13.92		133								
14.03	13.95 14.09	1515	513150	gamma-Chlordane	0.002952	0.572161	1.976744			JM 2
14.06		772								
14.23		473								
14.35	14.28 14.42	796	446248	alpha-Chlordane	0.001784	0.345691	1.976744			J
14.74	14.67 14.81	4932	468602	4,4'-DDE	0.010523	2.039298	3.837209			J
15.01		141								
15.14		499								
15.36		1397								
15.64		312								
15.78		461								
15.82		862								
15.91		213								
16.17		768								
16.28		293								
16.56		122								
16.64	16.57 16.71	6067	405929	4,4'-DDT	0.014944	2.896029	3.837209			J
16.76		198								
16.88		101								
16.95		436								
17.30		1662								
17.36		1461								
17.80		460								
18.00		893								
18.11		2193								
18.63		447								
19.34		3435								
19.52		294								
19.58		226								
19.79		1544								
20.13		1736								
20.66		109								
20.77		136								
20.94		156								
21.26	21.18 21.32	39463	406698	Decachlorobiphenyl	0.097033	18.80481		80.9	55 - 130	
21.37		4702								

TEH 6/3/10

CompuChem

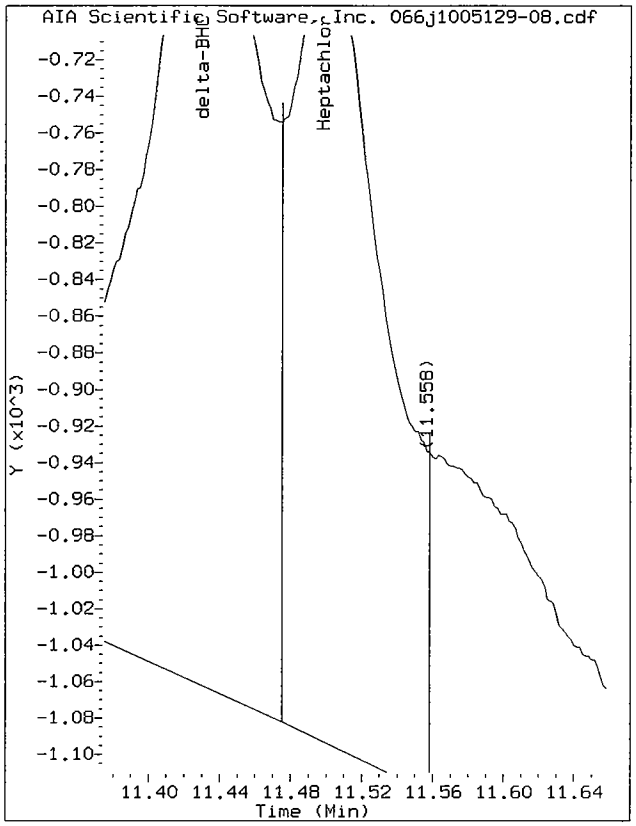
Lab Smp Id : 1005129-08 Client Smp Id : SB80-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SB80-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

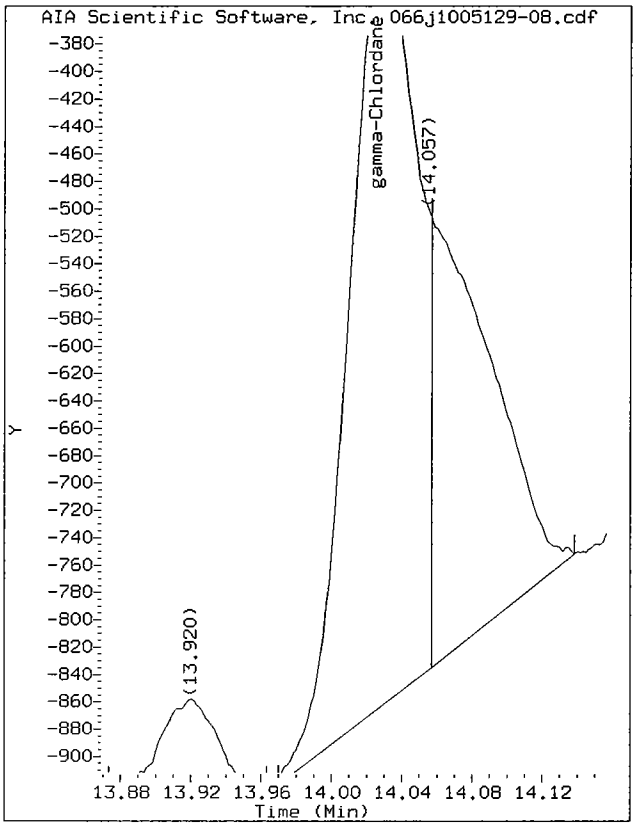
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.52		3008								
21.75		395								
21.95		110								
22.11		282								
22.24		2944								
22.50		175								
22.88		400								
23.30		3929								
23.81		2109								

Manually Integrated Peaks

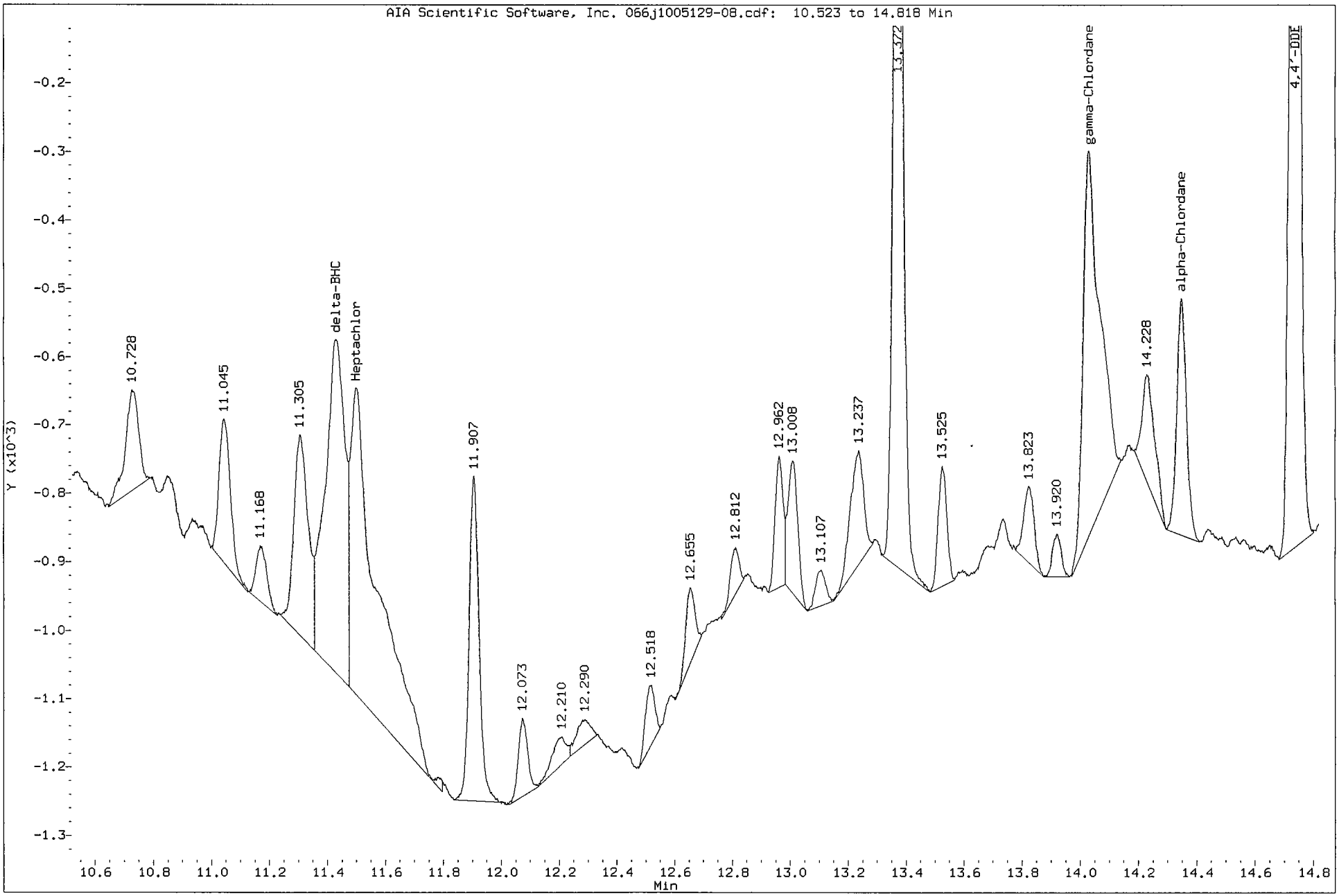


Start: 11.47 Stop: 11.56



Start: 13.97 Stop: 14.06

Data File: /chem/tracegc84.i/j100528d_2C.b/066j1005129-08.d/066j1005129-08.cdf
Injection Date: 30-MAY-2010 00:11
Instrument: tracegc84.i
Client Sample ID: SB80-3-4



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB89-6.5-7.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.95	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	1.4	JP
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	0.40	JP
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

Data File: /chem/tracegc84.i/j100528e.b/081j1005129-19.d

Date : 30-MAY-2010 07:24

Client ID: SB89-6.5-7.5

Instrument: tracegc84.i

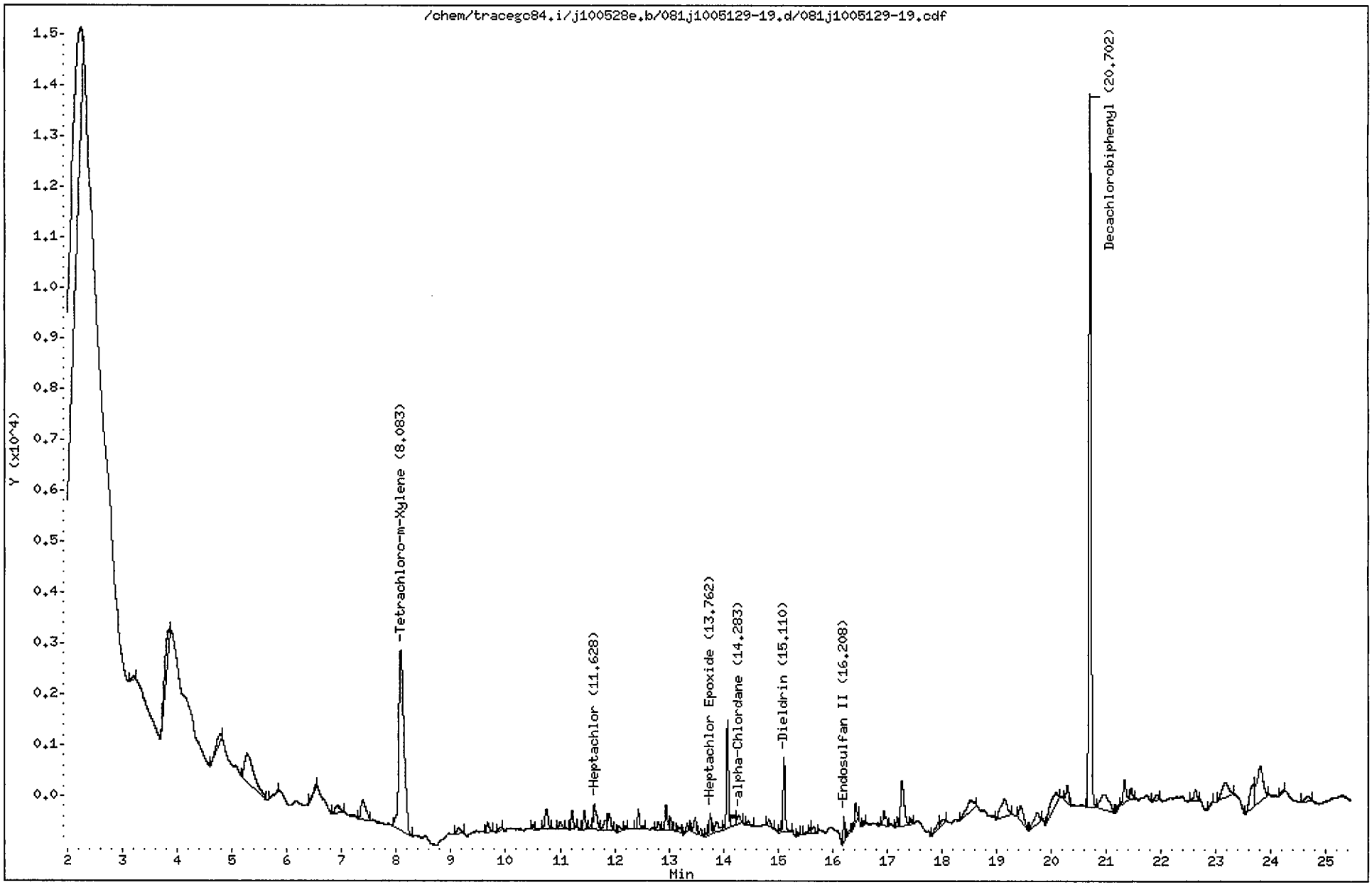
Sample Info: 1005129-19

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-19 Client Smp Id : SB89-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:24 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SB89-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58			48409								
2.23			36361								
3.21			262								
3.85			3594								
4.76			943								
5.28			6896								
5.85			219								
6.53			368								
6.93			978								
7.38			2411								
8.08	8.01	8.15	23399	522758	Tetrachloro-m-Xylene	0.044761	8.289021		74.6	70 - 125	
9.14			539								
9.67			678								
9.91			149								
10.50			266								
10.75			1514								
11.00			467								
11.22			1110								
11.45			1097								
11.57			225								
11.63	11.55	11.69	2154	695465	Heptachlor	0.003096	0.573291	1.888889			J
11.84			836								
11.90			1174								
12.08			375								
12.20			147								
12.44			1106								
12.80			503								
12.95			1538								
13.04			570								
13.17			449								
13.34			470								
13.48			966								
13.59			375								
13.69			147								
13.76	13.68	13.82	1096	593700	Heptachlor Epoxide	0.001844	0.341549	1.888889			J
13.88			1051								
14.00			165								

KEH 6/3/10

CompuChem

Lab Smp Id : 1005129-19 Client Smp Id : SB89-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:24 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SB89-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.08		5173								
14.16		1072								
14.28	14.27 14.41	645	516712	alpha-Chlordane	0.001246	0.230804	1.888889			J
14.46		273								
14.83		531								
15.05		175								
15.11	15.10 15.24	3871	515556	Dieldrin	0.007508	1.390444	3.666667			J
15.37		121								
15.51		135								
15.59		241								
15.65		425								
16.21	16.09 16.23	969	450326	Endosulfan II	0.002150	0.398065	3.666667			J
16.31		241								
16.42		1000								
16.58		134								
16.94		1015								
17.18		430								
17.27		3972								
17.44		250								
17.95		688								
18.02		452								
18.52		1962								
19.16		3016								
19.44		1863								
19.76		1456								
20.09		2505								
20.29		1126								
20.70	20.63 20.77	38671	408350	Decachlorobiphenyl	0.094698	17.53670		78.9	55 - 130	
20.97		3228								
21.22		163								
21.34		1613								
21.46		650								
21.92		497								
22.62		828								
22.93		193								
23.16		2423								
23.66		2710								

CompuChem

Lab Smp Id : 1005129-19 Client Smp Id : SB89-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:24 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SB89-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.80		5623								
24.22		216								
24.66		658								

Data File: /chem/tracegc84.i/j100528e_2C.b/081j1005129-19.d

Date : 30-MAY-2010 07:24

Client ID: SB89-6.5-7.5

Instrument: tracegc84.i

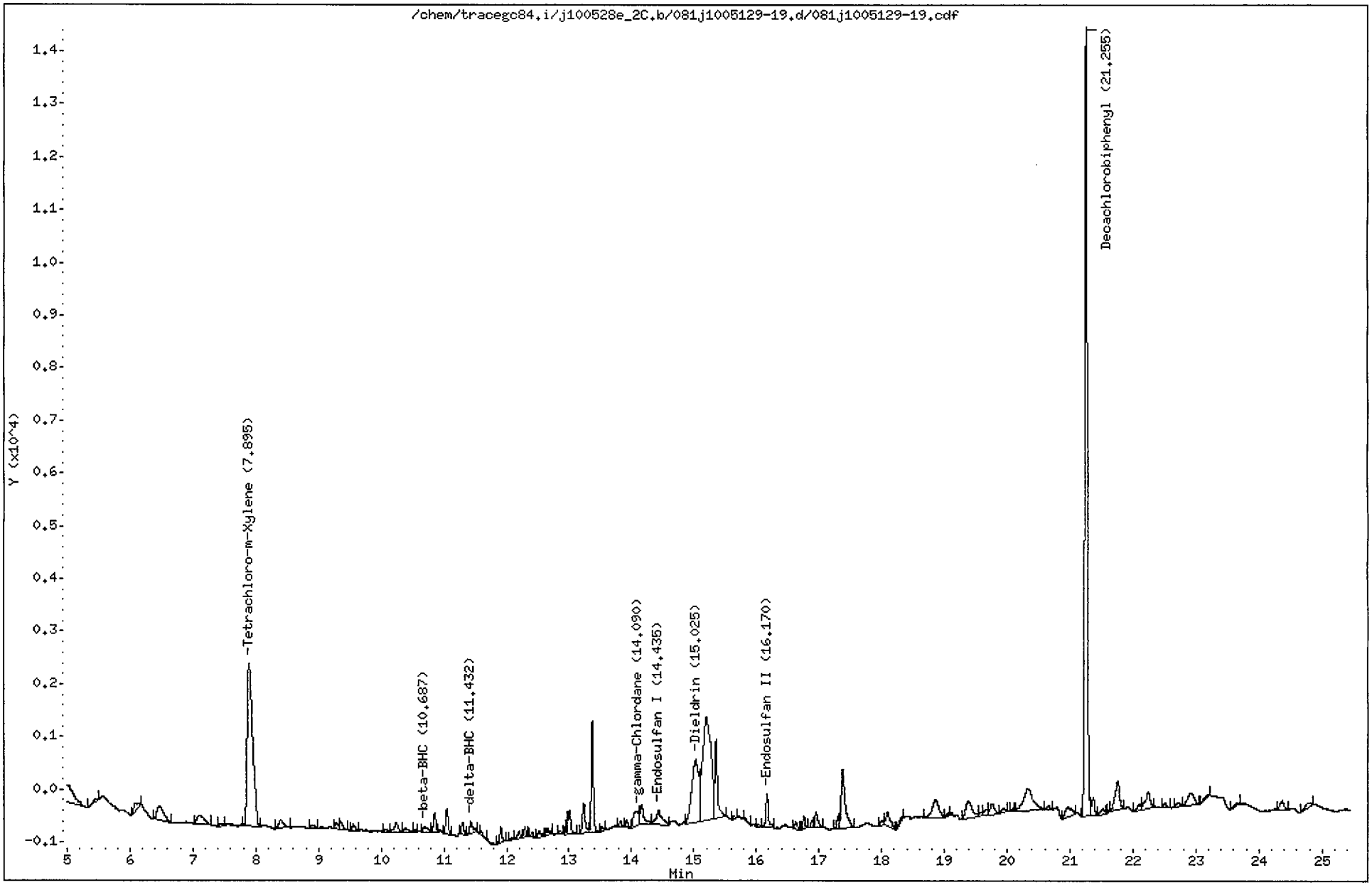
Sample Info: 1005129-19

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



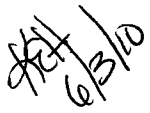
CompuChem

Lab Smp Id : 1005129-19 Client Smp Id : SB89-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:24 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SB89-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.04			54317								
3.21			3551								
4.99			3983								
5.47			234								
6.09			633								
6.46			1958								
7.09			1341								
7.45			133								
7.90	7.82	7.96	18518	416798	Tetrachloro-m-Xylene	0.044427	8.227194		74.0	70 - 125	
8.40			810								
8.90			310								
9.29			382								
9.36			541								
9.56			388								
10.07			134								
10.24			817								
10.39			346								
10.54			110								
10.69	10.63	10.77	510	248610	beta-BHC	0.002047	0.379145	0.945556			J
10.85			954								
11.05			1332								
11.29			554								
11.43	11.33	11.47	796	551235	delta-BHC	0.001444	0.267413	1.888889			J
11.60			158								
11.91			758								
12.08			119								
12.20			381								
12.29			403								
12.41			216								
12.51			423								
12.65			362								
12.86			103								
12.96			601								
13.01			1294								
13.24			1835								
13.37			4866								
13.53			203								



CompuChem

Lab Smp Id : 1005129-19 Client Smp Id : SB89-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:24 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SB89-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.82		290								
13.92		331								
14.09	13.95 14.09	1556	513150	gamma-Chlordane	0.003030	0.561167	1.888889			J
14.16		1630								
14.44	14.39 14.53	1709	477982	Endosulfan I	0.003573	0.661732	1.888889			J
15.02	14.99 15.13	9223	461929	Dieldrin	0.019964	3.697059	3.666667			
15.20		18195								
15.35		4461								
15.64		119								
15.82		124								
16.04		117								
16.17	16.11 16.25	1764	404930	Endosulfan II	0.004354	0.806266	3.666667			J
16.63		387								
16.76		640								
16.89		277								
16.95		914								
17.30		563								
17.37		4912								
18.00		306								
18.10		1275								
18.33		233								
18.86		2536								
19.05		149								
19.38		2243								
19.59		233								
19.66		397								
19.76		950								
19.95		298								
20.09		128								
20.34		4691								
20.66		263								
20.96		1296								
21.26	21.18 21.32	40545	406698	Decachlorobiphenyl	0.099691	18.46126		83.1	55 - 130	
21.37		1037								
21.53		459								
21.62		108								
21.76		2696								

CompuChem

Lab Smp Id : 1005129-19 Client Smp Id : SB89-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:24 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SB89-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.09		396								
22.24		1621								
22.51		286								
22.72		321								
22.92		1594								
23.21		273								
23.65		233								
24.36		694								
24.78		481								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS52-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	0.61	JP
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	0.26	J
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

Data File: /chem/tracegc84.i/j100528d.b/070j1005129-12.d

Date : 30-MAY-2010 02:06

Client ID: SS52-0-1

Instrument: tracegc84.i

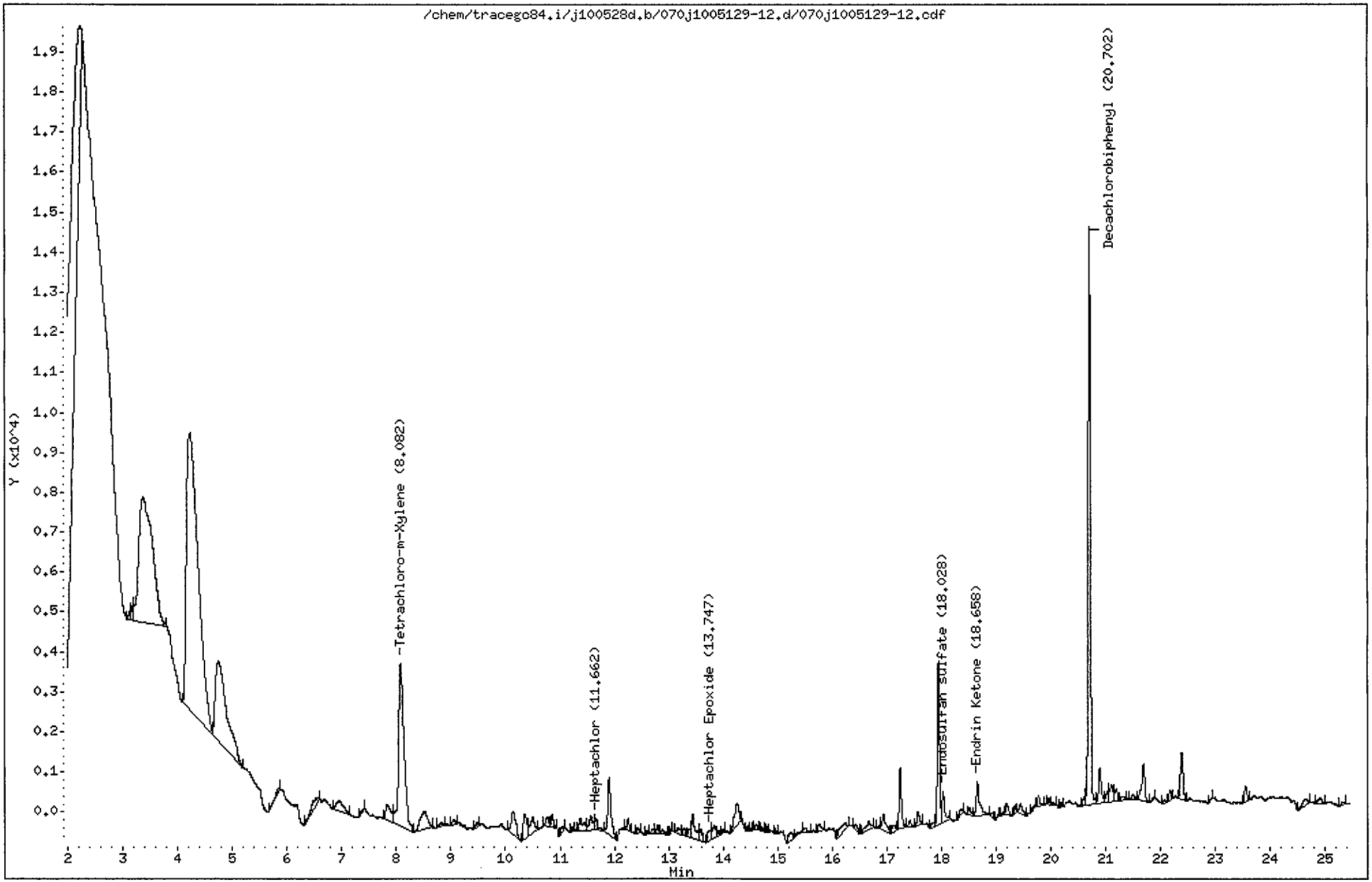
Sample Info: 1005129-12

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-12 Client Smp Id : SS52-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:06 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS52-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.59			10350								
2.23			54917								
3.14			601								
3.19			1023								
3.38			54218								
4.24			103923								
4.74			29206								
5.84			472								
6.54			1844								
6.95			2324								
7.40			240								
7.83			2858								
8.08	8.01	8.15	28160	522758	Tetrachloro-m-Xylene	0.053868	11.22254		89.8	70 - 125	
8.51			4343								
8.84			402								
9.05			430								
9.47			303								
10.14			3392								
10.35			3077								
10.50			2213								
10.77			866								
10.85			969								
11.04			475								
11.22			311								
11.37			1599								
11.56			1692								
11.66	11.55	11.69	1161	695465	Heptachlor	0.001668	0.347489	2.125000			J
11.91			5940								
12.25			822								
12.43			340								
12.60			236								
12.71			458								
12.79			580								
12.88			465								
13.04			217								
13.17			620								
13.29			515								

6/3/10

CompuChem

Lab Smp Id : 1005129-12 Client Smp Id : SS52-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:06 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS52-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.38		585								
13.44		3019								
13.60		852								
13.75	13.68 13.82	1220	593700	Heptachlor Epoxide	0.002055	0.428106	2.125000			J
13.84		1336								
13.92		241								
14.00		204								
14.26		3144								
14.41		275								
14.49		140								
14.61		356								
14.70		212								
14.79		160								
14.95		230								
15.24		978								
15.50		501								
15.75		767								
16.24		1550								
16.43		538								
16.67		1223								
16.86		224								
16.93		1760								
17.13		662								
17.24		4438								
17.42		495								
17.57		974								
17.85		405								
17.94		10998								
18.03	17.93 18.07	2633	392055	Endosulfan sulfate	0.006713	1.398613	4.125000			J
18.37		678								
18.51		536								
18.66	18.53 18.67	3554	457258	Endrin Ketone	0.007770	1.618800	4.125000			J
18.94		375								
19.04		132								
19.12		131								
19.19		1074								
19.34		523								

CompuChem

Lab Smp Id : 1005129-12 Client Smp Id : SS52-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:06 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS52-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.45		1126								
19.71		296								
19.77		734								
19.96		331								
20.04		219								
20.18		268								
20.63		754								
20.70	20.63 20.77	40514	408350	Decachlorobiphenyl	0.099211	20.66905		82.7	55 - 130	
20.89		3049								
21.05		1090								
21.10		1601								
21.19		1264								
21.31		433								
21.49		483								
21.69		3847								
21.87		215								
22.07		230								
22.17		703								
22.38		3976								
22.92		142								
23.55		1354								
24.64		1129								
24.91		652								
25.31		248								

Data File: /chem/tracegc84.i/j100528d_2C.b/070j1005129-12.d

Date : 30-MAY-2010 02:06

Client ID: SS52-0-1

Instrument: tracegc84.i

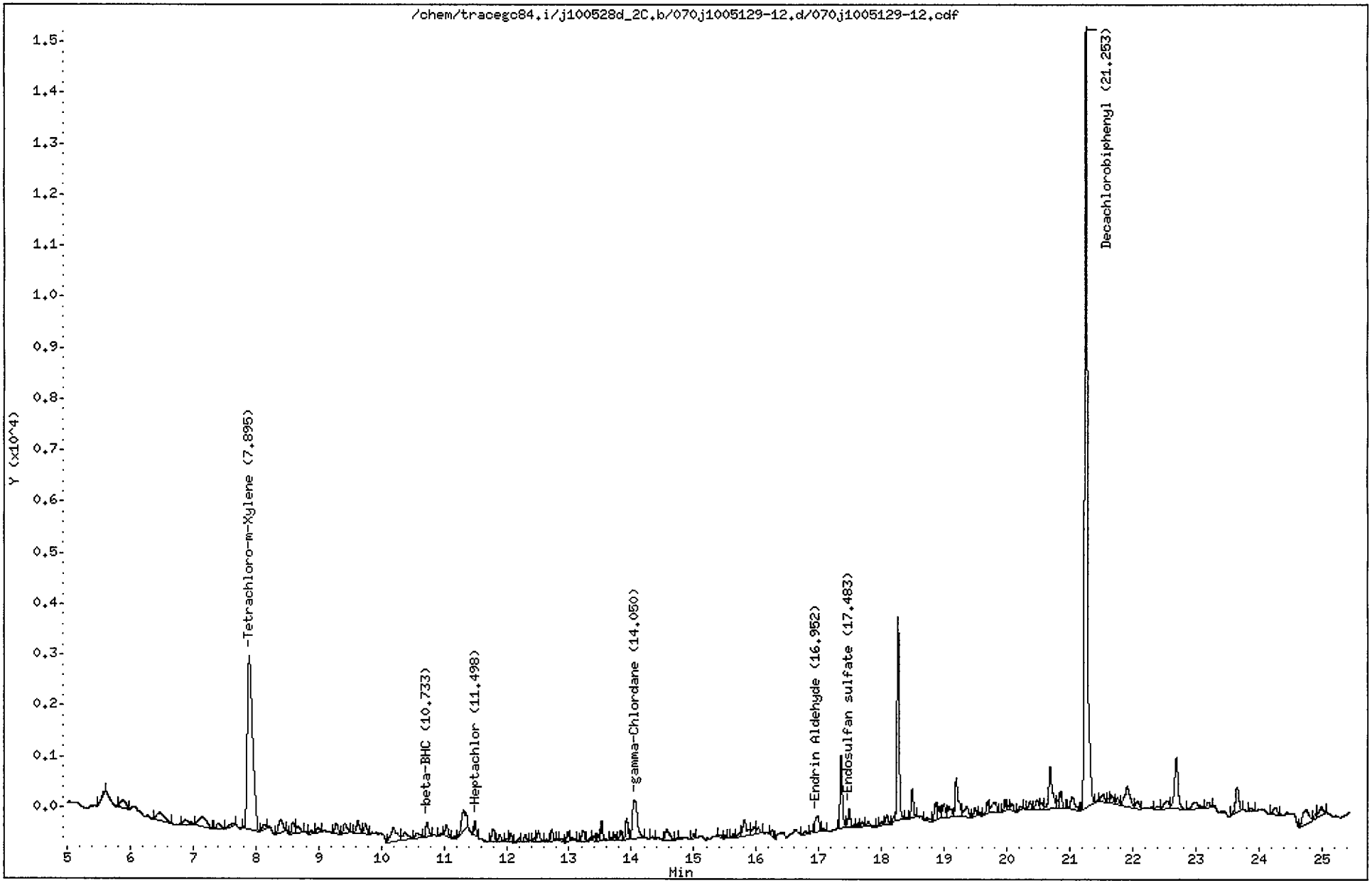
Sample Info: 1005129-12

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-12 Client Smp Id : SS52-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:06 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS52-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.02		240285								
2.06		300681								
2.74		2985								
2.78		895								
3.77		10040								
4.27		1775								
5.60		358								
5.88		962								
6.46		1191								
6.87		522								
7.14		1728								
7.40		664								
7.64		338								
7.90	7.82 7.96	19958	416798	Tetrachloro-m-Xylene	0.047884	9.975868		79.8	70 - 125	
8.14		286								
8.40		1137								
8.59		865								
8.68		484								
8.89		161								
8.99		323								
9.28		725								
9.42		745								
9.63		821								
9.75		626								
10.19		1910								
10.38		892								
10.57		543								
10.73	10.63 10.77	1021	248610	beta-BHC	0.004107	0.855590	1.063750			J
10.96		171								
11.04		710								
11.16		122								
11.31		2222								
11.50	11.45 11.59	717	579497	Heptachlor	0.001237	0.257767	2.125000			JM2
11.79		803								
11.90		430								
12.01		106								
12.07		483								

KEH 6/3/10

CompuChem

Lab Smp Id : 1005129-12 Client Smp Id : SS52-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:06 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS52-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.20		274								
12.30		339								
12.45		123								
12.51		660								
12.63		103								
12.72		588								
12.87		171								
12.98		497								
13.04		229								
13.23		668								
13.34		115								
13.40		226								
13.47		190								
13.52		958								
13.67		101								
13.74		217								
13.83		450								
13.92		1154								
14.05	13.95 14.09	4073	513150	gamma-Chlordane	0.007935	1.653188	2.125000			J
14.34		97								
14.57		1019								
14.74		97								
15.00		226								
15.43		134								
15.50		159								
15.63		188								
15.74		260								
15.82		1407								
15.96		494								
16.03		345								
16.26		353								
16.79		183								
16.95	16.83 16.97	1380	316985	Endrin Aldehyde	0.004350	0.906326	4.125000			J
17.06		145								
17.36		3594								
17.48	17.42 17.56	1079	366674	Endosulfan sulfate	0.002940	0.612488	4.125000			J
17.63		132								

CompuChem

Lab Smp Id : 1005129-12 Client Smp Id : SS52-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:06 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS52-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.69		192								
17.79		336								
18.00		139								
18.09		515								
18.20		207								
18.26		9367								
18.49		1405								
18.73		260								
18.86		949								
18.92		614								
19.00		862								
19.07		955								
19.19		2615								
19.36		903								
19.49		417								
19.57		141								
19.69		608								
19.80		1076								
19.97		487								
20.02		165								
20.09		362								
20.21		179								
20.37		424								
20.48		612								
20.55		432								
20.68		3301								
20.81		365								
20.85		981								
21.04		1191								
21.25	21.18 21.32	44845	406698	Decachlorobiphenyl	0.110264	22.97162		91.9	55 - 130	
21.52		585								
21.61		217								
21.66		621								
21.76		431								
21.91		2280								
22.09		509								
22.38		189								

CompuChem

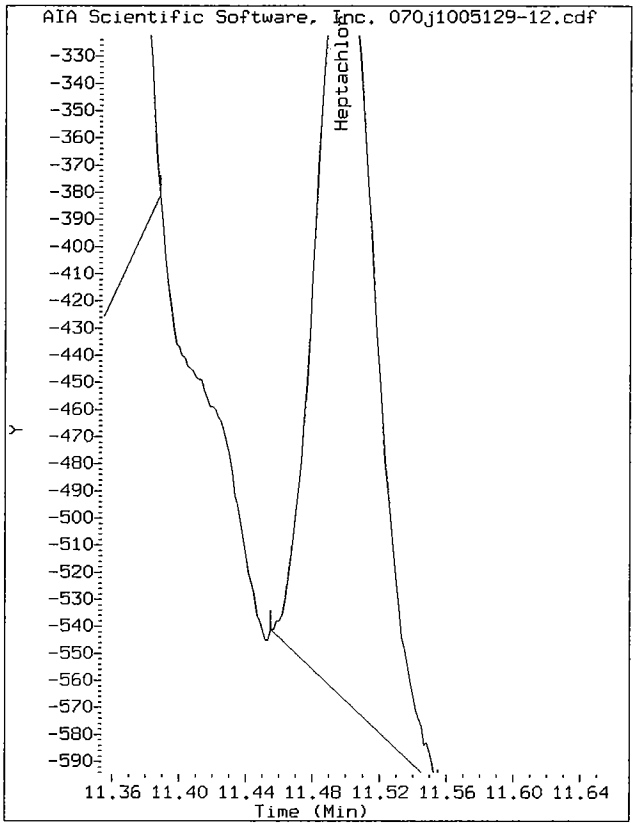
Lab Smp Id : 1005129-12 Client Smp Id : SS52-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:06 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS52-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

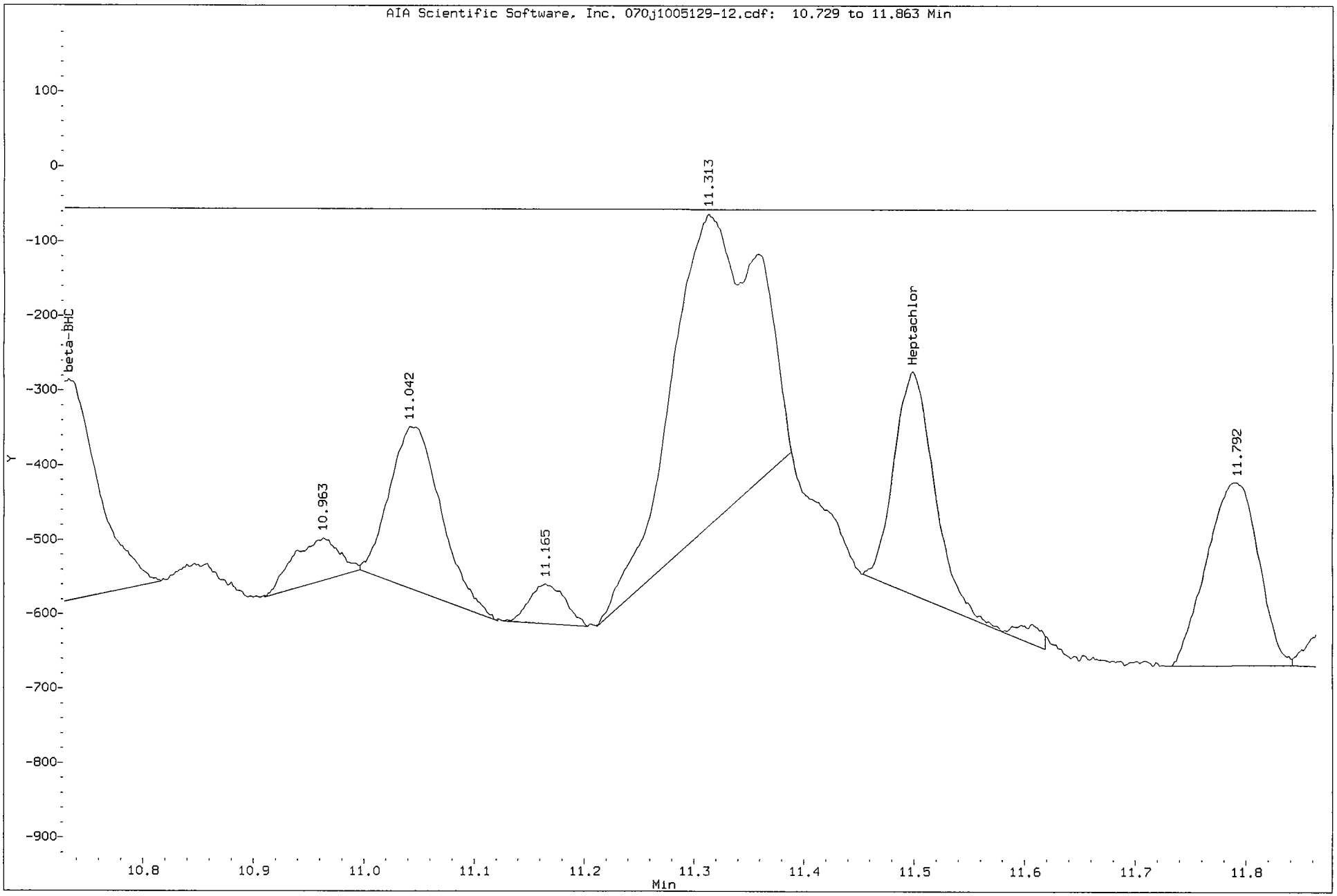
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.56		820								
22.69		4138								
22.99		915								
23.20		332								
23.66		1841								
23.88		251								
24.26		510								
24.75		1889								
24.91		231								
25.00		759								

Manually Integrated Peaks



Start: 11.46 Stop: 11.55

Data File: /chem/tracegc84.i/j100528d_2C.b/070j1005129-12.d/070j1005129-12.cdf
Injection Date: 30-MAY-2010 02:06
Instrument: tracegc84.i
Client Sample ID: SS52-0-1



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.3	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.3	U
319-86-8	delta-BHC	0.90	JP
58-89-9	gamma-BHC (Lindane)	0.95	JP
72-54-8	4,4'-DDD	2.0	JP
72-55-9	4,4'-DDE	4.4	U
50-29-3	4,4'-DDT	4.4	U
60-57-1	Dieldrin	4.4	U
959-98-8	Endosulfan I	1.2	JP
33213-65-9	Endosulfan II	4.4	U
1031-07-8	Endosulfan sulfate	20	
72-20-8	Endrin	3.5	JP
7421-93-4	Endrin Aldehyde	4.4	U
76-44-8	Heptachlor	0.48	J
1024-57-3	Heptachlor Epoxide	2.3	U
72-43-5	Methoxychlor	23	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	5.4	P
5103-74-2	gamma-Chlordane	1.1	JBP
5103-71-9	alpha-Chlordane	0.68	JP

Data File: /chem/tracegc84.i/j100528c.b/059j1005129-05.d

Date : 29-MAY-2010 20:49

Client ID: SS53-0-1

Instrument: tracegc84.i

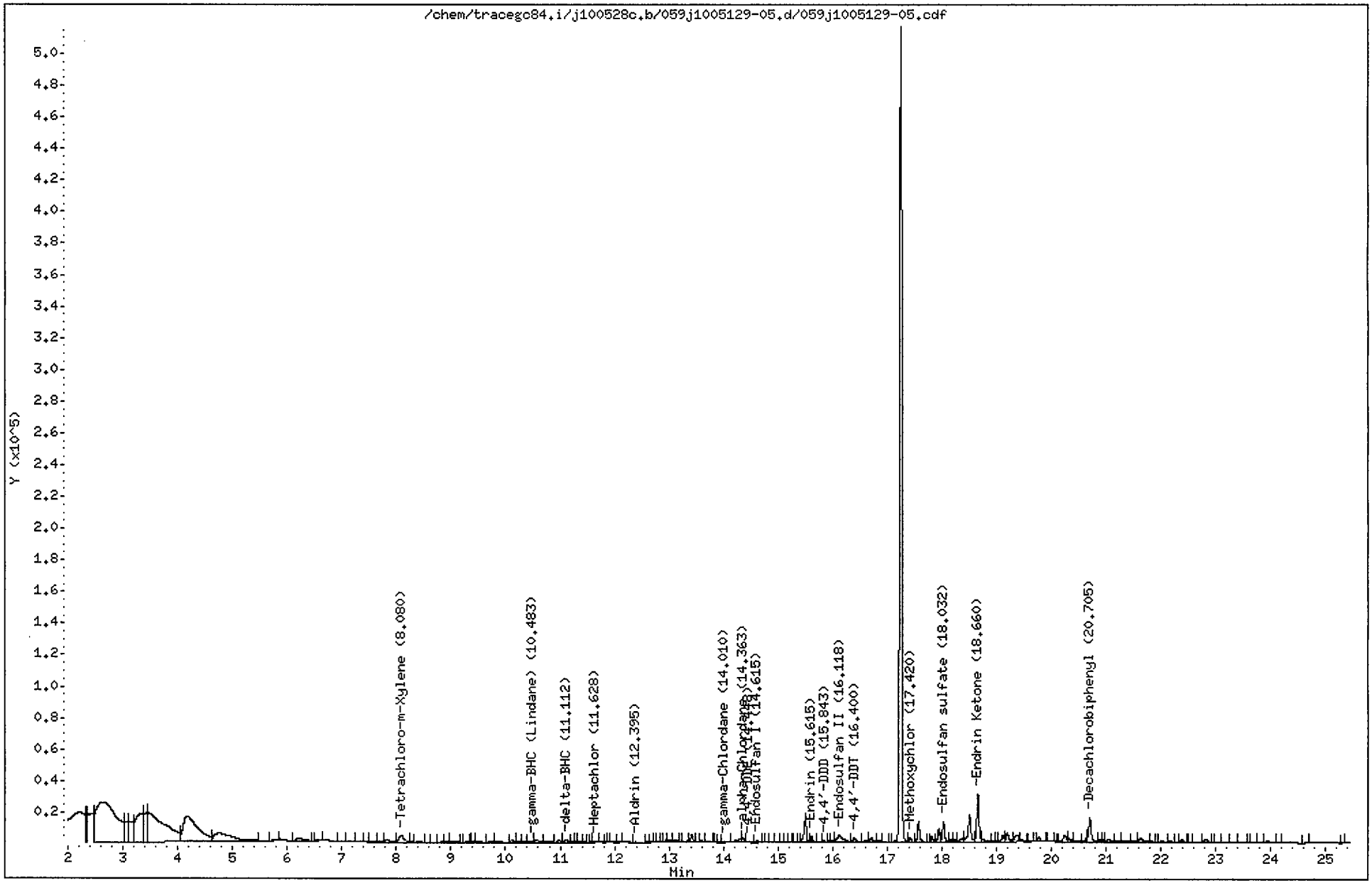
Sample Info: 1005129-05

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-05 Client Smp Id : SS53-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:49 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.14			443								
1.24			598								
2.21			636144								
2.34			45318								
2.43			128734								
2.62			654603								
3.04			66545								
3.12			82547								
3.35			182334								
3.44			66544								
3.46			421939								
4.18			303010								
4.74			109945								
5.83			942								
6.21			15643								
6.57			1245								
6.96			262								
7.36			1652								
7.43			2208								
7.55			4185								
7.74			3725								
7.82			10773								
8.08	8.01	8.15	28467	522758	Tetrachloro-m-Xylene	0.054454	12.10079		90.8	70 - 125	
8.28			1139								
8.42			3562								
8.60			306								
8.81			1294								
8.92			2879								
9.04			5616								
9.20			212								
9.30			1455								
9.35			592								
9.42			1292								
9.49			3982								
9.73			1696								
9.87			3770								
10.12			6385								

CompuChem

Lab Smp Id : 1005129-05 Client Smp Id : SS53-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:49 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.23		1738								
10.33		736								
10.48	10.36 10.50	3121	729192	gamma-BHC (Lindane)	0.004279	0.950823	2.266667			J
10.58		7851								
10.79		5007								
10.98		4809								
11.11	11.02 11.16	6658	689518	delta-BHC	0.009656	2.145784	2.266667			J
11.24		1029								
11.30		403								
11.36		2448								
11.46		142								
11.57		1529								
11.63	11.55 11.69	1946	695465	Heptachlor	0.002798	0.621806	2.266667			J
11.77		1063								
11.86		224								
11.94		804								
12.08		1449								
12.20		3384								
12.40	12.27 12.41	1354	636570	Aldrin	0.002125	0.472323	2.266667			J
12.60		635								
12.68		563								
12.79		876								
12.94		2030								
13.03		4562								
13.09		4012								
13.34		3664								
13.42		14961								
13.52		1705								
13.60		3127								
13.68		2653								
13.86		257								
13.92		448								
14.01	13.97 14.11	3001	594875	gamma-Chlordane	0.005043	1.120684	2.266667			J
14.30		11512								
14.36	14.27 14.41	8775	516712	alpha-Chlordane	0.016982	3.773859	2.266667			
14.45	14.45 14.59	3026	523741	4,4'-DDE	0.005776	1.283501	4.400000			J
14.62	14.57 14.71	3030	548162	Endosulfan I	0.005526	1.227941	2.266667			J

CompuChem

Lab Smp Id : 1005129-05 Client Smp Id : SS53-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:49 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.80		987								
14.87		1062								
15.00		1319								
15.07		939								
15.15		848								
15.21		1135								
15.27		577								
15.31		874								
15.39		407								
15.50		49894								
15.62	15.61 15.75	11160	463071	Endrin	0.024098	5.355067	4.400000			
15.77		1625								
15.84	15.75 15.89	3483	393458	4,4'-DDD	0.008850	1.966611	4.400000			J
15.93		2417								
15.99		3074								
16.12	16.09 16.23	34718	450326	Endosulfan II	0.077093	17.13178	4.400000			
16.40	16.35 16.49	11453	454781	4,4'-DDT	0.025181	5.595853	4.400000			
16.61		4757								
16.66		1372								
16.71		10761								
16.86		3485								
16.94		2017								
17.06		391								
17.25		1486622								
17.42	17.37 17.51	8377	194359	Methoxychlor	0.043101	9.577923	22.66667			J
17.57		36238								
17.82		9962								
17.94		21961								
18.03	17.93 18.07	36926	392055	Endosulfan sulfate	0.094186	20.93017	4.400000			
18.16		6134								
18.24		4462								
18.37		10670								
18.51		63595								
18.66	18.53 18.67	88182	457258	Endrin Ketone	0.192850	42.85550	4.400000			EM
18.73		8897								
18.95		1235								
19.01		746								

2nd Hett 6/3/10

CompuChem

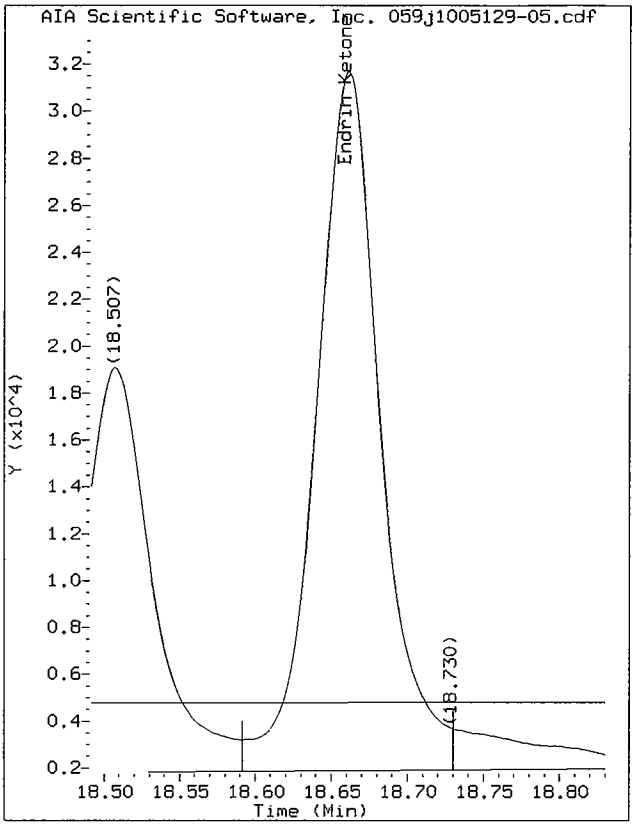
Lab Smp Id : 1005129-05 Client Smp Id : SS53-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:49 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

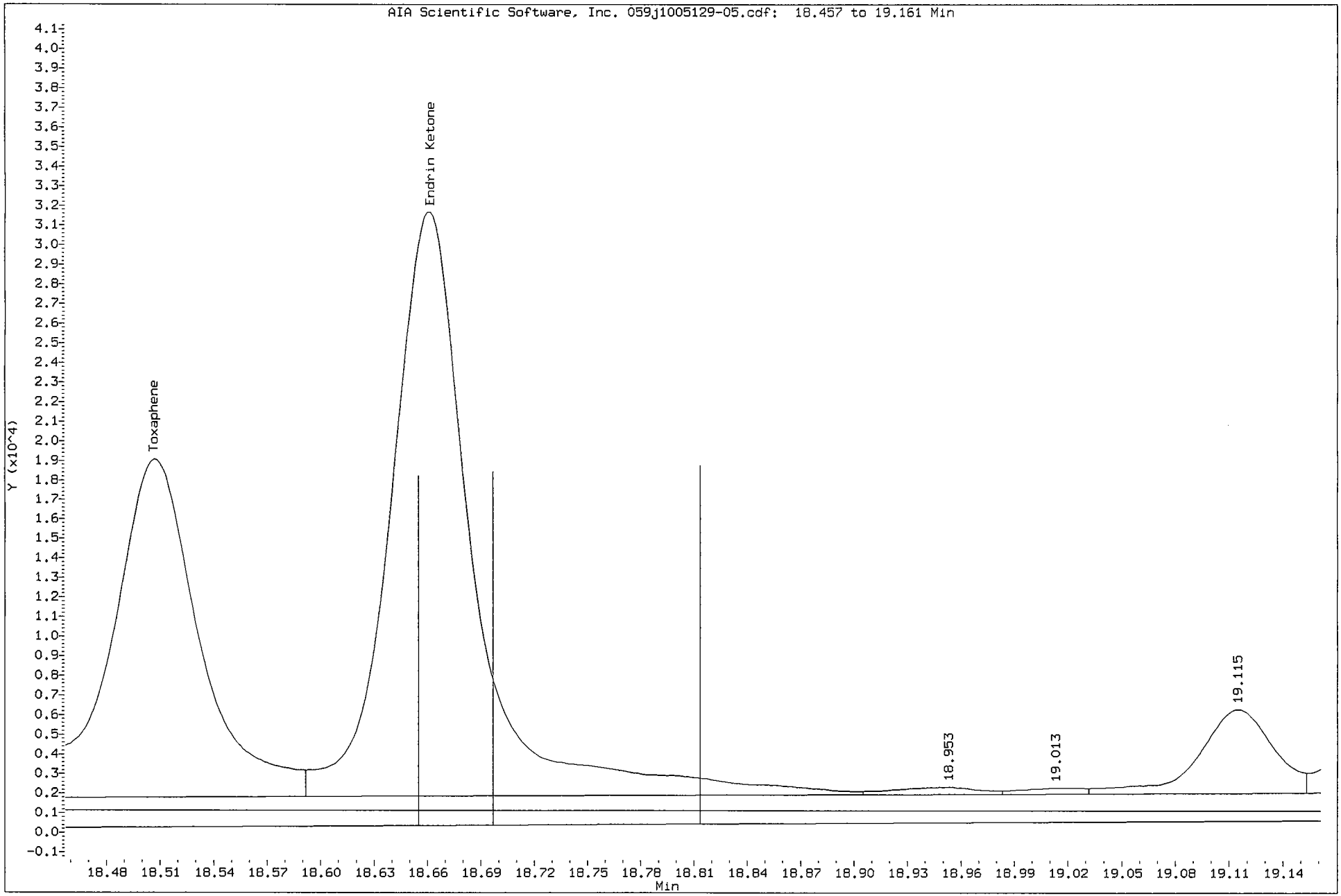
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.11		12381								
19.20		18596								
19.38		20819								
19.46		4495								
19.65		573								
19.72		1326								
19.77		8145								
19.97		1574								
20.13		176								
20.24		16003								
20.32		8853								
20.43		4025								
20.64		7501								
20.70	20.63 20.77	48748	408350	Decachlorobiphenyl	0.119378	26.52844		99.5	55 - 130	
20.89		4642								
20.94		2678								
21.05		7728								
21.23		2515								
21.32		4235								
21.53		2675								
21.64		11684								
21.84		796								
22.02		1520								
22.18		1522								
22.27		299								
22.38		3987								
22.56		224								
22.82		6601								
23.04		859								
23.35		1281								
23.48		1153								
23.68		330								
23.95		4866								
24.17		487								
24.65		1026								
25.35		157								

Manually Integrated Peaks



Start: 18.59 Stop: 18.73

Data File: /chem/tracegc84.i/j100528c.b/059j1005129-05.d/059j1005129-05.cdf
Injection Date: 29-MAY-2010 20:49
Instrument: tracegc84.i
Client Sample ID: SS53-0-1



Data File: /chem/tracegc84.i/j100528c_2C.b/059j1005129-05.d

Date : 29-MAY-2010 20:49

Client ID: SS53-0-1

Instrument: tracegc84.i

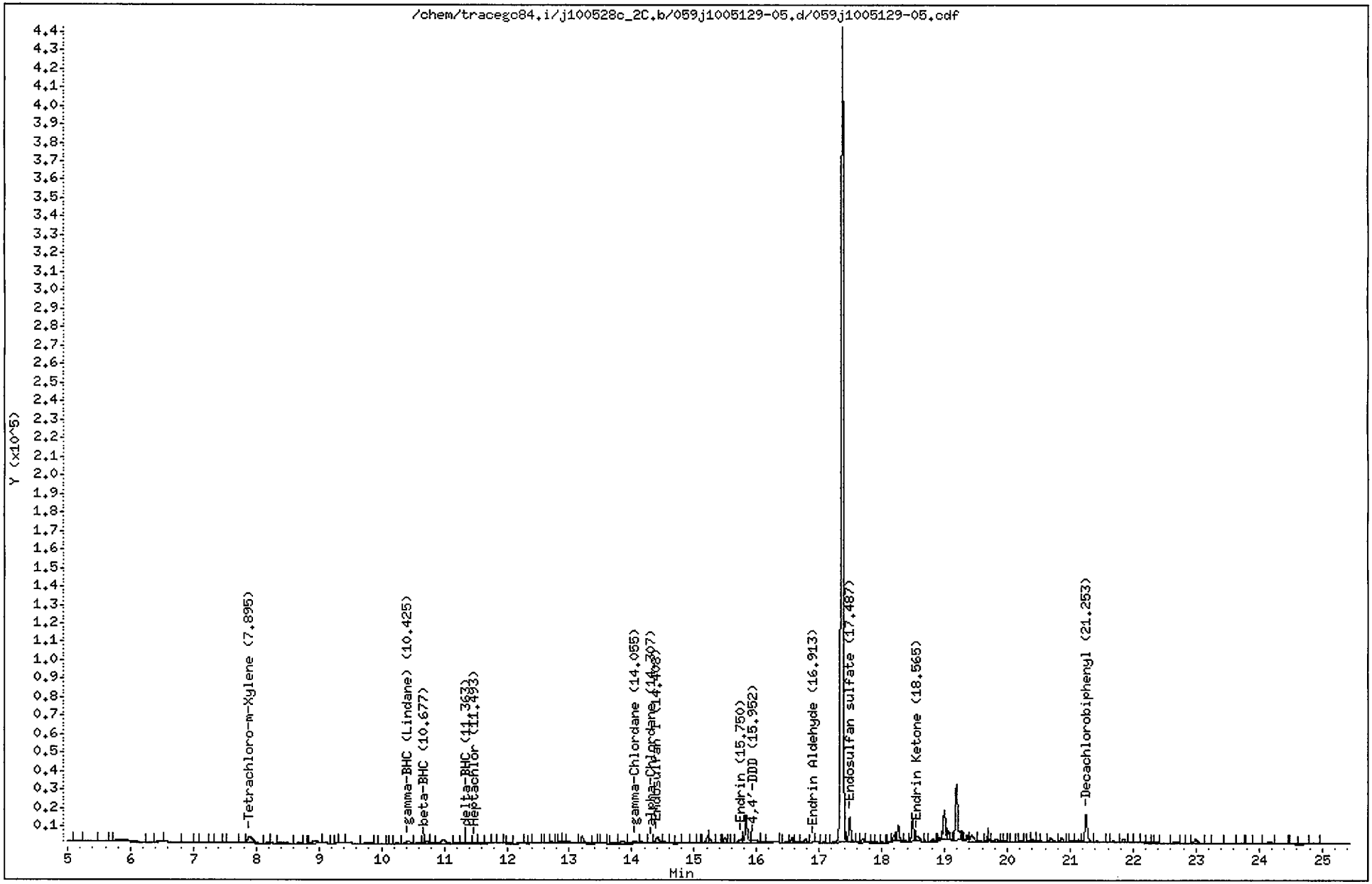
Sample Info: 1005129-05

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-05 Client Smp Id : SS53-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:49 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.11			209								
1.27			521								
2.08			57283								
2.25			13343								
2.68			4279								
2.94			148								
2.98			1933								
3.06			41928								
3.72			138378								
4.27			16581								
5.20			1216								
5.59			1317								
5.85			14594								
6.45			854								
6.92			1500								
7.15			473								
7.39			1338								
7.51			481								
7.58			2770								
7.78			1136								
7.90	7.82	7.96	19557	416798	Tetrachloro-m-Xylene	0.046920	10.42659		78.2	70 - 125	
8.21			1232								
8.41			3632								
8.68			946								
8.78			176								
8.94			7566								
9.21			146								
9.40			283								
9.76			1235								
9.99			916								
10.16			272								
10.24			2331								
10.42	10.39	10.53	7911	585542	gamma-BHC (Lindane)	0.013511	3.002344	2.266667			
10.57			2370								
10.68	10.63	10.77	1557	248610	beta-BHC	0.006263	1.391738	1.134667			
10.72			4452								
10.80			1276								

CompuChem

Lab Smp Id : 1005129-05 Client Smp Id : SS53-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:49 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.97		13353								
11.19		1814								
11.30		1037								
11.36	11.33 11.47	2231	551235	delta-BHC	0.004045	0.898991	2.266667			J
11.49	11.45 11.59	1250	579497	Heptachlor	0.002155	0.478959	2.266667			J
11.59		979								
11.72		1386								
11.79		963								
11.87		506								
11.97		309								
12.03		818								
12.19		1045								
12.30		227								
12.37		1222								
12.45		2091								
12.67		853								
12.72		2356								
12.80		1070								
12.87		3661								
12.91		3978								
12.98		5399								
13.20		11920								
13.42		600								
13.47		176								
13.52		1091								
13.72		2448								
13.83		5914								
14.06	13.95 14.09	8076	513150	gamma-Chlordane	0.015736	3.496920	2.266667			
14.15		3422								
14.31	14.28 14.42	1364	446248	alpha-Chlordane	0.003054	0.678746	2.266667			J
14.41	14.39 14.53	12594	477982	Endosulfan I	0.026348	5.855166	2.266667			
14.52		2032								
14.64		1932								
14.74		591								
14.85		606								
14.98		1682								
15.07		103								

CompuChem

Lab Smp Id : 1005129-05 Client Smp Id : SS53-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:49 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.21		9017								
15.25		5459								
15.37		458								
15.49		7250								
15.58		126								
15.62		303								
15.75	15.65 15.79	6437	408649	Endrin	0.015749	3.499882	4.400000			J
15.84		37602								
15.95	15.91 16.05	9764	340626	4,4'-DDD	0.028665	6.369966	4.400000			
16.09		1109								
16.26		4663								
16.47		1092								
16.57		5566								
16.65		1034								
16.78		6944								
16.91	16.83 16.97	708	316985	Endrin Aldehyde	0.002234	0.496343	4.400000			J
17.06		552								
17.12		282								
17.37		1205441								
17.49	17.42 17.56	32939	366674	Endosulfan sulfate	0.089829	19.96204	4.400000			
17.60		519								
17.69		4144								
17.76		632								
17.84		467								
17.92		1036								
18.01		892								
18.12		556								
18.20		7121								
18.26		20461								
18.37		896								
18.49		25038								
18.56	18.56 18.70	10182	419519	Endrin Ketone	0.024271	5.393482	4.400000			
18.70		1012								
18.82		3260								
18.93		2682								
19.00		39915								
19.07		11559								

6/5/10

CompuChem

Lab Smp Id : 1005129-05 Client Smp Id : SS53-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:49 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.19		81350								
19.36		7531								
19.43		11717								
19.54		1339								
19.69		3003								
19.82		5411								
19.92		491								
19.97		479								
20.01		193								
20.13		377								
20.16		395								
20.23		1345								
20.29		449								
20.37		1990								
20.41		3488								
20.48		1899								
20.54		864								
20.69		8691								
20.86		6299								
20.96		276								
21.03		2730								
21.13		3635								
21.25	21.18 21.32	44168	406698	Decachlorobiphenyl	0.108602	24.13369		90.5	55 - 130	
21.42		3446								
21.61		483								
21.68		3119								
21.85		5485								
21.95		830								
22.07		620								
22.15		114								
22.24		377								
22.36		234								
22.68		1362								
22.88		309								
23.00		7187								
23.18		741								
23.31		649								

CompuChem

Lab Smp Id : 1005129-05 Client Smp Id : SS53-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 20:49 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.71		325								
23.84		224								
23.97		1016								
24.18		3870								
24.31		767								
24.54		564								
24.74		758								
24.88		687								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-05RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	11	U
319-85-7	beta-BHC	5.7	U
319-84-6	alpha-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
72-54-8	4,4'-DDD	22	U
72-55-9	4,4'-DDE	22	U
50-29-3	4,4'-DDT	22	U
60-57-1	Dieldrin	22	U
959-98-8	Endosulfan I	11	U
33213-65-9	Endosulfan II	22	U
1031-07-8	Endosulfan sulfate	21	DJP
72-20-8	Endrin	22	U
7421-93-4	Endrin Aldehyde	22	U
76-44-8	Heptachlor	11	U
1024-57-3	Heptachlor Epoxide	11	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	550	U
53494-70-5	Endrin Ketone	22	U
5103-74-2	gamma-Chlordane	11	U
5103-71-9	alpha-Chlordane	3.6	DJ

FORM I PEST

Data File: /chem/tracegc84.i/j100528o.b/165j1005129-05.d

Date : 03-JUN-2010 17:28

Client ID: SS53-0-1DL

Sample Info: 1005129-05RE1

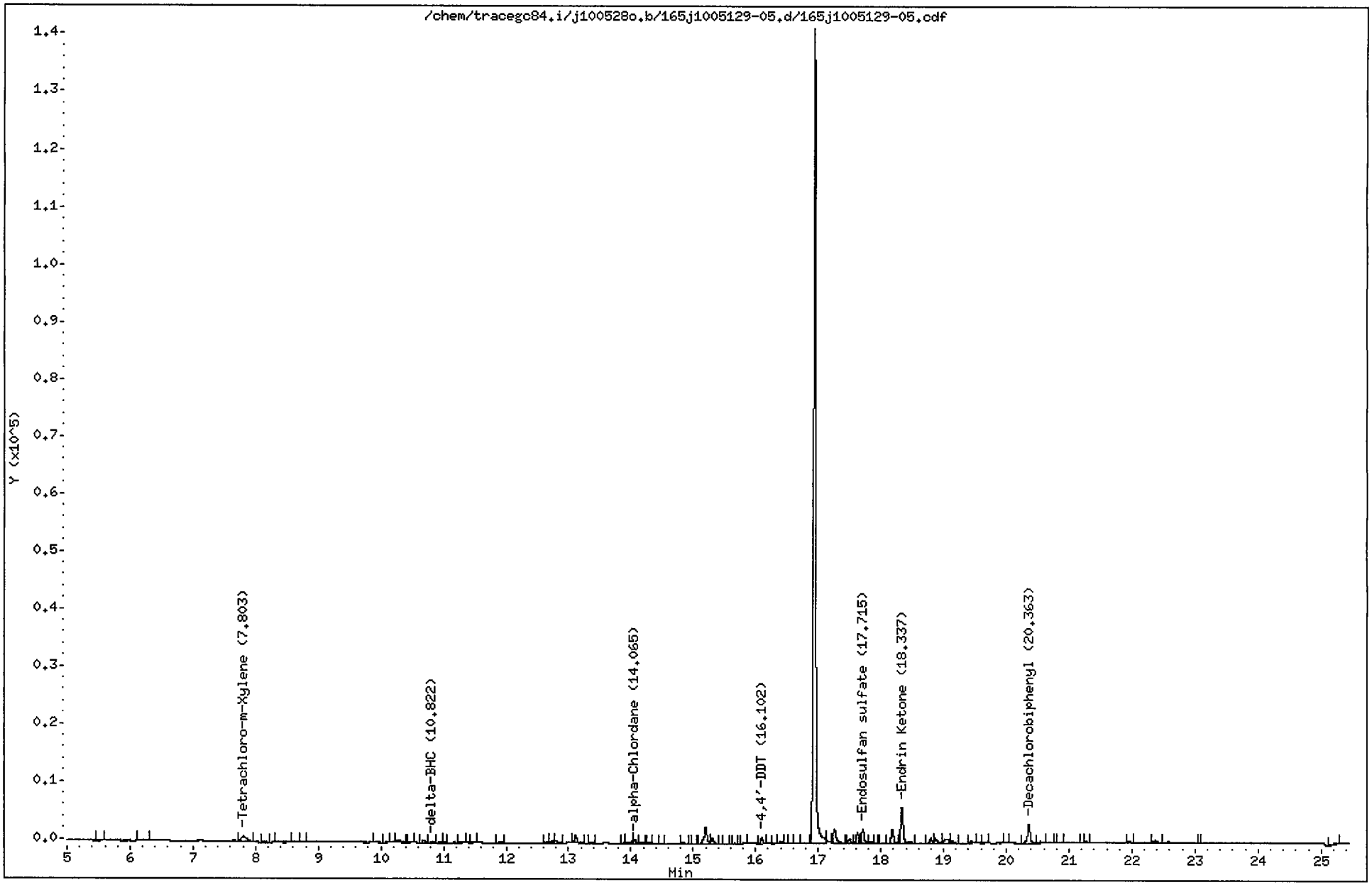
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-05RE1 Client Smp Id : SS53-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:28 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS53-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.35		127								
1.46		28240								
2.07		9653								
2.41		4719								
4.01		199								
4.54		773								
5.58		330								
6.26		407								
7.80	7.77 7.91	4648	522758	Tetrachloro-m-Xylene	0.008889	9.877110		74.1	70 - 125	
8.15		720								
8.30		125								
8.64		326								
8.78		147								
9.95		439								
10.19		312								
10.28		1335								
10.49		208								
10.69		1508								
10.82	10.77 10.91	870	689518	delta-BHC	0.001260	1.400335	11.33333			J
10.95		421								
11.01		256								
11.28		424								
11.50		171								
11.91		384								
12.64		414								
12.74		931								
12.79		1751								
13.11		3601								
13.37		563								
13.89		245								
14.03		1474								
14.06	14.00 14.14	1655	516712	alpha-Chlordane	0.003201	3.556674	11.33333			J
14.16		491								
14.30		402								
14.48		187								
14.84		395								
15.01		219								

6/3/10

CompuChem

Lab Smp Id : 1005129-05RE1 Client Smp Id : SS53-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:28 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS53-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.20		8822								
15.31		2175								
15.51		148								
15.67		122								
15.84		346								
16.10	16.08 16.22	2264	454781	4,4'-DDT	0.004978	5.531353	22.00000			J
16.30		310								
16.41		834								
16.55		410								
16.64		240								
16.94		341905								
17.26		9775								
17.50		2741								
17.63		5116								
17.71	17.65 17.79	7279	392055	Endosulfan sulfate	0.018566	20.62919	22.00000			J
17.84		1169								
17.92		435								
18.05		337								
18.18		6328								
18.34	18.24 18.38	16959	457258	Endrin Ketone	0.037089	41.20946	22.00000			
18.80		2139								
18.87		2902								
19.06		3712								
19.14		1350								
19.45		1085								
19.65		403								
20.00		163								
20.36	20.33 20.47	10958	408350	Decachlorobiphenyl	0.026835	29.81647		111.8	55 - 130	
20.54		1439								
20.70		769								
20.86		188								
21.21		157								
21.27		385								
21.94		623								
22.37		1353								
23.07		134								
25.27		922								

Data File: /chem/tracegc84.i/j100528o_2C.b/165jcdf1005129-05.d

Date : 03-JUN-2010 17:28

Client ID: SS53-0-1DL

Instrument: tracegc84.i

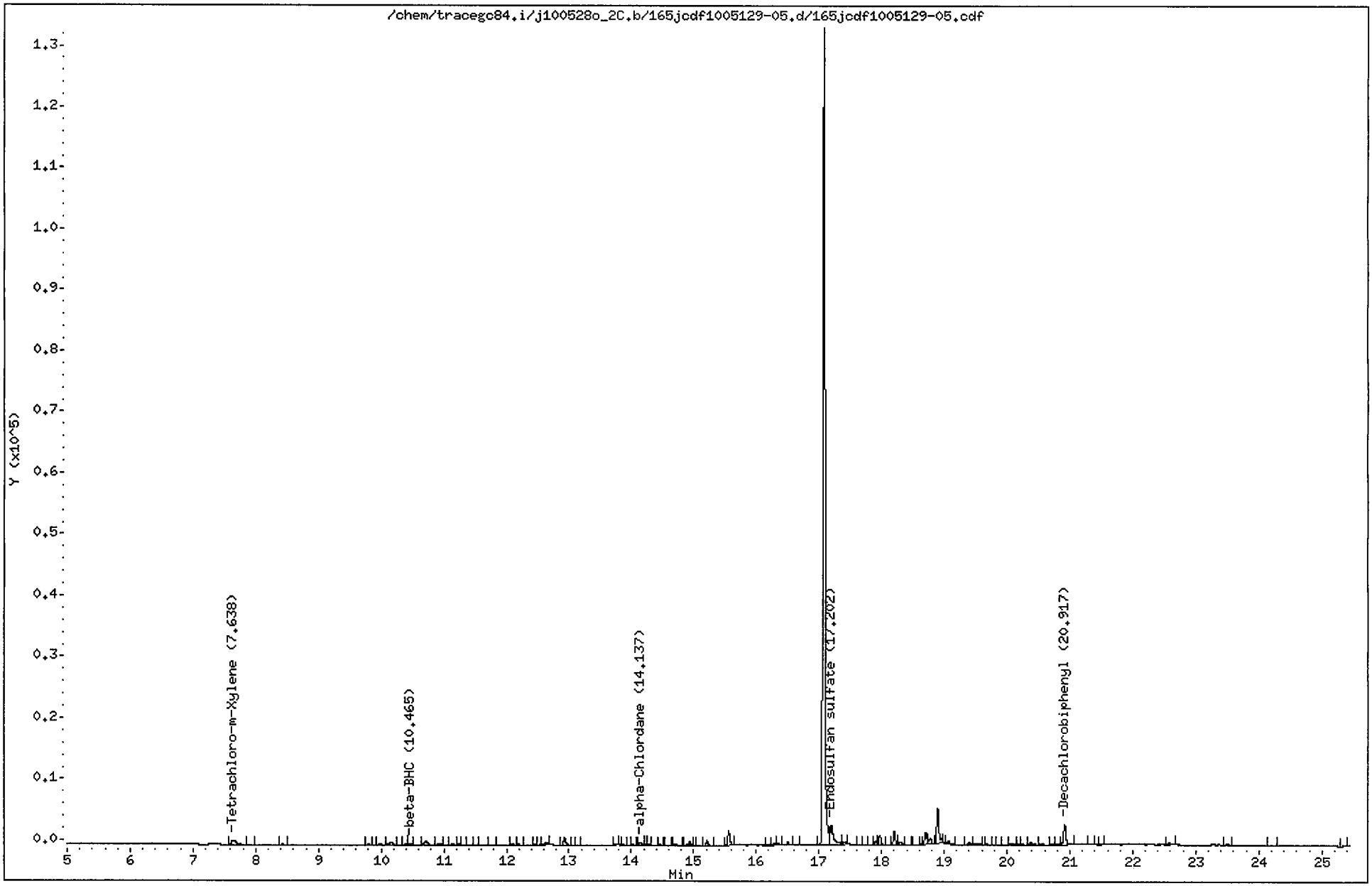
Sample Info: 1005129-05RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-05RE1 Client Smp Id : SS53-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:28 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.88		18858								
3.32		111								
4.13		300								
7.64	7.61 7.75	4007	416798	Tetrachloro-m-Xylene	0.009611	10.67931		80.1	70 - 125	
7.94		191								
8.43		186								
9.80		184								
9.99		437								
10.16		1556								
10.41		364								
10.46	10.41 10.55	601	248610	beta-BHC	0.002417	2.686046	5.673333			J
10.71		2423								
10.93		545								
11.03		125								
11.13		471								
11.24		203								
11.32		207								
11.52		91								
11.76		113								
12.10		274								
12.19		257								
12.46		93								
12.64		1009								
12.93		3380								
13.13		123								
13.76		104								
13.87		265								
14.03		294								
14.14	14.04 14.18	1458	446248	alpha-Chlordane	0.003265	3.627783	11.33333			JM2
14.23		495								
14.28		195								
14.35		150								
14.46		180								
14.59		176								
14.71		430								
14.94		1717								
15.09		194								

6/4/10

CompuChem

Lab Smp Id : 1005129-05RE1 Client Smp Id : SS53-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:28 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.22		1770								
15.56		5483								
16.18		174								
16.29		894								
16.36		857								
16.51		1132								
16.63		349								
17.08		305806								
17.20	17.17 17.31	12520	366674	Endosulfan sulfate	0.034142	37.93563	22.00000			
17.41		983								
17.63		192								
17.73		154								
17.84		93								
17.91		1339								
17.97		3859								
18.09		153								
18.20		5075								
18.30		1913								
18.41		234								
18.55		111								
18.64		113								
18.70		4692								
18.78		2358								
18.89		14840								
19.07		1074								
19.40		1126								
19.54		580								
19.68		465								
19.87		103								
19.94		97								
20.07		518								
20.19		118								
20.39		1207								
20.55		524								
20.71		268								
20.80		261								
20.92	20.90 21.04	8707	406698	Decachlorobiphenyl	0.021409	23.78781		89.2	55 - 130	

CompuChem

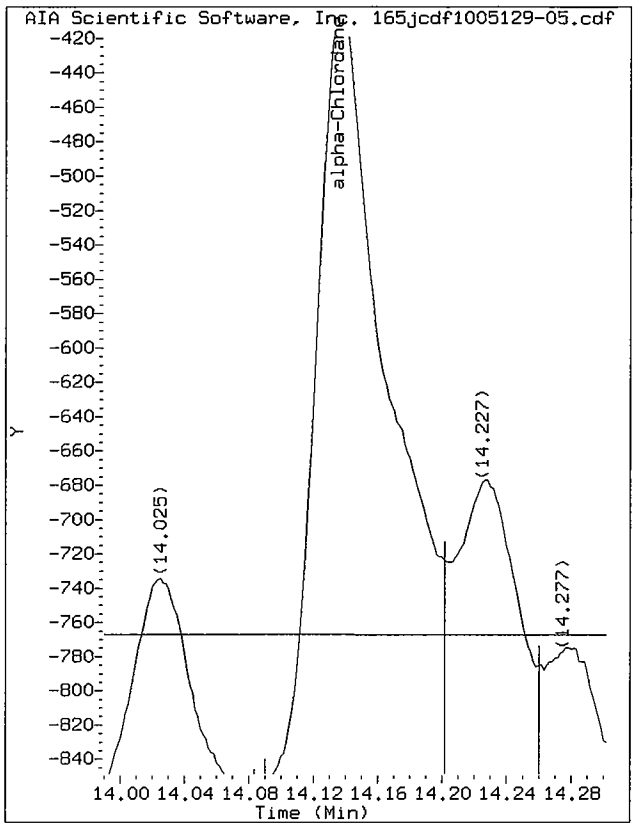
Lab Smp Id : 1005129-05RE1 Client Smp Id : SS53-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:28 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

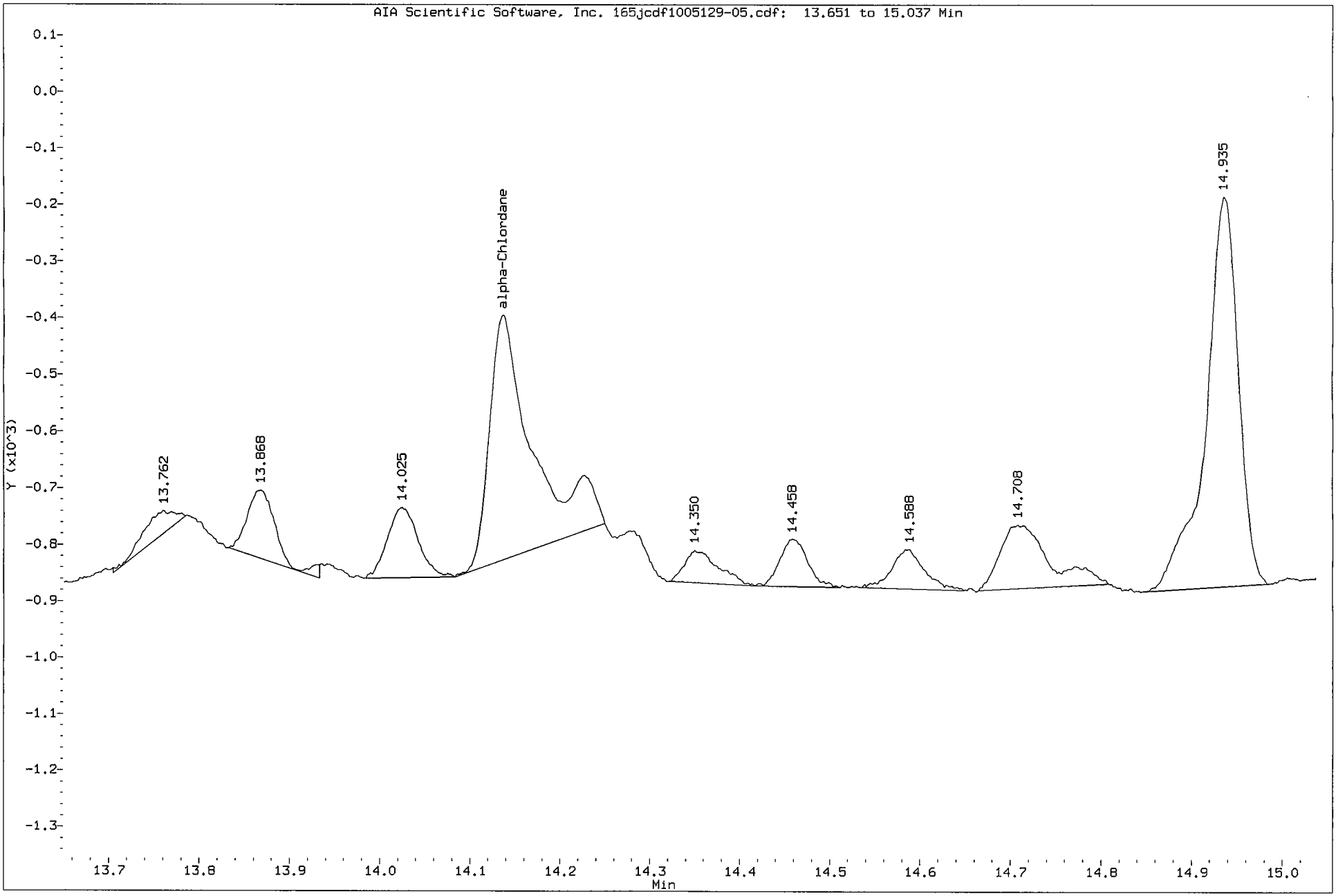
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.33		254								
21.51		121								
22.58		864								
23.50		212								
24.27		217								
25.38		267								

Manually Integrated Peaks



Start: 14.09 Stop: 14.20

Data File: /chem/tracegc84.i/j100528o_2C.b/165jcdf1005129-05.d/165jcdf1005129-05.cdf
Injection Date: 03-JUN-2010 17:28
Instrument: tracegc84.i
Client Sample ID: SS53-0-1DL



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS54-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.48	JP
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	J
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	0.53	JP
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	0.46	JP
959-98-8	Endosulfan I	1.1	J
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	2.0	J
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	0.19	JP
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	0.36	JBP
5103-71-9	alpha-Chlordane	0.82	JP

Data File: /chem/tracegc84.i/j100528c.b/057j1005129-03.d

Date : 29-MAY-2010 19:51

Client ID: SS54-0-1

Instrument: tracegc84.i

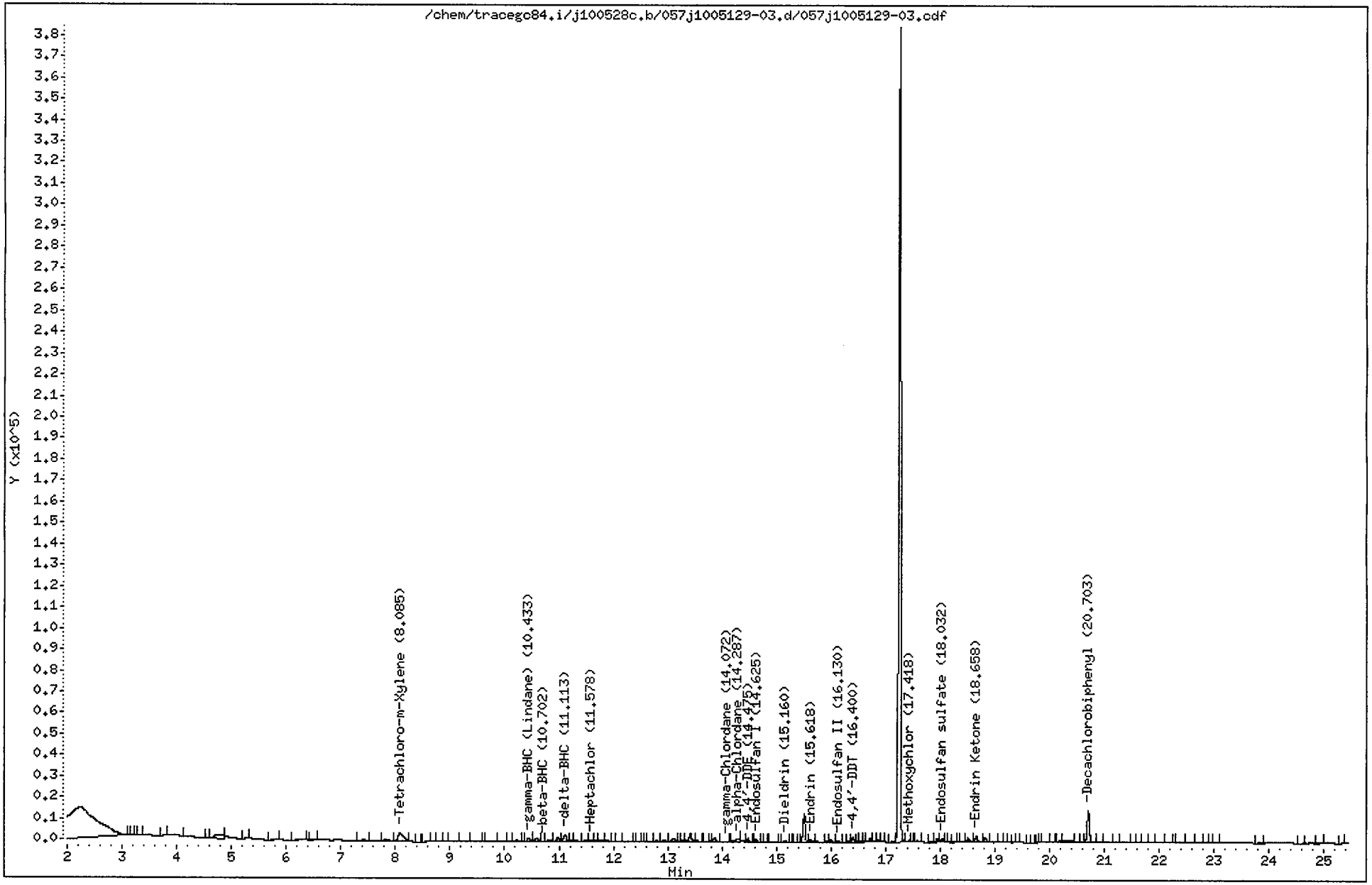
Sample Info: 1005129-03

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-03 Client Smp Id : SS54-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:51 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS54-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57			285721								
2.21			534409								
3.14			655								
3.20			816								
3.26			254								
3.32			548								
3.83			713								
4.17			1969								
4.75			22180								
5.29			596								
5.84			632								
6.23			2285								
6.55			304								
7.40			1583								
7.83			2435								
8.08	8.01	8.15	25111	522758	Tetrachloro-m-Xylene	0.048034	8.701765		80.1	70 - 125	
8.45			385								
8.59			658								
8.83			301								
9.06			1667								
9.49			1686								
9.76			1591								
10.09			308								
10.23			2173								
10.43	10.36	10.50	7196	729192	gamma-BHC (Lindane)	0.009867	1.787514	1.847826			J
10.59			7096								
10.70	10.59	10.73	792	300532	beta-BHC	0.002632	0.476811	0.925000			J
10.83			4574								
10.98			7084								
11.11	11.02	11.16	12000	689518	delta-BHC	0.017402	3.152541	1.847826			
11.23			2201								
11.30			3838								
11.48			2539								
11.58	11.55	11.69	3280	695465	Heptachlor	0.004715	0.854136	1.847826			J
11.67			1671								
11.76			2597								
11.87			2532								

6/3/10

CompuChem

Lab Smp Id : 1005129-03 Client Smp Id : SS54-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:51 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS54-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.00		458								
12.10		628								
12.21		1648								
12.46		350								
12.59		173								
12.68		451								
12.79		1235								
12.94		2640								
13.10		5573								
13.27		254								
13.42		11130								
13.55		910								
13.71		649								
13.87		4993								
14.09	13.97 14.11	1177	594875	gamma-Chlordane	0.001979	0.358436	1.847826			J
14.30	14.27 14.41	8446	516712	alpha-Chlordane	0.016346	2.961168	1.847826			
14.48	14.45 14.59	4604	523741	4,4'-DDE	0.008791	1.592500	3.586957			J
14.62	14.57 14.71	3256	548162	Endosulfan I	0.005940	1.076059	1.847826			J
14.81		478								
14.91		581								
15.16	15.10 15.24	2518	515556	Dieldrin	0.004884	0.884791	3.586957			J
15.26		353								
15.33		318								
15.40		195								
15.50		35358								
15.62	15.61 15.75	3564	463071	Endrin	0.007696	1.394283	3.586957			J
15.91		812								
15.99		4977								
16.13	16.09 16.23	2164	450326	Endosulfan II	0.004805	0.870544	3.586957			J
16.25		174								
16.31		1344								
16.40	16.35 16.49	5395	454781	4,4'-DDT	0.011861	2.148668	3.586957			J
16.48		279								
16.55		1800								
16.61		963								
16.71		4060								
16.78		597								

CompuChem

Lab Smp Id : 1005129-03 Client Smp Id : SS54-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:51 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS54-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.86		2004								
16.94		388								
17.14		2119								
17.25		983924								
17.42		2419								
17.45		572								
17.58		1423								
17.83		1097								
17.95		4228								
18.03	17.93 18.07	4372	392055	Endosulfan sulfate	0.011149	2.019737	3.586957			JM
18.09		867								
18.14		882								
18.27		252								
18.33		163								
18.51		5686								
18.66	18.53 18.67	9689	457258	Endrin Ketone	0.021187	3.838258	3.586957			
18.82		5724								
19.12		495								
19.19		427								
19.35		1250								
19.41		1717								
19.46		2060								
19.73		164								
19.79		202								
19.97		878								
20.03		1295								
20.19		1257								
20.34		5606								
20.59		330								
20.70	20.63 20.77	44454	408350	Decachlorobiphenyl	0.108860	19.72102		90.7	55 - 130	
20.89		775								
21.04		1123								
21.21		467								
21.52		220								
21.61		194								
21.87		245								
22.18		1723								

JM 6/3/10

CompuChem

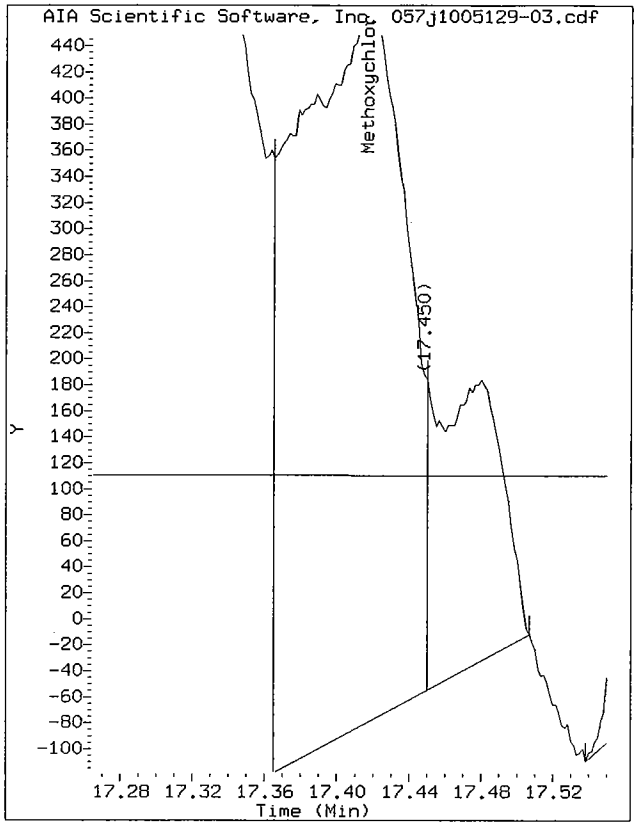
Lab Smp Id : 1005129-03 Client Smp Id : SS54-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:51 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS54-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

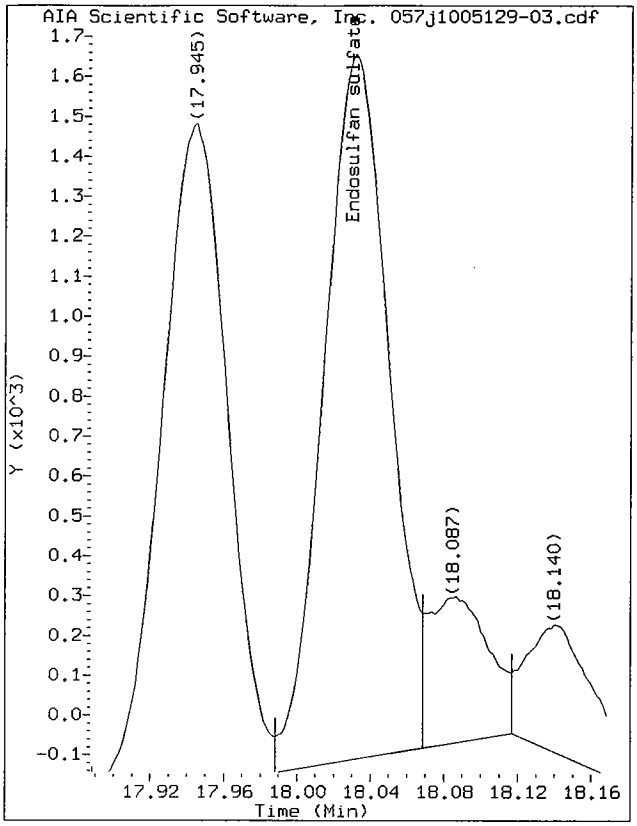
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.39		1175								
22.56		774								
22.84		343								
23.04		569								
23.82		625								
24.63		209								
24.92		574								
25.35		145								

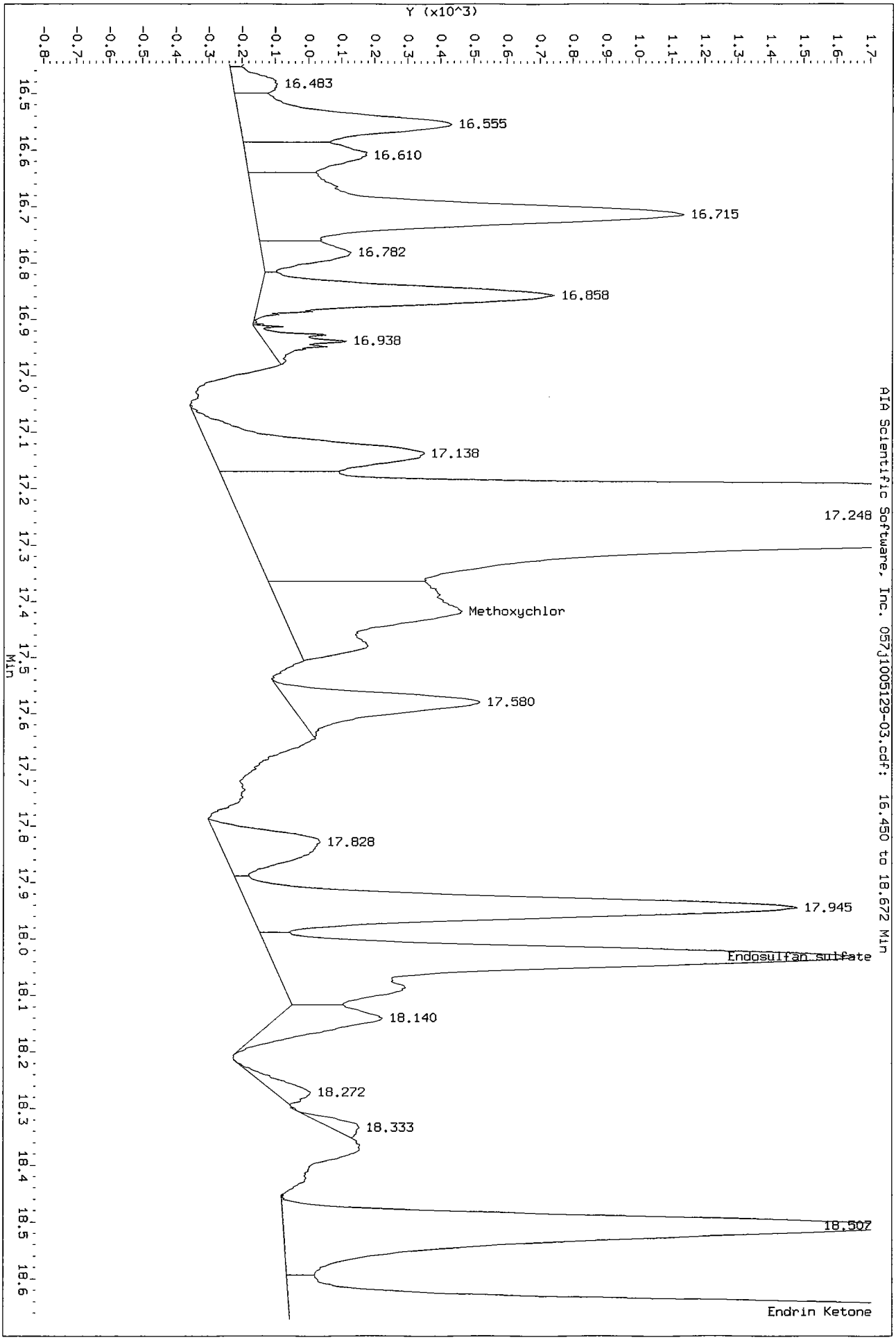
Manually Integrated Peaks



Start: 17.36 Stop: 17.45



Start: 17.99 Stop: 18.07


Data File: /chem/tracegc84.i/j100528c.b/057j1005129-03.d/057j1005129-03.cdf
Injection Date: 29-MAY-2010 19:51
Instrument: tracegc84.i
Client Sample ID: SS54-0-1
Y (x10^3)
16.483
16.555
16.610
16.715
16.782
16.858
16.938
17.138
17.248
Methoxychlor
17.580
17.828
17.945
Endosulfan sulfate
18.140
18.272
18.333
18.507
Endrin Ketone
AIA Scientific Software, Inc. 057j1005129-03.cdf: 16.450 to 18.672 Min
Min

Data File: /chem/tracegc84.i/j100528c_2C.b/057j1005129-03.d

Date : 29-MAY-2010 19:51

Client ID: SS54-0-1

Instrument: tracegc84.i

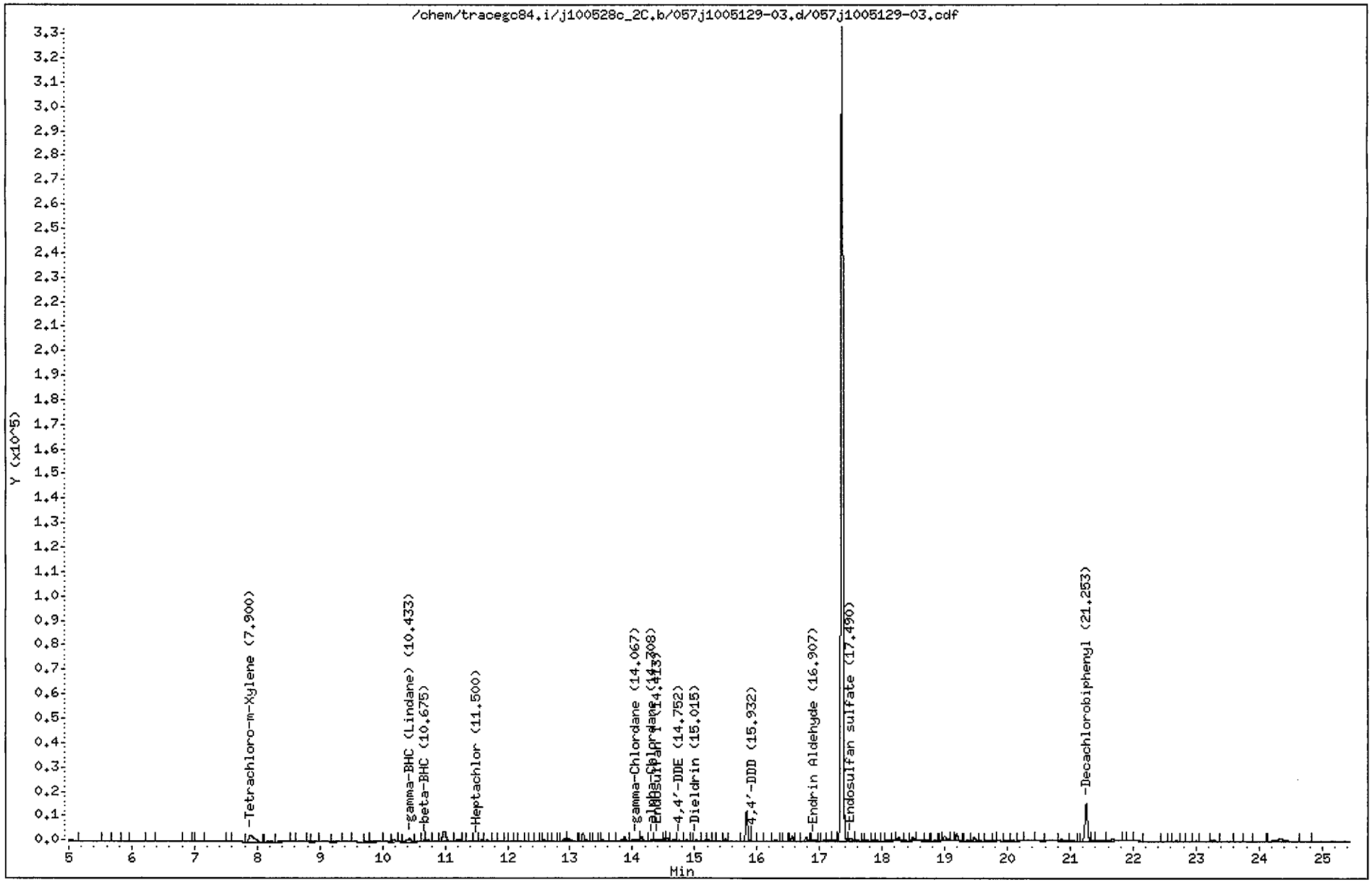
Sample Info: 1005129-03

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-03 Client Smp Id : SS54-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:51 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS54-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57			79246								
2.00			27529								
3.14			8358								
4.29			4637								
4.33			13395								
5.00			2334								
5.62			468								
5.92			542								
6.28			427								
6.88			614								
7.09			337								
7.56			129								
7.90	7.82	7.96	18797	416798	Tetrachloro-m-Xylene	0.045099	8.170043		75.2	70 - 125	
8.21			1049								
8.39			1049								
8.68			573								
8.93			489								
9.28			739								
9.42			642								
9.75			178								
9.88			982								
10.06			1117								
10.19			2935								
10.26			867								
10.43	10.39	10.53	7084	585542	gamma-BHC (Lindane)	0.012098	2.191700	1.847826			
10.58			264								
10.68	10.63	10.77	1420	248610	beta-BHC	0.005708	1.034010	0.925000			
10.72			2467								
10.85			631								
10.99			18421								
11.21			3299								
11.30			577								
11.37			389								
11.50	11.45	11.59	613	579497	Heptachlor	0.001056	0.191320	1.847826			J
11.59			1098								
11.67			1447								
11.79			400								

CompuChem

Lab Smp Id : 1005129-03 Client Smp Id : SS54-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:51 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS54-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.88		708								
11.98		307								
12.04		269								
12.20		359								
12.40		226								
12.47		277								
12.59		843								
12.73		229								
12.91		3708								
12.98		3580								
13.21		9532								
13.34		94								
13.41		420								
13.52		1066								
13.70		376								
13.87		6464								
14.07	13.95 14.09	5132	513150	gamma-Chlordane	0.010001	1.811771	1.847826			J
14.15		5424								
14.31	14.28 14.42	2027	446248	alpha-Chlordane	0.004542	0.822884	1.847826			J
14.41	14.39 14.53	3476	477982	Endosulfan I	0.007270	1.317054	1.847826			J
14.52		2623								
14.56		2747								
14.66		1775								
14.75	14.67 14.81	1375	468602	4,4'-DDE	0.002934	0.531568	3.586957			J
14.87		1429								
15.02	14.99 15.13	1179	461929	Dieldrin	0.002550	0.461989	3.586957			J
15.17		823								
15.21		1406								
15.30		180								
15.38		305								
15.49		2460								
15.84		28944								
15.93	15.91 16.05	807	340626	4,4'-DDD	0.002366	0.428665	3.586957			J
16.03		445								
16.31		2184								
16.43		274								
16.57		4300								

CompuChem

Lab Smp Id : 1005129-03 Client Smp Id : SS54-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:51 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS54-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.64		287								
16.79		4301								
16.91	16.83 16.97	915	316985	Endrin Aldehyde	0.002887	0.522930	3.586957			J
17.07		682								
17.14		1658								
17.26		2377								
17.36		810229								
17.49	17.42 17.56	4163	366674	Endosulfan sulfate	0.011353	2.056778	3.586957			JM2
17.56		591								
17.69		303								
17.76		580								
17.85		396								
17.92		609								
18.00		199								
18.09		1032								
18.20		558								
18.27		3475								
18.37		232								
18.49		3137								
18.58		748								
18.70		496								
18.86		1060								
18.93		141								
19.00		5511								
19.19		7401								
19.36		838								
19.47		4396								
19.57		133								
19.68		980								
19.83		404								
19.98		1051								
20.09		585								
20.21		562								
20.36		1083								
20.48		493								
20.86		2539								
21.04		1256								

6/3/10

CompuChem

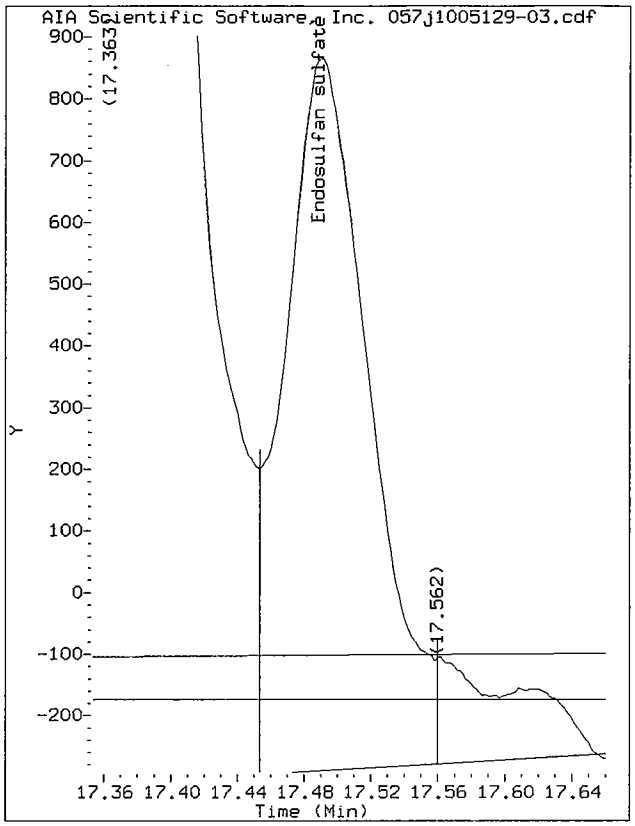
Lab Smp Id : 1005129-03 Client Smp Id : SS54-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 19:51 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS54-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

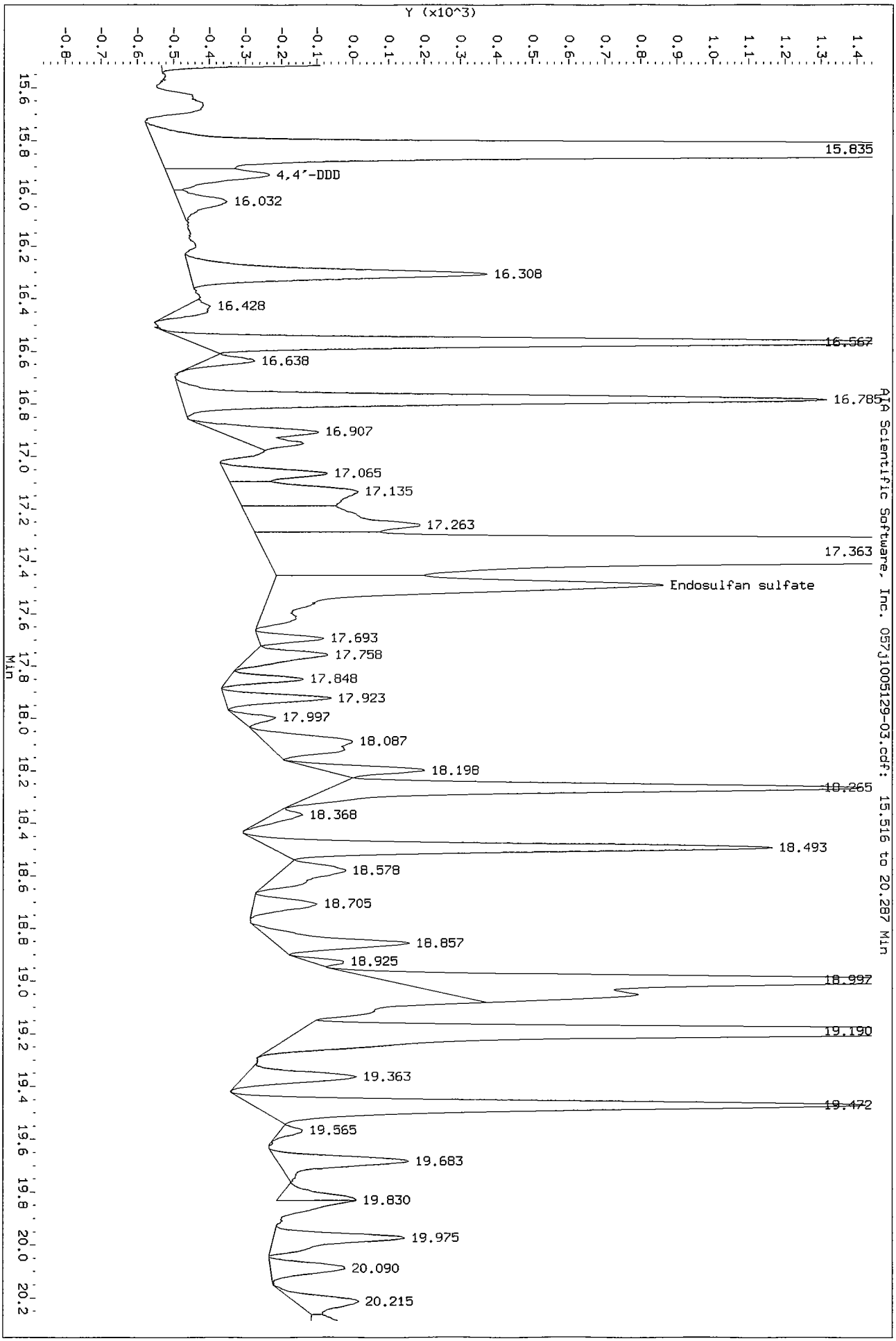
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.25	21.18 21.32	44495	406698	Decachlorobiphenyl	0.109406	19.81986		91.2	55 - 130	
21.34		2205								
21.52		4979								
21.68		5279								
21.96		350								
22.09		590								
22.50		195								
22.70		367								
22.79		136								
22.89		186								
23.01		197								
23.29		832								
23.69		555								
23.81		1079								
23.96		732								
24.34		12236								
24.75		1687								

Manually Integrated Peaks



Start: 17.45 Stop: 17.56


Data File: /chem/tracegc84.i/j100528c_2C.b/057j1005129-03.d/057j1005129-03.cdf
Injection Date: 29-MAY-2010 19:51
Instrument: tracegc84.i
Client Sample ID: SS54-0-1
Y (x10^3)
-0.8 -0.7 -0.6 -0.5 -0.4 -0.3 -0.2 -0.1 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4
15.6 15.8 16.0 16.2 16.4 16.6 16.8 17.0 17.2 17.4 17.6 17.8 18.0 18.2 18.4 18.6 18.8 19.0 19.2 19.4 19.6 19.8 20.0 20.2
Min
15.835
4,4'-DDD
16.032
16.308
16.428
16.567
16.638
16.785
16.907
17.065
17.135
17.263
17.363
Endosulfan sulfate
17.693
17.758
17.848
17.923
17.997
18.087
18.198
18.265
18.368
18.493
18.578
18.705
18.857
18.925
18.997
19.190
19.363
19.472
19.565
19.683
19.830
19.975
20.090
20.215
AIA Scientific Software, Inc. 057j1005129-03.cdf: 15.516 to 20.287 Min

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS55-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	0.27	J
319-85-7	beta-BHC	1.3	U
319-84-6	alpha-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC (Lindane)	2.6	U
72-54-8	4,4'-DDD	5.0	U
72-55-9	4,4'-DDE	5.0	U
50-29-3	4,4'-DDT	5.0	U
60-57-1	Dieldrin	5.0	U
959-98-8	Endosulfan I	2.6	U
33213-65-9	Endosulfan II	5.0	U
1031-07-8	Endosulfan sulfate	0.99	JP
72-20-8	Endrin	5.0	U
7421-93-4	Endrin Aldehyde	5.0	U
76-44-8	Heptachlor	2.6	U
1024-57-3	Heptachlor Epoxide	2.6	U
72-43-5	Methoxychlor	3.5	JP
8001-35-2	Toxaphene	130	U
53494-70-5	Endrin Ketone	1.0	JP
5103-74-2	gamma-Chlordane	2.6	U
5103-71-9	alpha-Chlordane	2.6	U

FORM I PEST

Data File: /chem/tracegc84.i/j100528c.b/055j1005129-01.d

Date : 29-MAY-2010 18:53

Client ID: SS55-00-01

Instrument: tracegc84.i

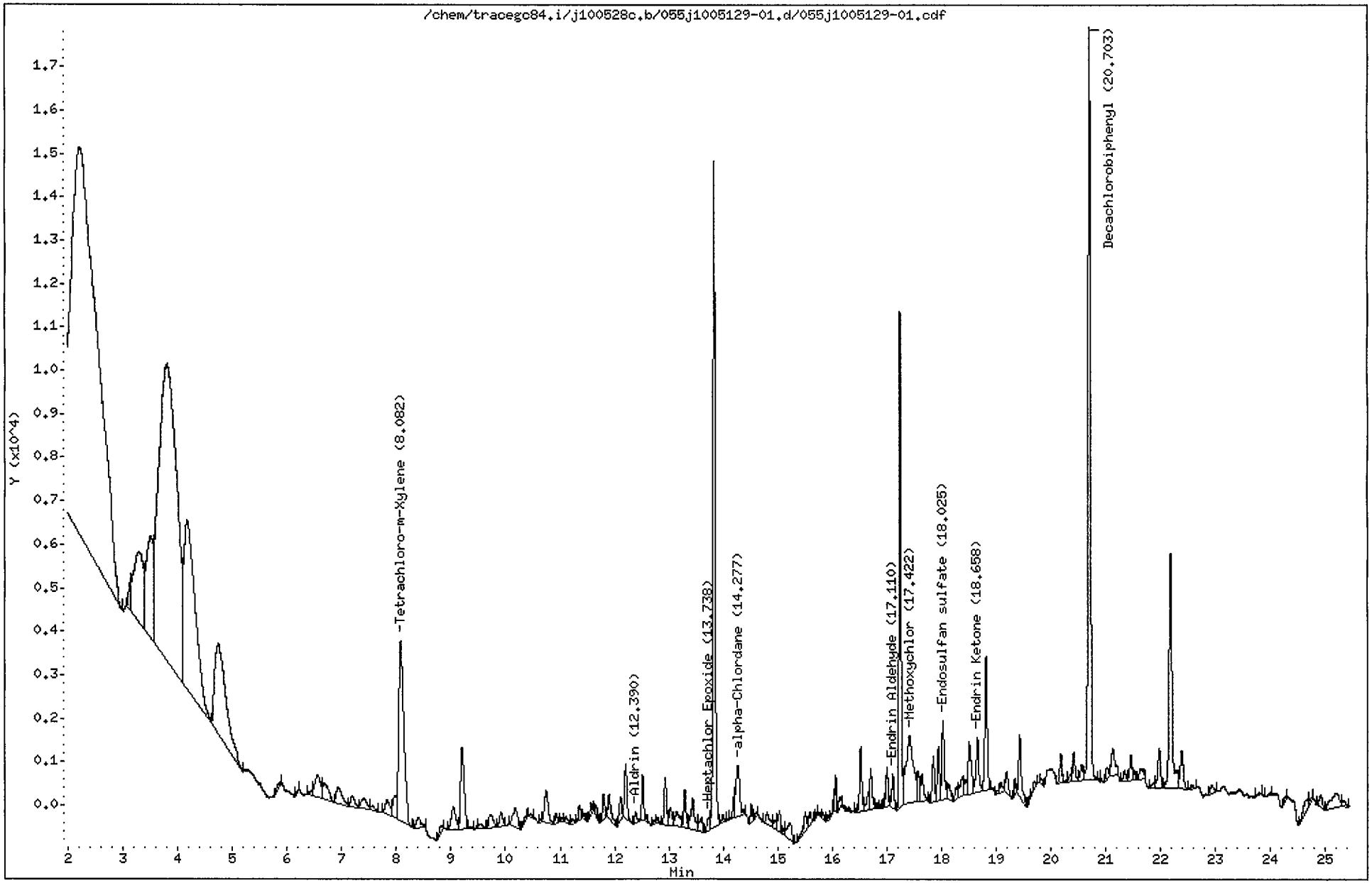
Sample Info: 1005129-01

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



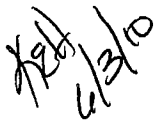
CompuChem

Lab Smp Id : 1005129-01 Client Smp Id : SS55-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 18:53 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS55-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57			34805								
1.74			9990								
1.77			464								
1.89			225								
2.21			315371								
3.15			1761								
3.29			19513								
3.51			19596								
3.82			155541								
4.17			56556								
4.75			29842								
5.88			563								
6.21			140								
6.45			435								
6.56			3787								
6.69			2812								
6.93			2752								
7.20			1239								
7.41			1735								
7.56			552								
7.83			1983								
7.98			2473								
8.08	8.01	8.15	26841	522758	Tetrachloro-m-Xylene	0.051345	12.96592		85.6	70 - 125	
8.40			1563								
8.82			724								
9.04			2887								
9.21			8674								
9.48			132								
9.55			571								
9.72			1729								
9.92			1433								
10.18			2789								
10.37			381								
10.47			210								
10.65			168								
10.75			3659								
10.92			610								



CompuChem

Lab Smp Id : 1005129-01 Client Smp Id : SS55-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 18:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS55-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.03		269								
11.10		411								
11.23		323								
11.36		966								
11.45		385								
11.57		618								
11.66		558								
11.80		1538								
11.90		2433								
12.11		1892								
12.21		4329								
12.39	12.27 12.41	809	636570	Aldrin	0.001269	0.320531	2.575758			J
12.52		2598								
12.60		432								
12.73		202								
12.79		389								
12.93		3288								
13.03		1510								
13.15		2157								
13.29		2692								
13.44		3601								
13.60		1415								
13.74	13.68 13.82	783	593700	Heptachlor Epoxide	0.001317	0.332617	2.575758			J
13.84		42043								
13.99		550								
14.20		950								
14.28	14.27 14.41	5779	516712	alpha-Chlordane	0.011182	2.823796	2.575758			
14.52		1003								
14.60		362								
14.81		1429								
14.95		823								
15.03		1618								
15.11		329								
15.23		2343								
15.50		1548								
15.59		908								
15.71		147								

CompuChem

Lab Smp Id : 1005129-01 Client Smp Id : SS55-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 18:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS55-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.81		369								
15.93		215								
16.04		655								
16.06		1497								
16.13		831								
16.42		180								
16.52		4094								
16.68		1392								
16.70		2887								
16.82		361								
16.89		161								
16.94		402								
17.01		2523								
17.11	17.00 17.14	2329	348470	Endrin Aldehyde	0.006684	1.687753	5.000000			J
17.24		28115								
17.42	17.37 17.51	14302	194359	Methoxychlor	0.073585	18.58219	25.75758			J
17.57		2281								
17.65		2012								
17.85		3125								
17.95		3393								
18.02	17.93 18.07	5968	392055	Endosulfan sulfate	0.015220	3.843385	5.000000			J
18.14		1491								
18.27		760								
18.37		1877								
18.44		1130								
18.51		4767								
18.66	18.53 18.67	4411	457258	Endrin Ketone	0.009647	2.436021	5.000000			J
18.82		9372								
19.02		169								
19.09		720								
19.20		1858								
19.34		779								
19.43		4795								
19.62		210								
19.70		678								
19.84		306								
20.18		1740								

CompuChem

Lab Smp Id : 1005129-01 Client Smp Id : SS55-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 18:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS55-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.30		141								
20.35		510								
20.41		1935								
20.56		1261								
20.70	20.63 20.77	51488	408350	Decachlorobiphenyl	0.126088	31.84038		105.1	55 - 130	
20.91		166								
21.02		836								
21.13		3028								
21.34		748								
21.46		1860								
21.53		542								
21.64		1402								
21.87		354								
21.98		3211								
22.18		20936								
22.39		3462								
22.56		276								
22.93		887								
23.77		198								
23.98		178								
24.29		330								
24.66		1495								
24.75		459								
24.91		1162								
25.20		3566								
25.34		636								

Data File: /chem/tracegc84.i/j100528c_2C.b/055j1005129-01.d

Date : 29-MAY-2010 18:53

Client ID: SS55-00-01

Instrument: tracegc84.i

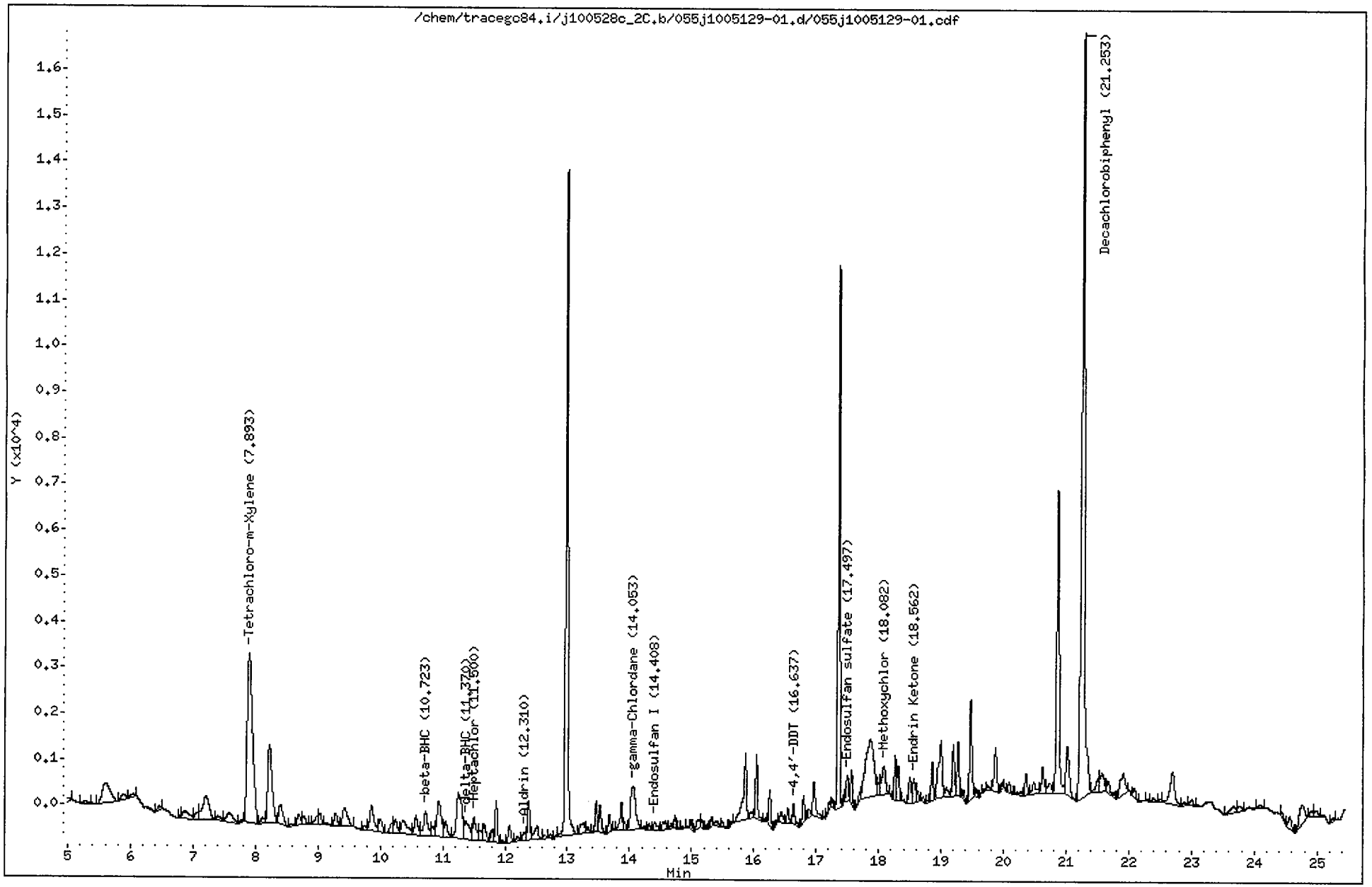
Sample Info: 1005129-01

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-01 Client Smp Id : SS55-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 18:53 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS55-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.02			252347								
2.07			238341								
2.75			1532								
2.85			2682								
3.03			826								
3.08			813								
3.56			30070								
3.73			72354								
4.28			2310								
5.01			247								
5.29			268								
5.61			3921								
5.89			695								
6.04			275								
6.46			279								
6.79			96								
6.86			1208								
7.06			611								
7.21			3878								
7.39			411								
7.58			1336								
7.79			111								
7.89	7.82	7.96	22034	416798	Tetrachloro-m-Xylene	0.052863	13.34914		88.1	70 - 125	
8.12			435								
8.22			8170								
8.40			2047								
8.57			160								
8.69			880								
8.77			656								
8.99			542								
9.04			721								
9.29			902								
9.43			2181								
9.75			398								
9.86			2472								
10.00			1152								
10.18			781								

6/3/10

CompuChem

Lab Smp Id : 1005129-01 Client Smp Id : SS55-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 18:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS55-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.24		1075								
10.37		2024								
10.57		1647								
10.72	10.63 10.77	2442	248610	beta-BHC	0.009823	2.480458	1.289394			
10.85		770								
10.94		3833								
11.05		1299								
11.25		6080								
11.37	11.33 11.47	2063	551235	delta-BHC	0.003741	0.944619	2.575758			J
11.50	11.45 11.59	1954	579497	Heptachlor	0.003370	0.851051	2.575758			J
11.61		831								
11.67		1261								
11.79		700								
11.86		2276								
11.96		129								
12.07		1085								
12.20		307								
12.31	12.21 12.35	575	542192	Aldrin	0.001059	0.267340	2.575758			J
12.38		2156								
12.51		1258								
12.63		206								
12.72		227								
12.98		35589								
13.22		1170								
13.34		281								
13.46		1563								
13.52		1594								
13.68		885								
13.87		1577								
13.93		423								
14.05	13.95 14.09	5432	513150	gamma-Chlordane	0.010584	2.672639	2.575758			
14.24		247								
14.31		359								
14.41	14.39 14.53	614	477982	Endosulfan I	0.001285	0.324385	2.575758			J
14.54		750								
14.67		194								
14.73		546								

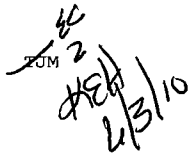
CompuChem

Lab Smp Id : 1005129-01 Client Smp Id : SS55-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 18:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS55-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.85		115								
15.00		506								
15.12		727								
15.17		311								
15.25		258								
15.31		422								
15.41		380								
15.49		318								
15.63		224								
15.86		5295								
15.95		405								
16.04		3066								
16.18		155								
16.25		1729								
16.35		231								
16.44		801								
16.54		746								
16.64	16.57 16.71	1224	405929	4,4'-DDT	0.003013	0.760819	5.000000			J
16.80		1415								
16.89		453								
16.96		2350								
17.21		387								
17.26		349								
17.35		24634								
17.45		330								
17.50	17.42 17.56	1439	366674	Endosulfan sulfate	0.003924	0.991028	5.000000			J
17.57		1463								
17.69		402								
17.86		11737								
18.00		792								
18.08	18.03 18.17	2567	182916	Methoxychlor	0.014034	3.543885	25.75758			J
18.26		2080								
18.31		1728								
18.50		1503								
18.56	18.56 18.70	1693	419519	Endrin Ketone	0.004033	1.018483	5.000000			JUM
18.62		503								
18.71		313								



CompuChem

Lab Smp Id : 1005129-01 Client Smp Id : SS55-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 18:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS55-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.79		105								
18.85		1891								
18.99		5423								
19.08		753								
19.19		2550								
19.27		3063								
19.36		453								
19.47		5541								
19.57		318								
19.65		100								
19.69		94								
19.75		293								
19.87		2767								
19.97		324								
20.09		577								
20.21		305								
20.36		1164								
20.48		1181								
20.62		1733								
20.74		976								
20.86		18853								
21.02		3901								
21.25	21.18 21.32	54098	406698	Decachlorobiphenyl	0.133018	33.59035		110.8	55 - 130	
21.51		1140								
21.57		1706								
21.67		1075								
21.91		2540								
22.08		625								
22.29		124								
22.39		316								
22.51		198								
22.70		3792								
22.89		181								
23.00		411								
23.67		885								
23.77		561								
24.09		250								

CompuChem

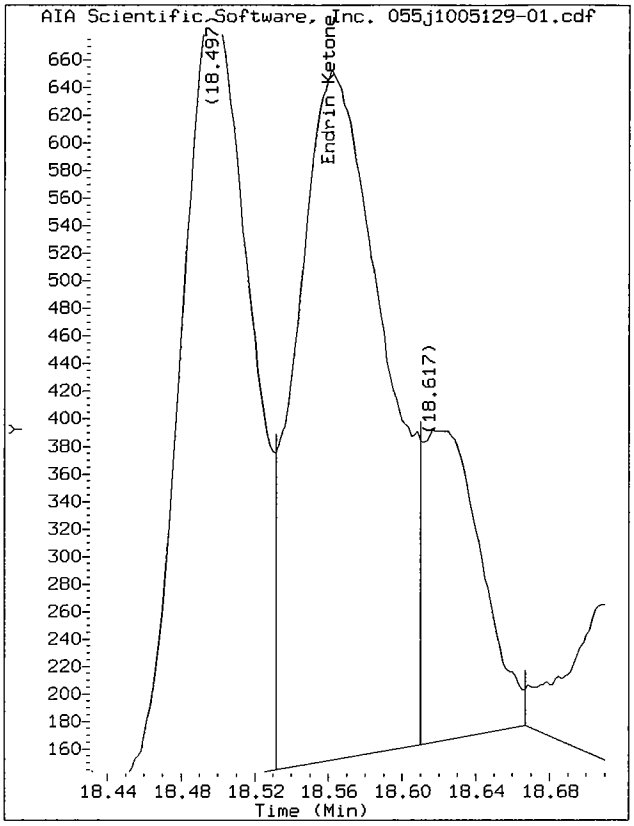
Lab Smp Id : 1005129-01 Client Smp Id : SS55-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 18:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS55-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

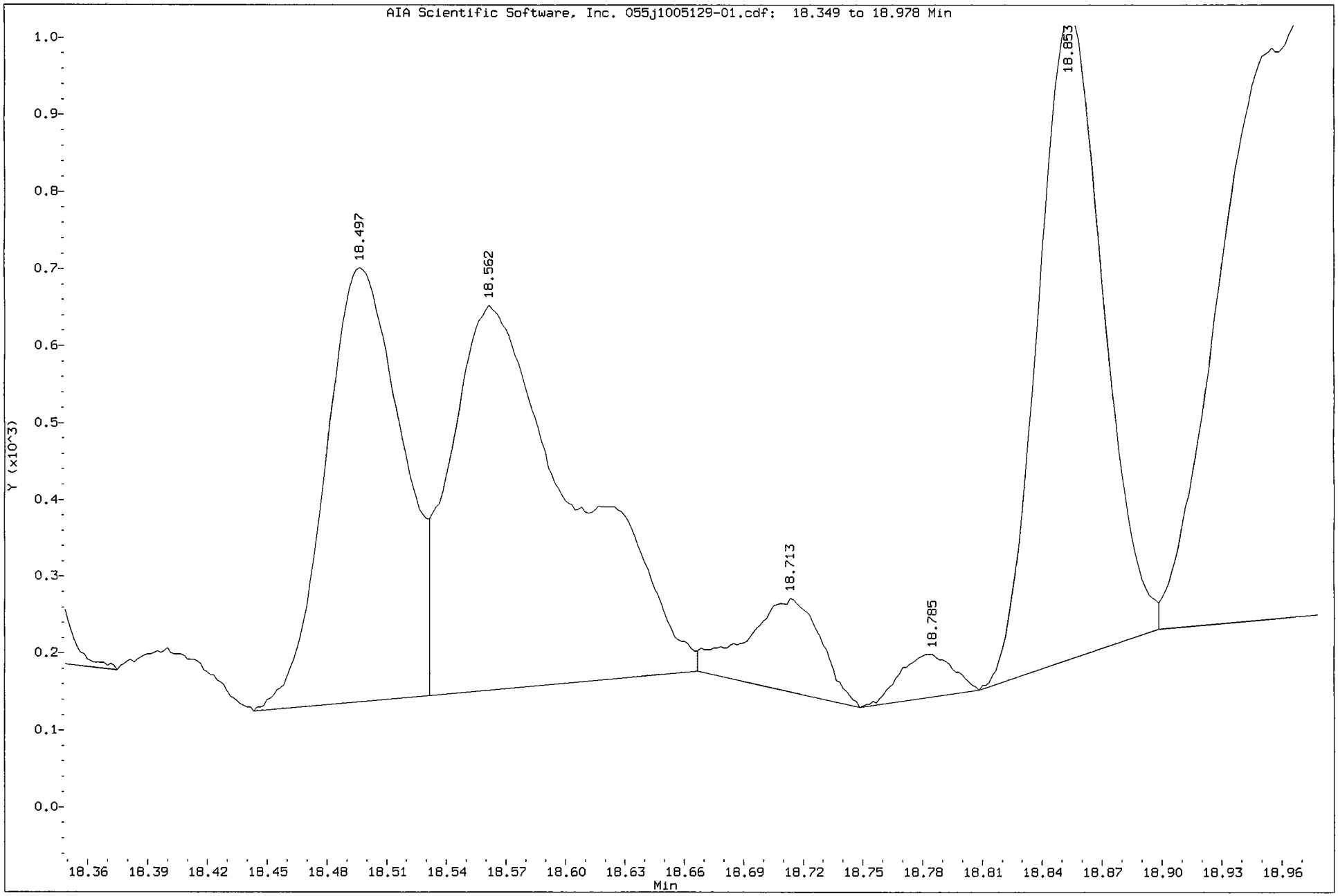
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.44		270								
24.57		873								
24.77		2391								
24.90		412								
24.99		464								
25.26		165								

Manually Integrated Peaks



Start: 18.53 Stop: 18.61

Data File: /chem/tracegc84.i/j100528c_2C.b/055j1005129-01.d/055j1005129-01.cdf
Injection Date: 29-MAY-2010 18:53
Instrument: tracegc84.i
Client Sample ID: SS55-00-01



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS56-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.1	
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	1.1	JP
58-89-9	gamma-BHC (Lindane)	1.6	JP
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	1.1	JP
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	1.4	J
959-98-8	Endosulfan I	1.6	J
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	1.4	J
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	0.66	JP
76-44-8	Heptachlor	0.39	JP
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	0.65	JB
5103-71-9	alpha-Chlordane	1.7	J

Data File: /chem/tracegc84.i/j100528d.b/067j1005129-09.d

Date : 30-MAY-2010 00:40

Client ID: SS56-0-1

Instrument: tracegc84.i

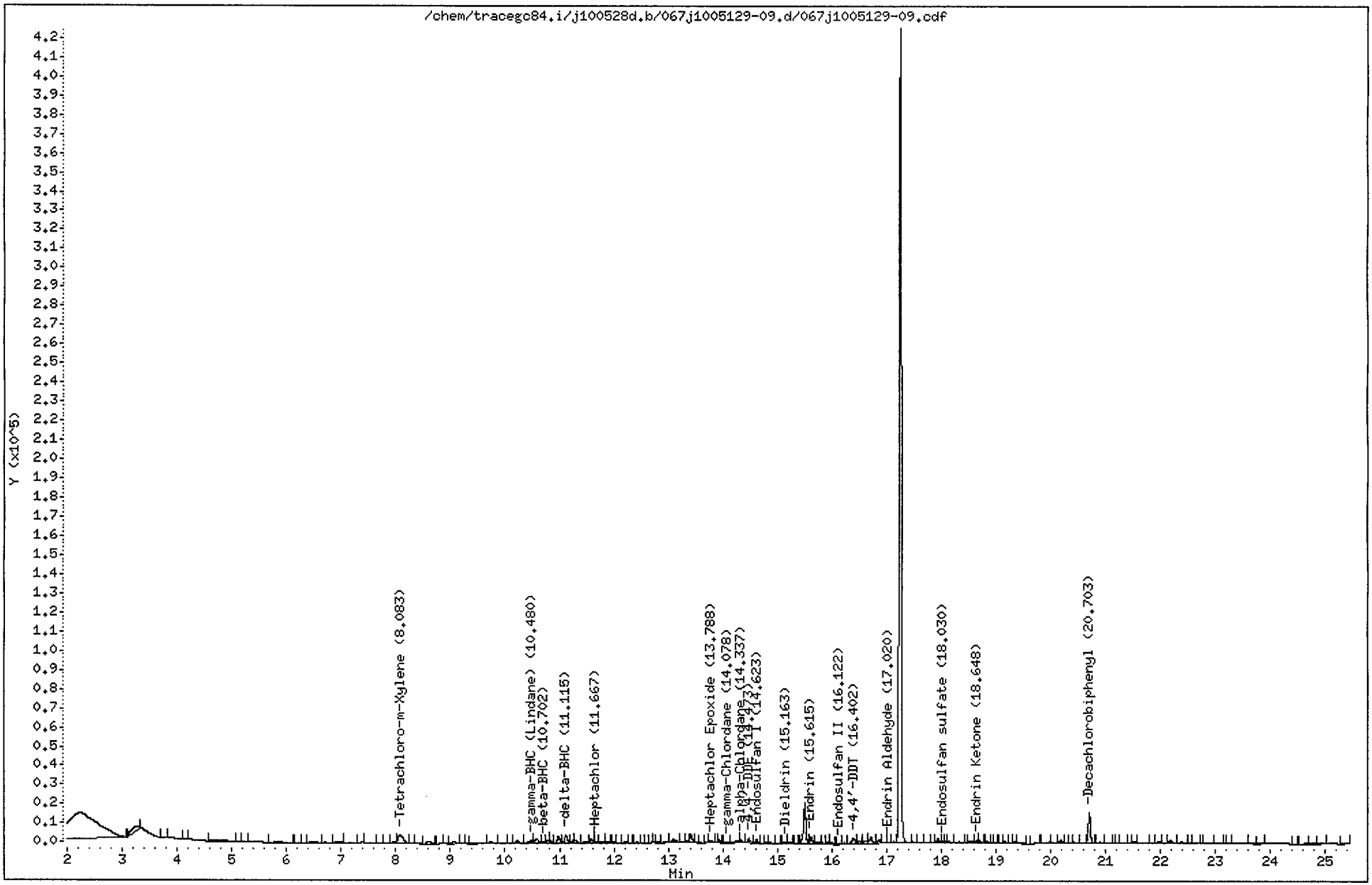
Sample Info: 1005129-09

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-09 Client Smp Id : SS56-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:40 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS56-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58		31618								
1.83		48365								
2.21		512446								
3.24		20789								
3.78		1434								
4.13		189								
4.73		10227								
5.27		214								
5.85		8381								
6.23		427								
6.49		1580								
6.70		798								
6.94		6806								
7.38		519								
7.69		324								
7.98		3629								
8.08	8.01 8.15	28783	522758	Tetrachloro-m-Xylene	0.055060	11.19105		91.8	70 - 125	
8.42		1465								
8.60		7201								
8.85		353								
9.06		5297								
9.25		256								
9.50		5999								
9.75		4784								
9.93		1922								
10.09		917								
10.23		6806								
10.48	10.36 10.50	5597	729192	gamma-BHC (Lindane)	0.007674	1.559805	2.073171			J
10.59		11442								
10.70	10.59 10.73	1601	300532	beta-BHC	0.005327	1.082766	1.037805			
10.79		3856								
10.82		4145								
10.98		11055								
11.12	11.02 11.16	13975	689518	delta-BHC	0.020266	4.119176	2.073171			
11.24		3728								
11.30		4623								
11.48		3009								

6/3/10

CompuChem

Lab Smp Id : 1005129-09 Client Smp Id : SS56-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS56-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.57		6597								
11.67	11.55 11.69	1339	695465	Heptachlor	0.001925	0.391327	2.073171			J
11.77		2896								
11.88		2653								
12.00		455								
12.08		599								
12.20		2051								
12.29		310								
12.43		1128								
12.52		150								
12.60		221								
12.70		177								
12.73		126								
12.78		401								
12.95		2405								
13.09		8338								
13.27		965								
13.34		2673								
13.42		13107								
13.51		923								
13.61		536								
13.71		927								
13.79	13.68 13.82	3236	593700	Heptachlor Epoxide	0.005451	1.107838	2.073171			J
13.94		3316								
14.08	13.97 14.11	1897	594875	gamma-Chlordane	0.003189	0.648151	2.073171			J
14.29		5648								
14.34	14.27 14.41	4656	516712	alpha-Chlordane	0.009009	1.831073	2.073171			J
14.47	14.45 14.59	7751	523741	4,4'-DDE	0.014797	3.007598	4.024390			J
14.62	14.57 14.71	4360	548162	Endosulfan I	0.007952	1.616265	2.073171			J
14.80		913								
14.87		1830								
15.00		270								
15.16	15.10 15.24	3602	515556	Dieldrin	0.006987	1.420046	4.024390			J
15.21		2815								
15.35		651								
15.41		355								
15.50		61609								

CompuChem

Lab Smp Id : 1005129-09 Client Smp Id : SS56-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS56-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.62	15.61 15.75	9138	463071	Endrin	0.019731	4.010428	4.024390			J
15.74		2446								
15.81		768								
15.94		846								
15.98		3378								
16.12	16.09 16.23	1615	450326	Endosulfan II	0.003586	0.728920	4.024390			J
16.24		621								
16.40	16.35 16.49	10360	454781	4,4'-DDT	0.022778	4.629672	4.024390			
16.48		4949								
16.61		6021								
16.71		12612								
16.86		4992								
16.94		2374								
17.02	17.00 17.14	1128	348470	Endrin Aldehyde	0.003234	0.657345	4.024390			J
17.13		2536								
17.25		1141619								
17.48		2457								
17.73		328								
17.84		727								
17.94		6990								
18.03	17.93 18.07	2919	392055	Endosulfan sulfate	0.007443	1.512771	4.024390			J
18.09		1832								
18.14		2208								
18.33		2872								
18.45		280								
18.55		3881								
18.65	18.53 18.67	3478	457258	Endrin Ketone	0.007604	1.545535	4.024390			J
18.70		3822								
18.80		443								
18.85		1095								
18.99		166								
19.09		416								
19.18		2175								
19.25		1307								
19.34		2863								
19.42		3052								
19.77		1747								

CompuChem

Lab Smp Id : 1005129-09 Client Smp Id : SS56-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS56-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.97		1414								
20.03		948								
20.18		4298								
20.29		376								
20.37		772								
20.43		856								
20.60		380								
20.70	20.63 20.77	42141	408350	Decachlorobiphenyl	0.103198	20.97525		86.0	55 - 130	
20.89		942								
21.05		859								
21.21		406								
21.33		492								
21.45		299								
21.52		1603								
21.85		167								
21.97		1809								
22.07		189								
22.18		5609								
22.39		2372								
22.56		194								
22.63		430								
22.84		842								
23.04		751								
23.24		199								
23.65		963								
23.82		1139								
24.43		583								
24.64		1843								
24.77		901								
24.91		1143								
25.39		1255								

Data File: /chem/tracegc84.i/j100528d_2C.b/067j1005129-09.d

Date : 30-MAY-2010 00:40

Client ID: SS56-0-1

Instrument: tracegc84.i

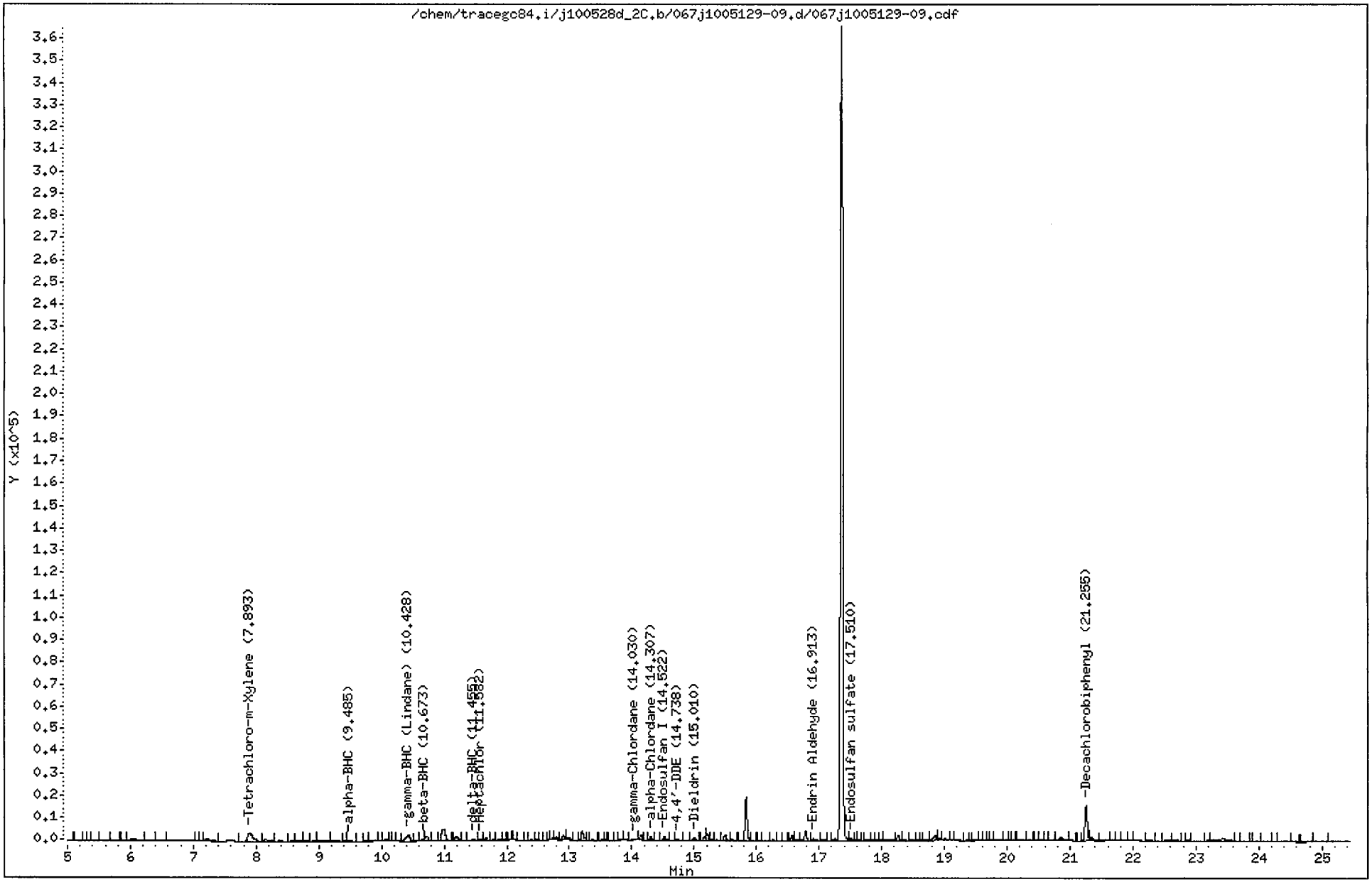
Sample Info: 1005129-09

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-09 Client Smp Id : SS56-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:40 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS56-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.02			36353								
2.90			93700								
3.63			182								
4.27			96								
4.99			1328								
5.22			236								
5.38			242								
5.42			582								
5.73			513								
5.92			192								
6.04			4219								
6.46			947								
7.08			111								
7.22			3672								
7.89	7.82	7.96	23550	416798	Tetrachloro-m-Xylene	0.056502	11.48420		94.2	70 - 125	
8.15			6030								
8.39			2693								
8.60			1213								
8.68			2170								
8.78			1522								
8.94			1100								
9.04			3770								
9.24			3218								
9.42			466								
9.48	9.48	9.62	1205	607758	alpha-BHC	0.001983	0.402988	2.073171			J
9.74			291								
9.89			980								
9.98			117								
10.06			3030								
10.18			200								
10.26			701								
10.43	10.39	10.53	13844	585542	gamma-BHC (Lindane)	0.023643	4.805494	2.073171			
10.57			228								
10.67	10.63	10.77	2022	248610	beta-BHC	0.008129	1.652276	1.037805			
10.72			6550								
10.84			824								
10.99			23375								

6/3/10

CompuChem

Lab Smp Id : 1005129-09 Client Smp Id : SS56-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS56-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.20		7235								
11.29		596								
11.46	11.33 11.47	2968	551235	delta-BHC	0.005384	1.094365	2.073171			J
11.58	11.45 11.59	1923	579497	Heptachlor	0.003318	0.674470	2.073171			J
11.66		2594								
11.79		1213								
11.89		2070								
11.95		304								
12.04		282								
12.12		466								
12.24		850								
12.31		237								
12.38		821								
12.47		591								
12.55		154								
12.60		167								
12.67		397								
12.72		1096								
12.79		3537								
12.90		6526								
12.98		3670								
13.08		221								
13.20		12936								
13.38		1978								
13.52		718								
13.56		367								
13.66		497								
13.74		193								
13.83		821								
13.88		828								
14.03	13.95 14.09	1998	513150	gamma-Chlordane	0.003894	0.791382	2.073171			J
14.15		6004								
14.31	14.28 14.42	3814	446248	alpha-Chlordane	0.008547	1.737160	2.073171			J
14.40		675								
14.52	14.39 14.53	5091	477982	Endosulfan I	0.010651	2.164841	2.073171			
14.63		611								
14.74	14.67 14.81	2614	468602	4,4'-DDE	0.005576	1.133365	4.024390			J

CompuChem

Lab Smp Id : 1005129-09 Client Smp Id : SS56-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS56-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.88		964								
15.01	14.99 15.13	3671	461929	Dieldrin	0.007947	1.615267	4.024390			J
15.18		3001								
15.21		6883								
15.28		610								
15.36		875								
15.49		6654								
15.62		1196								
15.84		45560								
15.95		296								
16.04		154								
16.11		529								
16.27		1562								
16.39		415								
16.45		284								
16.57		4719								
16.64		1183								
16.79		10361								
16.91	16.83 16.97	2915	316985	Endrin Aldehyde	0.009193	1.868468	4.024390			J
17.06		1596								
17.27		1945								
17.36		944221								
17.51	17.42 17.56	2483	366674	Endosulfan sulfate	0.006772	1.376359	4.024390			J
17.58		254								
17.64		352								
17.70		115								
17.77		1360								
17.85		609								
17.92		1306								
17.99		284								
18.08		2225								
18.27		5754								
18.36		1031								
18.49		1285								
18.57		230								
18.71		1612								
18.85		7618								

CompuChem

Lab Smp Id : 1005129-09 Client Smp Id : SS56-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS56-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.92		3302								
19.01		3188								
19.13		1150								
19.19		2334								
19.35		567								
19.42		206								
19.48		1010								
19.57		380								
19.64		471								
19.74		216								
19.86		1023								
19.98		829								
20.09		253								
20.21		934								
20.36		593								
20.48		369								
20.55		653								
20.63		164								
20.69		518								
20.86		4384								
21.02		776								
21.15		112								
21.26	21.18 21.32	42056	406698	Decachlorobiphenyl	0.103409	21.01800		86.2	55 - 130	
21.34		4244								
21.54		1040								
21.67		196								
21.76		561								
21.87		1815								
21.95		1156								
22.09		851								
22.26		1367								
22.55		426								
22.68		1018								
22.88		299								
23.19		303								
23.45		9733								
23.76		406								

CompuChem

Lab Smp Id : 1005129-09 Client Smp Id : SS56-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 00:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS56-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.96		479								
24.25		185								
24.35		1172								
24.55		572								
24.75		2392								
25.00		1273								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS57-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.2	U
1031-07-8	Endosulfan sulfate	4.4	P
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	0.47	J
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	1.1	JP
5103-74-2	gamma-Chlordane	2.2	U
5103-71-9	alpha-Chlordane	2.2	U

Data File: /chem/tracegc84.i/j100528d.b/071j1005129-13.d

Date : 30-MAY-2010 02:35

Client ID: SS57-0-1

Instrument: tracegc84.i

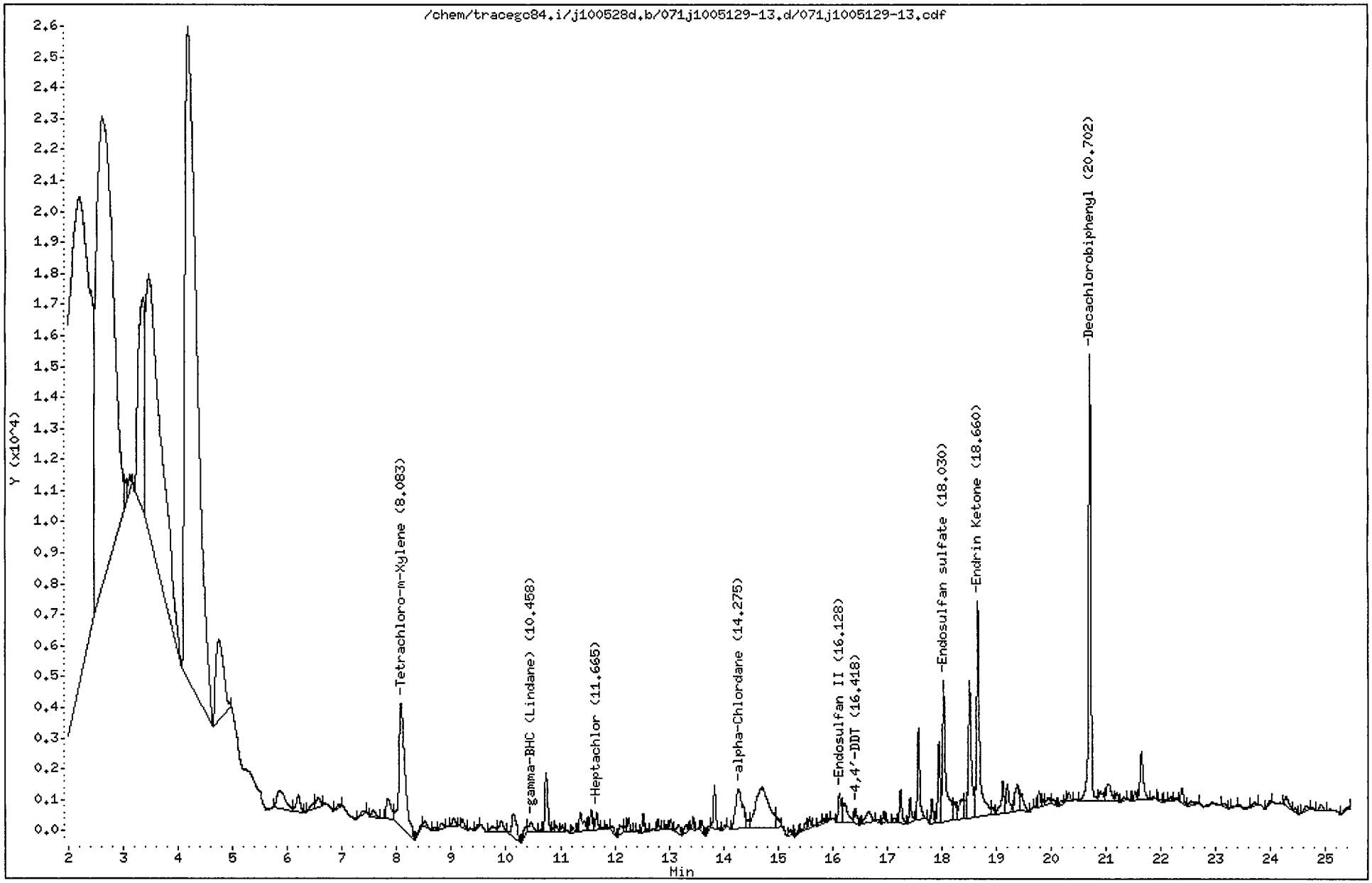
Sample Info: 1005129-13

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



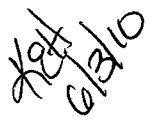
CompuChem

Lab Smp Id : 1005129-13 Client Smp Id : SS57-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:35 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS57-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.13		166								
1.58		69230								
1.83		108200								
2.20		477918								
2.62		316683								
3.05		2120								
3.13		2127								
3.37		53334								
3.47		168285								
4.20		321494								
4.75		26321								
5.85		6461								
6.20		2699								
6.48		960								
6.57		1811								
6.93		555								
7.37		502								
7.56		1152								
7.83		4265								
8.08	8.01 8.15	30938	522758	Tetrachloro-m-Xylene	0.059180	12.48532		98.6	70 - 125	
8.46		465								
8.50		602								
8.69		319								
8.82		701								
9.04		1029								
9.20		840								
9.48		278								
9.75		1354								
9.92		2064								
10.14		4678								
10.36		1072								
10.46	10.36 10.50	1940	729192	gamma-BHC (Lindane)	0.002659	0.560993	2.151899			J
10.64		333								
10.74		7125								
10.86		284								
10.92		700								
11.03		620								



CompuChem

Lab Smp Id : 1005129-13 Client Smp Id : SS57-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS57-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.22		490								
11.37		3025								
11.52		399								
11.57		2084								
11.66	11.55 11.69	1563	695465	Heptachlor	0.002246	0.473835	2.151899			J
11.85		437								
11.95		705								
12.09		1413								
12.20		479								
12.25		1192								
12.42		208								
12.52		1421								
12.59		154								
12.80		865								
12.94		361								
13.03		979								
13.18		1254								
13.31		923								
13.44		964								
13.60		934								
13.73		386								
13.83		4528								
14.03		305								
14.28	14.27 14.41	11282	516712	alpha-Chlordane	0.021834	4.606370	2.151899			
14.44		1011								
14.71		21924								
14.96		1649								
15.23		560								
15.37		210								
15.51		815								
15.58		858								
15.77		474								
15.84		504								
15.93		127								
16.13	16.09 16.23	3695	450326	Endosulfan II	0.008203	1.730578	4.177215			J
16.22		3860								
16.42	16.35 16.49	1559	454781	4,4'-DDT	0.003426	0.722747	4.177215			J

CompuChem

Lab Smp Id : 1005129-13 Client Smp Id : SS57-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS57-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.65		2605								
16.83		316								
16.94		767								
17.12		600								
17.24		3100								
17.42		2186								
17.57		8904								
17.82		2060								
17.95		7338								
18.03	17.93 18.07	20044	392055	Endosulfan sulfate	0.051123	10.78543	4.177215			
18.24		2129								
18.38		3843								
18.43		1539								
18.50		17133								
18.66	18.53 18.67	26627	457258	Endrin Ketone	0.058232	12.28522	4.177215			
18.93		947								
19.11		3770								
19.20		3493								
19.38		4308								
19.46		2320								
19.66		130								
19.78		1304								
19.84		514								
19.93		1103								
20.04		700								
20.18		361								
20.27		206								
20.32		827								
20.70	20.63 20.77	42868	408350	Decachlorobiphenyl	0.104979	22.14738		87.5	55 - 130	
20.89		1495								
21.04		3254								
21.19		793								
21.33		366								
21.39		132								
21.53		808								
21.64		6388								
21.87		276								

CompuChem

Lab Smp Id : 1005129-13 Client Smp Id : SS57-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS57-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.99		175								
22.09		202								
22.18		401								
22.38		1650								
22.55		660								
23.14		498								
23.36		134								
23.71		386								
23.98		474								
24.28		1484								
24.43		412								
24.64		759								
24.91		817								
25.41		488								

Data File: /chem/tracegc84.i/j100528d_2C.b/071j1005129-13.d

Date : 30-MAY-2010 02:35

Client ID: SS57-0-1

Instrument: tracegc84.i

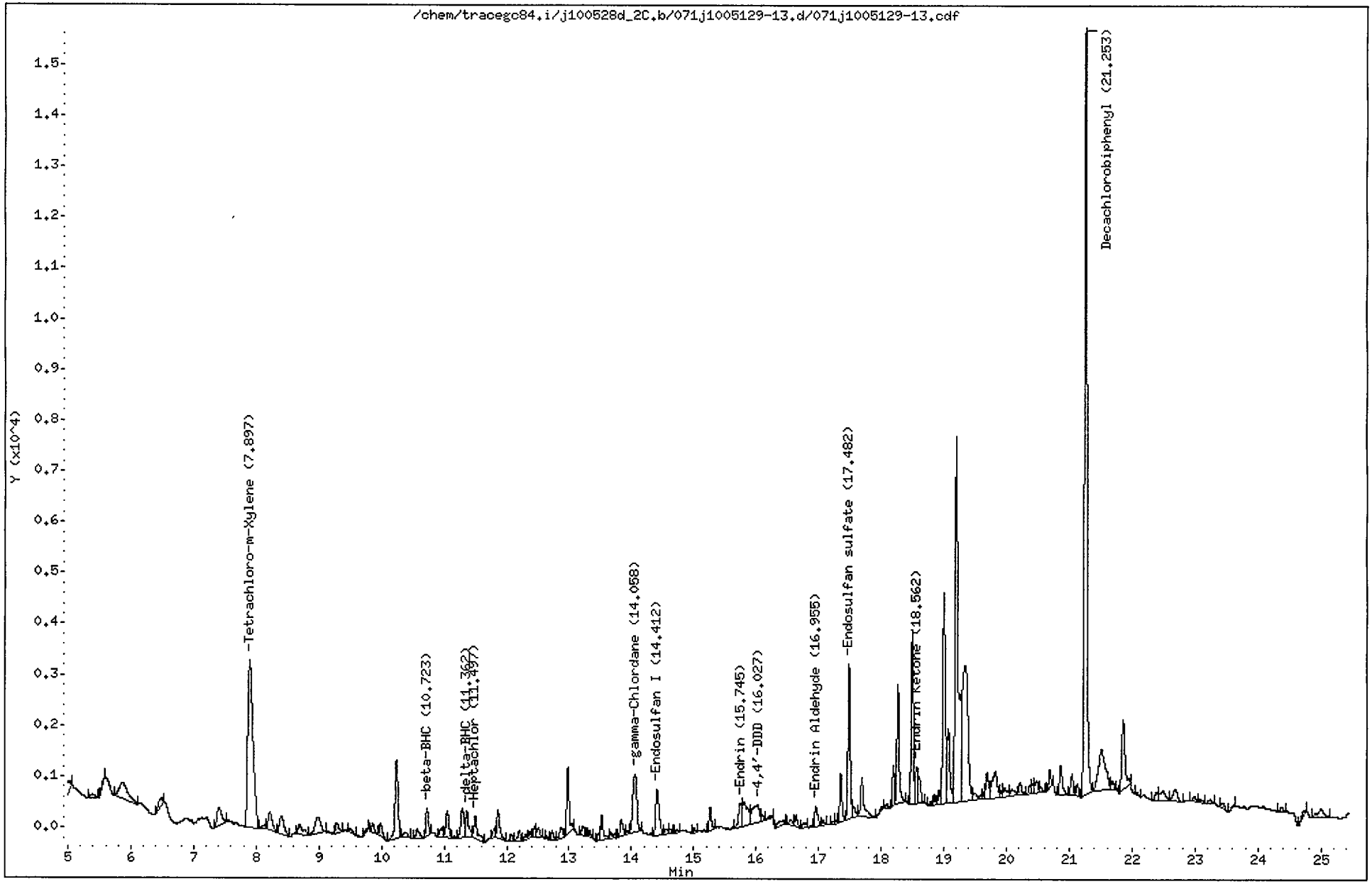
Sample Info: 1005129-13

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-13 Client Smp Id : SS57-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:35 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS57-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.30			176								
2.03			112541								
2.08			8875								
2.24			10775								
2.69			4043								
2.75			21582								
3.06			53108								
3.75			244493								
4.28			4076								
5.00			727								
5.39			361								
5.59			300								
5.87			2877								
6.48			834								
7.40			1871								
7.90	7.82	7.96	18887	416798	Tetrachloro-m-Xylene	0.045312	9.559530		75.5	70 - 125	
8.13			235								
8.22			1565								
8.40			1889								
8.70			1085								
8.99			2117								
9.28			765								
9.49			314								
9.76			138								
9.86			468								
9.98			839								
10.24			5111								
10.39			424								
10.57			745								
10.72	10.63	10.77	1465	248610	beta-BHC	0.005893	1.243199	1.077215			
10.96			701								
11.05			1852								
11.17			110								
11.29			2030								
11.36	11.33	11.47	1827	551235	delta-BHC	0.003313	0.698853	2.151899			J
11.50	11.45	11.59	1788	579497	Heptachlor	0.003085	0.650935	2.151899			J
11.79			441								

KEK 6/3/10

CompuChem

Lab Smp Id : 1005129-13 Client Smp Id : SS57-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS57-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.86		1828								
12.07		381								
12.20		608								
12.30		235								
12.37		272								
12.45		506								
12.51		519								
12.64		118								
12.73		402								
12.88		793								
12.98		3614								
13.23		553								
13.33		278								
13.47		364								
13.52		1465								
13.67		477								
13.84		1010								
13.93		183								
14.06	13.95 14.09	5356	513150	gamma-Chlordane	0.010436	2.201592	2.151899			
14.41	14.39 14.53	3531	477982	Endosulfan I	0.007385	1.558061	2.151899			J
14.57		364								
14.63		205								
14.74		119								
15.01		216								
15.26		1251								
15.74	15.65 15.79	1791	408649	Endrin	0.004380	0.924112	4.177215			J
15.82		2808								
16.03	15.91 16.05	2751	340626	4,4'-DDD	0.008076	1.703861	4.177215			J
16.11		313								
16.21		225								
16.39		561								
16.55		358								
16.64		664								
16.76		392								
16.96	16.83 16.97	1308	316985	Endrin Aldehyde	0.004123	0.869878	4.177215			J
17.07		191								
17.23		113								

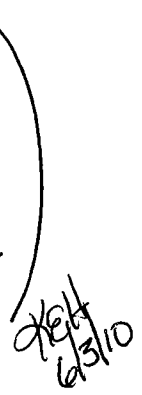
CompuChem

Lab Smp Id : 1005129-13 Client Smp Id : SS57-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS57-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.29		168								
17.35		2290								
17.48	17.42 17.56	7702	366674	Endosulfan sulfate	0.021002	4.430870	4.177215			M
17.56		675								
17.69		2872								
18.01		187								
18.09		290								
18.19		1642								
18.26		5794								
18.49		7979								
18.56	18.56 18.70	2199	419519	Endrin Ketone	0.005242	1.105848	4.177215			JM
18.60		1277								
18.80		163								
18.85		387								
18.92		606								
19.00		11496								
19.07		4681								
19.19		24111								
19.34		17604								
19.49		731								
19.64		272								
19.69		1531								
19.82		2946								
19.92		287								
19.97		732								
20.09		588								
20.21		798								
20.37		347								
20.41		484								
20.48		832								
20.54		320								
20.69		823								
20.86		1825								
21.04		1132								
21.13		577								
21.25	21.18 21.32	41242	406698	Decachlorobiphenyl	0.101405	21.39338		84.5	55 - 130	
21.51		6367								



CompuChem

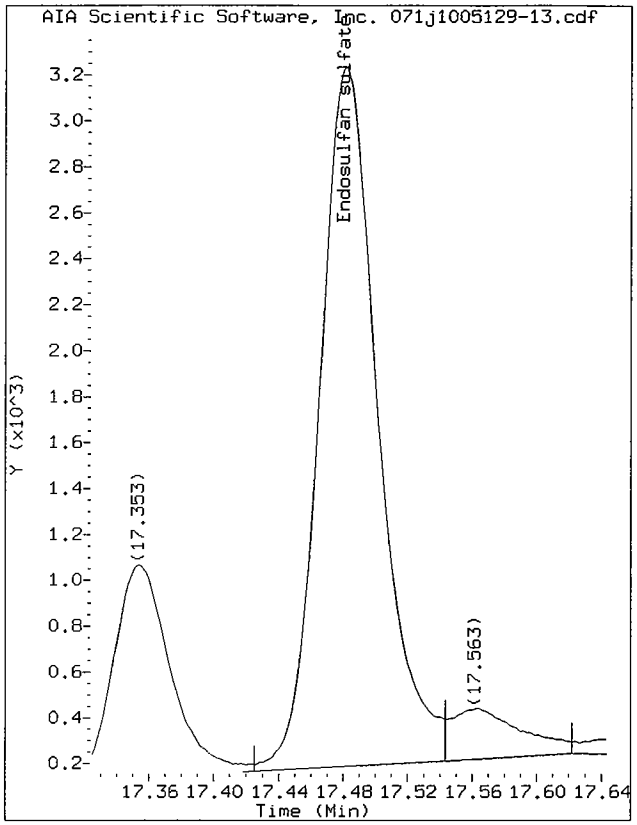
Lab Smp Id : 1005129-13 Client Smp Id : SS57-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 02:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS57-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

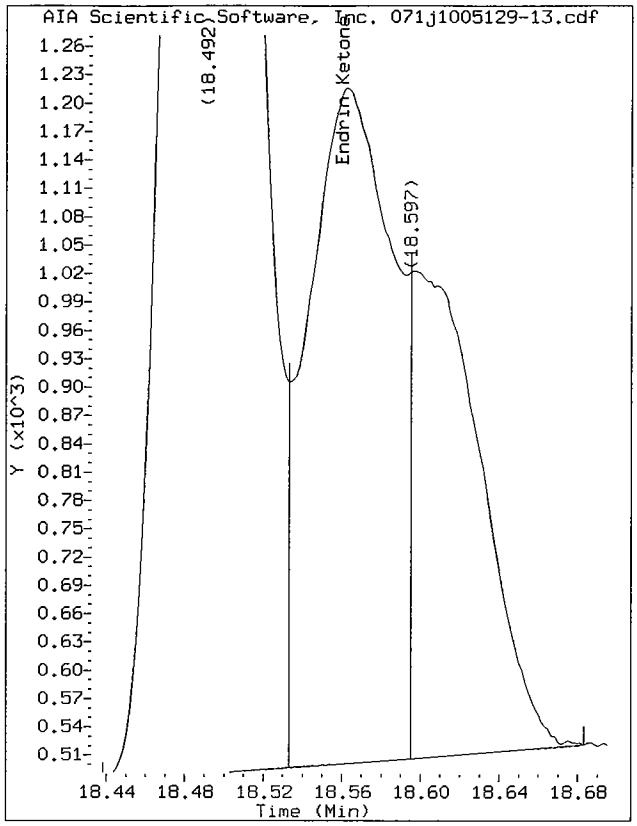
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.68		528								
21.86		5042								
22.07		153								
22.38		574								
22.49		1171								
22.69		1226								
22.99		307								
23.08		183								
23.24		253								
23.44		412								
23.62		121								
24.37		268								
24.74		386								
25.00		1159								

Manually Integrated Peaks

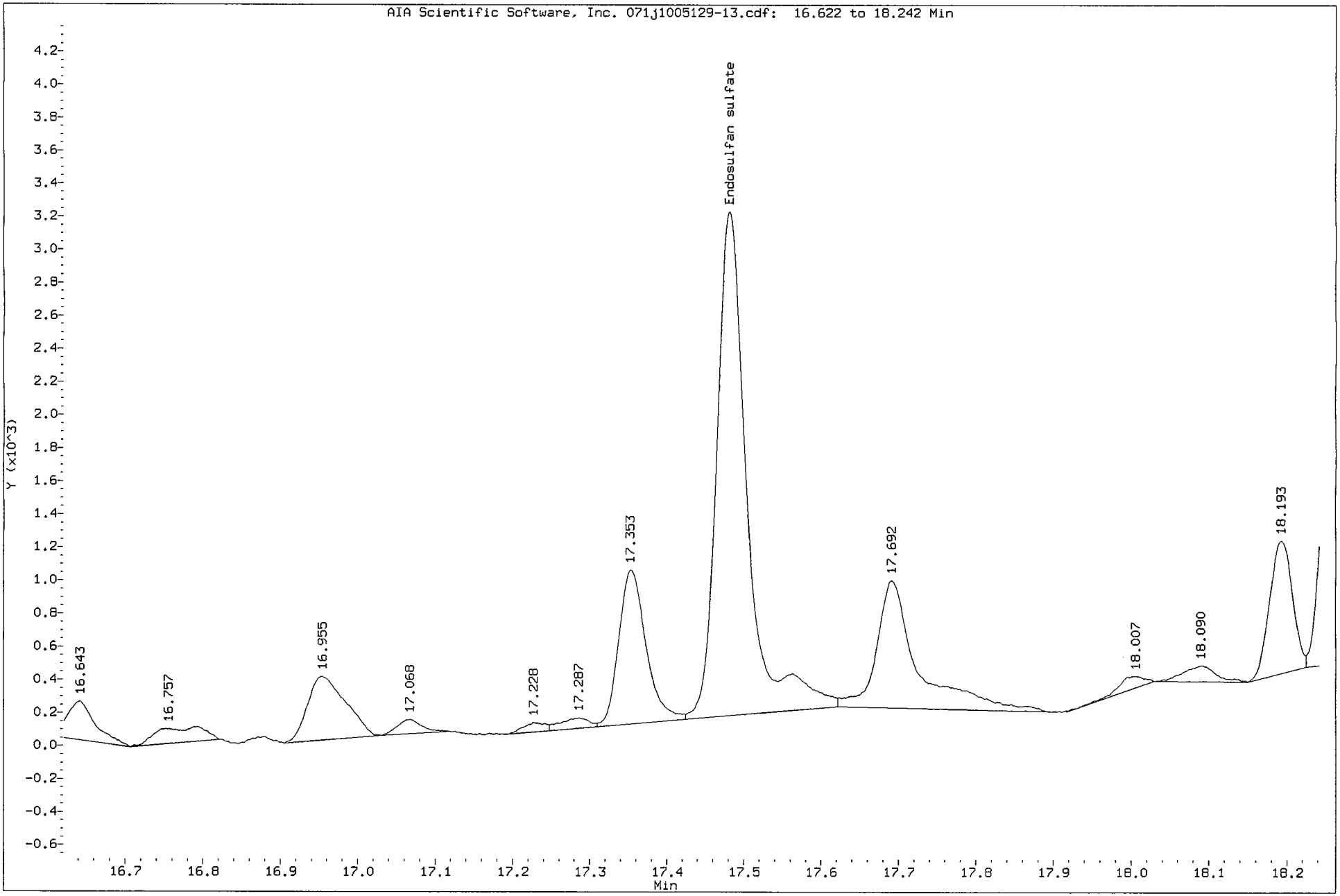


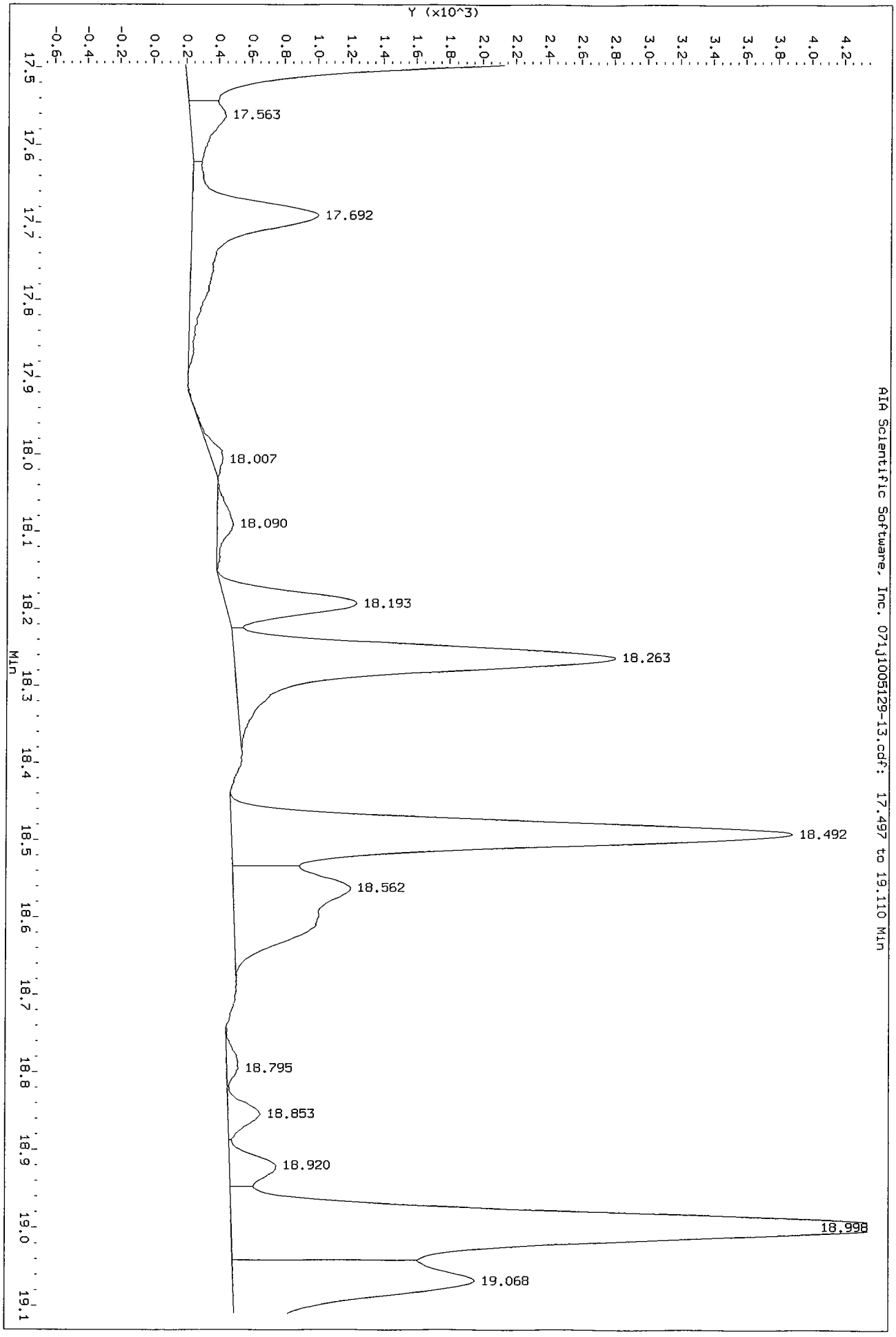
Start: 17.43 Stop: 17.54



Start: 18.53 Stop: 18.59

Data File: /chem/tracegc84.i/j100528d_2C.b/071j1005129-13.d/071j1005129-13.cdf
Injection Date: 30-MAY-2010 02:35
Instrument: tracegc84.i
Client Sample ID: SS57-0-1




Data File: /chem/tracegc84.i/j10052Bd_2C.b/071j1005129-13.d/071j1005129-13.cdf
Injection Date: 30-MAY-2010 02:35
Instrument: tracegc84.i
Client Sample ID: SS57-0-1
Y (x10^3)
17.563
17.692
18.007
18.090
18.193
18.263
18.492
18.562
18.795
18.853
18.920
18.998
19.068
AIA Scientific Software, Inc. 071j1005129-13.cdf: 17.497 to 19.110 Min
Min

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS58-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.90	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.22	J
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

Data File: /chem/tracegc84.i/j100528d.b/069j1005129-11.d

Date : 30-MAY-2010 01:37

Client ID: SS58-0-1

Instrument: tracegc84.i

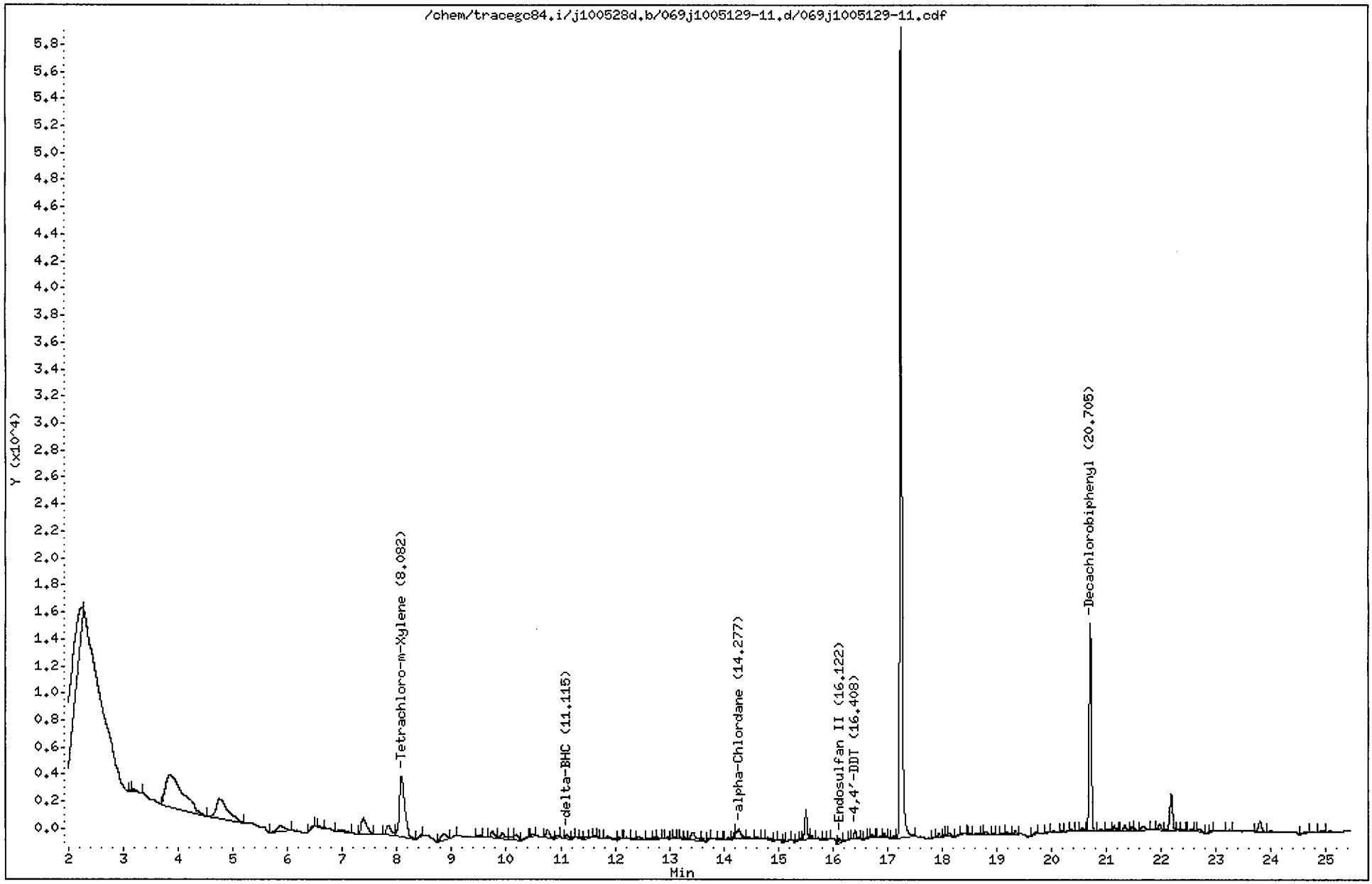
Sample Info: 1005129-11

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-11 Client Smp Id : SS58-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:37 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS58-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58			11039								
1.83			1162								
2.24			36119								
3.13			183								
3.20			1258								
3.85			53553								
4.76			22990								
5.87			4541								
6.47			585								
6.58			295								
6.96			1546								
7.38			8006								
7.83			4422								
8.08	8.01	8.15	31919	522758	Tetrachloro-m-Xylene	0.061057	10.71175		101.8	70 - 125	
8.45			432								
8.86			3310								
9.07			294								
9.49			404								
9.74			2259								
9.92			2321								
10.14			1548								
10.19			1861								
10.38			375								
10.49			555								
10.76			2998								
10.94			587								
11.12	11.02	11.16	995	689518	delta-BHC	0.001442	0.252910	1.789474			J
11.24			145								
11.37			201								
11.46			534								
11.62			204								
11.77			305								
11.86			1803								
12.08			527								
12.20			313								
12.44			768								
12.60			422								

6/3/10

CompuChem

Lab Smp Id : 1005129-11 Client Smp Id : SS58-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS58-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.73		319								
12.79		309								
12.97		344								
13.09		248								
13.21		200								
13.29		407								
13.44		3653								
13.62		546								
13.74		320								
13.93		247								
14.07		334								
14.20		696								
14.28	14.27 14.41	4266	516712	alpha-Chlordane	0.008254	1.448089	1.789474			J
14.61		351								
14.80		561								
14.96		138								
15.11		305								
15.21		215								
15.37		186								
15.51		6209								
15.62		670								
15.74		381								
15.84		160								
15.94		133								
16.12	16.09 16.23	1064	450326	Endosulfan II	0.002361	0.414125	3.473684			J
16.27		228								
16.41	16.35 16.49	1792	454781	4,4'-DDT	0.003940	0.691291	3.473684			J
16.63		389								
16.66		179								
16.71		503								
16.86		354								
16.94		846								
17.11		464								
17.25		158791								
17.85		121								
17.94		863								
18.04		359								

CompuChem

Lab Smp Id : 1005129-11 Client Smp Id : SS58-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS58-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.09		366								
18.13		923								
18.30		298								
18.37		379								
18.51		140								
18.62		306								
18.73		207								
18.80		751								
18.94		200								
19.09		228								
19.19		455								
19.34		590								
19.73		346								
19.97		120								
20.19		169								
20.29		175								
20.36		322								
20.55		590								
20.70	20.63 20.77	42177	408350	Decachlorobiphenyl	0.103286	18.12042		86.1	55 - 130	
20.89		487								
21.05		398								
21.14		1186								
21.34		1375								
21.46		820								
21.52		323								
21.69		1525								
21.98		1141								
22.18		9332								
22.39		370								
22.55		502								
22.68		670								
22.94		192								
23.23		250								
23.80		3097								
24.65		547								
24.91		405								

Data File: /chem/tracegc84.i/j100528d_2C.b/069j1005129-11.d

Date : 30-MAY-2010 01:37

Client ID: SS58-0-1

Instrument: tracegc84.i

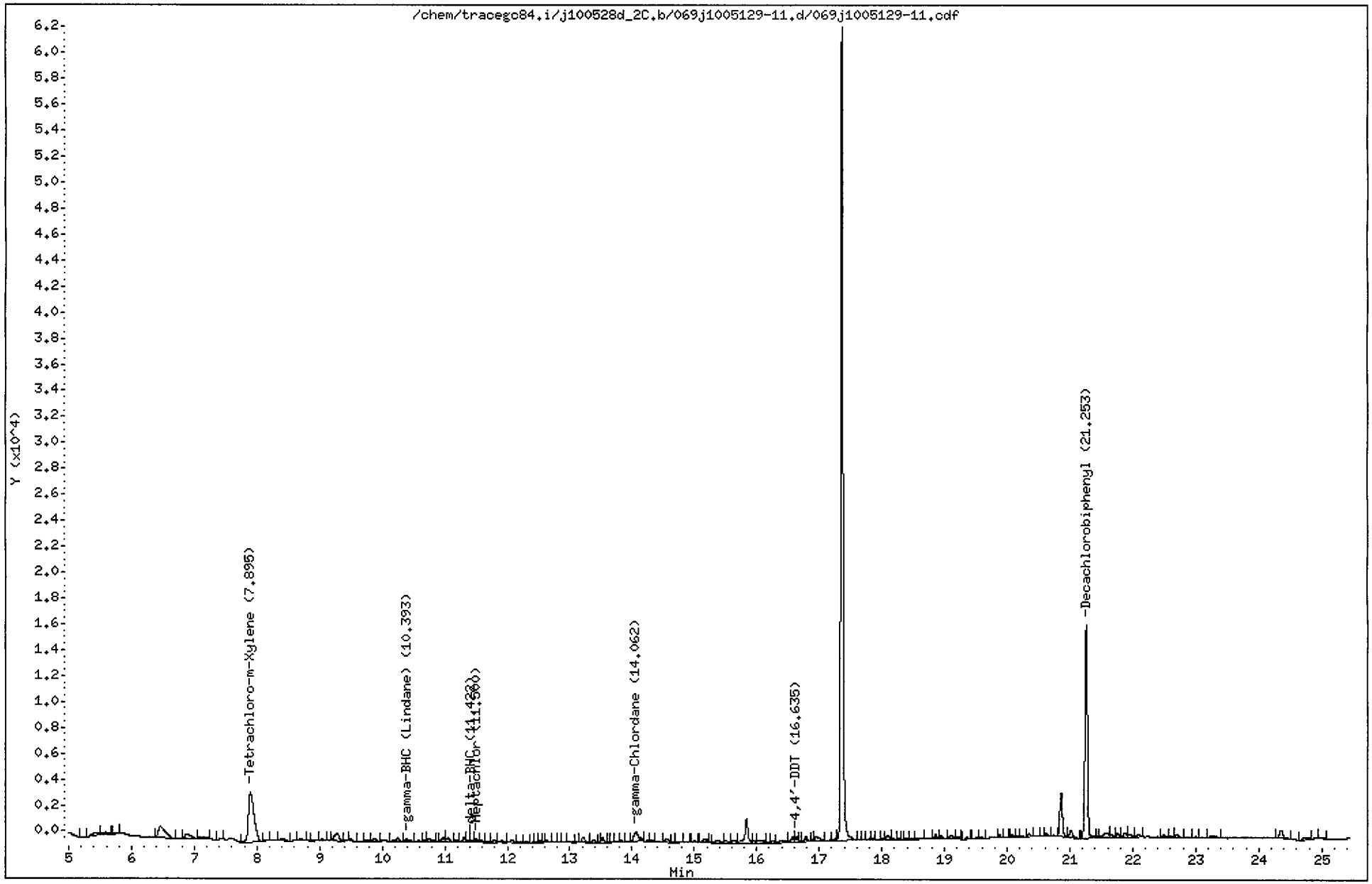
Sample Info: 1005129-11

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-11 Client Smp Id : SS58-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:37 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS58-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.05		548556								
3.16		1295								
4.30		1300								
4.99		1128								
5.43		1005								
5.58		842								
5.79		112								
6.46		6767								
6.88		2324								
7.15		566								
7.41		99								
7.90	7.82 7.96	23458	416798	Tetrachloro-m-Xylene	0.056282	9.873952		93.8	70 - 125	
8.16		144								
8.40		1011								
8.69		518								
8.93		455								
9.04		456								
9.28		2794								
9.49		352								
9.76		301								
9.87		759								
10.25		1768								
10.39	10.39 10.53	1120	585542	gamma-BHC (Lindane)	0.001911	0.335272	1.789474			J
10.58		263								
10.68		186								
10.75		665								
10.97		1528								
11.05		1206								
11.19		567								
11.30		1262								
11.38		488								
11.42	11.33 11.47	697	551235	delta-BHC	0.001264	0.221830	1.789474			J
11.50	11.45 11.59	822	579497	Heptachlor	0.001417	0.248552	1.789474			J
11.59		409								
11.67		278								
11.79		574								
11.90		408								

CompuChem

Lab Smp Id : 1005129-11 Client Smp Id : SS58-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS58-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.07		619								
12.20		246								
12.30		241								
12.40		113								
12.48		147								
12.52		403								
12.59		147								
12.64		434								
12.73		151								
12.91		149								
12.99		394								
13.21		1411								
13.39		847								
13.47		153								
13.52		1069								
13.62		177								
13.67		191								
13.75		141								
13.83		307								
14.06	13.95 14.09	3805	513150	gamma-Chlordane	0.007413	1.300533	1.789474			J
14.31		354								
14.56		1065								
14.66		193								
14.74		374								
14.88		222								
15.01		205								
15.17		737								
15.37		1314								
15.50		1151								
15.63		1083								
15.84		6868								
15.95		588								
16.03		1599								
16.18		583								
16.27		777								
16.45		1410								
16.57		1483								

CompuChem

Lab Smp Id : 1005129-11 Client Smp Id : SS58-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS58-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.64		1184								
16.68		276								
16.79		1309								
16.89		203								
16.95		1674								
17.27		585								
17.36		151026								
17.63		168								
17.70		93								
17.80		210								
17.86		206								
17.93		102								
18.00		182								
18.09		984								
18.18		340								
18.27		104								
18.39		122								
18.48		188								
18.59		400								
18.86		866								
18.94		828								
19.12		1194								
19.20		452								
19.36		364								
19.50		233								
19.57		339								
19.87		367								
19.97		116								
20.09		437								
20.22		128								
20.35		560								
20.56		94								
20.62		796								
20.74		370								
20.86		9564								
21.01		1890								
21.25	21.18 21.32	44425	406698	Decachlorobiphenyl	0.109234	19.16378		91.0	55 - 130	

CompuChem

Lab Smp Id : 1005129-11 Client Smp Id : SS58-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 01:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS58-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.57		1637								
21.66		632								
21.76		748								
21.87		980								
21.95		824								
22.09		605								
22.50		657								
22.63		376								
22.70		871								
23.00		117								
23.31		755								
24.35		2682								
24.75		1084								
25.00		369								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS59-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	0.24	JP
319-85-7	beta-BHC	0.90	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.54	JP
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.2	J
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	0.25	JP
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

Data File: /chem/tracegc84.i/j100528d.b/073j1005129-15.d

Date : 30-MAY-2010 03:33

Client ID: SS59-00-01

Instrument: tracegc84.i

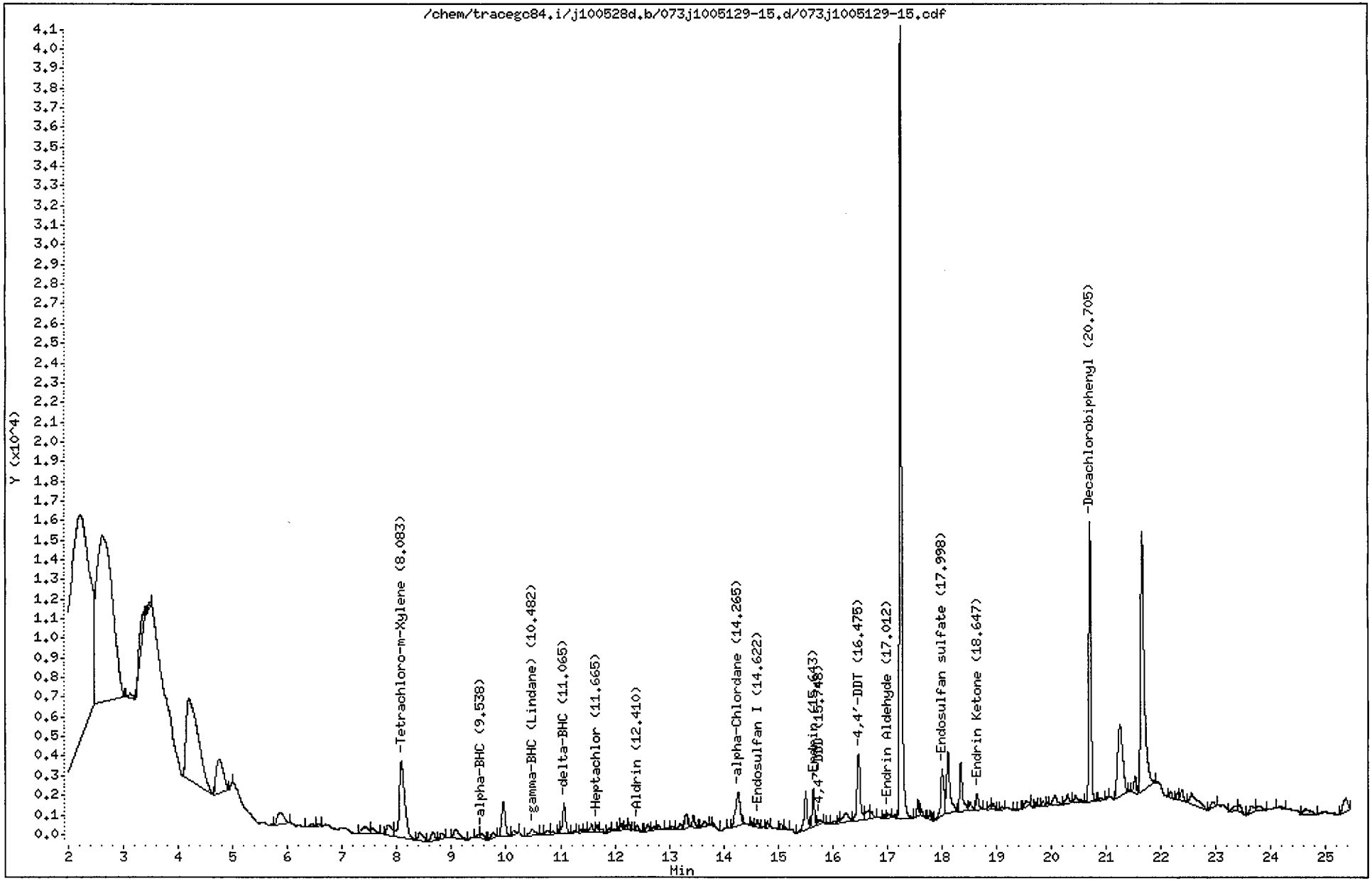
Sample Info: 1005129-15

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-15 Client Smp Id : SS59-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS59-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.14			184								
1.24			273								
1.57			60615								
1.78			27927								
2.23			319602								
2.63			168938								
3.13			1213								
3.38			9810								
3.48			1256								
4.21			64553								
4.75			15789								
4.99			335								
5.87			5012								
6.45			699								
6.55			419								
7.41			2466								
7.55			1277								
7.85			3679								
8.08	8.01	8.15	27163	522758	Tetrachloro-m-Xylene	0.051959	9.115628		86.6	70 - 125	
8.42			2640								
8.66			2392								
8.82			1533								
9.08			3374								
9.48			466								
9.54	9.53	9.67	1145	775960	alpha-BHC	0.001474	0.258650	1.789474			J
9.76			1567								
9.95			8028								
10.14			997								
10.48	10.36	10.50	2795	729192	gamma-BHC (Lindane)	0.003832	0.672217	1.789474			J
10.66			295								
10.77			1133								
10.86			499								
10.98			436								
11.06	11.02	11.16	5781	689518	delta-BHC	0.008383	1.470644	1.789474			J
11.25			182								
11.37			436								
11.45			509								

6/3/10

CompuChem

Lab Smp Id : 1005129-15 Client Smp Id : SS59-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS59-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.57		1472								
11.66	11.55 11.69	996	695465	Heptachlor	0.001431	0.251000	1.789474			J
11.76		625								
11.89		681								
12.00		262								
12.08		408								
12.12		904								
12.21		552								
12.26		1028								
12.41	12.27 12.41	888	636570	Aldrin	0.001395	0.244733	1.789474			J
12.60		1192								
12.72		497								
12.80		705								
12.97		213								
13.06		389								
13.20		892								
13.31		2498								
13.45		2058								
13.64		1220								
13.82		572								
14.09		129								
14.26	14.27 14.41	9825	516712	alpha-Chlordane	0.019013	3.335528	1.789474			J
14.52		493								
14.62	14.57 14.71	1089	548162	Endosulfan I	0.001985	0.348213	1.789474			J
14.80		706								
15.06		850								
15.12		442								
15.51		7297								
15.64	15.61 15.75	5725	463071	Endrin	0.012363	2.168966	3.473684			J
15.75	15.75 15.89	925	393458	4,4'-DDD	0.002351	0.412448	3.473684			J
15.92		130								
16.02		586								
16.12		522								
16.25		3066								
16.48	16.35 16.49	13972	454781	4,4'-DDT	0.030720	5.389520	3.473684			
16.62		2386								
16.71		1027								

CompuChem

Lab Smp Id : 1005129-15 Client Smp Id : SS59-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS59-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.94		360								
17.01	17.00 17.14	844	348470	Endrin Aldehyde	0.002419	0.424412	3.473684			J
17.13		513								
17.25		109014								
17.56		2047								
17.63		837								
17.79		1062								
18.00	17.93 18.07	9215	392055	Endosulfan sulfate	0.023502	4.123124	3.473684			
18.11		13154								
18.34		8776								
18.51		1620								
18.65	18.53 18.67	2765	457258	Endrin Ketone	0.006045	1.060480	3.473684			J
18.87		708								
18.94		1114								
19.10		386								
19.34		188								
19.43		157								
19.54		1324								
19.72		665								
19.84		747								
19.93		329								
20.06		2886								
20.29		1870								
20.44		1647								
20.70	20.63 20.77	39333	408350	Decachlorobiphenyl	0.096322	16.89856		80.3	55 - 130	
20.91		461								
21.02		250								
21.25		23236								
21.52		2365								
21.65		60966								
22.17		955								
22.30		990								
22.38		1850								
22.55		5123								
22.94		1363								
23.34		1421								
23.43		1624								

CompuChem

Lab Smp Id : 1005129-15 Client Smp Id : SS59-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS59-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.65		1889								
23.79		1371								
24.17		577								
24.64		2875								
25.36		4003								

Data File: /chem/tracegc84.i/j100528d_2C.b/073j1005129-15.d

Date : 30-MAY-2010 03:33

Client ID: SS59-00-01

Instrument: tracegc84.i

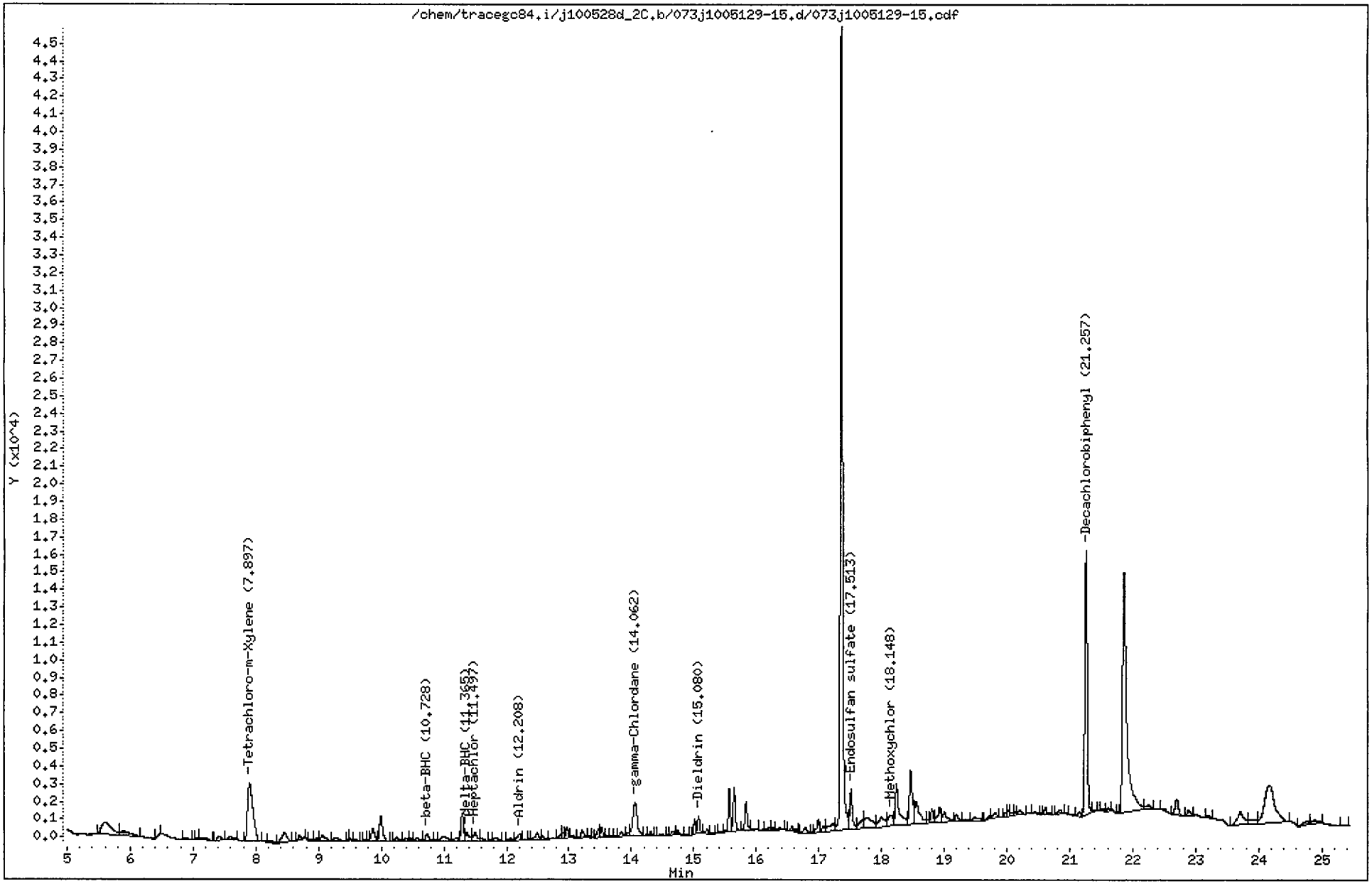
Sample Info: 1005129-15

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-15 Client Smp Id : SS59-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS59-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.27			255								
2.03			345518								
2.26			329297								
2.74			119102								
3.06			121648								
3.75			5966								
4.29			3780								
4.33			11978								
4.71			5450								
5.61			7729								
5.88			2499								
6.49			178								
6.88			295								
7.07			161								
7.13			1074								
7.42			995								
7.59			1104								
7.90	7.82	7.96	19652	416798	Tetrachloro-m-Xylene	0.047148	8.271508		78.6	70 - 125	
8.14			221								
8.23			650								
8.46			3349								
8.69			919								
8.88			123								
8.96			448								
9.06			1612								
9.28			1260								
9.49			202								
9.60			437								
9.76			290								
9.81			290								
9.86			2802								
9.99			5161								
10.24			823								
10.39			574								
10.47			416								
10.57			712								
10.73	10.63	10.77	1408	248610	beta-BHC	0.005663	0.993595	0.895789			

RSH 6/3/10

CompuChem

Lab Smp Id : 1005129-15 Client Smp Id : SS59-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS59-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.98		1462								
11.20		626								
11.29		4417								
11.36	11.33 11.47	1687	551235	delta-BHC	0.003060	0.536912	1.789474			J
11.50	11.45 11.59	1890	579497	Heptachlor	0.003260	0.571881	1.789474			J
11.60		437								
11.73		100								
11.81		714								
12.07		349								
12.21	12.21 12.35	1222	542192	Aldrin	0.002252	0.395082	1.789474			J
12.36		96								
12.49		1368								
12.58		463								
12.87		490								
12.90		741								
12.96		1607								
13.05		482								
13.21		1476								
13.34		195								
13.47		1304								
13.53		1236								
13.60		106								
13.68		184								
13.74		95								
13.84		861								
13.95		469								
14.06	13.95 14.09	9438	513150	gamma-Chlordane	0.018390	3.226374	1.789474			
14.31		389								
14.49		408								
14.58		136								
14.67		753								
14.74		814								
14.89		124								
15.02		1804								
15.08	14.99 15.13	2270	461929	Dieldrin	0.004914	0.862136	3.473684			J
15.21		632								
15.29		167								

CompuChem

Lab Smp Id : 1005129-15 Client Smp Id : SS59-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS59-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.43		122								
15.50		214								
15.57		5249								
15.65		5902								
15.84		4343								
15.96		343								
16.20		547								
16.27		246								
16.39		477								
16.57		973								
16.78		1174								
16.99		1846								
17.07		834								
17.23		2704								
17.36		111804								
17.51	17.42 17.56	6675	366674	Endosulfan sulfate	0.018201	3.193240	3.473684			J
17.70		2378								
17.76		4735								
18.00		3700								
18.15	18.03 18.17	3377	182916	Methoxychlor	0.018462	3.238956	17.89474			J
18.24		10434								
18.46		10510								
18.55		6737								
18.74		495								
18.80		2273								
18.93		3138								
19.00		2534								
19.20		1266								
19.35		418								
19.49		1275								
19.73		477								
19.81		975								
19.98		523								
20.02		892								
20.08		573								
20.13		339								
20.21		939								

CompuChem

Lab Smp Id : 1005129-15 Client Smp Id : SS59-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS59-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.45		413								
20.61		975								
20.86		918								
21.02		282								
21.15		732								
21.26	21.18 21.32	40072	406698	Decachlorobiphenyl	0.098530	17.28601		82.1	55 - 130	
21.40		282								
21.53		417								
21.61		352								
21.67		315								
21.86		64478								
22.25		1229								
22.49		569								
22.70		3281								
22.89		1114								
23.21		494								
23.71		5196								
23.88		1824								
24.17		24362								
24.77		1182								
24.89		1194								
25.38		175								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS60-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.94	U
319-84-6	alpha-BHC	0.43	J
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	0.82	J
60-57-1	Dieldrin	0.49	JP
959-98-8	Endosulfan I	0.21	JP
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	5.1	P
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	1.1	JP
76-44-8	Heptachlor	0.23	JP
1024-57-3	Heptachlor Epoxide	0.20	JP
72-43-5	Methoxychlor	24	P
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	13	
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	0.22	JP

Data File: /chem/tracegc84.i/j100528d.b/072j1005129-14.d

Date : 30-MAY-2010 03:04

Client ID: SS60-00-01

Instrument: tracegc84.i

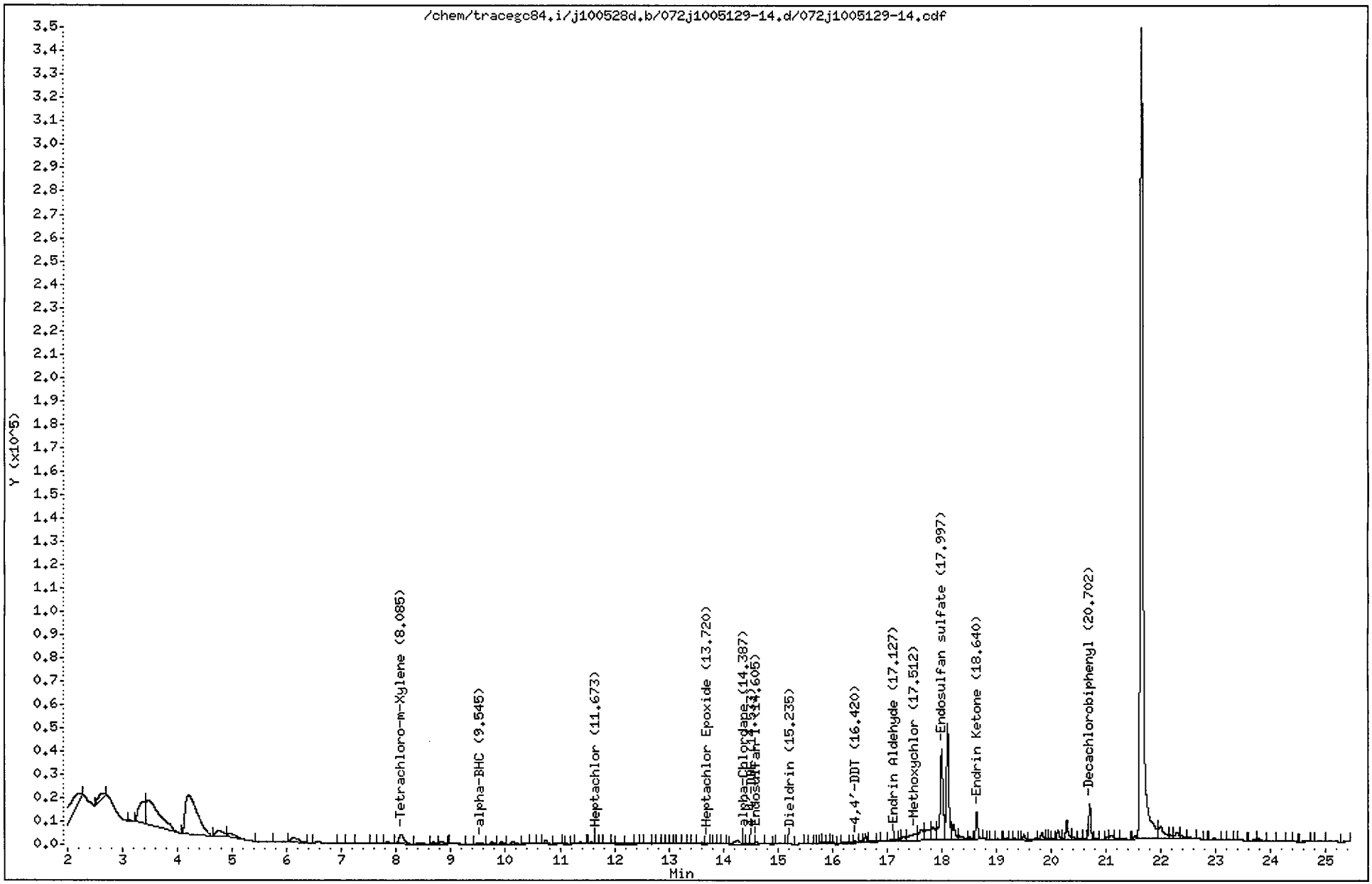
Sample Info: 1005129-14

Volume Injected (uL): 1.0

Operator: AHW

Column phase: olpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-14 Client Smp Id : SS60-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:04 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS60-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.13			178								
1.25			382								
1.58			23448								
2.22			47973								
2.64			20525								
3.13			1019								
3.38			70577								
3.47			190058								
4.21			267821								
4.75			25077								
4.97			17832								
5.86			4289								
6.11			20174								
6.45			155								
7.01			620								
7.45			2591								
7.56			1130								
7.70			380								
7.84			3340								
8.08	8.01	8.15	26197	522758	Tetrachloro-m-Xylene	0.050111	9.177873		83.5	70 - 125	
8.42			4753								
8.68			3523								
8.81			5073								
9.04			3300								
9.36			280								
9.54	9.53	9.67	2420	775960	alpha-BHC	0.003119	0.571194	1.868132			J
9.75			2845								
9.92			3500								
10.13			5107								
10.36			1294								
10.46			752								
10.66			382								
10.74			5671								
10.93			1806								
11.12			195								
11.22			345								
11.36			2431								

CompuChem

Lab Smp Id : 1005129-14 Client Smp Id : SS60-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:04 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS60-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.51		438								
11.57		2047								
11.67	11.55 11.69	856	695465	Heptachlor	0.001229	0.225164	1.868132			J
11.75		202								
11.86		1073								
12.08		1784								
12.26		1428								
12.42		393								
12.59		1051								
12.73		247								
12.80		968								
12.90		471								
12.96		413								
13.04		409								
13.13		340								
13.18		882								
13.29		530								
13.39		243								
13.44		1171								
13.60		1737								
13.72	13.68 13.82	662	593700	Heptachlor Epoxide	0.001113	0.203912	1.868132			J
13.81		409								
13.84		672								
13.92		715								
14.03		340								
14.26		10515								
14.39	14.27 14.41	1621	516712	alpha-Chlordane	0.003137	0.574568	1.868132			J
14.44		1389								
14.53	14.45 14.59	1891	523741	4,4'-DDE	0.003611	0.661275	3.626374			J
14.60	14.57 14.71	4055	548162	Endosulfan I	0.007396	1.354509	1.868132			J
14.80		2117								
14.96		373								
15.02		1887								
15.24	15.10 15.24	1367	515556	Dieldrin	0.002650	0.485268	3.626374			J
15.45		1099								
15.51		749								
15.60		232								

CompuChem

Lab Smp Id : 1005129-14 Client Smp Id : SS60-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:04 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS60-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.67		123								
15.75		167								
15.80		453								
15.84		754								
15.93		358								
15.97		283								
16.03		986								
16.12		606								
16.23		2038								
16.34		176								
16.42	16.35 16.49	2049	454781	4,4'-DDT	0.004503	0.824774	3.626374			J
16.52		1388								
16.61		6703								
16.66		3409								
16.85		426								
16.94		1683								
17.13	17.00 17.14	3318	348470	Endrin Aldehyde	0.009519	1.743361	3.626374			J
17.18		3128								
17.25		2510								
17.30		7701								
17.51	17.37 17.51	24954	194359	Methoxychlor	0.128386	23.51394	18.68132			
17.62		31736								
17.75		27039								
17.84		27035								
18.00	17.93 18.07	144173	392055	Endosulfan sulfate	0.367734	67.35057	3.626374			E
18.11		154434								
18.22		23329								
18.33		6254								
18.50		2332								
18.64	18.53 18.67	31336	457258	Endrin Ketone	0.068528	12.55094	3.626374			
18.85		134								
19.02		1973								
19.12		203								
19.18		3136								
19.25		1605								
19.34		2029								
19.51		6938								

CompuChem

Lab Smp Id : 1005129-14 Client Smp Id : SS60-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:04 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS60-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.72		2689								
19.83		11227								
19.93		1925								
19.96		2481								
20.05		1300								
20.13		12976								
20.29		27840								
20.39		4270								
20.54		1472								
20.62		1259								
20.70	20.63 20.77	41843	408350	Decachlorobiphenyl	0.102468	18.76712		85.4	55 - 130	
20.82		931								
20.92		558								
21.02		3061								
21.10		6934								
21.19		2067								
21.27		2712								
21.53		3622								
21.65		1308152								
22.00		40274								
22.17		7291								
22.30		12682								
22.38		5947								
22.52		3506								
22.80		235								
22.96		1947								
23.24		700								
23.44		935								
23.71		1191								
23.79		3390								
24.04		891								
24.17		761								
24.44		450								
24.65		1439								
24.90		2280								
25.42		621								

Data File: /chem/tracegc84.i/j100528d_2C.b/072j1005129-14.d

Date : 30-MAY-2010 03:04

Client ID: SS60-00-01

Instrument: tracegc84.i

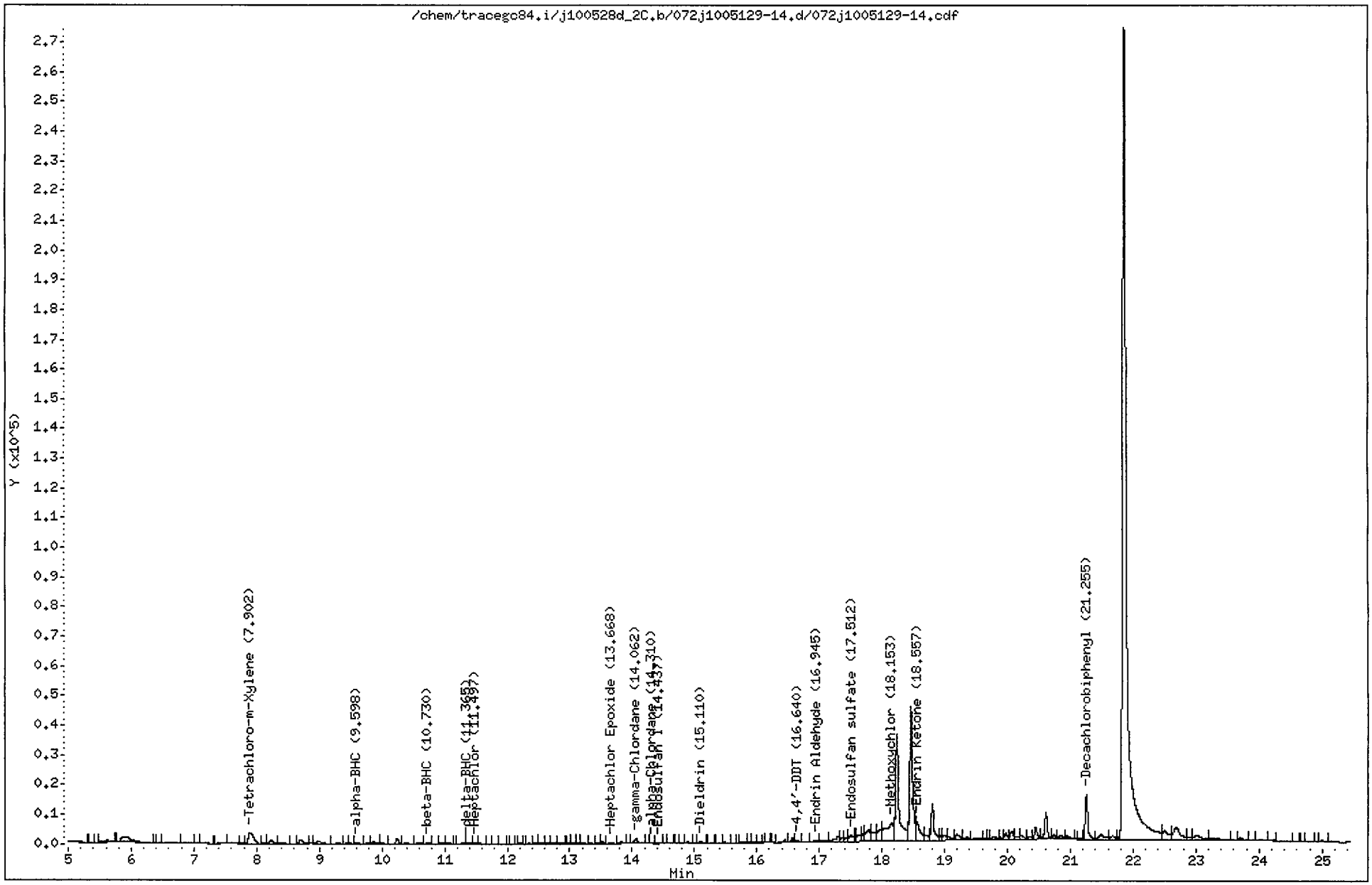
Sample Info: 1005129-14

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-14 Client Smp Id : SS60-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:04 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS60-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.25			264								
2.03			106433								
2.25			2508								
2.75			35162								
3.06			50112								
3.76			192933								
4.28			19176								
4.98			1909								
5.37			125								
5.62			3113								
5.89			18613								
6.49			123								
6.55			957								
7.08			318								
7.15			1712								
7.42			1648								
7.78			200								
7.90	7.82	7.96	21585	416798	Tetrachloro-m-Xylene	0.051788	9.484934		86.3	70 - 125	
8.14			246								
8.23			4569								
8.40			2258								
8.60			182								
8.70			5792								
8.99			3737								
9.29			509								
9.42			197								
9.49			303								
9.60	9.48	9.62	1428	607758	alpha-BHC	0.002350	0.430334	1.868132			J
9.76			560								
9.86			2983								
9.99			1061								
10.24			5645								
10.38			1101								
10.57			1426								
10.73	10.63	10.77	1575	248610	beta-BHC	0.006331	1.159561	0.935165			
10.81			455								
10.96			978								

AEH 6/3/10

CompuChem

Lab Smp Id : 1005129-14 Client Smp Id : SS60-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:04 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS60-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.06		2088								
11.31		2196								
11.36	11.33 11.47	1944	551235	delta-BHC	0.003525	0.645570	1.868132			J
11.50	11.45 11.59	1258	579497	Heptachlor	0.002171	0.397591	1.868132			J
11.56		786								
11.73		347								
11.80		729								
11.91		844								
12.07		325								
12.21		497								
12.29		101								
12.35		568								
12.45		1229								
12.51		1149								
12.64		343								
12.73		764								
12.83		734								
12.99		373								
13.04		770								
13.13		514								
13.21		683								
13.33		762								
13.48		730								
13.53		1195								
13.67	13.53 13.67	1061	511912	Heptachlor Epoxide	0.002071	0.379243	1.868132			TJ
13.83		2449								
13.93		154								
14.06	13.95 14.09	7295	513150	gamma-Chlordane	0.014214	2.603327	1.868132			
14.25		271								
14.31	14.28 14.42	551	446248	alpha-Chlordane	0.001232	0.225733	1.868132			J
14.44	14.39 14.53	548	477982	Endosulfan I	0.001144	0.209596	1.868132			J
14.53		341								
14.59		679								
14.74		347								
14.80		783								
14.90		1428								
15.00		475								

EE 6/13/10

CompuChem

Lab Smp Id : 1005129-14 Client Smp Id : SS60-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:04 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS60-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.11	14.99 15.13	2124	461929	Dieldrin	0.004598	0.842145	3.626374			J
15.30		348								
15.42		426								
15.49		757								
15.64		219								
15.70		172								
15.77		1912								
15.88		684								
15.95		593								
16.04		738								
16.11		93								
16.17		185								
16.27		376								
16.44		3511								
16.57		3495								
16.64	16.57 16.71	1989	405929	4,4'-DDT	0.004900	0.897413	3.626374			J
16.79		557								
16.94	16.83 16.97	1929	316985	Endrin Aldehyde	0.006082	1.113976	3.626374			J
17.09		2770								
17.30		9088								
17.36		4659								
17.46		4347								
17.51	17.42 17.56	10138	366674	Endosulfan sulfate	0.027646	5.063339	3.626374			M
17.57		3143								
17.64		9605								
17.70		5910								
17.78		22510								
17.87		13314								
18.00		20092								
18.15	18.03 18.17	51672	182916	Methoxychlor	0.282485	51.73722	18.68132			
18.24		136538								
18.46		145571								
18.56	18.56 18.70	30835	419519	Endrin Ketone	0.073501	13.46170	3.626374			T
18.72		7914								
18.80		38447								
18.93		4887								
19.00		5925								

CompuChem

Lab Smp Id : 1005129-14 Client Smp Id : SS60-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:04 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS60-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.07		5034								
19.19		9251								
19.36		4879								
19.50		5293								
19.64		1121								
19.70		1171								
19.77		4540								
19.89		2040								
19.98		6227								
20.07		8542								
20.13		4004								
20.22		5300								
20.34		3416								
20.45		12807								
20.61		26960								
20.74		4292								
20.85		4060								
20.95		4163								
21.16		656								
21.26	21.18 21.32	43110	406698	Decachlorobiphenyl	0.106000	19.41395		88.3	55 - 130	
21.49		11158								
21.68		5018								
21.76		1475								
21.86		1239377								
22.50		21989								
22.69		33441								
22.88		5848								
23.02		14000								
23.24		7425								
23.64		447								
23.71		3694								
23.89		1544								
24.02		1735								
24.19		244								
24.57		521								
24.71		340								
24.77		628								

CompuChem

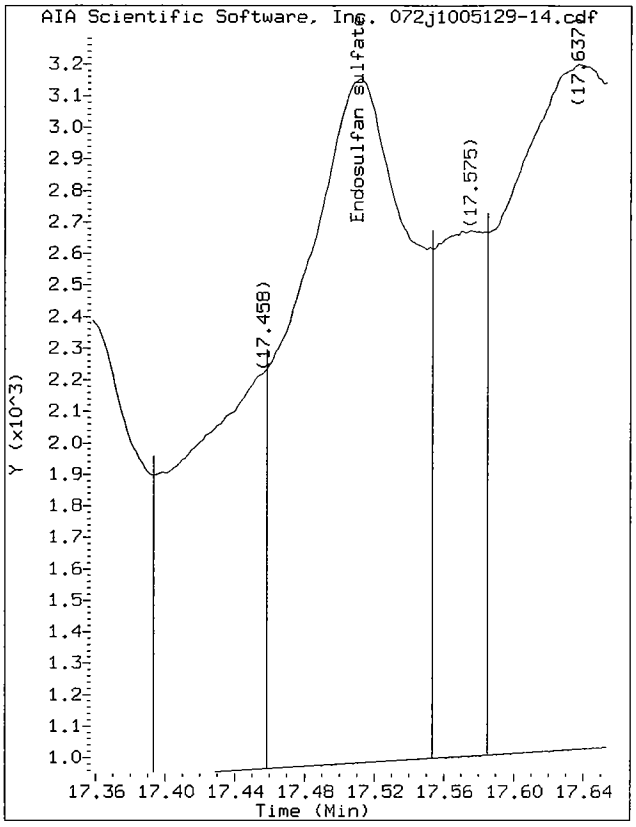
Lab Smp Id : 1005129-14 Client Smp Id : SS60-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 03:04 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS60-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

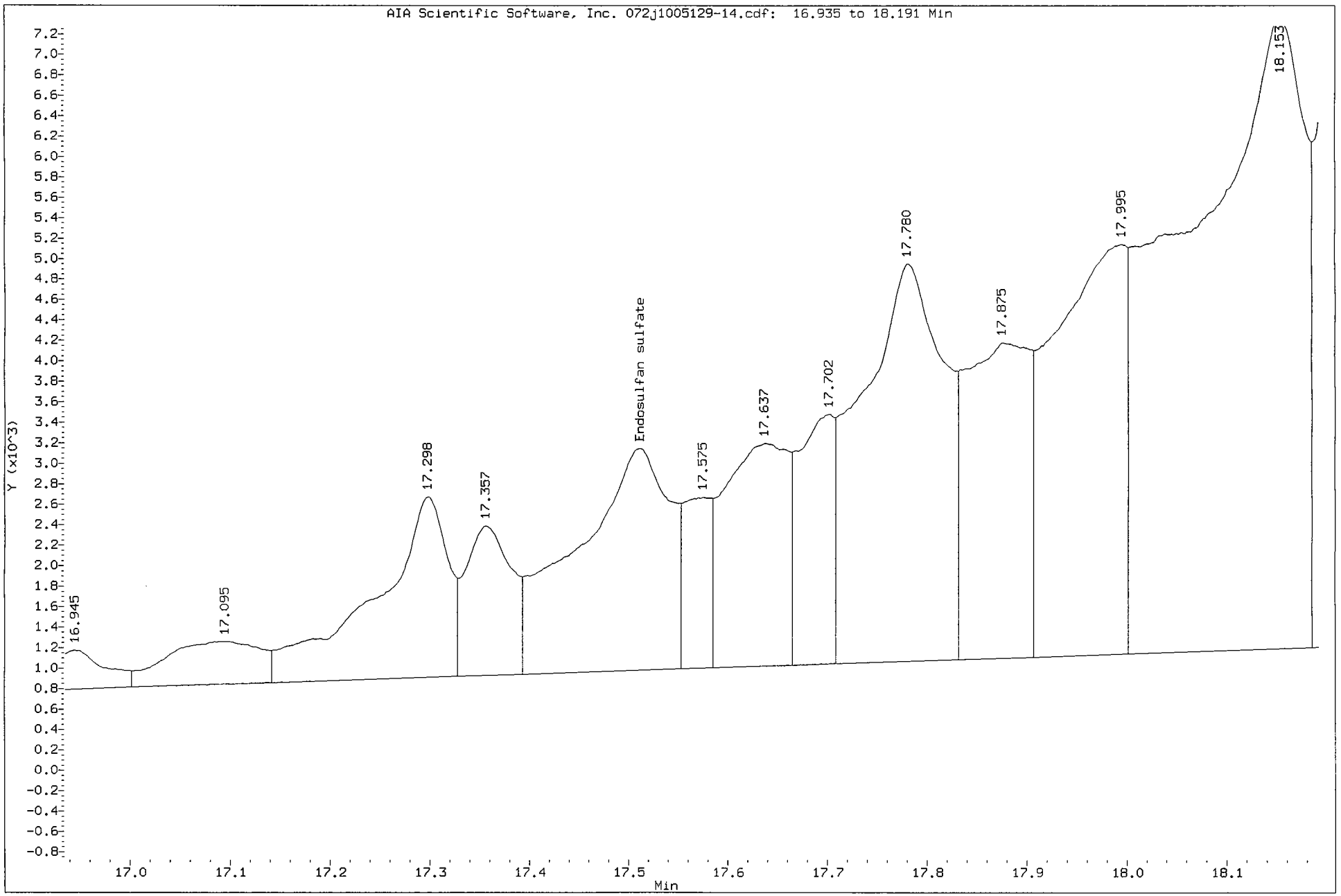
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
25.00		1445								

Manually Integrated Peaks



Start: 17.46 Stop: 17.55

Data File: /chem/tracegc84.i/j100528d_2C.b/072j1005129-14.d/072j1005129-14.cdf
Injection Date: 30-MAY-2010 03:04
Instrument: tracegc84.i
Client Sample ID: SS60-00-01



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS60-00-01DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-14RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	9.3	U
319-85-7	beta-BHC	4.7	U
319-84-6	alpha-BHC	9.3	U
319-86-8	delta-BHC	9.3	U
58-89-9	gamma-BHC (Lindane)	9.3	U
72-54-8	4,4'-DDD	18	U
72-55-9	4,4'-DDE	18	U
50-29-3	4,4'-DDT	18	U
60-57-1	Dieldrin	18	U
959-98-8	Endosulfan I	9.3	U
33213-65-9	Endosulfan II	18	U
1031-07-8	Endosulfan sulfate	18	U
72-20-8	Endrin	18	U
7421-93-4	Endrin Aldehyde	18	U
76-44-8	Heptachlor	9.3	U
1024-57-3	Heptachlor Epoxide	9.3	U
72-43-5	Methoxychlor	93	U
8001-35-2	Toxaphene	460	U
53494-70-5	Endrin Ketone	18	U
5103-74-2	gamma-Chlordane	9.3	U
5103-71-9	alpha-Chlordane	9.3	U

Data File: /chem/tracegc84.i/j100528o.b/167j1005129-14.d

Date : 03-JUN-2010 18:26

Client ID: SS60-00-01DL

Instrument: tracegc84.i

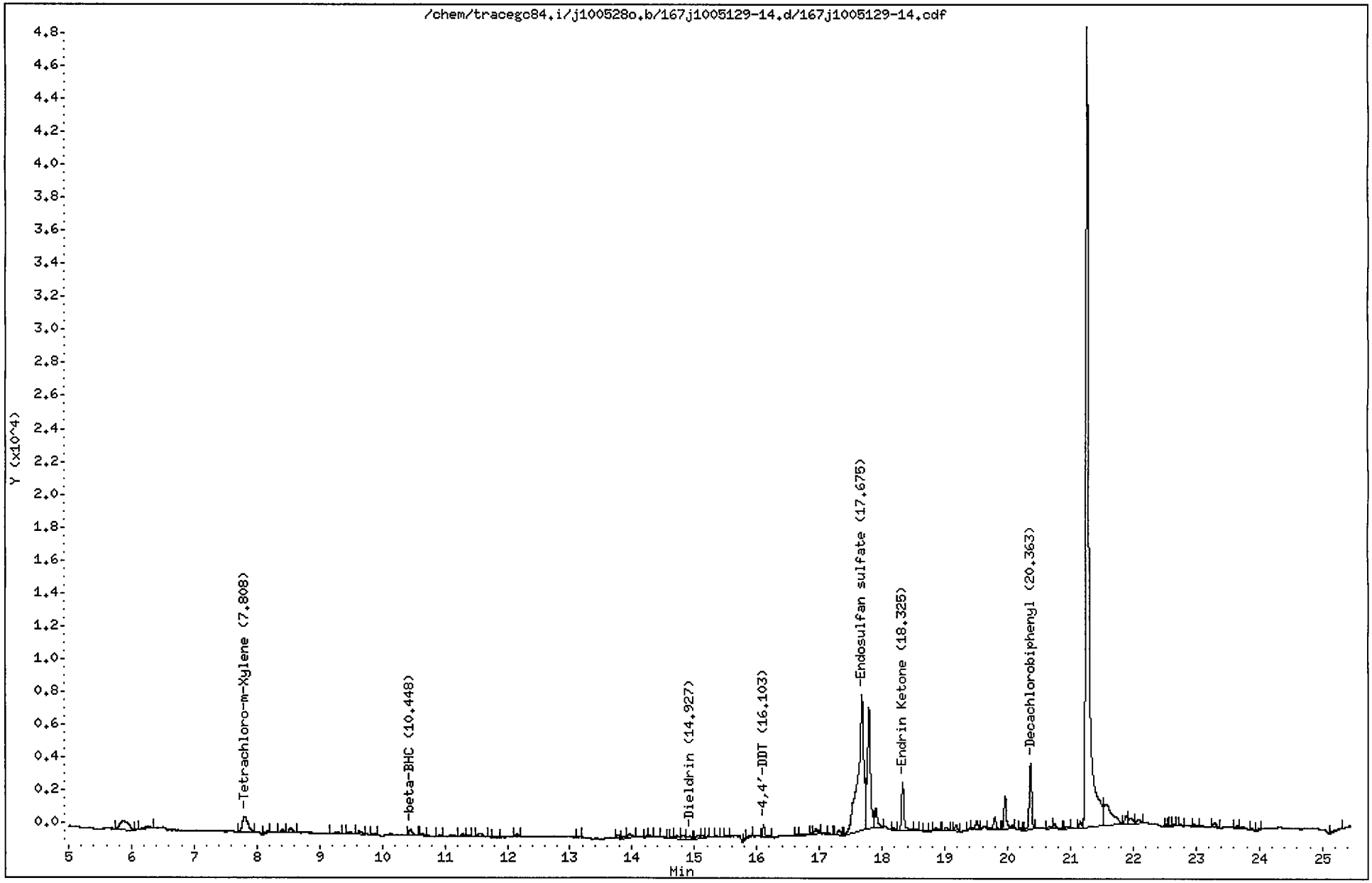
Sample Info: 1005129-14RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-14RE1 Client Smp Id : SS60-00-01DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:26 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS60-00-01DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.46		26134								
1.98		20411								
2.04		77202								
3.19		5020								
4.05		307								
4.52		567								
5.87		4636								
6.25		1198								
7.81	7.77 7.91	5555	522758	Tetrachloro-m-Xylene	0.010624	9.729331		88.5	70 - 125	
8.16		316								
8.40		640								
8.53		1153								
9.27		473								
9.46		544								
9.63		758								
9.85		184								
10.45	10.34 10.48	1152	300532	beta-BHC	0.003830	3.507206	4.675824			J
10.64		346								
10.93		184								
11.28		470								
11.37		224								
11.57		964								
11.82		462								
12.15		445								
13.14		142								
13.78		455								
13.89		487								
13.95		906								
14.23		225								
14.29		345								
14.49		183								
14.65		224								
14.71		1000								
14.81		954								
14.93	14.82 14.96	1093	515556	Dieldrin	0.002120	1.941429	18.13187			J
15.06		949								
15.13		539								

6/4/10

CompuChem

Lab Smp Id : 1005129-14RE1 Client Smp Id : SS60-00-01DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:26 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS60-00-01DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.20		235								
15.36		124								
15.52		190								
15.81		378								
15.91		488								
16.10	16.08 16.22	1946	454781	4,4'-DDT	0.004277	3.916467	18.13187			J
16.64		157								
16.87		209								
16.94		972								
17.16		173								
17.31		1073								
17.68	17.65 17.79	53093	392055	Endosulfan sulfate	0.135422	124.0131	18.13187			
17.79		26058								
17.90		3875								
18.18		370								
18.32	18.24 18.38	8145	457258	Endrin Ketone	0.017813	16.31202	18.13187			J
18.55		129								
18.69		196								
18.85		556								
19.02		436								
19.18		1131								
19.33		145								
19.39		189								
19.51		1488								
19.80		2252								
19.96		5436								
20.21		243								
20.36	20.33 20.47	10380	408350	Decachlorobiphenyl	0.025419	23.27781		105.9	55 - 130	
20.67		584								
20.75		1152								
20.93		445								
21.16		974								
21.27		171153								
21.59		12420								
21.89		1656								
21.96		1613								
22.08		906								

CompuChem

Lab Smp Id : 1005129-14RE1 Client Smp Id : SS60-00-01DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:26 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS60-00-01DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.53		142								
22.60		246								
22.64		202								
22.75		232								
22.97		358								
23.30		914								
23.63		213								
23.89		337								
24.02		183								
25.28		774								

Data File: /chem/tracegc84.i/j100528o_2C.b/167jcdf1005129-14.d

Date : 03-JUN-2010 18:26

Client ID: SS60-00-01DL

Instrument: tracegc84.i

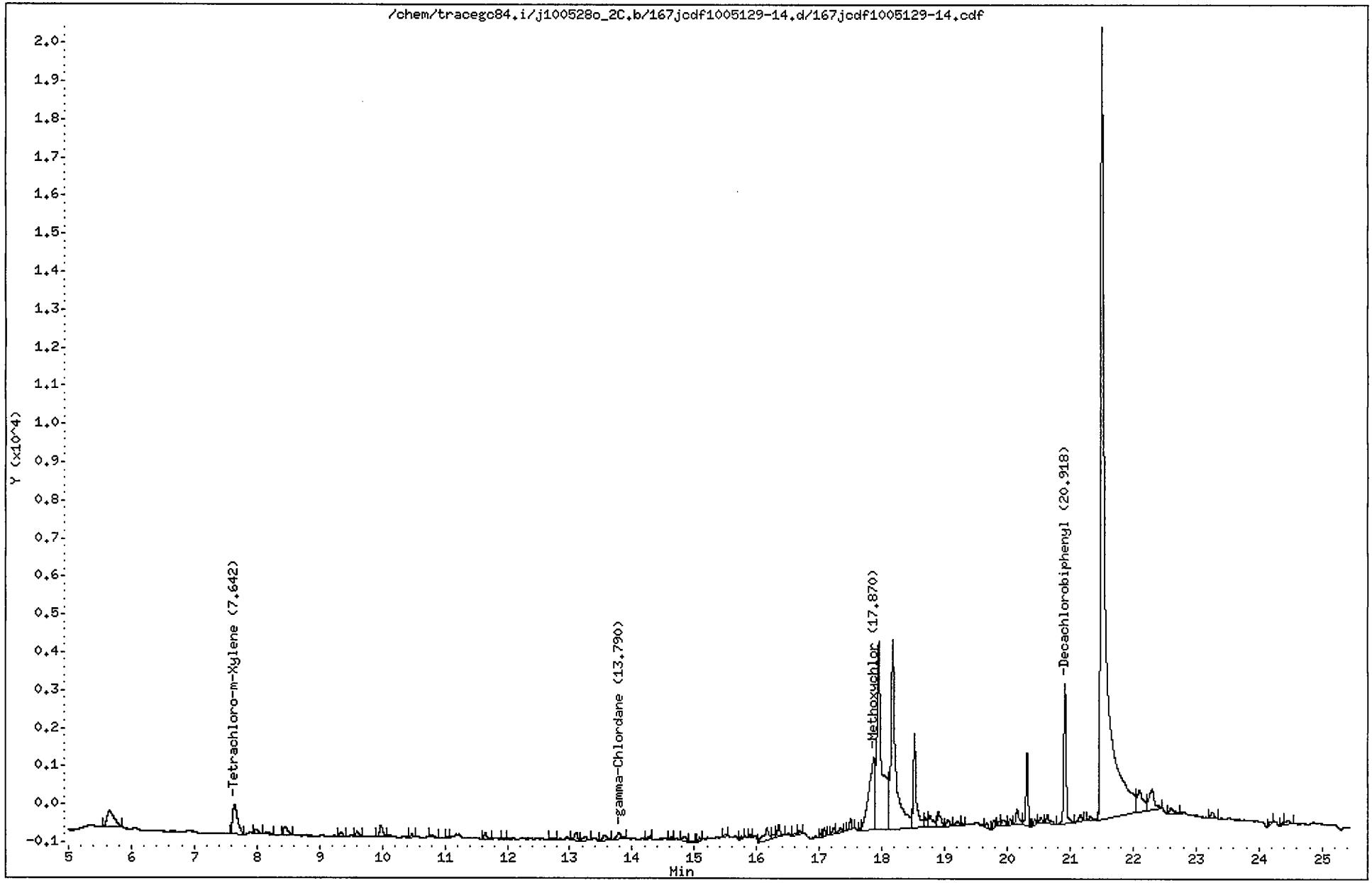
Sample Info: 1005129-14RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-14RE1 Client Smp Id : SS60-00-01DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:26 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS60-00-01DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.86		21964								
2.59		187								
2.66		1429								
4.11		625								
5.66		3404								
7.64	7.61 7.75	4428	416798	Tetrachloro-m-Xylene	0.010621	9.726616		88.5	70 - 125	
7.98		461								
8.16		315								
8.45		1096								
9.34		303								
9.60		400								
9.98		1032								
10.47		184								
10.79		284								
11.04		106								
11.65		537								
11.94		118								
12.73		220								
13.10		600								
13.25		406								
13.55		811								
13.79	13.71 13.85	686	513150	gamma-Chlordane	0.001337	1.224213	9.340659			J
14.26		206								
14.62		123								
14.85		439								
14.94		116								
15.08		155								
15.49		153								
15.76		129								
15.89		124								
16.17		1780								
16.27		378								
16.35		1065								
16.61		113								
16.68		144								
17.02		197								
17.08		481								

6/4/10

CompuChem

Lab Smp Id : 1005129-14RE1 Client Smp Id : SS60-00-01DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:26 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS60-00-01DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.23		467								
17.33		396								
17.50		722								
17.66		95								
17.87	17.79 17.93	13246	182916	Methoxychlor	0.072410	66.30988	93.40659			J
17.95		27315								
18.17		26026								
18.52		8062								
18.70		879								
18.77		1357								
18.90		1651								
19.06		698								
19.21		357								
19.28		157								
19.68		326								
19.79		526								
19.87		366								
19.93		594								
20.05		369								
20.15		1360								
20.31		4608								
20.44		437								
20.53		457								
20.64		819								
20.92	20.90 21.04	10097	406698	Decachlorobiphenyl	0.024824	22.73292		103.4	55 - 130	
21.16		505								
21.33		518								
21.50		110797								
22.10		3907								
22.30		3451								
22.60		584								
23.26		545								
24.20		237								
24.38		136								
24.45		573								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS78-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.92	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	4.0	
50-29-3	4,4'-DDT	1.4	JP
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	0.42	JP
76-44-8	Heptachlor	0.46	JP
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	89	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	0.47	JP

Data File: /chem/tracegc84.i/j100528e.b/082j1005129-20.d

Date : 30-MAY-2010 07:53

Client ID: SS78-0-1

Instrument: tracegc84.i

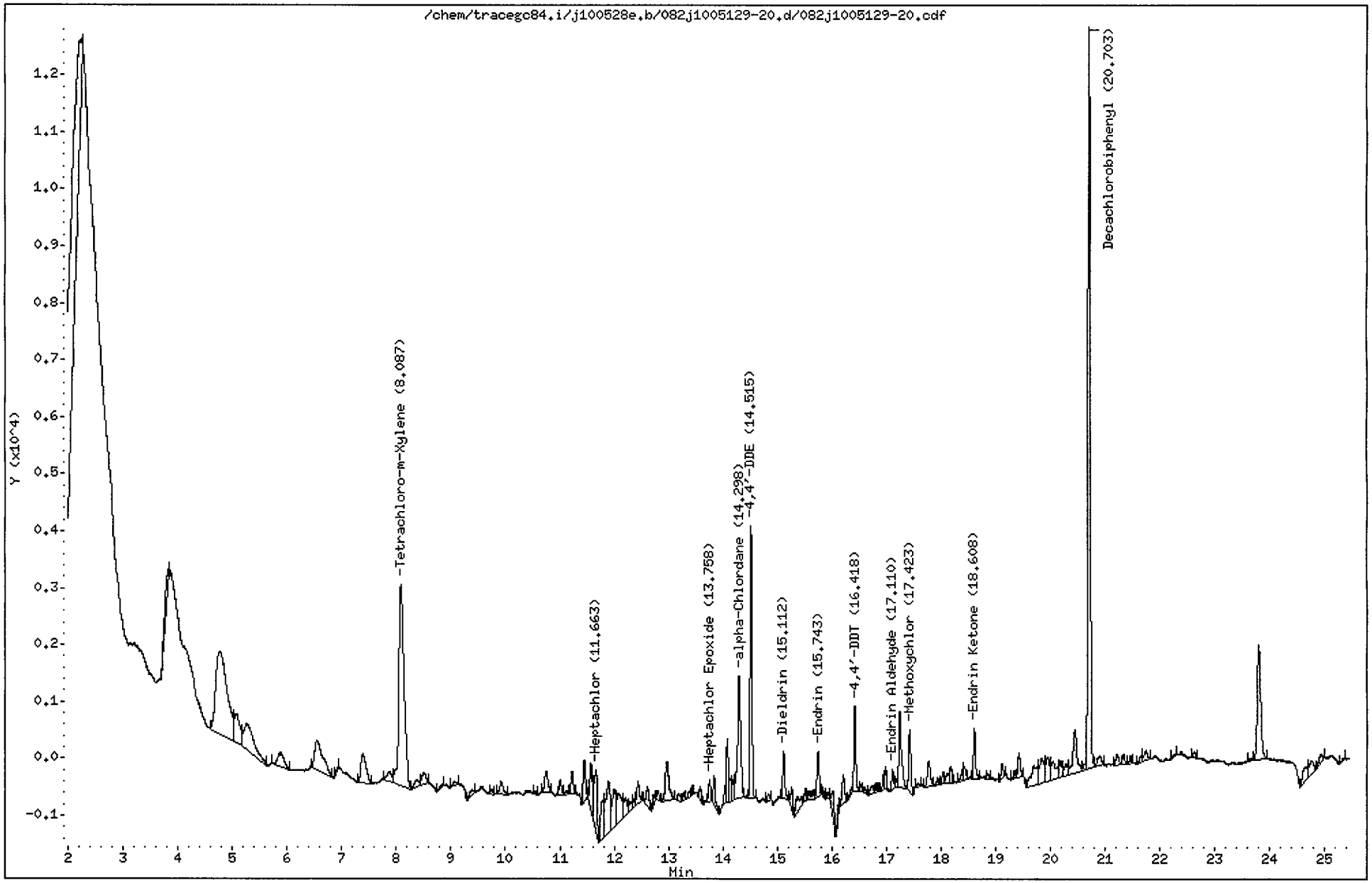
Sample Info: 1005129-20

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-20 Client Smp Id : SS78-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:53 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS78-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58		9934								
1.84		1159								
2.21		24702								
3.84		2586								
4.76		21336								
5.07		3489								
5.26		5818								
5.88		1969								
6.55		5485								
6.93		167								
7.38		3351								
7.88		1072								
8.09	8.01 8.15	23824	522758	Tetrachloro-m-Xylene	0.045572	8.166989		76.0	70 - 125	
8.38		653								
8.51		1106								
8.86		196								
9.07		321								
9.40		516								
9.74		232								
9.92		1117								
10.54		182								
10.75		1538								
11.01		808								
11.11		230								
11.22		1084								
11.45		2157								
11.57		2772								
11.66	11.55 11.69	4197	695465	Heptachlor	0.006033	1.081250	1.827957			J
11.80		3029								
11.89		5432								
12.00		3216								
12.08		3020								
12.21		1417								
12.30		671								
12.38		367								
12.44		1140								
12.61		1230								

KEH 6/3/10

CompuChem

Lab Smp Id : 1005129-20 Client Smp Id : SS78-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS78-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.72		365								
12.80		524								
12.97		3247								
13.19		443								
13.28		277								
13.38		284								
13.45		284								
13.58		573								
13.76	13.68 13.82	1008	593700	Heptachlor Epoxide	0.001698	0.304270	1.827957			J
13.84		1396								
14.05		475								
14.08		3185								
14.12		964								
14.19		1038								
14.30	14.27 14.41	8483	516712	alpha-Chlordane	0.016417	2.942160	1.827957			M 2
14.52	14.45 14.59	11605	523741	4,4'-DDE	0.022158	3.970948	3.548387			
14.83		335								
15.11	15.10 15.24	2162	515556	Dieldrin	0.004194	0.751528	3.548387			J
15.26		907								
15.37		1523								
15.52		375								
15.59		668								
15.74	15.61 15.75	2217	463071	Endrin	0.004788	0.857993	3.548387			J
15.82		404								
15.92		243								
16.01		1461								
16.13		419								
16.21		1607								
16.36		295								
16.42	16.35 16.49	3557	454781	4,4'-DDT	0.007819	1.401280	3.548387			J
16.52		278								
16.60		272								
16.74		520								
16.81		341								
16.94		473								
16.98		942								
17.11	17.00 17.14	809	348470	Endrin Aldehyde	0.002319	0.415539	3.548387			J

2 KEH 6/3/10

CompuChem

Lab Smp Id : 1005129-20 Client Smp Id : SS78-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS78-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.18		322								
17.24		4518								
17.42	17.37 17.51	2983	194359	Methoxychlor	0.015348	2.750517	18.27957			J
17.57		158								
17.77		1655								
17.94		302								
18.03		489								
18.12		643								
18.18		766								
18.39		510								
18.43		694								
18.61	18.53 18.67	2220	457258	Endrin Ketone	0.004853	0.869686	3.548387			J
18.86		256								
19.11		757								
19.34		297								
19.43		1289								
19.70		2726								
19.84		2414								
19.95		2134								
20.05		2033								
20.19		1118								
20.29		926								
20.44		3969								
20.62		304								
20.70	20.63 20.77	36347	408350	Decachlorobiphenyl	0.089009	15.95151		74.2	55 - 130	
20.90		891								
21.22		676								
21.33		508								
21.46		332								
21.65		403								
21.74		729								
22.28		127								
22.62		341								
23.66		123								
23.80		8765								
24.65		1324								
24.77		1367								

CompuChem

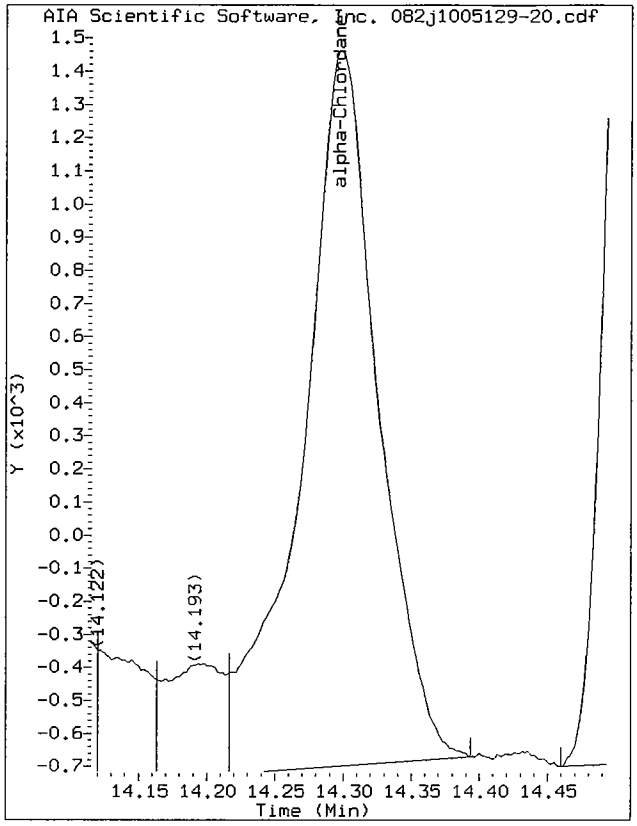
Lab Smp Id : 1005129-20 Client Smp Id : SS78-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS78-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

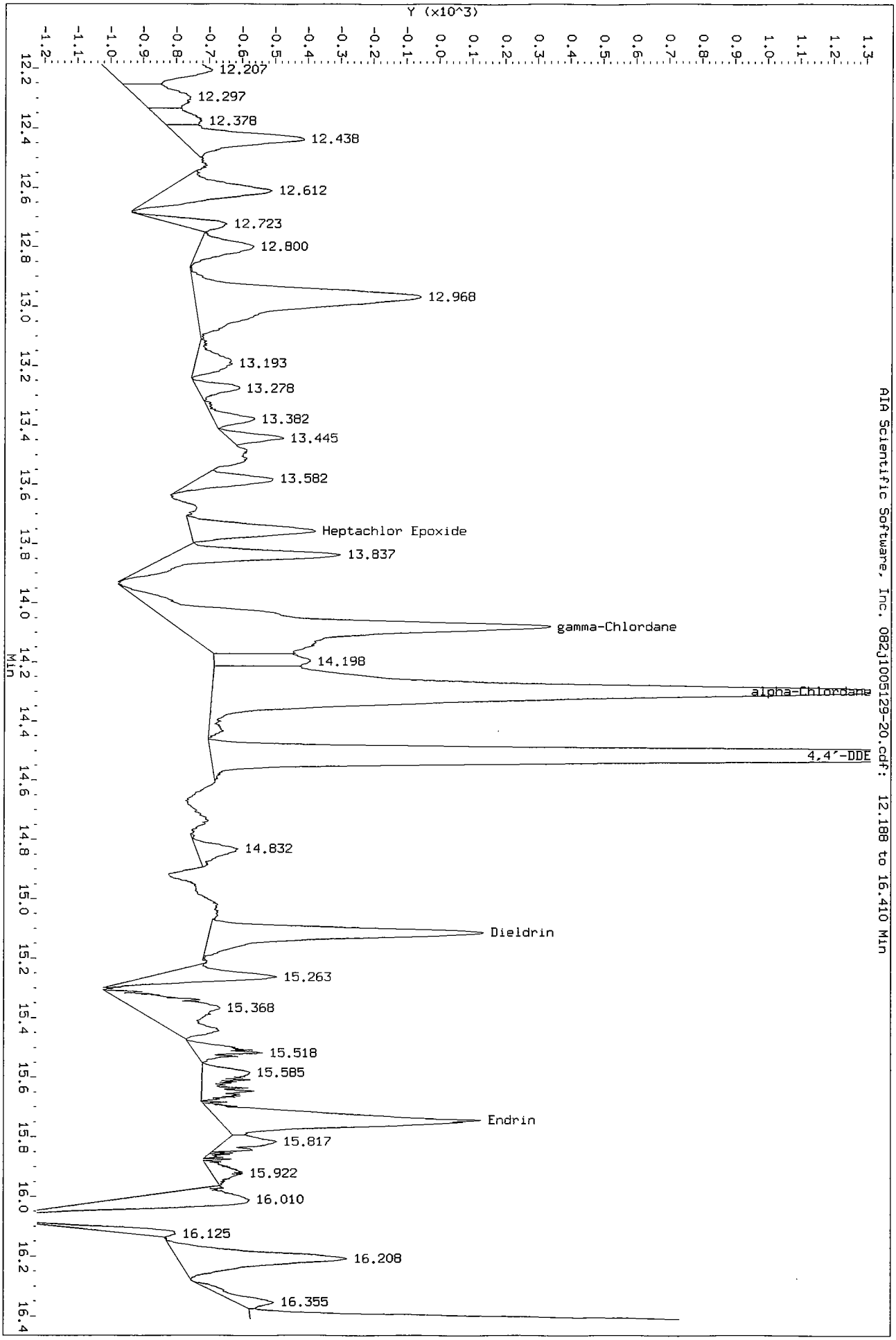
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.92		596								
25.34		137								

Manually Integrated Peaks



Start: 14.22 Stop: 14.39


Data File: /chem/tracegc84.i/j100528e.b/082j1005129-20.d/082j1005129-20.cdf
Injection Date: 30-MAY-2010 07:53
Instrument: tracegc84.i
Client Sample ID: SS78-0-1
Y (x10^3)
Min
12.207
12.297
12.378
12.438
12.612
12.723
12.800
12.968
13.193
13.278
13.382
13.445
13.582
Heptachlor Epoxide
13.837
gamma-Chlordane
14.198
alpha-Chlordane
4,4'-DDE
14.832
Dieldrin
15.263
15.368
15.518
15.585
Endrin
15.817
15.922
16.010
16.125
16.208
16.355
AIA Scientific Software, Inc. 082j1005129-20.cdf: 12.188 to 16.410 Min

Data File: /chem/tracegc84.i/j100528e_2C.b/082j1005129-20.d

Date : 30-MAY-2010 07:53

Client ID: SS78-0-1

Instrument: tracegc84.i

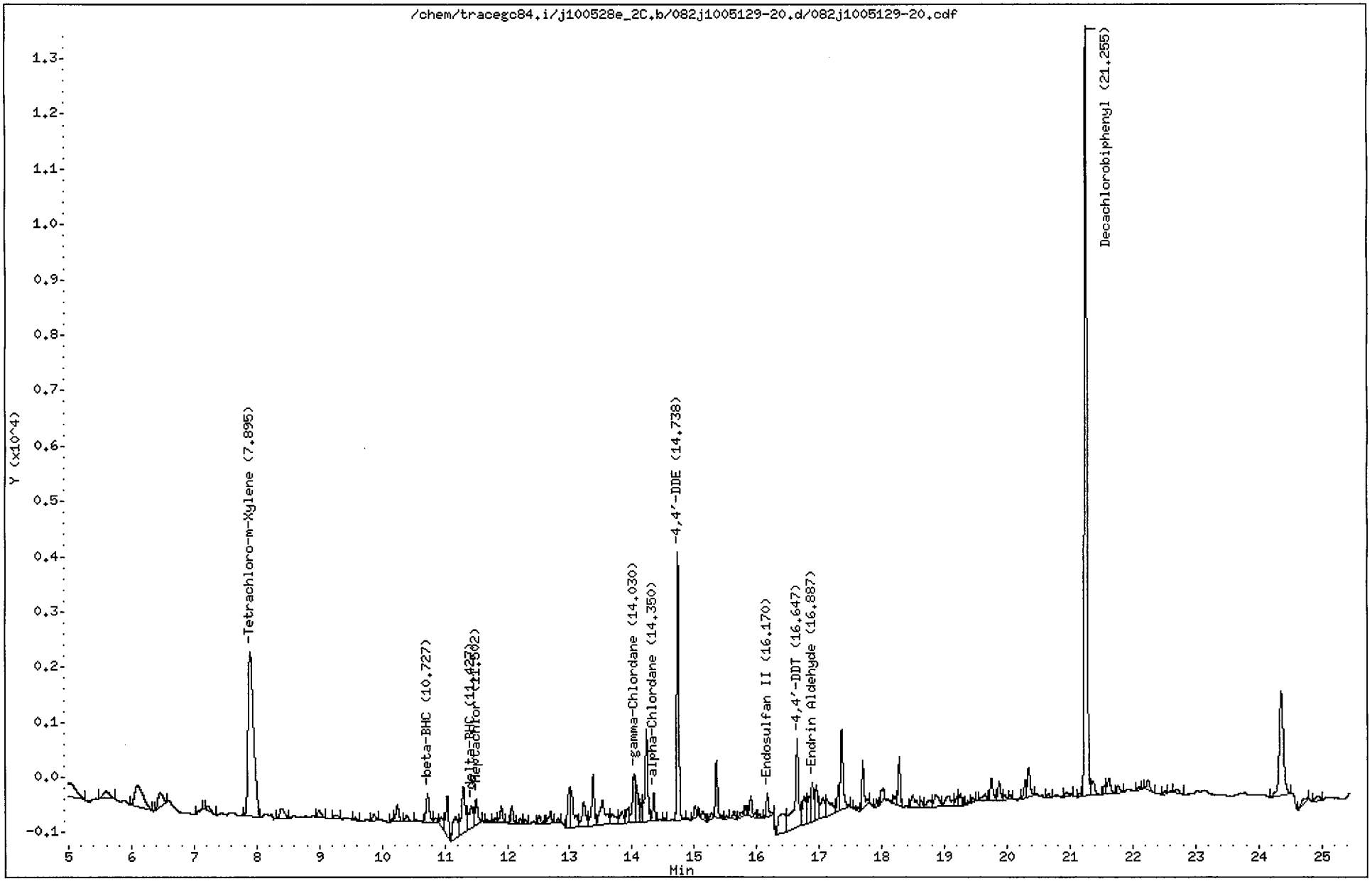
Sample Info: 1005129-20

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



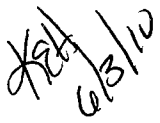
CompuChem

Lab Smp Id : 1005129-20 Client Smp Id : SS78-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:53 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS78-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.03			36040								
3.23			16809								
3.54			102								
4.33			2546								
5.04			2982								
5.59			941								
6.10			3665								
6.46			1455								
7.13			140								
7.22			356								
7.90	7.82	7.96	17784	416798	Tetrachloro-m-Xylene	0.042666	7.646201		71.1	70 - 125	
8.40			849								
8.99			484								
9.28			291								
9.57			163								
9.87			363								
10.18			178								
10.24			1017								
10.39			360								
10.73	10.63	10.77	1831	248610	beta-BHC	0.007361	1.319163	0.915054			
10.86			264								
10.94			659								
11.04			2123								
11.17			2204								
11.30			3659								
11.43	11.33	11.47	2192	551235	delta-BHC	0.003975	0.712314	1.827957			J
11.50	11.45	11.59	1503	579497	Heptachlor	0.002592	0.464499	1.827957			J
11.67			185								
11.80			216								
11.91			842								
12.07			807								
12.21			271								
12.29			194								
12.52			396								
12.70			625								
12.81			154								
12.99			2042								



CompuChem

Lab Smp Id : 1005129-20 Client Smp Id : SS78-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS78-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.03		2367								
13.22		1942								
13.37		2745								
13.53		2901								
13.68		1037								
13.83		863								
13.92		859								
14.03	13.95 14.09	2894	513150	gamma-Chlordane	0.005640	1.010695	1.827957			JM2
14.06		2030								
14.15		893								
14.23		5038								
14.35	14.28 14.42	1171	446248	alpha-Chlordane	0.002622	0.469868	1.827957			J
14.53		92								
14.74	14.67 14.81	10647	468602	4,4'-DDE	0.022721	4.071819	3.548387			
15.01		552								
15.14		532								
15.27		375								
15.36		2506								
15.51		164								
15.63		371								
15.77		283								
15.83		337								
15.91		1057								
16.04		153								
16.17	16.11 16.25	1081	404930	Endosulfan II	0.002670	0.478422	3.548387			J
16.43		2696								
16.65	16.57 16.71	7121	405929	4,4'-DDT	0.017542	3.143815	3.548387			J
16.76		2387								
16.84		1269								
16.89	16.83 16.97	2095	316985	Endrin Aldehyde	0.006606	1.183869	3.548387			J
16.95		2171								
17.06		1522								
17.12		1854								
17.31		1162								
17.36		4149								
17.58		199								
17.70		2096								

CompuChem

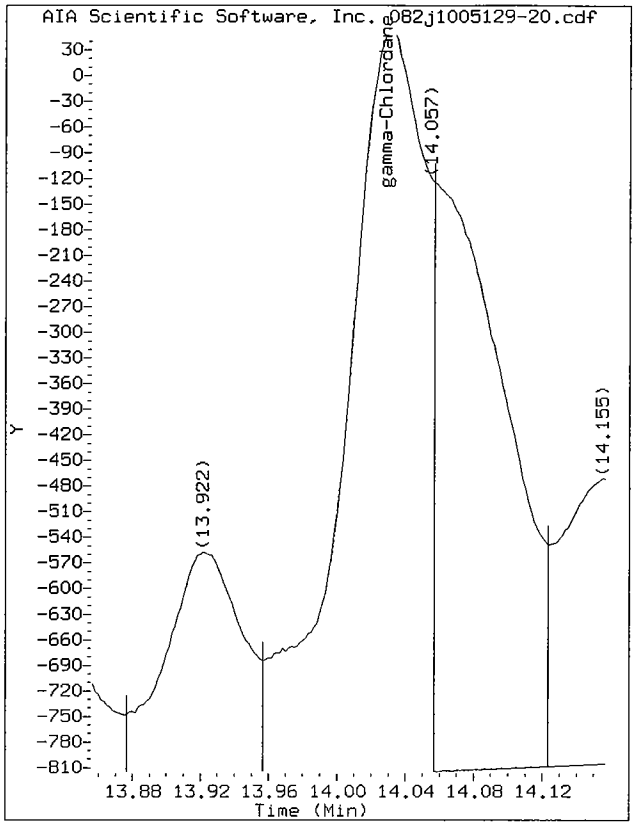
Lab Smp Id : 1005129-20 Client Smp Id : SS78-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 07:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS78-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

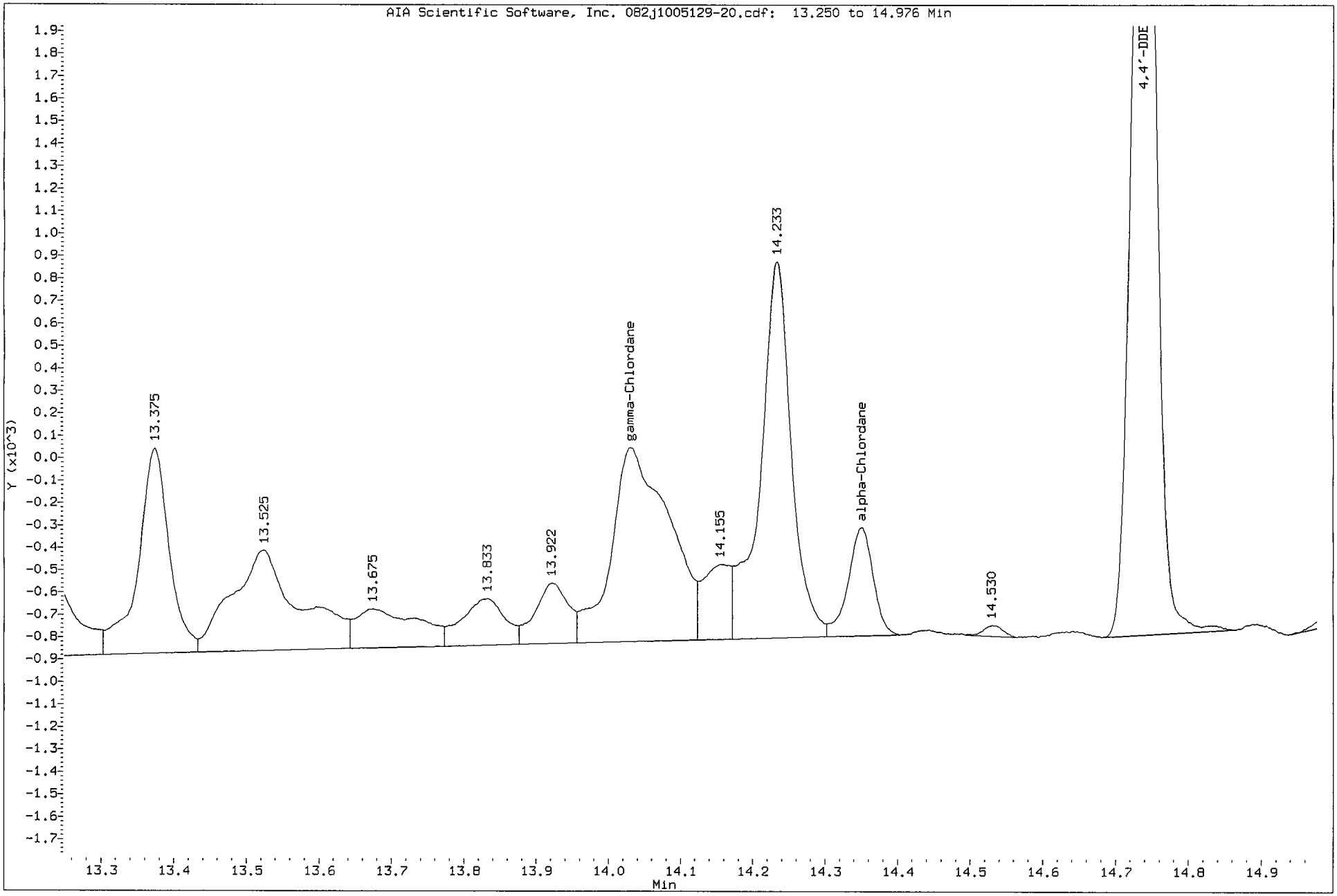
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.92		239								
17.99		867								
18.20		388								
18.28		2119								
18.49		1117								
18.63		347								
18.77		699								
18.86		1209								
19.05		1375								
19.20		481								
19.26		591								
19.37		98								
19.45		195								
19.65		601								
19.75		1259								
19.87		955								
19.96		267								
20.05		195								
20.29		843								
20.34		1602								
20.66		222								
20.94		272								
21.15		158								
21.26	21.18 21.32	37677	406698	Decachlorobiphenyl	0.092639	16.60195		77.2	55 - 130	
21.36		1067								
21.55		481								
21.61		1065								
21.77		470								
22.09		174								
22.24		613								
22.51		145								
22.70		295								
24.36		8594								
24.77		533								
24.93		495								

Manually Integrated Peaks



Start: 13.96 Stop: 14.06

Data File: /chem/tracegc84.i/j100528e_2C.b/082j1005129-20.d/082j1005129-20.cdf
Injection Date: 30-MAY-2010 07:53
Instrument: tracegc84.i
Client Sample ID: SS78-0-1



1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

SS80-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.4	J
319-85-7	beta-BHC	1.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	1.8	JP
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	2.3	J
72-55-9	4,4'-DDE	11	
50-29-3	4,4'-DDT	85	E
60-57-1	Dieldrin	1.5	JP
959-98-8	Endosulfan I	0.76	JP
33213-65-9	Endosulfan II	5.1	P
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	0.85	JP
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	0.62	JP
5103-74-2	gamma-Chlordane	11	BP
5103-71-9	alpha-Chlordane	6.3	P

Data File: /chem/tracegc84.i/j100528d.b/065j1005129-07.d

Date : 29-MAY-2010 23:42

Client ID: SS80-0-1

Instrument: tracegc84.i

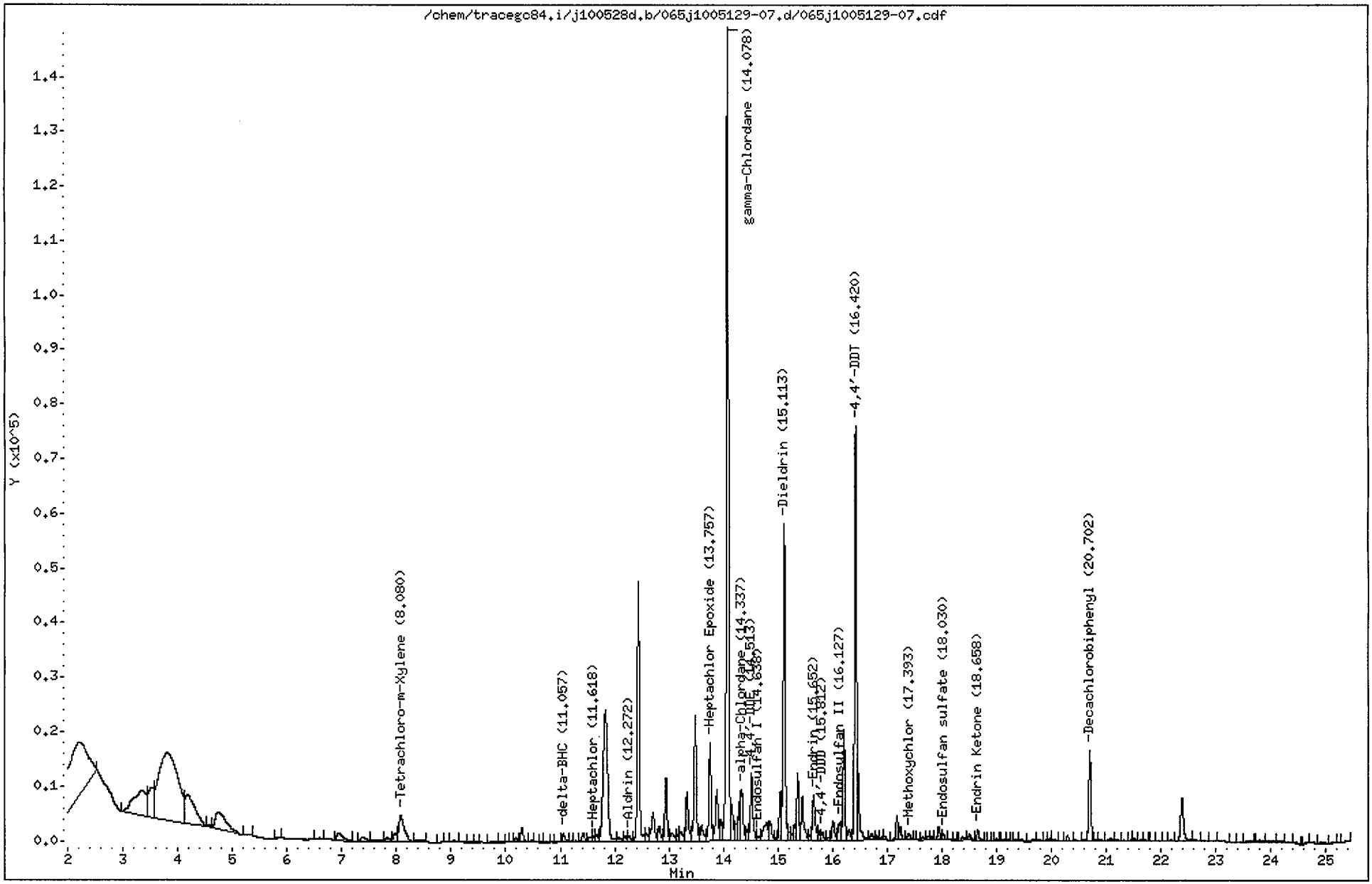
Sample Info: 1005129-07

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-07 Client Smp Id : SS80-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 23:42 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS80-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57		57704								
1.81		60509								
2.22		227788								
3.34		72681								
3.53		44023								
3.80		299439								
4.18		65722								
4.57		2264								
4.75		45317								
5.32		199								
5.84		638								
6.59		958								
6.93		9896								
7.38		4819								
7.70		2439								
7.83		3170								
7.97		5750								
8.08	8.01 8.15	31914	522758	Tetrachloro-m-Xylene	0.061049	12.71861		101.7	70 - 125	
8.41		1735								
8.84		213								
9.05		1350								
9.20		1015								
9.35		752								
9.47		273								
9.76		1378								
9.92		852								
10.11		667								
10.18		2088								
10.30		8943								
10.47		555								
10.67		489								
10.77		1233								
10.93		926								
11.06	11.02 11.16	5979	689518	delta-BHC	0.008671	1.806517	2.125000			J
11.21		692								
11.29		792								
11.42		5963								

6/3/10

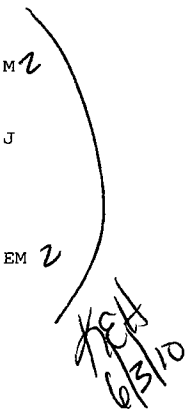
CompuChem

Lab Smp Id : 1005129-07 Client Smp Id : SS80-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 23:42 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS80-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.53		3852								
11.62	11.55 11.69	3165	695465	Heptachlor	0.004551	0.948107	2.125000			J
11.66		4081								
11.83		141337								
12.08		3672								
12.19		3527								
12.27	12.27 12.41	4127	636570	Aldrin	0.006482	1.350336	2.125000			J
12.44		130446								
12.59		4792								
12.71		22287								
12.82		10088								
12.95		33394								
13.06		7174								
13.17		3630								
13.22		7244								
13.33		28720								
13.48		68495								
13.60		11298								
13.76	13.68 13.82	50194	593700	Heptachlor Epoxide	0.084543	17.61306	2.125000			E
13.88		30674								
13.95		11467								
14.08	13.97 14.11	388558	594875	gamma-Chlordane	0.653176	136.0783	2.125000			E
14.15		17773								
14.23		10063								
14.31		19759								
14.34	14.27 14.41	27872	516712	alpha-Chlordane	0.053941	11.23771	2.125000			M
14.45		7013								
14.51	14.45 14.59	38485	523741	4,4'-DDE	0.073481	15.30853	4.125000			
14.64	14.57 14.71	1993	548162	Endosulfan I	0.003636	0.757455	2.125000			J
14.79		19352								
14.86		11500								
14.95		1353								
15.05		25269								
15.11	15.10 15.24	149266	515556	Dieldrin	0.289524	60.31754	4.125000			EM
15.19		4661								
15.27		2521								
15.31		5978								



CompuChem

Lab Smp Id : 1005129-07 Client Smp Id : SS80-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 23:42 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS80-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.36		33475								
15.45		26937								
15.59		2238								
15.65	15.61 15.75	28720	463071	Endrin	0.062019	12.92053	4.125000			
15.75		4552								
15.81	15.75 15.89	4312	393458	4,4'-DDD	0.010957	2.282648	4.125000			J
15.93		1412								
16.01		11668								
16.13	16.09 16.23	10922	450326	Endosulfan II	0.024251	5.052356	4.125000			
16.21		52185								
16.30		5945								
16.42	16.35 16.49	185775	454781	4,4'-DDT	0.408493	85.10273	4.125000			EM
16.46		32645								
16.71		3959								
16.81		1976								
16.90		1315								
16.96		2411								
17.18		10802								
17.24		6741								
17.39	17.37 17.51	4337	194359	Methoxychlor	0.022309	4.647757	21.25000			J
17.57		445								
17.65		1357								
17.75		1834								
17.82		1263								
17.94		6735								
18.03	17.93 18.07	2895	392055	Endosulfan sulfate	0.007384	1.538368	4.125000			J
18.16		509								
18.24		558								
18.38		2971								
18.50		3159								
18.66	18.53 18.67	5379	457258	Endrin Ketone	0.011764	2.450753	4.125000			J
18.86		191								
18.93		128								
19.00		1089								
19.12		729								
19.20		424								
19.34		435								

2 KEH 6/3/10

CompuChem

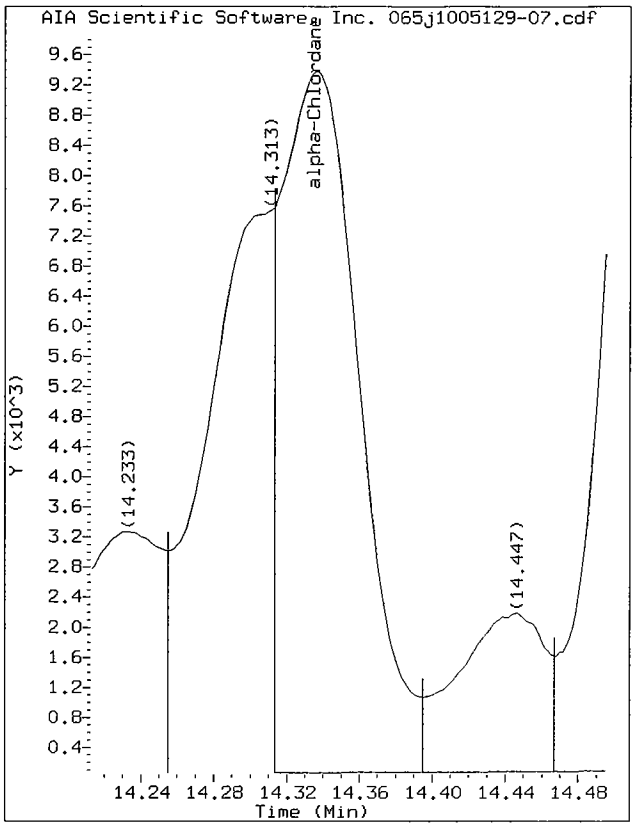
Lab Smp Id : 1005129-07 Client Smp Id : SS80-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 23:42 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : SS80-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

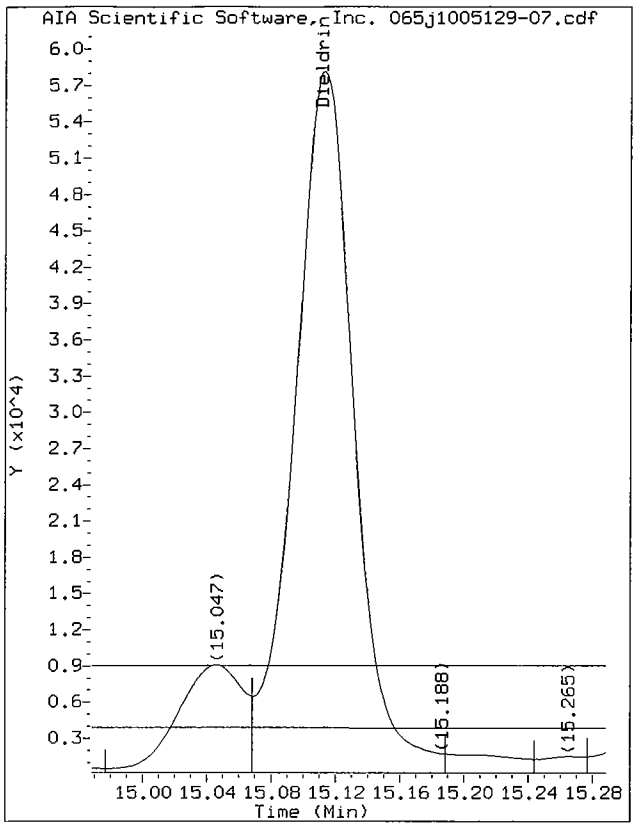
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.45		1241								
19.67		954								
19.77		925								
19.91		362								
19.97		980								
20.02		719								
20.17		227								
20.30		2526								
20.44		551								
20.62		1022								
20.70	20.63 20.77	45262	408350	Decachlorobiphenyl	0.110839	23.09140		92.4	55 - 130	
20.83		412								
20.89		1055								
21.09		2048								
21.20		668								
21.33		457								
21.46		723								
21.51		1256								
21.63		478								
21.69		624								
21.87		174								
22.07		220								
22.18		843								
22.38		31162								
22.62		1361								
22.93		448								
23.32		223								
23.62		1098								
23.80		1558								
23.99		1160								
24.16		707								
24.44		980								
24.64		1469								
24.93		2208								
25.12		873								
25.38		978								

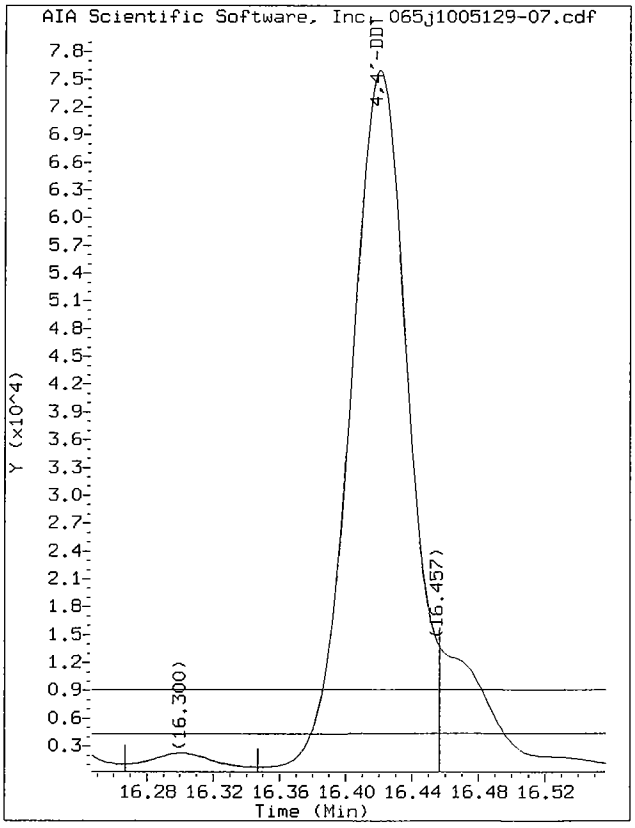
Manually Integrated Peaks



Start: 14.31 Stop: 14.39

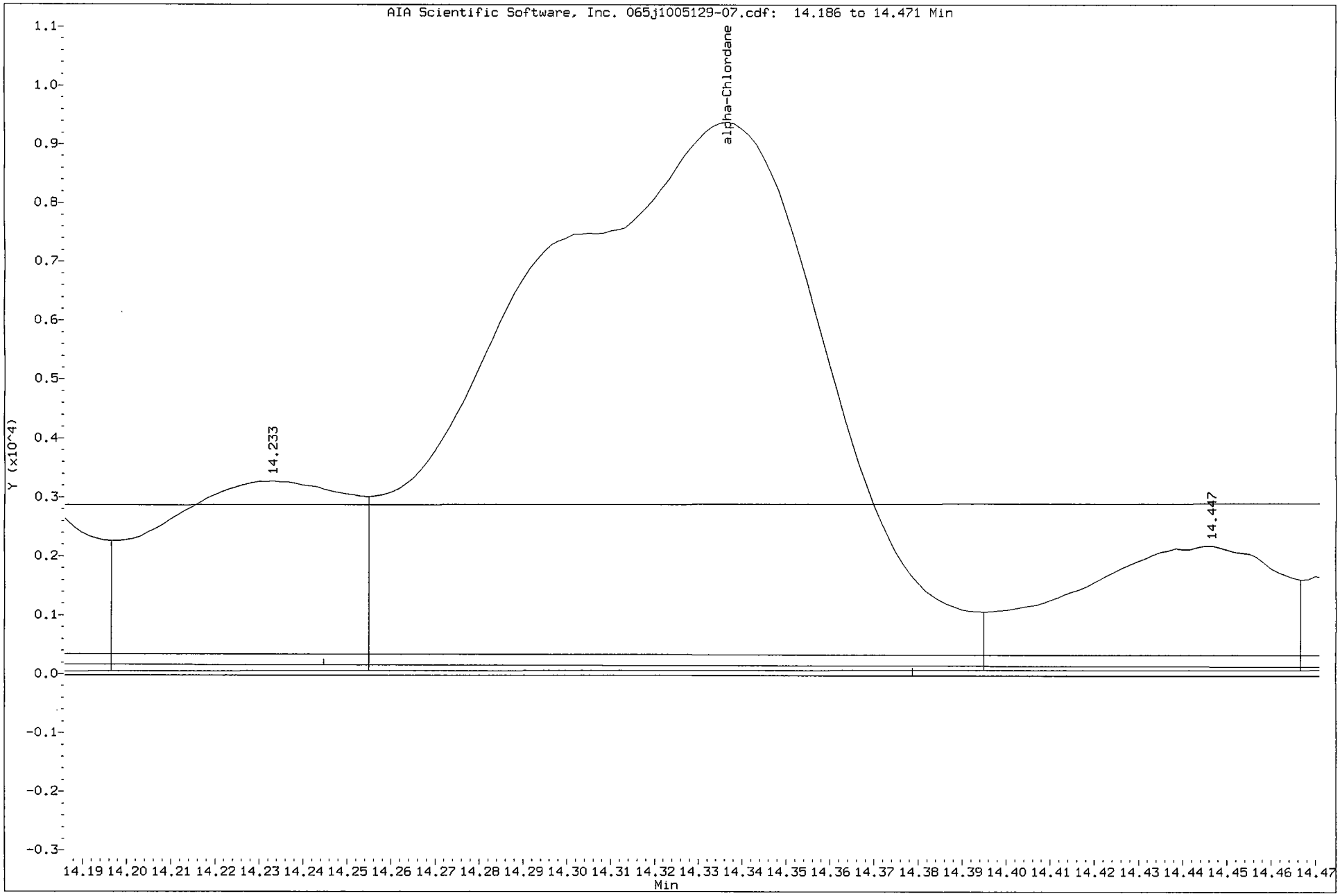


Start: 15.07 Stop: 15.19

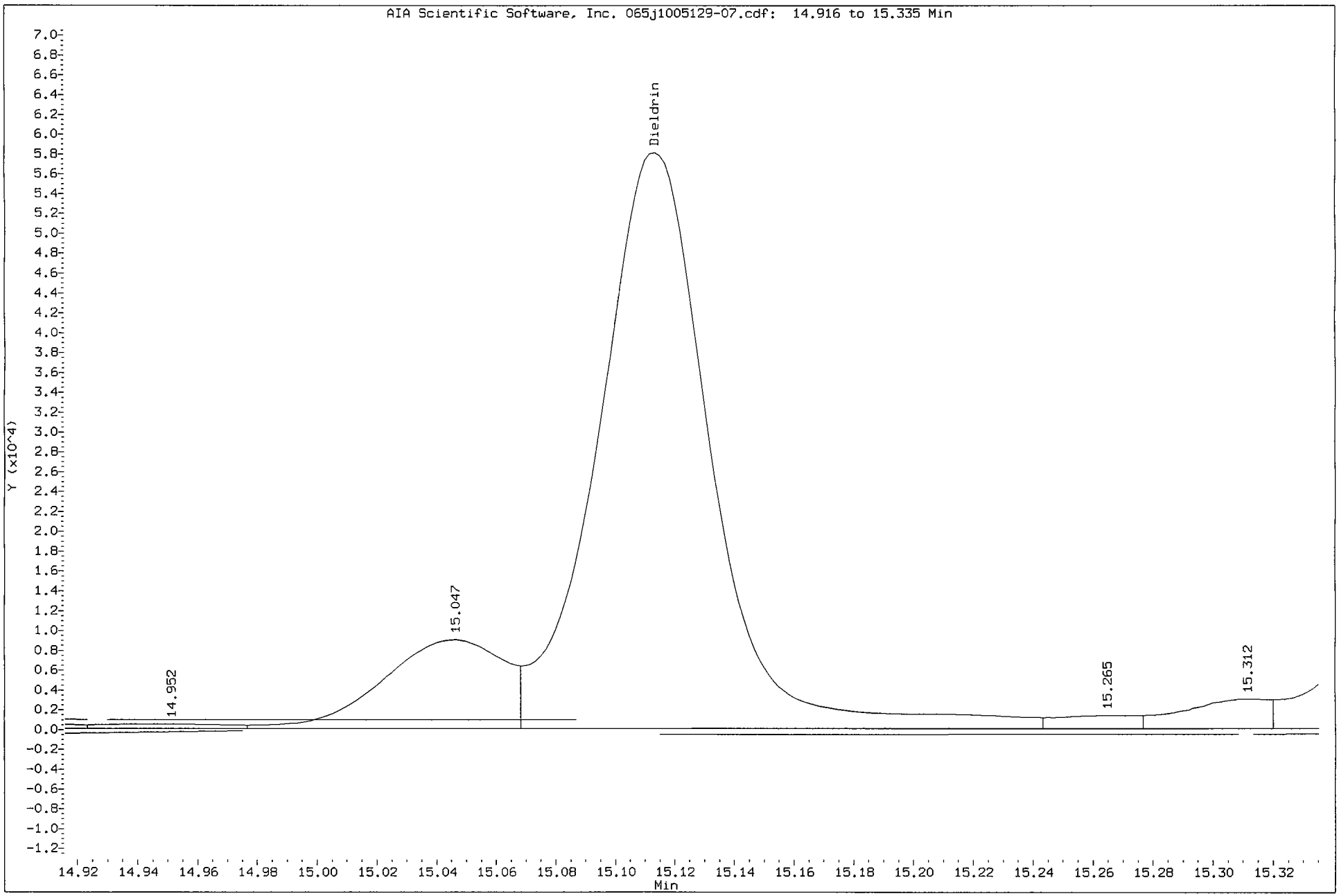


Start: 16.35 Stop: 16.46

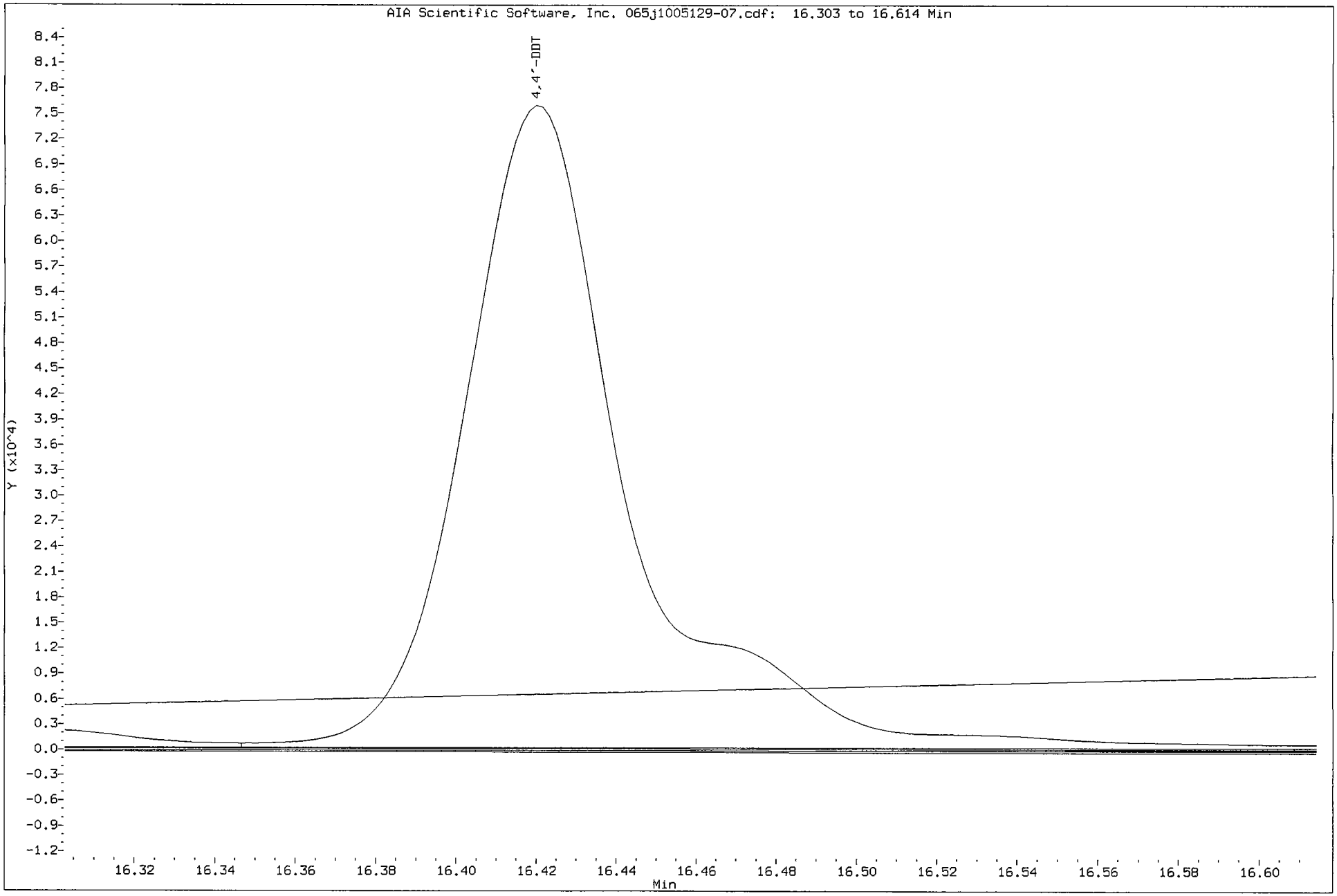
Data File: /chem/tracegc84.i/j100528d.b/065j1005129-07.d/065j1005129-07.cdf
Injection Date: 29-MAY-2010 23:42
Instrument: tracegc84.i
Client Sample ID: SS80-0-1



Data File: /chem/tracegc84.i/j100528d.b/065j1005129-07.d/065j1005129-07.cdf
Injection Date: 29-MAY-2010 23:42
Instrument: tracegc84.i
Client Sample ID: SS80-0-1



Data File: /chem/tracegc84.i/j100528d.b/065j1005129-07.d/065j1005129-07.cdf
Injection Date: 29-MAY-2010 23:42
Instrument: tracegc84.i
Client Sample ID: SS80-0-1



Data File: /chem/tracegc84.i/j100528d_2C.b/065j1005129-07.d

Date : 29-MAY-2010 23:42

Client ID: SS80-0-1

Instrument: tracegc84.i

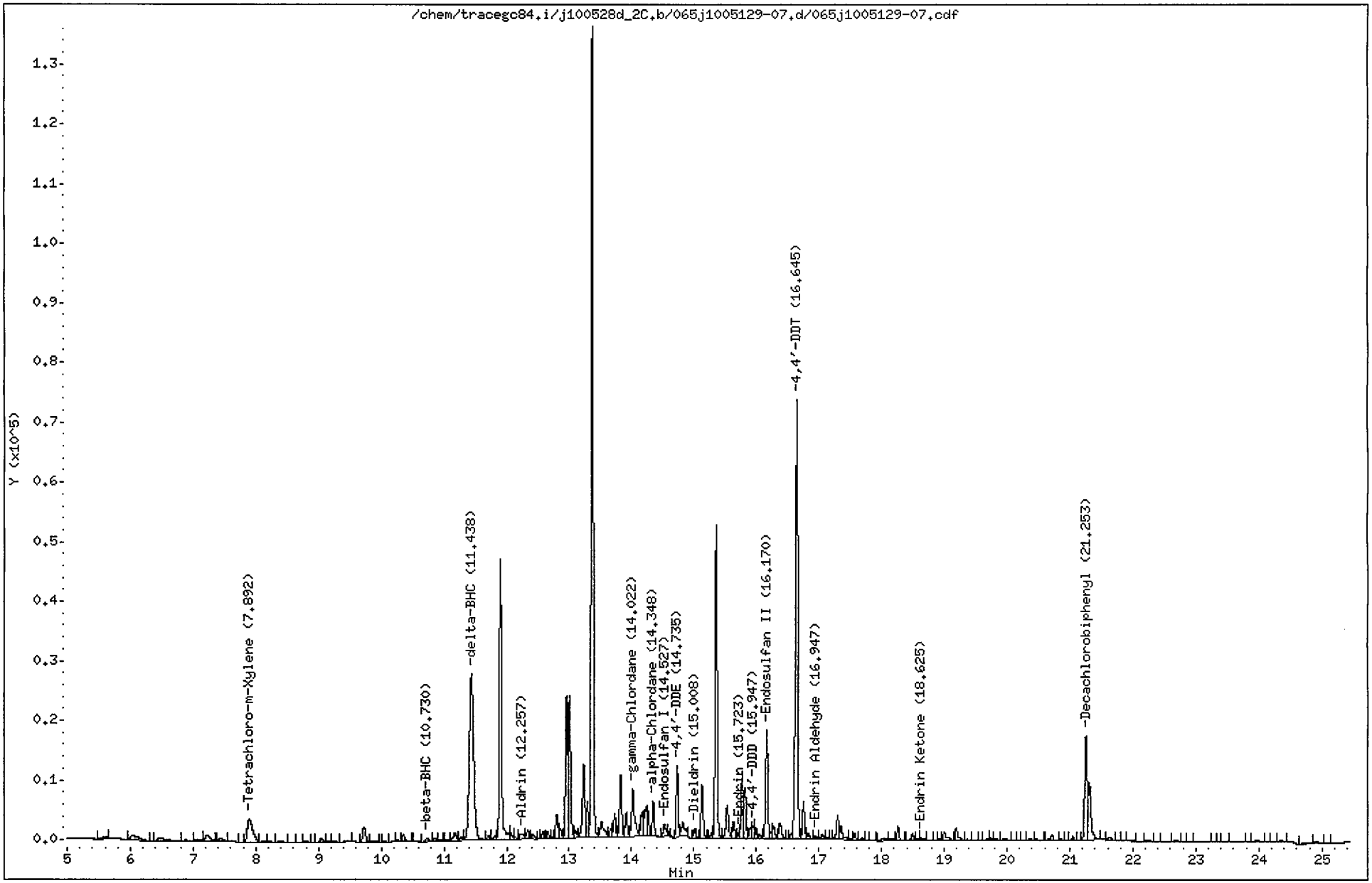
Sample Info: 1005129-07

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-07 Client Smp Id : SS80-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 23:42 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS80-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.03			77261								
2.87			28375								
3.09			70514								
3.55			94455								
3.74			103556								
4.29			3771								
5.59			766								
6.04			7406								
6.46			5581								
6.88			930								
7.11			1645								
7.22			4988								
7.43			2461								
7.76			157								
7.89	7.82	7.96	23072	416798	Tetrachloro-m-Xylene	0.055355	11.53238		92.3	70 - 125	
8.13			485								
8.23			527								
8.40			1364								
8.58			346								
8.70			201								
8.79			386								
9.04			2026								
9.16			280								
9.25			627								
9.43			841								
9.72			8509								
9.87			947								
10.05			490								
10.19			663								
10.27			691								
10.35			3422								
10.57			542								
10.73	10.63	10.77	2242	248610	beta-BHC	0.009018	1.878779	1.063750			
10.86			1709								
10.94			498								
11.05			784								
11.17			4320								

6/3/10

CompuChem

Lab Smp Id : 1005129-07 Client Smp Id : SS80-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 23:42 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS80-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.28		1829								
11.44	11.33 11.47	133752	551235	delta-BHC	0.242639	50.54975	2.125000			E
11.71		1628								
11.81		1973								
11.90		118935								
12.07		2754								
12.13		1011								
12.26	12.21 12.35	4218	542192	Aldrin	0.007780	1.620734	2.125000			J
12.34		3880								
12.41		2416								
12.58		2899								
12.65		2728								
12.73		190								
12.80		10626								
12.86		4042								
12.96		52010								
13.01		58593								
13.11		3420								
13.24		34654								
13.29		13138								
13.37		303719								
13.52		10765								
13.67		3885								
13.73		9211								
13.83		25360								
13.91		9815								
14.02	13.95 14.09	26946	513150	gamma-Chlordane	0.052509	10.93938	2.125000			
14.16		10759								
14.23		14189								
14.27		8642								
14.35	14.28 14.42	13455	446248	alpha-Chlordane	0.030151	6.281548	2.125000			
14.53	14.39 14.53	5645	477982	Endosulfan I	0.011810	2.460428	2.125000			
14.59		1052								
14.64		443								
14.74	14.67 14.81	25211	468602	4,4'-DDE	0.053798	11.20797	4.125000			
14.82		8655								
15.01	14.99 15.13	3362	461929	Dieldrin	0.007276	1.515836	4.125000			JM

6/3/10

CompuChem

Lab Smp Id : 1005129-07 Client Smp Id : SS80-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 23:42 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS80-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.06		364								
15.13		21853								
15.29		2144								
15.36		117903								
15.53		16061								
15.63		7059								
15.72	15.65 15.79	1676	408649	Endrin	0.004101	0.854442	4.125000			J
15.78		25458								
15.82		18758								
15.90		4173								
15.95	15.91 16.05	4107	340626	4,4'-DDD	0.012057	2.511917	4.125000			JM
15.98		4197								
16.05		1587								
16.17	16.11 16.25	43231	404930	Endosulfan II	0.106762	22.24201	4.125000			
16.24		1573								
16.28		5953								
16.38		7737								
16.57		1653								
16.64	16.57 16.71	180183	405929	4,4'-DDT	0.443878	92.47466	4.125000			EM
16.75		14130								
16.83		2572								
16.95	16.83 16.97	1187	316985	Endrin Aldehyde	0.003742	0.779480	4.125000			J
17.06		1909								
17.14		650								
17.30		9801								
17.35		6761								
17.49		381								
17.57		2259								
17.69		916								
17.76		148								
17.83		212								
18.04		2517								
18.15		1416								
18.26		5219								
18.49		2587								
18.59		756								
18.62	18.56 18.70	1240	419519	Endrin Ketone	0.002956	0.615785	4.125000			J

CompuChem

Lab Smp Id : 1005129-07 Client Smp Id : SS80-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 23:42 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS80-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.86		516								
18.91		539								
19.00		6020								
19.19		7119								
19.36		636								
19.50		165								
19.57		192								
19.69		705								
19.74		1188								
19.82		1074								
19.97		1701								
20.12		176								
20.26		272								
20.37		854								
20.48		764								
20.72		3130								
20.86		516								
20.93		123								
21.05		1709								
21.13		98								
21.25	21.18 21.32	46227	406698	Decachlorobiphenyl	0.113662	23.67956		94.7	55 - 130	
21.31		28274								
21.64		1539								
21.76		258								
21.88		194								
21.92		671								
22.24		1035								
22.50		336								
22.69		746								
22.88		208								
23.31		92								
23.46		248								
23.68		575								
23.97		1341								
24.26		375								
24.35		889								
24.77		2087								

CompuChem

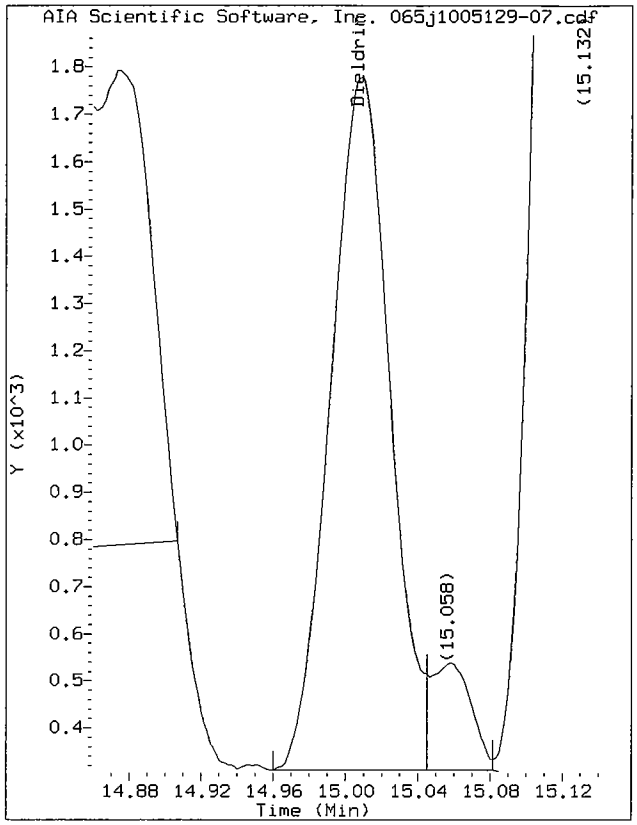
Lab Smp Id : 1005129-07 Client Smp Id : SS80-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 23:42 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : SS80-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

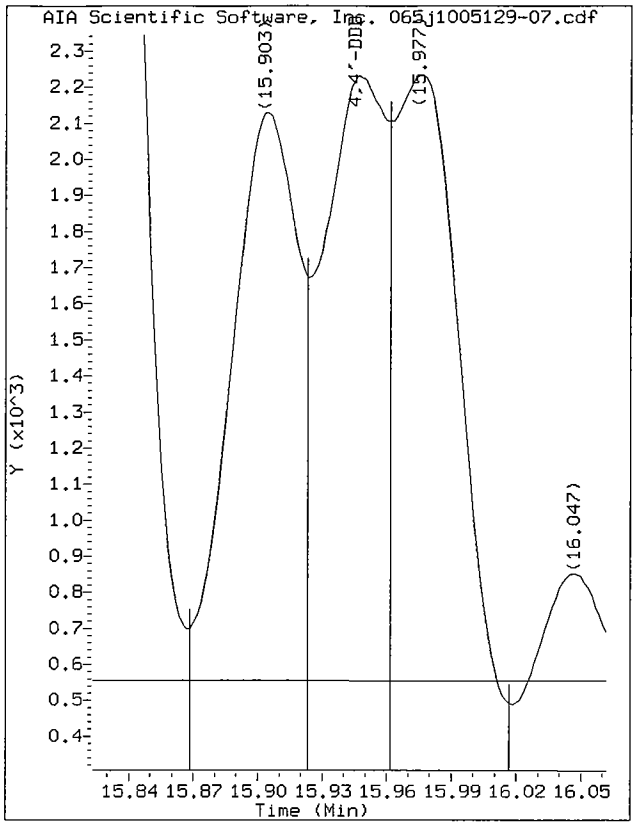
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.90		1504								
25.11		118								

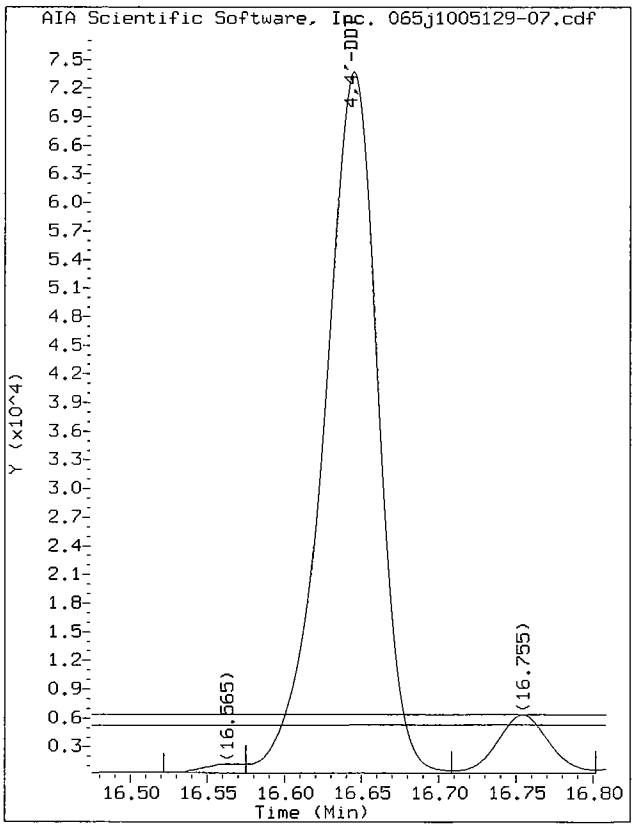
Manually Integrated Peaks



Start: 14.96 Stop: 15.04

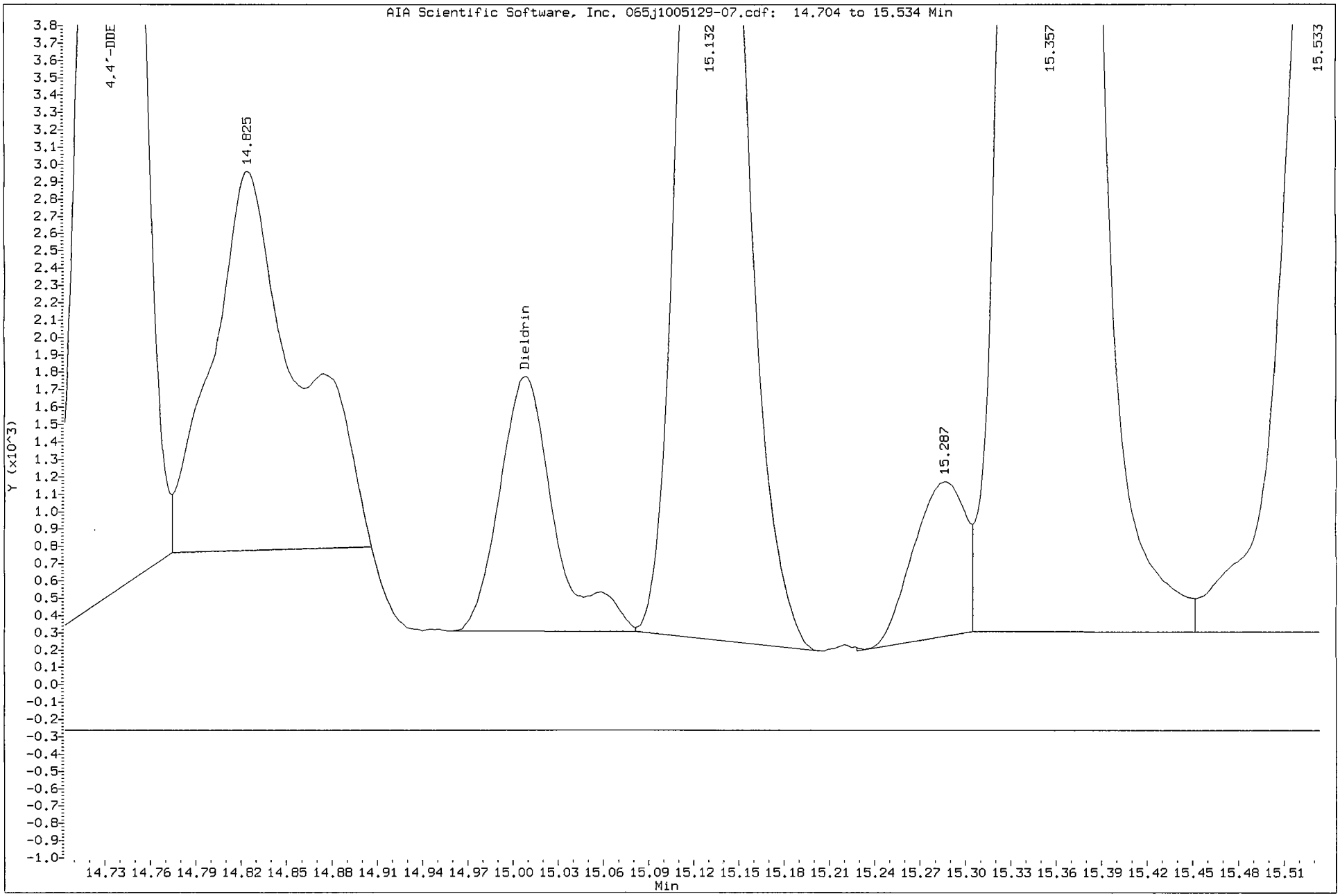


Start: 15.92 Stop: 15.96

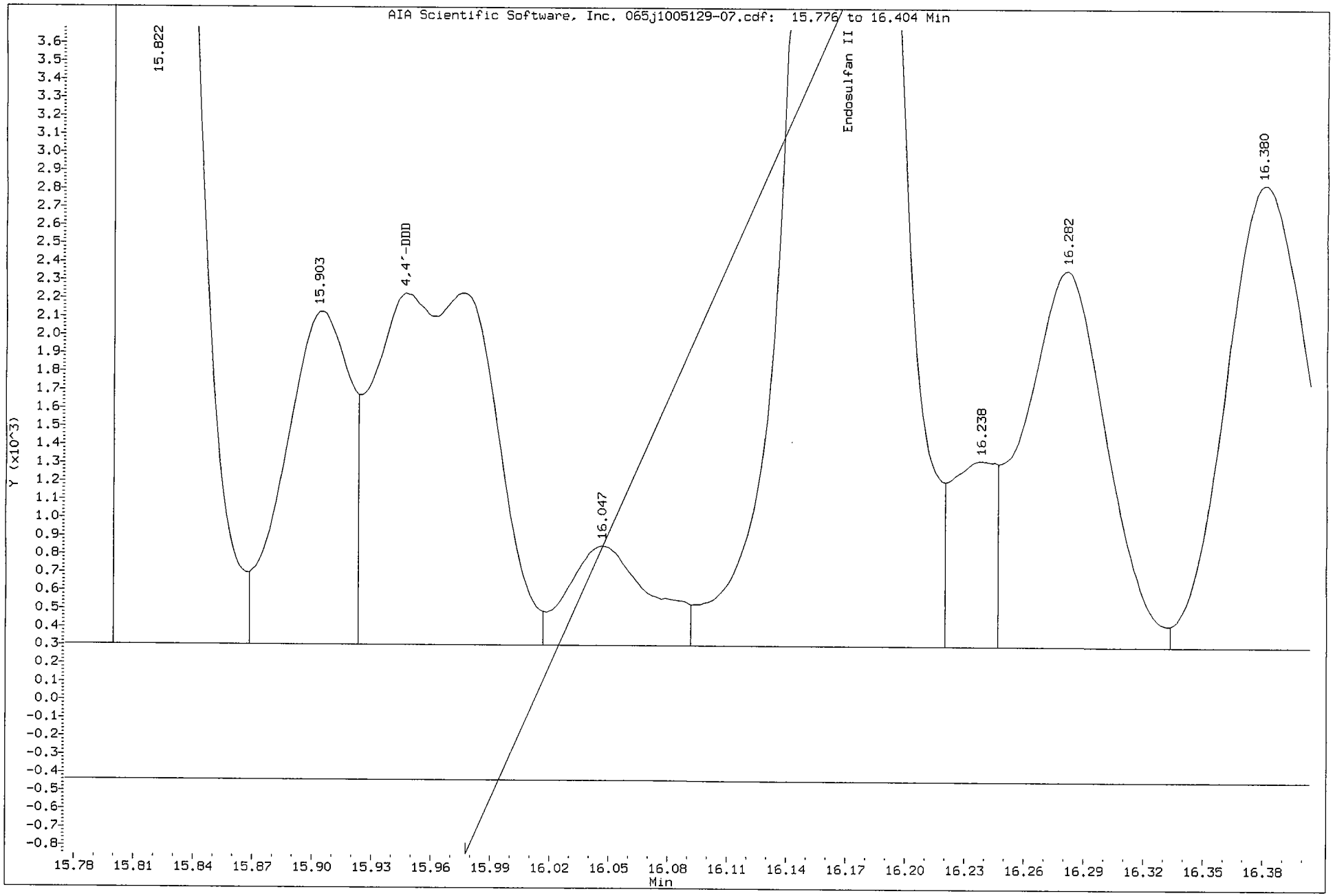


Start: 16.57 Stop: 16.71

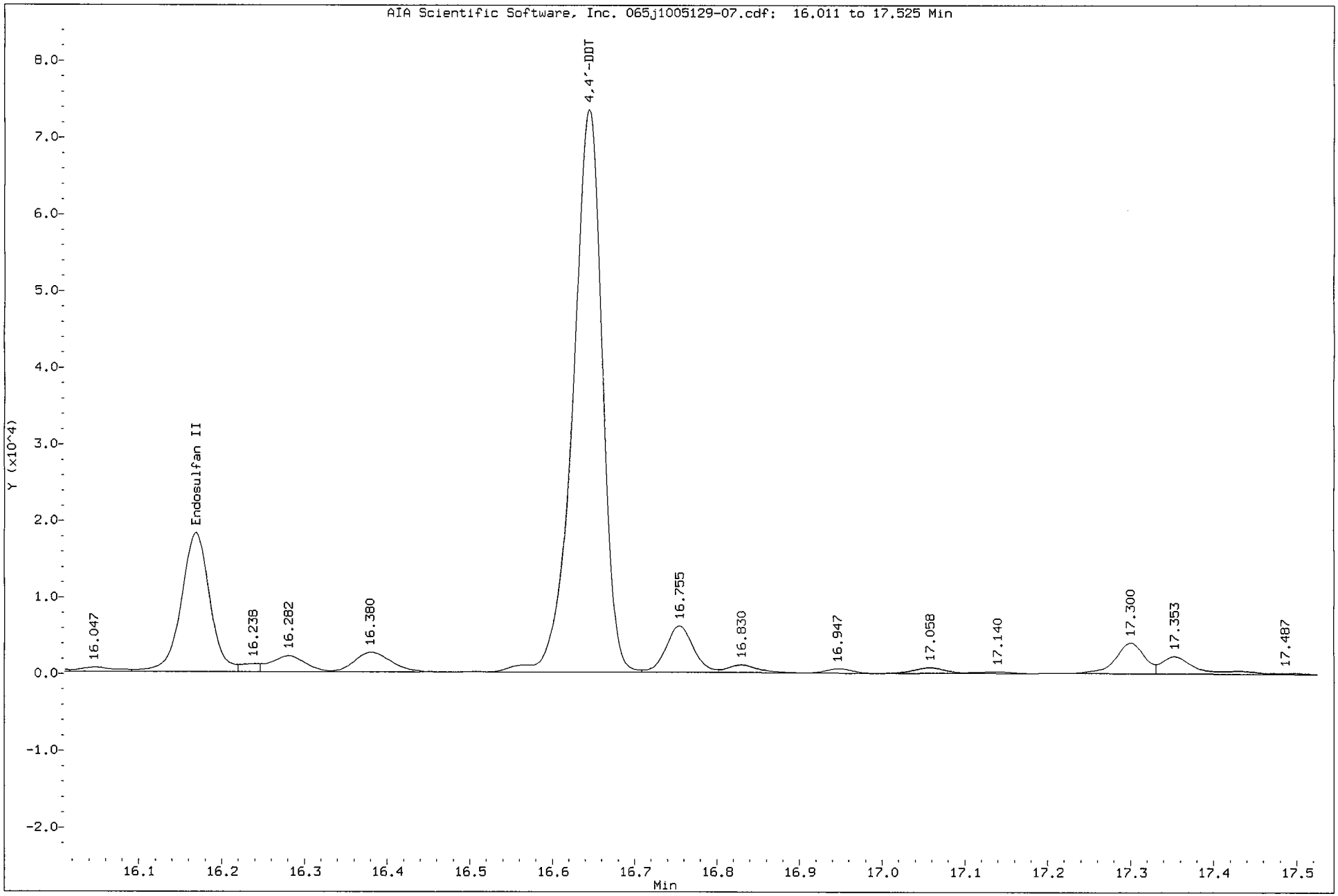
Data File: /chem/tracegc84.i/j100528d_2C.b/065j1005129-07.d/065j1005129-07.cdf
Injection Date: 29-MAY-2010 23:42
Instrument: tracegc84.i
Client Sample ID: SS80-0-1



Data File: /chem/tracegc84.i/j100528d_2C.b/065j1005129-07.d/065j1005129-07.cdf
Injection Date: 29-MAY-2010 23:42
Instrument: tracegc84.i
Client Sample ID: SS80-0-1



Data File: /chem/tracegc84.i/j100528d_2C.b/065j1005129-07.d/065j1005129-07.cdf
Injection Date: 29-MAY-2010 23:42
Instrument: tracegc84.i
Client Sample ID: SS80-0-1



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS80-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-07RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	21	U
319-85-7	beta-BHC	11	U
319-84-6	alpha-BHC	21	U
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	21	U
72-54-8	4,4'-DDD	41	U
72-55-9	4,4'-DDE	10	DJ
50-29-3	4,4'-DDT	81	D
60-57-1	Dieldrin	41	U
959-98-8	Endosulfan I	21	U
33213-65-9	Endosulfan II	25	DJ
1031-07-8	Endosulfan sulfate	41	U
72-20-8	Endrin	11	DJ
7421-93-4	Endrin Aldehyde	41	U
76-44-8	Heptachlor	21	U
1024-57-3	Heptachlor Epoxide	21	U
72-43-5	Methoxychlor	210	U
8001-35-2	Toxaphene	1000	U
53494-70-5	Endrin Ketone	41	U
5103-74-2	gamma-Chlordane	8.1	DJBP
5103-71-9	alpha-Chlordane	6.2	DJP

Data File: /chem/tracegc84.i/j100528o.b/166j1005129-07.d

Date : 03-JUN-2010 17:57

Client ID: SS80-0-1DL

Instrument: tracegc84.i

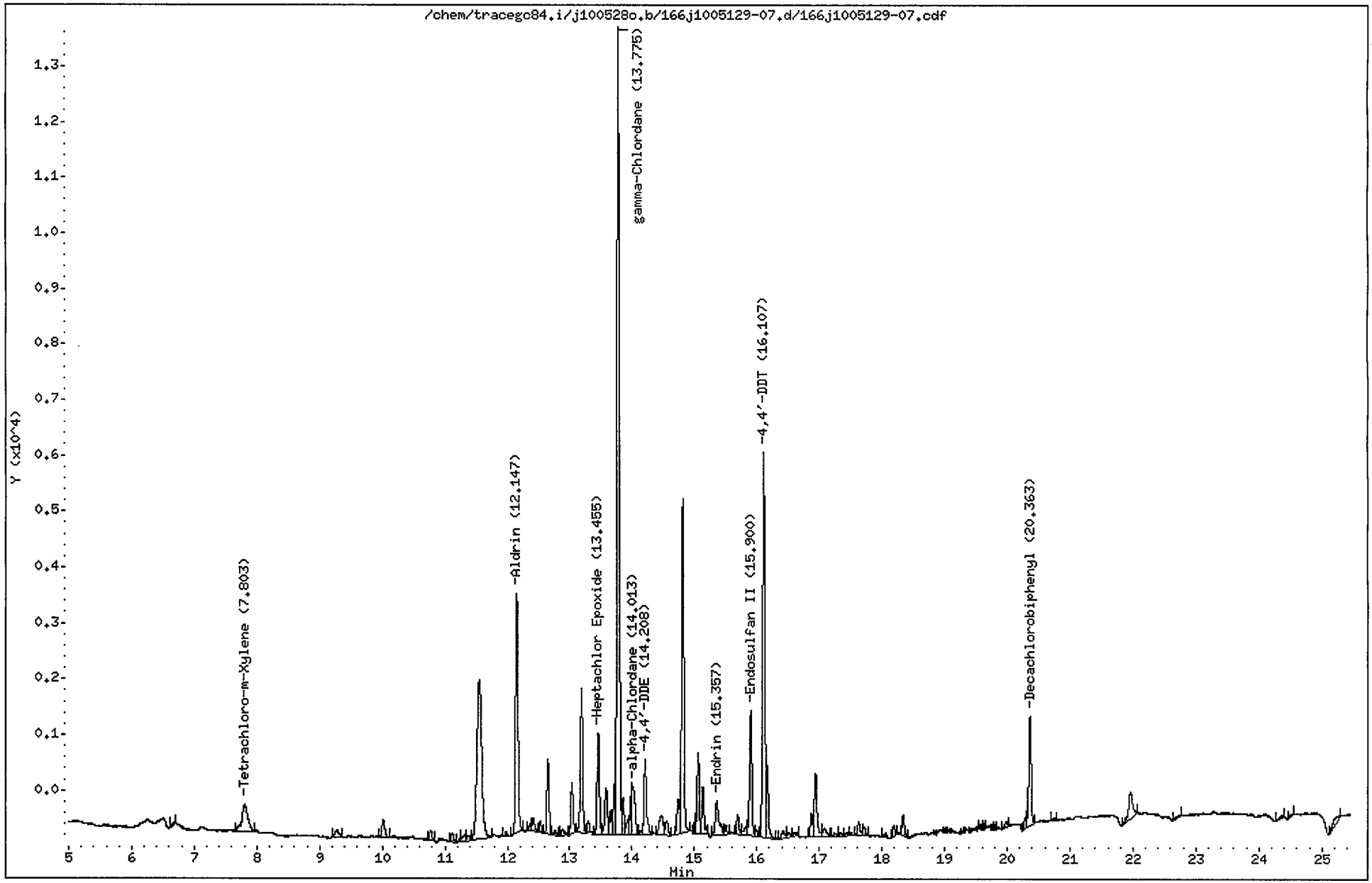
Sample Info: 1005129-07RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-07RE1 Client Smp Id : SS80-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS80-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.45		39656								
2.03		2241								
3.05		711								
4.53		293								
6.68		122								
7.80	7.77 7.91	3284	522758	Tetrachloro-m-Xylene	0.006280	13.08366		104.7	70 - 125	
9.27		536								
10.01		961								
10.78		461								
11.11		469								
11.24		164								
11.31		434								
11.37		293								
11.55		15559								
11.98		204								
12.15	12.01 12.15	11567	636570	Aldrin	0.018169	37.85261	21.25000			
12.36		290								
12.41		651								
12.53		513								
12.65		3369								
12.77		249								
12.88		370								
13.03		2307								
13.19		6551								
13.29		436								
13.46	13.42 13.56	4738	593700	Heptachlor Epoxide	0.007980	16.62596	21.25000			J
13.58		2526								
13.65		1046								
13.73		1701								
13.78	13.70 13.84	37084	594875	gamma-Chlordane	0.062339	129.8732	21.25000			M2
13.85		1568								
13.93		635								
13.99		1683								
14.01	14.00 14.14	2772	516712	alpha-Chlordane	0.005365	11.17643	21.25000			JM2
14.14		136								
14.21	14.19 14.33	3590	523741	4,4'-DDE	0.006855	14.28027	41.25000			J
14.47		1485								

6/4/10

CompuChem

Lab Smp Id : 1005129-07RE1 Client Smp Id : SS80-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:57 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS80-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.56		792								
14.74		1731								
14.81		15081								
15.01		371								
15.06		3504								
15.13		2088								
15.36	15.33 15.47	2557	463071	Endrin	0.005520	11.49931	41.25000			J
15.50		391								
15.69		1012								
15.82		616								
15.90	15.81 15.95	5694	450326	Endosulfan II	0.012644	26.34201	41.25000			J
16.00		308								
16.11	16.08 16.22	17604	454781	4,4'-DDT	0.038707	80.63859	41.25000			
16.16		3047								
16.42		445								
16.51		260								
16.60		293								
16.87		948								
16.93		3416								
17.09		619								
17.24		158								
17.34		171								
17.44		205								
17.51		125								
17.63		741								
17.71		362								
18.06		206								
18.19		466								
18.34		906								
19.57		137								
19.63		120								
19.79		124								
19.99		283								
20.29		583								
20.36	20.33 20.47	5231	408350	Decachlorobiphenyl	0.012810	26.68769		106.8	55 - 130	
20.75		131								
21.96		2278								

CompuChem

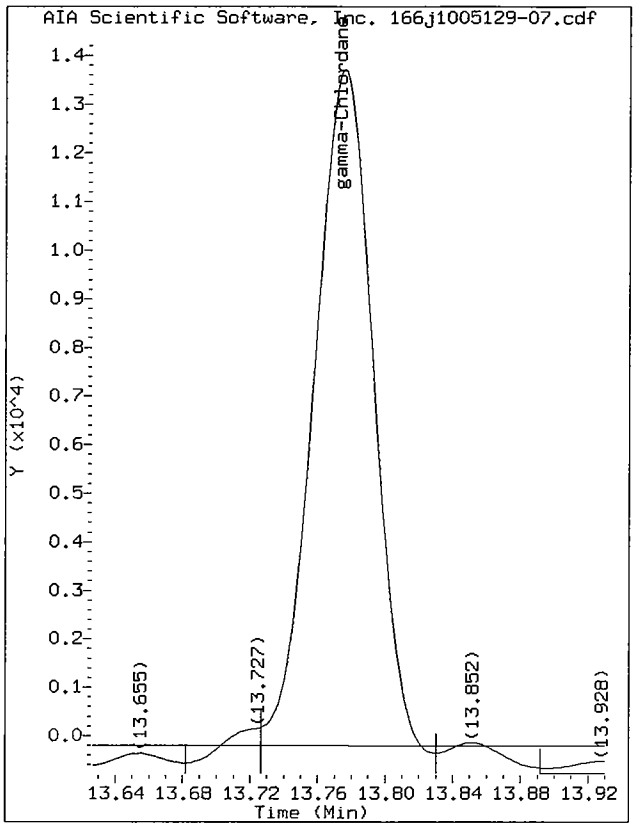
Lab Smp Id : 1005129-07RE1 Client Smp Id : SS80-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:57 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS80-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

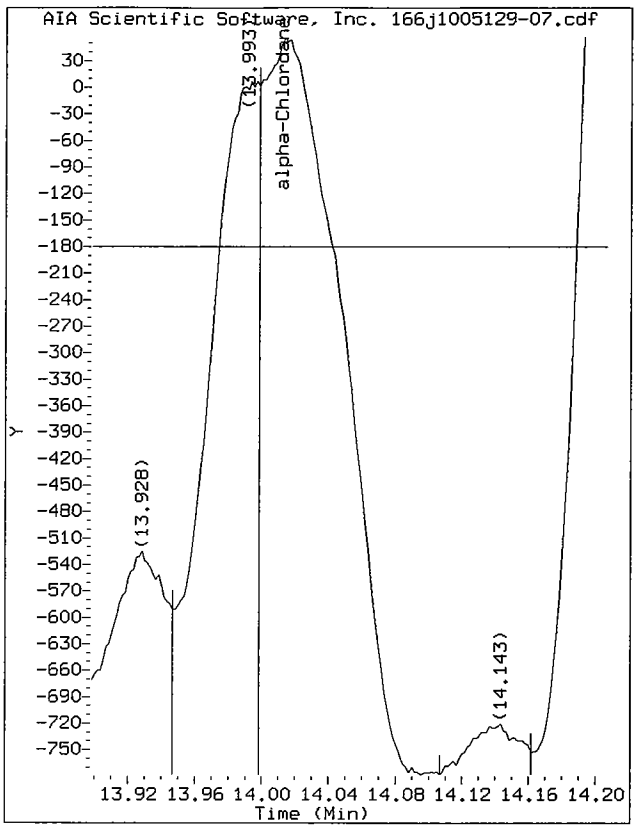
DF	Dilution Factor: 10.0	Uf	GPC Unit Factor: 1
Vt	Final Volume: 5000(ul)	Vi	Injection Volume: 1(ul)
Ws	Sample Weight: 30.0(g)	M	Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.73		155								
24.37		153								
24.55		143								
25.27		777								

Manually Integrated Peaks

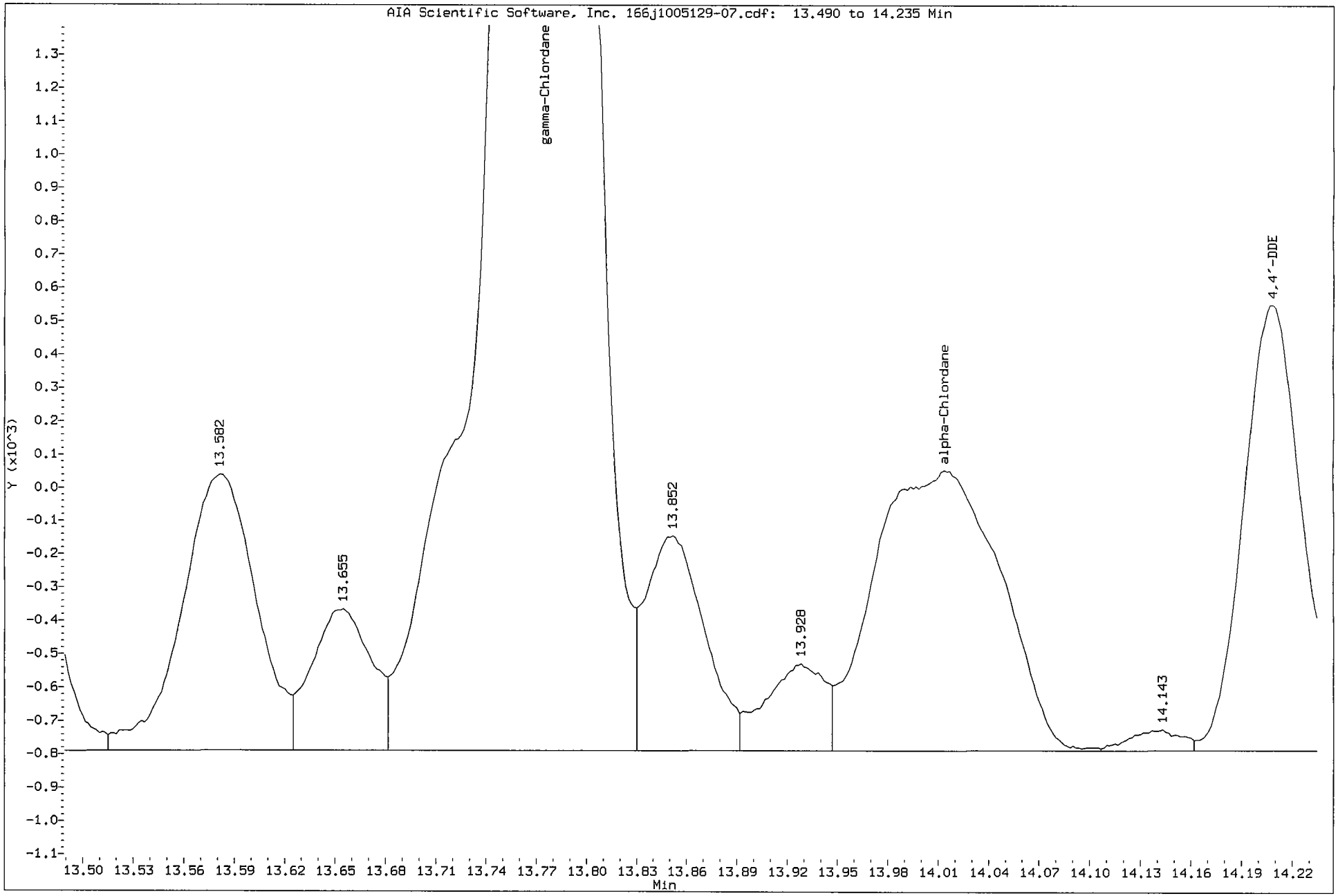


Start: 13.73 Stop: 13.83



Start: 14.00 Stop: 14.11

Data File: /chem/tracegc84.i/j100528o.b/166j1005129-07.d/166j1005129-07.cdf
Injection Date: 03-JUN-2010 17:57
Instrument: tracegc84.i
Client Sample ID: SS80-0-1DL



Data File: /chem/tracegc84.i/j100528o_2C.b/166jcdf1005129-07.d

Date : 03-JUN-2010 17:57

Client ID: SS80-0-1DL

Instrument: tracegc84.i

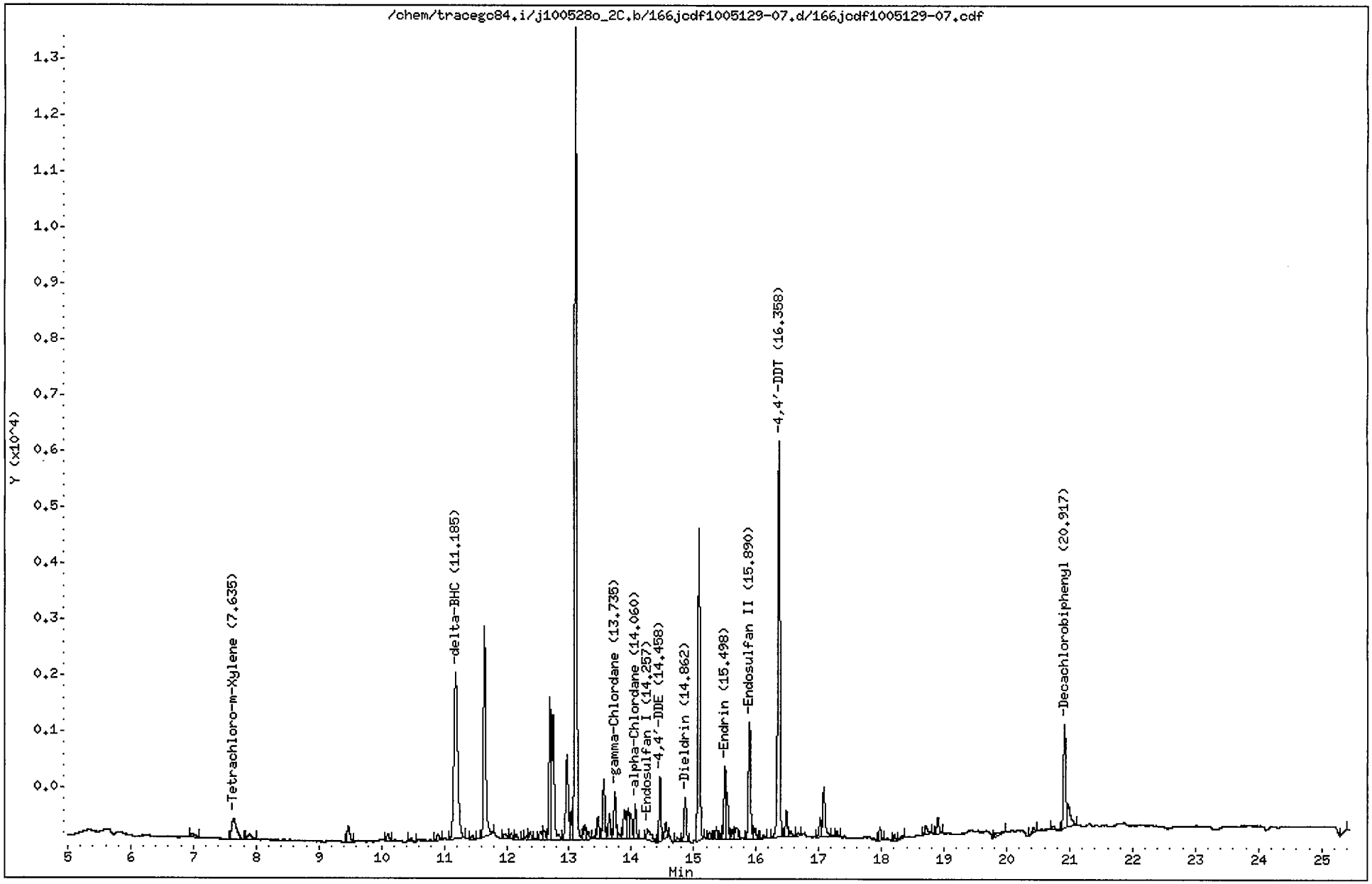
Sample Info: 1005129-07RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-07RE1 Client Smp Id : SS80-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS80-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.47		23671								
1.57		5349								
1.85		123795								
2.60		805								
2.72		7236								
3.29		185								
6.98		237								
7.64	7.61 7.75	2112	416798	Tetrachloro-m-Xylene	0.005067	10.55669		84.5	70 - 125	
7.90		477								
9.47		878								
10.10		332								
10.47		202								
10.90		352								
11.18	11.11 11.25	12638	551235	delta-BHC	0.022927	47.76396	21.25000			
11.45		149								
11.64		9647								
11.96		312								
12.07		301								
12.15		256								
12.32		187								
12.37		332								
12.54		421								
12.60		457								
12.69		5403								
12.74		5972								
12.96		4146								
13.03		1092								
13.10		32292								
13.24		676								
13.31		318								
13.39		129								
13.46		938								
13.55		2540								
13.64		1068								
13.74	13.71 13.85	1999	513150	gamma-Chlordane	0.003894	8.111663	21.25000			JM 2
13.79		314								
13.89		1428								

CompuChem

Lab Smp Id : 1005129-07RE1 Client Smp Id : SS80-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:57 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS80-0-1DL

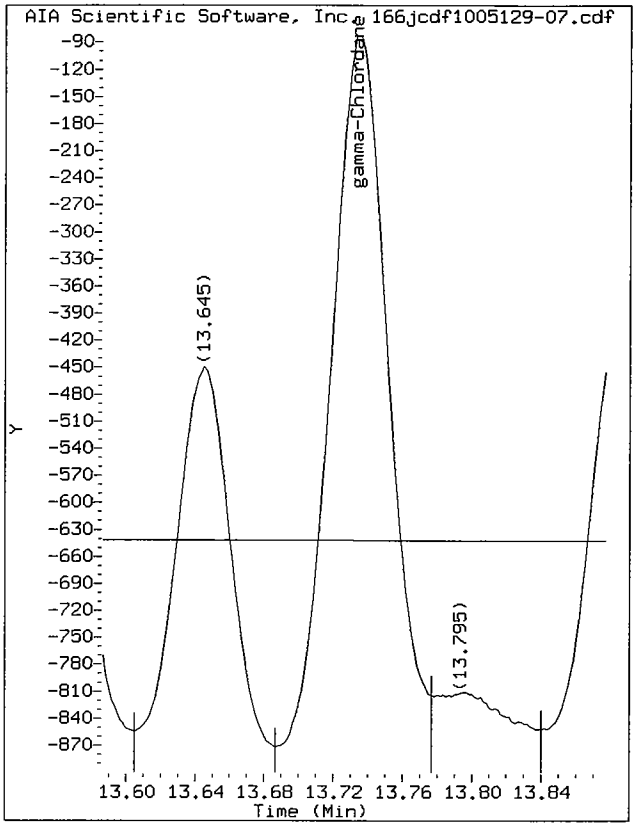
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

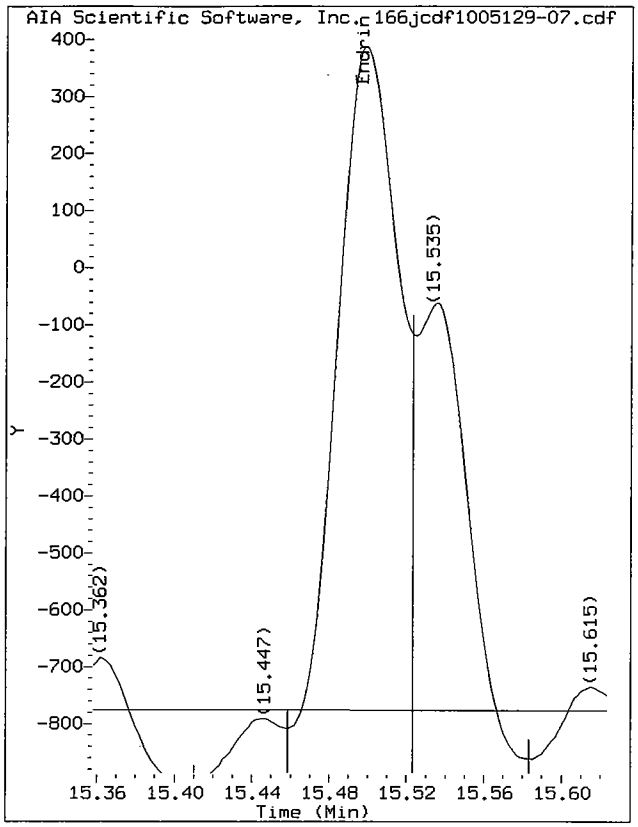
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.94		1452								
13.99		1007								
14.06	14.04 14.18	1340	446248	alpha-Chlordane	0.003003	6.255871	21.25000			J
14.26	14.15 14.29	1023	477982	Endosulfan I	0.002138	4.454487	21.25000			J
14.46	14.43 14.57	2309	468602	4,4'-DDE	0.004925	10.26101	41.25000			J
14.55		720								
14.74		272								
14.86	14.75 14.89	1853	461929	Dieldrin	0.004011	8.357169	41.25000			J
15.08		12571								
15.25		299								
15.36		465								
15.45		187								
15.50	15.40 15.54	2994	408649	Endrin	0.007324	15.25862	41.25000			JM 2
15.54		1610								
15.62		359								
15.69		674								
15.89	15.86 16.00	4874	404930	Endosulfan II	0.012037	25.07635	41.25000			J
15.98		517								
16.12		182								
16.36	16.33 16.47	16724	405929	4,4'-DDT	0.041197	85.82684	41.25000			
16.48		1039								
16.55		239								
16.68		149								
17.02		753								
17.08		2334								
17.29		195								
17.98		491								
18.21		225								
18.34		157								
18.71		535								
18.90		736								
19.96		468								
20.43		263								
20.74		188								
20.92	20.90 21.04	4608	406698	Decachlorobiphenyl	0.011328	23.59965		94.4	55 - 130	
20.98		1364								
25.39		91								

6/4/10

Manually Integrated Peaks

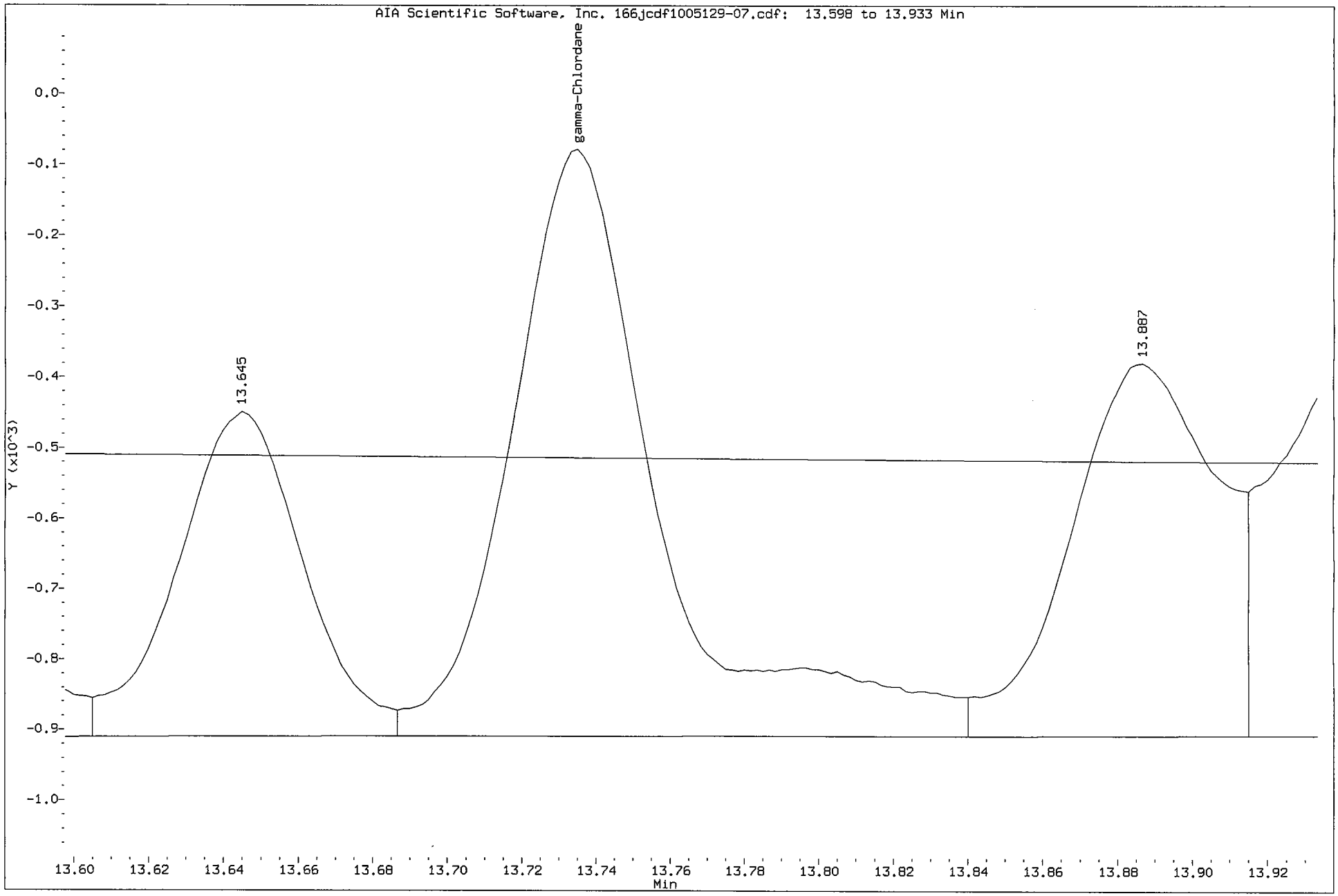


Start: 13.69 Stop: 13.78

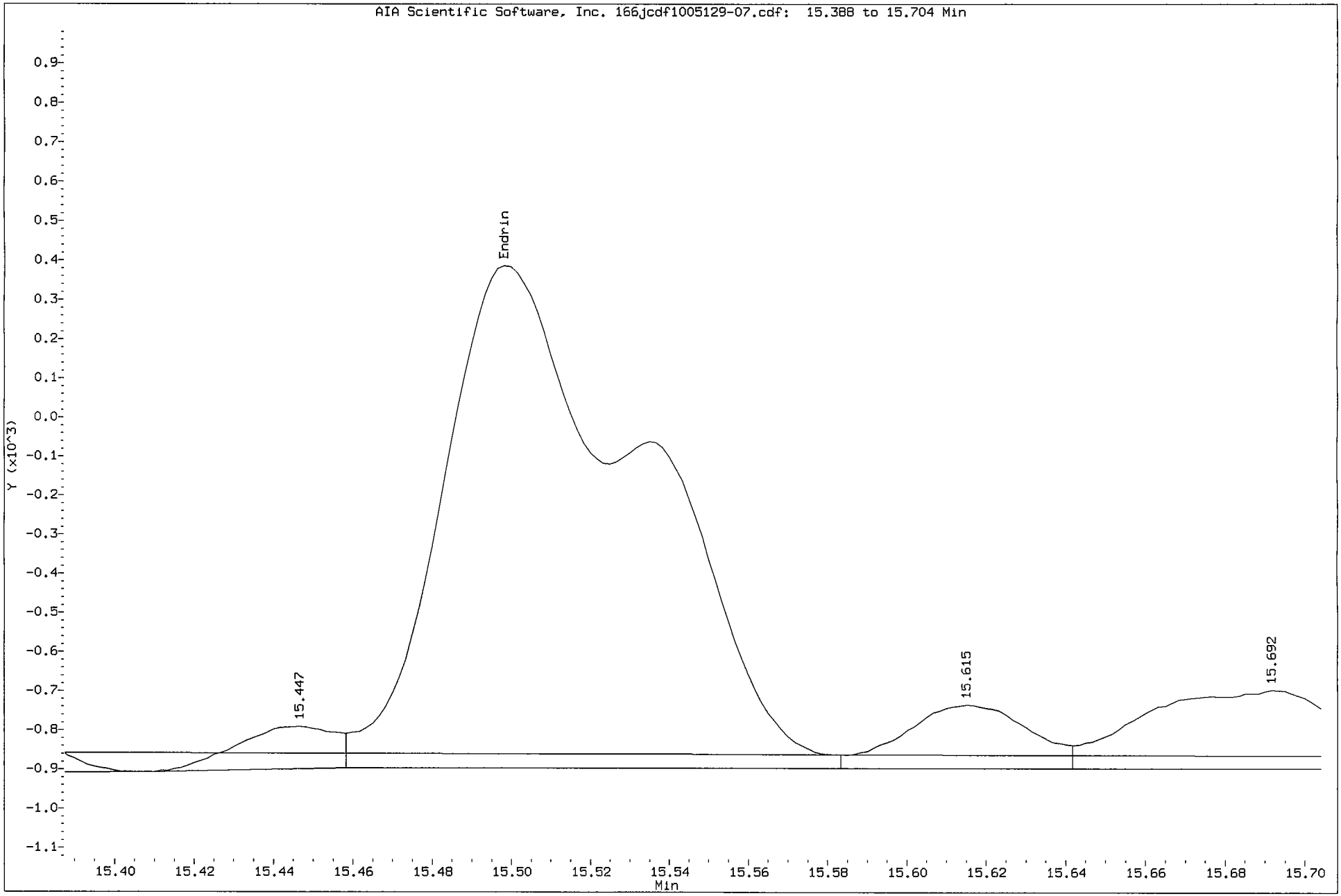


Start: 15.46 Stop: 15.52

Data File: /chem/tracegc84.i/j100528o_2C.b/166jcdf1005129-07.d/166jcdf1005129-07.cdf
Injection Date: 03-JUN-2010 17:57
Instrument: tracegc84.i
Client Sample ID: SS80-0-1DL



Data File: /chem/tracegc84.i/j100528o_2C.b/166jcdf1005129-07.d/166jcdf1005129-07.cdf
Injection Date: 03-JUN-2010 17:57
Instrument: tracegc84.i
Client Sample ID: SS80-0-1DL



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS85-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.95	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	0.22	JP
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

Data File: /chem/tracegc84.i/j100528e.b/079j1005129-17.d

Date : 30-MAY-2010 06:26

Client ID: SS85-0-1

Instrument: tracegc84.i

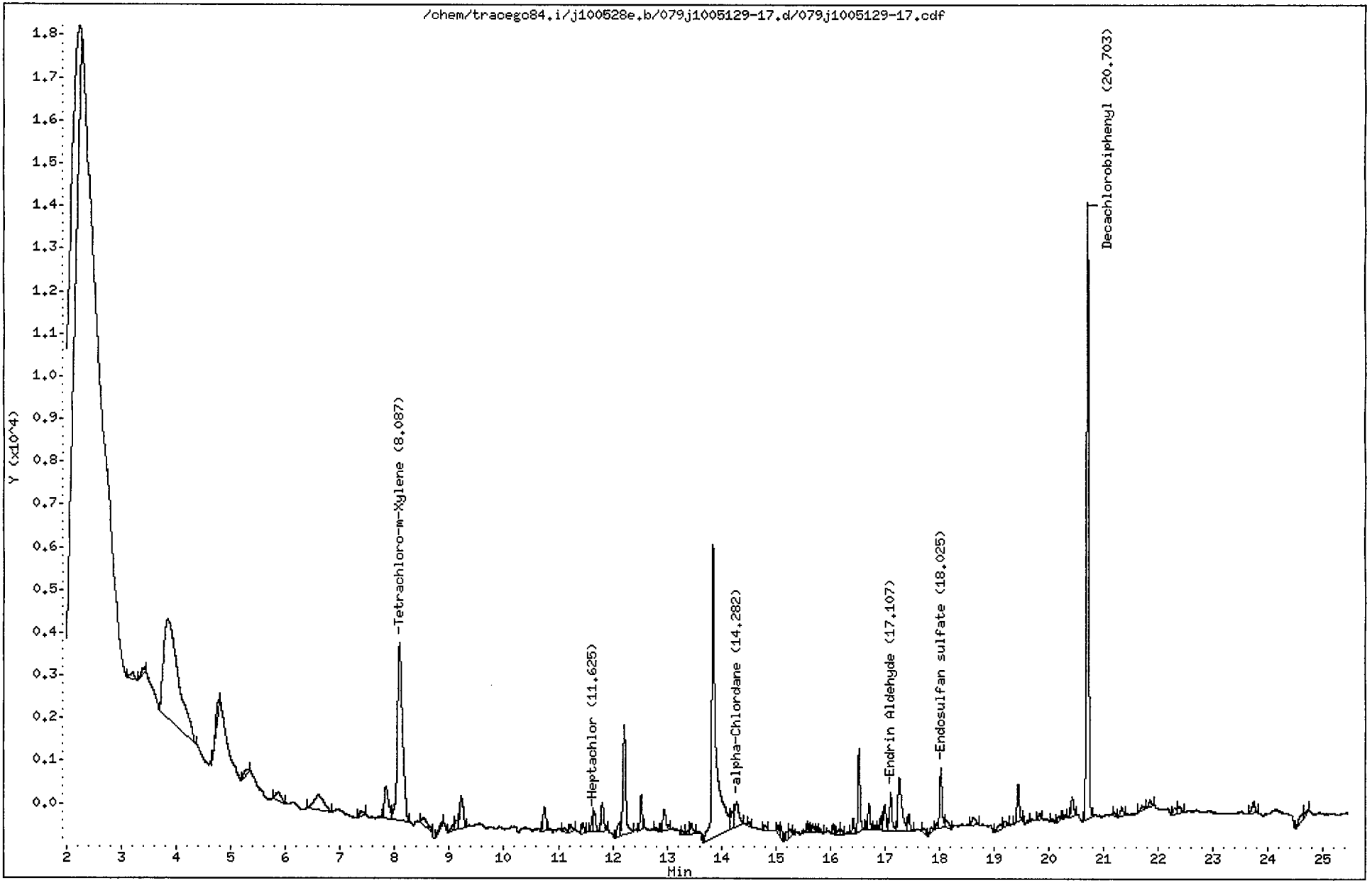
Sample Info: 1005129-17

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-17 Client Smp Id : SS85-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:26 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS85-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58		18594								
2.24		45574								
3.19		872								
3.40		712								
3.84		43947								
4.78		1687								
5.28		668								
5.86		1442								
6.60		4637								
7.39		571								
7.84		4037								
8.09	8.01 8.15	27311	522758	Tetrachloro-m-Xylene	0.052244	9.674835		87.1	70 - 125	
8.52		1461								
8.88		444								
9.09		596								
9.14		840								
9.22		3340								
10.75		1908								
11.11		337								
11.22		590								
11.45		677								
11.62	11.55 11.69	824	695465	Heptachlor	0.001183	0.219145	1.888889			J
11.66		1405								
11.81		2218								
12.11		1280								
12.21		9466								
12.53		2064								
12.80		240								
12.95		1962								
13.29		245								
13.39		221								
13.45		913								
13.84		37428								
14.20		1393								
14.28	14.27 14.41	2960	516712	alpha-Chlordane	0.005727	1.060479	1.888889			J
14.51		233								
14.80		398								

KEH 6/3/10

CompuChem

Lab Smp Id : 1005129-17 Client Smp Id : SS85-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:26 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS85-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.04		571								
15.11		610								
15.20		533								
15.27		657								
15.58		557								
15.68		622								
15.75		145								
15.81		285								
16.06		465								
16.16		407								
16.20		337								
16.42		869								
16.52		5087								
16.71		1685								
16.82		219								
16.89		230								
16.94		793								
17.00		1744								
17.11	17.00 17.14	2849	348470	Endrin Aldehyde	0.008173	1.513494	3.666667			J
17.26		6204								
17.44		1171								
17.70		406								
17.85		521								
17.95		246								
18.02	17.93 18.07	4086	392055	Endosulfan sulfate	0.010419	1.929529	3.666667			J
18.12		864								
18.62		871								
19.13		612								
19.20		494								
19.44		2530								
19.62		159								
19.83		423								
20.08		224								
20.18		249								
20.29		162								
20.42		1521								
20.70	20.63 20.77	39365	408350	Decachlorobiphenyl	0.096398	17.85143		80.3	55 - 130	

CompuChem

Lab Smp Id : 1005129-17 Client Smp Id : SS85-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:26 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS85-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.20		236								
21.33		743								
21.70		477								
21.86		481								
22.30		618								
22.38		863								
23.73		1013								
24.63		883								
24.73		488								

Data File: /chem/tracegc84.i/j100528e_2C.b/079j1005129-17.d

Date : 30-MAY-2010 06:26

Client ID: SS85-0-1

Instrument: tracegc84.i

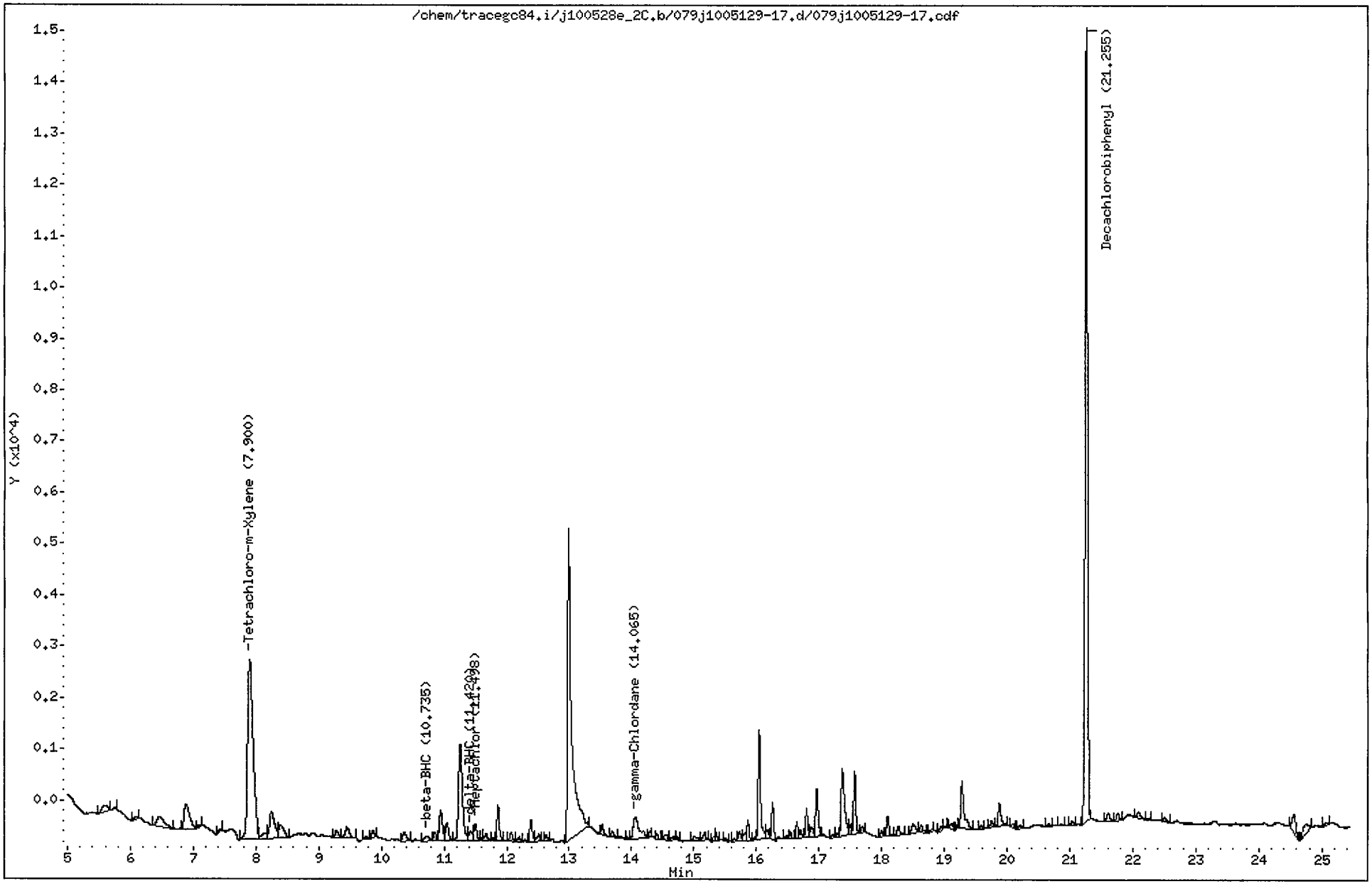
Sample Info: 1005129-17

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-17 Client Smp Id : SS85-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:26 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS85-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.03			566513								
2.82			926								
3.17			4325								
4.34			12529								
4.99			108								
5.61			808								
5.74			123								
6.09			170								
6.47			1644								
6.88			2964								
7.11			106								
7.43			118								
7.90	7.82	7.96	21572	416798	Tetrachloro-m-Xylene	0.051757	9.584546		86.3	70 - 125	
8.14			620								
8.24			2909								
8.39			1450								
9.29			471								
9.45			932								
9.76			124								
9.86			418								
10.36			645								
10.74	10.63	10.77	516	248610	beta-BHC	0.002072	0.383614	0.945556			J
10.85			506								
10.95			2157								
11.05			1189								
11.26			8104								
11.42	11.33	11.47	681	551235	delta-BHC	0.001235	0.228779	1.888889			J
11.50	11.45	11.59	1073	579497	Heptachlor	0.001850	0.342570	1.888889			J
11.61			114								
11.67			480								
11.78			127								
11.86			1786								
12.07			523								
12.20			292								
12.39			1218								
12.51			450								
12.63			280								

CompuChem

Lab Smp Id : 1005129-17 Client Smp Id : SS85-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:26 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS85-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.99		27791								
13.53		558								
13.69		322								
13.92		106								
14.06	13.95 14.09	2837	513150	gamma-Chlordane	0.005527	1.023454	1.888889			J
14.29		210								
14.41		160								
14.54		345								
14.63		249								
14.74		103								
15.01		358								
15.17		445								
15.32		185								
15.36		326								
15.51		105								
15.65		143								
15.73		520								
15.82		433								
15.87		885								
15.98		165								
16.04		5794								
16.18		544								
16.26		1758								
16.48		124								
16.54		273								
16.65		664								
16.70		365								
16.80		1385								
16.88		626								
16.96		2698								
17.22		192								
17.30		184								
17.37		5044								
17.49		468								
17.57		2952								
17.69		266								
18.00		273								

CompuChem

Lab Smp Id : 1005129-17 Client Smp Id : SS85-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:26 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS85-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.10		1093								
18.27		528								
18.50		883								
18.63		467								
18.81		97								
18.95		221								
19.02		105								
19.12		319								
19.20		164								
19.28		3359								
19.58		185								
19.75		348								
19.88		1392								
20.09		217								
20.21		145								
20.66		110								
20.86		90								
21.04		250								
21.26	21.18 21.32	41201	406698	Decachlorobiphenyl	0.101304	18.75996		84.4	55 - 130	
21.61		507								
21.76		444								
22.09		582								
22.23		108								
22.51		242								
24.56		1439								
24.75		1187								
25.08		117								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS89-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.7	P
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	2.5	JP
60-57-1	Dieldrin	2.0	JP
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	16	
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	0.40	JP
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	2.6	J
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.3	JBP
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

Data File: /chem/tracegc84.i/j100528e.b/080j1005129-18.d

Date : 30-MAY-2010 06:55

Client ID: SS89-0-1

Instrument: tracegc84.i

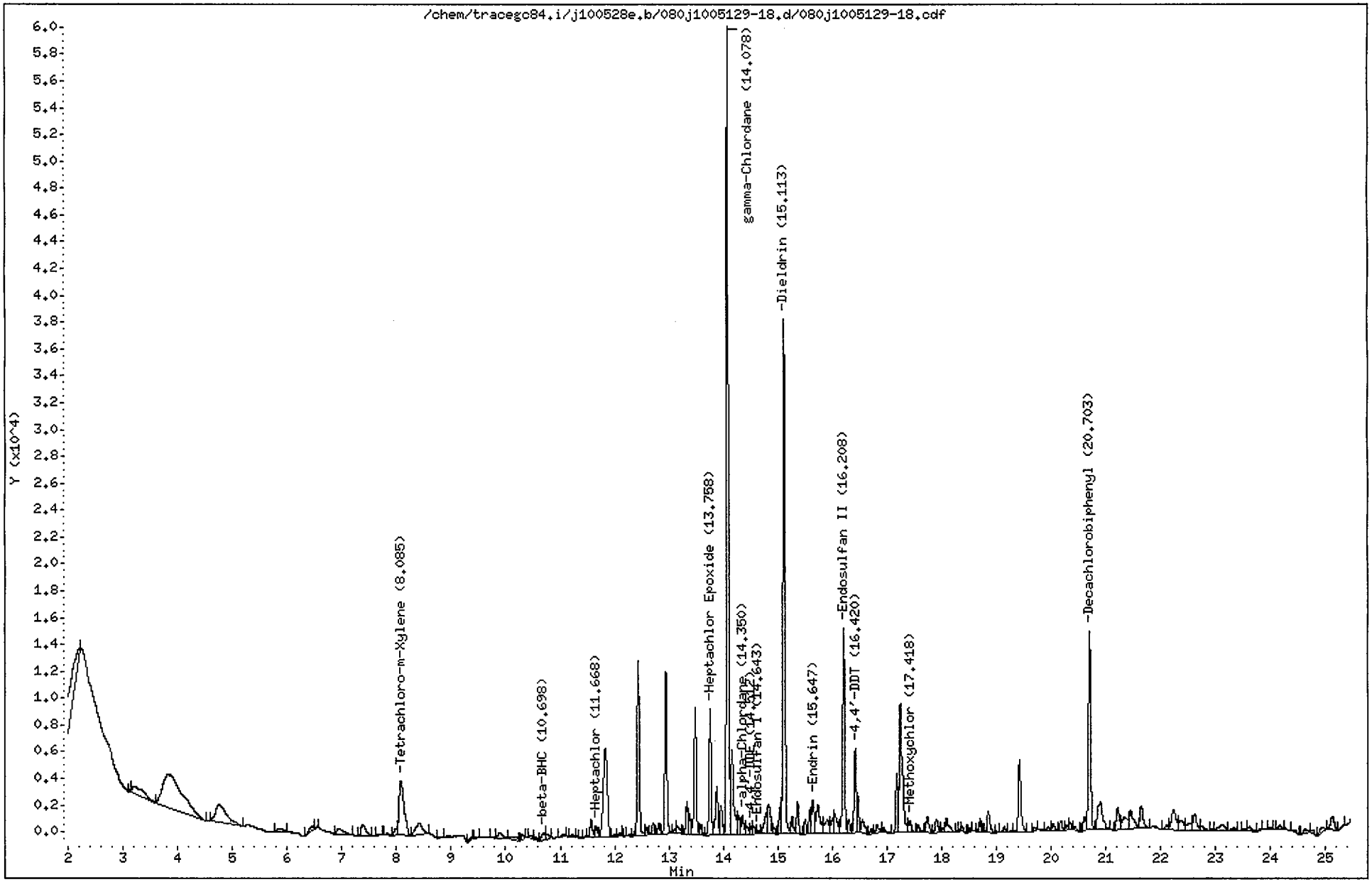
Sample Info: 1005129-18

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-18 Client Smp Id : SS89-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:55 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS89-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58			34992								
1.65			4885								
1.82			13112								
2.21			14969								
3.14			427								
3.20			9210								
3.83			63252								
4.76			19619								
5.86			1871								
6.45			1974								
6.54			282								
6.95			3570								
7.38			5188								
7.70			186								
7.84			487								
7.99			1408								
8.08	8.01	8.15	26083	522758	Tetrachloro-m-Xylene	0.049893	9.038608		83.2	70 - 125	
8.42			7521								
8.85			176								
9.38			495								
9.48			127								
9.77			168								
9.88			2281								
10.10			1739								
10.30			1060								
10.46			719								
10.56			777								
10.70	10.59	10.73	2738	300532	beta-BHC	0.009110	1.650452	0.925000			
10.78			1234								
11.06			571								
11.22			537								
11.38			143								
11.46			231								
11.57			4184								
11.67	11.55	11.69	2344	695465	Heptachlor	0.003370	0.610581	1.847826			J
11.83			34760								
12.00			876								

6/3/10

CompuChem

Lab Smp Id : 1005129-18 Client Smp Id : SS89-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS89-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.08		872								
12.19		137								
12.27		472								
12.36		634								
12.44		35030								
12.59		1747								
12.71		2520								
12.82		2251								
12.95		32133								
13.12		790								
13.16		2071								
13.33		6387								
13.38		4088								
13.48		25880								
13.59		2353								
13.76	13.68 13.82	24602	593700	Heptachlor Epoxide	0.041437	7.506658	1.847826			
13.88		11182								
13.96		6430								
14.08	13.97 14.11	148335	594875	gamma-Chlordane	0.249355	45.17299	1.847826			E
14.16		22687								
14.28		4204								
14.35	14.27 14.41	4338	516712	alpha-Chlordane	0.008393	1.520552	1.847826			J
14.44		1732								
14.51	14.45 14.59	1292	523741	4,4'-DDE	0.002467	0.446896	3.586957			J
14.55		1510								
14.64	14.57 14.71	667	548162	Endosulfan I	0.001217	0.220433	1.847826			J
14.79		5760								
14.83		8855								
14.93		1103								
15.05		5300								
15.11	15.10 15.24	96339	515556	Dieldrin	0.186862	33.85186	3.586957			E
15.27		3482								
15.36		6356								
15.50		2563								
15.59		4202								
15.65	15.61 15.75	8093	463071	Endrin	0.017477	3.166086	3.586957			J
15.74		10226								

CompuChem

Lab Smp Id : 1005129-18 Client Smp Id : SS89-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS89-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.91		5374								
16.01		3429								
16.05		6261								
16.21	16.09 16.23	39047	450326	Endosulfan II	0.086706	15.70761	3.586957			
16.30		2462								
16.42	16.35 16.49	16101	454781	4,4'-DDT	0.035404	6.413738	3.586957			M2
16.47		6251								
16.56		4373								
16.71		834								
16.82		2265								
16.94		1386								
17.18		10415								
17.24		38329								
17.42	17.37 17.51	2782	194359	Methoxychlor	0.014314	2.593065	18.47826			J
17.57		1866								
17.73		4564								
17.90		3425								
18.02		710								
18.09		4167								
18.33		207								
18.38		1031								
18.51		628								
18.66		290								
18.71		1887								
18.85		5823								
19.01		236								
19.14		1305								
19.27		373								
19.34		291								
19.42		17911								
19.69		683								
19.95		861								
20.04		1643								
20.18		2214								
20.29		1058								
20.36		1591								
20.44		952								

M2 RPT 6/2/10

CompuChem

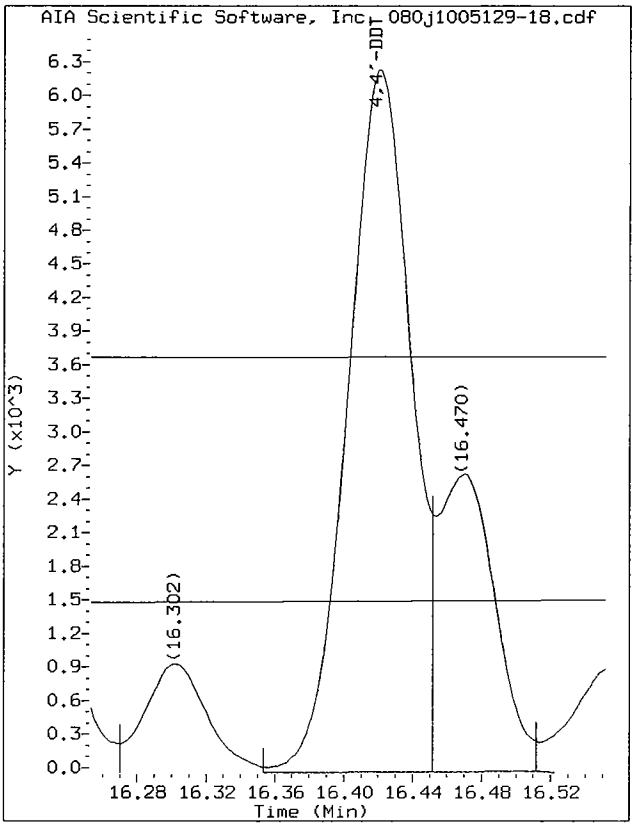
Lab Smp Id : 1005129-18 Client Smp Id : SS89-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : SS89-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

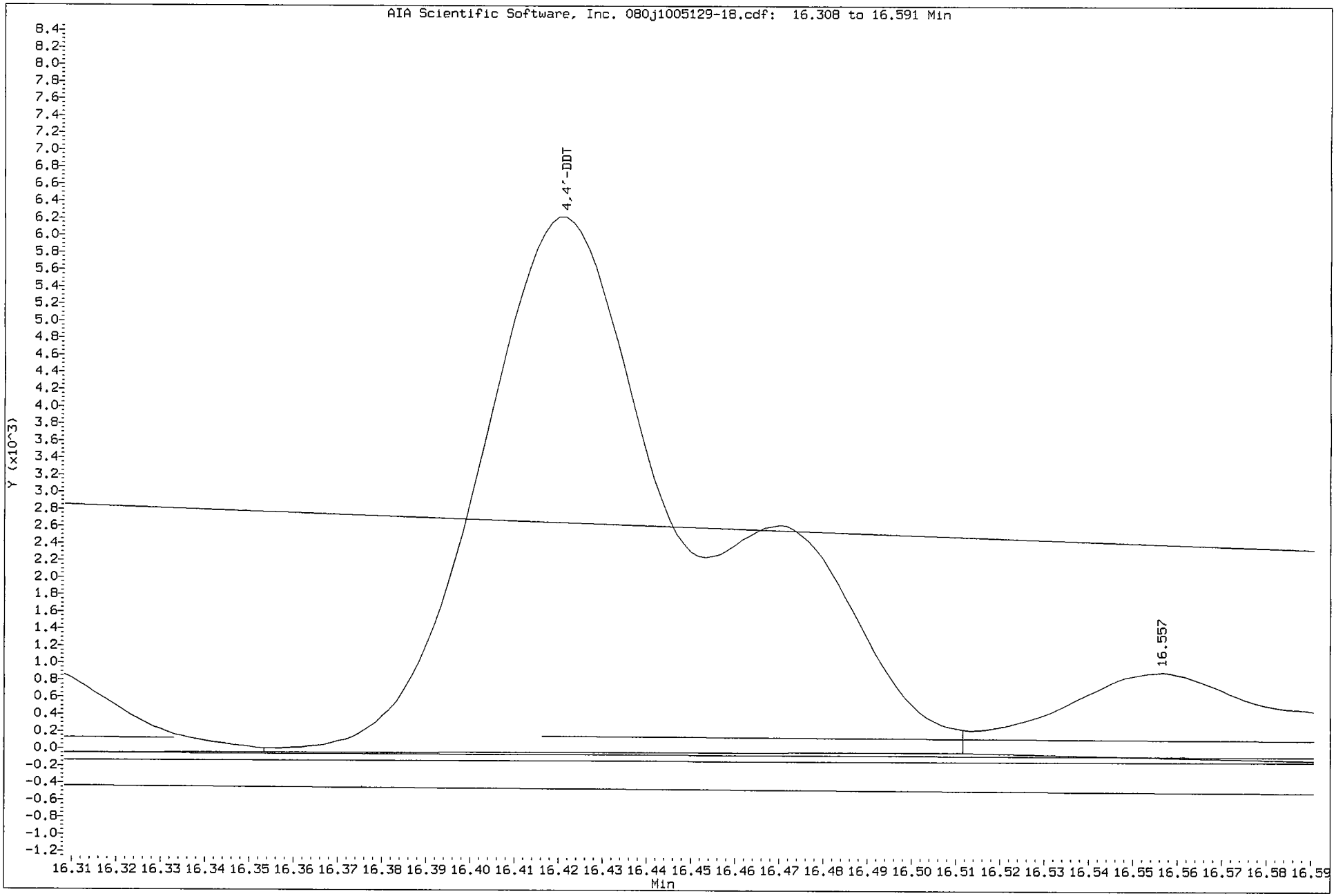
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.61		3441								
20.70	20.63 20.77	41272	408350	Decachlorobiphenyl	0.101068	18.30937		84.2	55 - 130	
20.90		13021								
21.21		6413								
21.34		5844								
21.45		7118								
21.65		6967								
22.11		1346								
22.23		9134								
22.38		4215								
22.54		3215								
22.62		5623								
22.76		1462								
23.13		3051								
23.33		932								
23.57		433								
23.62		1328								
23.82		187								
24.00		400								
24.16		851								
24.43		896								
24.64		1356								
24.76		1045								
24.96		2051								
25.12		4489								
25.34		257								

Manually Integrated Peaks



Start: 16.35 Stop: 16.45

Data File: /chem/tracegc84.i/j100528e.b/080j1005129-18.d/080j1005129-18.cdf
Injection Date: 30-MAY-2010 06:55
Instrument: tracegc84.i
Client Sample ID: SS89-0-1



Data File: /chem/tracegc84.i/j100528e_2C.b/080j1005129-18.d

Date : 30-MAY-2010 06:55

Client ID: SS89-0-1

Instrument: tracegc84.i

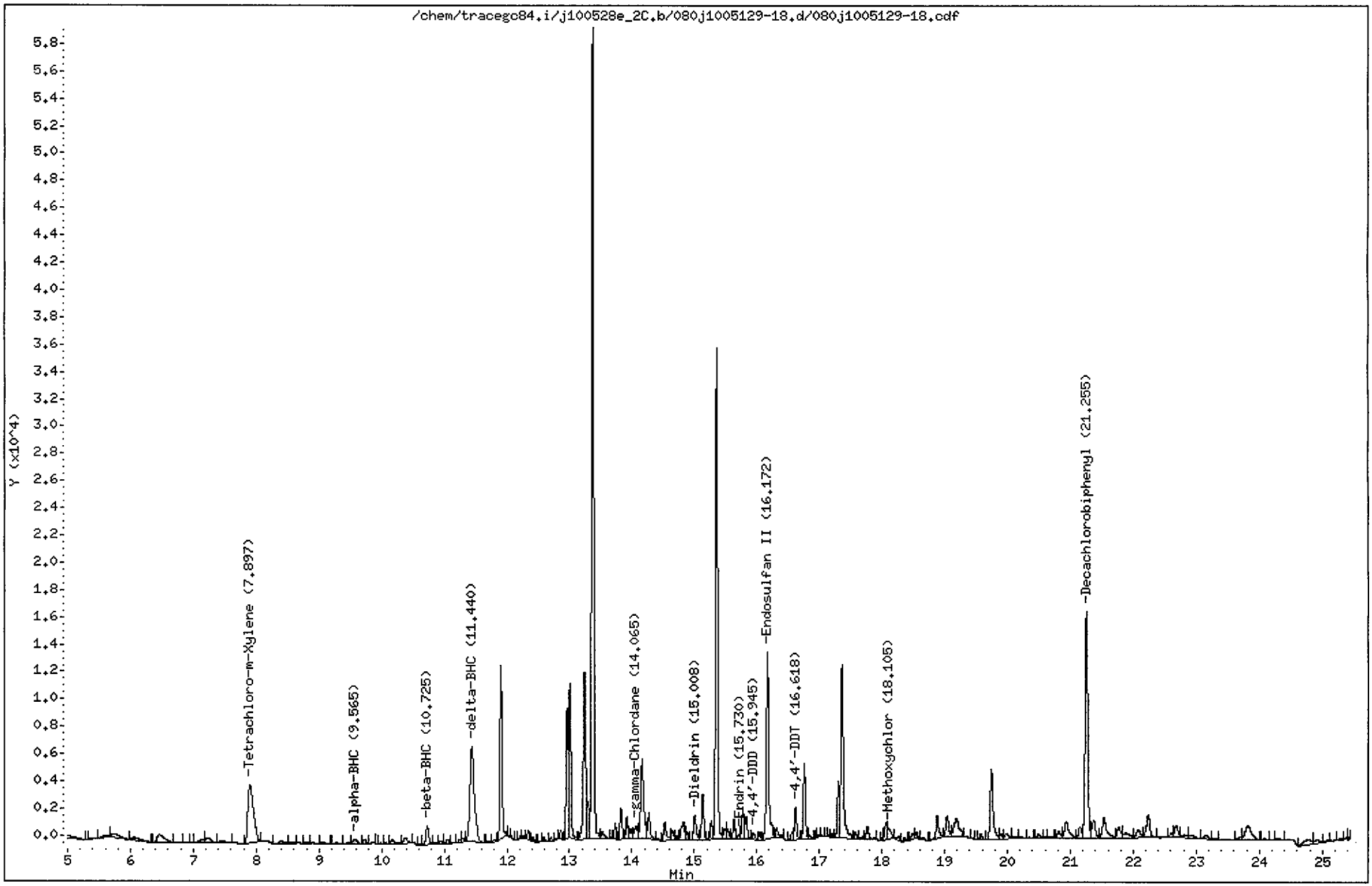
Sample Info: 1005129-18

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-18 Client Smp Id : SS89-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:55 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS89-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.03			70265								
2.83			2503								
3.14			4982								
3.56			1700								
4.34			9848								
5.03			1959								
5.44			317								
5.62			1149								
5.72			2790								
6.06			2085								
6.46			4503								
6.89			133								
7.14			1102								
7.22			2317								
7.45			883								
7.90	7.82	7.96	26309	416798	Tetrachloro-m-Xylene	0.063122	11.43511		105.2	70 - 125	
8.39			1307								
8.58			282								
8.79			269								
9.05			395								
9.28			421								
9.48			341								
9.56	9.48	9.62	1453	607758	alpha-BHC	0.002391	0.433108	1.847826			J
9.72			1018								
9.86			156								
9.99			116								
10.06			167								
10.18			1423								
10.37			1701								
10.62			167								
10.72	10.63	10.77	4429	248610	beta-BHC	0.017815	3.227364	0.925000			
10.86			578								
10.94			791								
11.05			878								
11.25			500								
11.29			756								
11.44	11.33	11.47	34883	551235	delta-BHC	0.063282	11.46405	1.847826			

6/3/10

CompuChem

Lab Smp Id : 1005129-18 Client Smp Id : SS89-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS89-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.71		391								
11.80		303								
11.90		29832								
12.07		280								
12.21		392								
12.27		404								
12.34		1420								
12.41		689								
12.52		172								
12.59		764								
12.70		586								
12.80		222								
12.86		1399								
12.96		19956								
13.01		27779								
13.24		32916								
13.29		5542								
13.37		135356								
13.53		1713								
13.67		227								
13.73		2269								
13.83		5681								
13.92		3548								
13.98		1915								
14.06	13.95 14.09	3574	513150	gamma-Chlordane	0.006965	1.261744	1.847826			J
14.16		20026								
14.27		5034								
14.41		442								
14.53		4076								
14.65		1698								
14.72		513								
14.82		4926								
14.89		1142								
15.01	14.99 15.13	5136	461929	Dieldrin	0.011119	2.014239	3.586957			J
15.14		8069								
15.27		3133								
15.36		81111								

CompuChem

Lab Smp Id : 1005129-18 Client Smp Id : SS89-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS89-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.49		1813								
15.53		2118								
15.63		3341								
15.73	15.65 15.79	903	408649	Endrin	0.002207	0.399869	3.586957			J
15.78		5255								
15.83		4087								
15.94	15.91 16.05	1136	340626	4,4'-DDD	0.003332	0.603641	3.586957			J
16.05		1300								
16.17	16.11 16.25	37199	404930	Endosulfan II	0.091863	16.64181	3.586957			
16.32		2289								
16.56		1187								
16.62	16.57 16.71	5576	405929	4,4'-DDT	0.013736	2.488478	3.586957			J
16.76		12979								
16.83		840								
16.95		154								
16.99		198								
17.03		315								
17.14		251								
17.20		545								
17.30		8637								
17.36		36997								
17.58		1212								
17.69		489								
17.77		2626								
18.02		431								
18.06		3399								
18.10	18.03 18.17	2680	182916	Methoxychlor	0.014652	2.654267	18.47826			JM
18.26		1026								
18.36		603								
18.49		1215								
18.55		1029								
18.64		550								
18.88		4841								
19.04		4841								
19.19		7728								
19.43		161								
19.58		1054								

CompuChem

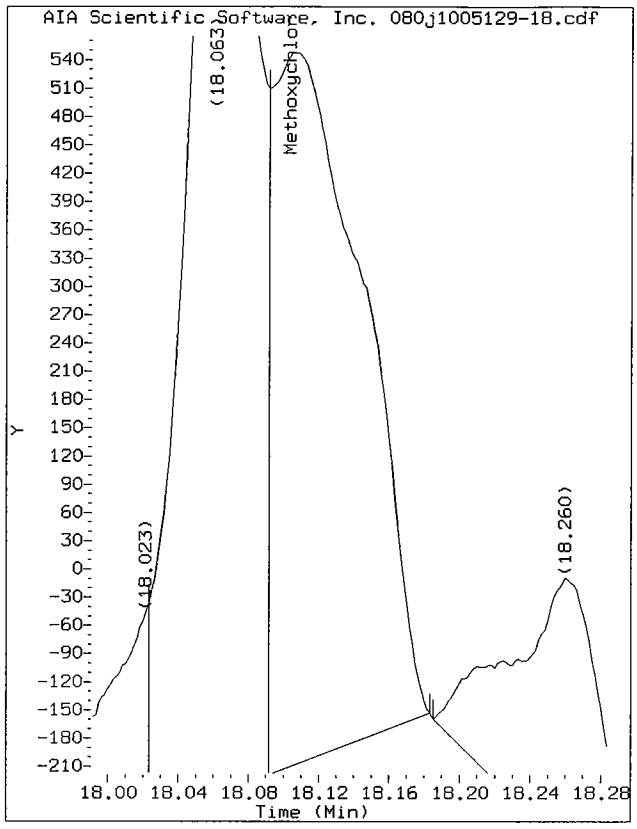
Lab Smp Id : 1005129-18 Client Smp Id : SS89-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 30-MAY-2010 06:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : SS89-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

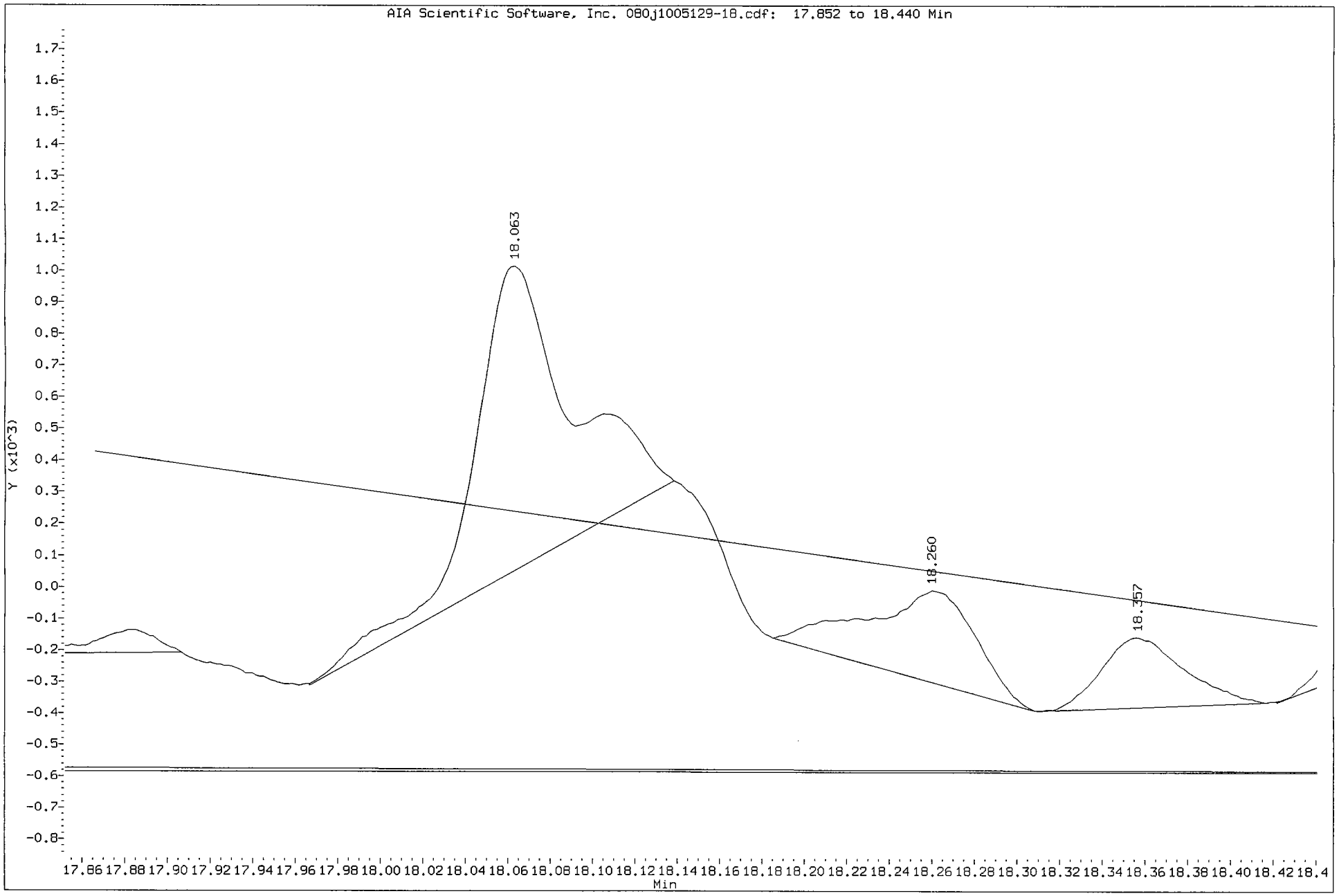
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.74		16776								
19.89		1089								
19.98		1627								
20.10		752								
20.21		519								
20.34		296								
20.49		1139								
20.60		228								
20.66		304								
20.81		1700								
20.93		6179								
21.16		2607								
21.26	21.18 21.32	47695	406698	Decachlorobiphenyl	0.117274	21.24527		97.7	55 - 130	
21.37		5338								
21.54		7104								
21.77		3254								
21.87		2398								
22.08		2532								
22.24		6561								
22.60		852								
22.68		3374								
22.81		1245								
22.92		1322								
23.15		1411								
23.30		400								
23.69		673								
23.82		6952								
24.08		216								
24.30		447								
24.79		2793								
24.92		1337								
25.08		194								
25.29		294								
25.39		221								

Manually Integrated Peaks



Start: 18.09 Stop: 18.18

Data File: /chem/tracegc84.i/j100528e_2C.b/080j1005129-18.d/080j1005129-18.cdf
Injection Date: 30-MAY-2010 06:55
Instrument: tracegc84.i
Client Sample ID: SS89-0-1



1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

SS89-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 1005129-18RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	9.2	U
319-85-7	beta-BHC	4.6	U
319-84-6	alpha-BHC	9.2	U
319-86-8	delta-BHC	9.2	U
58-89-9	gamma-BHC (Lindane)	9.2	U
72-54-8	4,4'-DDD	18	U
72-55-9	4,4'-DDE	2.2	DJP
50-29-3	4,4'-DDT	3.1	DJ
60-57-1	Dieldrin	2.2	DJP
959-98-8	Endosulfan I	1.6	DJ
33213-65-9	Endosulfan II	19	D
1031-07-8	Endosulfan sulfate	18	U
72-20-8	Endrin	4.4	DJ
7421-93-4	Endrin Aldehyde	18	U
76-44-8	Heptachlor	9.2	U
1024-57-3	Heptachlor Epoxide	9.2	U
72-43-5	Methoxychlor	92	U
8001-35-2	Toxaphene	450	U
53494-70-5	Endrin Ketone	18	U
5103-74-2	gamma-Chlordane	9.2	U
5103-71-9	alpha-Chlordane	9.2	U

Data File: /chem/tracegc84.i/j100528o.b/168j1005129-18.d

Date : 03-JUN-2010 18:55

Client ID: SS89-0-1DL

Sample Info: 1005129-18RE1

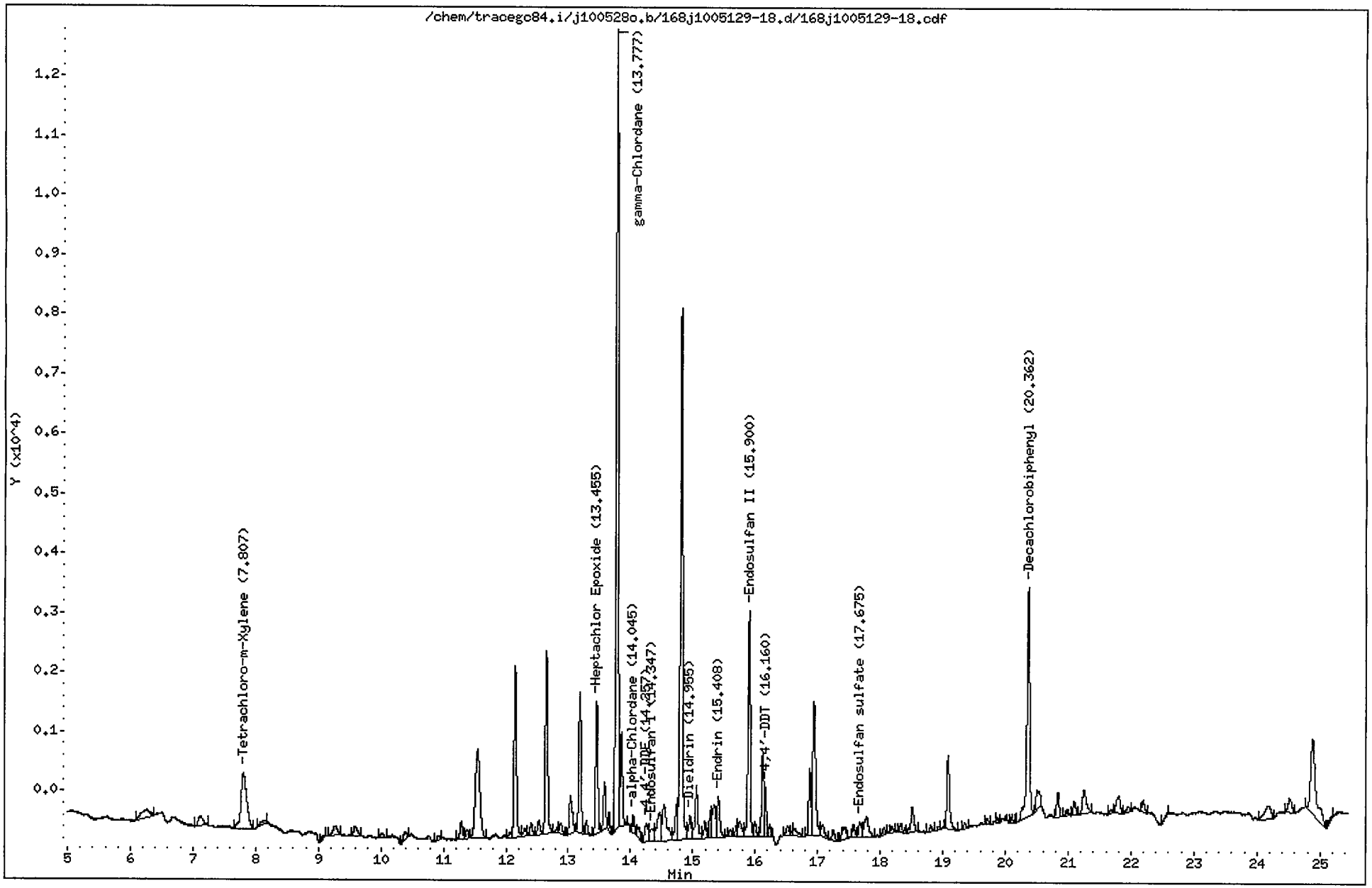
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-18RE1 Client Smp Id : SS89-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:55 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS89-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.46		41687								
2.04		3210								
3.04		4946								
3.60		225								
3.97		4273								
4.52		344								
6.25		1207								
7.12		852								
7.81	7.77 7.91	5983	522758	Tetrachloro-m-Xylene	0.011443	10.36519		95.4	70 - 125	
8.12		388								
9.10		166								
9.27		705								
9.59		689								
10.02		243								
10.39		533								
10.93		195								
11.29		878								
11.38		422								
11.55		7836								
12.07		260								
12.15		7758								
12.31		425								
12.41		653								
12.53		680								
12.65		8047								
12.82		253								
12.88		529								
13.03		2198								
13.19		5916								
13.29		545								
13.46	13.42 13.56	5518	593700	Heptachlor Epoxide	0.009293	8.417185	9.239130			J
13.58		2038								
13.65		569								
13.78	13.70 13.84	33678	594875	gamma-Chlordane	0.056614	51.28041	9.239130			
13.85		3956								
14.04	14.00 14.14	733	516712	alpha-Chlordane	0.001417	1.283196	9.239130			J
14.13		641								

6/4/10

CompuChem

Lab Smp Id : 1005129-18RE1 Client Smp Id : SS89-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS89-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.26	14.19 14.33	1258	523741	4,4'-DDE	0.002402	2.175679	17.93478			J
14.35	14.29 14.43	962	548162	Endosulfan I	0.001753	1.587980	9.239130			J
14.47		2298								
14.54		3015								
14.75		1871								
14.81		23305								
14.96	14.82 14.96	1240	515556	Dieldrin	0.002405	2.178595	17.93478			J
15.06		2955								
15.20		741								
15.28		1185								
15.34		1990								
15.41	15.33 15.47	2225	463071	Endrin	0.004805	4.352243	17.93478			J
15.60		278								
15.70		375								
15.75		959								
15.90	15.81 15.95	9660	450326	Endosulfan II	0.021451	19.43036	17.93478			
15.99		637								
16.12		3701								
16.16	16.08 16.22	1577	454781	4,4'-DDT	0.003468	3.140943	17.93478			JM2
16.24		427								
16.52		506								
16.59		121								
16.64		684								
16.87		2650								
16.94		7526								
17.08		940								
17.25		480								
17.40		992								
17.57		602								
17.68	17.65 17.79	842	392055	Endosulfan sulfate	0.002145	1.943032	17.93478			J
17.79		1868								
18.06		333								
18.18		297								
18.33		535								
18.51		1462								
18.81		305								
18.93		135								

6/4/10

CompuChem

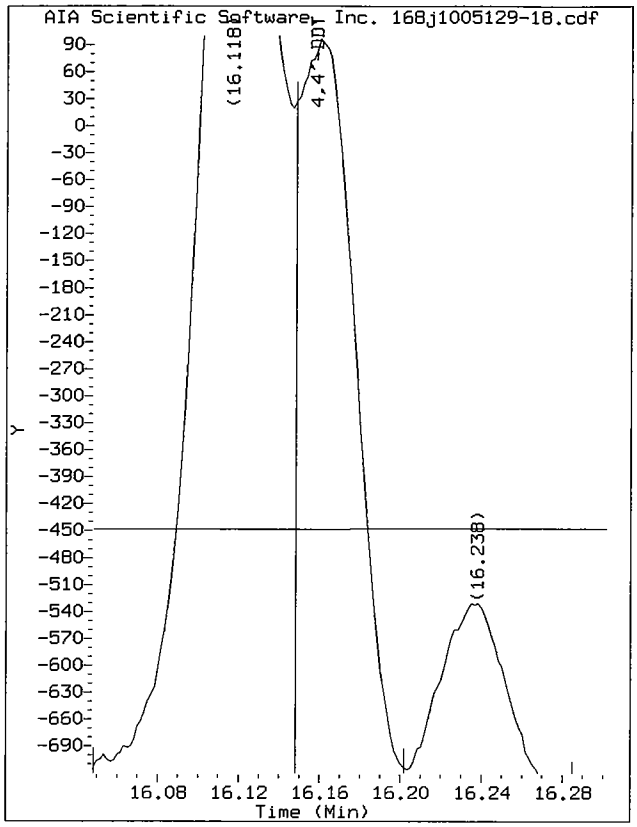
Lab Smp Id : 1005129-18RE1 Client Smp Id : SS89-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : SS89-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

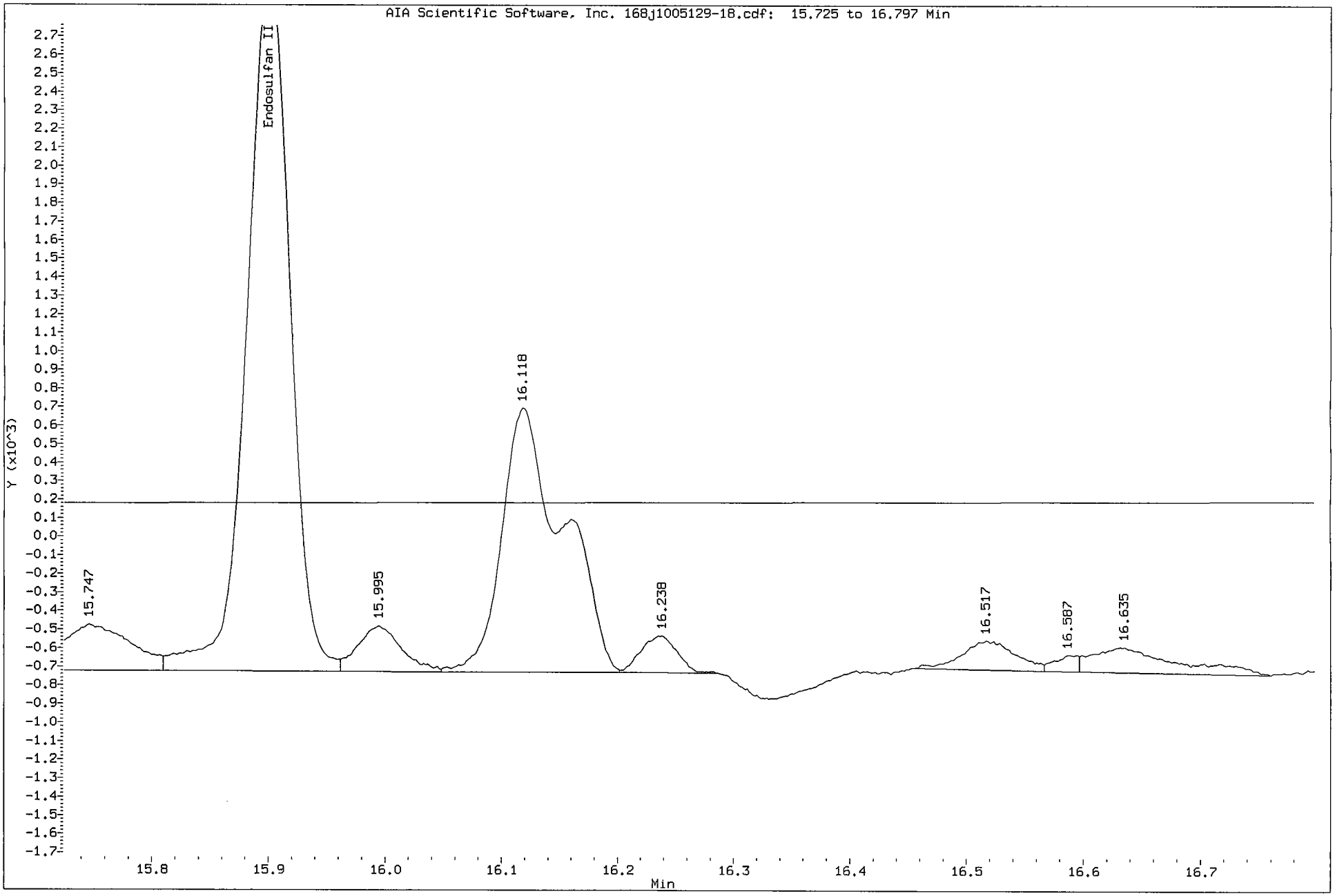
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.08		3780								
19.35		298								
19.71		265								
19.87		162								
20.10		195								
20.36	20.33 20.47	11653	408350	Decachlorobiphenyl	0.028537	25.84855		118.9	55 - 130	
20.51		1388								
20.84		1048								
20.97		318								
21.09		657								
21.25		1747								
21.69		174								
21.80		1322								
21.96		351								
22.19		587								
22.59		183								
24.18		1472								
24.52		930								
24.88		7240								
25.20		185								

Manually Integrated Peaks



Start: 16.15 Stop: 16.20

Data File: /chem/tracegc84.i/j100528o.b/168j1005129-18.d/168j1005129-18.cdf
Injection Date: 03-JUN-2010 18:55
Instrument: tracegc84.i
Client Sample ID: SS89-0-1DL



Data File: /chem/tracegc84.i/j100528o_2C.b/168jcdf1005129-18.d

Date : 03-JUN-2010 18:55

Client ID: SS89-0-1DL

Instrument: tracegc84.i

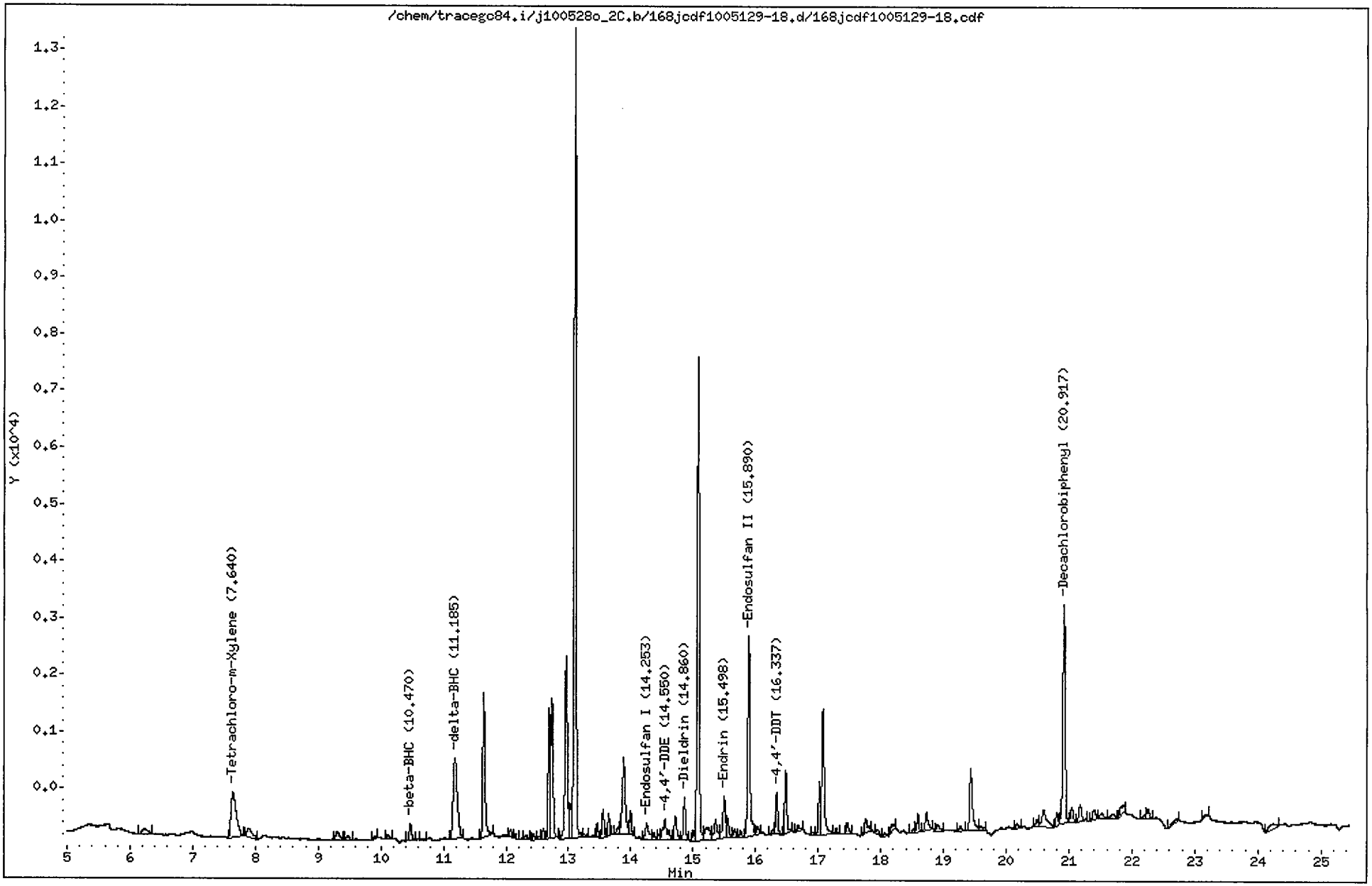
Sample Info: 1005129-18RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005129-18RE1 Client Smp Id : SS89-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:55 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS89-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.50		11862								
1.85		10461								
2.71		1050								
3.30		94								
4.12		128								
6.22		536								
7.64	7.61 7.75	4637	416798	Tetrachloro-m-Xylene	0.011123	10.07510		92.7	70 - 125	
7.90		840								
9.30		586								
9.47		241								
9.91		146								
10.10		288								
10.47	10.41 10.55	767	248610	beta-BHC	0.003085	2.794523	4.625000			J
10.67		107								
11.18	11.11 11.25	6613	551235	delta-BHC	0.011995	10.86493	9.239130			
11.64		6292								
12.07		288								
12.15		203								
12.32		196								
12.44		229								
12.53		156								
12.60		397								
12.69		4743								
12.73		5828								
12.96		8298								
13.03		1505								
13.10		31551								
13.24		194								
13.46		515								
13.55		1124								
13.64		743								
13.79		327								
13.88		4688								
14.00		921								
14.25	14.15 14.29	1218	477982	Endosulfan I	0.002546	2.306267	9.239130			J
14.37		308								
14.45		232								

6/4/10

CompuChem

Lab Smp Id : 1005129-18RE1 Client Smp Id : SS89-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS89-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.55	14.43 14.57	1772	468602	4,4'-DDE	0.003781	3.425232	17.93478			J
14.72		1291								
14.86	14.75 14.89	1744	461929	Dieldrin	0.003775	3.419813	17.93478			J
15.00		438								
15.08		19209								
15.21		1314								
15.36		1249								
15.50	15.40 15.54	1965	408649	Endrin	0.004809	4.355553	17.93478			J
15.55		924								
15.66		357								
15.76		225								
15.89	15.86 16.00	8950	404930	Endosulfan II	0.022103	20.02046	17.93478			
16.03		307								
16.28		236								
16.34	16.33 16.47	1714	405929	4,4'-DDT	0.004220	3.822421	17.93478			J
16.48		2682								
16.68		374								
16.91		102								
17.02		1925								
17.07		6305								
17.29		229								
17.47		560								
17.76		879								
17.95		269								
18.06		183								
18.17		539								
18.52		198								
18.59		704								
18.73		1035								
18.90		430								
19.27		226								
19.43		3498								
19.59		270								
20.18		206								
20.49		344								
20.60		1559								
20.81		529								

CompuChem

Lab Smp Id : 1005129-18RE1 Client Smp Id : SS89-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 18:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : SS89-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.92	20.90 21.04	10044	406698	Decachlorobiphenyl	0.024694	22.36778		102.9	55 - 130	
21.04		789								
21.18		995								
21.39		614								
21.52		379								
21.68		297								
21.83		618								
22.20		140								
22.25		544								
22.72		242								
23.18		103								
24.25		649								

3. Standards Data

a. Initial Calibration Data (Form VI)

b. Continuing Verification Summary (Form VII)

c. Analytical Sequence (Form VIII)

d. Identification Summary for Single Component Analytes (Form X)

e. Identification Summary for Multicomponent Analytes (Form X) – if applicable

f. Chromatograms and Data System Printouts

a. Initial Calibration Data
(Form VI)

For all GC columns, all instruments, in chronological order by GC column and instrument.

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1818 0201

LAB FILE ID: RF0.0025: 011J0E27RF0.005: 012J0E270RF0.01: 020J0E2701
RF0.02: 014J0E2701RF0.04: 015J0E2701

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	689000.00	667800.00	632900.00	607950.00	585200.00
beta-BHC	334400.00	297400.00	296600.00	291100.00	283162.50
alpha-BHC	798600.00	792600.00	769400.00	762100.00	757100.00
delta-BHC	705200.00	707400.00	683650.00	678075.00	673262.50
gamma-BHC (Lindane)	754800.00	745400.00	722300.00	718750.00	704712.50
4,4'-DDD	422300.00	410500.00	394025.00	374237.50	366225.00
4,4'-DDE	573800.00	546750.00	517475.00	496737.50	483943.75
4,4'-DDT	503900.00	479100.00	446900.00	427812.50	416193.75
Dieldrin	562300.00	538100.00	508150.00	489762.50	479468.75
Endosulfan I	594200.00	570900.00	555750.00	521425.00	498537.50
Endosulfan II	496600.00	469900.00	446300.00	426475.00	412356.25
Endosulfan sulfate	432700.00	416550.00	389175.00	368575.00	353275.00
Endrin	511200.00	486100.00	461225.00	435025.00	421806.25
Endrin Aldehyde	377500.00	364050.00	355425.00	330325.00	315050.00
Heptachlor	759800.00	731000.00	688850.00	661075.00	636600.00
Heptachlor Epoxide	650600.00	633000.00	591800.00	559950.00	533150.00
Methoxychlor	222640.00	208230.00	190545.00	179402.50	170977.50
Toxaphene			7421.000		
(2)			20833.000		
(3)			14312.500		
(4)			16310.000		
(5)			13342.000		
Endrin Ketone	497200.00	482900.00	453250.00	433600.00	419337.50
gamma-Chlordane	652000.00	634000.00	588300.00	561150.00	538925.00
alpha-Chlordane	569000.00	542600.00	515550.00	489675.00	466737.50
Decachlorobiphenyl	482100.00	446650.00	403000.00	369312.50	340687.50
Tetrachloro-m-Xylene	537800.00	545600.00	518200.00	513275.00	498912.50

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1818 0201

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	636570.000	6.7
beta-BHC	AVRG	300532.500	6.6
alpha-BHC	AVRG	775960.000	2.4
delta-BHC	AVRG	689517.500	2.3
gamma-BHC (Lindane)	AVRG	729192.500	2.8
4,4'-DDD	AVRG	393457.500	6.0
4,4'-DDE	AVRG	523741.250	7.0
4,4'-DDT	AVRG	454781.250	8.0
Dieldrin	AVRG	515556.250	6.6
Endosulfan I	AVRG	548162.500	7.0
Endosulfan II	AVRG	450326.250	7.5
Endosulfan sulfate	AVRG	392055.000	8.4
Endrin	AVRG	463071.250	7.9
Endrin Aldehyde	AVRG	348470.000	7.3
Heptachlor	AVRG	695465.000	7.2
Heptachlor Epoxide	AVRG	593700.000	8.2
Methoxychlor	AVRG	194359.000	10.8
Toxaphene	AVRG	7421.00000	0.0
(2)	AVRG	20833.0000	0.0
(3)	AVRG	14312.5000	0.0
(4)	AVRG	16310.0000	0.0
(5)	AVRG	13342.0000	0.0
Endrin Ketone	AVRG	457257.500	7.1
gamma-Chlordane	AVRG	594875.000	8.0
alpha-Chlordane	AVRG	516712.500	7.9
Decachlorobiphenyl	AVRG	408350.000	14.0
Tetrachloro-m-Xylene	AVRG	522757.500	3.6

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1818 0201

LAB FILE ID: RF0.0025: 011J0E27RF0.005: 012J0E270RF0.01: 020J0E2701
RF0.02: 014J0E2701RF0.04: 015J0E2701

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	543000.00	543500.00	537750.00	542075.00	544637.50
beta-BHC	251400.00	256400.00	246700.00	245775.00	242775.00
alpha-BHC	562000.00	589300.00	600750.00	631250.00	655487.50
delta-BHC	525200.00	534800.00	544550.00	567700.00	583925.00
gamma-BHC (Lindane)	558800.00	571500.00	581500.00	600750.00	615162.50
4,4'-DDD	333600.00	340000.00	339575.00	344112.50	345843.75
4,4'-DDE	482400.00	477550.00	465050.00	461000.00	457012.50
4,4'-DDT	414500.00	408650.00	400975.00	403962.50	401556.25
Dieldrin	465800.00	466850.00	460025.00	460187.50	456781.25
Endosulfan I	497200.00	488700.00	474850.00	468950.00	460212.50
Endosulfan II	422000.00	410950.00	403100.00	397450.00	391150.00
Endosulfan sulfate	384700.00	379650.00	363725.00	356675.00	348618.75
Endrin	421800.00	415300.00	404950.00	402612.50	398581.25
Endrin Aldehyde	325700.00	326950.00	322975.00	308375.00	300925.00
Heptachlor	549636.36	594700.00	584800.00	584750.00	583600.00
Heptachlor Epoxide	529000.00	519400.00	509950.00	503825.00	497387.50
Methoxychlor	201820.00	193160.00	181780.00	172997.50	164821.25
Toxaphene			15199.000		
(2)			18826.500		
(3)			23283.000		
(4)			19076.500		
(5)			7795.000		
Endrin Ketone	434900.00	429550.00	419150.00	411237.50	402756.25
gamma-Chlordane	526800.00	521000.00	508500.00	506025.00	503425.00
alpha-Chlordane	463600.00	454800.00	441750.00	437925.00	433162.50
Decachlorobiphenyl	466000.00	432800.00	401125.00	376587.50	356975.00
Tetrachloro-m-Xylene	429200.00	424600.00	410850.00	411550.00	407787.50

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1818 0201

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	542192.500	0.5
beta-BHC	AVRG	248610.000	2.1
alpha-BHC	AVRG	607757.500	6.0
delta-BHC	AVRG	551235.000	4.4
gamma-BHC (Lindane)	AVRG	585542.500	3.8
4,4'-DDD	AVRG	340626.250	1.4
4,4'-DDE	AVRG	468602.500	2.3
4,4'-DDT	AVRG	405928.750	1.4
Dieldrin	AVRG	461928.750	0.9
Endosulfan I	AVRG	477982.500	3.1
Endosulfan II	AVRG	404930.000	3.0
Endosulfan sulfate	AVRG	366673.750	4.2
Endrin	AVRG	408648.750	2.3
Endrin Aldehyde	AVRG	316985.000	3.7
Heptachlor	AVRG	579497.273	3.0
Heptachlor Epoxide	AVRG	511912.500	2.4
Methoxychlor	AVRG	182915.750	8.2
Toxaphene	AVRG	15199.0000	0.0
(2)	AVRG	18826.5000	0.0
(3)	AVRG	23283.0000	0.0
(4)	AVRG	19076.5000	0.0
(5)	AVRG	7795.00000	0.0
Endrin Ketone	AVRG	419518.750	3.1
gamma-Chlordane	AVRG	513150.000	2.0
alpha-Chlordane	AVRG	446247.500	2.8
Decachlorobiphenyl	AVRG	406697.500	10.7
Tetrachloro-m-Xylene	AVRG	416797.500	2.3

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1818 0201

LAB FILE ID: RT1: 011J0E27012-CRT2: 012J0E27012-CRT3: 020J0E27012-A
RT4: 014J0E27012-CRT5: 015J0E27012-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	12.340	12.340	12.340	12.340	12.340
beta-BHC	10.660	10.660	10.660	10.660	10.660
alpha-BHC	9.600	9.600	9.610	9.600	9.600
delta-BHC	11.090	11.090	11.100	11.090	11.090
gamma-BHC (Lindane)	10.430	10.430	10.430	10.430	10.430
4,4'-DDD	15.810	15.810	15.820	15.810	15.820
4,4'-DDE	14.510	14.520	14.520	14.510	14.520
4,4'-DDT	16.420	16.420	16.420	16.420	16.420
Dieldrin	15.160	15.170	15.170	15.160	15.170
Endosulfan I	14.630	14.640	14.640	14.630	14.640
Endosulfan II	16.160	16.160	16.160	16.160	16.160
Endosulfan sulfate	18.000	18.000	18.000	18.000	18.000
Endrin	15.680	15.680	15.680	15.680	15.680
Endrin Aldehyde	17.070	17.070	17.070	17.070	17.070
Heptachlor	11.620	11.620	11.620	11.620	11.620
Heptachlor Epoxide	13.750	13.750	13.750	13.750	13.750
Methoxychlor	17.440	17.440	17.440	17.440	17.450
Toxaphene			16.150		
(2)			16.290		
(3)			17.030		
(4)			17.900		
(5)			18.560		
Endrin Ketone	18.600	18.610	18.600	18.600	18.600
gamma-Chlordane	14.040	14.040	14.040	14.030	14.040
alpha-Chlordane	14.340	14.340	14.340	14.330	14.340
Decachlorobiphenyl	20.700	20.700	20.700	20.700	20.700
Tetrachloro-m-Xylene	8.090	8.080	8.090	8.080	8.080

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1818 0201

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	12.340	12.272	12.412
beta-BHC	10.660	10.588	10.728
alpha-BHC	9.602	9.533	9.673
delta-BHC	11.092	11.023	11.163
gamma-BHC (Lindane)	10.430	10.357	10.497
4,4'-DDD	15.814	15.747	15.887
4,4'-DDE	14.516	14.445	14.585
4,4'-DDT	16.420	16.350	16.490
Dieldrin	15.166	15.098	15.238
Endosulfan I	14.636	14.567	14.707
Endosulfan II	16.160	16.092	16.232
Endosulfan sulfate	18.000	17.933	18.073
Endrin	15.680	15.605	15.745
Endrin Aldehyde	17.070	16.997	17.137
Heptachlor	11.620	11.552	11.692
Heptachlor Epoxide	13.750	13.683	13.823
Methoxychlor	17.442	17.375	17.515
Toxaphene	16.150	16.078	16.218
(2)	16.290	16.223	16.363
(3)	17.030	16.957	17.097
(4)	17.900	17.827	17.967
(5)	18.560	18.493	18.633
Endrin Ketone	18.602	18.533	18.673
gamma-Chlordane	14.038	13.967	14.107
alpha-Chlordane	14.338	14.265	14.405
Decachlorobiphenyl	20.700	20.635	20.775
Tetrachloro-m-Xylene	8.084	8.012	8.152

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1818 0201

LAB FILE ID: RT1: 011J0E27012-CRT2: 012J0E27012-CRT3: 020J0E27012-A
RT4: 014J0E27012-CRT5: 015J0E27012-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	12.280	12.280	12.280	12.280	12.280
beta-BHC	10.700	10.700	10.700	10.690	10.700
alpha-BHC	9.550	9.550	9.550	9.550	9.550
delta-BHC	11.400	11.400	11.400	11.400	11.400
gamma-BHC (Lindane)	10.460	10.460	10.460	10.460	10.460
4,4'-DDD	15.970	15.980	15.970	15.970	15.980
4,4'-DDE	14.730	14.730	14.730	14.730	14.730
4,4'-DDT	16.640	16.640	16.640	16.640	16.640
Dieldrin	15.060	15.060	15.060	15.060	15.060
Endosulfan I	14.460	14.460	14.460	14.460	14.460
Endosulfan II	16.180	16.180	16.180	16.180	16.180
Endosulfan sulfate	17.490	17.490	17.490	17.490	17.490
Endrin	15.720	15.720	15.720	15.720	15.720
Endrin Aldehyde	16.900	16.900	16.900	16.900	16.900
Heptachlor	11.520	11.520	11.530	11.520	11.520
Heptachlor Epoxide	13.600	13.600	13.600	13.600	13.600
Methoxychlor	18.090	18.100	18.090	18.090	18.100
Toxaphene			15.610		
(2)			16.360		
(3)			16.920		
(4)			18.120		
(5)			18.540		
Endrin Ketone	18.630	18.630	18.630	18.630	18.630
gamma-Chlordane	14.020	14.020	14.020	14.020	14.020
alpha-Chlordane	14.350	14.350	14.350	14.340	14.350
Decachlorobiphenyl	21.250	21.250	21.250	21.250	21.250
Tetrachloro-m-Xylene	7.890	7.890	7.890	7.890	7.890

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1818 0201

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	12.280	12.208	12.348
beta-BHC	10.698	10.625	10.765
alpha-BHC	9.550	9.480	9.620
delta-BHC	11.400	11.330	11.470
gamma-BHC (Lindane)	10.460	10.390	10.530
4,4'-DDD	15.974	15.907	16.047
4,4'-DDE	14.730	14.665	14.805
4,4'-DDT	16.640	16.572	16.712
Dieldrin	15.060	14.993	15.133
Endosulfan I	14.460	14.392	14.532
Endosulfan II	16.180	16.108	16.248
Endosulfan sulfate	17.490	17.420	17.560
Endrin	15.720	15.652	15.792
Endrin Aldehyde	16.900	16.833	16.973
Heptachlor	11.522	11.453	11.593
Heptachlor Epoxide	13.600	13.528	13.668
Methoxychlor	18.094	18.027	18.167
Toxaphene	15.610	15.535	15.675
(2)	16.360	16.288	16.428
(3)	16.920	16.847	16.987
(4)	18.120	18.050	18.190
(5)	18.540	18.465	18.605
Endrin Ketone	18.630	18.557	18.697
gamma-Chlordane	14.020	13.952	14.092
alpha-Chlordane	14.348	14.277	14.417
Decachlorobiphenyl	21.250	21.180	21.320
Tetrachloro-m-Xylene	7.890	7.823	7.963

b. Continuing Calibration Summary (Form VII)

For all performance evaluation mixtures (if applicable) and Continuing calibration verification standards, on all GC columns and instruments, in chronological order by GC column and instrument.

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 05/29/10 Time: 1559

Lab File ID: 049JSEQ-CCV3 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	660097.50	0.01	3.70	20.00	AVRG
alpha-BHC	775960.00	814180.00	0.01	4.92	20.00	AVRG
beta-BHC	300532.50	312697.50	0.01	4.05	20.00	AVRG
delta-BHC	689517.50	727545.00	0.01	5.52	20.00	AVRG
gamma-BHC (Lindane)	729192.50	765765.00	0.01	5.02	20.00	AVRG
4,4'-DDD	393457.50	402422.50	0.01	2.28	20.00	AVRG
4,4'-DDE	523741.25	537836.25	0.01	2.69	20.00	AVRG
4,4'-DDT	454781.25	466395.00	0.01	2.55	20.00	AVRG
Dieldrin	515556.25	526920.00	0.01	2.20	20.00	AVRG
Endosulfan I	548162.50	571397.50	0.01	4.24	20.00	AVRG
Endosulfan II	450326.25	461213.75	0.01	2.42	20.00	AVRG
Endosulfan sulfate	392055.00	398643.75	0.01	1.68	20.00	AVRG
Endrin	463071.25	481845.00	0.01	4.05	20.00	AVRG
Endrin Aldehyde	348470.00	358693.75	0.01	2.93	20.00	AVRG
Heptachlor	695465.00	723785.00	0.01	4.07	20.00	AVRG
Heptachlor Epoxide	593700.00	613650.00	0.01	3.36	20.00	AVRG
Methoxychlor	194359.00	199072.75	0.01	2.42	20.00	AVRG
Endrin Ketone	457257.50	460186.25	0.01	0.64	20.00	AVRG
gamma-Chlordane	594875.00	613415.00	0.01	3.12	20.00	AVRG
alpha-Chlordane	516712.50	536490.00	0.01	3.83	20.00	AVRG
Decachlorobiphenyl	408350.00	426961.25	0.01	4.56	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	555185.00	0.01	6.20	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 05/29/10 Time: 1559

Lab File ID: 049JSEQ-CCV3 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	551002.50	0.01	1.62	20.00	AVRG
beta-BHC	248610.00	252425.00	0.01	1.53	20.00	AVRG
alpha-BHC	607757.50	615420.00	0.01	1.26	20.00	AVRG
delta-BHC	551235.00	562955.00	0.01	2.13	20.00	AVRG
gamma-BHC (Lindane)	585542.50	593565.00	0.01	1.37	20.00	AVRG
4,4'-DDD	340626.25	349600.00	0.01	2.63	20.00	AVRG
4,4'-DDE	468602.50	479135.00	0.01	2.25	20.00	AVRG
4,4'-DDT	405928.75	414636.25	0.01	2.14	20.00	AVRG
Dieldrin	461928.75	472272.50	0.01	2.24	20.00	AVRG
Endosulfan I	477982.50	485980.00	0.01	1.67	20.00	AVRG
Endosulfan II	404930.00	413505.00	0.01	2.12	20.00	AVRG
Endosulfan sulfate	366673.75	374707.50	0.01	2.19	20.00	AVRG
Endrin	408648.75	427643.75	0.01	4.65	20.00	AVRG
Endrin Aldehyde	316985.00	326420.00	0.01	2.98	20.00	AVRG
Heptachlor	579497.27	595890.00	0.01	2.83	20.00	AVRG
Heptachlor Epoxide	511912.50	518720.00	0.01	1.33	20.00	AVRG
Methoxychlor	182915.75	185629.00	0.01	1.48	20.00	AVRG
Endrin Ketone	419518.75	423463.75	0.01	0.94	20.00	AVRG
gamma-Chlordane	513150.00	519172.50	0.01	1.17	20.00	AVRG
alpha-Chlordane	446247.50	454790.00	0.01	1.91	20.00	AVRG
Decachlorobiphenyl	406697.50	411180.00	0.01	1.10	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	420655.00	0.01	0.92	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 05/29/10 Time: 2244

Lab File ID: 063JSEQ-CCV4 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	642450.00	0.01	0.92	20.00	AVRG
alpha-BHC	775960.00	789250.00	0.01	1.71	20.00	AVRG
beta-BHC	300532.50	288550.00	0.01	-3.99	20.00	AVRG
delta-BHC	689517.50	657750.00	0.01	-4.61	20.00	AVRG
gamma-BHC (Lindane)	729192.50	733450.00	0.01	0.58	20.00	AVRG
4,4'-DDD	393457.50	388125.00	0.01	-1.36	20.00	AVRG
4,4'-DDE	523741.25	515100.00	0.01	-1.65	20.00	AVRG
4,4'-DDT	454781.25	424300.00	0.01	-6.70	20.00	AVRG
Dieldrin	515556.25	504925.00	0.01	-2.06	20.00	AVRG
Endosulfan I	548162.50	575800.00	0.01	5.04	20.00	AVRG
Endosulfan II	450326.25	434600.00	0.01	-3.49	20.00	AVRG
Endosulfan sulfate	392055.00	365175.00	0.01	-6.86	20.00	AVRG
Endrin	463071.25	468725.00	0.01	1.22	20.00	AVRG
Endrin Aldehyde	348470.00	316625.00	0.01	-9.14	20.00	AVRG
Heptachlor	695465.00	703400.00	0.01	1.14	20.00	AVRG
Heptachlor Epoxide	593700.00	591800.00	0.01	-0.32	20.00	AVRG
Methoxychlor	194359.00	194250.00	0.01	-0.06	20.00	AVRG
Endrin Ketone	457257.50	419750.00	0.01	-8.20	20.00	AVRG
gamma-Chlordane	594875.00	587700.00	0.01	-1.21	20.00	AVRG
alpha-Chlordane	516712.50	510800.00	0.01	-1.14	20.00	AVRG
Decachlorobiphenyl	408350.00	406050.00	0.01	-0.56	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	536700.00	0.01	2.67	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 05/29/10 Time: 2244

Lab File ID: 063JSEQ-CCV4 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	532550.00	0.01	-1.78	20.00	AVRG
beta-BHC	248610.00	234650.00	0.01	-5.62	20.00	AVRG
alpha-BHC	607757.50	594450.00	0.01	-2.19	20.00	AVRG
delta-BHC	551235.00	499700.00	0.01	-9.35	20.00	AVRG
gamma-BHC (Lindane)	585542.50	571350.00	0.01	-2.42	20.00	AVRG
4,4'-DDD	340626.25	325025.00	0.01	-4.58	20.00	AVRG
4,4'-DDE	468602.50	463675.00	0.01	-1.05	20.00	AVRG
4,4'-DDT	405928.75	367725.00	0.01	-9.41	20.00	AVRG
Dieldrin	461928.75	452350.00	0.01	-2.07	20.00	AVRG
Endosulfan I	477982.50	464900.00	0.01	-2.74	20.00	AVRG
Endosulfan II	404930.00	385800.00	0.01	-4.72	20.00	AVRG
Endosulfan sulfate	366673.75	347125.00	0.01	-5.33	20.00	AVRG
Endrin	408648.75	413725.00	0.01	1.24	20.00	AVRG
Endrin Aldehyde	316985.00	300925.00	0.01	-5.07	20.00	AVRG
Heptachlor	579497.27	575900.00	0.01	-0.62	20.00	AVRG
Heptachlor Epoxide	511912.50	501650.00	0.01	-2.00	20.00	AVRG
Methoxychlor	182915.75	174850.00	0.01	-4.41	20.00	AVRG
Endrin Ketone	419518.75	391425.00	0.01	-6.70	20.00	AVRG
gamma-Chlordane	513150.00	502900.00	0.01	-2.00	20.00	AVRG
alpha-Chlordane	446247.50	434150.00	0.01	-2.71	20.00	AVRG
Decachlorobiphenyl	406697.50	389025.00	0.01	-4.34	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	407050.00	0.01	-2.34	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 05/30/10 Time: 0528

Lab File ID: 077JSEQ-CCV5 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	687850.00	0.01	8.06	20.00	AVRG
alpha-BHC	775960.00	848950.00	0.01	9.41	20.00	AVRG
beta-BHC	300532.50	302900.00	0.01	0.79	20.00	AVRG
delta-BHC	689517.50	686800.00	0.01	-0.39	20.00	AVRG
gamma-BHC (Lindane)	729192.50	791750.00	0.01	8.58	20.00	AVRG
4,4'-DDD	393457.50	409625.00	0.01	4.11	20.00	AVRG
4,4'-DDE	523741.25	511650.00	0.01	-2.31	20.00	AVRG
4,4'-DDT	454781.25	450425.00	0.01	-0.96	20.00	AVRG
Dieldrin	515556.25	548200.00	0.01	6.33	20.00	AVRG
Endosulfan I	548162.50	655600.00	0.01	19.60	20.00	AVRG
Endosulfan II	450326.25	460125.00	0.01	2.18	20.00	AVRG
Endosulfan sulfate	392055.00	392775.00	0.01	0.18	20.00	AVRG
Endrin	463071.25	504875.00	0.01	9.03	20.00	AVRG
Endrin Aldehyde	348470.00	357300.00	0.01	2.53	20.00	AVRG
Heptachlor	695465.00	757100.00	0.01	8.86	20.00	AVRG
Heptachlor Epoxide	593700.00	629500.00	0.01	6.03	20.00	AVRG
Methoxychlor	194359.00	207150.00	0.01	6.58	20.00	AVRG
Endrin Ketone	457257.50	457725.00	0.01	0.10	20.00	AVRG
gamma-Chlordane	594875.00	633900.00	0.01	6.56	20.00	AVRG
alpha-Chlordane	516712.50	550600.00	0.01	6.56	20.00	AVRG
Decachlorobiphenyl	408350.00	414725.00	0.01	1.56	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	574900.00	0.01	9.97	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 05/30/10 Time: 0528

Lab File ID: 077JSEQ-CCV5 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	577050.00	0.01	6.43	20.00	AVRG
beta-BHC	248610.00	245150.00	0.01	-1.39	20.00	AVRG
alpha-BHC	607757.50	645800.00	0.01	6.26	20.00	AVRG
delta-BHC	551235.00	526850.00	0.01	-4.42	20.00	AVRG
gamma-BHC (Lindane)	585542.50	621400.00	0.01	6.12	20.00	AVRG
4,4'-DDD	340626.25	337475.00	0.01	-0.92	20.00	AVRG
4,4'-DDE	468602.50	479500.00	0.01	2.32	20.00	AVRG
4,4'-DDT	405928.75	407000.00	0.01	0.26	20.00	AVRG
Dieldrin	461928.75	489975.00	0.01	6.07	20.00	AVRG
Endosulfan I	477982.50	506400.00	0.01	5.94	20.00	AVRG
Endosulfan II	404930.00	425600.00	0.01	5.10	20.00	AVRG
Endosulfan sulfate	366673.75	404325.00	0.01	10.27	20.00	AVRG
Endrin	408648.75	450000.00	0.01	10.12	20.00	AVRG
Endrin Aldehyde	316985.00	322775.00	0.01	1.83	20.00	AVRG
Heptachlor	579497.27	623600.00	0.01	7.61	20.00	AVRG
Heptachlor Epoxide	511912.50	541300.00	0.01	5.74	20.00	AVRG
Methoxychlor	182915.75	184430.00	0.01	0.83	20.00	AVRG
Endrin Ketone	419518.75	423850.00	0.01	1.03	20.00	AVRG
gamma-Chlordane	513150.00	540100.00	0.01	5.25	20.00	AVRG
alpha-Chlordane	446247.50	468100.00	0.01	4.90	20.00	AVRG
Decachlorobiphenyl	406697.50	417975.00	0.01	2.77	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	439950.00	0.01	5.55	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 05/30/10 Time: 0920

Lab File ID: 085JSEQ-CCV6 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	678555.00	0.01	6.60	20.00	AVRG
alpha-BHC	775960.00	833162.50	0.01	7.37	20.00	AVRG
beta-BHC	300532.50	297012.50	0.01	-1.17	20.00	AVRG
delta-BHC	689517.50	665027.50	0.01	-3.55	20.00	AVRG
gamma-BHC (Lindane)	729192.50	776940.00	0.01	6.55	20.00	AVRG
4,4'-DDD	393457.50	396642.50	0.01	0.81	20.00	AVRG
4,4'-DDE	523741.25	484123.75	0.01	-7.56	20.00	AVRG
4,4'-DDT	454781.25	434727.50	0.01	-4.41	20.00	AVRG
Dieldrin	515556.25	541097.50	0.01	4.95	20.00	AVRG
Endosulfan I	548162.50	633497.50	0.01	15.57	20.00	AVRG
Endosulfan II	450326.25	475830.00	0.01	5.66	20.00	AVRG
Endosulfan sulfate	392055.00	390081.25	0.01	-0.50	20.00	AVRG
Endrin	463071.25	498691.25	0.01	7.69	20.00	AVRG
Endrin Aldehyde	348470.00	336827.50	0.01	-3.34	20.00	AVRG
Heptachlor	695465.00	739762.50	0.01	6.37	20.00	AVRG
Heptachlor Epoxide	593700.00	626790.00	0.01	5.57	20.00	AVRG
Methoxychlor	194359.00	198220.00	0.01	1.99	20.00	AVRG
Endrin Ketone	457257.50	444647.50	0.01	-2.76	20.00	AVRG
gamma-Chlordane	594875.00	630997.50	0.01	6.07	20.00	AVRG
alpha-Chlordane	516712.50	543492.50	0.01	5.18	20.00	AVRG
Decachlorobiphenyl	408350.00	406240.00	0.01	-0.52	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	562980.00	0.01	7.69	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 05/30/10 Time: 0920

Lab File ID: 085JSEQ-CCV6 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	566700.00	0.01	4.52	20.00	AVRG
beta-BHC	248610.00	241200.00	0.01	-2.98	20.00	AVRG
alpha-BHC	607757.50	627950.00	0.01	3.32	20.00	AVRG
delta-BHC	551235.00	510350.00	0.01	-7.42	20.00	AVRG
gamma-BHC (Lindane)	585542.50	607350.00	0.01	3.72	20.00	AVRG
4,4'-DDD	340626.25	304750.00	0.01	-10.53	20.00	AVRG
4,4'-DDE	468602.50	450200.00	0.01	-3.93	20.00	AVRG
4,4'-DDT	405928.75	391200.00	0.01	-3.63	20.00	AVRG
Dieldrin	461928.75	479850.00	0.01	3.88	20.00	AVRG
Endosulfan I	477982.50	492700.00	0.01	3.08	20.00	AVRG
Endosulfan II	404930.00	428525.00	0.01	5.83	20.00	AVRG
Endosulfan sulfate	366673.75	390475.00	0.01	6.49	20.00	AVRG
Endrin	408648.75	438200.00	0.01	7.23	20.00	AVRG
Endrin Aldehyde	316985.00	315575.00	0.01	-0.44	20.00	AVRG
Heptachlor	579497.27	612200.00	0.01	5.64	20.00	AVRG
Heptachlor Epoxide	511912.50	531950.00	0.01	3.91	20.00	AVRG
Methoxychlor	182915.75	176300.00	0.01	-3.62	20.00	AVRG
Endrin Ketone	419518.75	413650.00	0.01	-1.40	20.00	AVRG
gamma-Chlordane	513150.00	534300.00	0.01	4.12	20.00	AVRG
alpha-Chlordane	446247.50	461050.00	0.01	3.32	20.00	AVRG
Decachlorobiphenyl	406697.50	409425.00	0.01	0.67	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	428300.00	0.01	2.76	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 06/03/10 Time: 1333

Lab File ID: 158JSEQ-CCV1 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	658200.00	0.01	3.40	20.00	AVRG
alpha-BHC	775960.00	809732.50	0.01	4.35	20.00	AVRG
beta-BHC	300532.50	315120.00	0.01	4.85	20.00	AVRG
delta-BHC	689517.50	656720.00	0.01	-4.76	20.00	AVRG
gamma-BHC (Lindane)	729192.50	757355.00	0.01	3.86	20.00	AVRG
4,4'-DDD	393457.50	403428.75	0.01	2.53	20.00	AVRG
4,4'-DDE	523741.25	534906.25	0.01	2.13	20.00	AVRG
4,4'-DDT	454781.25	463620.00	0.01	1.94	20.00	AVRG
Dieldrin	515556.25	530947.50	0.01	2.98	20.00	AVRG
Endosulfan I	548162.50	572255.00	0.01	4.40	20.00	AVRG
Endosulfan II	450326.25	462638.75	0.01	2.73	20.00	AVRG
Endosulfan sulfate	392055.00	401157.50	0.01	2.32	20.00	AVRG
Endrin	463071.25	495518.75	0.01	7.01	20.00	AVRG
Endrin Aldehyde	348470.00	359903.75	0.01	3.28	20.00	AVRG
Heptachlor	695465.00	712877.50	0.01	2.50	20.00	AVRG
Heptachlor Epoxide	593700.00	609080.00	0.01	2.59	20.00	AVRG
Methoxychlor	194359.00	193827.00	0.01	-0.27	20.00	AVRG
Endrin Ketone	457257.50	456483.75	0.01	-0.17	20.00	AVRG
gamma-Chlordane	594875.00	607097.50	0.01	2.05	20.00	AVRG
alpha-Chlordane	516712.50	532890.00	0.01	3.13	20.00	AVRG
Decachlorobiphenyl	408350.00	399247.50	0.01	-2.23	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	542692.50	0.01	3.81	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 06/03/10 Time: 1333

Lab File ID: 158JCDFSEQ-CCV Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	546602.50	0.01	0.81	20.00	AVRG
beta-BHC	248610.00	246775.00	0.01	-0.74	20.00	AVRG
alpha-BHC	607757.50	608147.50	0.01	0.06	20.00	AVRG
delta-BHC	551235.00	547237.50	0.01	-0.72	20.00	AVRG
gamma-BHC (Lindane)	585542.50	579142.50	0.01	-1.09	20.00	AVRG
4,4'-DDD	340626.25	344050.00	0.01	1.00	20.00	AVRG
4,4'-DDE	468602.50	476765.00	0.01	1.74	20.00	AVRG
4,4'-DDT	405928.75	404463.75	0.01	-0.36	20.00	AVRG
Dieldrin	461928.75	474745.00	0.01	2.77	20.00	AVRG
Endosulfan I	477982.50	485932.50	0.01	1.66	20.00	AVRG
Endosulfan II	404930.00	415087.50	0.01	2.51	20.00	AVRG
Endosulfan sulfate	366673.75	371657.50	0.01	1.36	20.00	AVRG
Endrin	408648.75	436000.00	0.01	6.69	20.00	AVRG
Endrin Aldehyde	316985.00	327010.00	0.01	3.16	20.00	AVRG
Heptachlor	579497.27	589545.00	0.01	1.73	20.00	AVRG
Heptachlor Epoxide	511912.50	521725.00	0.01	1.92	20.00	AVRG
Methoxychlor	182915.75	183664.50	0.01	0.41	20.00	AVRG
Endrin Ketone	419518.75	419690.00	0.01	0.04	20.00	AVRG
gamma-Chlordane	513150.00	519275.00	0.01	1.19	20.00	AVRG
alpha-Chlordane	446247.50	450405.00	0.01	0.93	20.00	AVRG
Decachlorobiphenyl	406697.50	397093.75	0.01	-2.36	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	410955.00	0.01	-1.40	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 06/03/10 Time: 2021

Lab File ID: 171JSEQ-CCV2 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	659400.00	0.01	3.59	20.00	AVRG
alpha-BHC	775960.00	814250.00	0.01	4.93	20.00	AVRG
beta-BHC	300532.50	317700.00	0.01	5.71	20.00	AVRG
delta-BHC	689517.50	702850.00	0.01	1.93	20.00	AVRG
gamma-BHC (Lindane)	729192.50	763850.00	0.01	4.75	20.00	AVRG
4,4'-DDD	393457.50	398500.00	0.01	1.28	20.00	AVRG
4,4'-DDE	523741.25	522550.00	0.01	-0.23	20.00	AVRG
4,4'-DDT	454781.25	458850.00	0.01	0.89	20.00	AVRG
Dieldrin	515556.25	528725.00	0.01	2.55	20.00	AVRG
Endosulfan I	548162.50	547450.00	0.01	-0.13	20.00	AVRG
Endosulfan II	450326.25	459775.00	0.01	2.10	20.00	AVRG
Endosulfan sulfate	392055.00	399200.00	0.01	1.82	20.00	AVRG
Endrin	463071.25	487375.00	0.01	5.25	20.00	AVRG
Endrin Aldehyde	348470.00	360650.00	0.01	3.50	20.00	AVRG
Heptachlor	695465.00	718350.00	0.01	3.29	20.00	AVRG
Heptachlor Epoxide	593700.00	610250.00	0.01	2.79	20.00	AVRG
Methoxychlor	194359.00	191925.00	0.01	-1.25	20.00	AVRG
Endrin Ketone	457257.50	458875.00	0.01	0.35	20.00	AVRG
gamma-Chlordane	594875.00	611550.00	0.01	2.80	20.00	AVRG
alpha-Chlordane	516712.50	532150.00	0.01	2.99	20.00	AVRG
Decachlorobiphenyl	408350.00	395700.00	0.01	-3.10	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	546150.00	0.01	4.47	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: TRACEGC84 Calibration Date: 06/03/10 Time: 2021

Lab File ID: 171JCDFSEQ-CCV Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	551152.50	0.01	1.65	20.00	AVRG
beta-BHC	248610.00	250365.00	0.01	0.70	20.00	AVRG
alpha-BHC	607757.50	616125.00	0.01	1.38	20.00	AVRG
delta-BHC	551235.00	553985.00	0.01	0.50	20.00	AVRG
gamma-BHC (Lindane)	585542.50	591697.50	0.01	1.05	20.00	AVRG
4,4'-DDD	340626.25	344102.50	0.01	1.02	20.00	AVRG
4,4'-DDE	468602.50	477871.25	0.01	1.98	20.00	AVRG
4,4'-DDT	405928.75	404477.50	0.01	-0.36	20.00	AVRG
Dieldrin	461928.75	474270.00	0.01	2.67	20.00	AVRG
Endosulfan I	477982.50	487572.50	0.01	2.01	20.00	AVRG
Endosulfan II	404930.00	415475.00	0.01	2.60	20.00	AVRG
Endosulfan sulfate	366673.75	373846.25	0.01	1.96	20.00	AVRG
Endrin	408648.75	436056.25	0.01	6.71	20.00	AVRG
Endrin Aldehyde	316985.00	327142.50	0.01	3.20	20.00	AVRG
Heptachlor	579497.27	593632.50	0.01	2.44	20.00	AVRG
Heptachlor Epoxide	511912.50	522910.00	0.01	2.15	20.00	AVRG
Methoxychlor	182915.75	182095.25	0.01	-0.45	20.00	AVRG
Endrin Ketone	419518.75	420385.00	0.01	0.21	20.00	AVRG
gamma-Chlordane	513150.00	523150.00	0.01	1.95	20.00	AVRG
alpha-Chlordane	446247.50	453482.50	0.01	1.62	20.00	AVRG
Decachlorobiphenyl	406697.50	396947.50	0.01	-2.40	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	418590.00	0.01	0.43	20.00	AVRG

FORM VII PEST

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMHA Date Analyzed :05/28/10

Lab Sample ID (PEM): 0E27012-PEM1 Time Analyzed :1749

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	14.50	14.45	14.59	134
4,4'-DDT	16.42	16.35	16.49	13271
Endrin	15.68	15.61	15.74	10368
Endrin Aldehyde	17.07	17.00	17.14	184
Endrin Ketone	18.61	18.53	18.67	230

4,4'-DDT % breakdown (1): 1.000 Endrin % breakdown (1): 3.84

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMHA Date Analyzed :05/28/10

Lab Sample ID (PEM): 0E27012-PEM1 Time Analyzed :1749

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.91	15.91	16.05	30
4,4'-DDE	14.73	14.66	14.80	94
4,4'-DDT	16.64	16.57	16.71	11744
Endrin	15.72	15.65	15.79	8924
Endrin Aldehyde	16.91	16.83	16.97	100
Endrin Ketone	18.63	18.56	18.70	174

4,4'-DDT % breakdown (1): 1.04 Endrin % breakdown (1): 2.98

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJG Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :1530

EPA Sample No.(PEM): PEMJG Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :1628

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.82	15.75	15.89	242
4,4'-DDE	14.51	14.45	14.59	189
4,4'-DDT	16.42	16.35	16.49	14366
Endrin	15.67	15.61	15.74	11712
Endrin Aldehyde				
Endrin Ketone	18.60	18.53	18.67	295

4,4'-DDT % breakdown (1): 2.91 Endrin % breakdown (1): 2.46

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJH Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :1530

EPA Sample No.(PEM): PEMJH Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :1628

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.98	15.91	16.05	120
4,4'-DDE	14.73	14.66	14.80	146
4,4'-DDT	16.64	16.57	16.71	12617
Endrin	15.72	15.65	15.79	9719
Endrin Aldehyde	16.91	16.83	16.97	115
Endrin Ketone	18.63	18.56	18.70	198

4,4'-DDT % breakdown (1): 2.06 Endrin % breakdown (1): 3.12

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJI Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB4 Time Analyzed :2215

EPA Sample No.(PEM): PEMJJ Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM4 Time Analyzed :2313

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	14.52	14.45	14.59	247
4,4'-DDT	16.42	16.35	16.49	13015
Endrin	15.67	15.61	15.74	10975
Endrin Aldehyde	17.07	17.00	17.14	150
Endrin Ketone	18.60	18.53	18.67	215

4,4'-DDT % breakdown (1): 1.86 Endrin % breakdown (1): 3.22

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJJ Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB4 Time Analyzed :2215

EPA Sample No.(PEM): PEMJJ Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM4 Time Analyzed :2313

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.99	15.91	16.05	178
4,4'-DDE	14.74	14.66	14.80	182
4,4'-DDT	16.65	16.57	16.71	11202
Endrin	15.72	15.65	15.79	9315
Endrin Aldehyde	16.91	16.83	16.97	138
Endrin Ketone	18.63	18.56	18.70	175

4,4'-DDT % breakdown (1): 3.11 Endrin % breakdown (1): 3.25

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJK Date Analyzed :05/30/10

Lab Sample ID (PIBLK): SEQ-CCB5 Time Analyzed :0500

EPA Sample No.(PEM): PEMJL Date Analyzed :05/30/10

Lab Sample ID (PEM): SEQ-PEM5 Time Analyzed :0557

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.82	15.75	15.89	442
4,4'-DDE	14.51	14.45	14.59	649
4,4'-DDT	16.42	16.35	16.49	12724
Endrin	15.67	15.61	15.74	11614
Endrin Aldehyde	17.06	17.00	17.14	591
Endrin Ketone	18.60	18.53	18.67	693

4,4'-DDT % breakdown (1): 7.90 Endrin % breakdown (1): 9.96

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJL Date Analyzed :05/30/10

Lab Sample ID (PIBLK): SEQ-CCB5 Time Analyzed :0500

EPA Sample No.(PEM): PEMJL Date Analyzed :05/30/10

Lab Sample ID (PEM): SEQ-PEM5 Time Analyzed :0557

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.98	15.91	16.05	311
4,4'-DDE	14.74	14.66	14.80	532
4,4'-DDT	16.64	16.57	16.71	10969
Endrin	15.72	15.65	15.79	9520
Endrin Aldehyde	16.91	16.83	16.97	507
Endrin Ketone	18.63	18.56	18.70	622

4,4'-DDT % breakdown (1): 7.14 Endrin % breakdown (1): 10.6

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJM Date Analyzed :05/30/10

Lab Sample ID (PIBLK): SEQ-CCB6 Time Analyzed :0851

EPA Sample No.(PEM): PEMJN Date Analyzed :05/30/10

Lab Sample ID (PEM): SEQ-PEM6 Time Analyzed :0949

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.82	15.75	15.89	469
4,4'-DDE	14.51	14.45	14.59	657
4,4'-DDT	16.42	16.35	16.49	12878
Endrin	15.67	15.61	15.74	11479
Endrin Aldehyde	17.06	17.00	17.14	533
Endrin Ketone	18.60	18.53	18.67	666

4,4'-DDT % breakdown (1): 8.04 Endrin % breakdown (1): 9.46

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJN Date Analyzed :05/30/10

Lab Sample ID (PIBLK): SEQ-CCB6 Time Analyzed :0851

EPA Sample No.(PEM): PEMJN Date Analyzed :05/30/10

Lab Sample ID (PEM): SEQ-PEM6 Time Analyzed :0949

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.98	15.91	16.05	282
4,4'-DDE	14.74	14.66	14.80	509
4,4'-DDT	16.65	16.57	16.71	11419
Endrin	15.72	15.65	15.79	9670
Endrin Aldehyde	16.91	16.83	16.97	549
Endrin Ketone	18.63	18.56	18.70	530

4,4'-DDT % breakdown (1): 6.48 Endrin % breakdown (1): 10.0

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKKE Date Analyzed :06/03/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :1304

EPA Sample No.(PEM): PEMKF Date Analyzed :06/03/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :1402

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.51	15.48	15.62	176
4,4'-DDE	14.21	14.19	14.32	231
4,4'-DDT	16.11	16.08	16.22	14250
Endrin	15.35	15.33	15.47	11651
Endrin Aldehyde	16.74	16.71	16.86	203
Endrin Ketone	18.27	18.24	18.38	246

4,4'-DDT % breakdown (1): 2.78 Endrin % breakdown (1): 3.71

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKKF Date Analyzed :06/03/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :1304

EPA Sample No.(PEM): PEMKF Date Analyzed :06/03/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :1402

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.70	15.67	15.81	136
4,4'-DDE	14.46	14.43	14.57	161
4,4'-DDT	16.36	16.33	16.47	12353
Endrin	15.43	15.40	15.54	9799
Endrin Aldehyde	16.61	16.59	16.73	160
Endrin Ketone	18.33	18.30	18.44	177

4,4'-DDT % breakdown (1): 2.35 Endrin % breakdown (1): 3.32

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKKG Date Analyzed :06/03/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :1953

EPA Sample No.(PEM): PEMKH Date Analyzed :06/03/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :2050

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.50	15.48	15.62	201
4,4'-DDE	14.21	14.19	14.32	228
4,4'-DDT	16.10	16.08	16.22	14020
Endrin	15.35	15.33	15.47	11365
Endrin Aldehyde	16.73	16.71	16.86	231
Endrin Ketone	18.27	18.24	18.38	268

4,4'-DDT % breakdown (1): 2.97 Endrin % breakdown (1): 4.21

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKKH Date Analyzed :06/03/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :1953

EPA Sample No.(PEM): PEMKH Date Analyzed :06/03/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :2050

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.70	15.67	15.81	135
4,4'-DDE	14.46	14.43	14.57	158
4,4'-DDT	16.36	16.33	16.47	12132
Endrin	15.43	15.40	15.54	9658
Endrin Aldehyde	16.61	16.59	16.73	165
Endrin Ketone	18.32	18.30	18.44	214

4,4'-DDT % breakdown (1): 2.36 Endrin % breakdown (1): 3.78

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

c. Analytical Sequence (Form VIII)

For all GC columns, all instruments, in chronological order by GC column and instrument

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 20.70 TCX: 8.08

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMHA	0E27012-PEM1	05/28/10	1749	20.70	8.08
02	INDC1HA	0E27012-CAL1	05/28/10	1818	20.70	8.09
03	INDC2HA	0E27012-CAL2	05/28/10	1847	20.70	8.08
04	INDC3HA	0E27012-CAL3	05/28/10	1916	20.70	8.09
05	INDC4HA	0E27012-CAL4	05/28/10	1945	20.70	8.08
06	INDC5HA	0E27012-CAL5	05/28/10	2014	20.70	8.08
07	TOXAPH3HA	0E27012-ARC1	05/28/10	2043	20.71	8.08
08	CHLORO3HA	0E27012-ARC2	05/28/10	2111	20.71	8.08
09	PIBLKJG	SEQ-CCB3	05/29/10	1530	20.70	8.08
10	INDC3JG	SEQ-CCV3	05/29/10	1559	20.70	8.09
11	PEMJG	SEQ-PEM3	05/29/10	1628	20.70	8.08
12	PBLKBD	0051719-BLK1	05/29/10	1657	20.70	8.08
13	PBDLCS	0051719-BS1	05/29/10	1726	20.70	8.08
14	SS53-0-1MS	0051719-MS1	05/29/10	1755	20.70	8.08
15	SS53-0-1MSD	0051719-MSD1	05/29/10	1824	20.68	8.08
16	SS55-00-01	1005129-01	05/29/10	1853	20.70	8.08
17	SB55-00-2.5-	1005129-02	05/29/10	1922	20.70	8.08
18	SS54-0-1	1005129-03	05/29/10	1951	20.70	8.09
19	SB54-4-5	1005129-04	05/29/10	2020	20.70	8.09
20	SS53-0-1	1005129-05	05/29/10	2049	20.70	8.08
21	SB53-7-8	1005129-06	05/29/10	2117	20.70	8.08
22	PIBLKJI	SEQ-CCB4	05/29/10	2215	20.71	8.08
23	INDC3JJ	SEQ-CCV4	05/29/10	2244	20.70	8.08
24	PEMJJ	SEQ-PEM4	05/29/10	2313	20.70	8.08
25	SS80-0-1	1005129-07	05/29/10	2342	20.70	8.08
26	SB80-3-4	1005129-08	05/30/10	0011	20.70	8.08
27	SS56-0-1	1005129-09	05/30/10	0040	20.70	8.08
28	SB56-3-4	1005129-10	05/30/10	0109	20.70	8.08
29	SS58-0-1	1005129-11	05/30/10	0137	20.70	8.08
30	SS52-0-1	1005129-12	05/30/10	0206	20.70	8.08
31	SS57-0-1	1005129-13	05/30/10	0235	20.70	8.08
32	SS60-00-01	1005129-14	05/30/10	0304	20.70	8.09

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:20.70 TCX:8.08
SURROGATE RT FROM CONTINUING CALIBRATION DCB:20.36 TCX:7.81

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	SS59-00-01	1005129-15	05/30/10	0333	20.70	8.08
02	SB59-9-10	1005129-16	05/30/10	0402	20.70	8.08
03	PIBLKJK	SEQ-CCB5	05/30/10	0500	20.70	8.08
04	INDC3JL	SEQ-CCV5	05/30/10	0528	20.70	8.09
05	PEMJL	SEQ-PEM5	05/30/10	0557	20.70	8.08
06	SS85-0-1	1005129-17	05/30/10	0626	20.70	8.09
07	SS89-0-1	1005129-18	05/30/10	0655	20.70	8.09
08	SB89-6.5-7.5	1005129-19	05/30/10	0724	20.70	8.08
09	SS78-0-1	1005129-20	05/30/10	0753	20.70	8.09
10	PIBLKJM	SEQ-CCB6	05/30/10	0851	20.70	8.09
11	INDC3JN	SEQ-CCV6	05/30/10	0920	20.70	8.08
12	PEMJN	SEQ-PEM6	05/30/10	0949	20.70	8.08
13	PIBLKKE	SEQ-CCB1	06/03/10	1304	20.36	7.81
14	INDC3KF	SEQ-CCV1	06/03/10	1333	20.36	7.80
15	PEMKF	SEQ-PEM1	06/03/10	1402	20.36	7.80
16	SS53-0-1DL	1005129-05RE	06/03/10	1728	20.36	7.80
17	SS80-0-1DL	1005129-07RE	06/03/10	1757	20.36	7.80
18	SS60-00-01DL	1005129-14RE	06/03/10	1826	20.36	7.81
19	SS89-0-1DL	1005129-18RE	06/03/10	1855	20.36	7.81
20	PIBLKKG	SEQ-CCB2	06/03/10	1953	20.36	7.81
21	INDC3KH	SEQ-CCV2	06/03/10	2021	20.36	7.80
22	PEMKH	SEQ-PEM2	06/03/10	2050	20.36	7.80
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 21.25 TCX: 7.89

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMHA	0E27012-PEM1	05/28/10	1749	21.25	7.89
02	INDC1HA	0E27012-CAL1	05/28/10	1818	21.25	7.89
03	INDC2HA	0E27012-CAL2	05/28/10	1847	21.25	7.89
04	INDC3HA	0E27012-CAL3	05/28/10	1916	21.25	7.89
05	INDC4HA	0E27012-CAL4	05/28/10	1945	21.25	7.89
06	INDC5HA	0E27012-CAL5	05/28/10	2014	21.25	7.89
07	TOXAPH3HA	0E27012-ARC1	05/28/10	2043	21.25	7.89
08	CHLORO3HA	0E27012-ARC2	05/28/10	2111	21.25	7.90
09	PIBLKJH	SEQ-CCB3	05/29/10	1530	21.25	7.90
10	INDC3JH	SEQ-CCV3	05/29/10	1559	21.25	7.90
11	PEMJH	SEQ-PEM3	05/29/10	1628	21.25	7.90
12	PBLKBD	0051719-BLK1	05/29/10	1657	21.25	7.89
13	PBDLCS	0051719-BS1	05/29/10	1726	21.25	7.89
14	SS53-0-1MS	0051719-MS1	05/29/10	1755	21.25	7.89
15	SS53-0-1MSD	0051719-MSD1	05/29/10	1824	21.21	7.89
16	SS55-00-01	1005129-01	05/29/10	1853	21.25	7.89
17	SB55-00-2.5-	1005129-02	05/29/10	1922	21.25	7.89
18	SS54-0-1	1005129-03	05/29/10	1951	21.25	7.90
19	SB54-4-5	1005129-04	05/29/10	2020	21.25	7.89
20	SS53-0-1	1005129-05	05/29/10	2049	21.25	7.89
21	SB53-7-8	1005129-06	05/29/10	2117	21.25	7.90
22	PIBLKJJ	SEQ-CCB4	05/29/10	2215	21.26	7.89
23	INDC3JJ	SEQ-CCV4	05/29/10	2244	21.25	7.89
24	PEMJJ	SEQ-PEM4	05/29/10	2313	21.25	7.90
25	SS80-0-1	1005129-07	05/29/10	2342	21.25	7.89
26	SB80-3-4	1005129-08	05/30/10	0011	21.25	7.90
27	SS56-0-1	1005129-09	05/30/10	0040	21.25	7.89
28	SB56-3-4	1005129-10	05/30/10	0109	21.25	7.89
29	SS58-0-1	1005129-11	05/30/10	0137	21.25	7.89
30	SS52-0-1	1005129-12	05/30/10	0206	21.25	7.89
31	SS57-0-1	1005129-13	05/30/10	0235	21.25	7.90
32	SS60-00-01	1005129-14	05/30/10	0304	21.25	7.90

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:21.25 TCX:7.89
SURROGATE RT FROM CONTINUING CALIBRATION DCB:20.92 TCX:7.64

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	SS59-00-01	1005129-15	05/30/10	0333	21.26	7.90
02	SB59-9-10	1005129-16	05/30/10	0402	21.25	7.89
03	PIBLKJL	SEQ-CCB5	05/30/10	0500	21.25	7.90
04	INDC3JL	SEQ-CCV5	05/30/10	0528	21.26	7.90
05	PEMJL	SEQ-PEM5	05/30/10	0557	21.26	7.90
06	SS85-0-1	1005129-17	05/30/10	0626	21.25	7.90
07	SS89-0-1	1005129-18	05/30/10	0655	21.25	7.90
08	SB89-6.5-7.5	1005129-19	05/30/10	0724	21.25	7.89
09	SS78-0-1	1005129-20	05/30/10	0753	21.25	7.89
10	PIBLKJN	SEQ-CCB6	05/30/10	0851	21.26	7.89
11	INDC3JN	SEQ-CCV6	05/30/10	0920	21.25	7.90
12	PEMJN	SEQ-PEM6	05/30/10	0949	21.26	7.90
13	PIBLKKF	SEQ-CCB1	06/03/10	1304	20.92	7.64
14	INDC3KF	SEQ-CCV1	06/03/10	1333	20.92	7.64
15	PEMKF	SEQ-PEM1	06/03/10	1402	20.92	7.64
16	SS53-0-1DL	1005129-05RE	06/03/10	1728	20.92	7.64
17	SS80-0-1DL	1005129-07RE	06/03/10	1757	20.92	7.63
18	SS60-00-01DL	1005129-14RE	06/03/10	1826	20.92	7.64
19	SS89-0-1DL	1005129-18RE	06/03/10	1855	20.92	7.64
20	PIBLKKH	SEQ-CCB2	06/03/10	1953	20.92	7.64
21	INDC3KH	SEQ-CCV2	06/03/10	2021	20.92	7.64
22	PEMKH	SEQ-PEM2	06/03/10	2050	20.91	7.63
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

d. Identification Summary for Single Component Analytes (Form X)

For all samples with positively identified single component analytes, in order by increasing Client Sample ID number.

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBDLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-BS1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.34	12.27	12.41	4.9	
	2	12.28	12.21	12.35	4.8	2.1
beta-BHC	1	10.66	10.59	10.73	4.7	
	2	10.70	10.63	10.77	5.5	15.7
alpha-BHC	1	9.60	9.53	9.67	5.5	
	2	9.55	9.48	9.62	5.8	5.3
delta-BHC	1	11.09	11.02	11.16	6.1	
	2	11.40	11.33	11.47	5.8	5.0
gamma-BHC (Lindane)	1	10.42	10.36	10.50	5.8	
	2	10.46	10.39	10.53	5.3	9.0
4,4'-DDD	1	15.81	15.75	15.89	15	
	2	15.97	15.91	16.05	15	0.0
4,4'-DDE	1	14.51	14.45	14.59	13	
	2	14.73	14.66	14.80	14	7.4
4,4'-DDT	1	16.42	16.35	16.49	14	
	2	16.64	16.57	16.71	14	0.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBDLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-BS1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	15.16	15.10	15.24	12	
	2	15.06	14.99	15.13	15	22.2
Endosulfan I	1	14.63	14.57	14.71	5.0	
	2	14.46	14.39	14.53	5.1	2.0
Endosulfan II	1	16.16	16.09	16.23	14	
	2	16.18	16.11	16.25	14	0.0
Endosulfan sulfate	1	18.00	17.93	18.07	13	
	2	17.49	17.42	17.56	13	0.0
Endrin	1	15.67	15.61	15.74	15	
	2	15.72	15.65	15.79	14	6.9
Endrin Aldehyde	1	17.06	17.00	17.14	5.7	
	2	16.90	16.83	16.97	7.5	27.3
Heptachlor	1	11.62	11.55	11.69	6.4	
	2	11.52	11.45	11.59	6.3	1.6
Heptachlor Epoxide	1	13.75	13.68	13.82	6.3	
	2	13.60	13.53	13.67	5.7	10.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBDLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-BS1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	17.44	17.37	17.52	15	
	2	18.09	18.03	18.17	13	14.3
Endrin Ketone	1	18.60	18.53	18.67	15	
	2	18.63	18.56	18.70	15	0.0
gamma-Chlordane	1	14.03	13.97	14.11	5.7	
	2	14.02	13.95	14.09	6.2	8.4
alpha-Chlordane	1	14.33	14.27	14.40	5.9	
	2	14.35	14.28	14.42	6.2	5.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBLKBD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-BLK1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
gamma-Chlordane	1	13.98	13.97	14.11	0.24	
	2	14.04	13.95	14.09	0.58	82.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB53-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-06 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
delta-BHC	1	11.12	11.02	11.16	3.0	
	2	11.41	11.33	11.47	0.35	158.2
Dieldrin	1	15.16	15.10	15.24	0.98	
	2	15.01	14.99	15.13	0.69	34.7
Endosulfan I	1	14.62	14.57	14.71	2.0	
	2	14.52	14.39	14.53	2.3	14.0
Endosulfan II	1	16.13	16.09	16.23	1.1	
	2	16.15	16.11	16.25	0.71	43.1
Endrin Aldehyde	1	17.10	17.00	17.14	1.6	
	2	16.91	16.83	16.97	1.3	20.7
Heptachlor	1	11.66	11.55	11.69	0.51	
	2	11.49	11.45	11.59	0.60	16.2
Methoxychlor	1	17.43	17.37	17.52	150	
	2	18.06	18.03	18.17	120	22.2
gamma-Chlordane	1	14.07	13.97	14.11	0.24	
	2	14.03	13.95	14.09	0.75	103.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB53-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-06 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
alpha-Chlordane	1	14.34	14.27	14.40	0.62	
	2	14.30	14.28	14.42	1.1	55.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB54-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-04 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDT	1	16.41	16.35	16.49	1.5	
	2	16.64	16.57	16.71	0.85	55.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB55-00-2.5-3

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-02 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Endosulfan sulfate	1	18.03	17.93	18.07	0.75	
	2	17.49	17.42	17.56	0.67	11.3
Heptachlor	1	11.63	11.55	11.69	0.25	
	2	11.50	11.45	11.59	0.38	41.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB59-9-10

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-16 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
gamma-BHC (Lindane)	1	10.43	10.36	10.50	0.41	
	2	10.43	10.39	10.53	5.7	173.2
4,4'-DDE	1	14.47	14.45	14.59	3.7	
	2	14.75	14.66	14.80	1.6	79.2
Dieldrin	1	15.16	15.10	15.24	2.3	
	2	15.01	14.99	15.13	1.2	62.8
Endosulfan I	1	14.62	14.57	14.71	3.0	
	2	14.42	14.39	14.53	1.3	79.1
Endrin	1	15.62	15.61	15.74	2.0	
	2	15.65	15.65	15.79	0.68	98.5
Endrin Aldehyde	1	17.09	17.00	17.14	0.62	
	2	16.95	16.83	16.97	0.52	17.5
Heptachlor	1	11.58	11.55	11.69	7.5	
	2	11.49	11.45	11.59	1.8	122.6
gamma-Chlordane	1	14.09	13.97	14.11	0.91	
	2	14.03	13.95	14.09	1.8	65.7

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB59-9-10

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-16 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
alpha-Chlordane	1	14.28	14.27	14.40	6.6	
	2	14.30	14.28	14.42	7.5	12.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB80-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-08 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	14.51	14.45	14.59	2.1	
	2	14.74	14.66	14.80	2.0	4.9
4,4'-DDT	1	16.42	16.35	16.49	3.4	
	2	16.64	16.57	16.71	2.9	15.9
Heptachlor	1	11.66	11.55	11.69	0.38	
	2	11.50	11.45	11.59	0.55	36.6
gamma-Chlordane	1	14.04	13.97	14.11	0.45	
	2	14.03	13.95	14.09	0.57	23.5
alpha-Chlordane	1	14.32	14.27	14.40	0.45	
	2	14.35	14.28	14.42	0.34	27.8
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB89-6.5-7.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-19 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	15.11	15.10	15.24	1.4	
	2	15.03	14.99	15.13	3.7	90.2
Endosulfan II	1	16.21	16.09	16.23	0.40	
	2	16.17	16.11	16.25	0.81	67.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS52-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-12 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Endosulfan sulfate	1	18.03	17.93	18.07	1.4	
	2	17.48	17.42	17.56	0.61	78.6
Heptachlor	1	11.66	11.55	11.69	0.35	
	2	11.50	11.45	11.59	0.26	29.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS53-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-05 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
delta-BHC	1	11.11	11.02	11.16	2.1	
	2	11.36	11.33	11.47	0.90	80.0
gamma-BHC (Lindane)	1	10.48	10.36	10.50	0.95	
	2	10.43	10.39	10.53	3.0	103.8
4,4'-DDD	1	15.84	15.75	15.89	2.0	
	2	15.95	15.91	16.05	6.4	104.8
Endosulfan I	1	14.62	14.57	14.71	1.2	
	2	14.41	14.39	14.53	5.8	131.4
Endosulfan sulfate	1	18.03	17.93	18.07	21	
	2	17.49	17.42	17.56	20	4.9
Endrin	1	15.62	15.61	15.74	5.4	
	2	15.75	15.65	15.79	3.5	42.7
Heptachlor	1	11.63	11.55	11.69	0.62	
	2	11.49	11.45	11.59	0.48	25.4
Endrin Ketone	1	18.66	18.53	18.67	43	
	2	18.57	18.56	18.70	5.4	155.4

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS53-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-05 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
gamma-Chlordane	1	14.01	13.97	14.11	1.1	
	2	14.05	13.95	14.09	3.5	104.3
alpha-Chlordane	1	14.36	14.27	14.40	3.8	
	2	14.31	14.28	14.42	0.68	139.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS53-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-05RE1 Date(s) Analyzed: 06/03/10 06/03/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Endosulfan sulfate	1	17.71	17.64	17.79	21	
	2	17.20	17.17	17.31	38	57.6
alpha-Chlordane	1	14.06	14.00	14.14	3.6	
	2	14.14	14.04	14.18	3.6	0.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS53-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-MS1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.34	12.27	12.41	9.1	
	2	12.28	12.21	12.35	10	9.4
beta-BHC	1	10.66	10.59	10.73	6.1	
	2	10.70	10.63	10.77	28	128.4
alpha-BHC	1	9.60	9.53	9.67	6.0	
	2	9.55	9.48	9.62	7.9	27.3
delta-BHC	1	11.11	11.02	11.16	12	
	2	11.40	11.33	11.47	12	0.0
gamma-BHC (Lindane)	1	10.43	10.36	10.50	6.3	
	2	10.45	10.39	10.53	20	104.2
4,4'-DDD	1	15.82	15.75	15.89	21	
	2	15.98	15.91	16.05	29	32.0
4,4'-DDE	1	14.52	14.45	14.59	22	
	2	14.74	14.66	14.80	21	4.6
4,4'-DDT	1	16.41	16.35	16.49	49	
	2	16.65	16.57	16.71	21	80.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS53-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-MS1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	15.17	15.10	15.24	17	
	2	15.07	14.99	15.13	20	16.2
Endosulfan I	1	14.63	14.57	14.71	11	
	2	14.46	14.39	14.53	9.1	18.9
Endosulfan II	1	16.16	16.09	16.23	33	
	2	16.18	16.11	16.25	22	40.0
Endosulfan sulfate	1	18.03	17.93	18.07	42	
	2	17.51	17.42	17.56	73	53.9
Endrin	1	15.68	15.61	15.74	21	
	2	15.72	15.65	15.79	24	13.3
Endrin Aldehyde	1	17.07	17.00	17.14	17	
	2	16.91	16.83	16.97	31	58.3
Heptachlor	1	11.62	11.55	11.69	7.6	
	2	11.52	11.45	11.59	10	27.3
Heptachlor Epoxide	1	13.75	13.68	13.82	10	
	2	13.60	13.53	13.67	9.5	5.1

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS53-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-MS1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	17.45	17.37	17.52	45	
	2	18.11	18.03	18.17	30	40.0
Endrin Ketone	1	18.61	18.53	18.67	15	
	2	18.64	18.56	18.70	23	42.1
gamma-Chlordane	1	14.04	13.97	14.11	8.5	
	2	14.03	13.95	14.09	16	61.2
alpha-Chlordane	1	14.34	14.27	14.40	16	
	2	14.35	14.28	14.42	12	28.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS53-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-MSD1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.34	12.27	12.41	6.5	
	2	12.28	12.21	12.35	5.1	24.1
beta-BHC	1	10.66	10.59	10.73	6.1	
	2	10.70	10.63	10.77	10	48.4
alpha-BHC	1	9.60	9.53	9.67	5.3	
	2	9.55	9.48	9.62	6.5	20.3
delta-BHC	1	11.10	11.02	11.16	7.3	
	2	11.40	11.33	11.47	7.0	4.2
gamma-BHC (Lindane)	1	10.43	10.36	10.50	6.2	
	2	10.46	10.39	10.53	8.1	26.6
4,4'-DDD	1	15.81	15.75	15.89	17	
	2	15.98	15.91	16.05	19	11.1
4,4'-DDE	1	14.51	14.45	14.59	16	
	2	14.73	14.66	14.80	16	0.0
4,4'-DDT	1	16.42	16.35	16.49	20	
	2	16.64	16.57	16.71	27	29.8

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS53-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-MSD1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	15.17	15.10	15.24	14	
	2	15.06	14.99	15.13	16	13.3
Endosulfan I	1	14.63	14.57	14.71	6.8	
	2	14.46	14.39	14.53	7.0	2.9
Endosulfan II	1	16.16	16.09	16.23	19	
	2	16.18	16.11	16.25	16	17.1
Endosulfan sulfate	1	18.02	17.93	18.07	39	
	2	17.49	17.42	17.56	34	13.7
Endrin	1	15.67	15.61	15.74	16	
	2	15.72	15.65	15.79	17	6.1
Endrin Aldehyde	1	17.07	17.00	17.14	9.8	
	2	16.90	16.83	16.97	18	59.0
Heptachlor	1	11.62	11.55	11.69	8.1	
	2	11.52	11.45	11.59	8.2	1.2
Heptachlor Epoxide	1	13.75	13.68	13.82	6.7	
	2	13.60	13.53	13.67	6.4	4.6

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS53-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 0051719-MSD1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	17.43	17.37	17.52	180	
	2	18.09	18.03	18.17	170	5.7
Endrin Ketone	1	18.60	18.53	18.67	17	
	2	18.63	18.56	18.70	27	45.4
gamma-Chlordane	1	14.04	13.97	14.11	9.3	
	2	14.02	13.95	14.09	7.5	21.4
alpha-Chlordane	1	14.34	14.27	14.40	12	
	2	14.35	14.28	14.42	7.5	46.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS54-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-03 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.70	10.59	10.73	0.48	
	2	10.68	10.63	10.77	1.0	70.3
gamma-BHC (Lindane)	1	10.43	10.36	10.50	1.8	
	2	10.43	10.39	10.53	2.2	20.0
4,4'-DDE	1	14.47	14.45	14.59	1.6	
	2	14.75	14.66	14.80	0.53	100.5
Dieldrin	1	15.16	15.10	15.24	0.88	
	2	15.02	14.99	15.13	0.46	62.7
Endosulfan I	1	14.63	14.57	14.71	1.1	
	2	14.41	14.39	14.53	1.3	16.7
Endosulfan sulfate	1	18.03	17.93	18.07	2.0	
	2	17.49	17.42	17.56	2.0	0.0
Heptachlor	1	11.58	11.55	11.69	0.85	
	2	11.50	11.45	11.59	0.19	126.9
gamma-Chlordane	1	14.09	13.97	14.11	0.36	
	2	14.07	13.95	14.09	1.8	133.3

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS54-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-03 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
alpha-Chlordane	1	14.30	14.27	14.40	3.0	
	2	14.31	14.28	14.42	0.82	114.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS55-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-01 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.39	12.27	12.41	0.32	
	2	12.31	12.21	12.35	0.27	16.9
Endosulfan sulfate	1	18.02	17.93	18.07	3.8	
	2	17.50	17.42	17.56	0.99	117.3
Methoxychlor	1	17.42	17.37	17.52	19	
	2	18.08	18.03	18.17	3.5	137.8
Endrin Ketone	1	18.66	18.53	18.67	2.4	
	2	18.56	18.56	18.70	1.0	82.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS56-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-09 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.70	10.59	10.73	1.1	
	2	10.67	10.63	10.77	1.6	37.0
delta-BHC	1	11.12	11.02	11.16	4.1	
	2	11.46	11.33	11.47	1.1	115.4
gamma-BHC (Lindane)	1	10.48	10.36	10.50	1.6	
	2	10.43	10.39	10.53	4.8	100.0
4,4'-DDE	1	14.47	14.45	14.59	3.0	
	2	14.74	14.66	14.80	1.1	92.7
Dieldrin	1	15.16	15.10	15.24	1.4	
	2	15.01	14.99	15.13	1.6	13.3
Endosulfan I	1	14.62	14.57	14.71	1.6	
	2	14.52	14.39	14.53	2.2	31.6
Endosulfan sulfate	1	18.03	17.93	18.07	1.5	
	2	17.51	17.42	17.56	1.4	6.9
Endrin Aldehyde	1	17.02	17.00	17.14	0.66	
	2	16.91	16.83	16.97	1.9	96.9

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS56-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-09 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Heptachlor	1	11.67	11.55	11.69	0.39	
	2	11.58	11.45	11.59	0.67	52.8
gamma-Chlordane	1	14.08	13.97	14.11	0.65	
	2	14.03	13.95	14.09	0.79	19.4
alpha-Chlordane	1	14.34	14.27	14.40	1.8	
	2	14.31	14.28	14.42	1.7	5.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS57-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-13 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Endosulfan sulfate	1	18.03	17.93	18.07	11	
	2	17.48	17.42	17.56	4.4	85.7
Heptachlor	1	11.66	11.55	11.69	0.47	
	2	11.50	11.45	11.59	0.65	32.1
Endrin Ketone	1	18.66	18.53	18.67	12	
	2	18.56	18.56	18.70	1.1	166.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS58-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-11 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
delta-BHC	1	11.12	11.02	11.16	0.25	
	2	11.42	11.33	11.47	0.22	12.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS59-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-15 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.41	12.27	12.41	0.24	
	2	12.21	12.21	12.35	0.40	50.0
delta-BHC	1	11.06	11.02	11.16	1.5	
	2	11.37	11.33	11.47	0.54	94.1
Endosulfan sulfate	1	18.00	17.93	18.07	4.1	
	2	17.51	17.42	17.56	3.2	24.6
Heptachlor	1	11.66	11.55	11.69	0.25	
	2	11.50	11.45	11.59	0.57	78.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS60-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-14 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
alpha-BHC	1	9.54	9.53	9.67	0.57	
	2	9.60	9.48	9.62	0.43	28.0
4,4'-DDT	1	16.42	16.35	16.49	0.82	
	2	16.64	16.57	16.71	0.90	9.3
Dieldrin	1	15.23	15.10	15.24	0.49	
	2	15.11	14.99	15.13	0.84	52.6
Endosulfan I	1	14.61	14.57	14.71	1.4	
	2	14.44	14.39	14.53	0.21	147.8
Endosulfan sulfate	1	18.00	17.93	18.07	67	
	2	17.51	17.42	17.56	5.1	171.7
Endrin Aldehyde	1	17.13	17.00	17.14	1.7	
	2	16.95	16.83	16.97	1.1	42.8
Heptachlor	1	11.67	11.55	11.69	0.23	
	2	11.50	11.45	11.59	0.40	54.0
Heptachlor Epoxide	1	13.72	13.68	13.82	0.20	
	2	13.67	13.53	13.67	0.38	62.1

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS60-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-14 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	17.51	17.37	17.52	24	
	2	18.15	18.03	18.17	52	73.7
Endrin Ketone	1	18.64	18.53	18.67	13	
	2	18.56	18.56	18.70	13	0.0
alpha-Chlordane	1	14.39	14.27	14.40	0.57	
	2	14.31	14.28	14.42	0.22	88.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS78-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-20 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	14.52	14.45	14.59	4.0	
	2	14.74	14.66	14.80	4.1	2.5
4,4'-DDT	1	16.42	16.35	16.49	1.4	
	2	16.65	16.57	16.71	3.1	75.6
Endrin Aldehyde	1	17.11	17.00	17.14	0.42	
	2	16.89	16.83	16.97	1.2	96.3
Heptachlor	1	11.66	11.55	11.69	1.1	
	2	11.50	11.45	11.59	0.46	82.0
alpha-Chlordane	1	14.30	14.27	14.40	2.9	
	2	14.35	14.28	14.42	0.47	144.2
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS80-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-07 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.27	12.27	12.41	1.4	
	2	12.26	12.21	12.35	1.6	13.3
delta-BHC	1	11.06	11.02	11.16	1.8	
	2	11.44	11.33	11.47	50	186.1
4,4'-DDD	1	15.81	15.75	15.89	2.3	
	2	15.95	15.91	16.05	2.5	8.3
4,4'-DDE	1	14.51	14.45	14.59	15	
	2	14.73	14.66	14.80	11	30.8
4,4'-DDT	1	16.42	16.35	16.49	85	
	2	16.64	16.57	16.71	92	7.9
Dieldrin	1	15.11	15.10	15.24	60	
	2	15.01	14.99	15.13	1.5	190.2
Endosulfan I	1	14.64	14.57	14.71	0.76	
	2	14.53	14.39	14.53	2.5	106.7
Endosulfan II	1	16.13	16.09	16.23	5.1	
	2	16.17	16.11	16.25	22	124.7

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS80-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-07 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Endrin	1	15.65	15.61	15.74	13	
	2	15.72	15.65	15.79	0.85	175.4
Endrin Ketone	1	18.66	18.53	18.67	2.5	
	2	18.63	18.56	18.70	0.62	120.5
gamma-Chlordane	1	14.08	13.97	14.11	140	
	2	14.02	13.95	14.09	11	170.9
alpha-Chlordane	1	14.34	14.27	14.40	11	
	2	14.35	14.28	14.42	6.3	54.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS80-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-07RE1 Date(s) Analyzed: 06/03/10 06/03/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	14.21	14.19	14.32	14	
	2	14.46	14.43	14.57	10	33.3
4,4'-DDT	1	16.11	16.08	16.22	81	
	2	16.36	16.33	16.47	86	6.0
Endosulfan II	1	15.90	15.81	15.95	26	
	2	15.89	15.86	16.00	25	3.9
Endrin	1	15.36	15.33	15.47	11	
	2	15.50	15.40	15.54	15	30.8
gamma-Chlordane	1	13.78	13.70	13.84	130	
	2	13.73	13.71	13.85	8.1	176.5
alpha-Chlordane	1	14.01	14.00	14.14	11	
	2	14.06	14.04	14.18	6.2	55.8
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS85-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-17 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Heptachlor	1	11.63	11.55	11.69	0.22	
	2	11.50	11.45	11.59	0.34	42.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS89-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-18 Date(s) Analyzed: 05/30/10 05/30/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.70	10.59	10.73	1.7	
	2	10.72	10.63	10.77	3.2	61.2
4,4'-DDT	1	16.42	16.35	16.49	6.4	
	2	16.62	16.57	16.71	2.5	87.6
Dieldrin	1	15.11	15.10	15.24	34	
	2	15.01	14.99	15.13	2.0	177.8
Endosulfan II	1	16.21	16.09	16.23	16	
	2	16.17	16.11	16.25	17	6.1
Endrin	1	15.65	15.61	15.74	3.2	
	2	15.73	15.65	15.79	0.40	155.6
Methoxychlor	1	17.42	17.37	17.52	2.6	
	2	18.11	18.03	18.17	2.6	0.0
gamma-Chlordane	1	14.08	13.97	14.11	45	
	2	14.06	13.95	14.09	1.3	188.8
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS89-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab Sample ID: 1005129-18RE1 Date(s) Analyzed: 06/03/10 06/03/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	14.26	14.19	14.32	2.2	
	2	14.55	14.43	14.57	3.4	42.8
4,4'-DDT	1	16.16	16.08	16.22	3.1	
	2	16.34	16.33	16.47	3.8	20.3
Dieldrin	1	14.95	14.82	14.96	2.2	
	2	14.86	14.75	14.89	3.4	42.8
Endosulfan I	1	14.35	14.29	14.44	1.6	
	2	14.25	14.15	14.29	2.3	35.9
Endosulfan II	1	15.90	15.81	15.95	19	
	2	15.89	15.86	16.00	20	5.1
Endrin	1	15.41	15.33	15.47	4.4	
	2	15.50	15.40	15.54	4.4	0.0
	1					
	2					
	1					
	2					

FORM X PEST-1

e. Identification Summary for Multicomponent Analytes (Form X) – if applicable

For all samples with positively identified multicomponent analytes, in order by increasing Client Sample ID number.

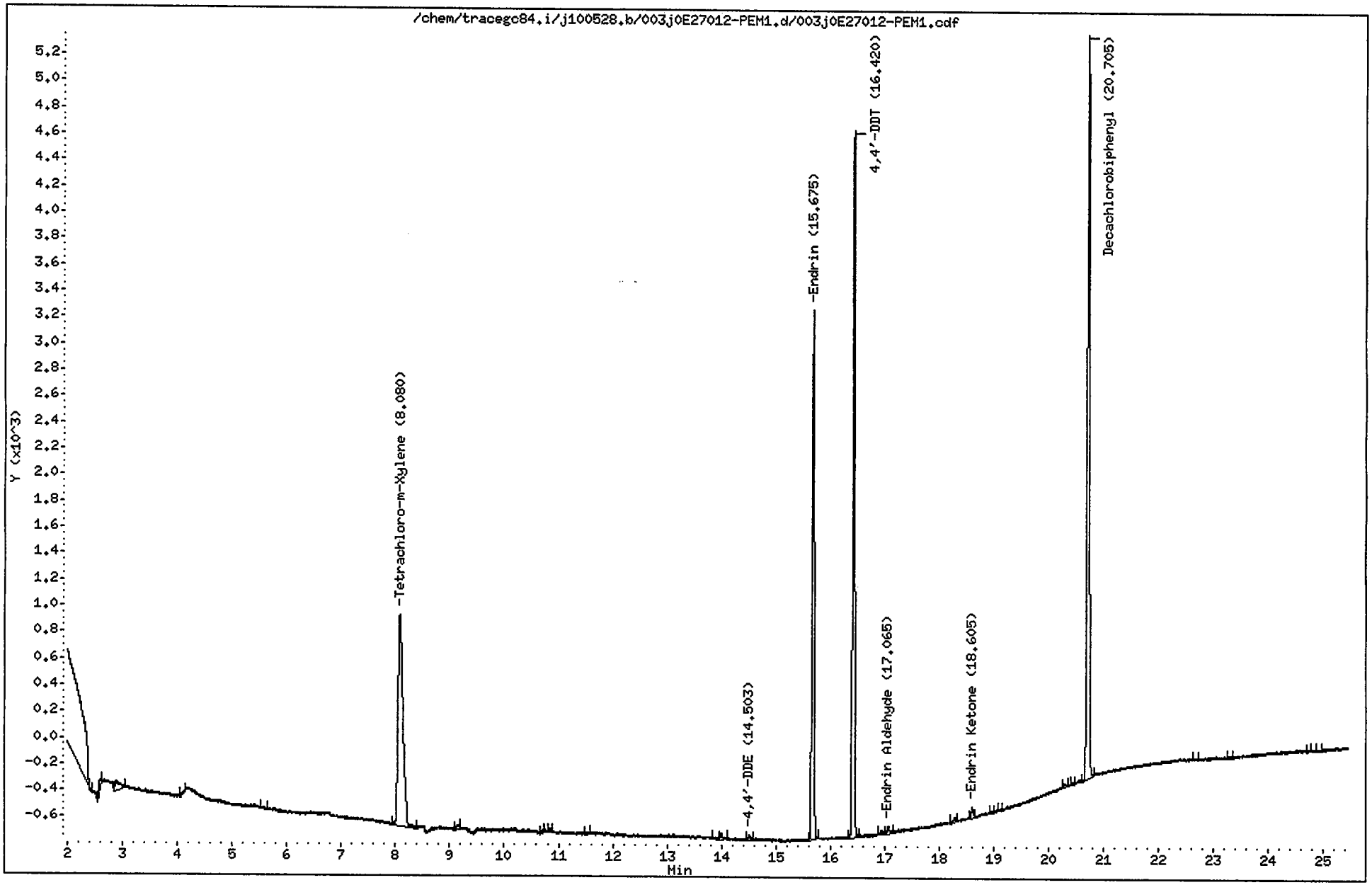
f. Chromatograms and Data System Printouts

For all methods, standards packages shall include
The following:

- Performance evaluation mixtures (8081 only)
- Initial Calibration Standards
- Second Source Initial Calibration Verifications (if required by client)
- Continuing Calibration Verification Standards
- The quantitation report must include the Client Sample ID number.
- The chromatograms shall include the following: Client Sample ID number for the standard, labeled standard peaks, volume injected, for each standard, date and time of injection, GC column identifier, and GC Instrument identifier

Data File: /chem/tracegc84.i/j100528.b/003j0E27012-PEM1.d
Date : 28-MAY-2010 17:49
Client ID: PEMHA
Sample Info: 0E27012-PEM1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-PEM1 Client Smp Id : PEMHA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 28-MAY-2010 17:49 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : PEMHA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

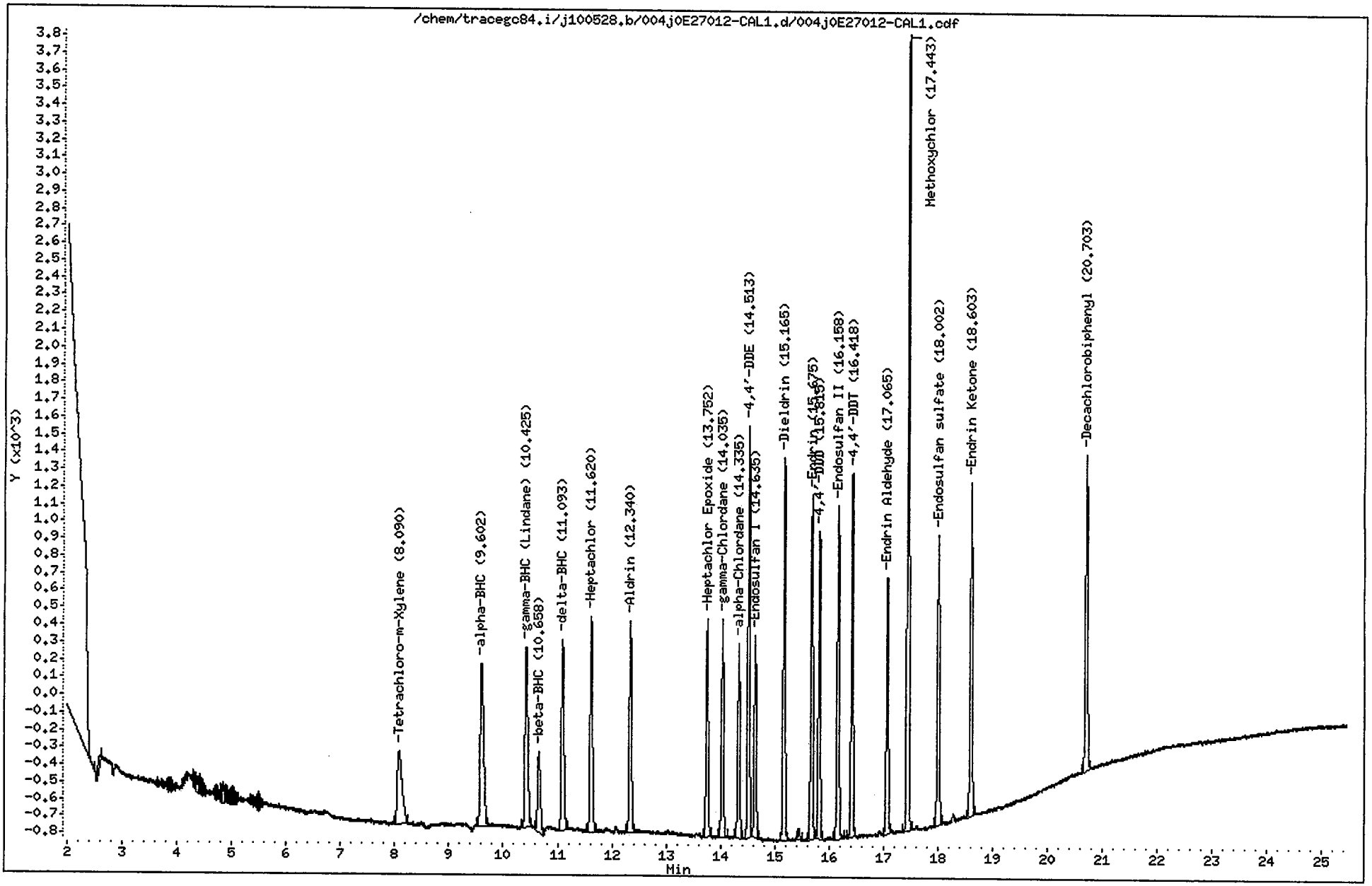
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.11			65								
0.33			59								
1.05			137								
1.31			67								
1.36			100								
1.55			63736								
2.60			274								
2.90			403								
4.13			50								
5.53			93								
8.08	8.01	8.15	10252	522758	Tetrachloro-m-Xylene	0.019611	0.019611		99.0	43 - 135	
9.13			89								
10.70			75								
10.85			89								
11.50			43								
13.86			56								
13.99			161								
14.50	14.45	14.59	135	523741	4,4'-DDE	0.000257	0.000257	0.020000			J
15.68	15.61	15.75	10368	463071	Endrin	0.022390	0.022390	0.020000			
16.42	16.35	16.49	13272	454781	4,4'-DDT	0.029183	0.029183	0.020000			
16.94			119								
17.06	17.00	17.14	184	348470	Endrin Aldehyde	0.000528	0.000528	0.020000			J
18.28			112								
18.60	18.53	18.67	230	457258	Endrin Ketone	0.000504	0.000504	0.020000			J
18.97			61								
19.13			49								
20.30			63								
20.46			58								
20.70	20.63	20.77	15710	408350	Decachlorobiphenyl	0.038473	0.038473		97.2	43 - 144	
22.67			44								
23.25			56								
24.69			43								
24.89			42								

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/004j0E27012-CAL1.d
Date : 28-MAY-2010 18:18
Client ID: INDC1HA
Sample Info: 0E27012-CAL1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL1 Client Smp Id : INDC1HA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 28-MAY-2010 18:18 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC1HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.57			247819					
2.59			171					
4.35			169					
4.84			233					
4.99			134					
8.09	8.01	8.15	2689	522758	Tetrachloro-m-Xylene	0.005000	537800	
9.60	9.53	9.67	3994	775960	alpha-BHC	0.005000	798600	
10.42	10.36	10.50	3775	729192	gamma-BHC (Lindane)	0.005000	754800	
10.66	10.59	10.73	1672	300532	beta-BHC	0.005000	334400	
11.09	11.02	11.16	3527	689518	delta-BHC	0.005000	705200	
11.62	11.55	11.69	3800	695465	Heptachlor	0.005000	759800	
12.34	12.27	12.41	3446	636570	Aldrin	0.005000	689000	
13.75	13.68	13.82	3254	593700	Heptachlor Epoxide	0.005000	650600	
14.04	13.97	14.11	3261	594875	gamma-Chlordane	0.005000	652000	
14.34	14.27	14.41	2846	516712	alpha-Chlordane	0.005000	569000	
14.51	14.45	14.59	5739	523741	4,4'-DDE	0.010000	573800	
14.64	14.57	14.71	2972	548162	Endosulfan I	0.005000	594200	
15.16	15.10	15.24	5623	515556	Dieldrin	0.010000	562300	
15.44			156					
15.68	15.61	15.75	5113	463071	Endrin	0.010000	511200	
15.82	15.74	15.88	4223	393458	4,4'-DDD	0.010000	422300	
16.16	16.09	16.23	4967	450326	Endosulfan II	0.010000	496600	
16.42	16.35	16.49	5039	454781	4,4'-DDT	0.010000	503900	
17.06	17.00	17.14	3776	348470	Endrin Aldehyde	0.010000	377500	
17.44	17.37	17.51	11132	194359	Methoxychlor	0.050000	222640	
18.00	17.93	18.07	4327	392055	Endosulfan sulfate	0.010000	432700	
18.60	18.53	18.67	4972	457258	Endrin Ketone	0.010000	497200	
20.70	20.63	20.77	4821	408350	Decachlorobiphenyl	0.010000	482100	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/005j0E27012-CAL2.d

Date : 28-MAY-2010 18:47

Client ID: INDC2HA

Sample Info: 0E27012-CAL2

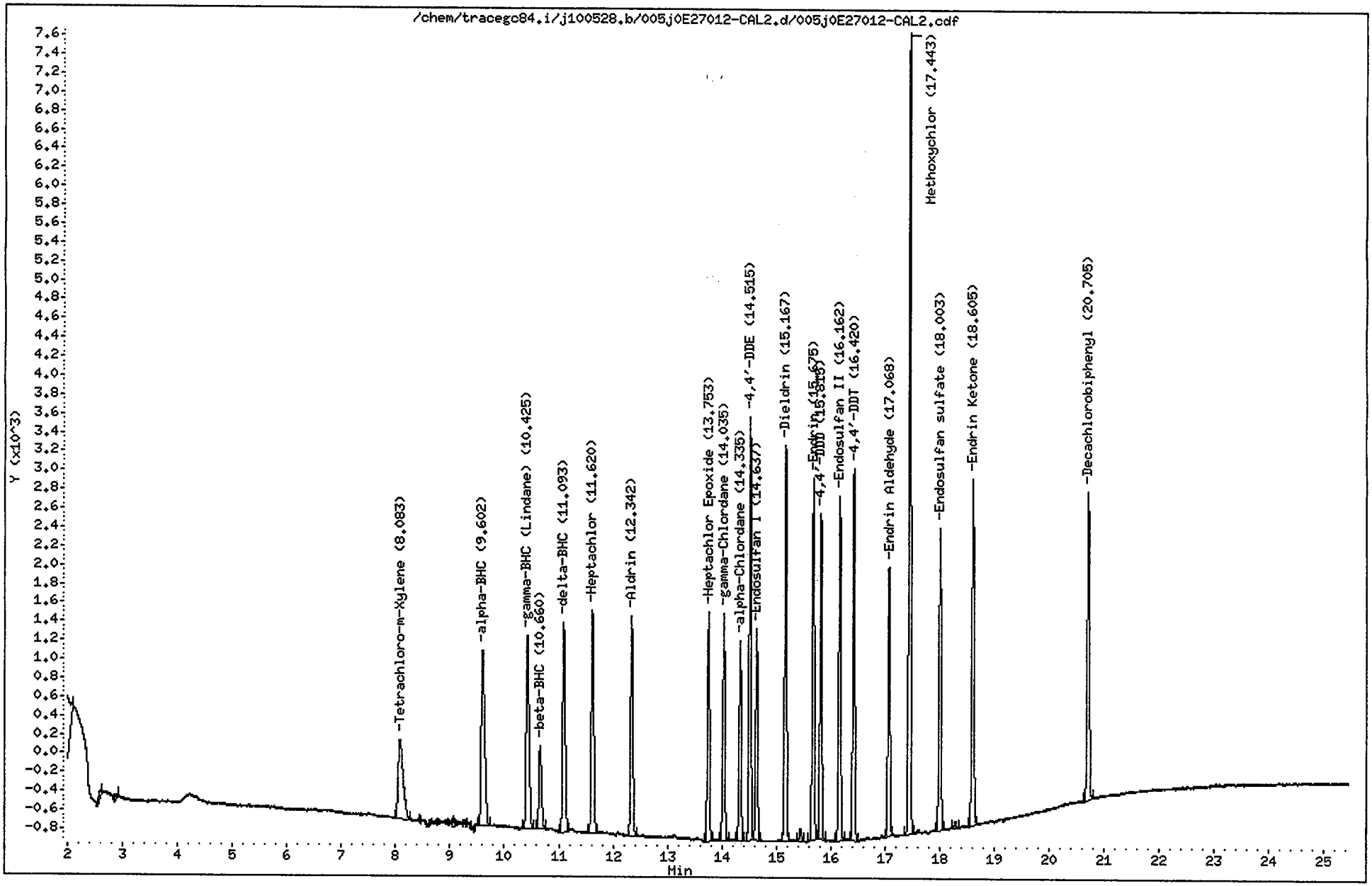
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL2 Client Smp Id : INDC2HA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 28-MAY-2010 18:47 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC2HA

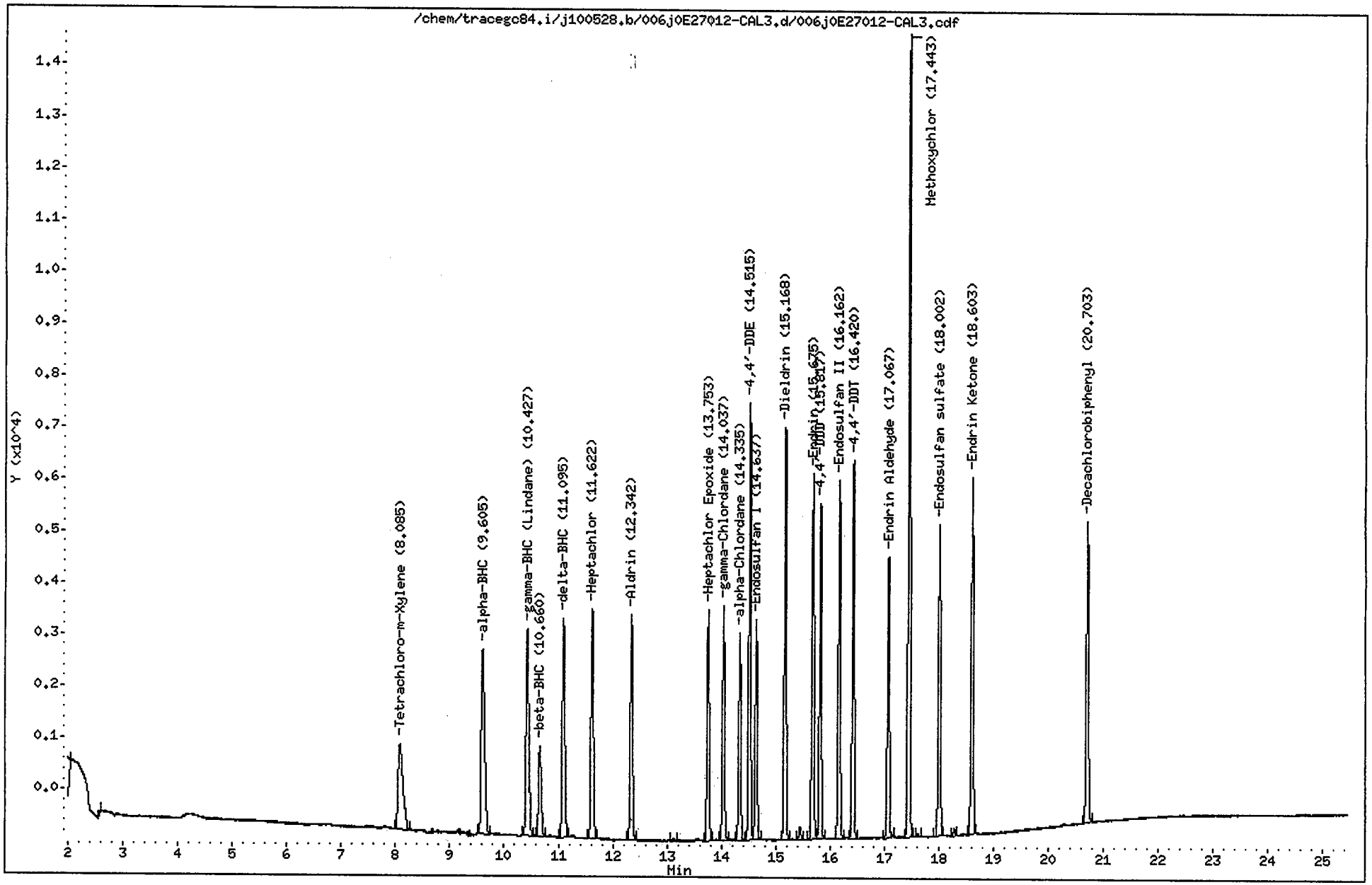
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.81			199					
0.93			168					
1.03			181					
1.44			179					
1.55			31882					
2.60			253					
2.87			126					
8.08	8.01	8.15	5457	522758	Tetrachloro-m-Xylene	0.010000	545600	
9.06			157					
9.60	9.53	9.67	7926	775960	alpha-BHC	0.010000	792600	
10.42	10.36	10.50	7455	729192	gamma-BHC (Lindane)	0.010000	745400	
10.66	10.59	10.73	2974	300532	beta-BHC	0.010000	297400	
11.09	11.02	11.16	7074	689518	delta-BHC	0.010000	707400	
11.62	11.55	11.69	7311	695465	Heptachlor	0.010000	731000	
12.34	12.27	12.41	6679	636570	Aldrin	0.010000	667800	
13.75	13.68	13.82	6330	593700	Heptachlor Epoxide	0.010000	633000	
14.04	13.97	14.11	6341	594875	gamma-Chlordane	0.010000	634000	
14.34	14.27	14.41	5427	516712	alpha-Chlordane	0.010000	542600	
14.52	14.45	14.59	10936	523741	4,4'-DDE	0.020000	546750	
14.64	14.57	14.71	5709	548162	Endosulfan I	0.010000	570900	
15.17	15.10	15.24	10763	515556	Dieldrin	0.020000	538100	
15.45			319					
15.68	15.61	15.75	9723	463071	Endrin	0.020000	486100	
15.82	15.74	15.88	8211	393458	4,4'-DDD	0.020000	410500	
16.16	16.09	16.23	9399	450326	Endosulfan II	0.020000	469900	
16.42	16.35	16.49	9582	454781	4,4'-DDT	0.020000	479100	
17.07	17.00	17.14	7281	348470	Endrin Aldehyde	0.020000	364050	
17.44	17.37	17.51	20823	194359	Methoxychlor	0.100000	208230	
18.00	17.93	18.07	8331	392055	Endosulfan sulfate	0.020000	416550	
18.29			176					
18.60	18.53	18.67	9658	457258	Endrin Ketone	0.020000	482900	
20.70	20.63	20.77	8934	408350	Decachlorobiphenyl	0.020000	446650	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/006j0E27012-CAL3.d
Date : 28-MAY-2010 19:16
Client ID: INDC3HA
Sample Info: 0E27012-CAL3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

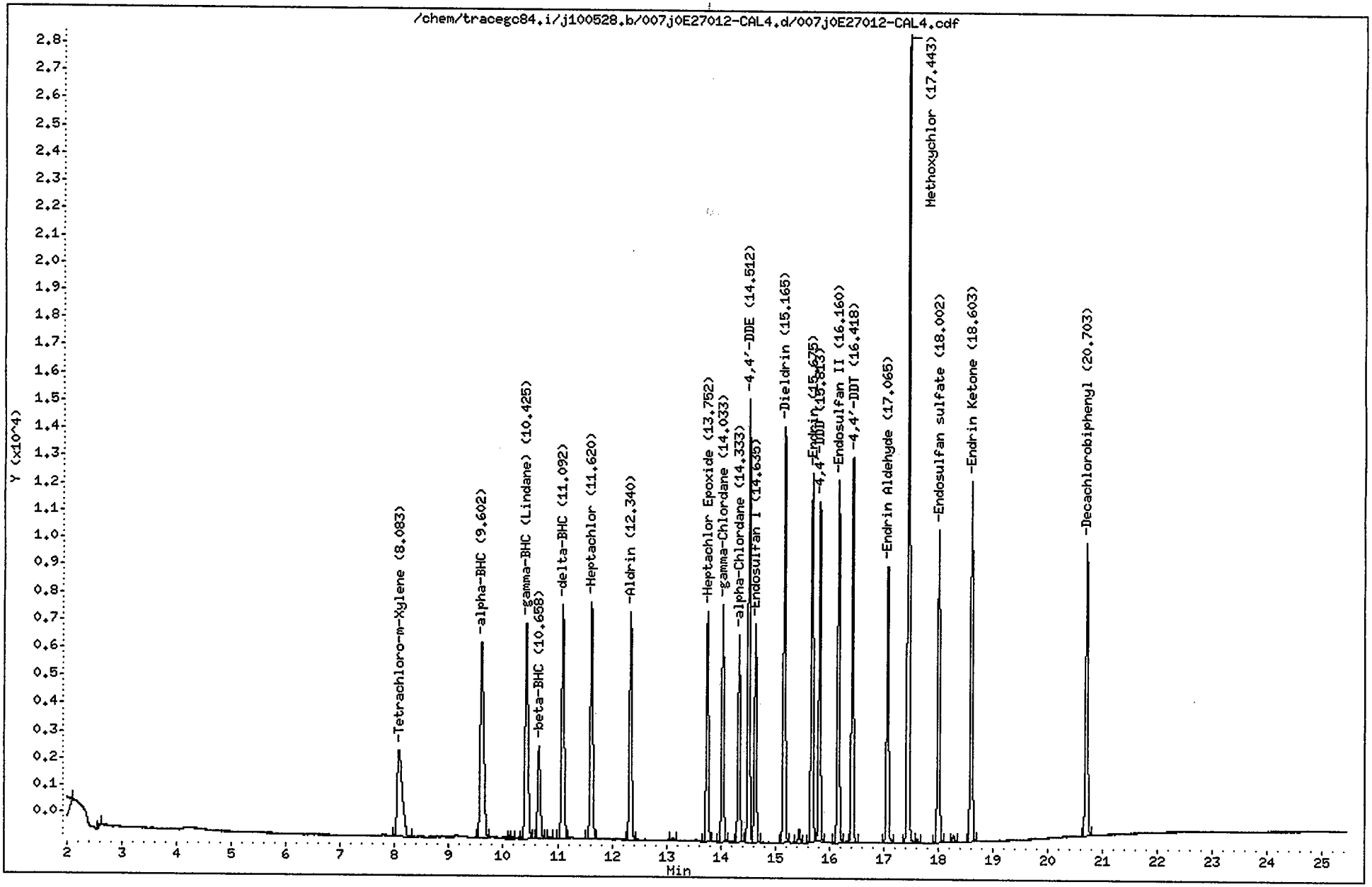
Lab Smp Id : 0E27012-CAL3 Client Smp Id : INDC3HA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 28-MAY-2010 19:16 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC3HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56			33990					
2.59			125					
8.08	8.01	8.15	10365	522758	Tetrachloro-m-Xylene	0.020000	518200	
9.60	9.53	9.67	15388	775960	alpha-BHC	0.020000	769400	
10.43	10.36	10.50	14446	729192	gamma-BHC (Lindane)	0.020000	722300	
10.66	10.59	10.73	5933	300532	beta-BHC	0.020000	296600	
11.10	11.02	11.16	13673	689518	delta-BHC	0.020000	683650	
11.62	11.55	11.69	13777	695465	Heptachlor	0.020000	688850	
12.34	12.27	12.41	12658	636570	Aldrin	0.020000	632900	
13.12			154					
13.75	13.68	13.82	11837	593700	Heptachlor Epoxide	0.020000	591800	
14.04	13.97	14.11	11766	594875	gamma-Chlordane	0.020000	588300	
14.34	14.27	14.41	10311	516712	alpha-Chlordane	0.020000	515550	
14.52	14.45	14.59	20700	523741	4,4'-DDE	0.040000	517475	
14.64	14.57	14.71	11116	548162	Endosulfan I	0.020000	555750	
15.17	15.10	15.24	20326	515556	Dieldrin	0.040000	508150	
15.45			603					
15.68	15.61	15.75	18450	463071	Endrin	0.040000	461225	
15.82	15.74	15.88	15762	393458	4,4'-DDD	0.040000	394025	
16.16	16.09	16.23	17852	450326	Endosulfan II	0.040000	446300	
16.42	16.35	16.49	17876	454781	4,4'-DDT	0.040000	446900	
17.07	17.00	17.14	14218	348470	Endrin Aldehyde	0.040000	355425	
17.44	17.37	17.51	38110	194359	Methoxychlor	0.200000	190545	
17.62			164					
18.00	17.93	18.07	15567	392055	Endosulfan sulfate	0.040000	389175	
18.29			330					
18.60	18.53	18.67	18130	457258	Endrin Ketone	0.040000	453250	
20.70	20.63	20.77	16121	408350	Decachlorobiphenyl	0.040000	403000	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/007j0E27012-CAL4.d
Date : 28-MAY-2010 19:45
Client ID: INDC4HA
Sample Info: 0E27012-CAL4
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

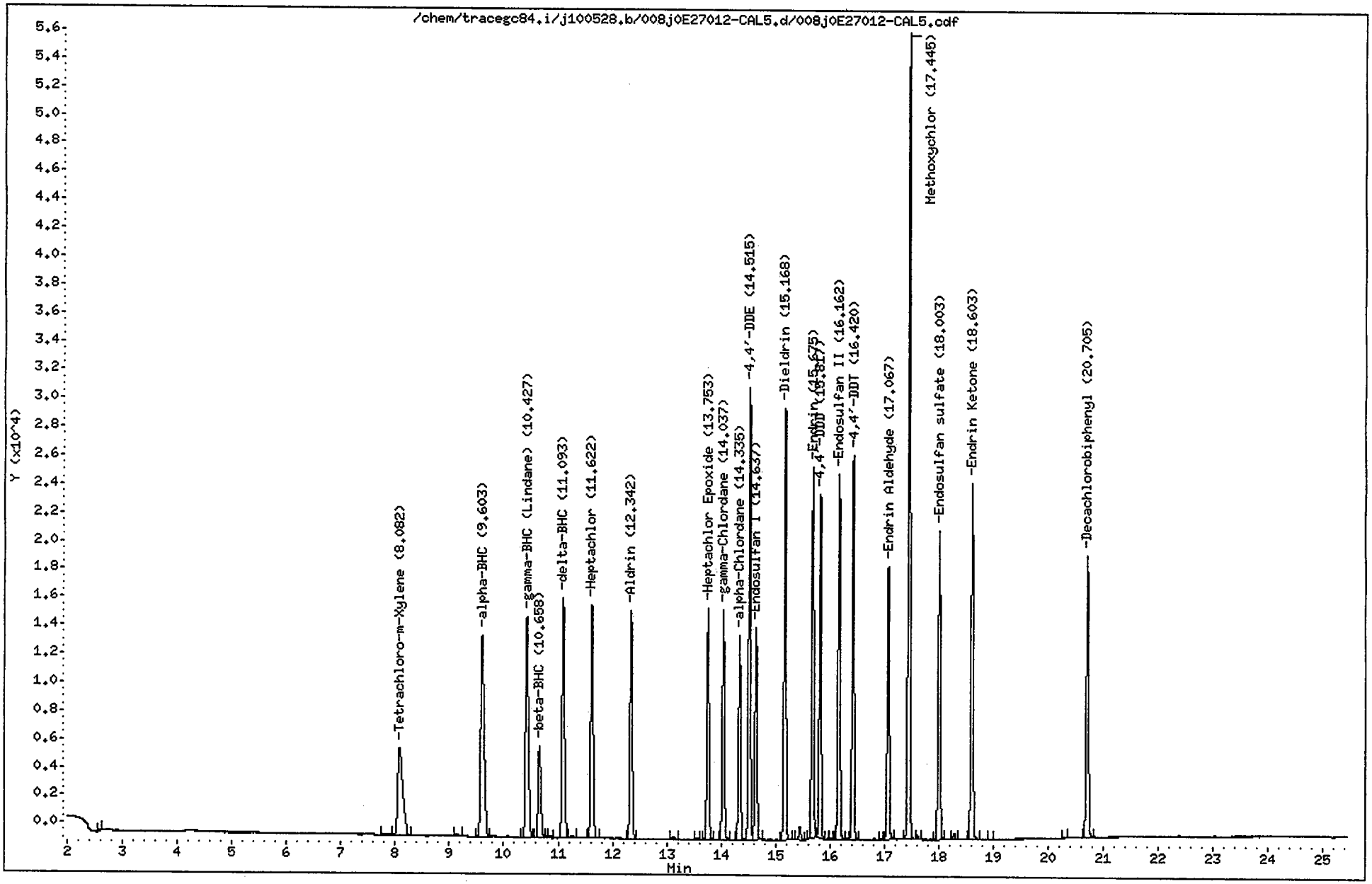
Lab Smp Id : 0E27012-CAL4 Client Smp Id : INDC4HA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 28-MAY-2010 19:45 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC4HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			32197					
2.61			220					
8.08	8.01	8.15	20531	522758	Tetrachloro-m-Xylene	0.040000	513275	
9.60	9.53	9.67	30485	775960	alpha-BHC	0.040000	762100	
10.11			174					
10.15			201					
10.34			121					
10.42	10.36	10.50	28750	729192	gamma-BHC (Lindane)	0.040000	718750	
10.66	10.59	10.73	11645	300532	beta-BHC	0.040000	291100	
10.85			124					
11.09	11.02	11.16	27123	689518	delta-BHC	0.040000	678075	
11.62	11.55	11.69	26443	695465	Heptachlor	0.040000	661075	
12.34	12.27	12.41	24318	636570	Aldrin	0.040000	607950	
13.12			296					
13.75	13.68	13.82	22398	593700	Heptachlor Epoxide	0.040000	559950	
14.03	13.97	14.11	22447	594875	gamma-Chlordane	0.040000	561150	
14.33	14.27	14.41	19587	516712	alpha-Chlordane	0.040000	489675	
14.51	14.45	14.59	39739	523741	4,4'-DDE	0.080000	496737	
14.64	14.57	14.71	20858	548162	Endosulfan I	0.040000	521425	
15.16	15.10	15.24	39182	515556	Dieldrin	0.080000	489763	
15.45			1192					
15.68	15.61	15.75	34803	463071	Endrin	0.080000	435025	
15.81	15.74	15.88	29940	393458	4,4'-DDD	0.080000	374237	
16.16	16.09	16.23	34119	450326	Endosulfan II	0.080000	426475	
16.32			140					
16.42	16.35	16.49	34226	454781	4,4'-DDT	0.080000	427813	
17.06	17.00	17.14	26427	348470	Endrin Aldehyde	0.080000	330325	
17.44	17.37	17.51	71762	194359	Methoxychlor	0.400000	179403	
17.62			370					
18.00	17.93	18.07	29487	392055	Endosulfan sulfate	0.080000	368575	
18.28			669					
18.60	18.53	18.67	34688	457258	Endrin Ketone	0.080000	433600	
20.70	20.63	20.77	29546	408350	Decachlorobiphenyl	0.080000	369313	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/008j0E27012-CAL5.d
Date : 28-MAY-2010 20:14
Client ID: INDC5HA
Sample Info: 0E27012-CAL5
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL5 Client Smp Id : INDC5HA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 28-MAY-2010 20:14 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC5HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			3249					
2.61			128					
7.82			681					
8.08	8.01	8.15	39913	522758	Tetrachloro-m-Xylene	0.080000	498913	
9.14			506					
9.60	9.53	9.67	60568	775960	alpha-BHC	0.080000	757100	
10.43	10.36	10.50	56377	729192	gamma-BHC (Lindane)	0.080000	704713	
10.66	10.59	10.73	22653	300532	beta-BHC	0.080000	283163	
10.86			351					
11.09	11.02	11.16	53861	689518	delta-BHC	0.080000	673263	
11.26			475					
11.62	11.55	11.69	50929	695465	Heptachlor	0.080000	636600	
12.34	12.27	12.41	46817	636570	Aldrin	0.080000	585200	
13.12			558					
13.55			280					
13.75	13.68	13.82	42653	593700	Heptachlor Epoxide	0.080000	533150	
14.04	13.97	14.11	43114	594875	gamma-Chlordane	0.080000	538925	
14.34	14.27	14.41	37339	516712	alpha-Chlordane	0.080000	466737	
14.52	14.45	14.59	77431	523741	4,4'-DDE	0.160000	483944	
14.64	14.57	14.71	39883	548162	Endosulfan I	0.080000	498537	
15.17	15.10	15.24	76716	515556	Dieldrin	0.160000	479469	
15.45			2365					
15.68	15.61	15.75	67490	463071	Endrin	0.160000	421806	
15.82	15.74	15.88	58597	393458	4,4'-DDD	0.160000	366225	
16.01			121					
16.16	16.09	16.23	65978	450326	Endosulfan II	0.160000	412356	
16.32			394					
16.42	16.35	16.49	66592	454781	4,4'-DDT	0.160000	416194	
16.94			123					
17.07	17.00	17.14	50408	348470	Endrin Aldehyde	0.160000	315050	
17.44	17.37	17.51	136783	194359	Methoxychlor	0.800000	170977	
17.61			647					
18.00	17.93	18.07	56525	392055	Endosulfan sulfate	0.160000	353275	
18.28			1187					
18.60	18.53	18.67	67095	457258	Endrin Ketone	0.160000	419337	
18.96			137					
20.30			252					
20.70	20.63	20.77	54511	408350	Decachlorobiphenyl	0.160000	340687	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/009j0E27012-ARC1.d

Date : 28-MAY-2010 20:43

Client ID: TOXAPH3HA

Sample Info: 0E27012-ARC1

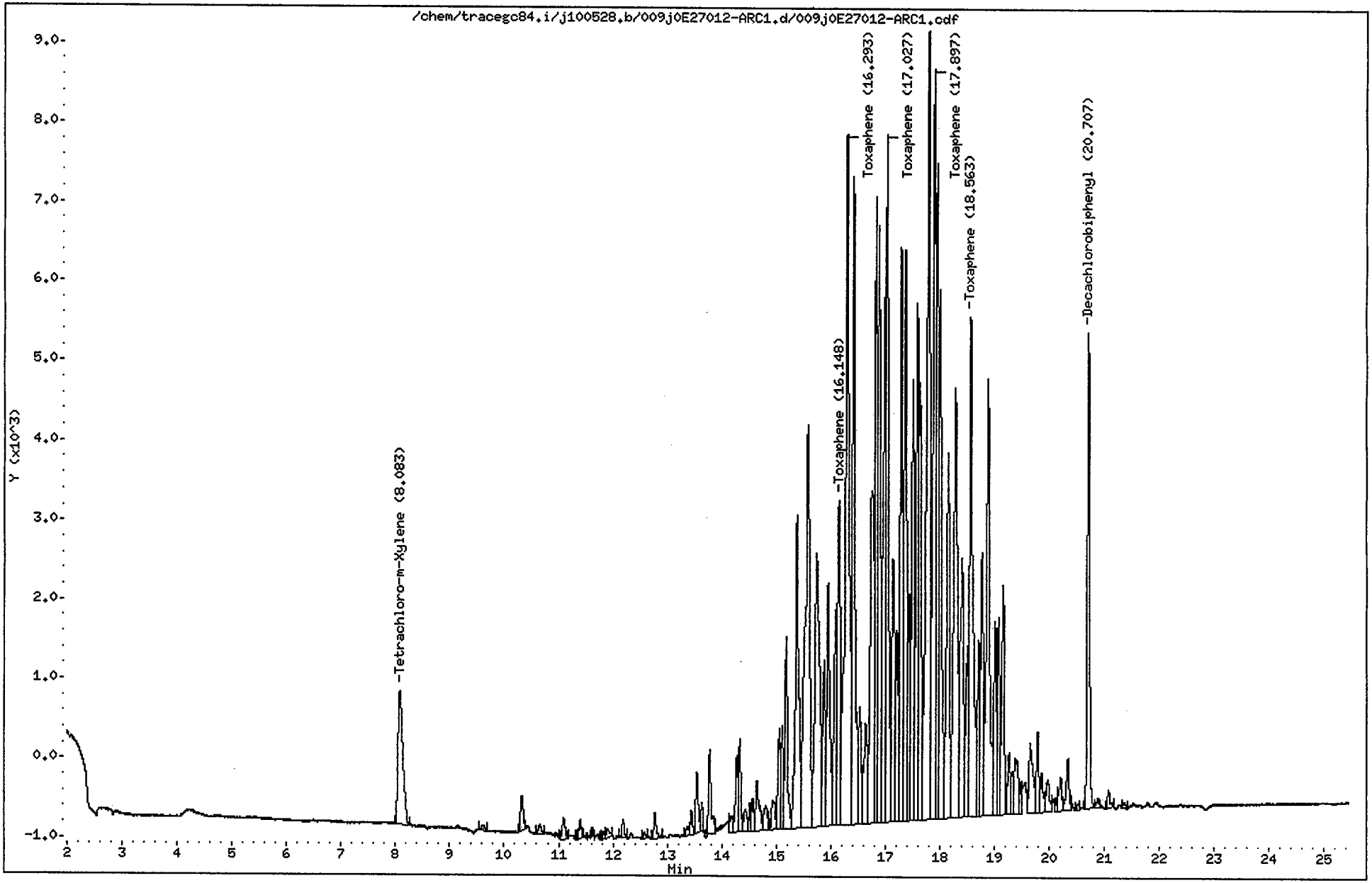
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56			24358					
8.08	8.01	8.15	10558	522758	Tetrachloro-m-Xylene	0.020000	518200	
9.62			309					
10.33			1568					
10.66			402					
11.09			990					
11.40			779					
11.82			202					
11.90			506					
12.19			648					
12.58			176					
12.77			1115					
13.37			390					
13.45			773					
13.54			2468					
13.64			912					
13.78			3494					
14.18			680					
14.28			2861					
14.33			3309					
14.43			1100					
14.52			832					
14.57			1207					
14.65			2838					
14.81			1346					
14.93			1597					
15.05			3875					
15.11			3435					
15.18			7871					
15.37			16420					
15.57			29577					
15.74			21775					
15.88			6318					
15.95			11917					
16.09			9879					
16.15	16.08	16.22	14843	7421	Toxaphene Peak 1	2.000000	7421.000	
16.29	16.22	16.36	41666	20833	Toxaphene Peak 2	2.000000	20833	
16.41			28617					
16.53			4507					
16.64			6293					
16.75			19518					
16.83			22191					

2M

AHW 6/1/10

AHW
6/1/10

CompuChem

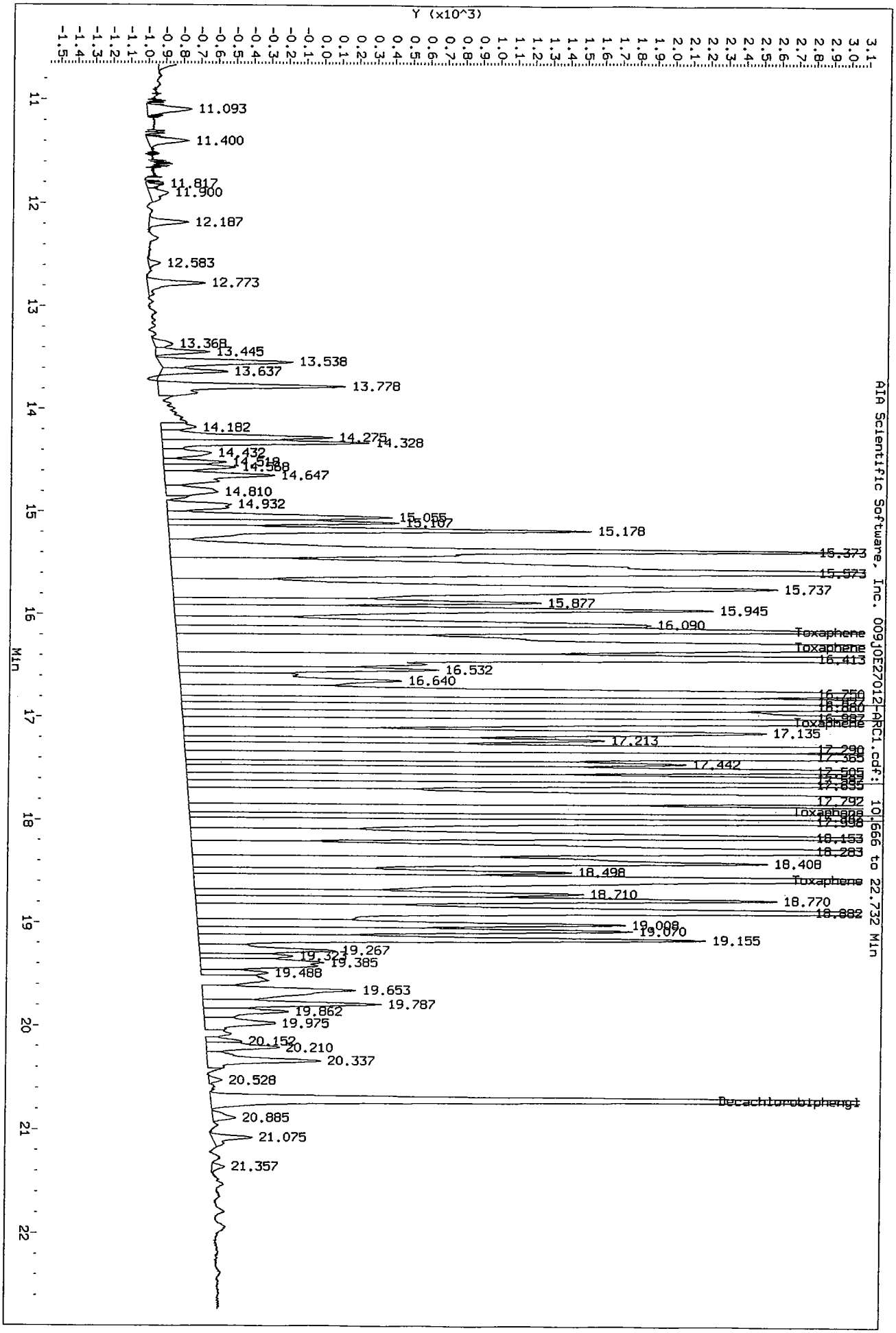
Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.88		23512					
16.99		21348					
17.03	16.96 17.10	28626	14312	Toxaphene Peak 3	2.000000	14313	
17.14		13251					
17.21		7060					
17.29		23121					
17.36		25594					
17.44		7892					
17.50		17368					
17.59		21427					
17.64		16338					
17.79		44953					
17.90	17.83 17.97	32621	16310	Toxaphene Peak 4	2.000000	16310	
17.95		23314					
18.00		21781					
18.15		17931					
18.28		26018					
18.41		15580					
18.50		6059					
18.56	18.49 18.63	26685	13342	Toxaphene Peak 5	2.000000	13342	
18.71		6666					
18.77		11185					
18.88		22226					
19.01		7578					
19.07		7754					
19.16		9352					
19.27		2707					
19.32		1421					
19.39		3544					
19.49		1084					
19.65		4444					
19.79		3103					
19.86		1723					
19.98		1738					
20.15		447					
20.21		1465					
20.34		2484					
20.53		193					
20.71	20.63 20.77	17009	408350	Decachlorobiphenyl	0.040000	403000	
20.89		448					
21.07		713					
21.36		207					

2M

Rev 6/1/10

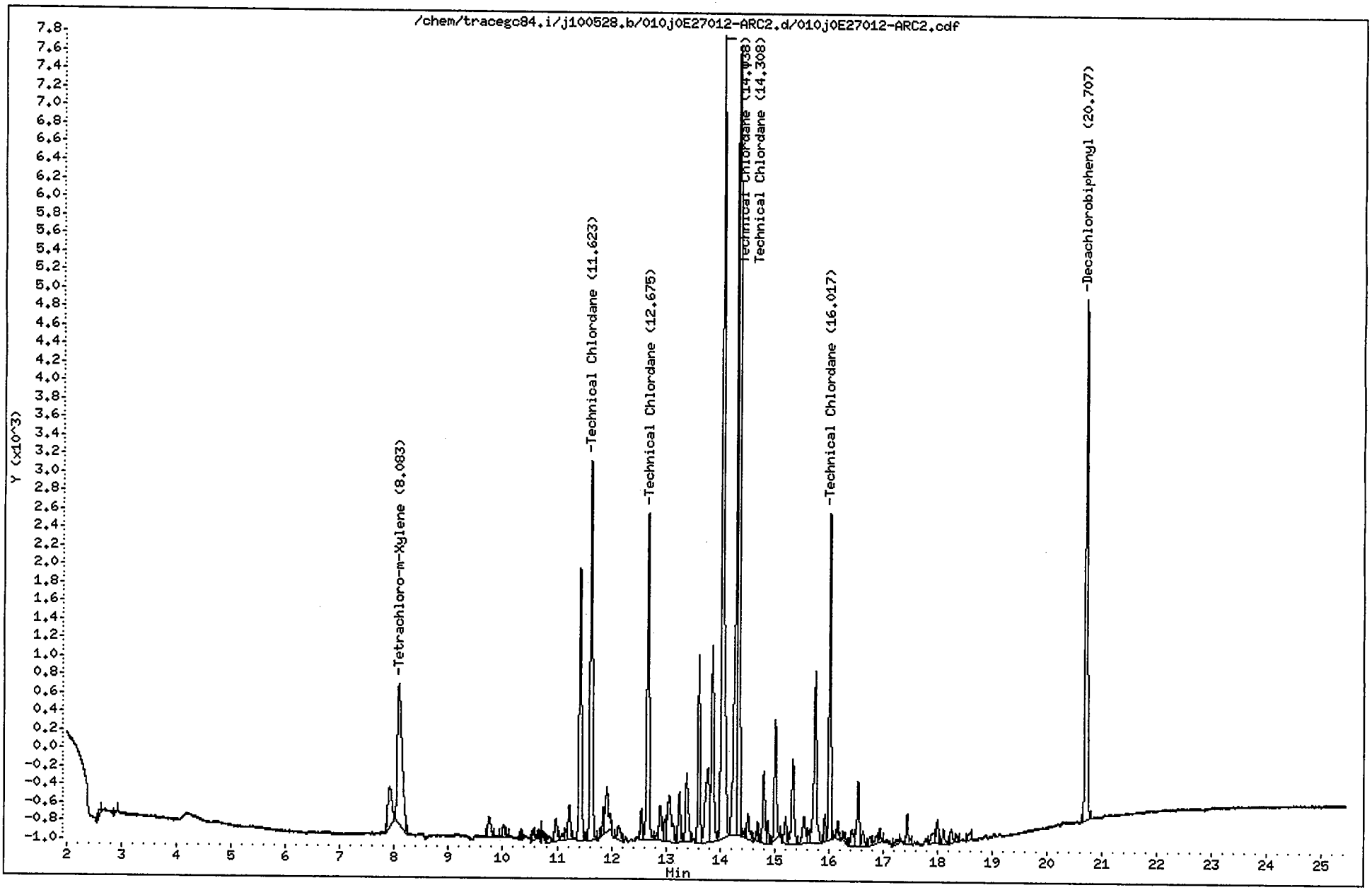
AHW 6/1/10


Data File: /chem/tracegc84.i/j100528.b/009j0E27012-ARC1.d/009j0E27012-ARC1.cdf
Injection Date: 28-MAY-2010 20:43
Instrument: tracegc84.i
Client Sample ID: TOXAPH3HA
Y (x10^3)
Min
AIA Scientific Software, Inc. 009j0E27012-ARC1.cdf: 10.666 to 22.732 Min
11.093
11.400
11.817
11.900
12.187
12.583
12.773
13.368
13.445
13.538
13.637
13.778
14.182
14.275
14.328
14.432
14.518
14.588
14.647
14.810
14.932
15.055
15.107
15.178
15.373
15.573
15.737
15.877
15.945
16.090
Toxaphene
Toxaphene
16.413
16.532
16.640
16.750
16.860
16.987
Toxaphene
17.135
17.213
17.290
17.363
17.442
17.505
17.792
Toxaphene
18.153
18.283
18.408
18.498
Toxaphene
18.710
18.770
18.882
19.008
19.070
19.155
19.267
19.323
19.385
19.488
19.653
19.787
19.862
19.975
20.152
20.210
20.337
20.528
Decachlorobiphenyl
20.885
21.075
21.357

Data File: /chem/tracegc84.i/j100528.b/010j0E27012-ARC2.d
Date : 28-MAY-2010 21:11
Client ID: CHLORO3HA
Sample Info: 0E27012-ARC2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 28-MAY-2010 21:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55		3144					
2.61		236					
2.89		132					
7.91		2292					
8.08	8.01 8.15	9295	522758	Tetrachloro-m-Xylene	0.020000	518200	
9.74		872					
10.02		546					
10.35		172					
10.55		303					
10.71		194					
10.82		301					
10.98		819					
11.10		232					
11.17		249					
11.22		1199					
11.42		9327					
11.62	11.55 11.69	12816	32040	TechnicalChlordane Peak 1	0.400000	32040	
11.85		777					
11.91		1992					
12.13		661					
12.55		847					
12.68	12.61 12.75	10802	27002	TechnicalChlordane Peak 2	0.400000	27003	
12.84		186					
12.90		1323					
12.98		581					
13.06		2773					
13.25		1605					
13.38		2661					
13.61		5322					
13.78		4299					
13.86		6651					
14.04	13.97 14.11	27683	69208	TechnicalChlordane Peak 3	0.400000	69207	
14.31	14.24 14.38	21396	53488	TechnicalChlordane Peak 4	0.400000	53487	
14.33		21026					
14.43		147					
14.51		948					
14.69		425					
14.80		2186					
14.87		657					
15.01		3629					
15.21		847					
15.34		3048					

AHW
6/1/10

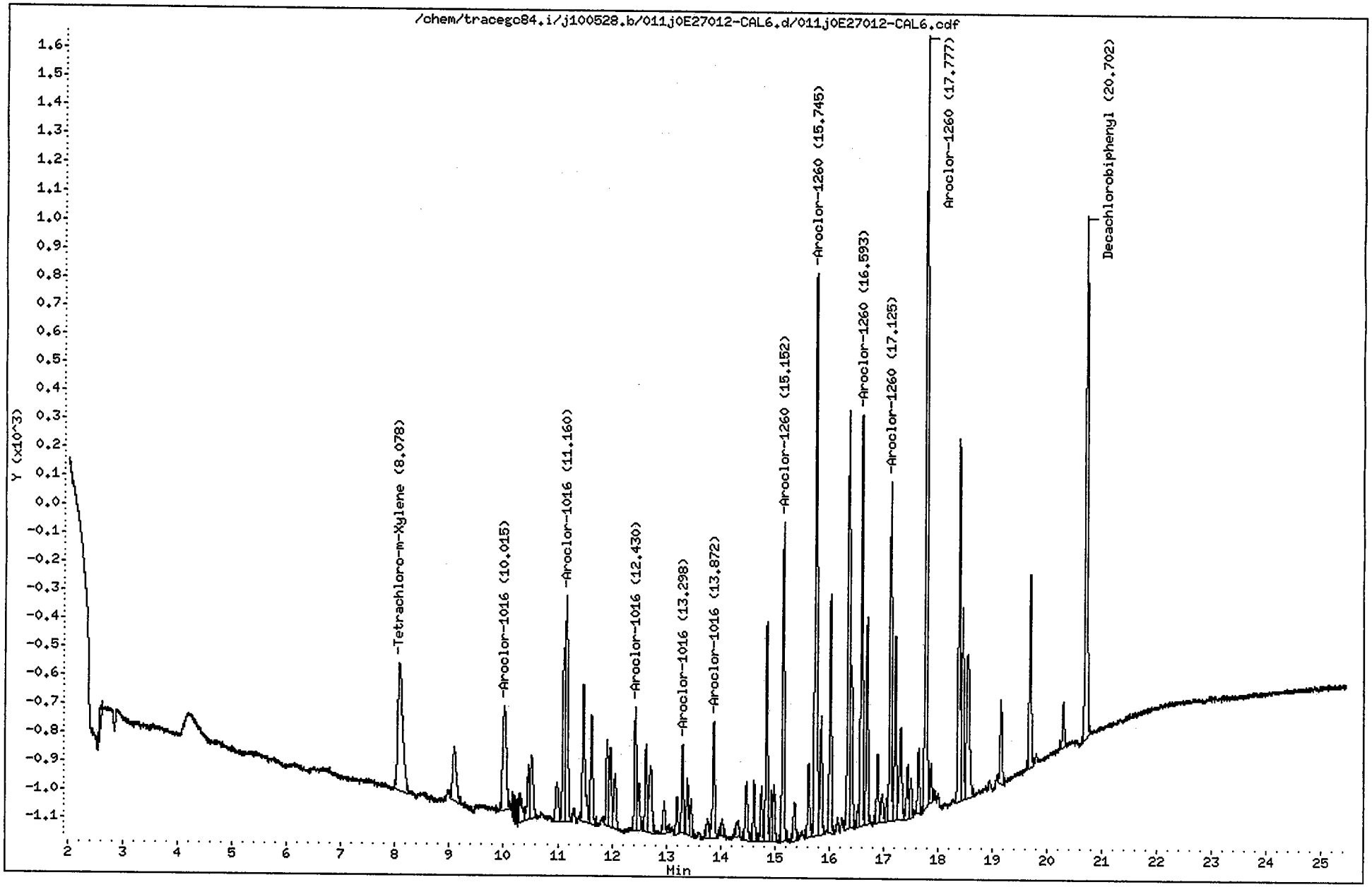
CompuChem

Lab Smp Id : 0E27012-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 28-MAY-2010 21:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.54		1136					
15.62		313					
15.75		6299					
15.93		682					
16.02	15.95 16.09	8940	22350	TechnicalChlordane Peak 5	0.400000	22350	
16.17		448					
16.29		241					
16.43		614					
16.54		2122					
16.63		473					
16.76		303					
16.88		290					
16.95		347					
17.25		149					
17.44		877					
17.89		575					
18.00		694					
18.11		452					
18.25		444					
18.36		149					
18.57		251					
20.71	20.63 20.77	15746	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/011j0E27012-CAL6.d
Date : 28-MAY-2010 21:40
Client ID: AR16601HA
Sample Info: 0E27012-CAL6
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 28-MAY-2010 21:40 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16601HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56		3520					
2.59		170					
8.08	8.01 8.15	2767	522758	Tetrachloro-m-Xylene	0.005000	537800	
9.09		902					
10.02	9.95 10.09	1704	15485	Aroclor-1016 Peak 1	0.100000	17040	
10.30		383					
10.46		489					
10.52		870					
10.98		528					
11.11		1558					
11.16	11.09 11.23	2521	22974	Aroclor-1016 Peak 2	0.100000	25200	
11.47		1557					
11.62		1096					
11.91		804					
11.97		780					
12.06		587					
12.43	12.36 12.50	1156	10563	Aroclor-1016 Peak 3	0.100000	11560	
12.49		414					
12.63		808					
12.72		911					
12.96		316					
13.20		306					
13.30	13.23 13.37	745	6997	Aroclor-1016 Peak 4	0.100000	7450.000	
13.39		506					
13.46		304					
13.77		199					
13.87	13.81 13.95	1131	10047	Aroclor-1016 Peak 5	0.100000	11310	
14.03		153					
14.30		186					
14.48		587					
14.62		512					
14.75		471					
14.85		1852					
14.94		401					
14.98		478					
15.15	15.08 15.22	2767	23522	Aroclor-1260 Peak 1	0.100000	27660	
15.36		403					
15.62		649					
15.74	15.68 15.82	5499	46694	Aroclor-1260 Peak 2	0.100000	54980	
15.85		1061					
16.02		2074					
16.35		3908					

AHW
6/1/10

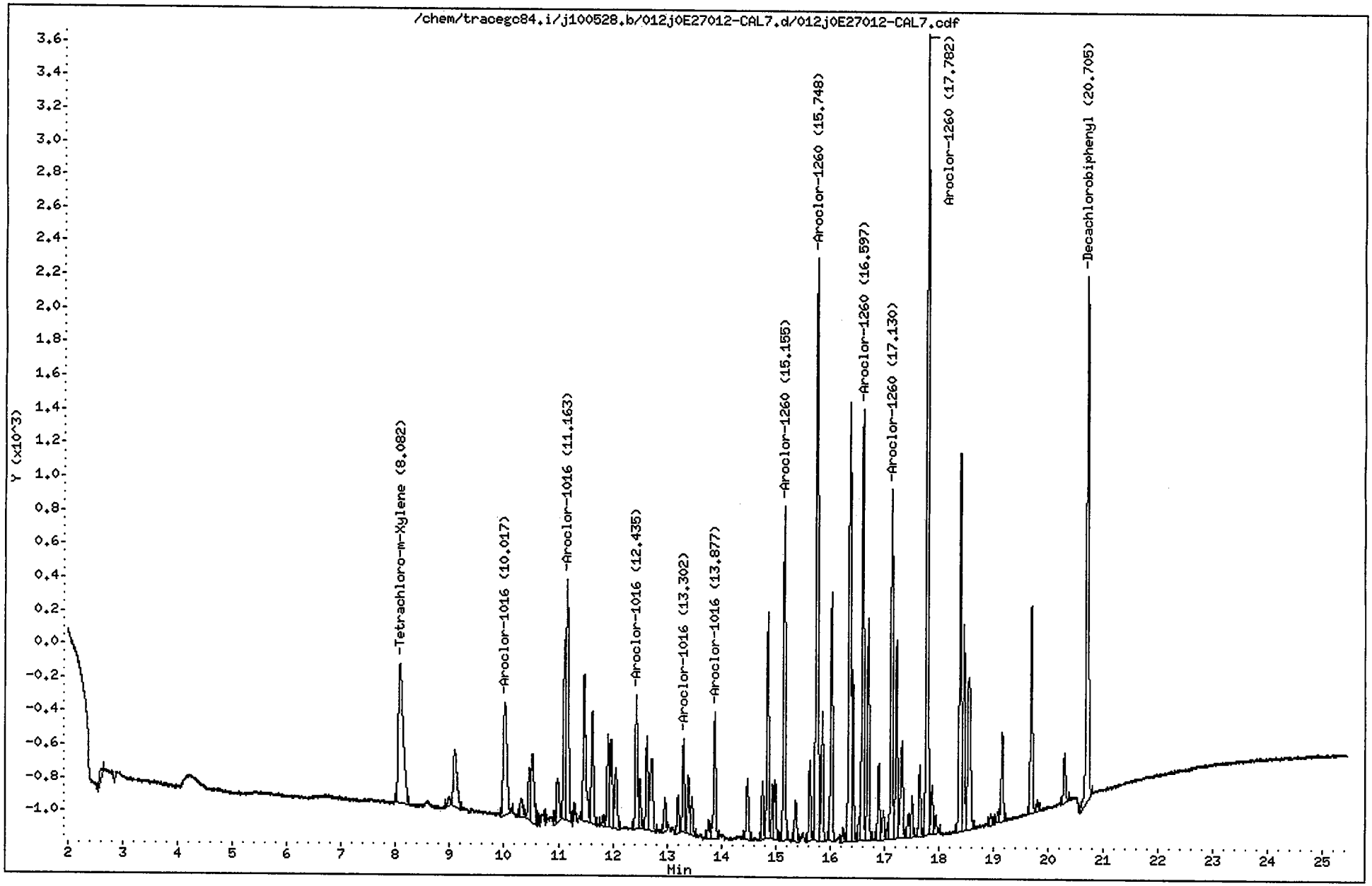
CompuChem

Lab Smp Id : 0E27012-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 28-MAY-2010 21:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16601HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.41		1447					
16.53		138					
16.59	16.53 16.67	3561	30634	Aroclor-1260 Peak 3	0.100000	35610	
16.70		1748					
16.89		619					
16.98		267					
17.06		185					
17.12	17.06 17.20	2961	25456	Aroclor-1260 Peak 4	0.100000	29610	
17.21		1590					
17.32		996					
17.44		512					
17.50		339					
17.65		558					
17.78	17.71 17.85	6708	57759	Aroclor-1260 Peak 5	0.100000	67080	
17.87		305					
18.39		3123					
18.45		1664					
18.54		2061					
19.16		730					
19.69		1693					
20.29		371					
20.70	20.63 20.77	4944	408350	Decachlorobiphenyl	0.010000	482100	

Data File: /chem/tracegc84.i/j100528.b/012j0E27012-CAL7.d
Date : 28-MAY-2010 22:10
Client ID: AR16602HA
Sample Info: 0E27012-CAL7
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 28-MAY-2010 22:10 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16602HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56		3394					
2.62		287					
8.08	8.01 8.15	5111	522758	Tetrachloro-m-Xylene	0.010000	545600	
8.98		168					
9.09		1587					
10.02	9.95 10.09	3202	15485	Aroclor-1016 Peak 1	0.200000	16010	
10.32		401					
10.47		855					
10.53		1721					
10.95		194					
10.99		893					
11.11		2453					
11.16	11.09 11.23	4955	22974	Aroclor-1016 Peak 2	0.200000	24775	
11.48		2978					
11.63		1965					
11.83		175					
11.91		1534					
11.97		1482					
12.06		1224					
12.44	12.36 12.50	2175	10563	Aroclor-1016 Peak 3	0.200000	10870	
12.50		784					
12.63		1476					
12.72		1715					
12.96		496					
13.20		546					
13.30	13.23 13.37	1376	6997	Aroclor-1016 Peak 4	0.200000	6875.000	
13.39		893					
13.46		572					
13.77		273					
13.88	13.81 13.95	2082	10047	Aroclor-1016 Peak 5	0.200000	10405	
14.48		1031					
14.76		821					
14.85		3269					
14.94		740					
14.99		840					
15.16	15.08 15.22	4966	23522	Aroclor-1260 Peak 1	0.200000	24830	
15.37		690					
15.63		1165					
15.75	15.68 15.82	9746	46694	Aroclor-1260 Peak 2	0.200000	48725	
15.86		1914					
16.02		3785					
16.24		204					

AHW
6/1/10

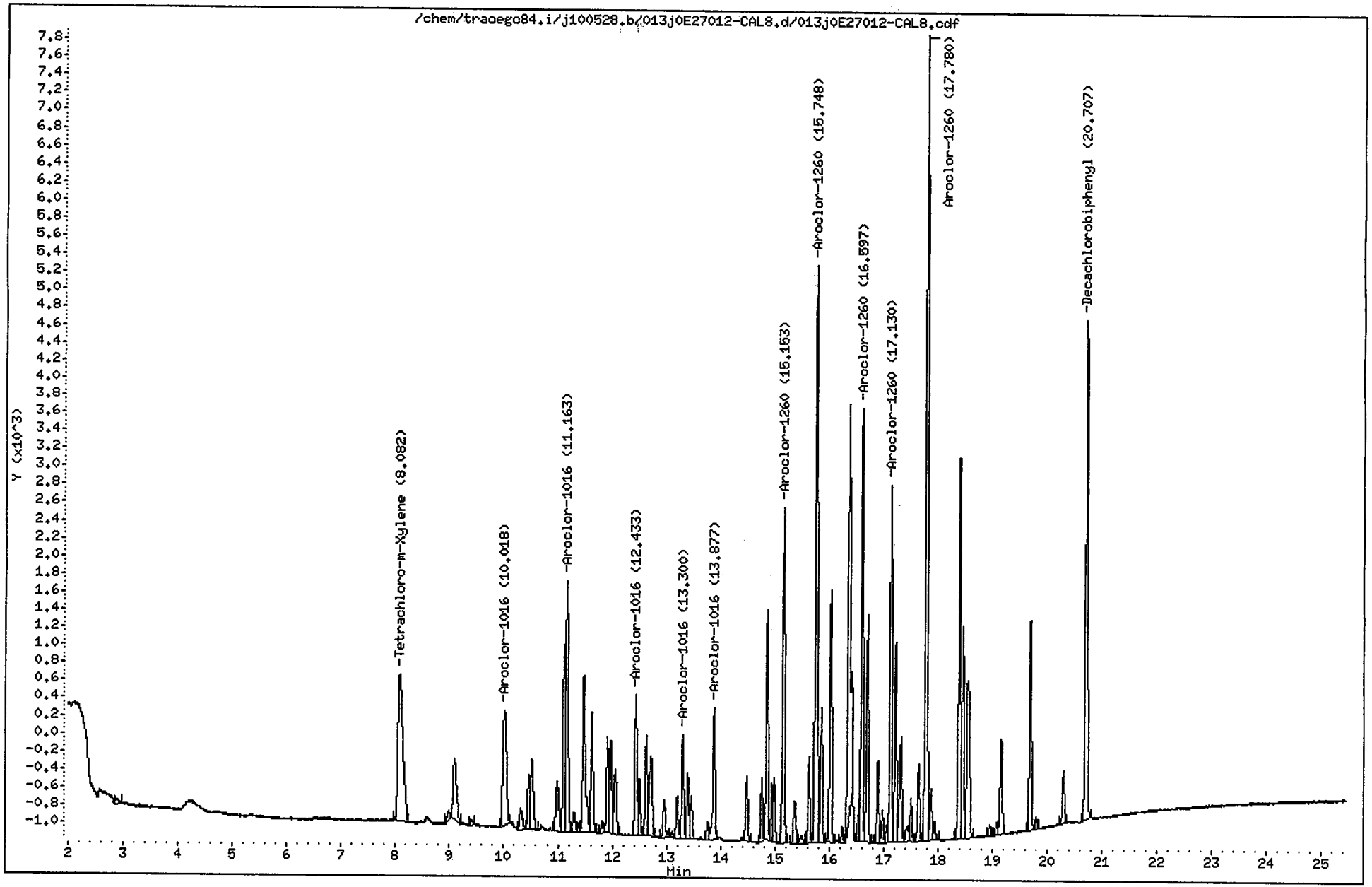
CompuChem

Lab Smp Id : 0E27012-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 28-MAY-2010 22:10 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16602HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.36		7192					
16.41		2387					
16.53		279					
16.60	16.53 16.67	6472	30634	Aroclor-1260 Peak 3	0.200000	32360	
16.70		3267					
16.89		1120					
16.98		448					
17.05		200					
17.13	17.06 17.20	5313	25456	Aroclor-1260 Peak 4	0.200000	26565	
17.22		2891					
17.32		1753					
17.44		413					
17.51		561					
17.65		1014					
17.78	17.71 17.85	12048	57759	Aroclor-1260 Peak 5	0.200000	60240	
17.87		729					
17.94		293					
18.39		5771					
18.45		3059					
18.55		3649					
18.95		160					
19.08		156					
19.16		1411					
19.69		3081					
19.80		138					
20.29		789					
20.70	20.63 20.77	8841	408350	Decachlorobiphenyl	0.020000	446650	

Data File: /chem/tracegc84.i/j100528.b/013j0E27012-CAL8.d
Date : 28-MAY-2010 22:38
Client ID: AR16603HA
Sample Info: 0E27012-CAL8
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 28-MAY-2010 22:38 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16603HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56		24150					
2.88		267					
8.08	8.01 8.15	10346	522758	Tetrachloro-m-Xylene	0.020000	518200	
8.99		354					
9.09		3161					
9.41		176					
10.02	9.95 10.09	6110	15485	Aroclor-1016 Peak 1	0.400000	15275	
10.32		841					
10.46		1618					
10.52		2899					
10.99		2044					
11.11		5325					
11.16	11.09 11.23	9213	22974	Aroclor-1016 Peak 2	0.400000	23033	
11.30		682					
11.38		210					
11.48		6114					
11.63		3897					
11.82		302					
11.91		2768					
11.97		2942					
12.06		2375					
12.43	12.36 12.50	4296	10563	Aroclor-1016 Peak 3	0.400000	10740	
12.50		1583					
12.63		2895					
12.72		3338					
12.96		1215					
13.11		157					
13.20		1187					
13.30	13.23 13.37	2917	6997	Aroclor-1016 Peak 4	0.400000	7290.000	
13.39		1889					
13.46		1219					
13.77		494					
13.88	13.81 13.95	3998	10047	Aroclor-1016 Peak 5	0.400000	9995.000	
14.48		1969					
14.76		1640					
14.85		6318					
14.94		1482					
14.99		1704					
15.15	15.08 15.22	9457	23522	Aroclor-1260 Peak 1	0.400000	23643	
15.36		1397					
15.49		293					
15.63		2355					

AHW
6/1/10

CompuChem

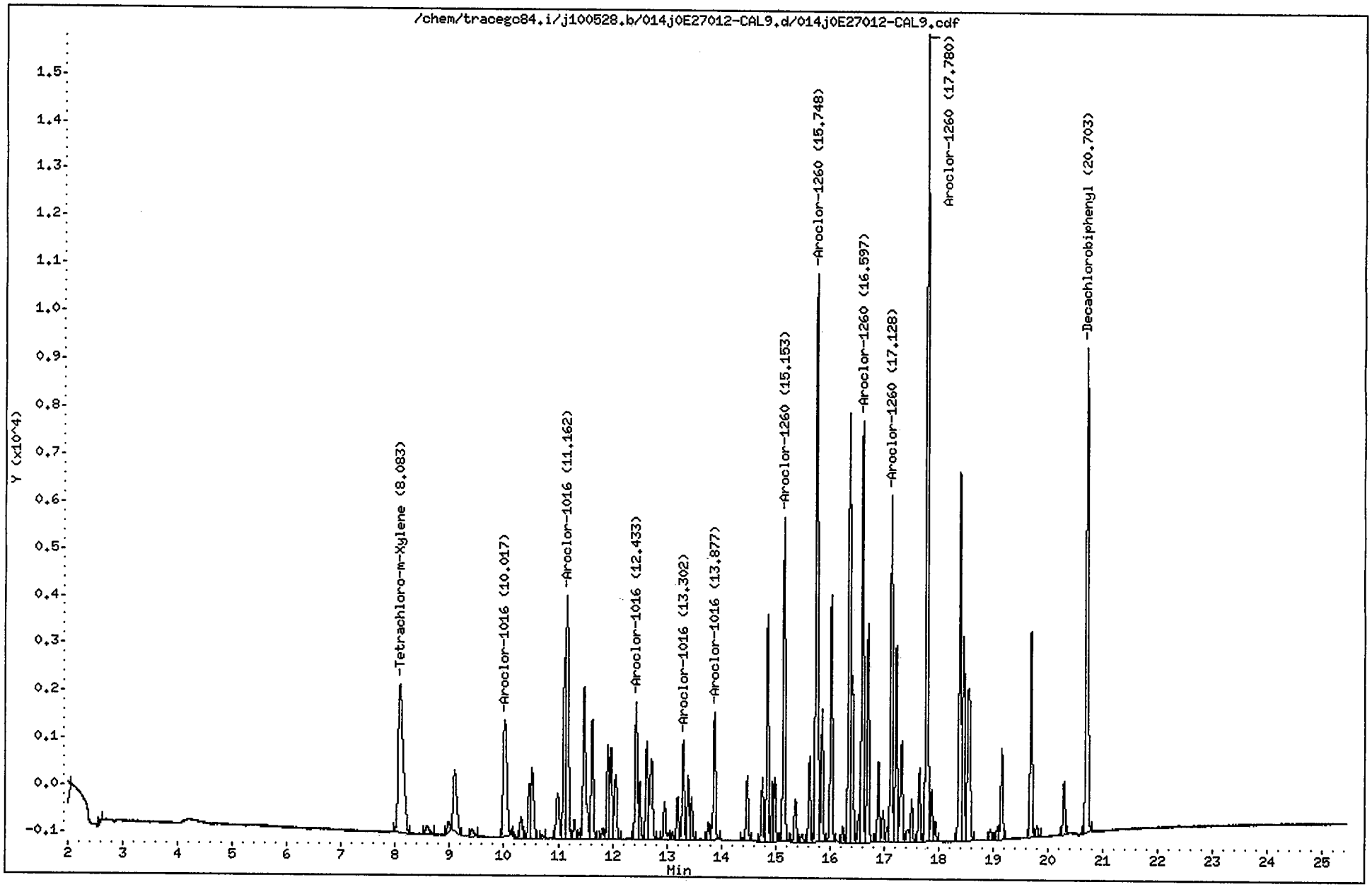
Lab Smp Id : 0E27012-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 28-MAY-2010 22:38 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16603HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.75	15.68 15.82	18648	46694	Aroclor-1260 Peak 2	0.400000	46620	
15.85		3801					
16.02		7349					
16.24		412					
16.36		15379					
16.53		642					
16.60	16.53 16.67	12252	30634	Aroclor-1260 Peak 3	0.400000	30627	
16.70		6322					
16.89		2203					
16.98		867					
17.06		395					
17.13	17.06 17.20	10256	25456	Aroclor-1260 Peak 4	0.400000	25640	
17.22		5637					
17.32		3467					
17.44		592					
17.51		1173					
17.65		2041					
17.78	17.71 17.85	22955	57759	Aroclor-1260 Peak 5	0.400000	57385	
17.87		1415					
17.94		520					
18.39		11047					
18.45		5878					
18.55		6954					
18.95		327					
19.08		343					
19.16		2847					
19.69		5998					
19.80		299					
20.30		1460					
20.71	20.63 20.77	15493	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/014j0E27012-CAL9.d
Date : 28-MAY-2010 23:07
Client ID: AR16604HA
Sample Info: 0E27012-CAL9
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 28-MAY-2010 23:07 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16604HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44		125					
1.56		25544					
2.60		153					
8.08	8.01 8.15	20185	522758	Tetrachloro-m-Xylene	0.040000	513275	
8.59		872					
8.98		657					
9.09		6109					
9.41		565					
10.02	9.95 10.09	11992	15485	Aroclor-1016 Peak 1	0.800000	14990	
10.31		1623					
10.47		3365					
10.52		5263					
10.71		191					
10.99		3888					
11.11		9659					
11.16	11.09 11.23	17361	22974	Aroclor-1016 Peak 2	0.800000	21701	
11.30		1192					
11.39		386					
11.47		11480					
11.63		7407					
11.82		660					
11.91		5385					
11.97		5650					
12.06		4523					
12.43	12.36 12.50	8185	10563	Aroclor-1016 Peak 3	0.800000	10230	
12.50		3221					
12.63		5585					
12.72		6541					
12.96		2515					
13.11		407					
13.20		2340					
13.30	13.23 13.37	5559	6997	Aroclor-1016 Peak 4	0.800000	6948.750	
13.39		3616					
13.46		2380					
13.77		956					
13.88	13.81 13.95	7714	10047	Aroclor-1016 Peak 5	0.800000	9642.500	
14.39		179					
14.47		3827					
14.76		3371					
14.85		12073					
14.94		3015					
14.99		3303					

AHW
6/1/10

CompuChem

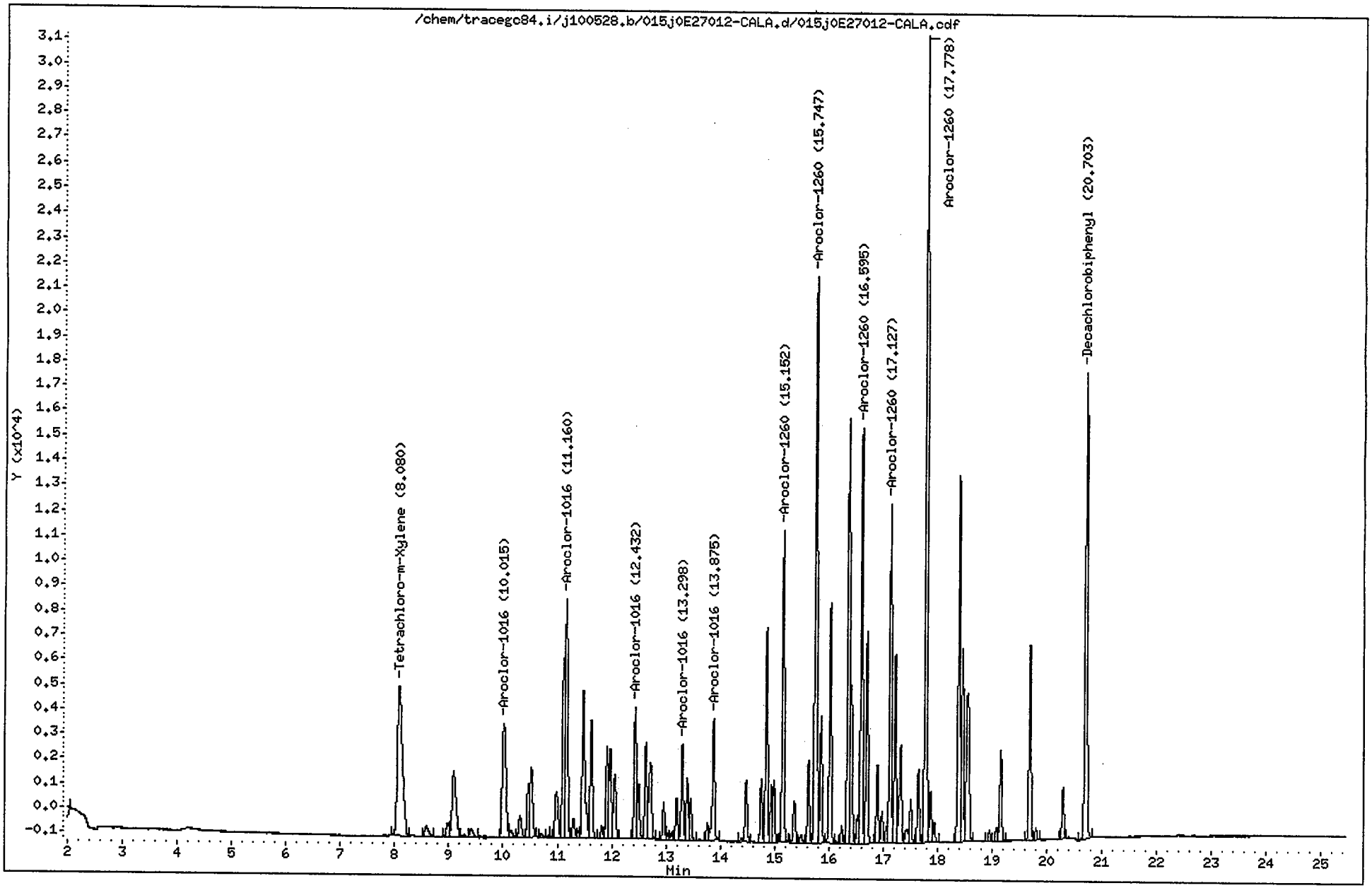
Lab Smp Id : 0E27012-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 28-MAY-2010 23:07 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16604HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.15	15.08 15.22	17271	23522	Aroclor-1260 Peak 1	0.800000	21587	
15.37		2617					
15.50		557					
15.62		4436					
15.75	15.68 15.82	34379	46694	Aroclor-1260 Peak 2	0.800000	42974	
15.85		7021					
16.02		13737					
16.23		803					
16.36		25290					
16.41		8474					
16.53		1302					
16.60	16.53 16.67	22635	30634	Aroclor-1260 Peak 3	0.800000	28294	
16.70		11870					
16.89		4166					
16.98		1645					
17.05		713					
17.13	17.06 17.20	18884	25456	Aroclor-1260 Peak 4	0.800000	23605	
17.22		10385					
17.32		6517					
17.42		996					
17.50		2248					
17.65		3880					
17.78	17.71 17.85	42652	57759	Aroclor-1260 Peak 5	0.800000	53315	
17.87		2672					
17.94		950					
18.39		20345					
18.45		10856					
18.55		12918					
18.95		603					
19.08		650					
19.16		5250					
19.69		11058					
19.80		591					
20.29		2820					
20.70	20.63 20.77	28052	408350	Decachlorobiphenyl	0.080000	369313	

Data File: /chem/tracegc84.i/j100528.b/015j0E27012-CALA.d
Date : 28-MAY-2010 23:36
Client ID: AR16605HA
Sample Info: 0E27012-CALA
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 28-MAY-2010 23:36 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16605HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44		136					
1.56		22796					
8.08	8.01 8.15	38541	522758	Tetrachloro-m-Xylene	0.080000	498913	
8.58		2097					
8.97		2115					
9.09		13363					
9.41		1315					
10.02	9.95 10.09	22577	15485	Aroclor-1016 Peak 1	1.600000	14111	
10.14		1046					
10.31		3107					
10.47		6161					
10.52		10007					
10.70		493					
10.86		130					
10.98		7446					
11.11		18142					
11.16	11.09 11.23	32256	22974	Aroclor-1016 Peak 2	1.600000	20160	
11.29		2414					
11.39		790					
11.47		21565					
11.62		14013					
11.82		1333					
11.91		10102					
11.97		10481					
12.05		8519					
12.43	12.36 12.50	15068	10563	Aroclor-1016 Peak 3	1.600000	9416.875	
12.49		6118					
12.63		10474					
12.72		12219					
12.96		4138					
13.03		666					
13.10		773					
13.20		4471					
13.30	13.23 13.37	10278	6997	Aroclor-1016 Peak 4	1.600000	6423.125	
13.39		6778					
13.45		4623					
13.76		1816					
13.88	13.81 13.95	14214	10047	Aroclor-1016 Peak 5	1.600000	8883.125	
14.39		257					
14.48		6972					
14.75		6257					
14.85		22143					

AHW
6/1/10

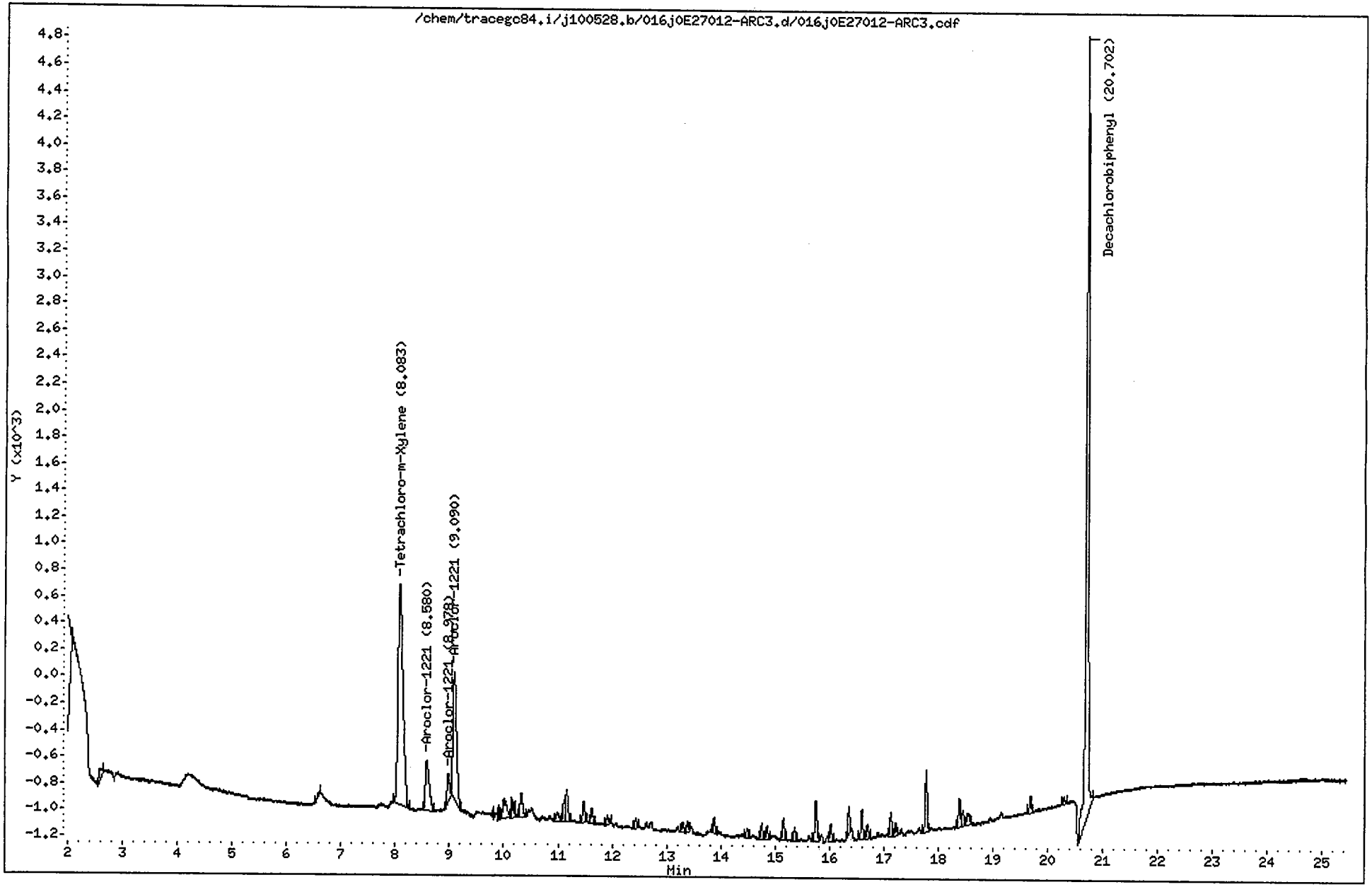
CompuChem

Lab Smp Id : 0E27012-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 28-MAY-2010 23:36 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16605HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.94		5693					
14.98		6157					
15.15	15.08 15.22	31824	23522	Aroclor-1260 Peak 1	1.600000	19889	
15.36		4930					
15.49		1046					
15.62		8213					
15.75	15.68 15.82	64274	46694	Aroclor-1260 Peak 2	1.600000	40171	
15.85		12877					
16.02		25491					
16.13		199					
16.23		1546					
16.35		47716					
16.41		15057					
16.53		2560					
16.60	16.53 16.67	42043	30634	Aroclor-1260 Peak 3	1.600000	26276	
16.70		21872					
16.89		7781					
16.98		3167					
17.05		1430					
17.13	17.06 17.20	34976	25456	Aroclor-1260 Peak 4	1.600000	21860	
17.22		19261					
17.32		12242					
17.43		2019					
17.50		4340					
17.65		7276					
17.78	17.71 17.85	81243	57759	Aroclor-1260 Peak 5	1.600000	50777	
17.87		5164					
17.94		1884					
18.39		38185					
18.45		19689					
18.54		23668					
18.95		1141					
19.08		1255					
19.16		9881					
19.69		20464					
19.80		1193					
20.29		5262					
20.70	20.63 20.77	51898	408350	Decachlorobiphenyl	0.160000	340687	

Data File: /chem/tracegc84.i/j100528.b/016j0E27012-ARC3.d
Date : 29-MAY-2010 00:05
Client ID: AR12213HA
Sample Info: 0E27012-ARC3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

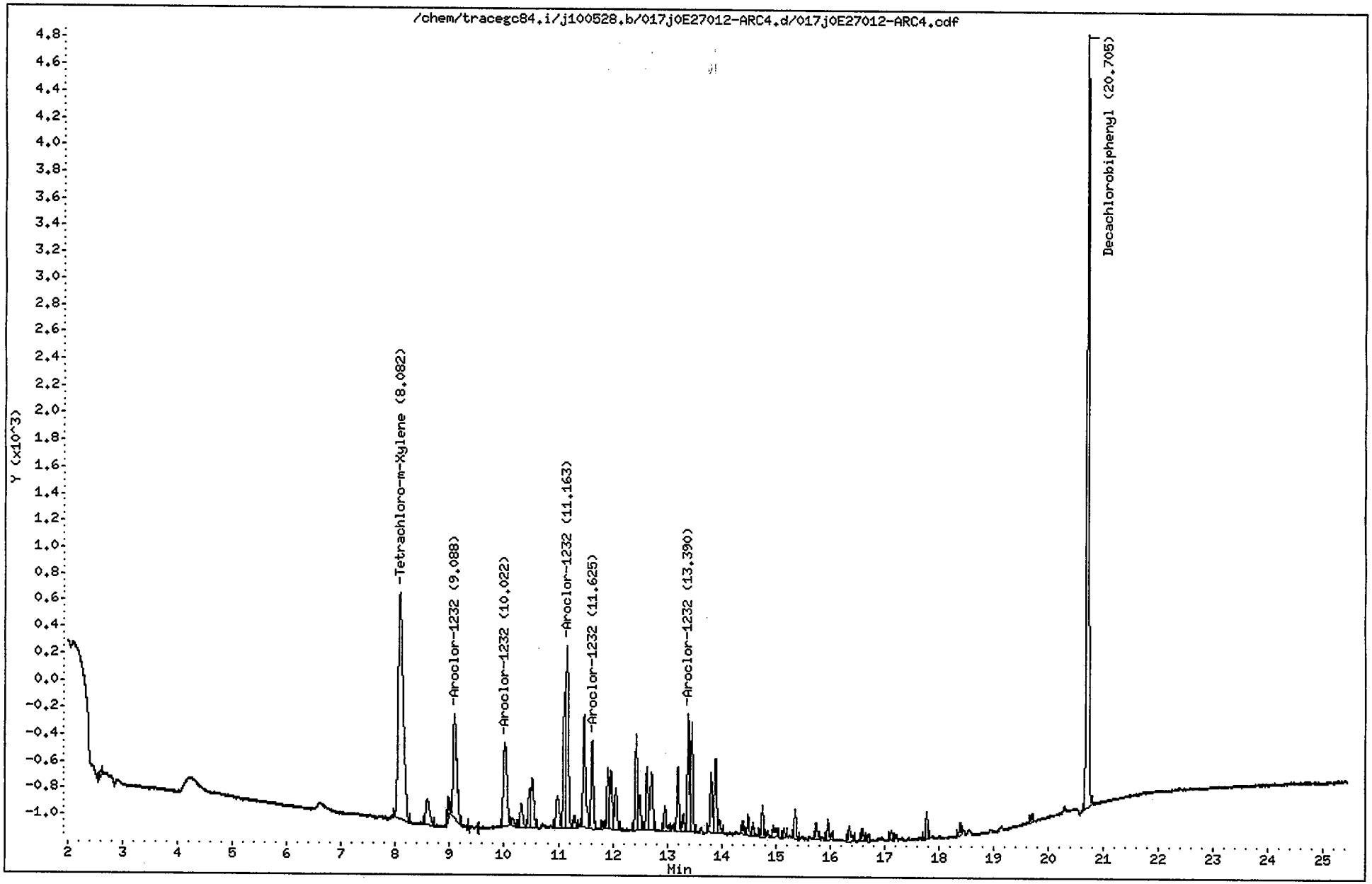
Lab Smp Id : 0E27012-ARC3 Client Smp Id : AR12213HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 29-MAY-2010 00:05 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12213HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56			46706					
2.59			246					
6.60			145					
8.08	8.01	8.15	10436	522758	Tetrachloro-m-Xylene	0.020000	518200	
8.58	8.51	8.65	1932	4828	Aroclor-1221 Peak 2	0.400000	4827.500	
8.98	8.91	9.05	681	1702	Aroclor-1221 Peak 3	0.400000	1702.500	
9.09	9.02	9.16	4396	10990	Aroclor-1221 Peak 4	0.400000	10990	
10.00			677					
10.15			419					
10.33			647					
10.99			266					
11.12			393					
11.16			780					
11.48			448					
11.62			347					
11.92			222					
12.44			192					
13.30			205					
13.39			169					
13.88			264					
14.48			191					
14.75			287					
14.85			245					
15.15			395					
15.35			268					
15.74			845					
16.02			328					
16.36			480					
16.59			511					
16.70			249					
17.13			433					
17.21			227					
17.78			1137					
18.38			540					
18.45			277					
18.55			314					
19.69			302					
20.29			148					
20.70	20.63	20.77	17787	408350	Decachlorobiphenyl	0.040000	403000	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/017j0E27012-ARC4.d
Date : 29-MAY-2010 00:34
Client ID: AR12323HA
Sample Info: 0E27012-ARC4
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 29-MAY-2010 00:34 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56		23153					
2.59		142					
8.08	8.01 8.15	10692	522758	Tetrachloro-m-Xylene	0.020000	518200	
8.59		1062					
8.97		388					
9.09	9.02 9.16	3587	8968	Aroclor-1232 Peak 1	0.400000	8967.500	
10.02	9.95 10.09	2925	7312	Aroclor-1232 Peak 2	0.400000	7312.500	
10.16		195					
10.32		666					
10.46		729					
10.52		1411					
10.99		964					
11.11		2664					
11.16	11.09 11.23	4330	10825	Aroclor-1232 Peak 3	0.400000	10825	
11.30		252					
11.48		2752					
11.62	11.56 11.70	1875	4685	Aroclor-1232 Peak 4	0.400000	4685.000	
11.83		130					
11.91		1200					
11.97		1266					
12.06		993					
12.43		1930					
12.50		704					
12.63		1233					
12.72		1571					
12.96		599					
13.20		1217					
13.30		330					
13.39	13.32 13.46	2184	5460	Aroclor-1232 Peak 5	0.400000	5460.000	
13.46		2195					
13.81		1214					
13.90		1610					
13.96		261					
14.39		229					
14.49		374					
14.59		240					
14.76		583					
14.96		323					
15.15		151					
15.36		554					
15.74		334					
15.96		451					

AHW
6/1/10

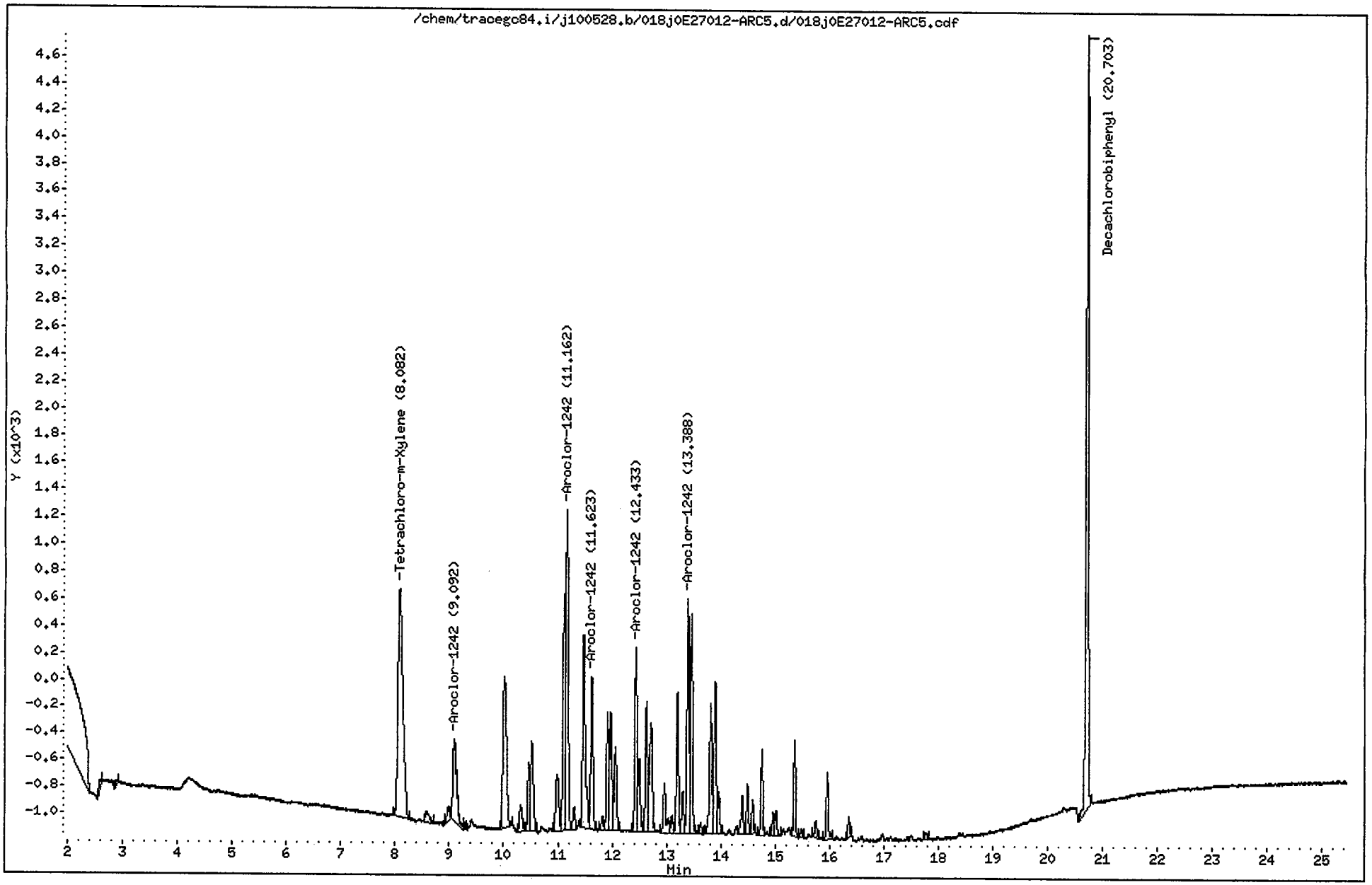
CompuChem

Lab Smp Id : 0E27012-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 29-MAY-2010 00:34 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.36		371					
16.59		223					
16.70		121					
17.13		177					
17.78		507					
18.39		203					
19.69		148					
20.70	20.63 20.77	15922	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/018j0E27012-ARC5.d
Date : 29-MAY-2010 01:03
Client ID: AR12423HA
Sample Info: 0E27012-ARC5
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 29-MAY-2010 01:03 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12423HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.45			268					
1.57			51914					
2.59			168					
2.88			149					
8.08	8.01	8.15	10697	522758	Tetrachloro-m-Xylene	0.020000	518200	
8.58			421					
8.97			453					
9.09	9.02	9.16	2993	7480	Aroclor-1242 Peak 1	0.400000	7480.000	
10.02			5302					
10.32			672					
10.47			1415					
10.52			2363					
10.99			1671					
11.11			4527					
11.16	11.09	11.23	7642	19102	Aroclor-1242 Peak 2	0.400000	19103	
11.30			461					
11.47			4930					
11.62	11.55	11.69	3237	8092	Aroclor-1242 Peak 3	0.400000	8092.500	
11.82			273					
11.91			2376					
11.97			2518					
12.06			2001					
12.43	12.36	12.50	3706	9262	Aroclor-1242 Peak 4	0.400000	9262.500	
12.49			1438					
12.63			2561					
12.72			3057					
12.96			1275					
13.10			313					
13.20			2678					
13.30			812					
13.39	13.32	13.46	4515	11288	Aroclor-1242 Peak 5	0.400000	11287	
13.46			4257					
13.63			207					
13.81			2818					
13.89			3385					
13.96			739					
14.39			756					
14.49			883					
14.59			574					
14.76			1518					
14.96			435					
15.02			461					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 29-MAY-2010 01:03 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12423HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.36		1704					
15.49		134					
15.74		349					
15.96		1315					
16.36		348					
17.78		130					
20.70	20.63 20.77	16204	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/019j0E27012-ARC6.d

Date : 29-MAY-2010 01:32

Client ID: AR12483HA

Sample Info: 0E27012-ARC6

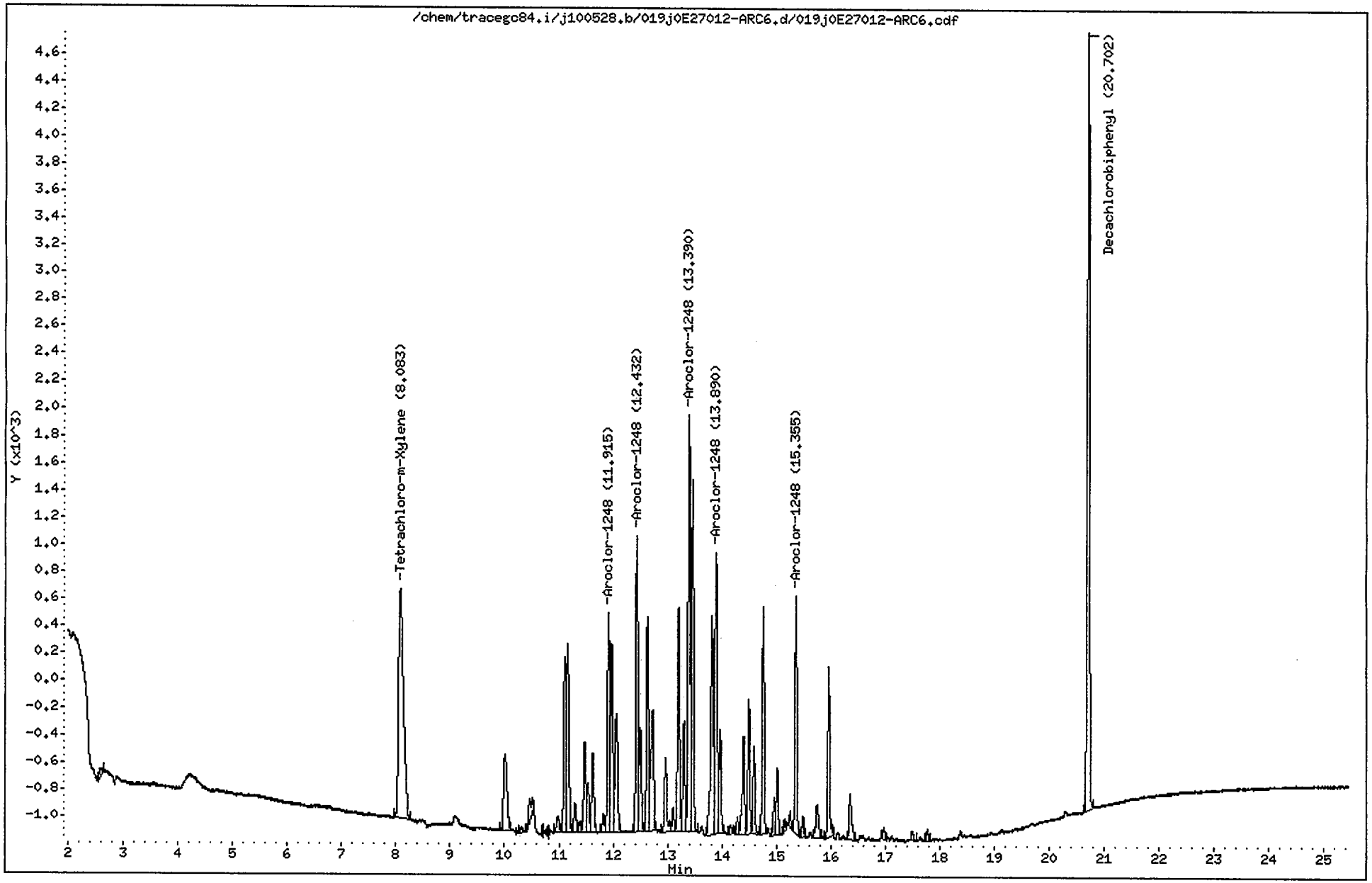
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 29-MAY-2010 01:32 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.57		26123					
2.59		199					
8.08	8.01 8.15	10582	522758	Tetrachloro-m-Xylene	0.020000	518200	
10.01		2614					
10.31		167					
10.47		703					
10.98		429					
11.11		3552					
11.16		4295					
11.30		638					
11.39		196					
11.48		1916					
11.53		1037					
11.63		1672					
11.82		396					
11.92	11.84 11.98	4449	11120	Aroclor-1248 Peak 1	0.400000	11120	
11.97		3850					
12.05		2890					
12.43	12.36 12.50	5968	14920	Aroclor-1248 Peak 2	0.400000	14920	
12.50		2000					
12.63		4254					
12.72		3299					
12.96		1648					
13.11		452					
13.20		4311					
13.30		2178					
13.39	13.32 13.46	8089	20220	Aroclor-1248 Peak 3	0.400000	20220	
13.46		6838					
13.81		5073					
13.89	13.82 13.96	6583	16458	Aroclor-1248 Peak 4	0.400000	16457	
13.96		1985					
14.16		160					
14.28		317					
14.39		2093					
14.49		2431					
14.58		1625					
14.76		4083					
14.96		726					
15.02		1270					
15.15		206					
15.25		263					
15.36	15.29 15.43	4153	10382	Aroclor-1248 Peak 5	0.400000	10383	

AHW
6/1/10

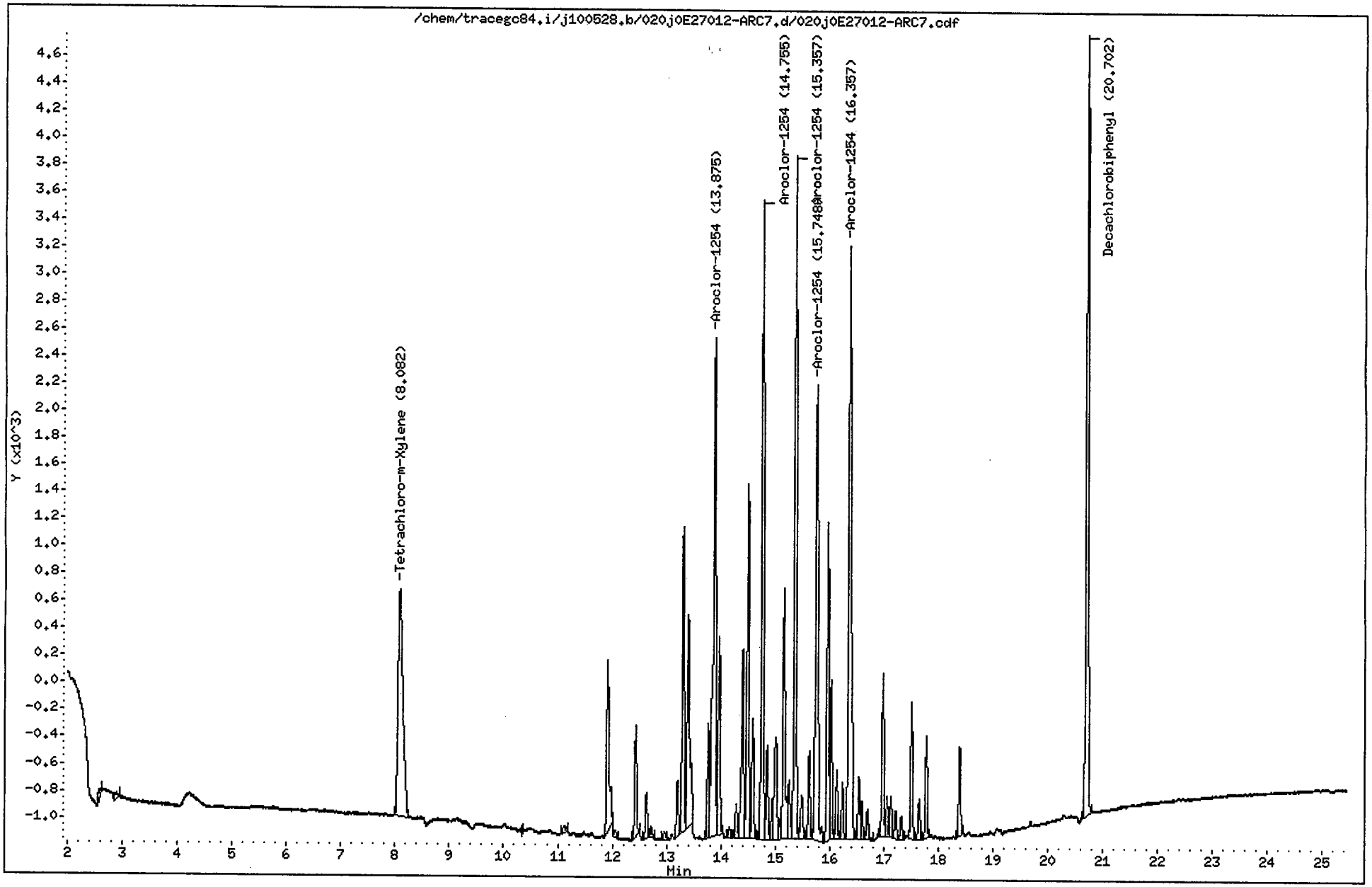
CompuChem

Lab Smp Id : 0E27012-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 29-MAY-2010 01:32 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.49		369					
15.75		890					
15.96		3202					
16.36		1104					
16.98		203					
17.50		168					
17.77		204					
20.70	20.63 20.77	15735	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/020j0E27012-ARC7.d
Date : 29-MAY-2010 02:01
Client ID: AR12543HA
Sample Info: 0E27012-ARC7
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 29-MAY-2010 02:01 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.57		3467					
2.60		226					
2.88		166					
8.08	8.01 8.15	10470	522758	Tetrachloro-m-Xylene	0.020000	518200	
11.11		211					
11.91		3962					
12.05		128					
12.43		2100					
12.63		859					
12.72		192					
12.96		157					
13.20		1002					
13.30		5700					
13.39		5431					
13.77		2080					
13.88	13.80 13.94	12324	30808	Aroclor-1254 Peak 1	0.400000	30807	
13.96		3770					
14.16		194					
14.28		607					
14.39		3914					
14.49		6797					
14.58		2204					
14.76	14.69 14.83	11839	29595	Aroclor-1254 Peak 2	0.400000	29595	
14.85		1701					
14.94		672					
15.01		2782					
15.08		305					
15.15		5184					
15.25		1211					
15.36	15.29 15.43	12857	32140	Aroclor-1254 Peak 3	0.400000	32140	
15.49		979					
15.63		1563					
15.75	15.68 15.82	11314	28282	Aroclor-1254 Peak 4	0.400000	28283	
15.96		5720					
16.02		2833					
16.13		1225					
16.23		983					
16.36	16.29 16.43	14550	36372	Aroclor-1254 Peak 5	0.400000	36373	
16.54		1171					
16.59		635					
16.70		560					
16.98		2984					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 29-MAY-2010 02:01 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
17.06		685					
17.13		691					
17.21		479					
17.32		400					
17.51		2421					
17.65		710					
17.78		1824					
18.39		1563					
20.70	20.63 20.77	15780	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/021j0E27012-ICV1.d

Date : 29-MAY-2010 02:30

Client ID: PESTCHKHA

Sample Info: 0E27012-ICV1

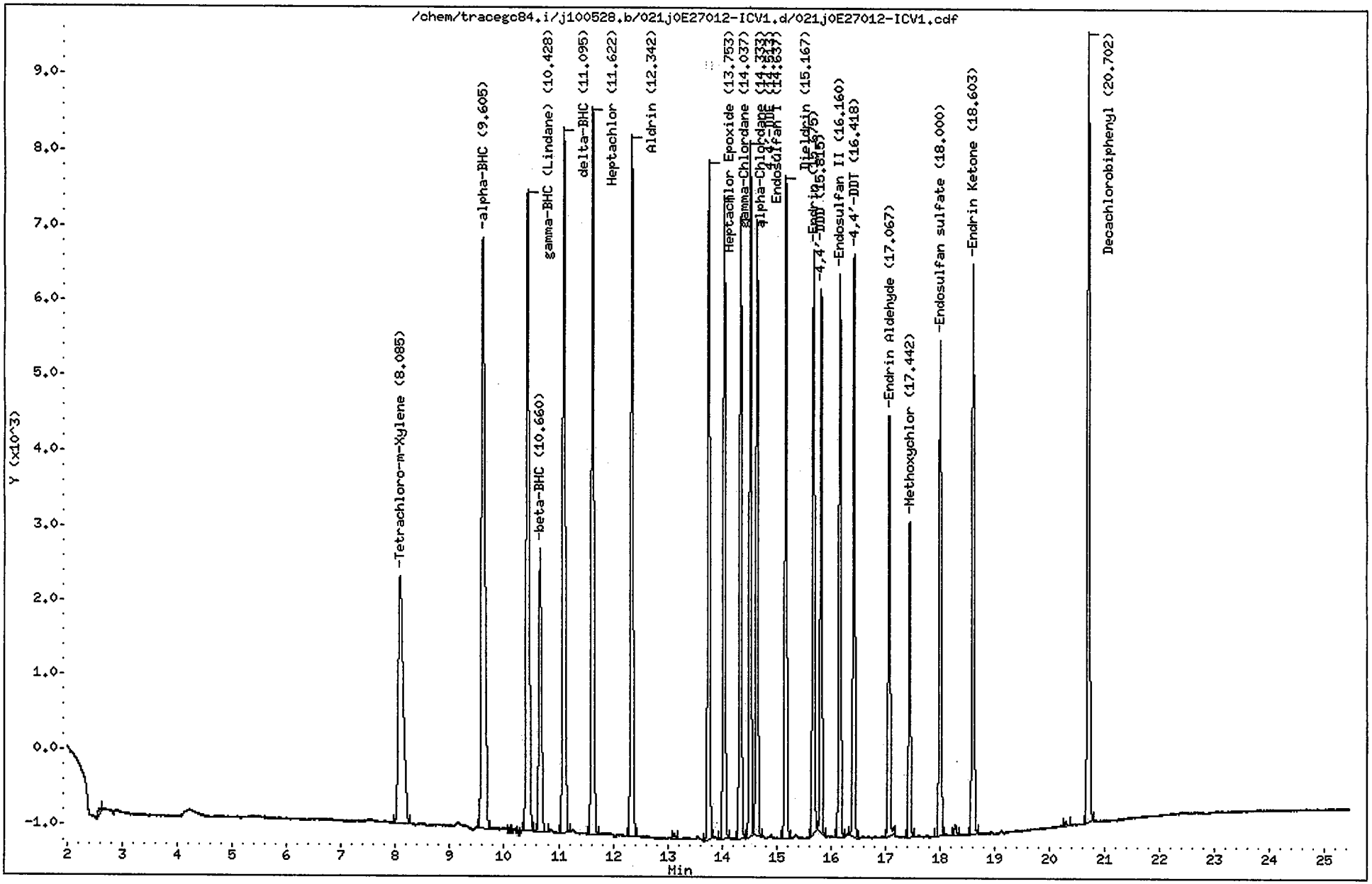
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

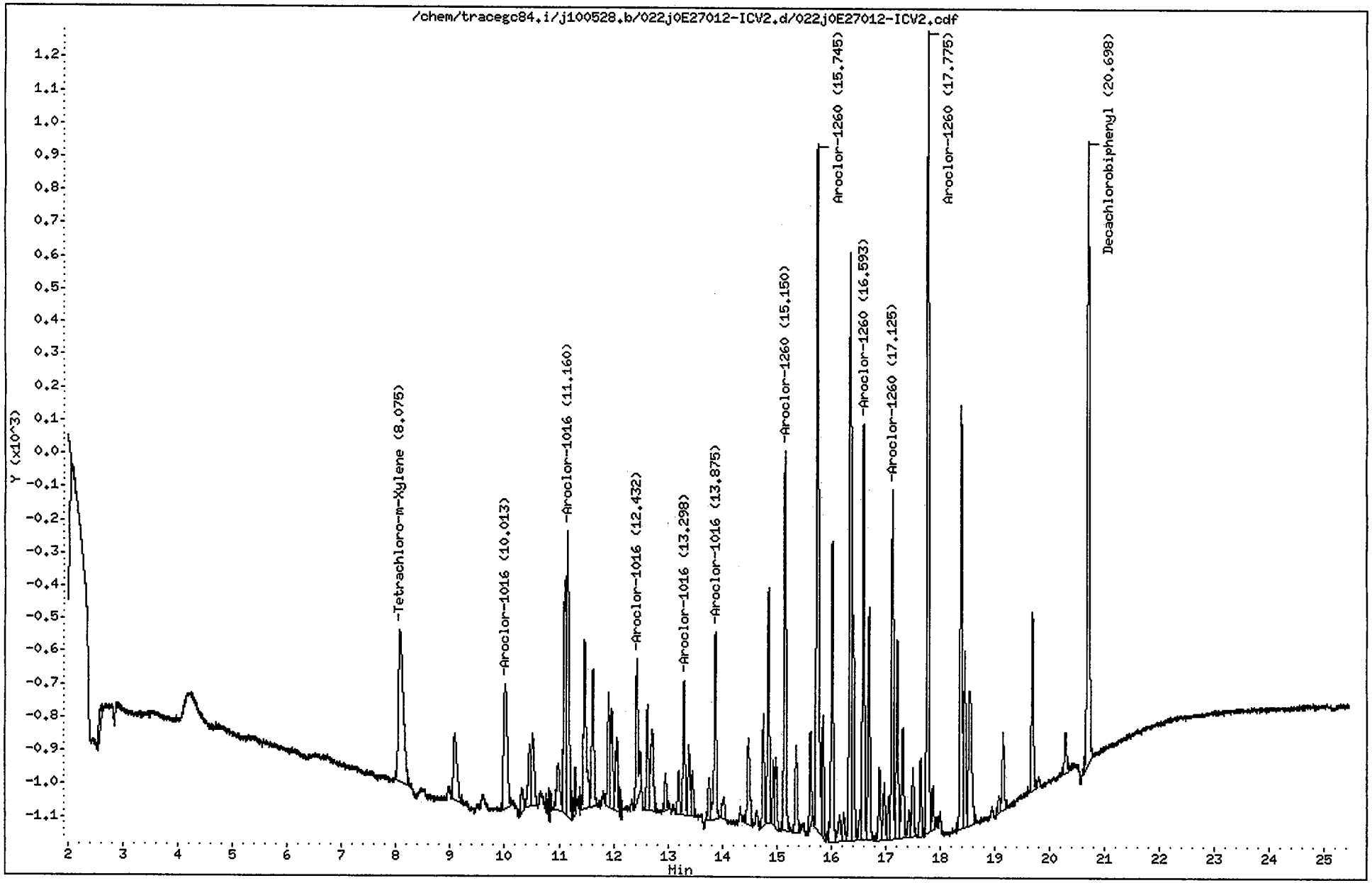
Lab Smp Id : 0E27012-ICV1 Client Smp Id : PESTCHKHA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 29-MAY-2010 02:30 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : INDAchek
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : PESTCHKHA

RT	AREA
1.45	168
1.56	2609
2.59	185
8.09	20838
9.61	33942
10.07	164
10.43	30684
10.66	12917
11.10	30106
11.62	30001
12.34	27087
13.12	178
13.75	24133
14.04	22702
14.33	21763
14.51	22736
14.64	21593
15.17	22758
15.68	19965
15.81	17360
16.16	19654
16.42	18918
17.07	14675
17.44	10202
18.00	17176
18.28	398
18.60	20204
20.29	150
20.70	29005

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/022j0E27012-ICV2.d
Date : 29-MAY-2010 02:59
Client ID: PCBCHKHA
Sample Info: 0E27012-ICV2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 29-MAY-2010 02:59 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : PCBCHKHA

RT	AREA
1.44	148
1.55	28239
2.61	180
8.07	2833
9.09	935
10.01	1774
10.32	262
10.46	595
10.52	780
10.98	605
11.12	1964
11.16	2804
11.31	251
11.47	1783
11.63	1199
11.91	764
11.97	958
12.06	674
12.43	1335
12.63	810
12.72	939
12.95	279
13.20	338
13.30	1039
13.39	557
13.46	354
13.76	334
13.87	1523
14.00	217
14.48	843
14.75	783
14.85	1665
14.94	433
14.98	491
15.15	2903
15.36	718
15.62	648
15.74	5974
15.85	942
16.02	2326
16.16	291
16.23	215
16.35	4828
16.41	1636
16.54	191

AHW
6/1/10

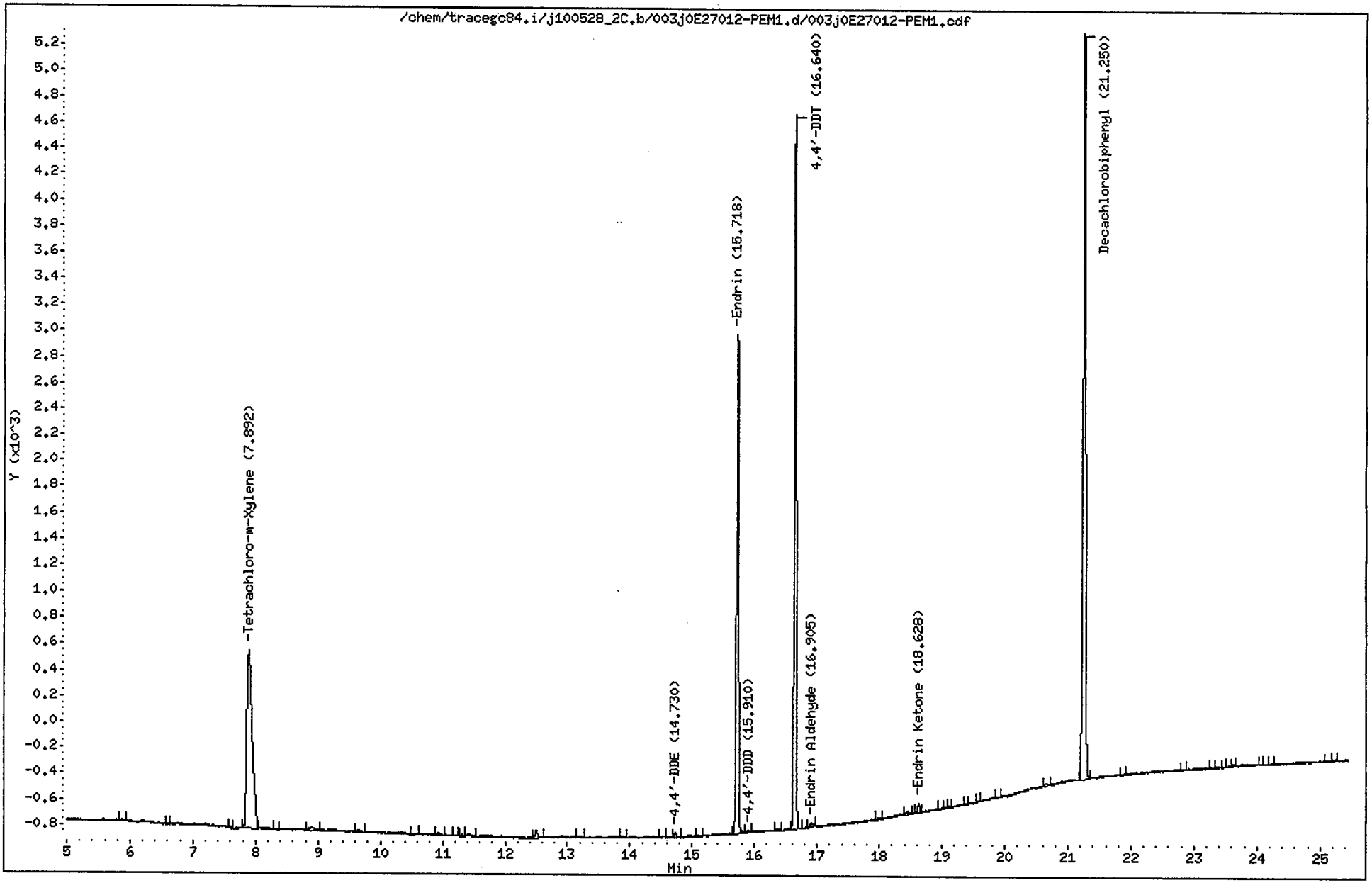
CompuChem

Lab Smp Id : 0E27012-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 29-MAY-2010 02:59 Inst ID :
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : PCBCHKHA

RT	AREA
16.59	3115
16.70	1706
16.89	547
16.98	453
17.06	313
17.13	2630
17.21	1466
17.32	945
17.43	235
17.50	509
17.64	566
17.77	6042
17.87	287
18.39	3239
18.45	1267
18.54	1739
19.07	133
19.15	605
19.68	1320
20.29	320
20.70	5181

Data File: /chem/tracegc84.i/j100528_2C.b/003j0E27012-PEM1.d
Date : 28-MAY-2010 17:49
Client ID: PEMHA
Sample Info: 0E27012-PEM1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-PEM1 Client Smp Id : PEMHA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 28-MAY-2010 17:49 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.33			46								
0.39			31								
1.04			46								
1.40			153								
1.54			18183								
1.87			12847								
2.51			425								
2.64			78								
3.38			29								
3.43			32								
3.47			85								
4.40			27								
5.87			29								
6.60			22								
7.59			38								
7.89	7.82	7.96	8163	416798	Tetrachloro-m-Xylene	0.019585	0.019585		98.9	43 - 135	
8.30			22								
8.90			131								
9.64			83								
10.50			31								
10.92			73								
11.19			23								
11.32			29								
11.42			65								
12.50			174								
13.20			44								
13.91			43								
14.52			32								
14.73	14.67	14.81	94	468602	4,4'-DDE	0.000202	0.000202	0.020000			J
15.13			32								
15.72	15.65	15.79	8924	408649	Endrin	0.021839	0.021839	0.020000			
15.91	15.91	16.05	31	340626	4,4'-DDD	0.000090	0.000090	0.020000			J
16.35			38								
16.64	16.57	16.71	11745	405929	4,4'-DDT	0.028933	0.028933	0.020000			
16.90	16.83	16.97	101	316985	Endrin Aldehyde	0.000317	0.000317	0.020000			J
18.02			40								
18.43			82								

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-PEM1 Client Smp Id : PEMHA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 28-MAY-2010 17:49 Inst ID :
Operator : System
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

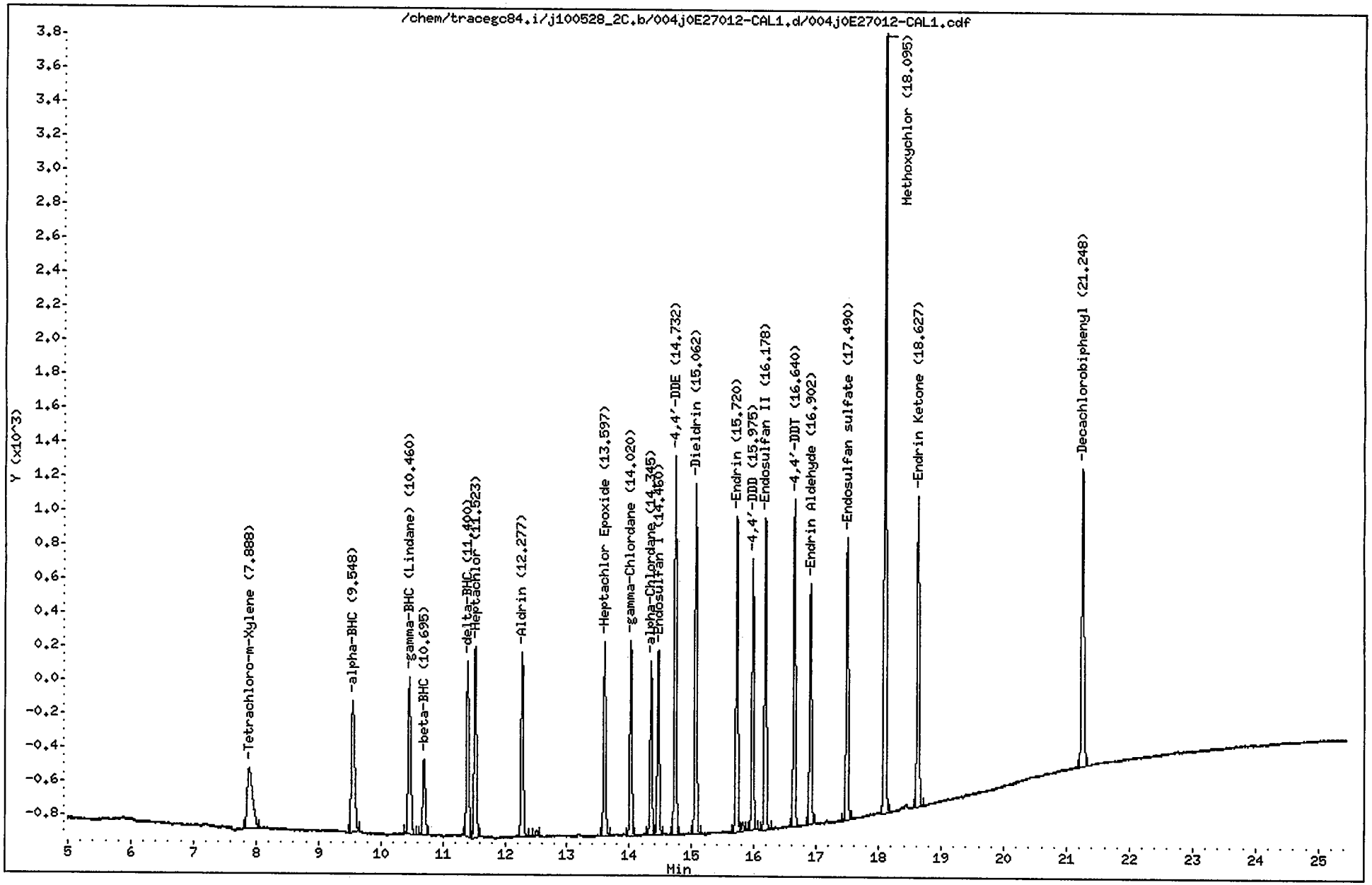
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
18.63	18.56 18.70	175	419519	Endrin Ketone	0.000416	0.000416	0.020000			J
19.02		24								
19.11		24								
19.38		24								
19.59		21								
19.89		23								
20.65		75								
21.25	21.18 21.32	15537	406698	Decachlorobiphenyl	0.038202	0.038202		96.5	43 - 144	
21.86		24								
22.82		29								
23.27		32								
23.47		21								
23.61		22								
24.05		21								
24.23		24								
25.12		27								
25.21		34								

Data File: /chem/tracegc84.i/j100528_2C.b/004j0E27012-CAL1.d
Date : 28-MAY-2010 18:18
Client ID: INDC1HA
Sample Info: 0E27012-CAL1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

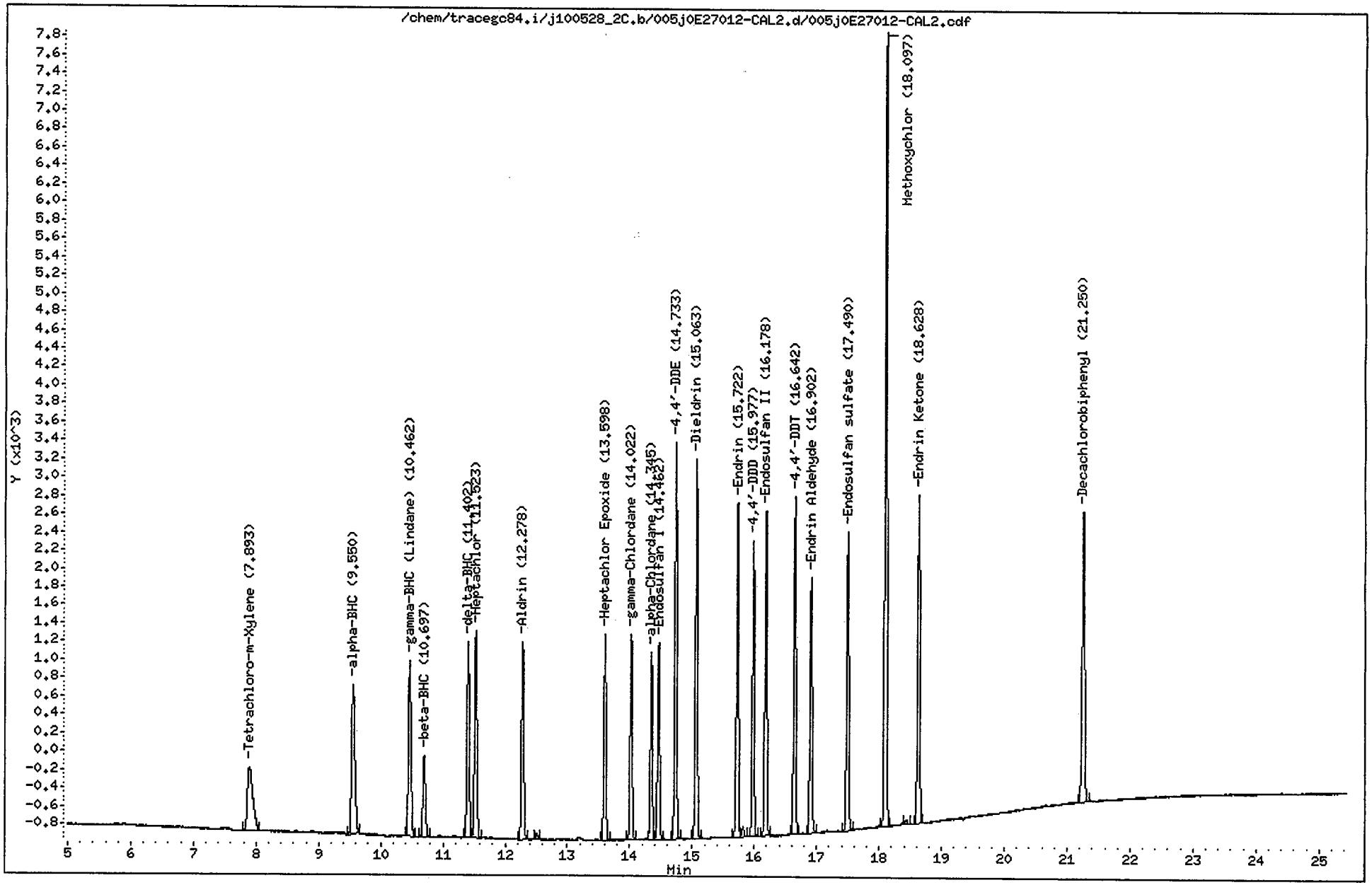
Lab Smp Id : 0E27012-CAL1 Client Smp Id : INDC1HA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 28-MAY-2010 18:18 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC1HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			166382					
7.89	7.82	7.96	2147	416798	Tetrachloro-m-Xylene	0.005000	429200	
9.55	9.48	9.62	2811	607758	alpha-BHC	0.005000	562000	
10.46	10.39	10.53	2794	585542	gamma-BHC (Lindane)	0.005000	558800	
10.70	10.63	10.77	1258	248610	beta-BHC	0.005000	251400	
11.40	11.33	11.47	2626	551235	delta-BHC	0.005000	525200	
11.52	11.45	11.59	3024	579497	Heptachlor	0.005500	549636	
12.28	12.21	12.35	2716	542192	Aldrin	0.005000	543000	
12.50			97					
13.60	13.53	13.67	2645	511912	Heptachlor Epoxide	0.005000	529000	
14.02	13.95	14.09	2635	513150	gamma-Chlordane	0.005000	526800	
14.34	14.28	14.42	2318	446248	alpha-Chlordane	0.005000	463600	
14.46	14.39	14.53	2487	477982	Endosulfan I	0.005000	497200	
14.73	14.66	14.80	4824	468602	4,4'-DDE	0.010000	482400	
15.06	14.99	15.13	4658	461929	Dieldrin	0.010000	465800	
15.72	15.65	15.79	4218	408649	Endrin	0.010000	421800	
15.82			116					
15.98	15.90	16.04	3337	340626	4,4'-DDD	0.010000	333600	
16.18	16.11	16.25	4221	404930	Endosulfan II	0.010000	422000	
16.64	16.57	16.71	4145	405929	4,4'-DDT	0.010000	414500	
16.90	16.83	16.97	3257	316985	Endrin Aldehyde	0.010000	325700	
17.49	17.42	17.56	3848	366674	Endosulfan sulfate	0.010000	384700	
18.10	18.02	18.16	10091	182916	Methoxychlor	0.050000	201820	
18.63	18.56	18.70	4349	419519	Endrin Ketone	0.010000	434900	
21.25	21.18	21.32	4660	406698	Decachlorobiphenyl	0.010000	466000	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/005j0E27012-CAL2.d
Date : 28-MAY-2010 18:47
Client ID: INDC2HA
Sample Info: 0E27012-CAL2
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

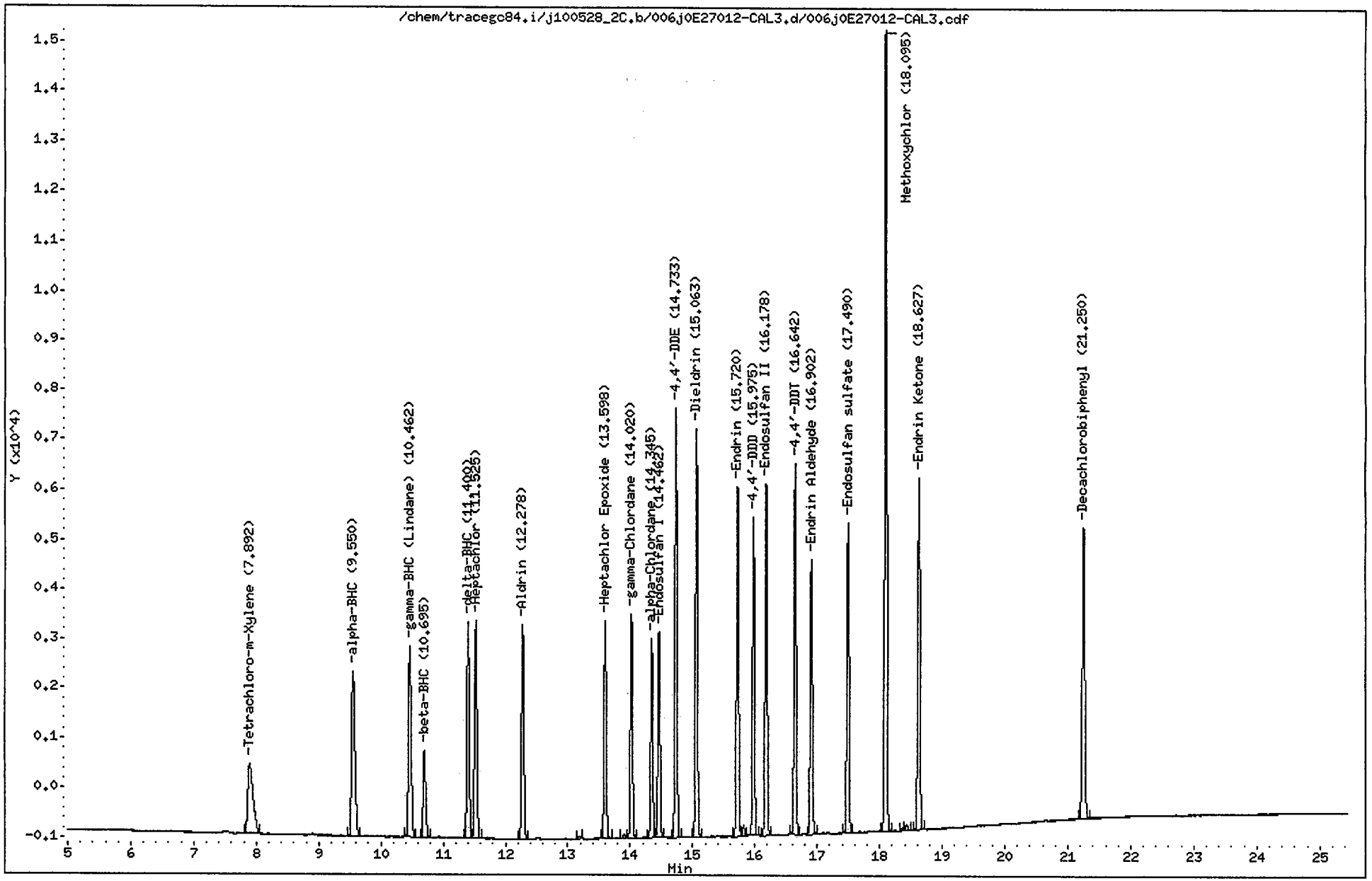
Lab Smp Id : 0E27012-CAL2 Client Smp Id : INDC2HA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 28-MAY-2010 18:47 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC2HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53			2120					
2.52			304					
7.89	7.82	7.96	4247	416798	Tetrachloro-m-Xylene	0.010000	424600	
9.55	9.48	9.62	5894	607758	alpha-BHC	0.010000	589300	
10.46	10.39	10.53	5716	585542	gamma-BHC (Lindane)	0.010000	571500	
10.70	10.63	10.77	2564	248610	beta-BHC	0.010000	256400	
11.40	11.33	11.47	5349	551235	delta-BHC	0.010000	534800	
11.52	11.45	11.59	5947	579497	Heptachlor	0.010000	594700	
12.28	12.21	12.35	5435	542192	Aldrin	0.010000	543500	
12.50			161					
13.60	13.53	13.67	5194	511912	Heptachlor Epoxide	0.010000	519400	
14.02	13.95	14.09	5210	513150	gamma-Chlordane	0.010000	521000	
14.34	14.28	14.42	4548	446248	alpha-Chlordane	0.010000	454800	
14.46	14.39	14.53	4888	477982	Endosulfan I	0.010000	488700	
14.73	14.66	14.80	9552	468602	4,4'-DDE	0.020000	477550	
15.06	14.99	15.13	9337	461929	Dieldrin	0.020000	466850	
15.72	15.65	15.79	8306	408649	Endrin	0.020000	415300	
15.82			244					
15.98	15.90	16.04	6800	340626	4,4'-DDD	0.020000	340000	
16.18	16.11	16.25	8219	404930	Endosulfan II	0.020000	410950	
16.64	16.57	16.71	8173	405929	4,4'-DDT	0.020000	408650	
16.90	16.83	16.97	6539	316985	Endrin Aldehyde	0.020000	326950	
17.49	17.42	17.56	7594	366674	Endosulfan sulfate	0.020000	379650	
18.10	18.02	18.16	19317	182916	Methoxychlor	0.100000	193160	
18.43			117					
18.63	18.56	18.70	8591	419519	Endrin Ketone	0.020000	429550	
21.25	21.18	21.32	8657	406698	Decachlorobiphenyl	0.020000	432800	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/006j0E27012-CAL3.d
Date : 28-MAY-2010 19:16
Client ID: INDC3HA
Sample Info: 0E27012-CAL3
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL3 Client Smp Id : INDC3HA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 28-MAY-2010 19:16 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			9200					
7.89	7.82	7.96	8217	416798	Tetrachloro-m-Xylene	0.020000	410850	
9.55	9.48	9.62	12016	607758	alpha-BHC	0.020000	600750	
10.46	10.39	10.53	11630	585542	gamma-BHC (Lindane)	0.020000	581500	
10.70	10.63	10.77	4934	248610	beta-BHC	0.020000	246700	
11.40	11.33	11.47	10892	551235	delta-BHC	0.020000	544550	
11.52	11.45	11.59	11696	579497	Heptachlor	0.020000	584800	
12.28	12.21	12.35	10756	542192	Aldrin	0.020000	537750	
13.19			100					
13.60	13.53	13.67	10199	511912	Heptachlor Epoxide	0.020000	509950	
13.90			176					
14.02	13.95	14.09	10171	513150	gamma-Chlordane	0.020000	508500	
14.34	14.28	14.42	8836	446248	alpha-Chlordane	0.020000	441750	
14.46	14.39	14.53	9497	477982	Endosulfan I	0.020000	474850	
14.73	14.66	14.80	18602	468602	4,4'-DDE	0.040000	465050	
15.06	14.99	15.13	18401	461929	Dieldrin	0.040000	460025	
15.72	15.65	15.79	16199	408649	Endrin	0.040000	404950	
15.82			464					
15.98	15.90	16.04	13584	340626	4,4'-DDD	0.040000	339575	
16.18	16.11	16.25	16125	404930	Endosulfan II	0.040000	403100	
16.64	16.57	16.71	16039	405929	4,4'-DDT	0.040000	400975	
16.90	16.83	16.97	12919	316985	Endrin Aldehyde	0.040000	322975	
17.49	17.42	17.56	14549	366674	Endosulfan sulfate	0.040000	363725	
18.10	18.02	18.16	36356	182916	Methoxychlor	0.200000	181780	
18.37			120					
18.44			273					
18.63	18.56	18.70	16766	419519	Endrin Ketone	0.040000	419150	
21.25	21.18	21.32	16045	406698	Decachlorobiphenyl	0.040000	401125	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/007j0E27012-CAL4.d

Date : 28-MAY-2010 19:45

Client ID: INDC4HA

Sample Info: 0E27012-CAL4

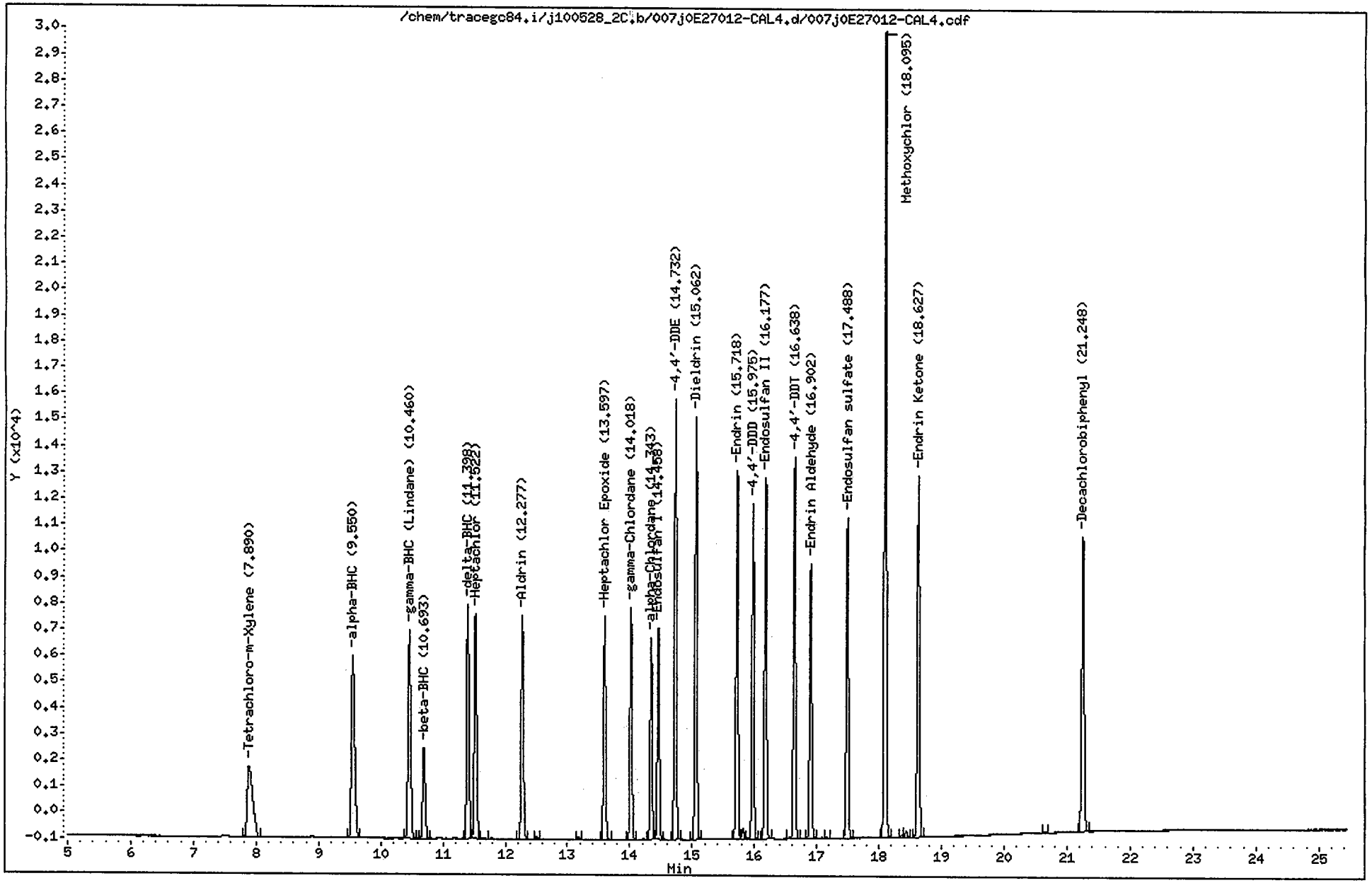
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL4 Client Smp Id : INDC4HA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 28-MAY-2010 19:45 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC4HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53			1592					
1.89			111					
7.89	7.82	7.96	16462	416798	Tetrachloro-m-Xylene	0.040000	411550	
9.55	9.48	9.62	25250	607758	alpha-BHC	0.040000	631250	
10.46	10.39	10.53	24030	585542	gamma-BHC (Lindane)	0.040000	600750	
10.69	10.63	10.77	9831	248610	beta-BHC	0.040000	245775	
11.40	11.33	11.47	22708	551235	delta-BHC	0.040000	567700	
11.52	11.45	11.59	23390	579497	Heptachlor	0.040000	584750	
11.65			96					
12.28	12.21	12.35	21683	542192	Aldrin	0.040000	542075	
12.51			211					
13.18			211					
13.60	13.53	13.67	20154	511912	Heptachlor Epoxide	0.040000	503825	
14.02	13.95	14.09	20242	513150	gamma-Chlordane	0.040000	506025	
14.34	14.28	14.42	17517	446248	alpha-Chlordane	0.040000	437925	
14.46	14.39	14.53	18759	477982	Endosulfan I	0.040000	468950	
14.73	14.66	14.80	36881	468602	4,4'-DDE	0.080000	461000	
15.06	14.99	15.13	36815	461929	Dieldrin	0.080000	460187	
15.72	15.65	15.79	32210	408649	Endrin	0.080000	402613	
15.81			989					
15.90			118					
15.98	15.90	16.04	27530	340626	4,4'-DDD	0.080000	344113	
16.18	16.11	16.25	31797	404930	Endosulfan II	0.080000	397450	
16.64	16.57	16.71	32317	405929	4,4'-DDT	0.080000	403963	
16.90	16.83	16.97	24671	316985	Endrin Aldehyde	0.080000	308375	
17.16			112					
17.49	17.42	17.56	28535	366674	Endosulfan sulfate	0.080000	356675	
18.10	18.02	18.16	69200	182916	Methoxychlor	0.400000	172997	
18.37			235					
18.43			514					
18.63	18.56	18.70	32900	419519	Endrin Ketone	0.080000	411237	
20.65			108					
21.25	21.18	21.32	30128	406698	Decachlorobiphenyl	0.080000	376587	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/008j0E27012-CAL5.d

Date : 28-MAY-2010 20:14

Client ID: INDC5HA

Sample Info: 0E27012-CAL5

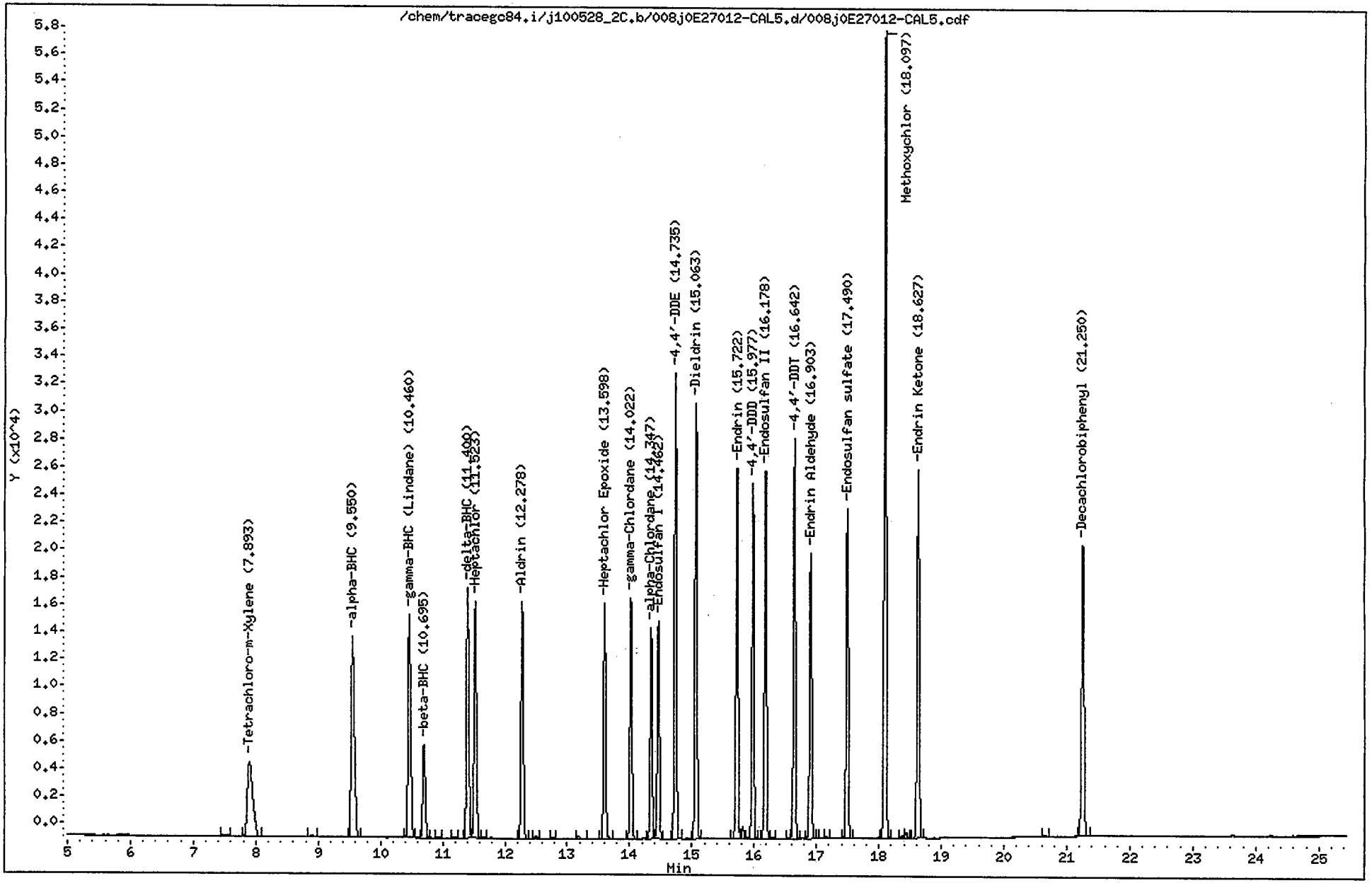
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL5 Client Smp Id : INDC5HA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 28-MAY-2010 20:14 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC5HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54			2486					
2.53			230					
7.51			428					
7.89	7.82	7.96	32623	416798	Tetrachloro-m-Xylene	0.080000	407787	
8.90			328					
9.55	9.48	9.62	52439	607758	alpha-BHC	0.080000	655487	
10.46	10.39	10.53	49213	585542	gamma-BHC (Lindane)	0.080000	615163	
10.70	10.63	10.77	19423	248610	beta-BHC	0.080000	242775	
10.93			190					
11.19			147					
11.40	11.33	11.47	46715	551235	delta-BHC	0.080000	583925	
11.52	11.45	11.59	46688	579497	Heptachlor	0.080000	583600	
11.65			184					
12.28	12.21	12.35	43572	542192	Aldrin	0.080000	544637	
12.50			437					
12.77			133					
13.19			519					
13.60	13.53	13.67	39791	511912	Heptachlor Epoxide	0.080000	497387	
14.02	13.95	14.09	40275	513150	gamma-Chlordane	0.080000	503425	
14.35	14.28	14.42	34653	446248	alpha-Chlordane	0.080000	433163	
14.46	14.39	14.53	36817	477982	Endosulfan I	0.080000	460213	
14.74	14.66	14.80	73122	468602	4,4'-DDE	0.160000	457013	
15.06	14.99	15.13	73085	461929	Dieldrin	0.160000	456781	
15.72	15.65	15.79	63773	408649	Endrin	0.160000	398581	
15.82			1952					
15.91			219					
15.98	15.90	16.04	55335	340626	4,4'-DDD	0.160000	345844	
16.18	16.11	16.25	62585	404930	Endosulfan II	0.160000	391150	
16.30			151					
16.58			211					
16.64	16.57	16.71	64250	405929	4,4'-DDT	0.160000	401556	
16.90	16.83	16.97	48148	316985	Endrin Aldehyde	0.160000	300925	
17.09			129					
17.16			257					
17.49	17.42	17.56	55780	366674	Endosulfan sulfate	0.160000	348619	
18.10	18.02	18.16	131857	182916	Methoxychlor	0.800000	164821	
18.37			461					
18.43			964					
18.63	18.56	18.70	64442	419519	Endrin Ketone	0.160000	402756	
20.65			203					
21.25	21.18	21.32	57117	406698	Decachlorobiphenyl	0.160000	356975	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/009j0E27012-ARC1.d

Date : 28-MAY-2010 20:43

Client ID: TOXAPH3HA

Instrument: tracegc84.i

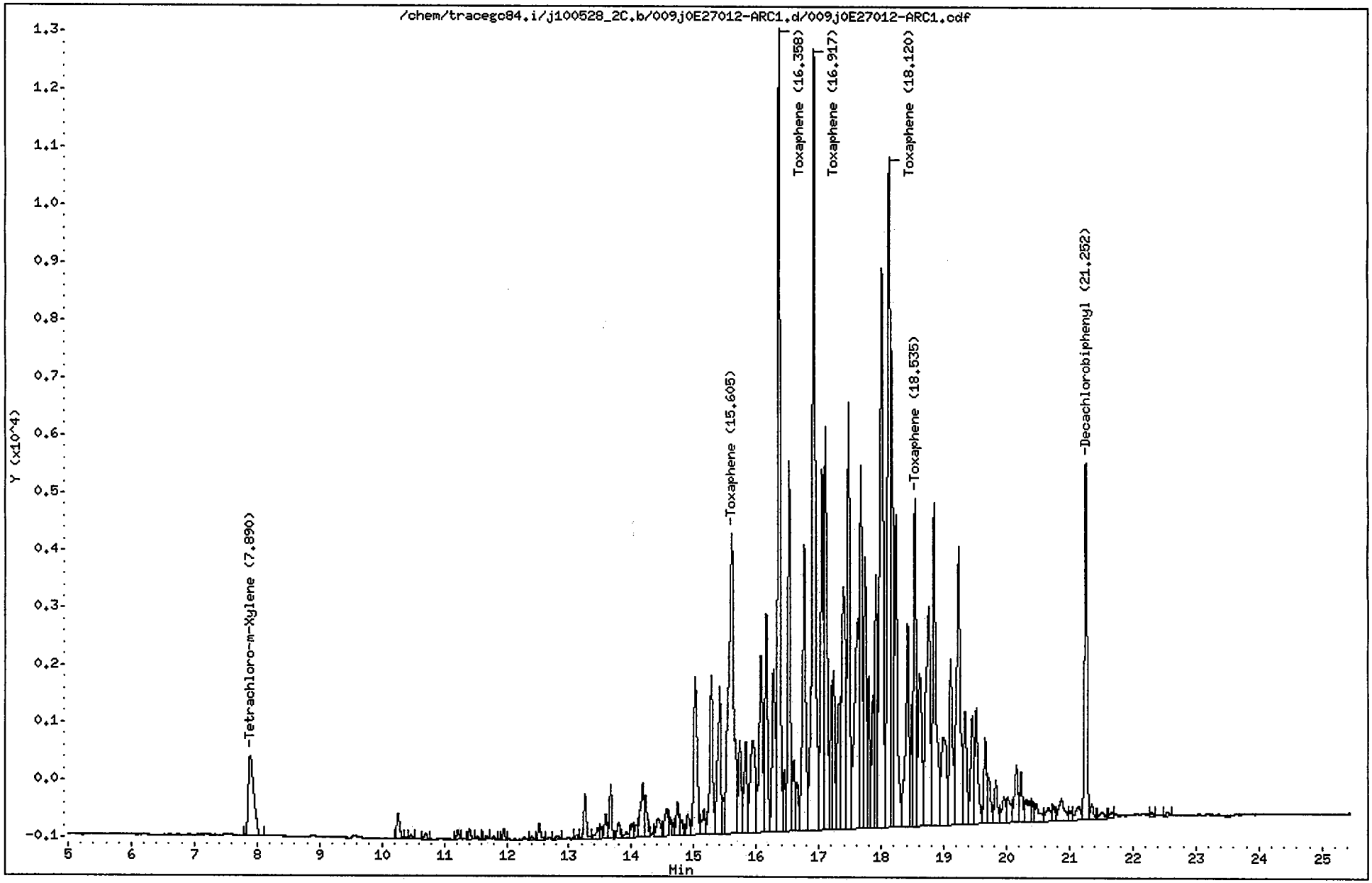
Sample Info: 0E27012-ARC1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54		7141					
1.88		103					
7.89	7.82 7.96	8419	416798	Tetrachloro-m-Xylene	0.020000	410850	
10.26		1459					
10.46		208					
10.70		299					
11.22		459					
11.40		512					
11.53		145					
11.68		167					
11.80		188					
11.95		441					
12.41		151					
12.52		803					
12.82		207					
13.12		237					
13.26		2432					
13.46		686					
13.51		498					
13.58		1233					
13.67		2283					
13.79		843					
13.93		392					
14.00		788					
14.08		617					
14.18		3565					
14.22		2095					
14.43		1563					
14.57		1798					
14.68		525					
14.74		1804					
14.80		660					
14.90		1187					
15.02		10695					
15.16		1578					
15.28		9239					
15.41		9242					
15.47		1294					
15.60	15.54 15.68	30398	15199	Toxaphene Peak 1	2.000000	15199	
15.73		5274					
15.83		5640					
15.94		9231					

2M

Run 6/1/10

AHW 6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.07		11864					
16.16		11950					
16.27		9340					
16.36	16.29 16.43	37653	18826	Toxaphene Peak 2	2.000000	18827	
16.45		2790					
16.52		17354					
16.59		3610					
16.65		2401					
16.76		17971					
16.92	16.85 16.99	46567	23283	Toxaphene Peak 3	2.000000	23283	
17.05		17007					
17.10		23225					
17.20		5819					
17.23		6986					
17.32		8912					
17.39		17609					
17.47		20639					
17.62		17534					
17.67		17677					
17.74		12771					
17.79		6644					
17.86		5732					
17.91		11742					
18.00		38256					
18.12	18.05 18.19	38153	19076	Toxaphene Peak 4	2.000000	19077	
18.16		19458					
18.23		17062					
18.42		13115					
18.49		4584					
18.54	18.47 18.61	15591	7795	Toxaphene Peak 5	2.000000	7795.000	
18.61		11386					
18.75		18785					
18.84		19732					
18.99		9439					
19.11		9966					
19.23		20826					
19.34		6962					
19.45		6510					
19.51		6983					
19.66		4758					
19.72		2518					
19.82		2516					

ZM

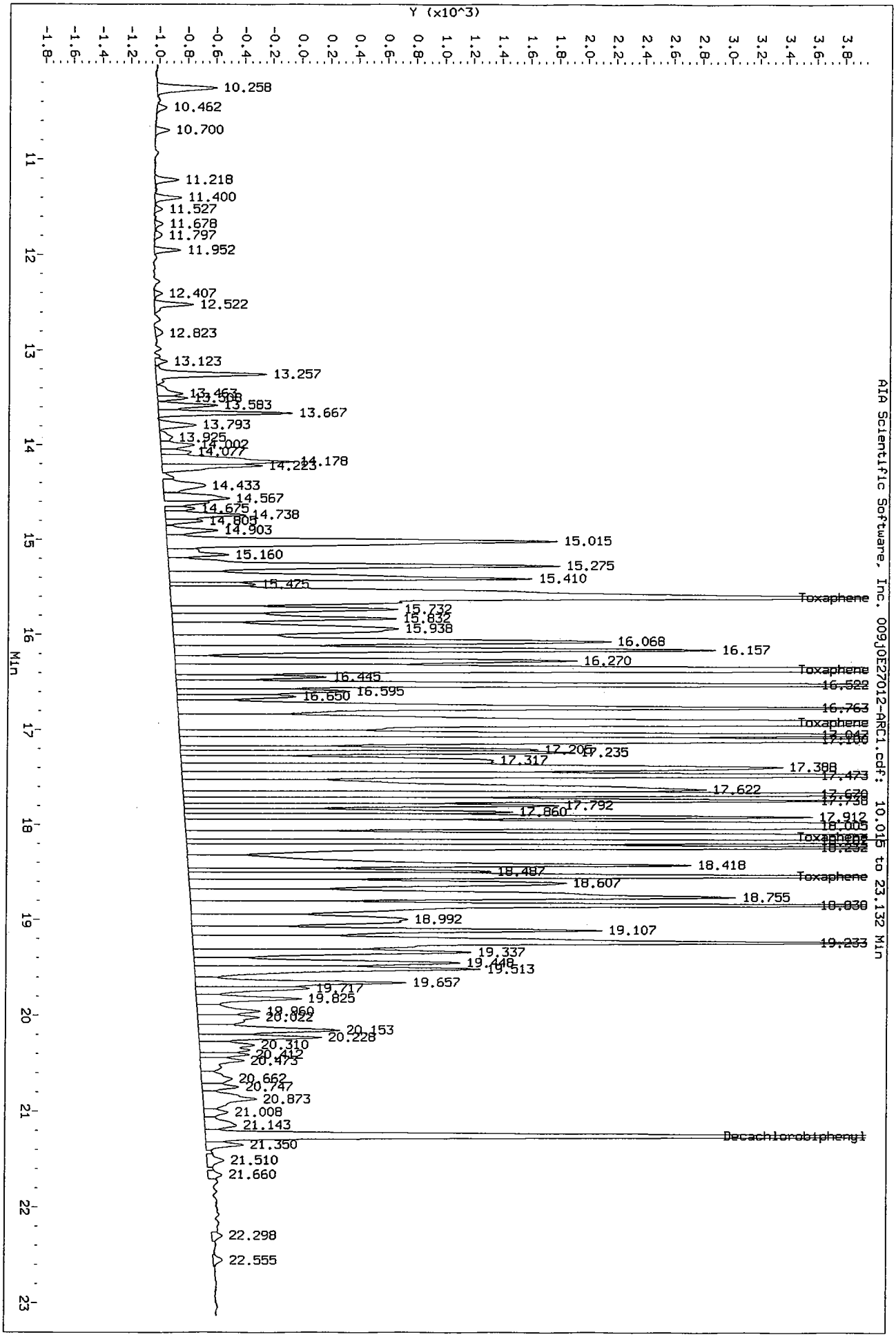
pm 6/1/10

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
19.96		1913					
20.02		2121					
20.15		3656					
20.23		2488					
20.31		2130					
20.41		943					
20.47		1540					
20.66		1218					
20.75		865					
20.87		2317					
21.01		628					
21.14		1203					
21.25	21.18 21.32	17006	406698	Decachlorobiphenyl	0.040000	401125	
21.35		825					
21.51		591					
21.66		386					
22.30		288					
22.55		264					


Data File: /chem/tracegc84.i/j100528_2C.b/009j0E27012-ARC1.d/009j0E27012-ARC1.cdf
Injection Date: 28-MAY-2010 20:43
Instrument: tracegc84.i
Client Sample ID: TOXAPHJHA
Y (x10^3)
Min
AIA Scientific Software, Inc. 009j0E27012-ARC1.cdf: 10.015 to 23.132 Min
10.258
10.462
10.700
11.218
11.400
11.527
11.678
11.797
11.952
12.407
12.522
12.823
13.123
13.257
13.583
13.667
13.793
13.925
14.077
14.178
14.223
14.433
14.567
14.675
14.738
14.805
14.903
15.015
15.160
15.275
15.410
15.475
Toxaphene
15.732
15.938
16.068
16.157
16.270
Toxaphene
16.445
16.522
16.595
16.650
16.763
Toxaphene
17.205
17.235
17.317
17.388
17.473
17.622
17.792
17.860
17.912
Toxaphene
18.418
18.487
Toxaphene
18.607
18.755
18.992
19.107
19.233
19.337
19.448
19.513
19.657
19.717
19.825
20.022
20.153
20.228
20.310
20.412
20.475
20.662
20.747
20.873
21.008
21.143
Decachlorobiphenyl
21.350
21.510
21.660
22.298
22.555

Data File: /chem/tracegc84.i/j100528_2C.b/010j0E27012-ARC2.d

Date : 28-MAY-2010 21:11

Client ID: CHLORO3HA

Instrument: tracegc84.i

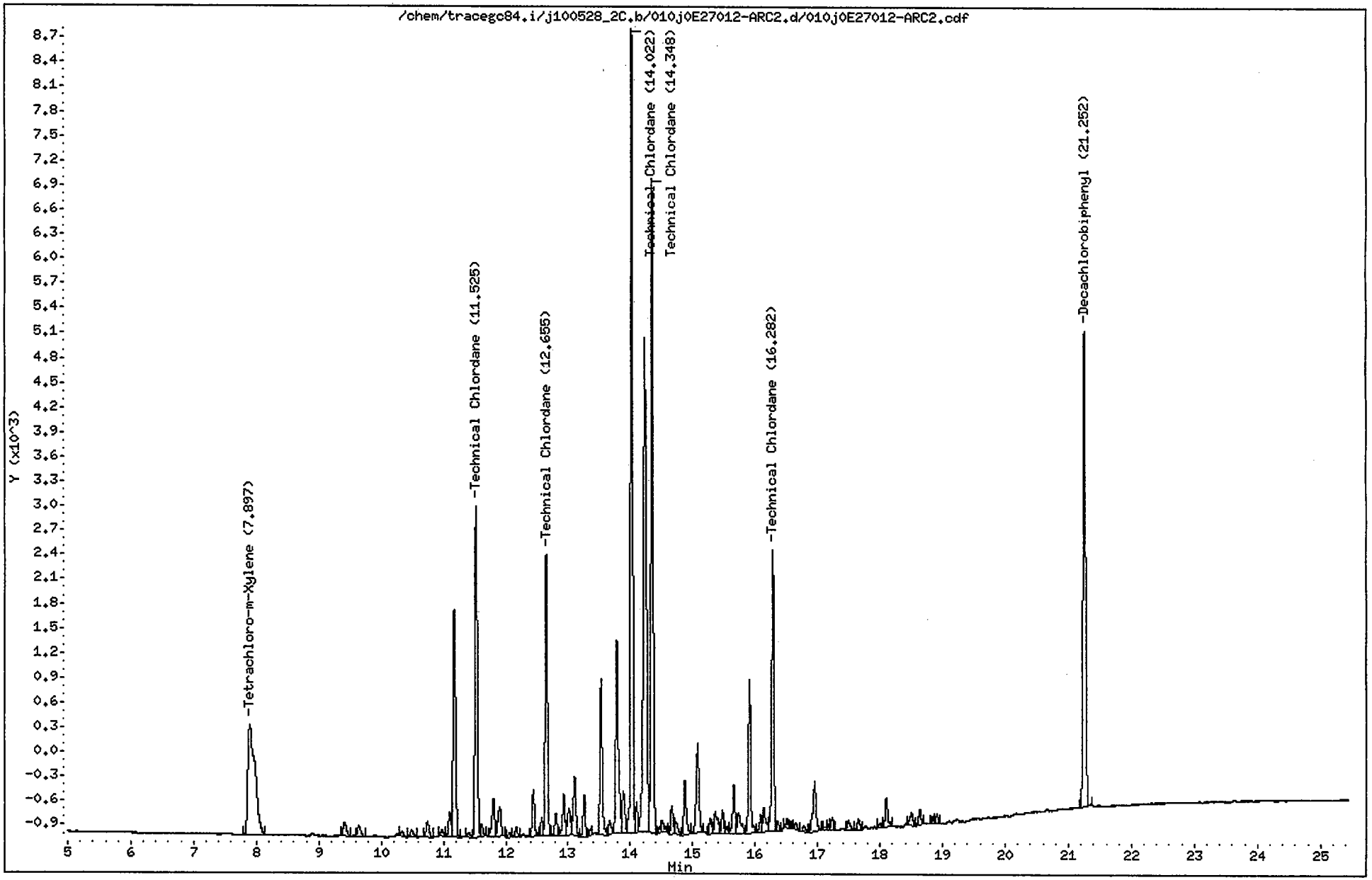
Sample Info: 0E27012-ARC2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 28-MAY-2010 21:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52		1208					
7.90	7.82 7.96	10799	416798	Tetrachloro-m-Xylene	0.020000	410850	
9.41		627					
9.63		460					
10.33		192					
10.49		291					
10.74		612					
10.98		235					
11.10		779					
11.18		7819					
11.40		188					
11.52	11.46 11.60	10759	26895	TechnicalChlordane Peak 1	0.400000	26895	
11.62		380					
11.80		1393					
11.90		1280					
12.06		152					
12.17		354					
12.44		1488					
12.58		530					
12.66	12.58 12.72	8347	20865	TechnicalChlordane Peak 2	0.400000	20865	
12.80		718					
12.93		1360					
13.02		1016					
13.11		2155					
13.26		1194					
13.36		184					
13.53		4593					
13.67		449					
13.78		6784					
13.89		1588					
14.02	13.95 14.09	23201	58000	TechnicalChlordane Peak 3	0.400000	58000	
14.10		804					
14.23		20520					
14.35	14.28 14.42	19246	48115	TechnicalChlordane Peak 4	0.400000	48115	
14.47		140					
14.52		390					
14.66		840					
14.73		531					
14.87		1756					
15.08		3297					
15.28		531					
15.36		1061					

AHW
6/1/10

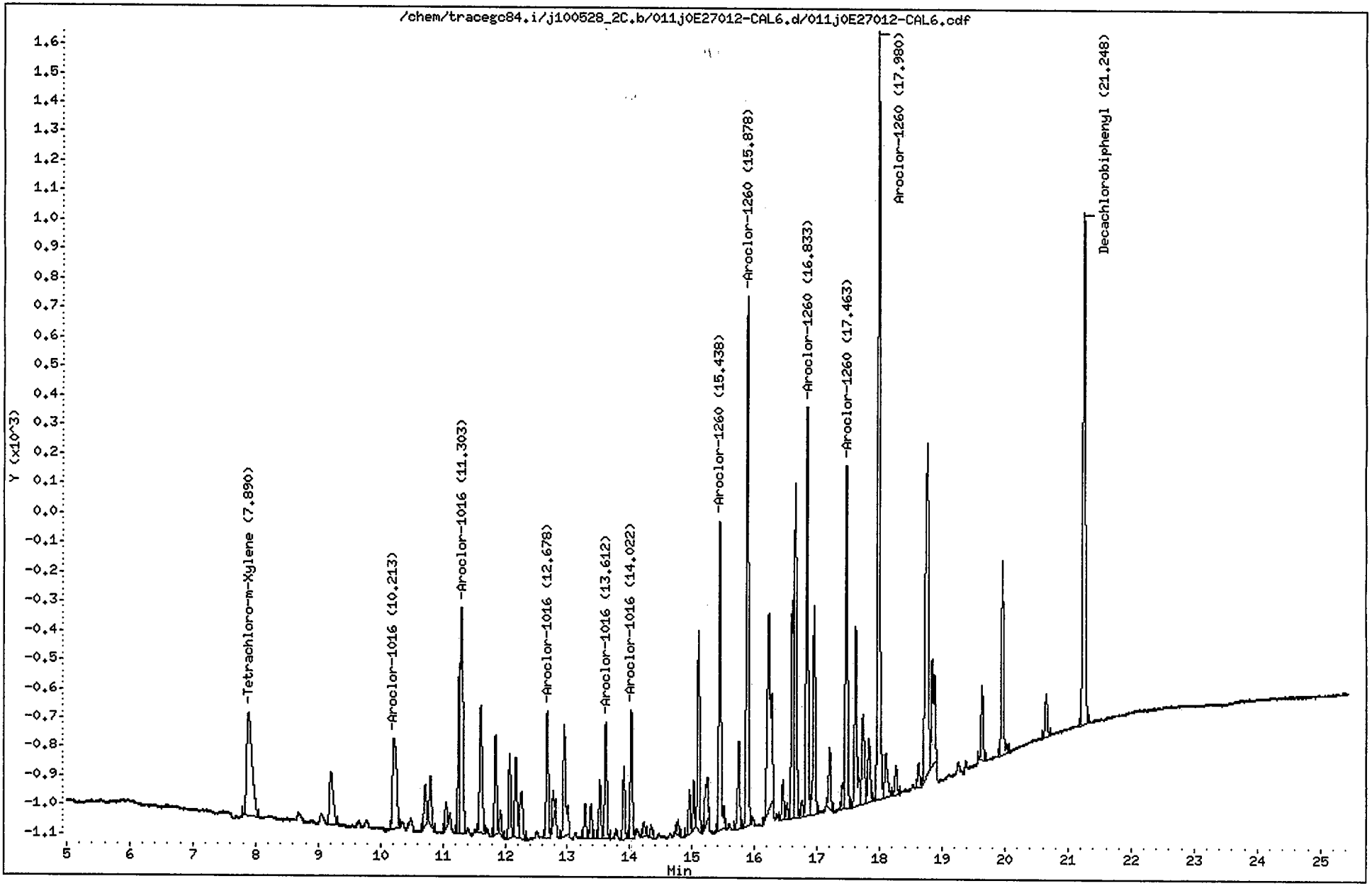
CompuChem

Lab Smp Id : 0E27012-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 28-MAY-2010 21:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.47		663					
15.55		232					
15.65		1543					
15.73		1046					
15.91		4569					
16.09		479					
16.14		918					
16.28	16.21 16.35	8118	20295	TechnicalChlordane Peak 5	0.400000	20295	
16.36		246					
16.51		238					
16.57		147					
16.65		231					
16.78		238					
16.95		2088					
17.11		108					
17.18		157					
17.24		376					
17.49		360					
17.66		357					
18.00		156					
18.10		1006					
18.50		496					
18.64		491					
18.84		214					
18.91		270					
21.25	21.18 21.32	15618	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/011j0E27012-CAL6.d
Date : 28-MAY-2010 21:40
Client ID: AR16601HA
Sample Info: 0E27012-CAL6
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 28-MAY-2010 21:40 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16601HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54			5903					
2.52			95					
7.89	7.82	7.96	2127	416798	Tetrachloro-m-Xylene	0.005000	429200	
9.21			739					
10.21	10.15	10.29	1416	12953	Aroclor-1016 Peak 1	0.100000	14160	
10.72			357					
10.80			453					
11.05			191					
11.27			1078					
11.30	11.24	11.38	2281	19854	Aroclor-1016 Peak 2	0.100000	22810	
11.61			1266					
11.85			807					
11.93			172					
12.07			680					
12.17			716					
12.27			559					
12.68	12.61	12.75	1029	9041	Aroclor-1016 Peak 3	0.100000	10280	
12.77			225					
12.95			1134					
13.28			274					
13.37			255					
13.52			442					
13.61	13.55	13.69	959	8370	Aroclor-1016 Peak 4	0.100000	9590.000	
13.90			548					
14.02	13.96	14.10	995	7947	Aroclor-1016 Peak 5	0.100000	9950.000	
14.23			122					
14.34			101					
14.78			121					
14.95			306					
15.02			339					
15.10			1508					
15.21			533					
15.44	15.37	15.51	2507	21225	Aroclor-1260 Peak 1	0.100000	25070	
15.74			718					
15.88	15.81	15.95	4092	36050	Aroclor-1260 Peak 2	0.100000	40920	
16.23			2808					
16.45			292					
16.52			114					
16.60			1681					
16.64			2978					
16.75			124					
16.83	16.77	16.91	3170	28288	Aroclor-1260 Peak 3	0.100000	31690	

AHW
6/1/10

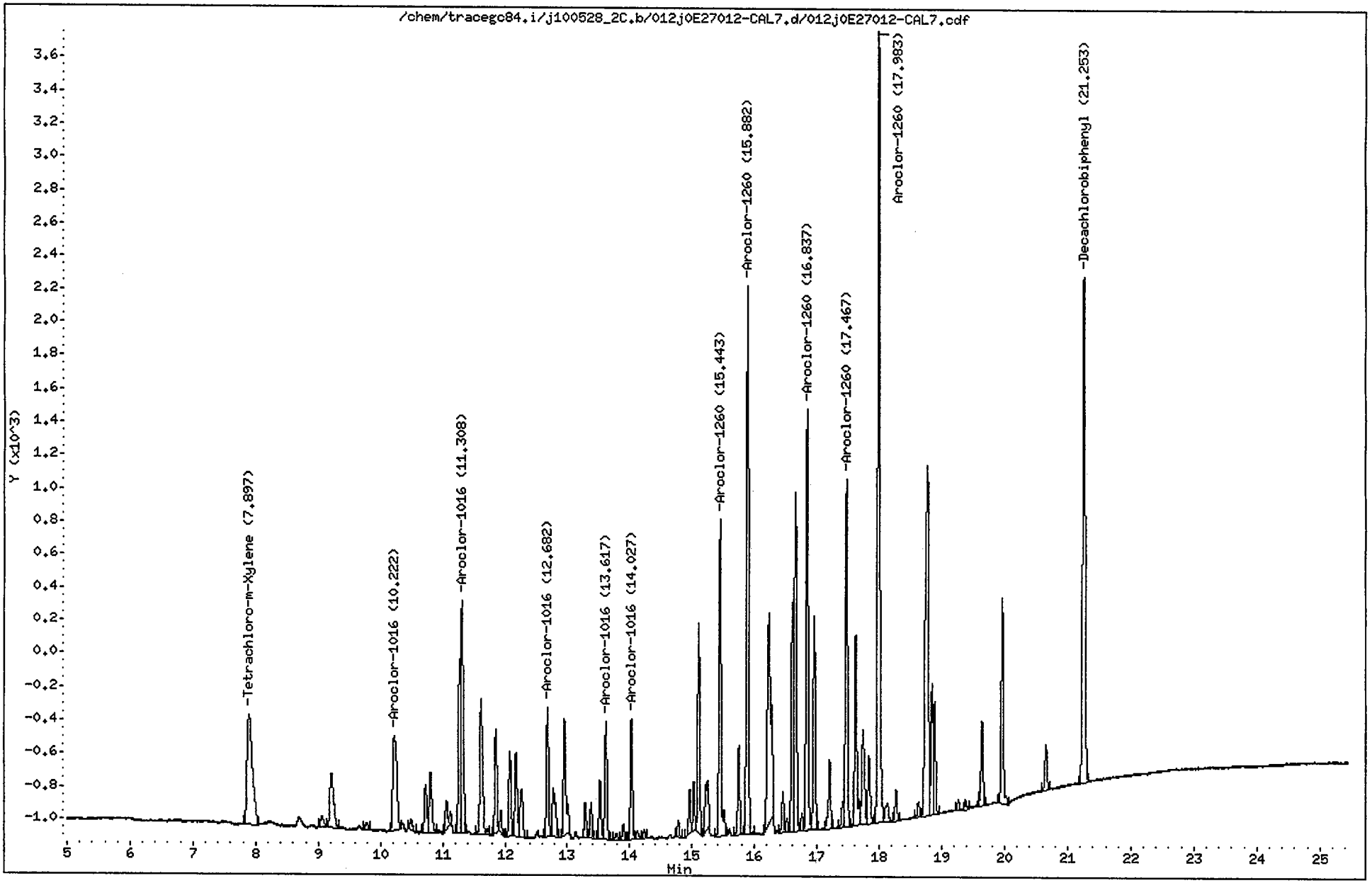
CompuChem

Lab Smp Id : 0E27012-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 28-MAY-2010 21:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16601HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.95		1715					
17.20		482					
17.41		180					
17.46	17.39 17.53	2764	23788	Aroclor-1260 Peak 4	0.100000	27640	
17.61		1601					
17.73		912					
17.82		581					
17.98	17.91 18.05	6255	56438	Aroclor-1260 Peak 5	0.100000	62550	
18.10		488					
18.27		243					
18.62		191					
18.76		3996					
18.84		1325					
19.64		598					
19.95		1582					
20.65		370					
21.25	21.18 21.32	4742	406698	Decachlorobiphenyl	0.010000	466000	

Data File: /chem/tracegc84.i/j100528_2C.b/012j0E27012-CAL7.d
Date : 28-MAY-2010 22:10
Client ID: AR16602HA
Sample Info: 0E27012-CAL7
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 28-MAY-2010 22:10 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16602HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53			5197					
7.90	7.82	7.96	3976	416798	Tetrachloro-m-Xylene	0.010000	424600	
9.06			255					
9.21			1421					
9.78			135					
10.22	10.15	10.29	2618	12953	Aroclor-1016 Peak 1	0.200000	13090	
10.49			218					
10.72			833					
10.80			1107					
11.06			575					
11.27			2129					
11.31	11.24	11.38	4044	19854	Aroclor-1016 Peak 2	0.200000	20215	
11.62			2472					
11.85			1498					
11.93			307					
12.08			1245					
12.18			1317					
12.27			1013					
12.68	12.61	12.75	1838	9041	Aroclor-1016 Peak 3	0.200000	9185.000	
12.78			1063					
12.95			2069					
13.29			484					
13.38			482					
13.52			827					
13.62	13.55	13.69	1742	8370	Aroclor-1016 Peak 4	0.200000	8705.000	
13.79			98					
13.90			231					
14.03	13.96	14.10	1634	7947	Aroclor-1016 Peak 5	0.200000	8165.000	
14.12			140					
14.23			108					
14.78			237					
14.96			572					
15.03			616					
15.10			2759					
15.22			1149					
15.44	15.37	15.51	4680	21225	Aroclor-1260 Peak 1	0.200000	23395	
15.75			1262					
15.88	15.81	15.95	7408	36050	Aroclor-1260 Peak 2	0.200000	37035	
16.23			5252					
16.45			565					
16.52			175					
16.61			3146					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 28-MAY-2010 22:10 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16602HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.65		5306					
16.76		234					
16.84	16.77 16.91	5837	28288	Aroclor-1260 Peak 3	0.200000	29185	
16.95		2954					
17.20		1072					
17.41		323					
17.47	17.39 17.53	4892	23788	Aroclor-1260 Peak 4	0.200000	24460	
17.62		2895					
17.73		1686					
17.83		1098					
17.98	17.91 18.05	11448	56438	Aroclor-1260 Peak 5	0.200000	57240	
18.13		425					
18.27		437					
18.63		228					
18.76		7729					
18.84		1751					
18.88		1479					
19.26		176					
19.38		125					
19.64		1202					
19.96		2994					
20.66		668					
21.25	21.18 21.32	8163	406698	Decachlorobiphenyl	0.020000	432800	

Data File: /chem/tracegc84.i/j100528_2C.b/013j0E27012-CAL8.d

Date : 28-MAY-2010 22:38

Client ID: AR16603HA

Sample Info: 0E27012-CAL8

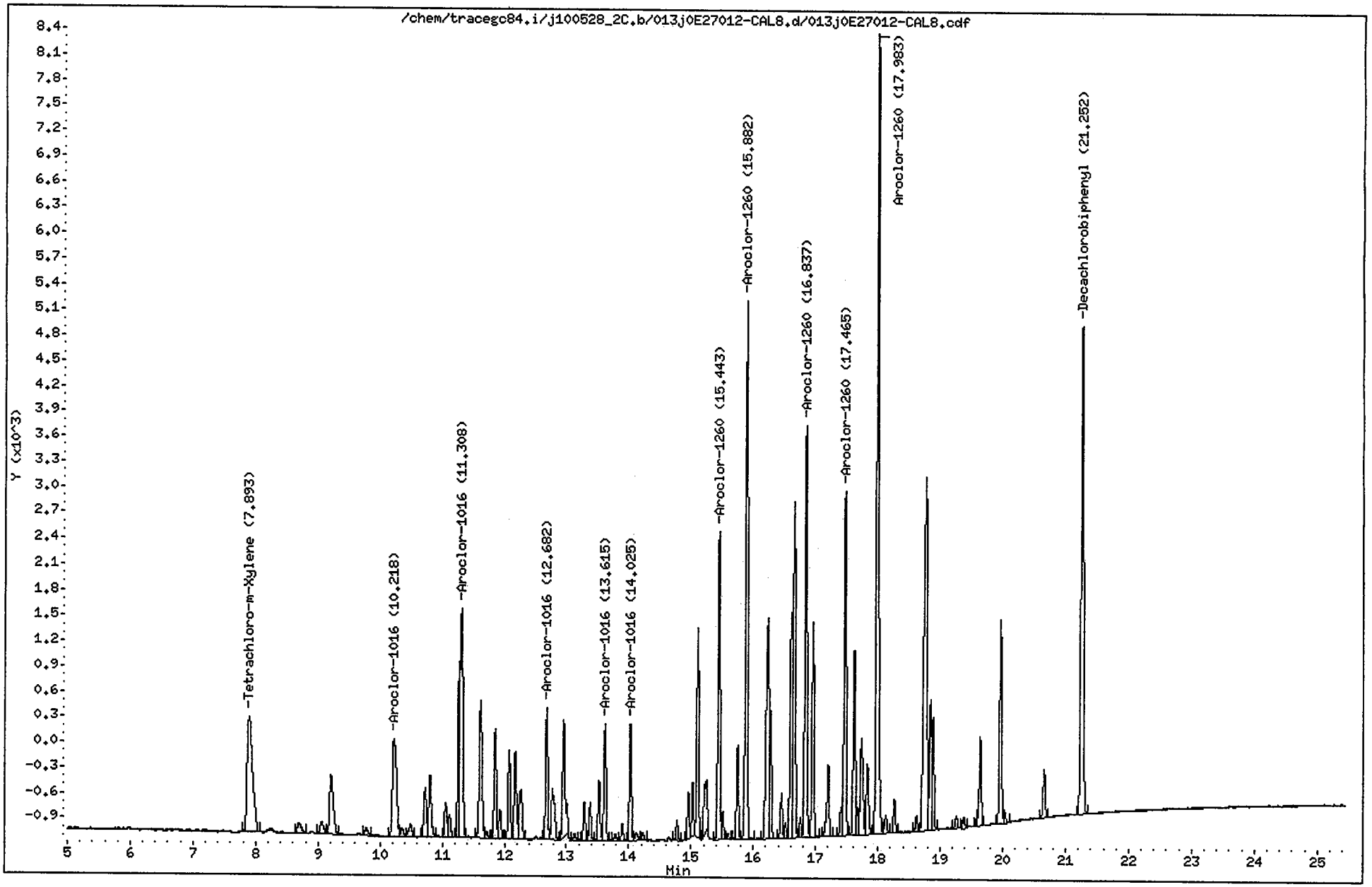
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 28-MAY-2010 22:38 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			12610					
1.78			3220					
1.95			20961					
2.50			93					
7.89	7.82	7.96	8081	416798	Tetrachloro-m-Xylene	0.020000	410850	
8.69			535					
9.06			530					
9.21			2824					
9.78			314					
10.22	10.15	10.29	5286	12953	Aroclor-1016 Peak 1	0.400000	13213	
10.35			291					
10.49			540					
10.72			1664					
10.80			2191					
11.06			1058					
11.12			701					
11.27			4122					
11.31	11.24	11.38	7858	19854	Aroclor-1016 Peak 2	0.400000	19645	
11.62			4885					
11.71			188					
11.85			3237					
11.93			839					
12.08			2525					
12.17			2698					
12.27			2072					
12.68	12.61	12.75	3641	9041	Aroclor-1016 Peak 3	0.400000	9102.500	
12.77			2207					
12.95			4014					
13.13			182					
13.29			1026					
13.38			994					
13.52			1618					
13.62	13.55	13.69	3368	8370	Aroclor-1016 Peak 4	0.400000	8417.500	
13.78			183					
13.89			443					
14.02	13.96	14.10	3112	7947	Aroclor-1016 Peak 5	0.400000	7780.000	
14.12			296					
14.23			207					
14.78			512					
14.96			1176					
15.03			1288					
15.10			5373					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 28-MAY-2010 22:38 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.22		2220					
15.44	15.37 15.51	8271	21225	Aroclor-1260 Peak 1	0.400000	20677	
15.51		684					
15.60		156					
15.74		2506					
15.88	15.81 15.95	14416	36050	Aroclor-1260 Peak 2	0.400000	36037	
16.23		8284					
16.27		3057					
16.45		1181					
16.52		364					
16.60		6302					
16.65		10109					
16.75		487					
16.84	16.77 16.91	11338	28288	Aroclor-1260 Peak 3	0.400000	28345	
16.95		5687					
17.20		2189					
17.41		626					
17.46	17.39 17.53	9484	23788	Aroclor-1260 Peak 4	0.400000	23710	
17.62		5073					
17.68		635					
17.73		3357					
17.83		2191					
17.98	17.91 18.05	22538	56438	Aroclor-1260 Peak 5	0.400000	56345	
18.13		555					
18.27		862					
18.62		374					
18.76		15093					
18.84		3468					
18.88		2867					
19.26		308					
19.38		258					
19.59		172					
19.64		2404					
19.96		5609					
20.04		270					
20.66		1346					
21.25	21.18 21.32	15513	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/014j0E27012-CAL9.d

Date : 28-MAY-2010 23:07

Client ID: AR16604HA

Sample Info: 0E27012-CAL9

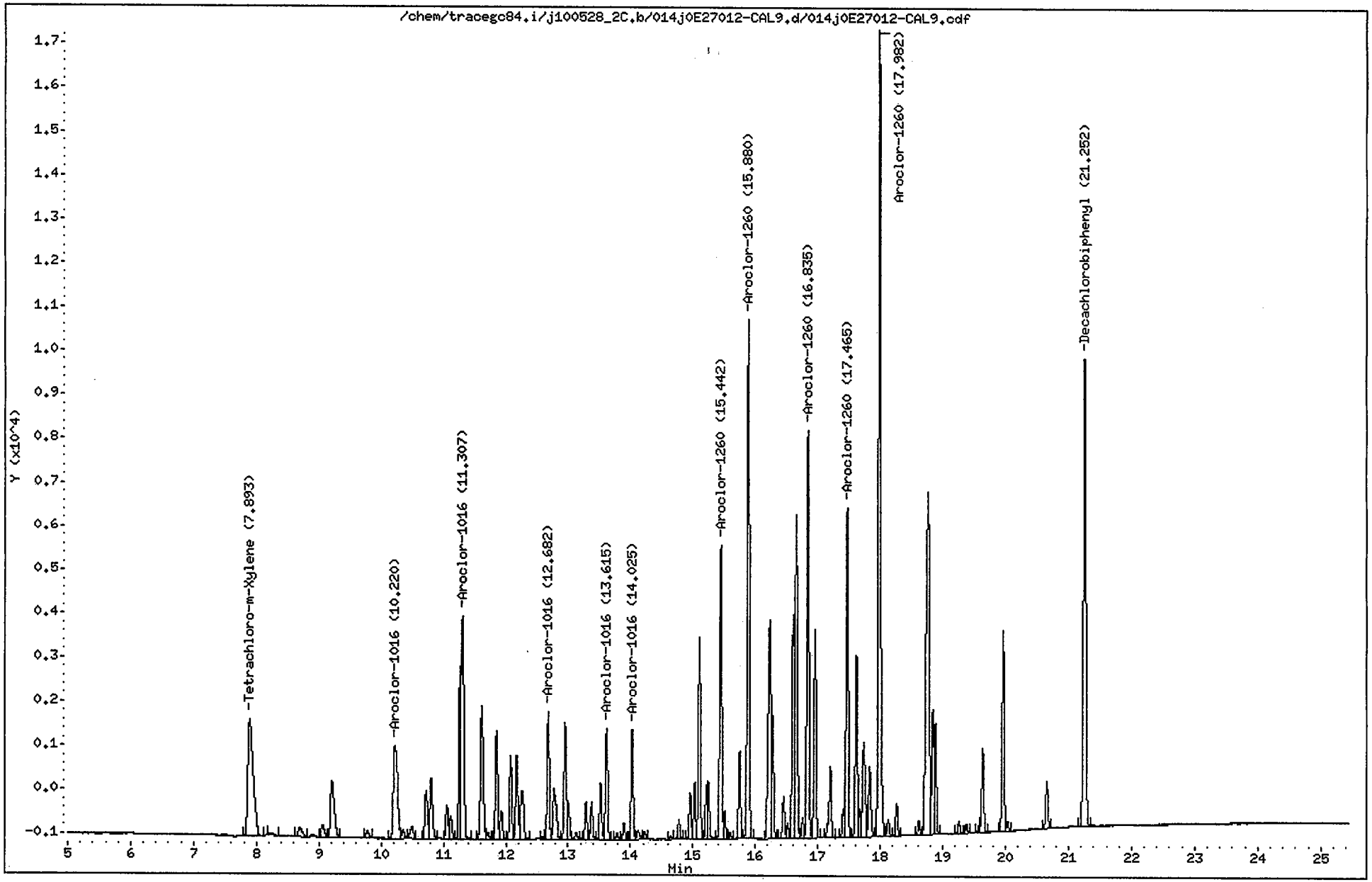
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 28-MAY-2010 23:07 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16604HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53		4994					
7.89	7.82 7.96	15839	416798	Tetrachloro-m-Xylene	0.040000	411550	
8.23		272					
8.69		995					
9.05		1016					
9.21		5387					
9.78		621					
10.22	10.15 10.29	10044	12953	Aroclor-1016 Peak 1	0.800000	12554	
10.35		547					
10.49		1064					
10.72		3233					
10.80		4240					
11.05		2022					
11.12		1384					
11.27		7432					
11.31	11.24 11.38	15161	19854	Aroclor-1016 Peak 2	0.800000	18951	
11.62		9210					
11.72		375					
11.85		6185					
11.93		1626					
12.08		4717					
12.17		5070					
12.26		3950					
12.59		100					
12.68	12.61 12.75	6879	9041	Aroclor-1016 Peak 3	0.800000	8597.500	
12.77		4237					
12.95		6753					
13.01		1772					
13.13		376					
13.29		1978					
13.38		1906					
13.52		3045					
13.62	13.55 13.69	6287	8370	Aroclor-1016 Peak 4	0.800000	7857.500	
13.78		319					
13.89		853					
14.02	13.96 14.10	5749	7947	Aroclor-1016 Peak 5	0.800000	7186.250	
14.12		568					
14.22		371					
14.65		184					
14.78		998					
14.95		2438					
15.03		2859					

AHW
6/1/10

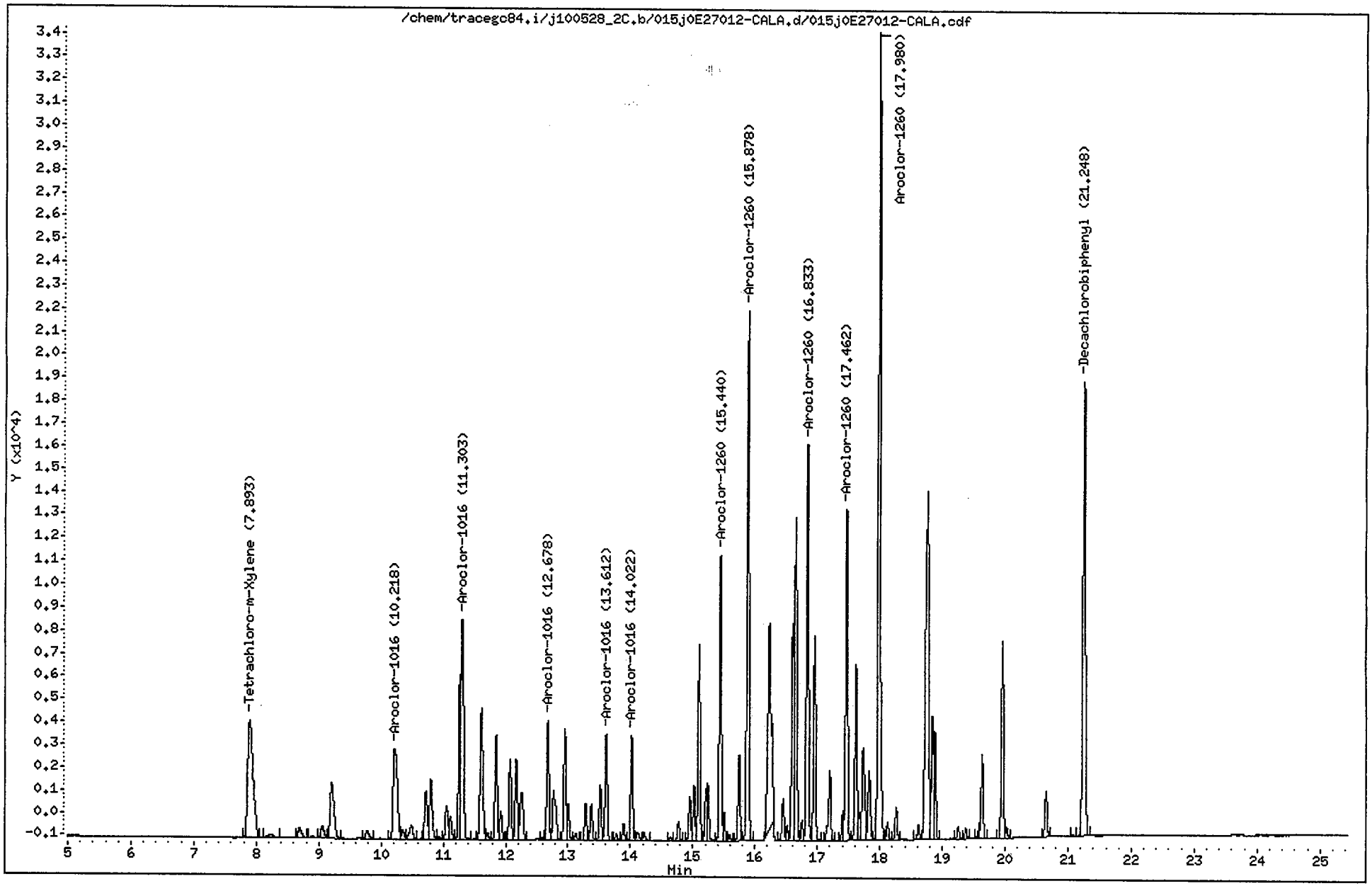
CompuChem

Lab Smp Id : 0E27012-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 28-MAY-2010 23:07 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16604HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.10		10433					
15.21		2434					
15.24		2845					
15.44	15.37 15.51	15282	21225	Aroclor-1260 Peak 1	0.800000	19101	
15.51		1320					
15.59		289					
15.74		4660					
15.88	15.81 15.95	27134	36050	Aroclor-1260 Peak 2	0.800000	33916	
16.23		15431					
16.27		5739					
16.45		2259					
16.52		702					
16.60		11778					
16.65		19088					
16.75		967					
16.84	16.77 16.91	21389	28288	Aroclor-1260 Peak 3	0.800000	26736	
16.95		10710					
17.20		4226					
17.41		1265					
17.46	17.39 17.53	17730	23788	Aroclor-1260 Peak 4	0.800000	22163	
17.61		9532					
17.67		1248					
17.73		6461					
17.83		4295					
17.98	17.91 18.05	43151	56438	Aroclor-1260 Peak 5	0.800000	53937	
18.13		931					
18.26		1679					
18.62		696					
18.76		28579					
18.84		6575					
18.88		5525					
19.25		570					
19.37		496					
19.58		346					
19.64		4607					
19.96		10525					
20.03		479					
20.66		2580					
21.25	21.18 21.32	28729	406698	Decachlorobiphenyl	0.080000	376587	

Data File: /chem/tracegc84.i/j100528_2C.b/015j0E27012-CALA.d
Date : 28-MAY-2010 23:36
Client ID: AR16605HA
Sample Info: 0E27012-CALA
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 28-MAY-2010 23:36 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16605HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52			1355					
7.89	7.82	7.96	30940	416798	Tetrachloro-m-Xylene	0.080000	407787	
8.23			1051					
8.69			1767					
8.90			350					
9.06			2080					
9.21			10426					
9.77			1198					
10.22	10.15	10.29	18798	12953	Aroclor-1016 Peak 1	1.600000	11748	
10.35			1187					
10.49			2201					
10.72			6102					
10.80			8090					
10.93			227					
11.05			3890					
11.12			2691					
11.27			14341					
11.30	11.24	11.38	28234	19854	Aroclor-1016 Peak 2	1.600000	17646	
11.61			17271					
11.71			726					
11.85			11729					
11.93			3081					
12.07			8751					
12.17			9431					
12.26			7408					
12.59			203					
12.68	12.61	12.75	12863	9041	Aroclor-1016 Peak 3	1.600000	8038.750	
12.77			7988					
12.95			12609					
13.00			3437					
13.13			691					
13.28			3830					
13.37			3670					
13.52			5712					
13.61	13.55	13.69	11647	8370	Aroclor-1016 Peak 4	1.600000	7278.750	
13.78			630					
13.89			1620					
14.02	13.96	14.10	10650	7947	Aroclor-1016 Peak 5	1.600000	6655.625	
14.12			1194					
14.22			866					
14.64			342					
14.77			1880					

AHW
6/1/10

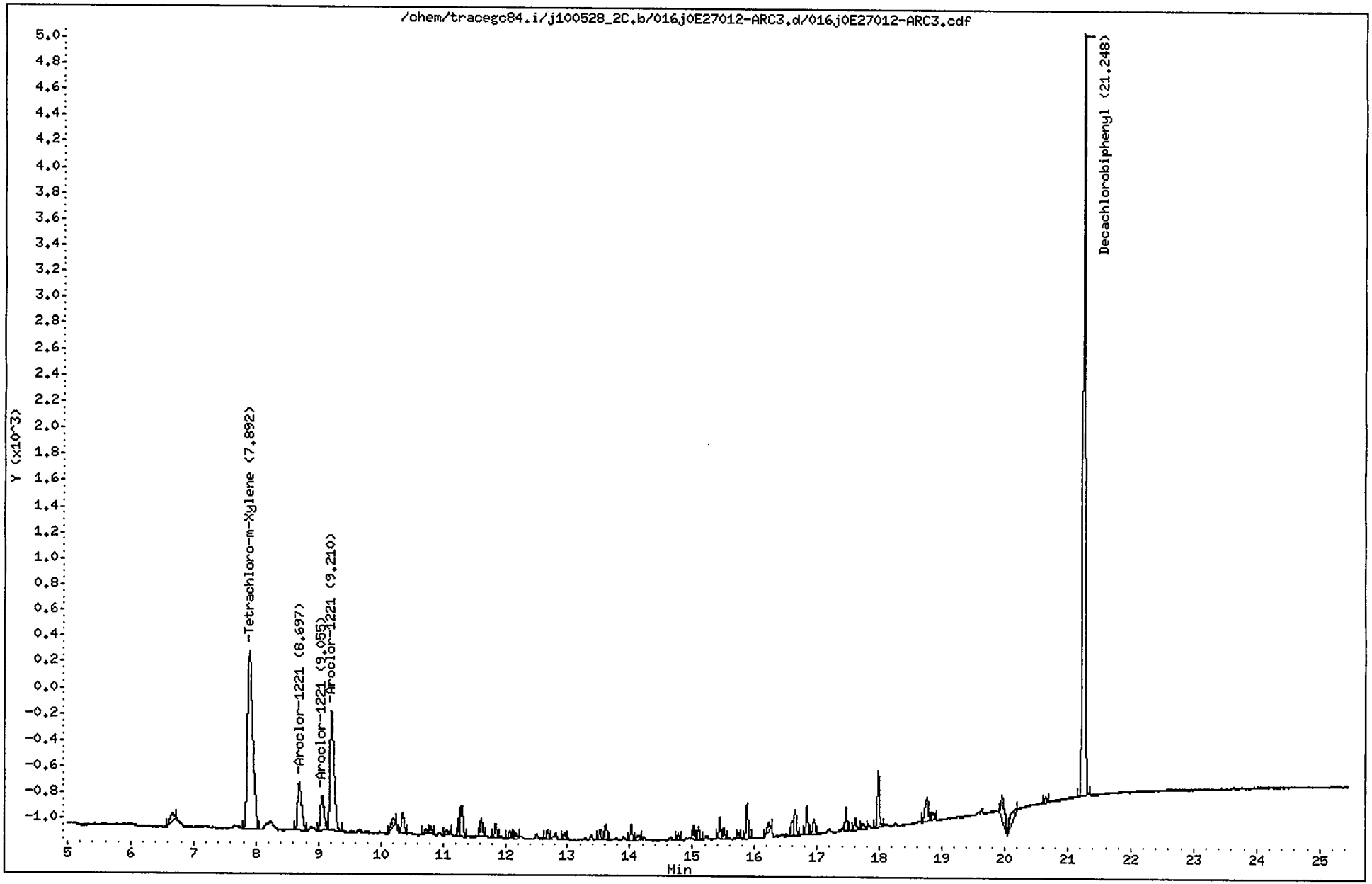
CompuChem

Lab Smp Id : 0E27012-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 28-MAY-2010 23:36 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16605HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.95		4536					
15.02		5425					
15.10		19561					
15.21		4711					
15.24		5270					
15.44	15.37 15.51	28608	21225	Aroclor-1260 Peak 1	1.600000	17880	
15.50		2566					
15.59		606					
15.74		8752					
15.88	15.81 15.95	51744	36050	Aroclor-1260 Peak 2	1.600000	32339	
16.23		35706					
16.45		4307					
16.51		1357					
16.60		22407					
16.65		36104					
16.75		1891					
16.83	16.77 16.91	40779	28288	Aroclor-1260 Peak 3	1.600000	25486	
16.95		20286					
17.20		8137					
17.40		2343					
17.46	17.39 17.53	33551	23788	Aroclor-1260 Peak 4	1.600000	20969	
17.61		17934					
17.67		2288					
17.73		12332					
17.82		8217					
17.98	17.91 18.05	83385	56438	Aroclor-1260 Peak 5	1.600000	52116	
18.13		1774					
18.26		3228					
18.62		1358					
18.76		54383					
18.84		12266					
18.87		10642					
19.25		1188					
19.37		953					
19.58		647					
19.63		8766					
19.95		20067					
20.03		923					
20.65		4921					
21.08		90					
21.25	21.18 21.32	53941	406698	Decachlorobiphenyl	0.160000	356975	

Data File: /chem/tracegc84.i/j100528_2C.b/016j0E27012-ARC3.d
Date : 29-MAY-2010 00:05
Client ID: AR12213HA
Sample Info: 0E27012-ARC3
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC3 Client Smp Id : AR12213HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 29-MAY-2010 00:05 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12213HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			46457					
6.67			285					
7.89	7.82	7.96	8094	416798	Tetrachloro-m-Xylene	0.020000	410850	
8.70	8.63	8.77	1669	4170	Aroclor-1221 Peak 2	0.400000	4170.000	
9.06	8.98	9.12	1080	2700	Aroclor-1221 Peak 3	0.400000	2700.000	
9.21	9.14	9.28	4116	10288	Aroclor-1221 Peak 4	0.400000	10287	
10.20			230					
10.35			467					
10.72			97					
10.80			139					
11.06			138					
11.27			303					
11.31			680					
11.62			394					
11.85			255					
12.07			137					
12.17			97					
12.68			173					
12.96			129					
13.52			156					
13.62			273					
14.03			277					
14.12			135					
14.78			106					
15.03			221					
15.10			208					
15.44			350					
15.51			178					
15.74			109					
15.88			612					
16.23			225					
16.60			241					
16.65			516					
16.84			492					
16.95			301					
17.46			396					
17.61			248					
17.73			133					
17.98			1018					
18.75			645					
18.84			227					
19.96			871					

AHW
6/1/10

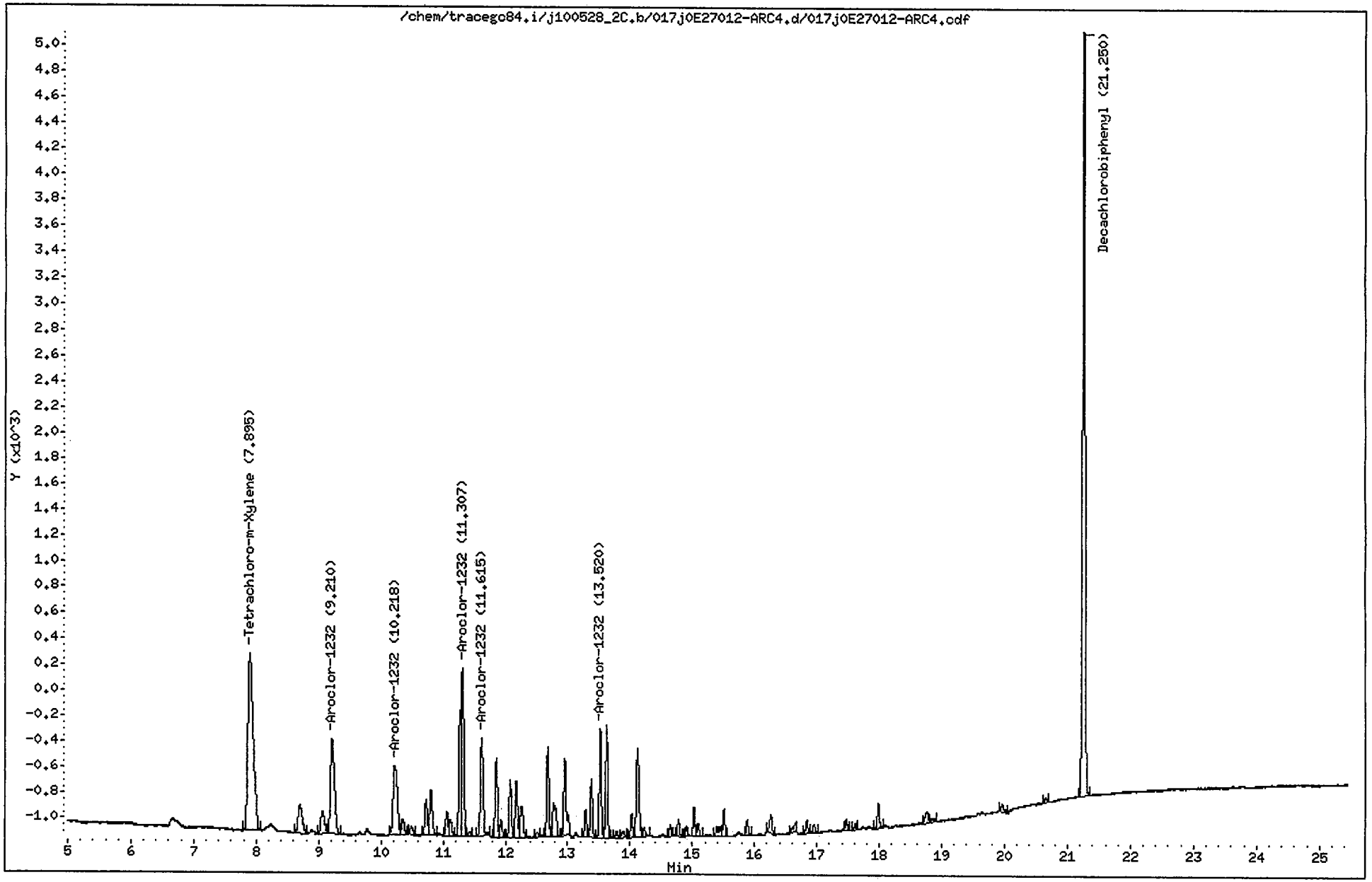
CompuChem

Lab Smp Id : 0E27012-ARC3 Client Smp Id : AR12213HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 29-MAY-2010 00:05 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12213HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
20.19		553					
20.66		118					
21.25	21.18 21.32	15857	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/017j0E27012-ARC4.d
Date : 29-MAY-2010 00:34
Client ID: AR12323HA
Sample Info: 0E27012-ARC4
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 29-MAY-2010 00:34 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12323HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			6078					
1.92			227					
7.90	7.82	7.96	8222	416798	Tetrachloro-m-Xylene	0.020000	410850	
8.69			1024					
9.06			732					
9.21	9.14	9.28	3275	8188	Aroclor-1232 Peak 1	0.400000	8187.500	
10.22	10.15	10.29	2568	6418	Aroclor-1232 Peak 2	0.400000	6417.500	
10.35			378					
10.49			176					
10.72			788					
10.80			1046					
11.05			518					
11.12			332					
11.27			2058					
11.31	11.24	11.38	3727	9318	Aroclor-1232 Peak 3	0.400000	9317.500	
11.43			94					
11.62	11.55	11.69	2299	5748	Aroclor-1232 Peak 4	0.400000	5747.500	
11.85			1547					
11.93			323					
12.08			1075					
12.18			1145					
12.27			852					
12.52			91					
12.68			1662					
12.78			1077					
12.95			1754					
13.29			498					
13.38			1017					
13.52	13.45	13.59	1927	4818	Aroclor-1232 Peak 5	0.400000	4817.500	
13.62			2028					
13.78			100					
13.88			146					
14.03			403					
14.12			2031					
14.23			156					
14.64			186					
14.78			270					
14.90			159					
15.03			465					
15.09			247					
15.39			329					
15.51			455					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 29-MAY-2010 00:34 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.88		264					
16.26		384					
16.60		186					
16.84		225					
16.95		176					
17.47		191					
17.62		94					
17.98		448					
18.76		291					
18.84		109					
19.96		223					
20.66		103					
21.25	21.18 21.32	15900	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/018j0E27012-ARC5.d

Date : 29-MAY-2010 01:03

Client ID: AR12423HA

Sample Info: 0E27012-ARC5

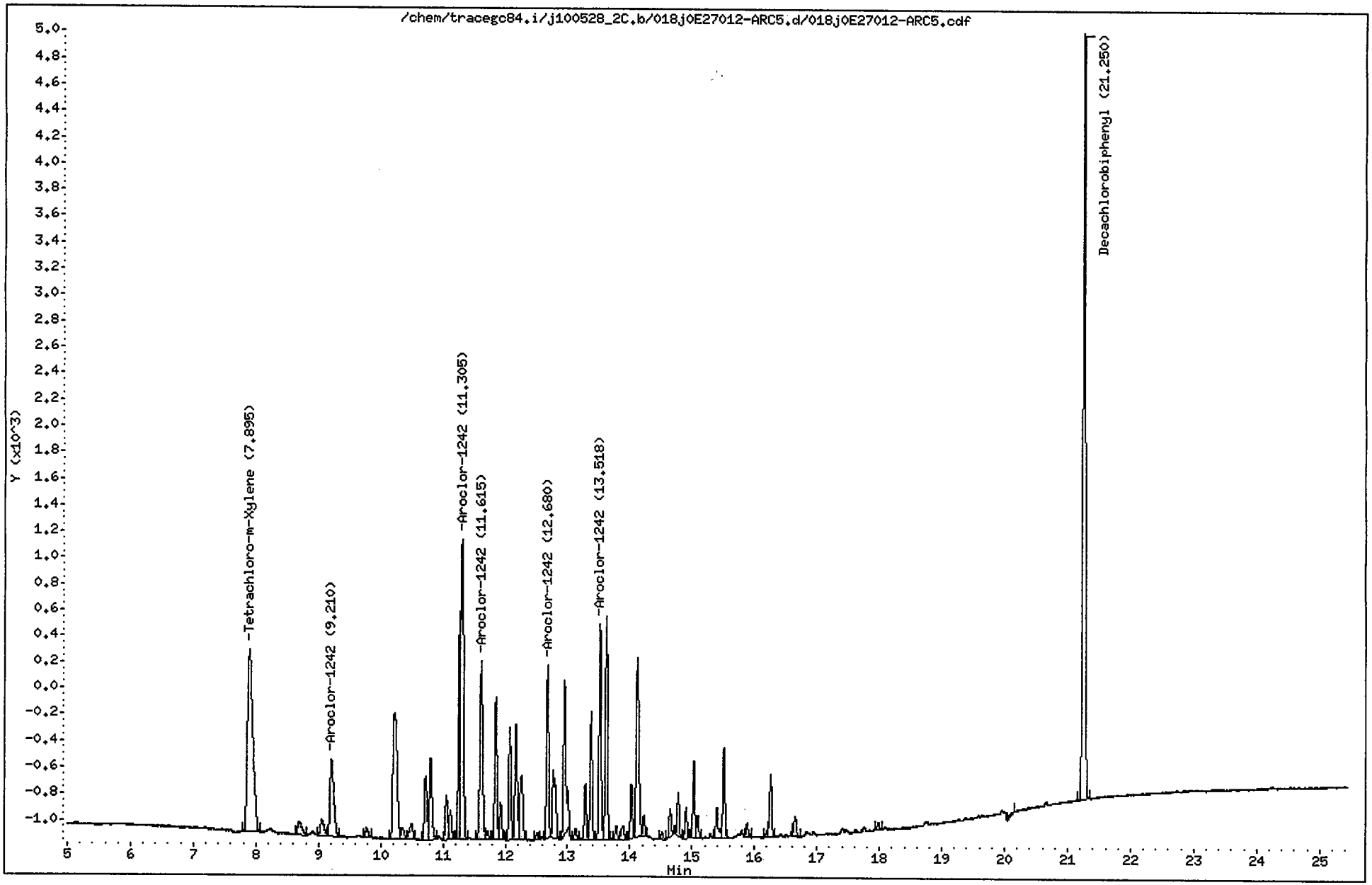
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 29-MAY-2010 01:03 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12423HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54			4643					
2.52			95					
7.90	7.82	7.96	8181	416798	Tetrachloro-m-Xylene	0.020000	410850	
8.69			451					
9.05			464					
9.21	9.14	9.28	2438	6092	Aroclor-1242 Peak 1	0.400000	6092.500	
9.78			255					
10.22			4459					
10.35			260					
10.49			448					
10.72			1417					
10.80			1857					
11.05			903					
11.12			581					
11.27			3529					
11.30	11.23	11.37	6570	16425	Aroclor-1242 Peak 2	0.400000	16425	
11.62	11.55	11.69	4090	10222	Aroclor-1242 Peak 3	0.400000	10223	
11.72			154					
11.85			2686					
11.93			698					
12.08			2079					
12.17			2308					
12.27			1751					
12.52			122					
12.68	12.61	12.75	3039	7598	Aroclor-1242 Peak 4	0.400000	7597.500	
12.77			1924					
12.95			3384					
13.13			196					
13.29			977					
13.38			2193					
13.52	13.45	13.59	3803	9505	Aroclor-1242 Peak 5	0.400000	9505.000	
13.62			4081					
13.78			240					
13.89			342					
14.02			915					
14.12			4153					
14.22			317					
14.52			126					
14.64			488					
14.78			680					
14.90			497					
15.03			1278					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 29-MAY-2010 01:03 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12423HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.09		398					
15.39		655					
15.51		1508					
15.88		255					
16.21		101					
16.25		1102					
16.65		394					
17.98		126					
20.15		103					
21.25	21.18 21.32	15810	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/019j0E27012-ARC6.d

Date : 29-MAY-2010 01:32

Client ID: AR12483HA

Sample Info: 0E27012-ARC6

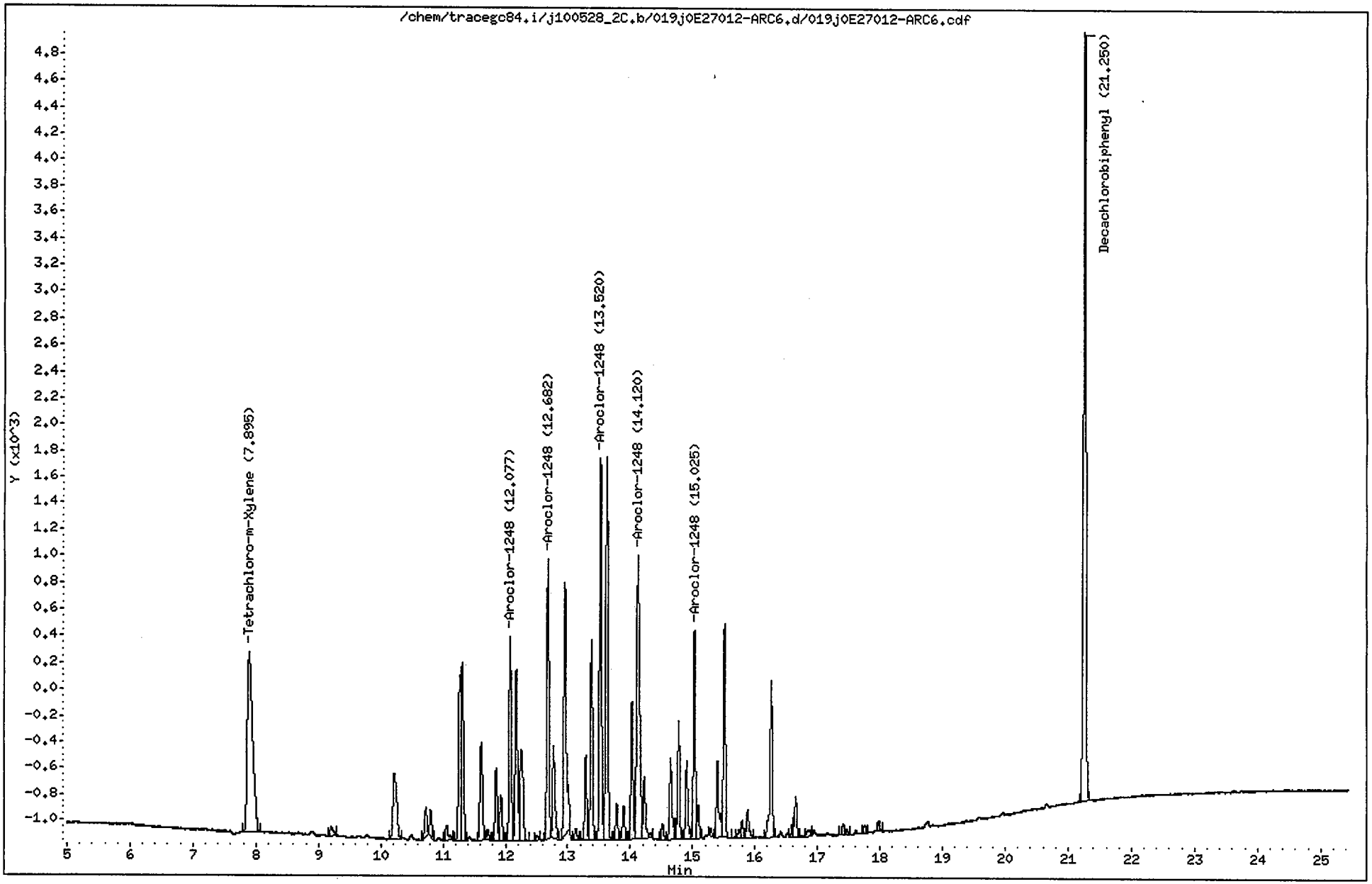
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 29-MAY-2010 01:32 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55		6951					
1.90		216					
7.90	7.82 7.96	8180	416798	Tetrachloro-m-Xylene	0.020000	410850	
9.21		240					
10.22		2132					
10.72		548					
10.80		506					
11.05		377					
11.27		2891					
11.31		3648					
11.61		2168					
11.71		174					
11.85		1385					
11.93		873					
12.08	12.01 12.15	3800	9500	Aroclor-1248 Peak 1	0.400000	9500.000	
12.17		3447					
12.26		2536					
12.50		95					
12.68	12.61 12.75	4952	12378	Aroclor-1248 Peak 2	0.400000	12377	
12.77		1909					
12.95		5414					
13.13		193					
13.29		1486					
13.38		3533					
13.52	13.45 13.59	6749	16872	Aroclor-1248 Peak 3	0.400000	16873	
13.62		7131					
13.78		627					
13.89		633					
14.03		2480					
14.12	14.05 14.19	7275	18185	Aroclor-1248 Peak 4	0.400000	18185	
14.22		1226					
14.52		289					
14.64		1587					
14.72		238					
14.78		2062					
14.90		1474					
15.02	14.96 15.10	3554	8882	Aroclor-1248 Peak 5	0.400000	8882.500	
15.09		573					
15.29		129					
15.39		1678					
15.51		3676					
15.74		137					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 29-MAY-2010 01:32 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.79		271					
15.88		577					
16.26		3091					
16.60		180					
16.65		770					
16.84		179					
17.41		196					
17.46		100					
17.75		155					
17.98		158					
21.25	21.18 21.32	15689	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/020j0E27012-ARC7.d

Date : 29-MAY-2010 02:01

Client ID: AR12543HA

Sample Info: 0E27012-ARC7

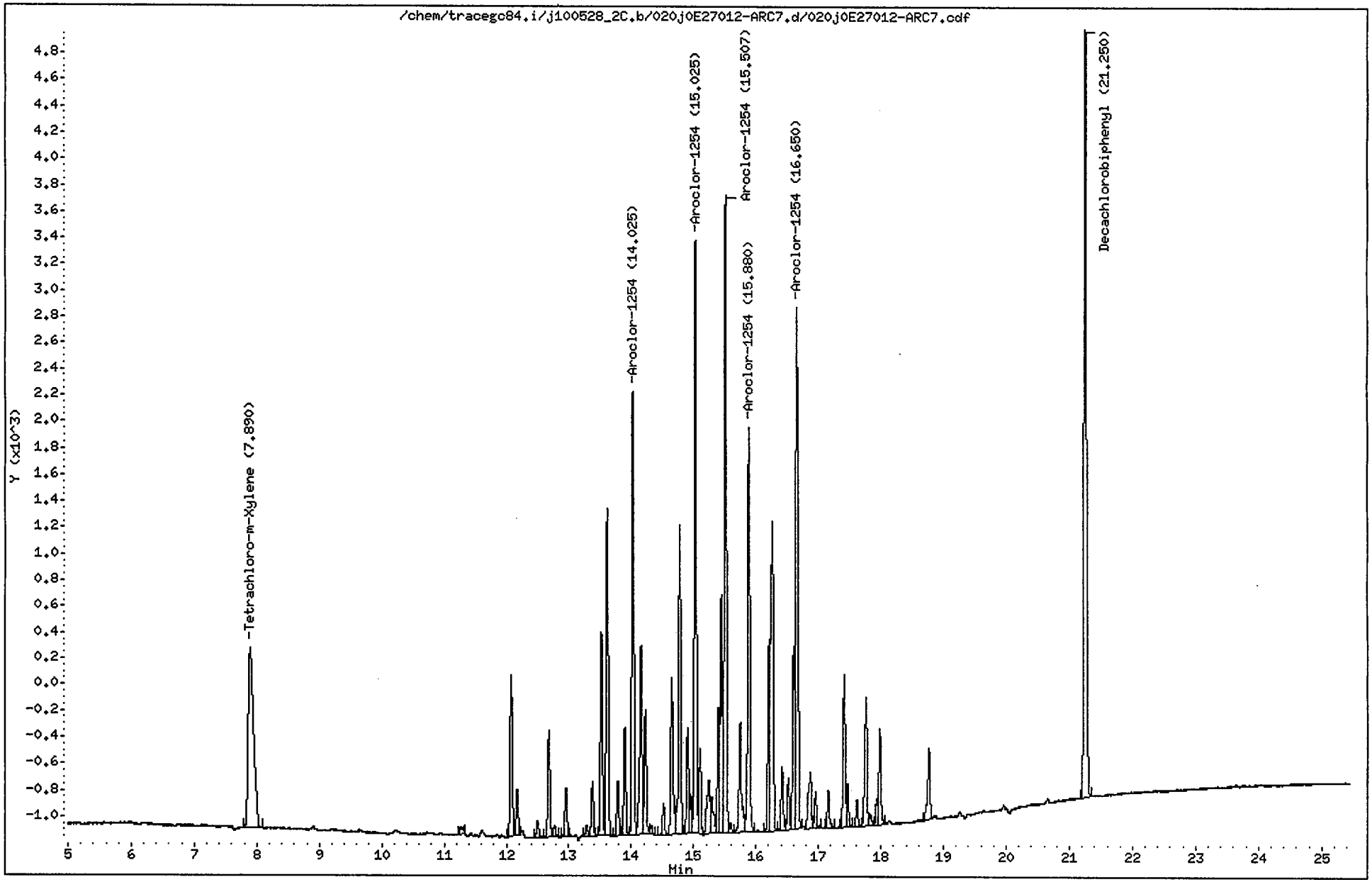
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 29-MAY-2010 02:01 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53		1503					
2.52		107					
7.89	7.82 7.96	8133	416798	Tetrachloro-m-Xylene	0.020000	410850	
11.27		231					
12.08		2963					
12.17		770					
12.50		310					
12.68		1873					
12.77		210					
12.95		884					
13.29		183					
13.38		919					
13.52		3563					
13.61		5900					
13.78		937					
13.89		1800					
14.02	13.96 14.10	7888	19718	Aroclor-1254 Peak 1	0.400000	19717	
14.16		3806					
14.22		2167					
14.32		171					
14.52		557					
14.64		2999					
14.78		5649					
14.90		1782					
14.95		591					
15.02	14.96 15.10	10277	25690	Aroclor-1254 Peak 2	0.400000	25690	
15.10		1390					
15.24		1408					
15.29		819					
15.39		1945					
15.44		4271					
15.51	15.44 15.58	10919	27295	Aroclor-1254 Peak 3	0.400000	27295	
15.60		153					
15.74		2382					
15.88	15.81 15.95	7170	17922	Aroclor-1254 Peak 4	0.400000	17923	
16.20		2920					
16.25		7155					
16.41		1092					
16.52		844					
16.60		2842					
16.65	16.58 16.72	10096	25238	Aroclor-1254 Peak 5	0.400000	25237	
16.87		1426					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 29-MAY-2010 02:01 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.95		635					
17.15		700					
17.41		2600					
17.46		702					
17.62		443					
17.76		2404					
17.83		213					
17.93		382					
17.98		1680					
18.77		1427					
21.25	21.18 21.32	15713	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/021j0E27012-ICV1.d

Date : 29-MAY-2010 02:30

Client ID: PESTCHKHA

Sample Info: 0E27012-ICV1

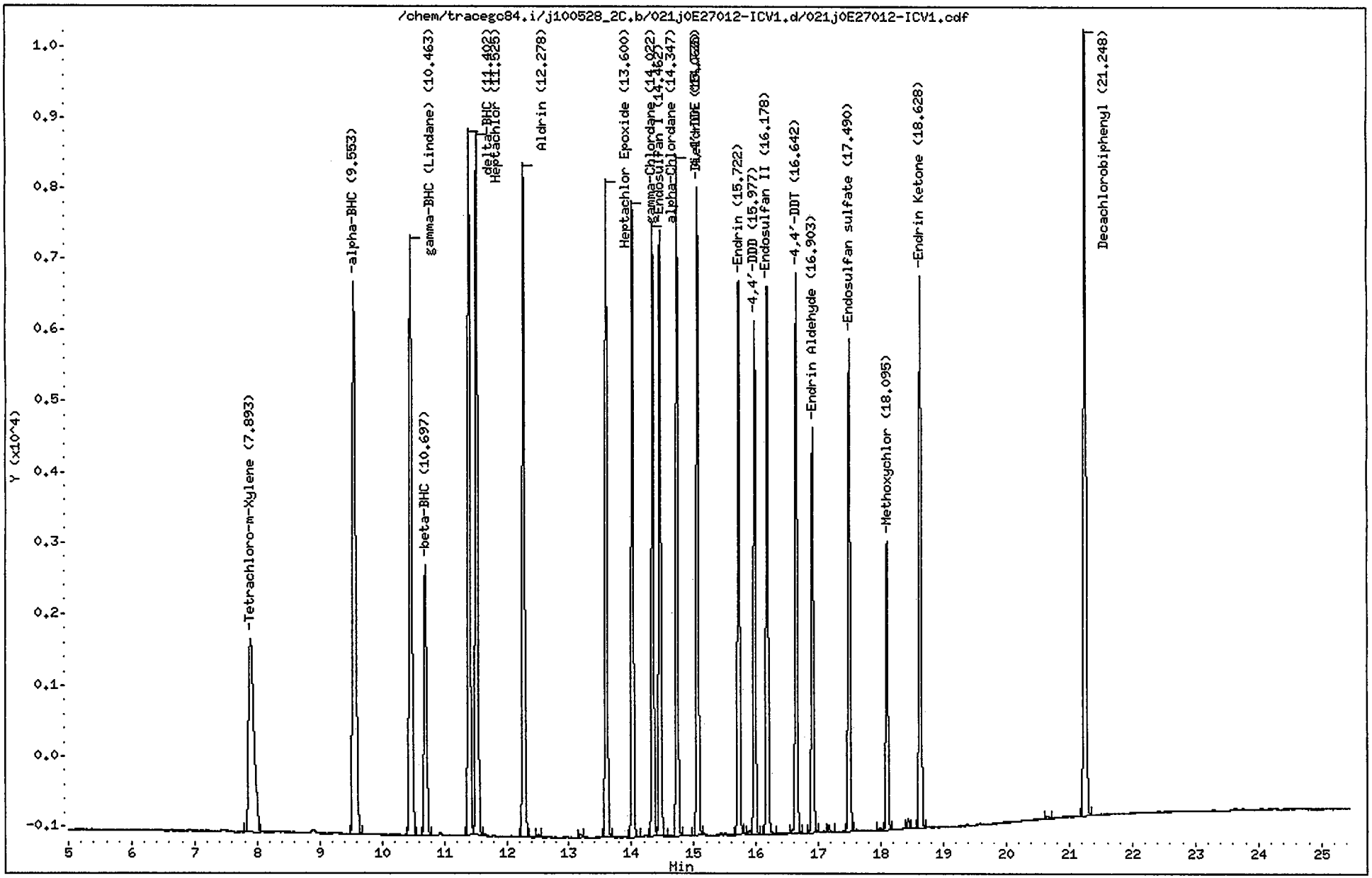
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: System

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ICV1 Client Smp Id : PESTCHKHA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 29-MAY-2010 02:30 Inst ID : TRACEGC84
Operator : System Spike Sublist : INDAchek
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PESTCHKHA

RT	AREA
1.52	971
2.52	113
7.89	16373
9.55	27766
10.46	25508
10.70	10744
11.40	25025
11.53	26353
12.28	24122
12.51	90
13.19	137
13.60	21487
14.02	20491
14.35	19566
14.46	19716
14.73	20595
15.06	20726
15.72	17889
15.89	173
15.98	15433
16.18	17845
16.64	17369
16.90	13306
17.16	236
17.49	16118
17.98	91
18.09	9156
18.43	293
18.63	18709
20.66	111
21.25	29779

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/022j0E27012-ICV2.d

Page 1

Date : 29-MAY-2010 02:59

Client ID: PCBCHKHA

Instrument: tracegc84.i

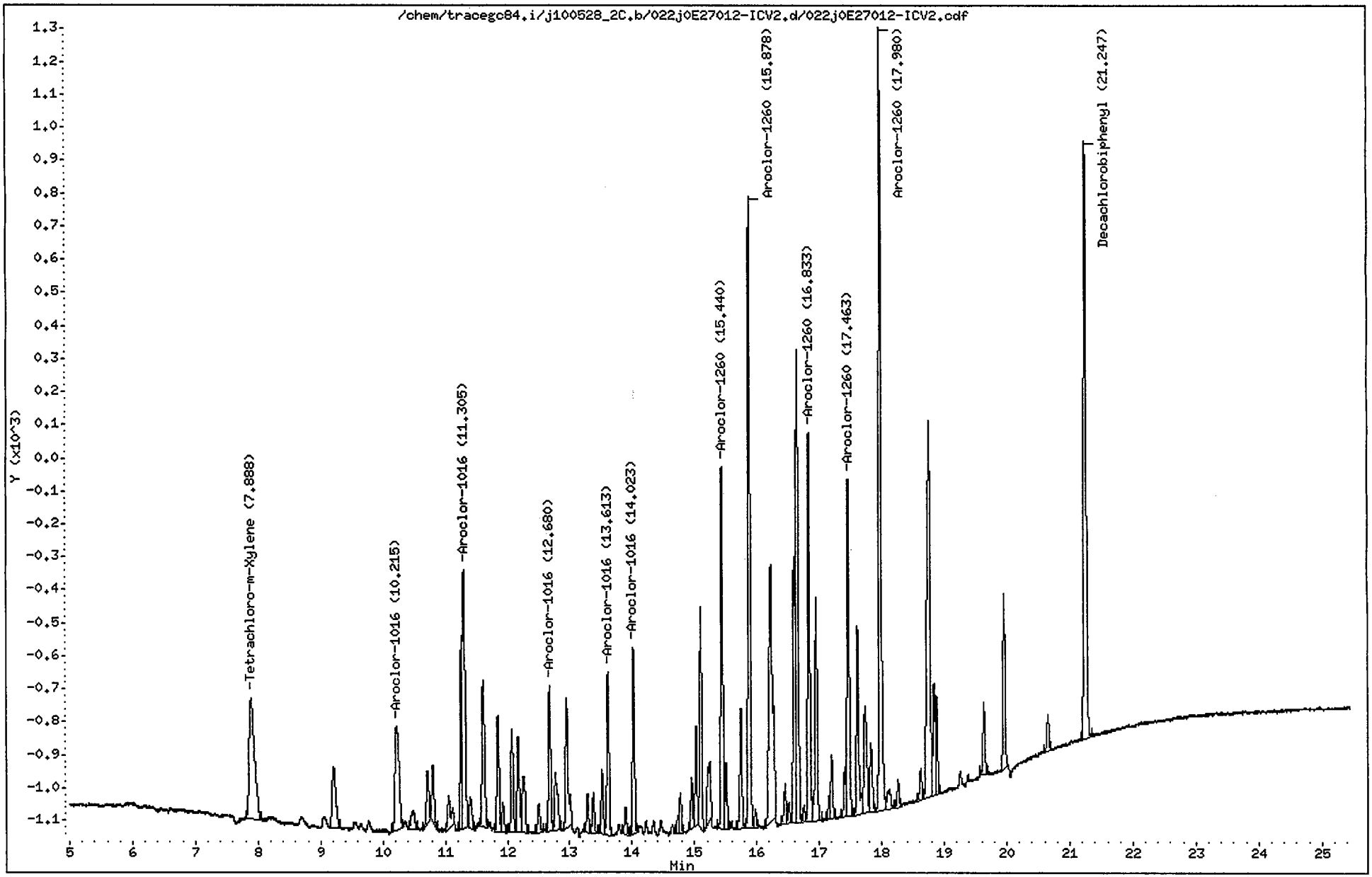
Sample Info: 0E27012-ICV2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 29-MAY-2010 02:59 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PCBCHKHA

RT	AREA
1.51	5107
7.89	2190
9.21	761
10.21	1448
10.48	242
10.72	451
10.80	458
11.05	369
11.27	1244
11.30	2146
11.41	281
11.61	1273
11.85	884
11.93	232
12.07	732
12.17	760
12.27	603
12.50	215
12.68	1026
12.77	586
12.95	1132
13.28	262
13.38	254
13.52	457
13.61	1218
13.89	196
14.02	1251
14.73	96
14.77	284
14.95	331
15.02	670
15.10	1485
15.21	680
15.44	2500
15.51	438
15.74	902
15.88	4331
15.98	116
16.23	3252
16.45	289
16.51	136
16.60	1788
16.65	3672
16.75	107
16.83	2698

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 29-MAY-2010 02:59 Inst ID :
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PCBCHKHA

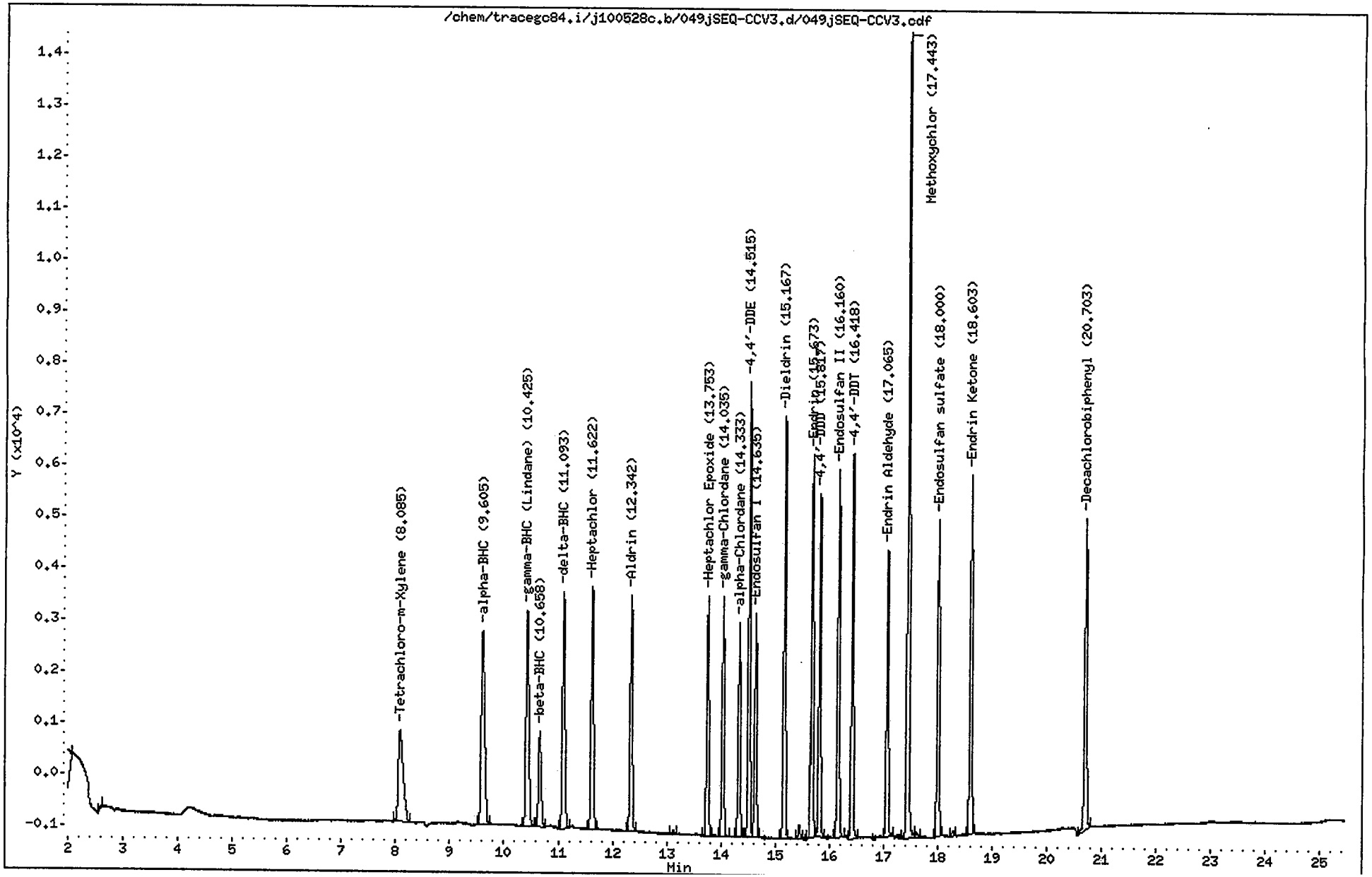
RT	AREA
16.95	1595
17.15	119
17.20	443
17.41	308
17.46	2477
17.61	1400
17.73	1073
17.83	559
17.98	5630
18.12	237
18.26	182
18.62	233
18.76	3878
18.84	740
18.88	657
19.63	502
19.95	1166
20.65	268
21.25	4893

Manual Integrations							
SDG:							
Sample(s)	0E27012-ARC1						
Compound							
alpha-BHC							
gamma-BHC							
beta-BHC							
delta-BHC							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
gamma-Chlordane							
alpha-Chlordane							
Endosulfan I							
4,4'-DDE							
Dieldrin							
Endrin							
4,4'-DDD							
Endosulfan II							
4,4'-DDT							
Endrin Aldehyde							
Endosulfan sulfate							
Methoxychlor							
Endrin Ketone							
Toxaphene	x						
Technical Chordane							
Tetrachloro-m-xylene							
Decachlorbiphenyl							
"X" Denotes a manual integration for the compound							

Data File: /chem/tracegc84.i/j100528c.b/049jSEQ-CCV3.d
Date : 29-MAY-2010 15:59
Client ID: INDC3JG
Sample Info: SEQ-CCV3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

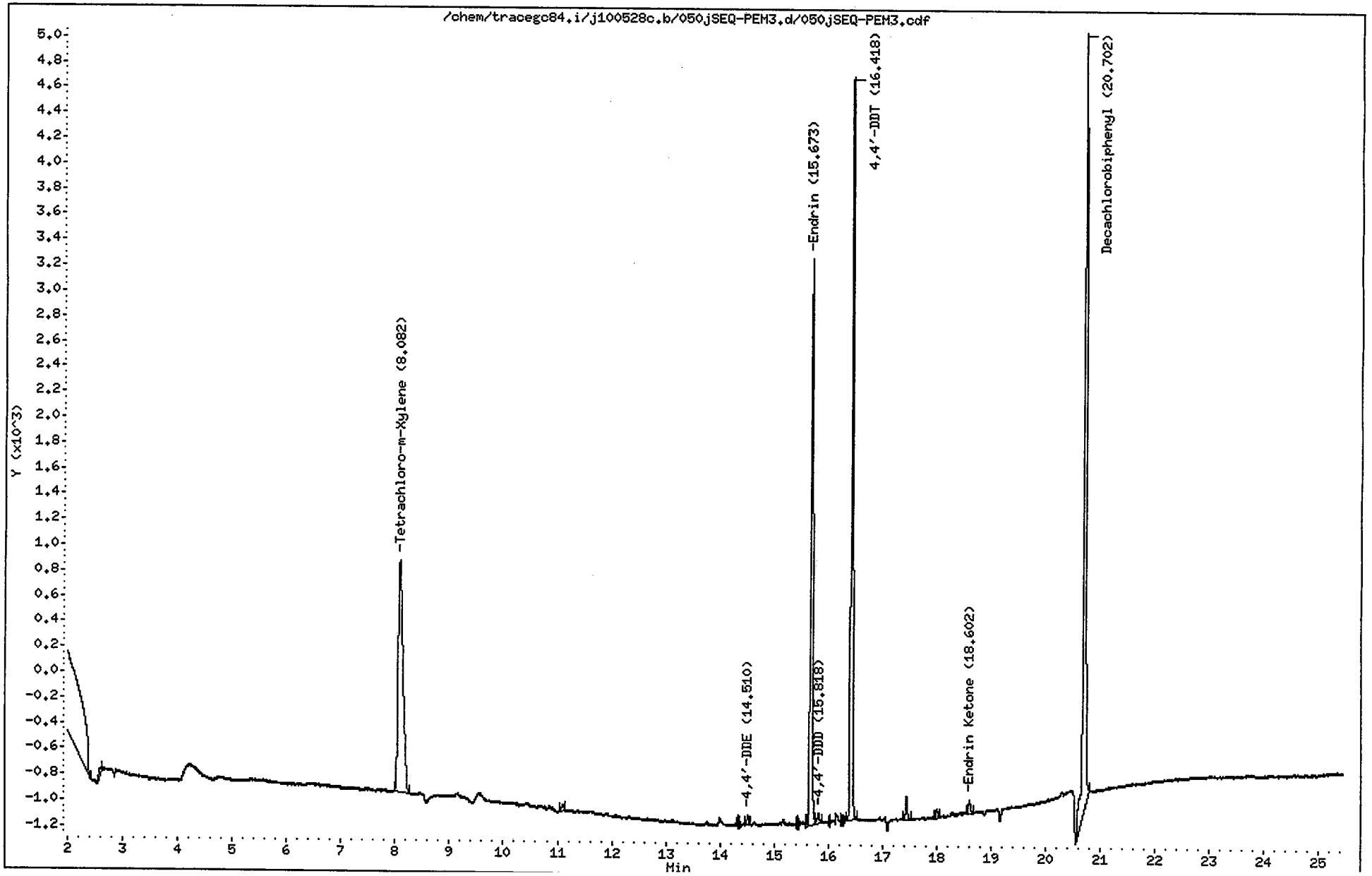
Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3JG
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 15:59 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : INDC3JG

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.45			122								
1.56			35405								
2.60			150								
8.08	8.01	8.15	11104	522758	Tetrachloro-m-Xylene	0.020000	555185	-6.2	20.0		
9.60	9.53	9.67	16284	775960	alpha-BHC	0.020000	814180	-4.9	20.0		
10.42	10.36	10.50	15315	729192	gamma-BHC (Lindane)	0.020000	765765	-5.0	20.0		
10.66	10.59	10.73	6254	300532	beta-BHC	0.020000	312698	-4.0	20.0		
11.09	11.02	11.16	14551	689518	delta-BHC	0.020000	727545	-5.5	20.0		
11.62	11.55	11.69	14476	695465	Heptachlor	0.020000	723785	-4.1	20.0		
12.34	12.27	12.41	13202	636570	Aldrin	0.020000	660097	-3.7	20.0		
13.12			196								
13.75	13.68	13.82	12273	593700	Heptachlor Epoxide	0.020000	613650	-3.4	20.0		
14.04	13.97	14.11	12268	594875	gamma-Chlordane	0.020000	613415	-3.1	20.0		
14.33	14.27	14.41	10730	516712	alpha-Chlordane	0.020000	536490	-3.8	20.0		
14.52	14.45	14.59	21513	523741	4,4'-DDE	0.040000	537836	-2.7	20.0		
14.64	14.57	14.71	11428	548162	Endosulfan I	0.020000	571398	-4.2	20.0		
15.17	15.10	15.24	21077	515556	Dieldrin	0.040000	526920	-2.2	20.0		
15.45			618								
15.67	15.61	15.75	19274	463071	Endrin	0.040000	481845	-4.1	20.0		
15.82	15.75	15.89	16097	393458	4,4'-DDD	0.040000	402423	-2.3	20.0		
16.16	16.09	16.23	18449	450326	Endosulfan II	0.040000	461214	-2.4	20.0		
16.42	16.35	16.49	18656	454781	4,4'-DDT	0.040000	466395	-2.6	20.0		
17.06	17.00	17.14	14348	348470	Endrin Aldehyde	0.040000	358694	-2.9	20.0		
17.44	17.37	17.51	39815	194359	Methoxychlor	0.200000	199073	-2.4	20.0		
17.61			286								
18.00	17.93	18.07	15946	392055	Endosulfan sulfate	0.040000	398644	-1.7	20.0		
18.29			252								
18.60	18.53	18.67	18407	457258	Endrin Ketone	0.040000	460186	-0.6	20.0		
20.70	20.63	20.77	17078	408350	Decachlorobiphenyl	0.040000	426961	-4.6	20.0		

6/1/10

Data File: /chem/tracegc84.i/j100528c.b/050jSEQ-PEM3.d
Date : 29-MAY-2010 16:28
Client ID: PEMJG
Sample Info: SEQ-PEM3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMJG
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 16:28 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : PEMJG

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.45			298								
1.57			55328								
2.60			186								
8.08	8.01	8.15	11284	522758	Tetrachloro-m-Xylene	0.021586	0.021586		109.0	43 - 135	
11.10			156								
14.51	14.45	14.59	189	523741	4,4'-DDE	0.000362	0.000362	0.020000			J
15.67	15.61	15.75	11712	463071	Endrin	0.025293	0.025293	0.020000			
15.82	15.75	15.89	243	393458	4,4'-DDD	0.000617	0.000617	0.020000			J
16.42	16.35	16.49	14366	454781	4,4'-DDT	0.031589	0.031589	0.020000			
17.45			446								
18.00			172								
18.60	18.53	18.67	295	457258	Endrin Ketone	0.000646	0.000646	0.020000			J
20.70	20.63	20.77	18548	408350	Decachlorobiphenyl	0.045422	0.045422		114.7	43 - 144	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528c_2C.b/049jSEQ-CCV3.d

Date : 29-MAY-2010 15:59

Client ID: INDC3JH

Sample Info: SEQ-CCV3

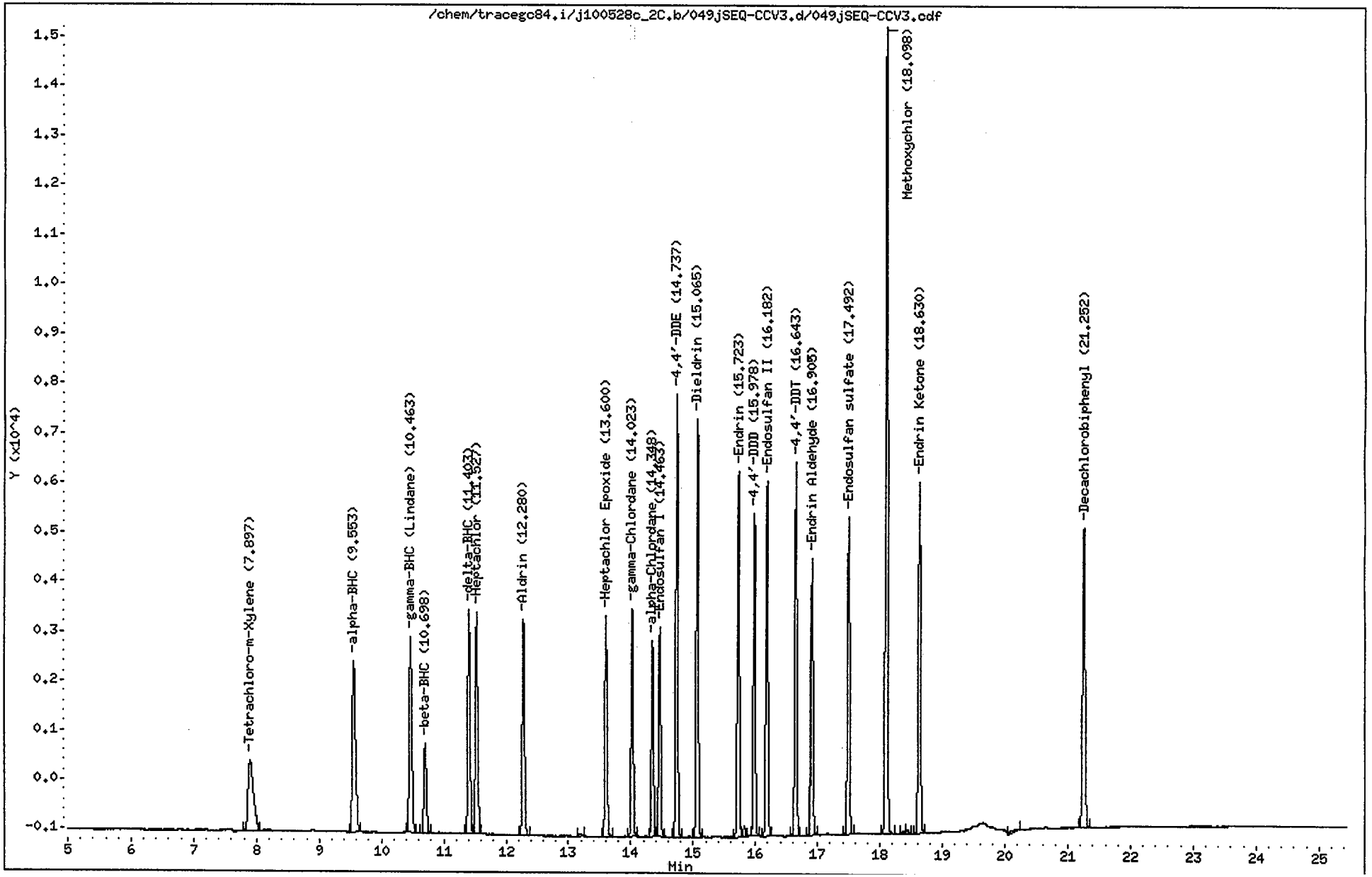
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3JH
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 15:59 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3JH

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.55			8592								
2.52			97								
7.90	7.82	7.96	8413	416798	Tetrachloro-m-Xylene	0.020000	420655	-0.9	20.0		
9.55	9.48	9.62	12308	607758	alpha-BHC	0.020000	615420	-1.3	20.0		
10.46	10.39	10.53	11871	585542	gamma-BHC (Lindane)	0.020000	593565	-1.4	20.0		
10.70	10.63	10.77	5048	248610	beta-BHC	0.020000	252425	-1.5	20.0		
11.40	11.33	11.47	11259	551235	delta-BHC	0.020000	562955	-2.1	20.0		
11.53	11.45	11.59	11918	579497	Heptachlor	0.020000	595890	-2.8	20.0		
12.28	12.21	12.35	11020	542192	Aldrin	0.020000	551003	-1.6	20.0		
13.19			112								
13.60	13.53	13.67	10374	511912	Heptachlor Epoxide	0.020000	518720	-1.3	20.0		
14.02	13.95	14.09	10383	513150	gamma-Chlordane	0.020000	519173	-1.2	20.0		
14.35	14.28	14.42	9096	446248	alpha-Chlordane	0.020000	454790	-1.9	20.0		
14.46	14.39	14.53	9720	477982	Endosulfan I	0.020000	485980	-1.7	20.0		
14.74	14.67	14.81	19165	468602	4,4'-DDE	0.040000	479135	-2.2	20.0		
15.06	14.99	15.13	18891	461929	Dieldrin	0.040000	472272	-2.2	20.0		
15.72	15.65	15.79	17106	408649	Endrin	0.040000	427644	-4.6	20.0		
15.82			481								
15.98	15.91	16.05	13984	340626	4,4'-DDD	0.040000	349600	-2.6	20.0		
16.18	16.11	16.25	16540	404930	Endosulfan II	0.040000	413505	-2.1	20.0		
16.64	16.57	16.71	16585	405929	4,4'-DDT	0.040000	414636	-2.1	20.0		
16.90	16.83	16.97	13057	316985	Endrin Aldehyde	0.040000	326420	-3.0	20.0		
17.49	17.42	17.56	14988	366674	Endosulfan sulfate	0.040000	374708	-2.2	20.0		
18.10	18.03	18.17	37126	182916	Methoxychlor	0.200000	185629	-1.5	20.0		
18.38			137								
18.44			209								
18.63	18.56	18.70	16939	419519	Endrin Ketone	0.040000	423464	-0.9	20.0		
20.22			373								
21.25	21.18	21.32	16447	406698	Decachlorobiphenyl	0.040000	411180	-1.1	20.0		

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528c_2C.b/050jSEQ-PEM3.d

Date : 29-MAY-2010 16:28

Client ID: PEMJH

Instrument: tracegc84.i

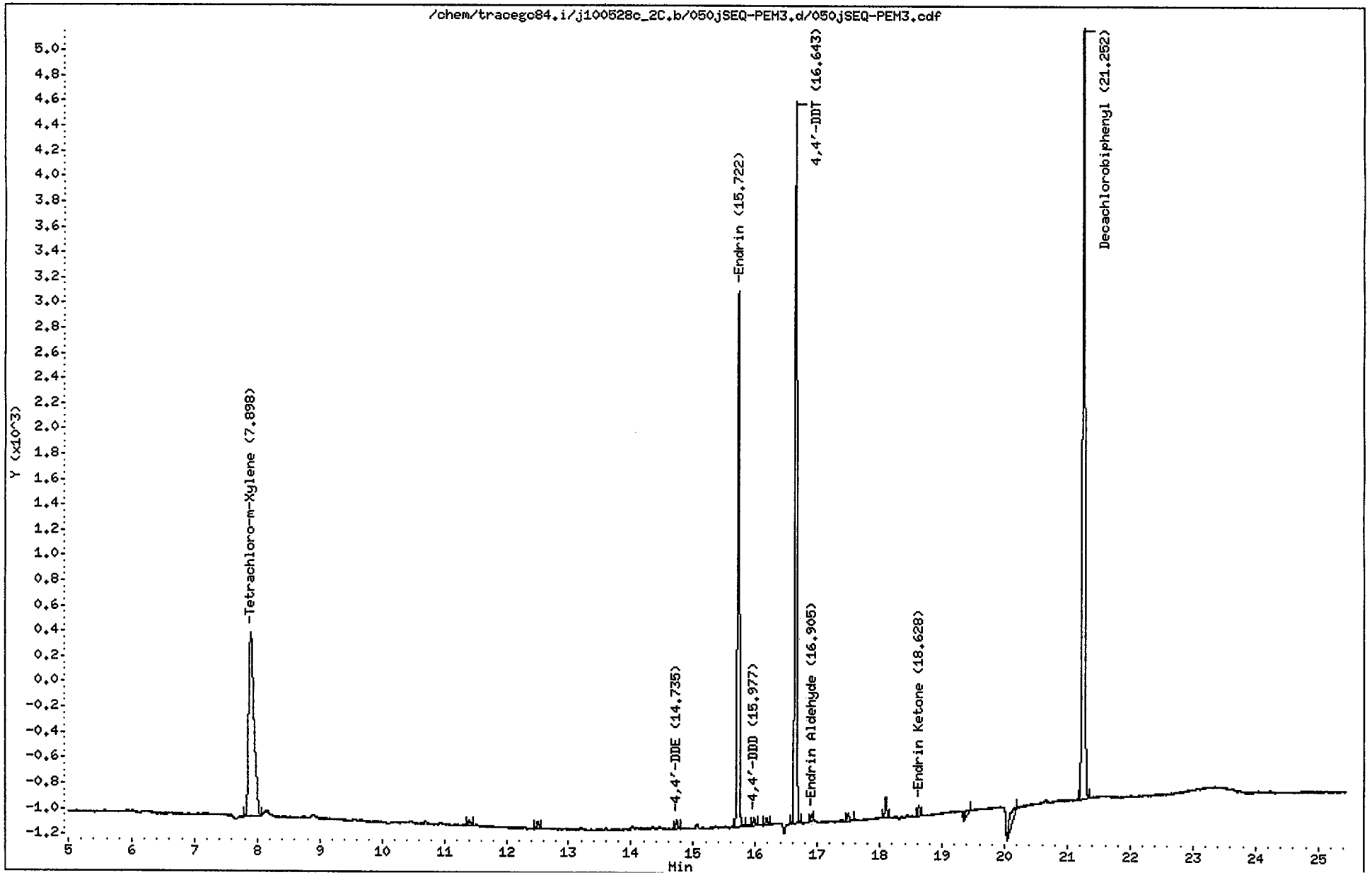
Sample Info: SEQ-PEM3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMJH
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 16:28 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : PEMJH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

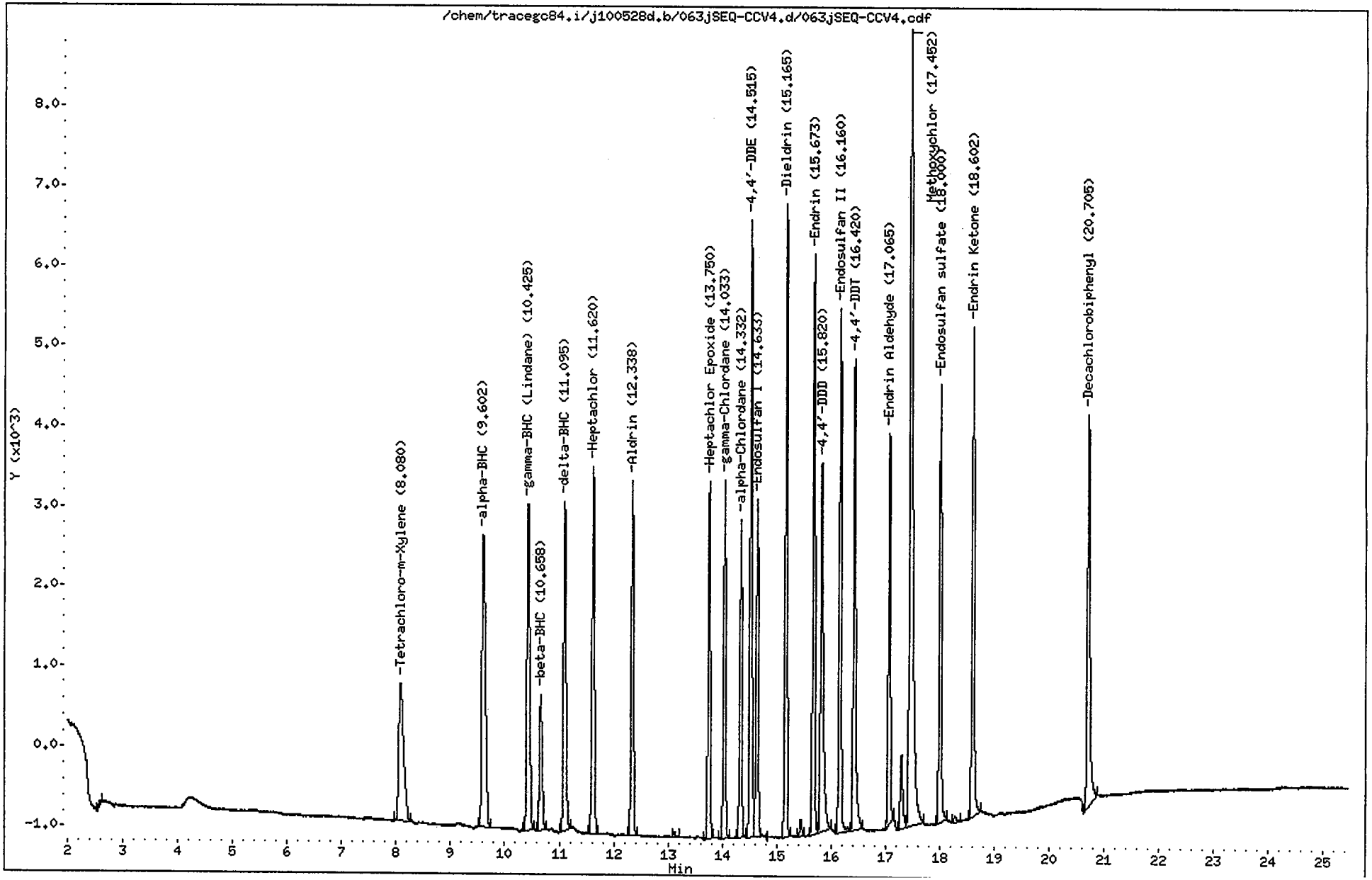
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.54			1963								
7.90	7.82	7.96	8526	416798	Tetrachloro-m-Xylene	0.020456	0.020456		103.3	43 - 135	
11.41			115								
12.50			144								
14.74	14.67	14.81	147	468602	4,4'-DDE	0.000313	0.000313	0.020000			J
15.72	15.65	15.79	9719	408649	Endrin	0.023784	0.023784	0.020000			
15.98	15.91	16.05	120	340626	4,4'-DDD	0.000353	0.000353	0.020000			J
16.18			130								
16.64	16.57	16.71	12618	405929	4,4'-DDT	0.031083	0.031083	0.020000			
16.90	16.83	16.97	116	316985	Endrin Aldehyde	0.000366	0.000366	0.020000			J
17.49			125								
18.09			346								
18.63	18.56	18.70	198	419519	Endrin Ketone	0.000473	0.000473	0.020000			J
19.40			161								
20.17			644								
21.25	21.18	21.32	16448	406698	Decachlorobiphenyl	0.040442	0.040442		102.1	43 - 144	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528d.b/063jSEQ-CCV4.d
Date : 29-MAY-2010 22:44
Client ID: INDC3JJ
Sample Info: SEQ-CCV4
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV4 Client Smp Id : INDC3JJ
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 22:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : INDC3JJ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.57			27507								
2.59			171								
8.08	8.01	8.15	10735	522758	Tetrachloro-m-Xylene	0.020000	536745	-2.7	20.0		
9.60	9.53	9.67	15786	775960	alpha-BHC	0.020000	789295	-1.7	20.0		
10.42	10.36	10.50	14669	729192	gamma-BHC (Lindane)	0.020000	733465	-0.6	20.0		
10.66	10.59	10.73	5772	300532	beta-BHC	0.020000	288575	4.0	20.0		
11.10	11.02	11.16	13156	689518	delta-BHC	0.020000	657795	4.6	20.0		
11.62	11.55	11.69	14068	695465	Heptachlor	0.020000	703400	-1.1	20.0		
12.34	12.27	12.41	12849	636570	Aldrin	0.020000	642465	-0.9	20.0		
13.12			170								
13.75	13.68	13.82	11837	593700	Heptachlor Epoxide	0.020000	591828	0.3	20.0		
14.03	13.97	14.11	11754	594875	gamma-Chlordane	0.020000	587725	1.2	20.0		
14.33	14.27	14.41	10216	516712	alpha-Chlordane	0.020000	510822	1.1	20.0		
14.52	14.45	14.59	20604	523741	4,4'-DDE	0.040000	515106	1.6	20.0		
14.63	14.57	14.71	11516	548162	Endosulfan I	0.020000	575818	-5.0	20.0		
15.16	15.10	15.24	20197	515556	Dieldrin	0.040000	504935	2.1	20.0		
15.45			514								
15.67	15.61	15.75	18750	463071	Endrin	0.040000	468740	-1.2	20.0		
15.82	15.75	15.89	15525	393458	4,4'-DDD	0.040000	388134	1.4	20.0		
16.16	16.09	16.23	17385	450326	Endosulfan II	0.040000	434613	3.5	20.0		
16.42	16.35	16.49	16973	454781	4,4'-DDT	0.040000	424315	6.7	20.0		
17.06	17.00	17.14	12665	348470	Endrin Aldehyde	0.040000	316631	9.1	20.0		
17.29			3019								
17.45	17.37	17.51	38851	194359	Methoxychlor	0.200000	194253	0.1	20.0		
18.00	17.93	18.07	14607	392055	Endosulfan sulfate	0.040000	365186	6.9	20.0		
18.28			226								
18.60	18.53	18.67	16790	457258	Endrin Ketone	0.040000	419750	8.2	20.0		
20.70	20.63	20.77	16242	408350	Decachlorobiphenyl	0.040000	406061	0.6	20.0		

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528d.b/064jSEQ-PEM4.d

Date : 29-MAY-2010 23:13

Client ID: PEMJJ

Instrument: tracegc84.i

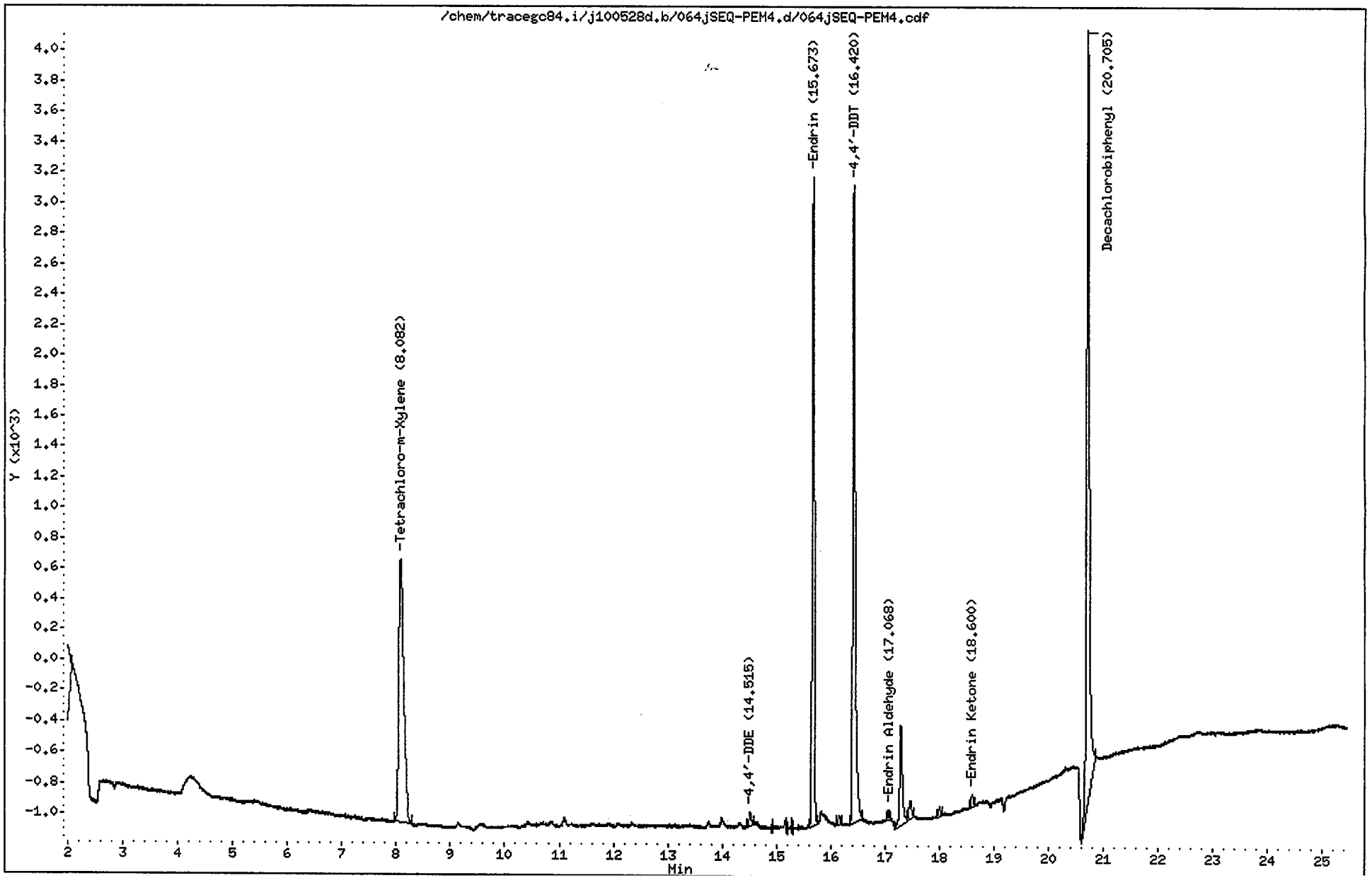
Sample Info: SEQ-PEM4

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM4 Client Smp Id : PEMJJ
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 23:13 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : PEMJJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.56			29591								
8.08	8.01	8.15	11002	522758	Tetrachloro-m-Xylene	0.021046	0.021046		106.3	43 - 135	
14.52	14.45	14.59	248	523741	4,4'-DDE	0.000473	0.000473	0.020000			J
15.67	15.61	15.75	10975	463071	Endrin	0.023701	0.023701	0.020000			
16.16			126								
16.42	16.35	16.49	13016	454781	4,4'-DDT	0.028620	0.028620	0.020000			
17.07	17.00	17.14	150	348470	Endrin Aldehyde	0.000430	0.000430	0.020000			J
17.29			2198								
17.47			428								
17.99			145								
18.60	18.53	18.67	215	457258	Endrin Ketone	0.000471	0.000471	0.020000			J
20.70	20.63	20.77	17201	408350	Decachlorobiphenyl	0.042122	0.042122		106.4	43 - 144	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528d_2C.b/063jSEQ-CCV4.d

Page 1

Date : 29-MAY-2010 22:44

Client ID: INDC3JJ

Instrument: tracegc84.i

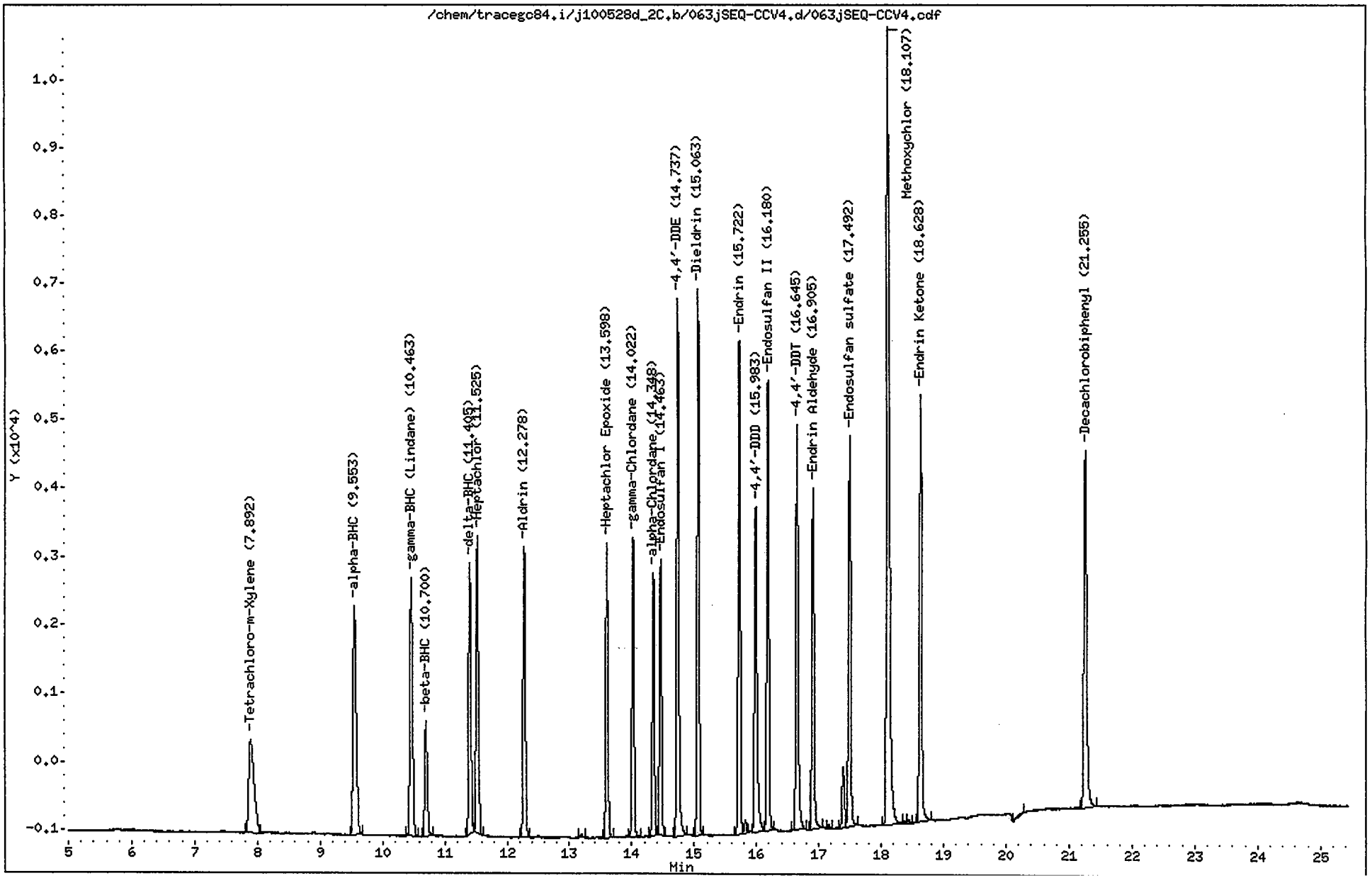
Sample Info: SEQ-CCV4

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV4 Client Smp Id : INDC3JJ
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 22:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3JJ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.55			8299								
7.89	7.82	7.96	8141	416798	Tetrachloro-m-Xylene	0.020000	407070	2.3	20.0		
9.55	9.48	9.62	11890	607758	alpha-BHC	0.020000	594500	2.2	20.0		
10.46	10.39	10.53	11427	585542	gamma-BHC (Lindane)	0.020000	571370	2.4	20.0		
10.70	10.63	10.77	4693	248610	beta-BHC	0.020000	234660	5.6	20.0		
11.40	11.33	11.47	9995	551235	delta-BHC	0.020000	499730	9.3	20.0		
11.52	11.45	11.59	11519	579497	Heptachlor	0.020000	575930	0.6	20.0		
12.28	12.21	12.35	10651	542192	Aldrin	0.020000	532560	1.8	20.0		
13.19			129								
13.60	13.53	13.67	10034	511912	Heptachlor Epoxide	0.020000	501695	2.0	20.0		
14.02	13.95	14.09	10058	513150	gamma-Chlordane	0.020000	502910	2.0	20.0		
14.35	14.28	14.42	8684	446248	alpha-Chlordane	0.020000	434187	2.7	20.0		
14.46	14.39	14.53	9298	477982	Endosulfan I	0.020000	464923	2.7	20.0		
14.74	14.67	14.81	18548	468602	4,4'-DDE	0.040000	463697	1.0	20.0		
15.06	14.99	15.13	18095	461929	Dieldrin	0.040000	452366	2.1	20.0		
15.72	15.65	15.79	16550	408649	Endrin	0.040000	413740	-1.2	20.0		
15.82			399								
15.98	15.91	16.05	13002	340626	4,4'-DDD	0.040000	325046	4.6	20.0		
16.18	16.11	16.25	15432	404930	Endosulfan II	0.040000	385805	4.7	20.0		
16.64	16.57	16.71	14710	405929	4,4'-DDT	0.040000	367745	9.4	20.0		
16.90	16.83	16.97	12038	316985	Endrin Aldehyde	0.040000	300940	5.1	20.0		
17.16			115								
17.39			2311								
17.49	17.42	17.56	13886	366674	Endosulfan sulfate	0.040000	347139	5.3	20.0		
18.11	18.03	18.17	34971	182916	Methoxychlor	0.200000	174853	4.4	20.0		
18.38			100								
18.44			123								
18.63	18.56	18.70	15658	419519	Endrin Ketone	0.040000	391442	6.7	20.0		
20.28			211								
21.26	21.18	21.32	15562	406698	Decachlorobiphenyl	0.040000	389048	4.3	20.0		

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528d_2C.b/064jSEQ-PEM4.d

Page 1

Date : 29-MAY-2010 23:13

Client ID: PEMJJ

Instrument: tracegc84.i

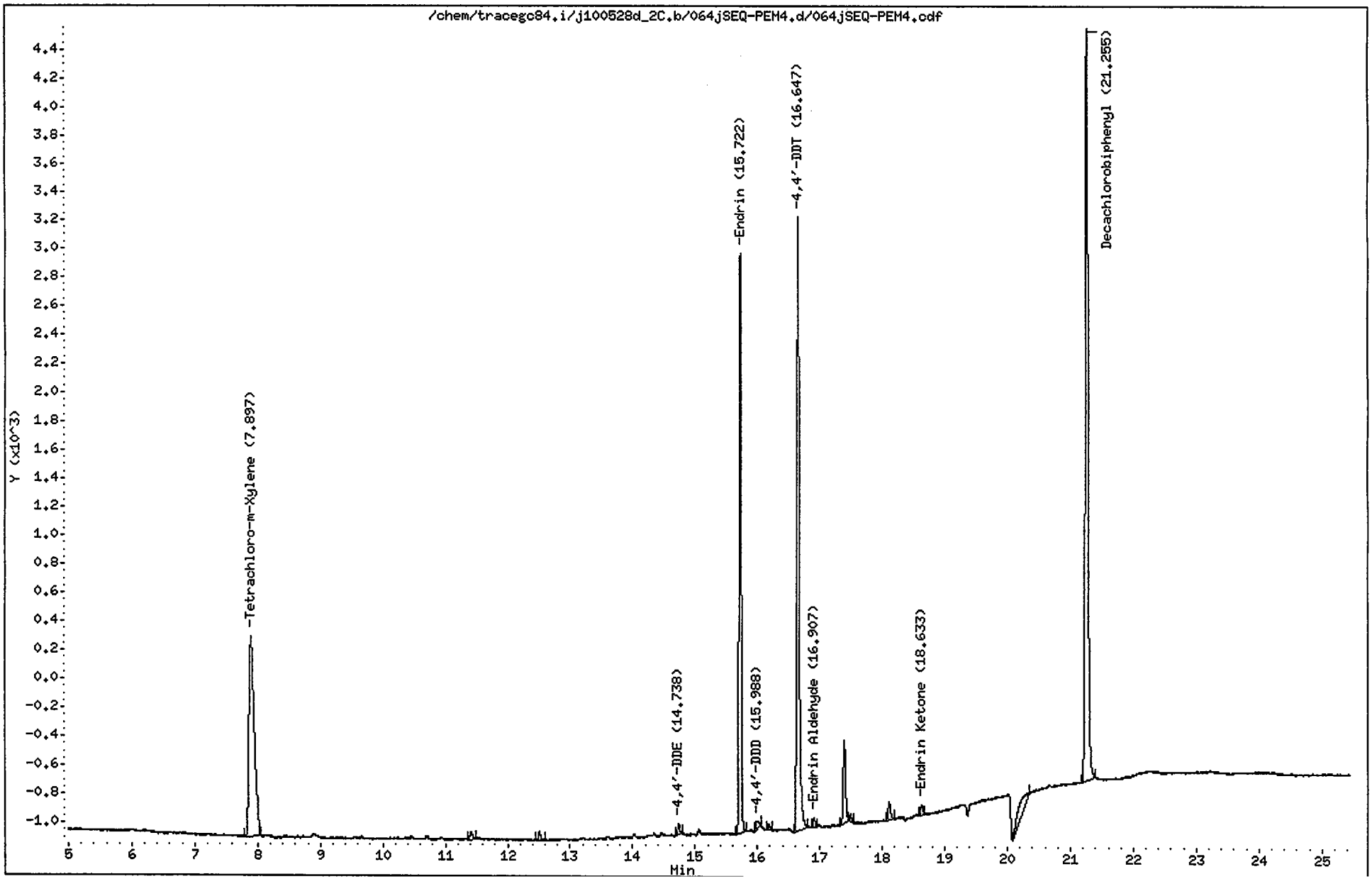
Sample Info: SEQ-PEM4

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM4 Client Smp Id : PEMJJ
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 23:13 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : PEMJJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

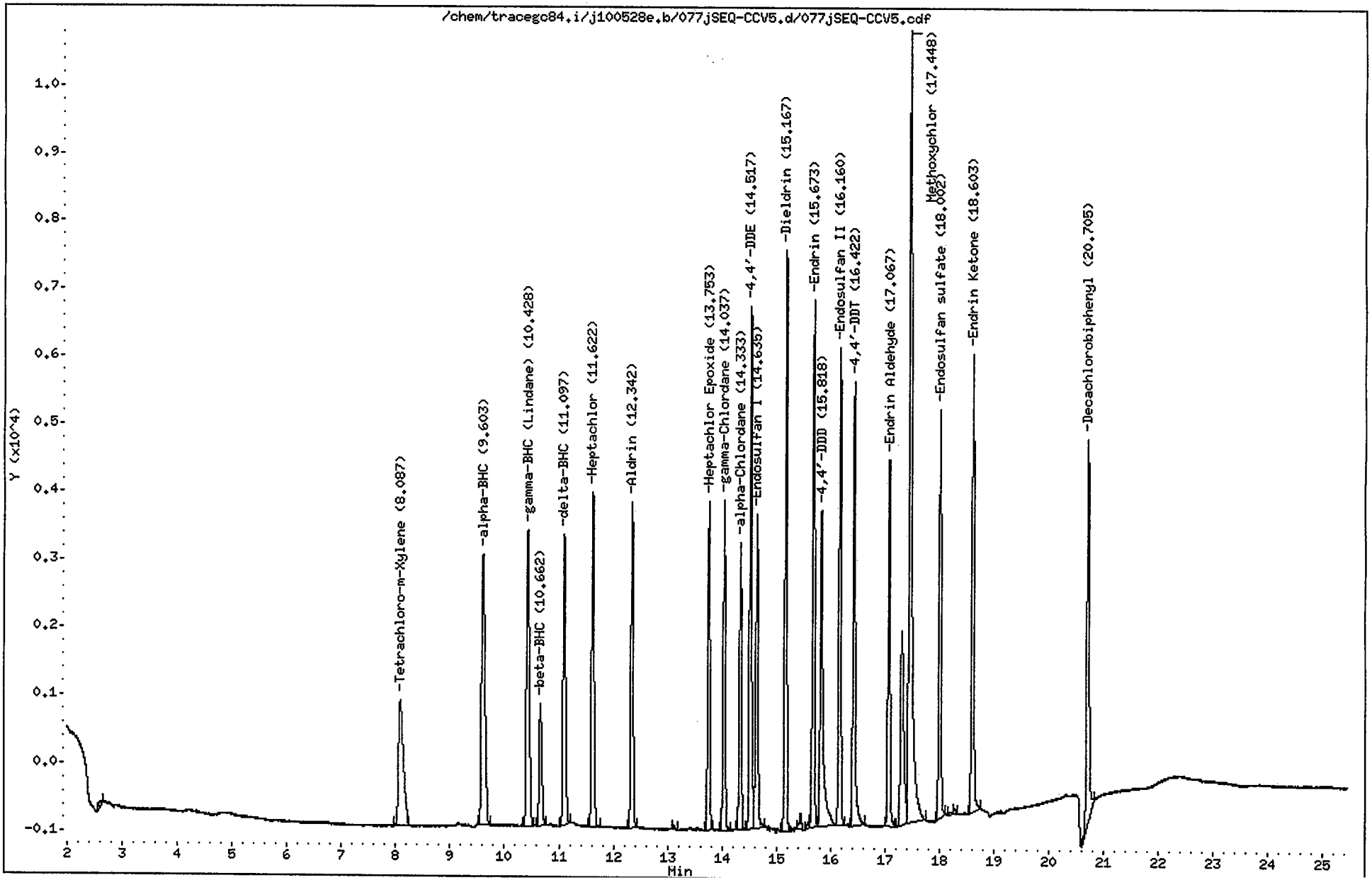
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.53			2778								
7.90	7.82	7.96	8305	416798	Tetrachloro-m-Xylene	0.019926	0.019926		100.6	43 - 135	
11.41			158								
12.51			160								
14.74	14.67	14.81	182	468602	4,4'-DDE	0.000389	0.000389	0.020000			J
15.72	15.65	15.79	9316	408649	Endrin	0.022796	0.022796	0.020000			
15.99	15.91	16.05	179	340626	4,4'-DDD	0.000525	0.000525	0.020000			J
16.18			109								
16.65	16.57	16.71	11202	405929	4,4'-DDT	0.027597	0.027597	0.020000			
16.91	16.83	16.97	139	316985	Endrin Aldehyde	0.000438	0.000438	0.020000			J
17.39			1461								
17.49			104								
18.11			336								
18.63	18.56	18.70	175	419519	Endrin Ketone	0.000417	0.000417	0.020000			J
20.35			1184								
21.26	21.18	21.32	15672	406698	Decachlorobiphenyl	0.038536	0.038536		97.3	43 - 144	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528e.b/077jSEQ-CCV5.d
Date : 30-MAY-2010 05:28
Client ID: INDC3JL
Sample Info: SEQ-CCV5
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

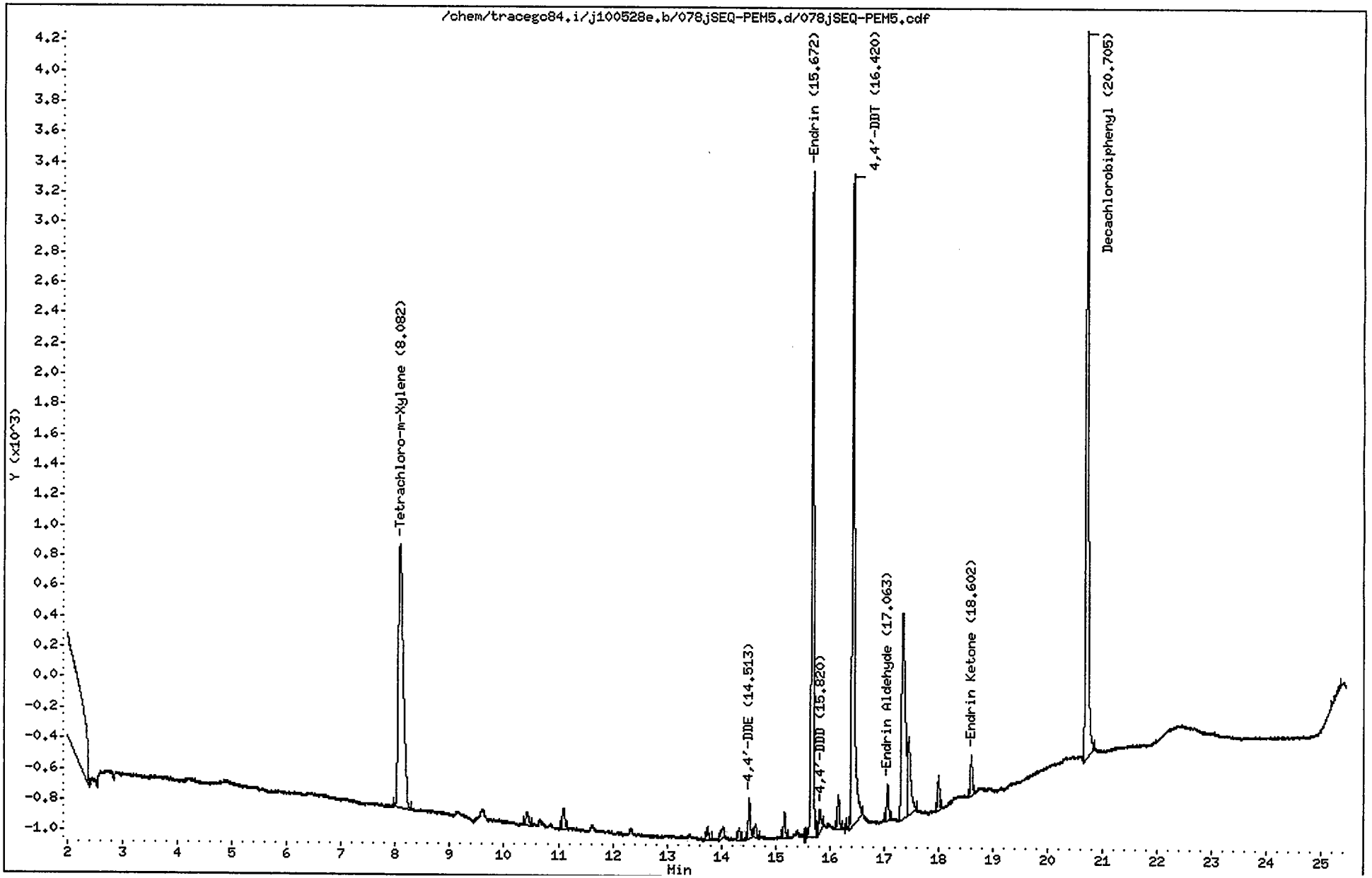
Lab Smp Id : SEQ-CCV5 Client Smp Id : INDC3JL
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 30-MAY-2010 05:28 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : INDC3JL

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.45			134								
1.56			3000								
2.61			262								
8.09	8.01	8.15	11498	522758	Tetrachloro-m-Xylene	0.020000	574900	-10.0	20.0		
9.60	9.53	9.67	16979	775960	alpha-BHC	0.020000	848950	-9.4	20.0		
10.43	10.36	10.50	15836	729192	gamma-BHC (Lindane)	0.020000	791750	-8.6	20.0		
10.66	10.59	10.73	6059	300532	beta-BHC	0.020000	302900	-0.8	20.0		
11.10	11.02	11.16	13737	689518	delta-BHC	0.020000	686800	0.4	20.0		
11.62	11.55	11.69	15142	695465	Heptachlor	0.020000	757100	-8.9	20.0		
12.34	12.27	12.41	13758	636570	Aldrin	0.020000	687850	-8.1	20.0		
13.12			168								
13.75	13.68	13.82	12591	593700	Heptachlor Epoxide	0.020000	629500	-6.0	20.0		
14.04	13.97	14.11	12679	594875	gamma-Chlordane	0.020000	633900	-6.6	20.0		
14.33	14.27	14.41	11013	516712	alpha-Chlordane	0.020000	550600	-6.6	20.0		
14.52	14.45	14.59	20466	523741	4,4'-DDE	0.040000	511650	2.3	20.0		
14.64	14.57	14.71	13112	548162	Endosulfan I	0.020000	655600	-19.6	20.0		
15.17	15.10	15.24	21928	515556	Dieldrin	0.040000	548200	-6.3	20.0		
15.45			677								
15.58			260								
15.67	15.61	15.75	20195	463071	Endrin	0.040000	504875	-9.0	20.0		
15.82	15.75	15.89	16385	393458	4,4'-DDD	0.040000	409625	-4.1	20.0		
16.16	16.09	16.23	18405	450326	Endosulfan II	0.040000	460125	-2.2	20.0		
16.42	16.35	16.49	18017	454781	4,4'-DDT	0.040000	450425	1.0	20.0		
17.07	17.00	17.14	14292	348470	Endrin Aldehyde	0.040000	357300	-2.5	20.0		
17.30			11581								
17.45	17.37	17.51	41430	194359	Methoxychlor	0.200000	207150	-6.6	20.0		
18.00	17.93	18.07	15711	392055	Endosulfan sulfate	0.040000	392775	-0.2	20.0		
18.22			127								
18.28			211								
18.60	18.53	18.67	18310	457258	Endrin Ketone	0.040000	457725	-0.1	20.0		
20.70	20.63	20.77	16590	408350	Decachlorobiphenyl	0.040000	414725	-1.6	20.0		

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528e.b/078jSEQ-PEM5.d
Date : 30-MAY-2010 05:57
Client ID: PEMJL
Sample Info: SEQ-PEM5
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM5 Client Smp Id : PEMJL
Sample Type : SAMPLE Sublist : PEM
Inj Date : 30-MAY-2010 05:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : PEMJL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.45		309								
1.56		56873								
8.08	8.01 8.15	10979	522758	Tetrachloro-m-Xylene	0.021000	0.021000		106.1	43 - 135	
10.43		332								
11.10		446								
13.75		243								
14.00		261								
14.33		218								
14.51	14.45 14.59	650	523741	4,4'-DDE	0.001239	0.001239	0.020000			J
14.63		246								
15.17		413								
15.67	15.61 15.75	11614	463071	Endrin	0.025080	0.025080	0.020000			
15.82	15.75 15.89	442	393458	4,4'-DDD	0.001123	0.001123	0.020000			J
16.16		555								
16.42	16.35 16.49	12724	454781	4,4'-DDT	0.027978	0.027978	0.020000			
17.06	17.00 17.14	592	348470	Endrin Aldehyde	0.001696	0.001696	0.020000			J
17.34		6340								
17.45		2085								
18.00		577								
18.60	18.53 18.67	694	457258	Endrin Ketone	0.001516	0.001516	0.020000			J
20.70	20.63 20.77	14267	408350	Decachlorobiphenyl	0.034938	0.034938		88.2	43 - 144	
25.34		167								

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528e_2C.b/077jSEQ-CCV5.d

Date : 30-MAY-2010 05:28

Client ID: INDC3JL

Sample Info: SEQ-CCV5

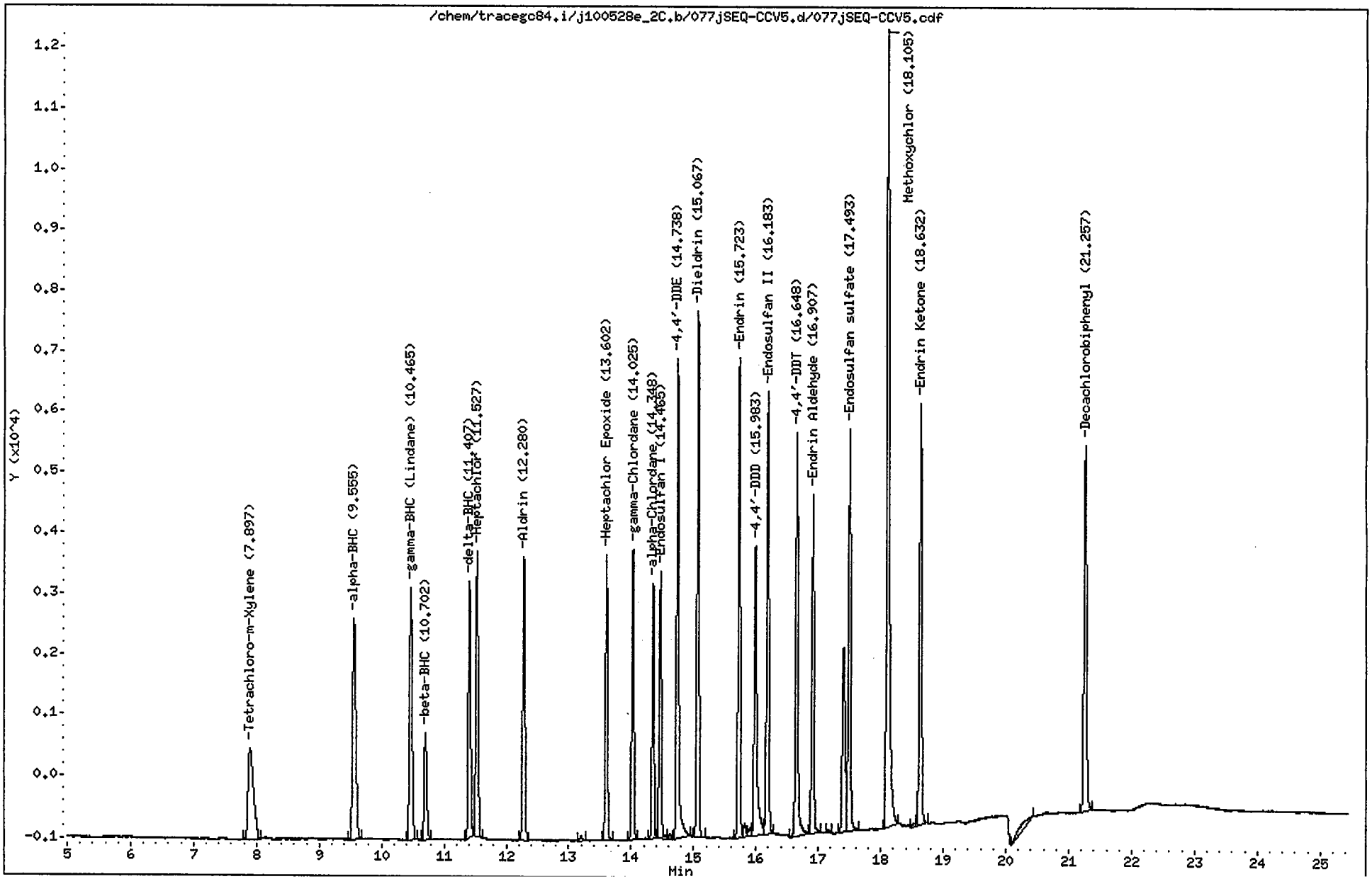
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV5 Client Smp Id : INDC3JL
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 30-MAY-2010 05:28 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3JL

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.56			7767								
2.51			100								
7.90	7.82	7.96	8799	416798	Tetrachloro-m-Xylene	0.020000	439965	-5.6	20.0		
9.56	9.48	9.62	12917	607758	alpha-BHC	0.020000	645835	-6.3	20.0		
10.46	10.39	10.53	12428	585542	gamma-BHC (Lindane)	0.020000	621405	-6.1	20.0		
10.70	10.63	10.77	4904	248610	beta-BHC	0.020000	245197	1.4	20.0		
11.41	11.33	11.47	10538	551235	delta-BHC	0.020000	526883	4.4	20.0		
11.53	11.45	11.59	12473	579497	Heptachlor	0.020000	623643	-7.6	20.0		
12.28	12.21	12.35	11541	542192	Aldrin	0.020000	577063	-6.4	20.0		
13.19			213								
13.60	13.53	13.67	10827	511912	Heptachlor Epoxide	0.020000	541330	-5.7	20.0		
14.02	13.95	14.09	10803	513150	gamma-Chlordane	0.020000	540135	-5.3	20.0		
14.35	14.28	14.42	9363	446248	alpha-Chlordane	0.020000	468128	-4.9	20.0		
14.46	14.39	14.53	10129	477982	Endosulfan I	0.020000	506427	-6.0	20.0		
14.62			161								
14.74	14.67	14.81	19180	468602	4,4'-DDE	0.040000	479510	-2.3	20.0		
15.07	14.99	15.13	19600	461929	Dieldrin	0.040000	489995	-6.1	20.0		
15.72	15.65	15.79	18000	408649	Endrin	0.040000	450009	-10.1	20.0		
15.82			466								
15.90			373								
15.98	15.91	16.05	13500	340626	4,4'-DDD	0.040000	337498	0.9	20.0		
16.18	16.11	16.25	17025	404930	Endosulfan II	0.040000	425614	-5.1	20.0		
16.65	16.57	16.71	16280	405929	4,4'-DDT	0.040000	407012	-0.3	20.0		
16.91	16.83	16.97	12911	316985	Endrin Aldehyde	0.040000	322787	-1.8	20.0		
17.16			151								
17.40			9574								
17.49	17.42	17.56	16173	366674	Endosulfan sulfate	0.040000	404336	-10.3	20.0		
18.10	18.03	18.17	36886	182916	Methoxychlor	0.200000	184431	-0.8	20.0		
18.55			175								
18.63	18.56	18.70	16955	419519	Endrin Ketone	0.040000	423875	-1.0	20.0		
20.44			1577								
21.26	21.18	21.32	16720	406698	Decachlorobiphenyl	0.040000	418000	-2.8	20.0		

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528e_2C.b/078jSEQ-PEM5.d

Page 1

Date : 30-MAY-2010 05:57

Client ID: PEMJL

Instrument: tracegc84.i

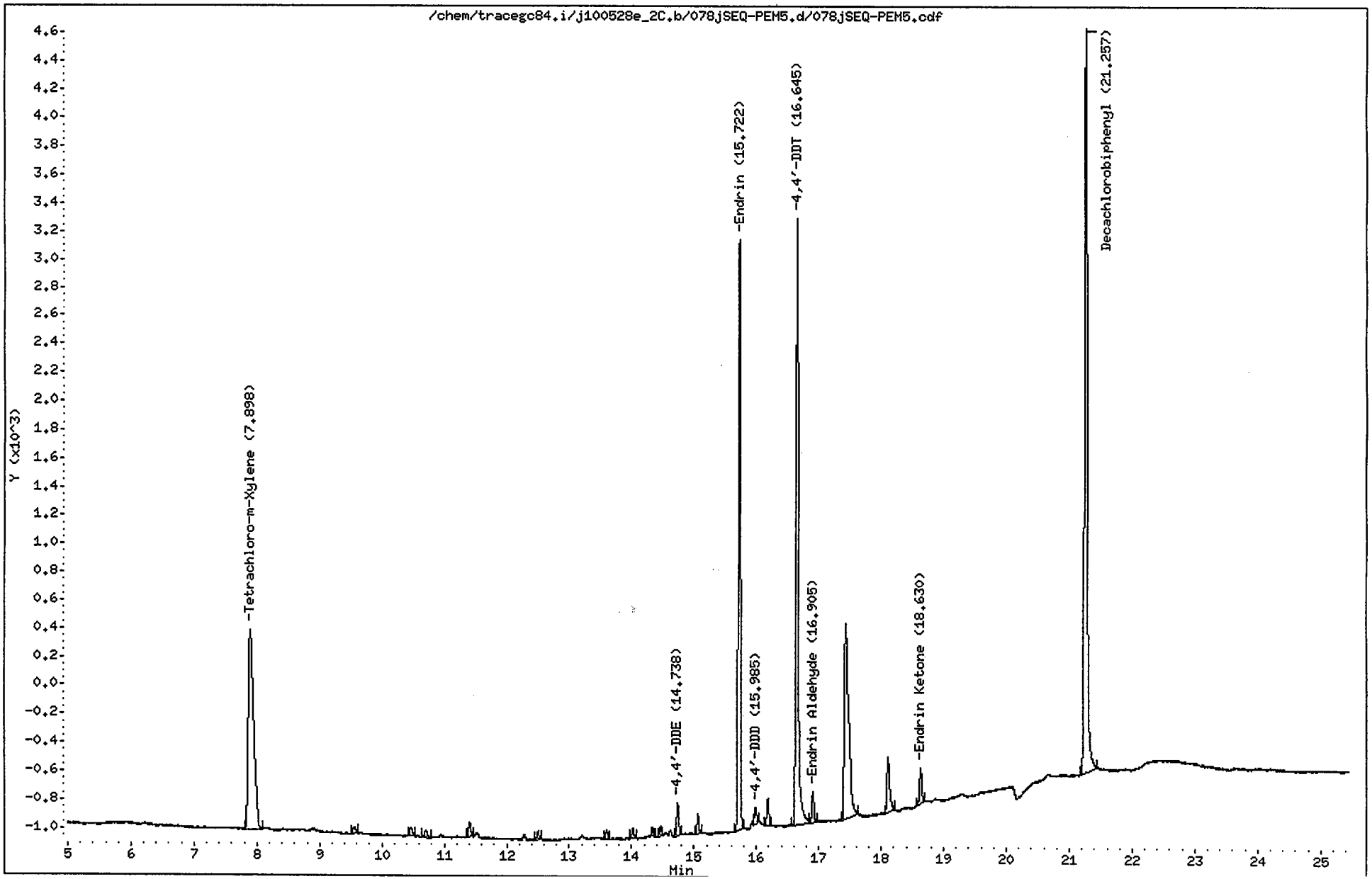
Sample Info: SEQ-PEM5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM5 Client Smp Id : PEMJL
Sample Type : SAMPLE Sublist : PEM
Inj Date : 30-MAY-2010 05:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : PEMJL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.55			2640								
7.90	7.82	7.96	8357	416798	Tetrachloro-m-Xylene	0.020050	0.020050		101.3	43 - 135	
9.55			150								
10.46			185								
10.70			159								
11.40			270								
12.50			142								
13.60			155								
14.02			157								
14.35			132								
14.46			148								
14.74	14.67	14.81	533	468602	4,4'-DDE	0.001137	0.001137	0.020000			J
15.07			299								
15.72	15.65	15.79	9520	408649	Endrin	0.023297	0.023297	0.020000			
15.98	15.91	16.05	311	340626	4,4'-DDD	0.000914	0.000914	0.020000			J
16.18			424								
16.64	16.57	16.71	10969	405929	4,4'-DDT	0.027023	0.027023	0.020000			
16.90	16.83	16.97	508	316985	Endrin Aldehyde	0.001602	0.001602	0.020000			J
17.43			6729								
18.11			1202								
18.63	18.56	18.70	622	419519	Endrin Ketone	0.001483	0.001483	0.020000			J
21.26	21.18	21.32	15567	406698	Decachlorobiphenyl	0.038276	0.038276		96.7	43 - 144	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528f.b/085jSEQ-CCV6.d

Date : 30-MAY-2010 09:20

Client ID: INDC3JN

Instrument: tracegc84.i

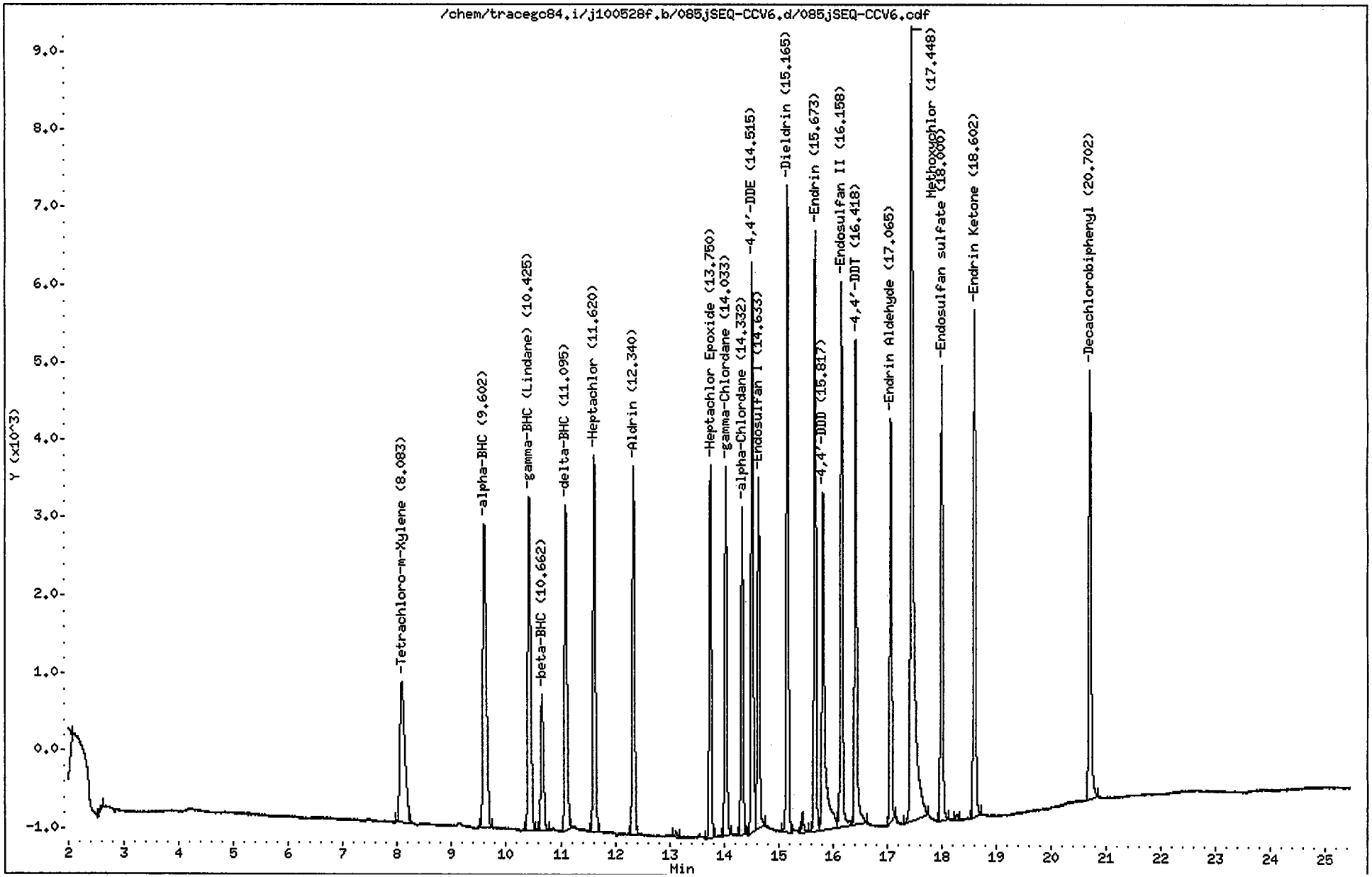
Sample Info: SEQ-CCV6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV6 Client Smp Id : INDC3JN
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 30-MAY-2010 09:20 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528f.b/8081A_clpestv6.m
Misc. Info : INDC3JN

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.55			33051								
2.60			261								
8.08	8.01	8.15	11260	522758	Tetrachloro-m-Xylene	0.020000	562980	-7.7	20.0		
9.60	9.53	9.67	16663	775960	alpha-BHC	0.020000	833163	-7.4	20.0		
10.42	10.36	10.50	15539	729192	gamma-BHC (Lindane)	0.020000	776940	-6.5	20.0		
10.66	10.59	10.73	5940	300532	beta-BHC	0.020000	297013	1.2	20.0		
11.10	11.02	11.16	13301	689518	delta-BHC	0.020000	665027	3.6	20.0		
11.62	11.55	11.69	14795	695465	Heptachlor	0.020000	739763	-6.4	20.0		
12.34	12.27	12.41	13571	636570	Aldrin	0.020000	678555	-6.6	20.0		
13.12			172								
13.75	13.68	13.82	12536	593700	Heptachlor Epoxide	0.020000	626790	-5.6	20.0		
14.03	13.97	14.11	12620	594875	gamma-Chlordane	0.020000	630997	-6.1	20.0		
14.33	14.27	14.41	10870	516712	alpha-Chlordane	0.020000	543492	-5.2	20.0		
14.52	14.45	14.59	19365	523741	4,4'-DDE	0.040000	484124	7.6	20.0		
14.63	14.57	14.71	12670	548162	Endosulfan I	0.020000	633497	-15.6	20.0		
15.16	15.10	15.24	21644	515556	Dieldrin	0.040000	541098	-5.0	20.0		
15.45			592								
15.67	15.61	15.75	19948	463071	Endrin	0.040000	498691	-7.7	20.0		
15.82	15.75	15.89	15866	393458	4,4'-DDD	0.040000	396642	-0.8	20.0		
16.16	16.09	16.23	19033	450326	Endosulfan II	0.040000	475830	-5.7	20.0		
16.42	16.35	16.49	17389	454781	4,4'-DDT	0.040000	434727	4.4	20.0		
17.06	17.00	17.14	13473	348470	Endrin Aldehyde	0.040000	336827	3.3	20.0		
17.45	17.37	17.51	39644	194359	Methoxychlor	0.200000	198220	-2.0	20.0		
18.00	17.93	18.07	15603	392055	Endosulfan sulfate	0.040000	390081	0.5	20.0		
18.28			191								
18.60	18.53	18.67	17786	457258	Endrin Ketone	0.040000	444648	2.8	20.0		
20.70	20.63	20.77	16250	408350	Decachlorobiphenyl	0.040000	406240	0.5	20.0		

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528f.b/086jSEQ-PEM6.d

Date : 30-MAY-2010 09:49

Client ID: PEMJN

Instrument: tracegc84.i

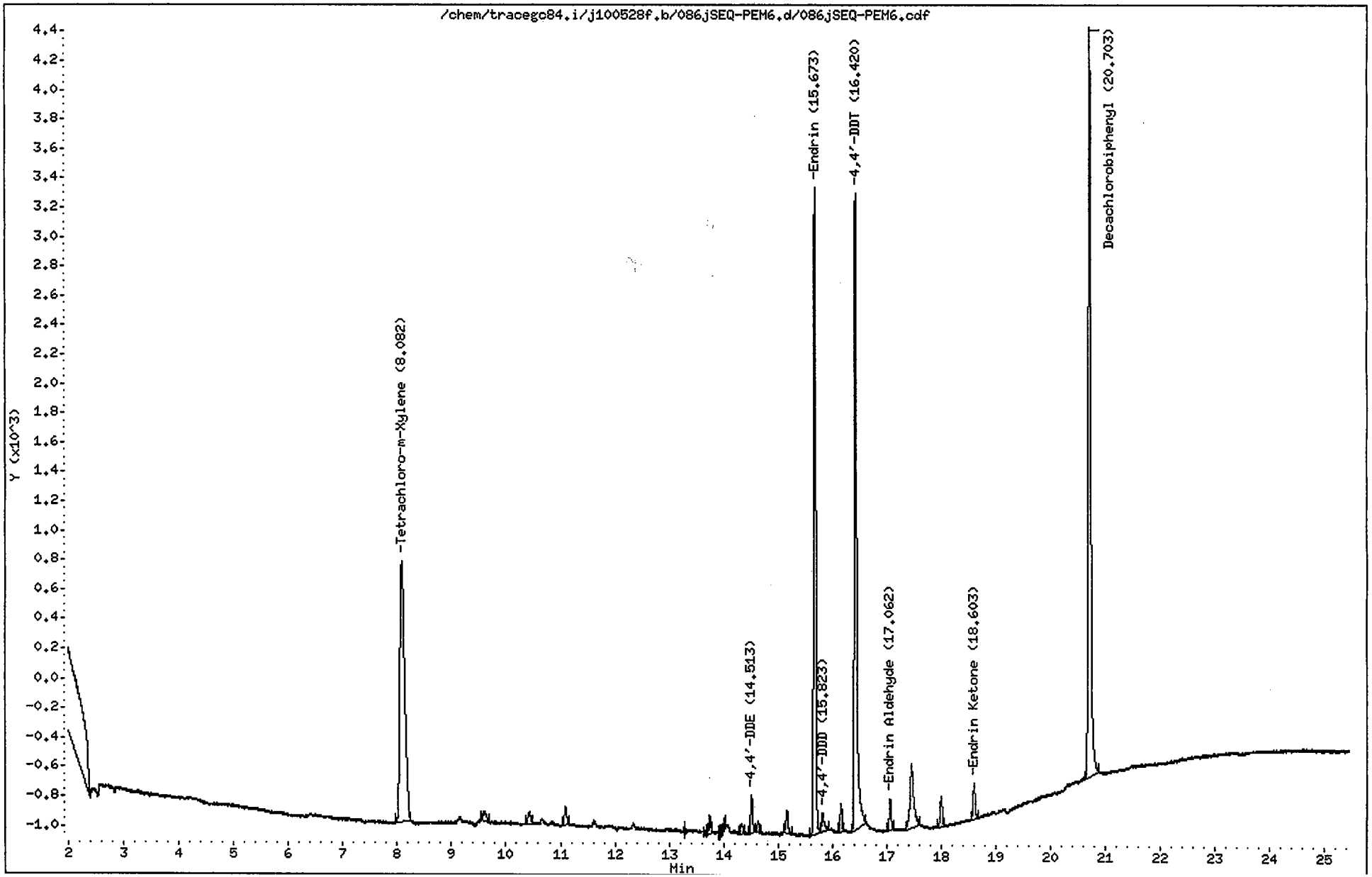
Sample Info: SEQ-PEM6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM6 Client Smp Id : PEMJN
Sample Type : SAMPLE Sublist : PEM
Inj Date : 30-MAY-2010 09:49 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528f.b/8081A_clpestv6.m
Misc. Info : PEMJN

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.56			53821								
8.08	8.01	8.15	10957	522758	Tetrachloro-m-Xylene	0.020960	0.020960		105.9	43 - 135	
9.60			283								
10.43			304								
11.10			371								
13.74			251								
14.01			201								
14.34			163								
14.51	14.45	14.59	657	523741	4,4'-DDE	0.001255	0.001255	0.020000			J
14.63			209								
15.17			416								
15.67	15.61	15.75	11480	463071	Endrin	0.024790	0.024790	0.020000			
15.82	15.75	15.89	470	393458	4,4'-DDD	0.001194	0.001194	0.020000			J
16.16			478								
16.42	16.35	16.49	12879	454781	4,4'-DDT	0.028319	0.028319	0.020000			
17.06	17.00	17.14	533	348470	Endrin Aldehyde	0.001530	0.001530	0.020000			J
17.45			2097								
18.00			533								
18.60	18.53	18.67	666	457258	Endrin Ketone	0.001457	0.001457	0.020000			J
20.70	20.63	20.77	15882	408350	Decachlorobiphenyl	0.038894	0.038894		98.2	43 - 144	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528f_2C.b/085jSEQ-CCV6.d

Page 1

Date : 30-MAY-2010 09:20

Client ID: INDC3JN

Instrument: tracegc84.i

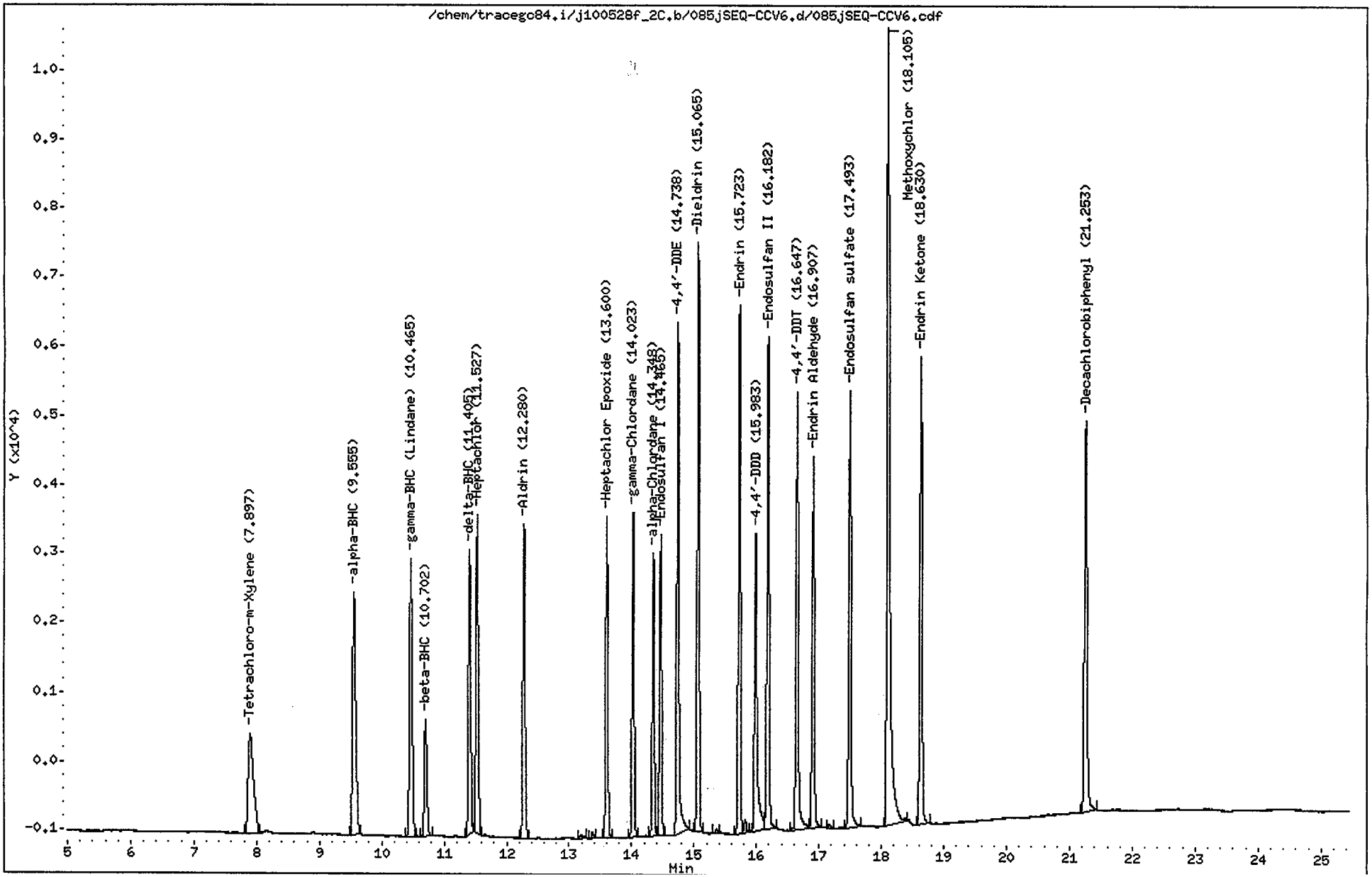
Sample Info: SEQ-CCV6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV6 Client Smp Id : INDC3JN
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 30-MAY-2010 09:20 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528f_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3JN

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.54			2055								
2.50			124								
7.90	7.82	7.96	8567	416798	Tetrachloro-m-Xylene	0.020000	428325	-2.8	20.0		
9.56	9.48	9.62	12560	607758	alpha-BHC	0.020000	627988	-3.3	20.0		
10.46	10.39	10.53	12148	585542	gamma-BHC (Lindane)	0.020000	607382	-3.7	20.0		
10.70	10.63	10.77	4824	248610	beta-BHC	0.020000	241210	3.0	20.0		
11.40	11.33	11.47	10208	551235	delta-BHC	0.020000	510380	7.4	20.0		
11.53	11.45	11.59	12244	579497	Heptachlor	0.020000	612200	-5.6	20.0		
12.28	12.21	12.35	11334	542192	Aldrin	0.020000	566705	-4.5	20.0		
13.19			157								
13.38			194								
13.60	13.53	13.67	10639	511912	Heptachlor Epoxide	0.020000	531955	-3.9	20.0		
14.02	13.95	14.09	10687	513150	gamma-Chlordane	0.020000	534330	-4.1	20.0		
14.35	14.28	14.42	9221	446248	alpha-Chlordane	0.020000	461052	-3.3	20.0		
14.46	14.39	14.53	9854	477982	Endosulfan I	0.020000	492702	-3.1	20.0		
14.74	14.67	14.81	18009	468602	4,4'-DDE	0.040000	450220	3.9	20.0		
15.06	14.99	15.13	19195	461929	Dieldrin	0.040000	479864	-3.9	20.0		
15.36			128								
15.72	15.65	15.79	17528	408649	Endrin	0.040000	438200	-7.2	20.0		
15.82			445								
15.98	15.91	16.05	12191	340626	4,4'-DDD	0.040000	304774	10.5	20.0		
16.18	16.11	16.25	17141	404930	Endosulfan II	0.040000	428526	-5.8	20.0		
16.65	16.57	16.71	15648	405929	4,4'-DDT	0.040000	391200	3.6	20.0		
16.91	16.83	16.97	12624	316985	Endrin Aldehyde	0.040000	315596	0.4	20.0		
17.16			141								
17.49	17.42	17.56	15619	366674	Endosulfan sulfate	0.040000	390487	-6.5	20.0		
18.10	18.03	18.17	35260	182916	Methoxychlor	0.200000	176302	3.6	20.0		
18.63	18.56	18.70	16546	419519	Endrin Ketone	0.040000	413652	1.4	20.0		
21.25	21.18	21.32	16378	406698	Decachlorobiphenyl	0.040000	409442	-0.7	20.0		

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528f_2C.b/086jSEQ-PEM6.d

Date : 30-MAY-2010 09:49

Client ID: PEMJN

Instrument: tracegc84.i

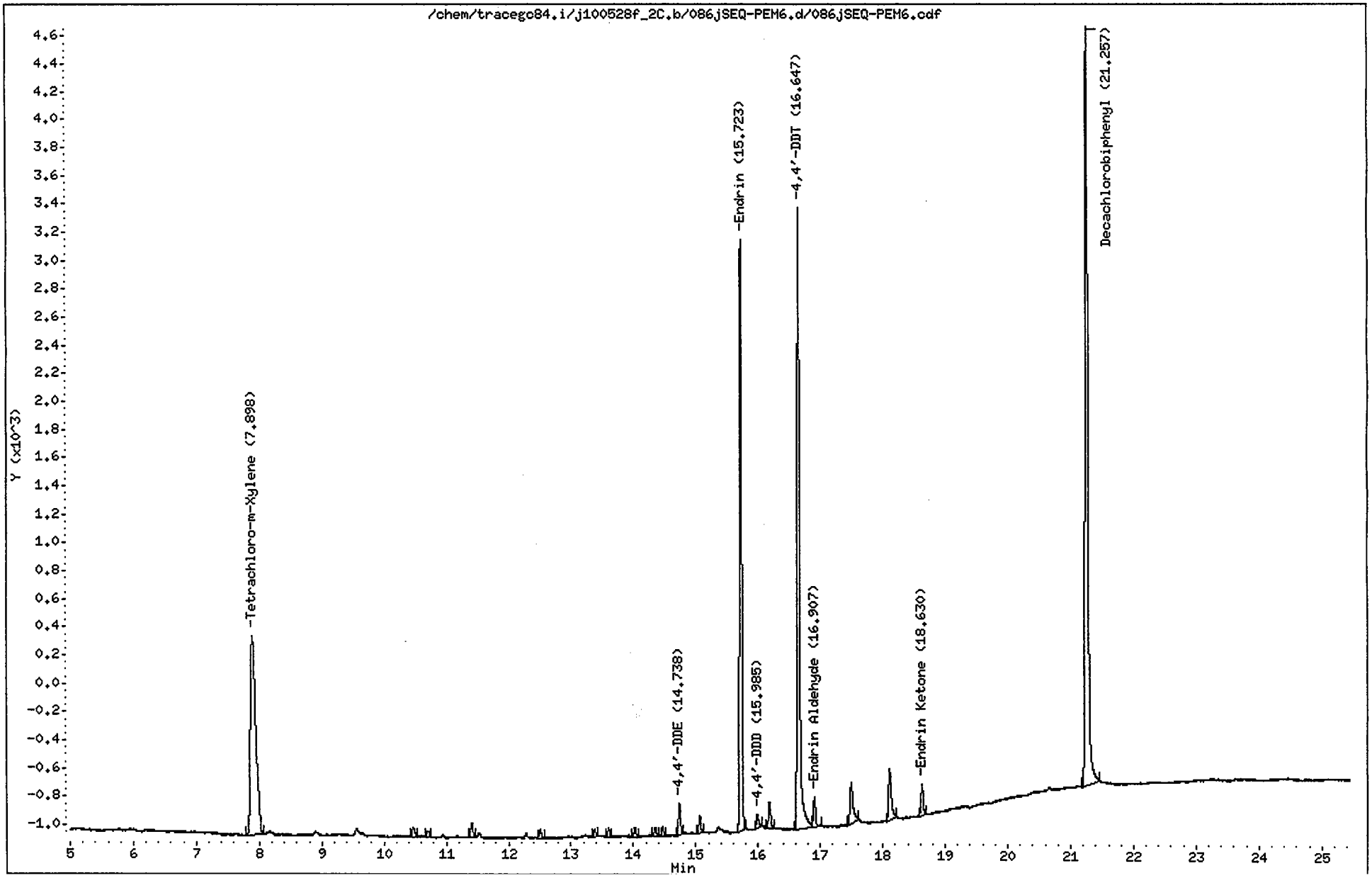
Sample Info: SEQ-PEM6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM6 Client Smp Id : PEMJN
Sample Type : SAMPLE Sublist : PEM
Inj Date : 30-MAY-2010 09:49 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528f_2C.b/8081A_clpest2v6.m
Misc. Info : PEMJN

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

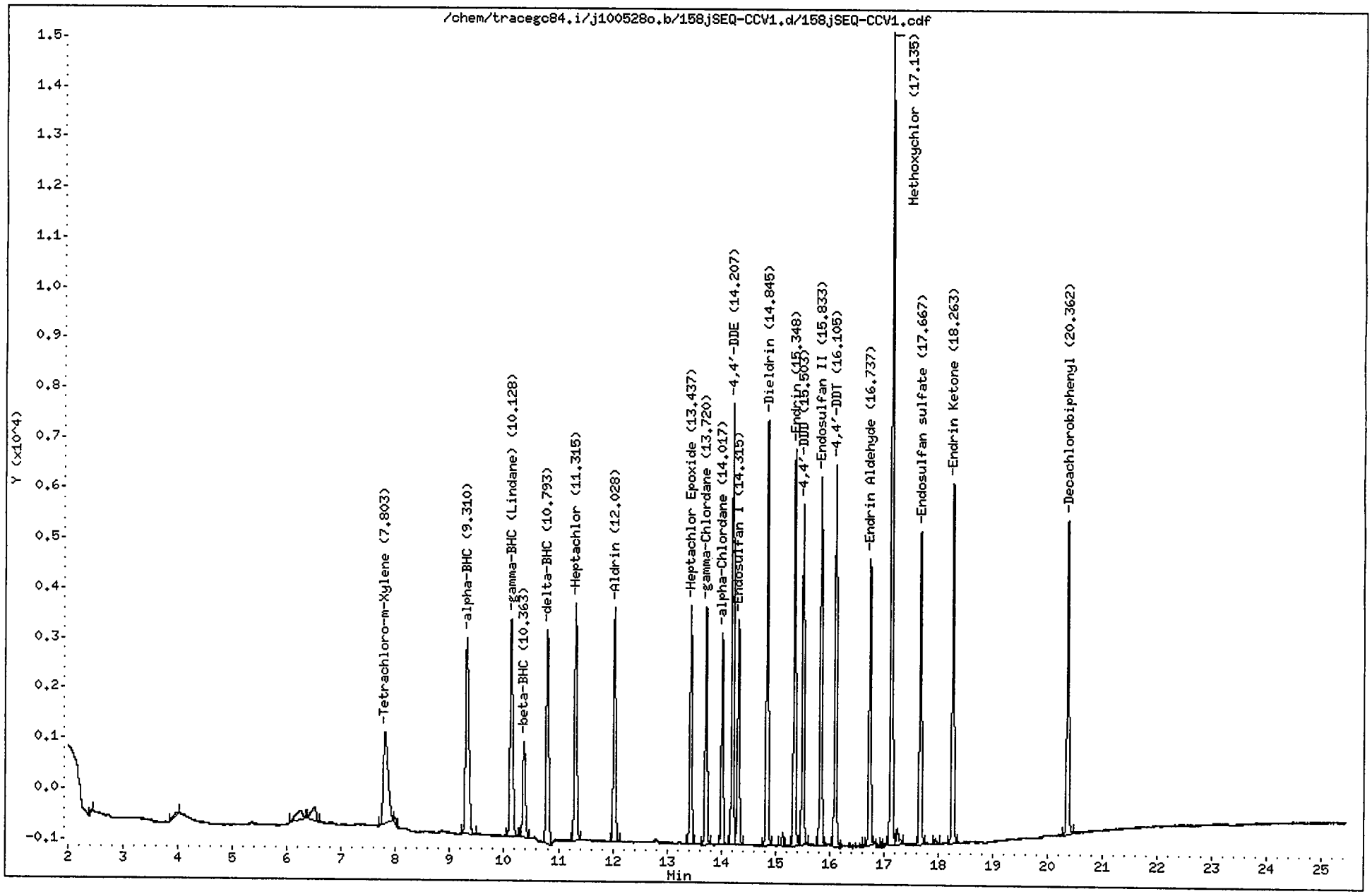
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.55			6183								
7.90	7.82	7.96	8367	416798	Tetrachloro-m-Xylene	0.020074	0.020074		101.4	43 - 135	
10.47			195								
10.70			117								
11.41			254								
12.51			148								
13.37			112								
13.60			142								
14.03			152								
14.35			135								
14.46			152								
14.74	14.67	14.81	510	468602	4,4'-DDE	0.001088	0.001088	0.020000			J
15.06			278								
15.72	15.65	15.79	9671	408649	Endrin	0.023665	0.023665	0.020000			
15.98	15.91	16.05	282	340626	4,4'-DDD	0.000828	0.000828	0.020000			J
16.18			425								
16.65	16.57	16.71	11419	405929	4,4'-DDT	0.028132	0.028132	0.020000			
16.91	16.83	16.97	550	316985	Endrin Aldehyde	0.001735	0.001735	0.020000			J
17.49			958								
18.11			1113								
18.63	18.56	18.70	530	419519	Endrin Ketone	0.001264	0.001264	0.020000			J
21.26	21.18	21.32	16094	406698	Decachlorobiphenyl	0.039572	0.039572		99.9	43 - 144	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528o.b/158jSEQ-CCV1.d
Date : 03-JUN-2010 13:33
Client ID: INDC3KF
Sample Info: SEQ-CCV1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3KF
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 03-JUN-2010 13:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : INDC3KF

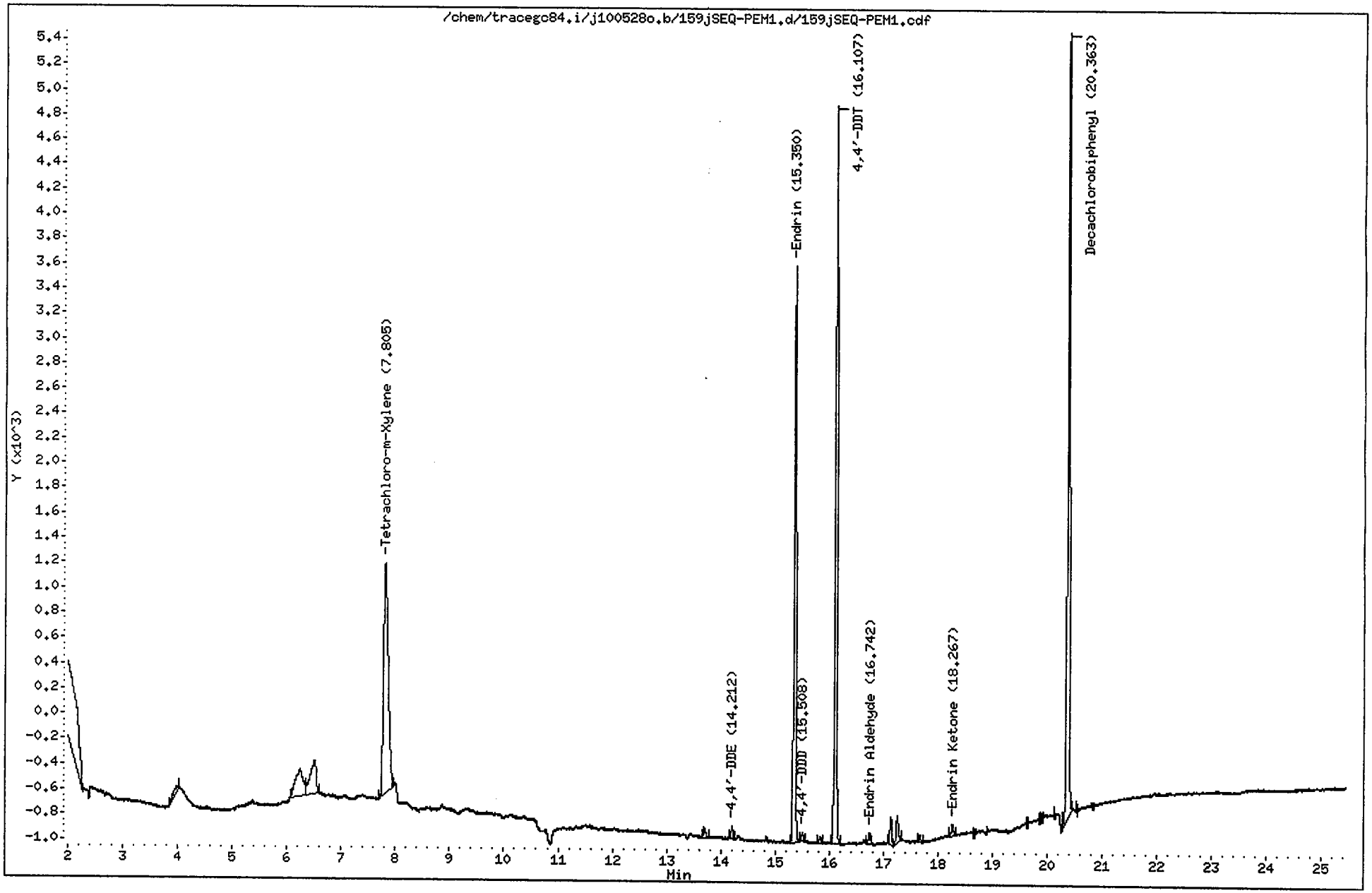
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.44			41014								
2.42			121								
4.00			430								
6.25			1541								
6.51			1620								
7.80	7.77	7.91	10854	522758	Tetrachloro-m-Xylene	0.020000	542692	-3.8	20.0		
8.00			385								
9.31	9.29	9.43	16195	775960	alpha-BHC	0.020000	809732	-4.4	20.0		
10.13	10.11	10.25	15147	729192	gamma-BHC (Lindane)	0.020000	757355	-3.9	20.0		
10.36	10.34	10.48	6302	300532	beta-BHC	0.020000	315120	-4.9	20.0		
10.79	10.77	10.91	13134	689518	delta-BHC	0.020000	656720	4.8	20.0		
11.32	11.29	11.43	14258	695465	Heptachlor	0.020000	712877	-2.5	20.0		
12.03	12.01	12.15	13164	636570	Aldrin	0.020000	658200	-3.4	20.0		
13.44	13.42	13.56	12182	593700	Heptachlor Epoxide	0.020000	609080	-2.6	20.0		
13.72	13.70	13.84	12142	594875	gamma-Chlordane	0.020000	607098	-2.1	20.0		
14.02	14.00	14.14	10658	516712	alpha-Chlordane	0.020000	532890	-3.1	20.0		
14.21	14.19	14.33	21396	523741	4,4'-DDE	0.040000	534906	-2.1	20.0		
14.32	14.29	14.43	11445	548162	Endosulfan I	0.020000	572255	-4.4	20.0		
14.84	14.82	14.96	21238	515556	Dieldrin	0.040000	530947	-3.0	20.0		
15.13			593								
15.35	15.33	15.47	19821	463071	Endrin	0.040000	495519	-7.0	20.0		
15.50	15.48	15.62	16137	393458	4,4'-DDD	0.040000	403429	-2.5	20.0		
15.83	15.81	15.95	18506	450326	Endosulfan II	0.040000	462639	-2.7	20.0		
16.10	16.08	16.22	18545	454781	4,4'-DDT	0.040000	463620	-1.9	20.0		
16.64			154								
16.74	16.71	16.85	14396	348470	Endrin Aldehyde	0.040000	359904	-3.3	20.0		
16.89			132								
16.95			154								
17.14	17.11	17.25	38765	194359	Methoxychlor	0.200000	193827	0.3	20.0		
17.25			1015								
17.67	17.65	17.79	16046	392055	Endosulfan sulfate	0.040000	401157	-2.3	20.0		
17.94			239								
18.26	18.24	18.38	18259	457258	Endrin Ketone	0.040000	456484	0.2	20.0		
20.36	20.33	20.47	15970	408350	Decachlorobiphenyl	0.040000	399247	2.2	20.0		

6/3/10

Data File: /chem/tracegc84.i/j100528o.b/159jSEQ-PEM1.d
Date : 03-JUN-2010 14:02
Client ID: PEMKF
Sample Info: SEQ-PEM1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMKF
Sample Type : SAMPLE Sublist : PEM
Inj Date : 03-JUN-2010 14:02 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : PEMKF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

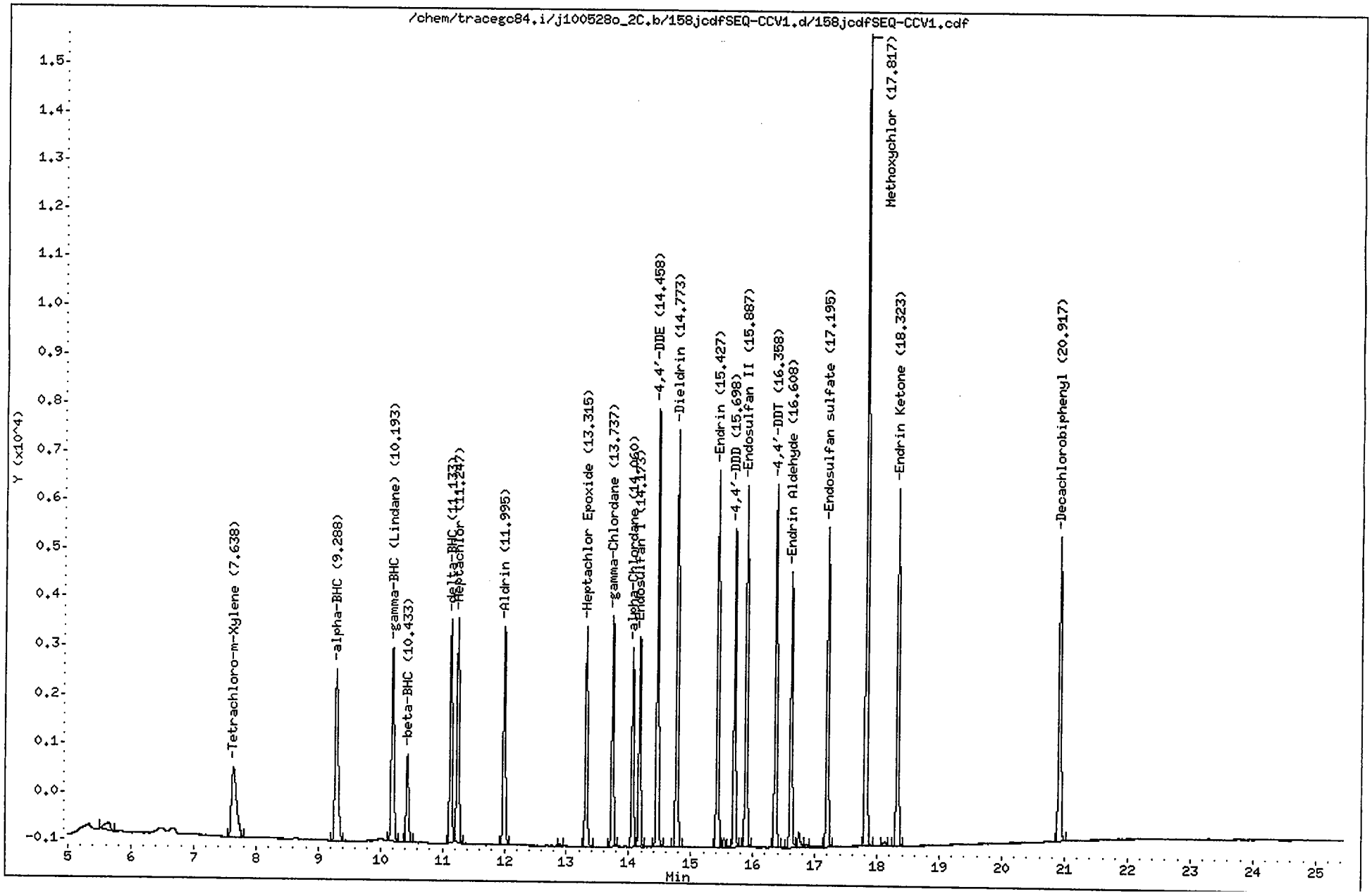
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.07			290								
1.43			75970								
3.99			272								
6.24			2064								
6.51			2045								
7.80	7.77	7.91	10969	522758	Tetrachloro-m-Xylene	0.020983	0.020983		106.0	43 - 135	
13.70			245								
14.21	14.19	14.33	231	523741	4,4'-DDE	0.000442	0.000442	0.020000			J
15.35	15.33	15.47	11651	463071	Endrin	0.025161	0.025161	0.020000			
15.51	15.48	15.62	177	393458	4,4'-DDD	0.000449	0.000449	0.020000			J
15.83			138								
16.11	16.08	16.22	14250	454781	4,4'-DDT	0.031335	0.031335	0.020000			
16.74	16.71	16.85	204	348470	Endrin Aldehyde	0.000584	0.000584	0.020000			J
17.14			522								
17.25			612								
17.67			157								
18.27	18.24	18.38	246	457258	Endrin Ketone	0.000539	0.000539	0.020000			J
20.36	20.33	20.47	16516	408350	Decachlorobiphenyl	0.040445	0.040445		102.1	43 - 144	

6/3/10

Data File: /chem/tracegc84.i/j100528o_2C.b/158jcdfSEQ-CCV1.d
Date : 03-JUN-2010 13:33
Client ID: INDC3KF
Sample Info: SEQ-CCV1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3KF
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 03-JUN-2010 13:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3KF

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.42			9537								
2.35			95								
5.65			999								
7.64	7.61	7.75	8219	416798	Tetrachloro-m-Xylene	0.020000	410955	1.4	20.0		
9.29	9.26	9.40	12163	607758	alpha-BHC	0.020000	608147	-0.1	20.0		
10.19	10.17	10.31	11583	585542	gamma-BHC (Lindane)	0.020000	579143	1.1	20.0		
10.43	10.41	10.55	4935	248610	beta-BHC	0.020000	246775	0.7	20.0		
11.13	11.11	11.25	10945	551235	delta-BHC	0.020000	547237	0.7	20.0		
11.25	11.22	11.36	11791	579497	Heptachlor	0.020000	589545	-1.7	20.0		
12.00	11.97	12.11	10932	542192	Aldrin	0.020000	546603	-0.8	20.0		
12.90			109								
13.32	13.29	13.43	10435	511912	Heptachlor Epoxide	0.020000	521725	-1.9	20.0		
13.74	13.71	13.85	10386	513150	gamma-Chlordane	0.020000	519275	-1.2	20.0		
14.06	14.04	14.18	9008	446248	alpha-Chlordane	0.020000	450405	-0.9	20.0		
14.17	14.15	14.29	9719	477982	Endosulfan I	0.020000	485933	-1.7	20.0		
14.46	14.43	14.57	19071	468602	4,4'-DDE	0.040000	476765	-1.7	20.0		
14.77	14.75	14.89	18990	461929	Dieldrin	0.040000	474745	-2.8	20.0		
15.43	15.40	15.54	17440	408649	Endrin	0.040000	436000	-6.7	20.0		
15.54			465								
15.70	15.67	15.81	13762	340626	4,4'-DDD	0.040000	344050	-1.0	20.0		
15.89	15.86	16.00	16604	404930	Endosulfan II	0.040000	415088	-2.5	20.0		
16.36	16.33	16.47	16179	405929	4,4'-DDT	0.040000	404464	0.4	20.0		
16.61	16.59	16.73	13080	316985	Endrin Aldehyde	0.040000	327010	-3.2	20.0		
16.74			945								
16.86			162								
17.20	17.17	17.31	14866	366674	Endosulfan sulfate	0.040000	371657	-1.4	20.0		
17.82	17.79	17.93	36733	182916	Methoxychlor	0.200000	183665	-0.4	20.0		
18.10			244								
18.32	18.30	18.44	16788	419519	Endrin Ketone	0.040000	419690	0.0	20.0		
20.92	20.90	21.04	15884	406698	Decachlorobiphenyl	0.040000	397094	2.4	20.0		

Data File: /chem/tracegc84.i/j100528o_2C.b/159jcdfSEQ-PEM1.d

Date : 03-JUN-2010 14:02

Client ID: PEMKF

Sample Info: SEQ-PEM1

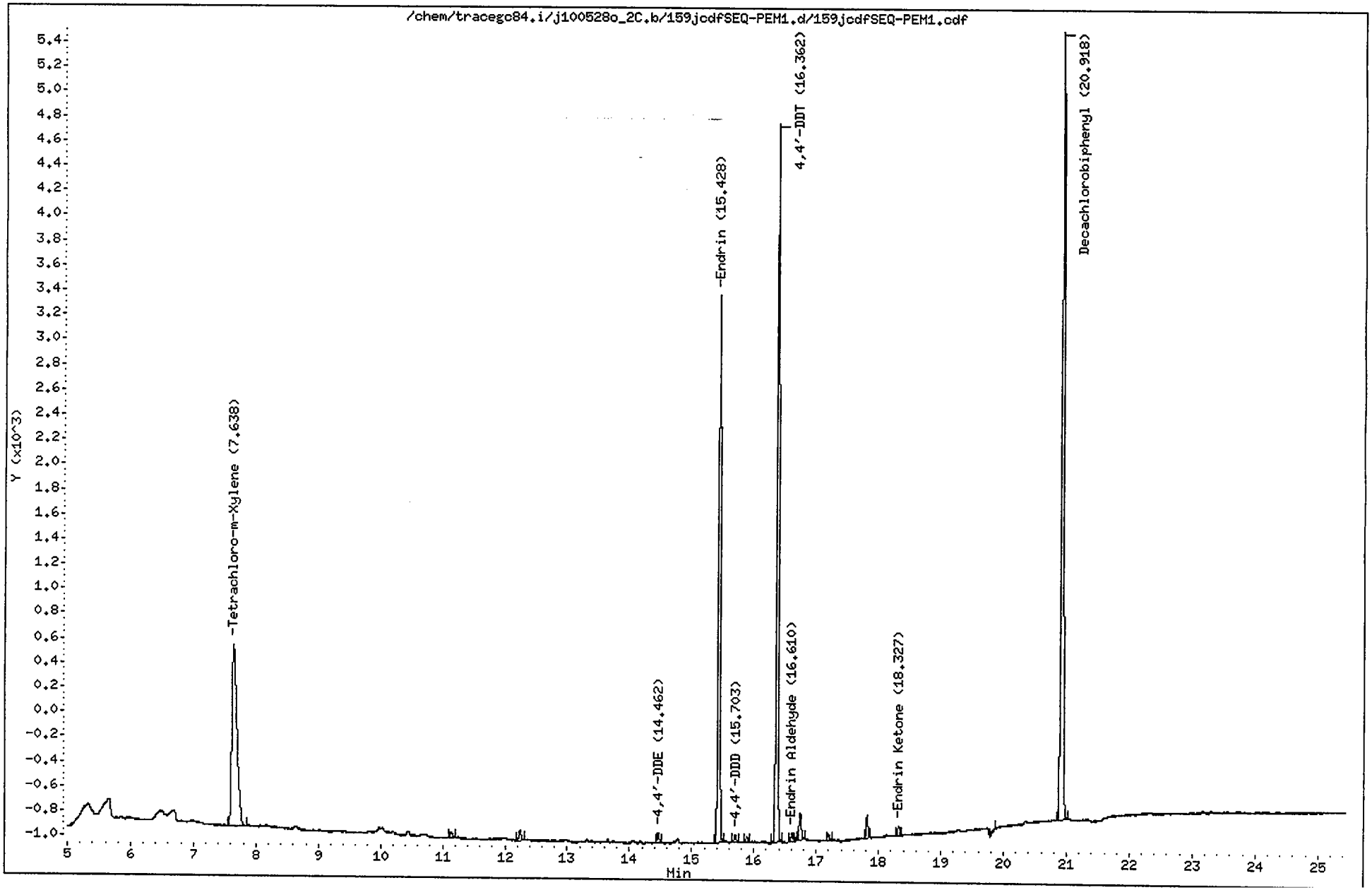
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMKF
Sample Type : SAMPLE Sublist : PEM
Inj Date : 03-JUN-2010 14:02 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : PEMKF

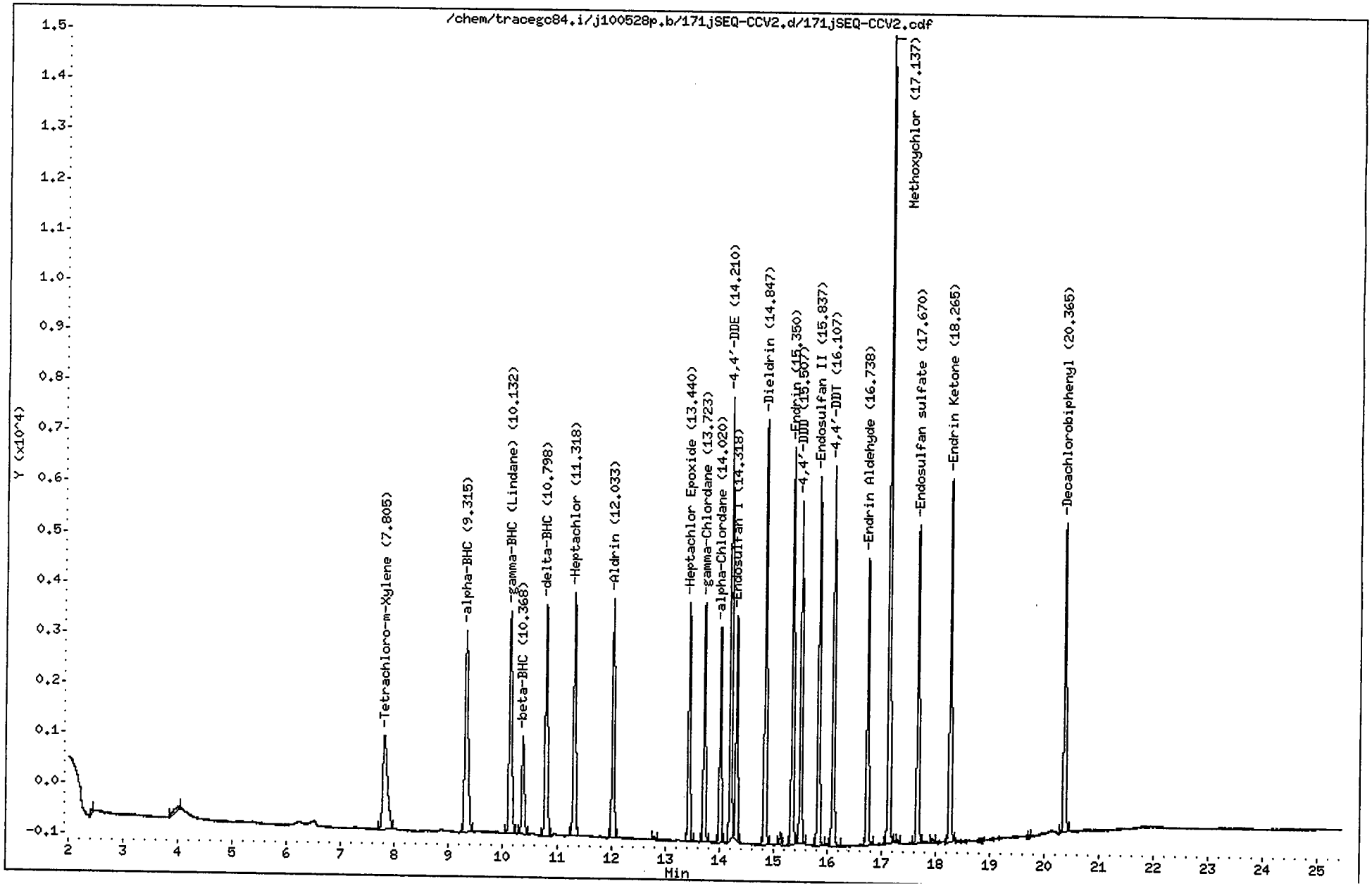
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.40			10912								
7.64	7.61	7.75	8359	416798	Tetrachloro-m-Xylene	0.020056	0.020056		101.3	43 - 135	
11.14			132								
12.25			199								
14.46	14.43	14.57	161	468602	4,4'-DDE	0.000344	0.000344	0.020000			J
15.43	15.40	15.54	9800	408649	Endrin	0.023981	0.023981	0.020000			
15.70	15.67	15.81	137	340626	4,4'-DDD	0.000402	0.000402	0.020000			J
15.89			95								
16.36	16.33	16.47	12354	405929	4,4'-DDT	0.030434	0.030434	0.020000			
16.61	16.59	16.73	161	316985	Endrin Aldehyde	0.000507	0.000507	0.020000			J
16.74			525								
17.20			128								
17.82			397								
18.33	18.30	18.44	177	419519	Endrin Ketone	0.000423	0.000423	0.020000			J
19.87			97								
20.92	20.90	21.04	16010	406698	Decachlorobiphenyl	0.039367	0.039367		99.4	43 - 144	

Data File: /chem/tracegc84.i/j100528p.b/171jSEQ-CCV2.d
Date : 03-JUN-2010 20:21
Client ID: ~~AR16603KH~~ INDC3KH
Sample Info: SEQ-CCV2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2
Sample Type : CONT CAL: Level 3
Inj Date : 03-JUN-2010 20:21
Operator : AHW
Method : /chem/tracegc84.i/j100528p.b/8081A_clpestv6.m
Misc. Info : AR16603KH

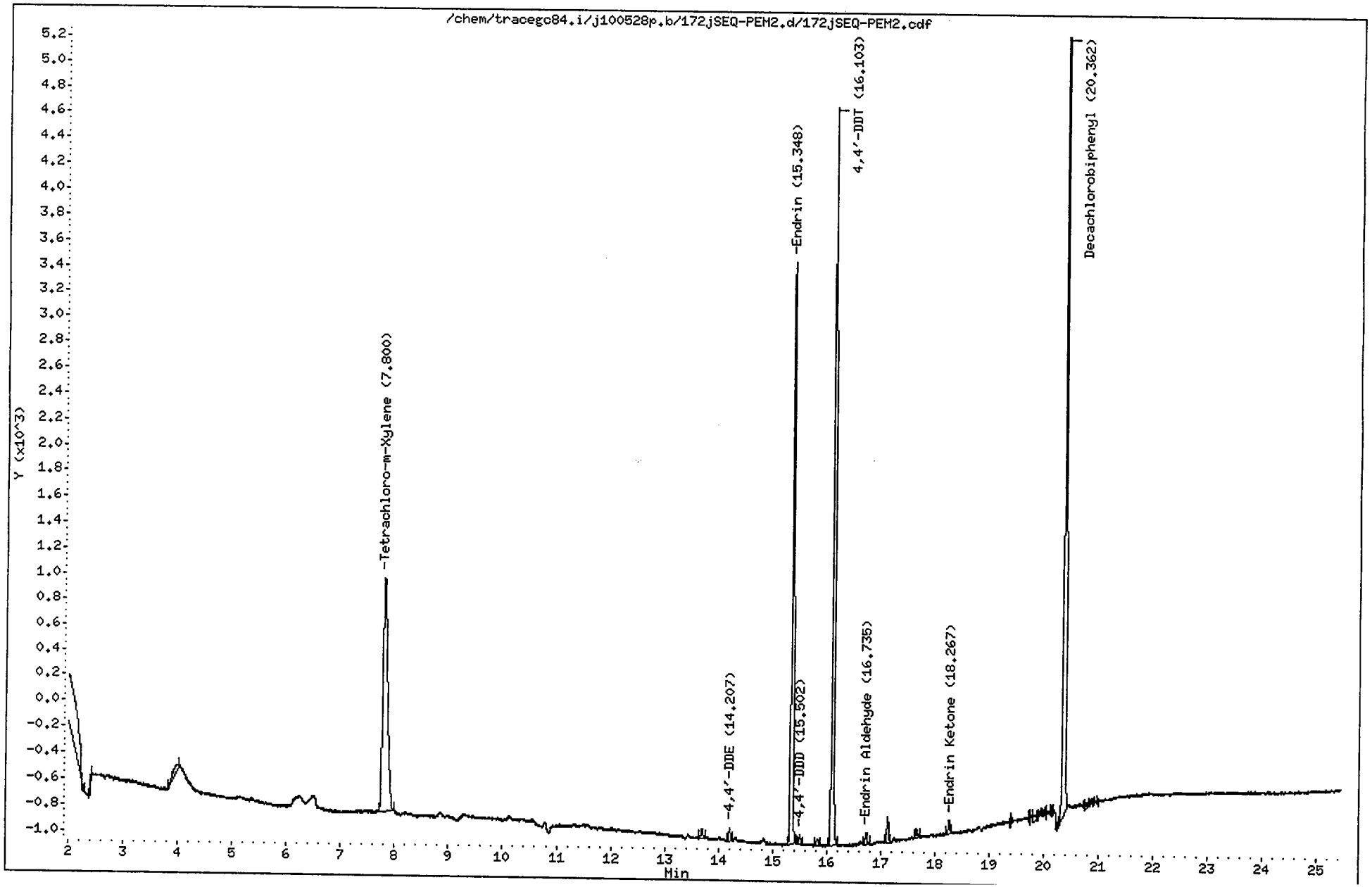
Client Smp Id : AR16603KH
Sublist : INDA
Inst ID : TRACEGC84

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.34			133								
1.45			34656								
2.42			210								
3.98			553								
7.80	7.77	7.91	10923	522758	Tetrachloro-m-Xylene	0.020000	546165	-4.5	20.0		
9.32	9.29	9.43	16286	775960	alpha-BHC	0.020000	814295	-4.9	20.0		
10.13	10.11	10.25	15277	729192	gamma-BHC (Lindane)	0.020000	763865	-4.8	20.0		
10.37	10.34	10.48	6354	300532	beta-BHC	0.020000	317700	-5.7	20.0		
10.80	10.77	10.91	14058	689518	delta-BHC	0.020000	702890	-1.9	20.0		
11.32	11.29	11.43	14368	695465	Heptachlor	0.020000	718390	-3.3	20.0		
12.03	12.01	12.15	13189	636570	Aldrin	0.020000	659447	-3.6	20.0		
12.81			161								
13.44	13.42	13.56	12205	593700	Heptachlor Epoxide	0.020000	610260	-2.8	20.0		
13.72	13.70	13.84	12231	594875	gamma-Chlordane	0.020000	611570	-2.8	20.0		
14.02	14.00	14.14	10643	516712	alpha-Chlordane	0.020000	532158	-3.0	20.0		
14.21	14.19	14.33	20903	523741	4,4'-DDE	0.040000	522574	0.2	20.0		
14.32	14.29	14.43	10949	548162	Endosulfan I	0.020000	547473	0.1	20.0		
14.85	14.82	14.96	21150	515556	Dieldrin	0.040000	528745	-2.6	20.0		
15.14			555								
15.35	15.33	15.47	19496	463071	Endrin	0.040000	487389	-5.3	20.0		
15.51	15.48	15.62	15940	393458	4,4'-DDD	0.040000	398501	-1.3	20.0		
15.84	15.81	15.95	18391	450326	Endosulfan II	0.040000	459785	-2.1	20.0		
16.11	16.08	16.22	18354	454781	4,4'-DDT	0.040000	458850	-0.9	20.0		
16.74	16.71	16.85	14427	348470	Endrin Aldehyde	0.040000	360664	-3.5	20.0		
17.14	17.11	17.25	38386	194359	Methoxychlor	0.200000	191928	1.3	20.0		
17.31			121								
17.67	17.65	17.79	15968	392055	Endosulfan sulfate	0.040000	399203	-1.8	20.0		
17.94			221								
18.26	18.24	18.38	18355	457258	Endrin Ketone	0.040000	458884	-0.4	20.0		
19.73			155								
20.36	20.33	20.47	15828	408350	Decachlorobiphenyl	0.040000	395702	3.1	20.0		

Data File: /chem/tracegc84.i/j100528p.b/172jSEQ-PEM2.d
Date : 03-JUN-2010 20:50
Client ID: PEMKH
Sample Info: SEQ-PEM2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMKH
Sample Type : SAMPLE Sublist : PEM
Inj Date : 03-JUN-2010 20:50 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528p.b/8081A_clpestv6.m
Misc. Info : PEMKH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

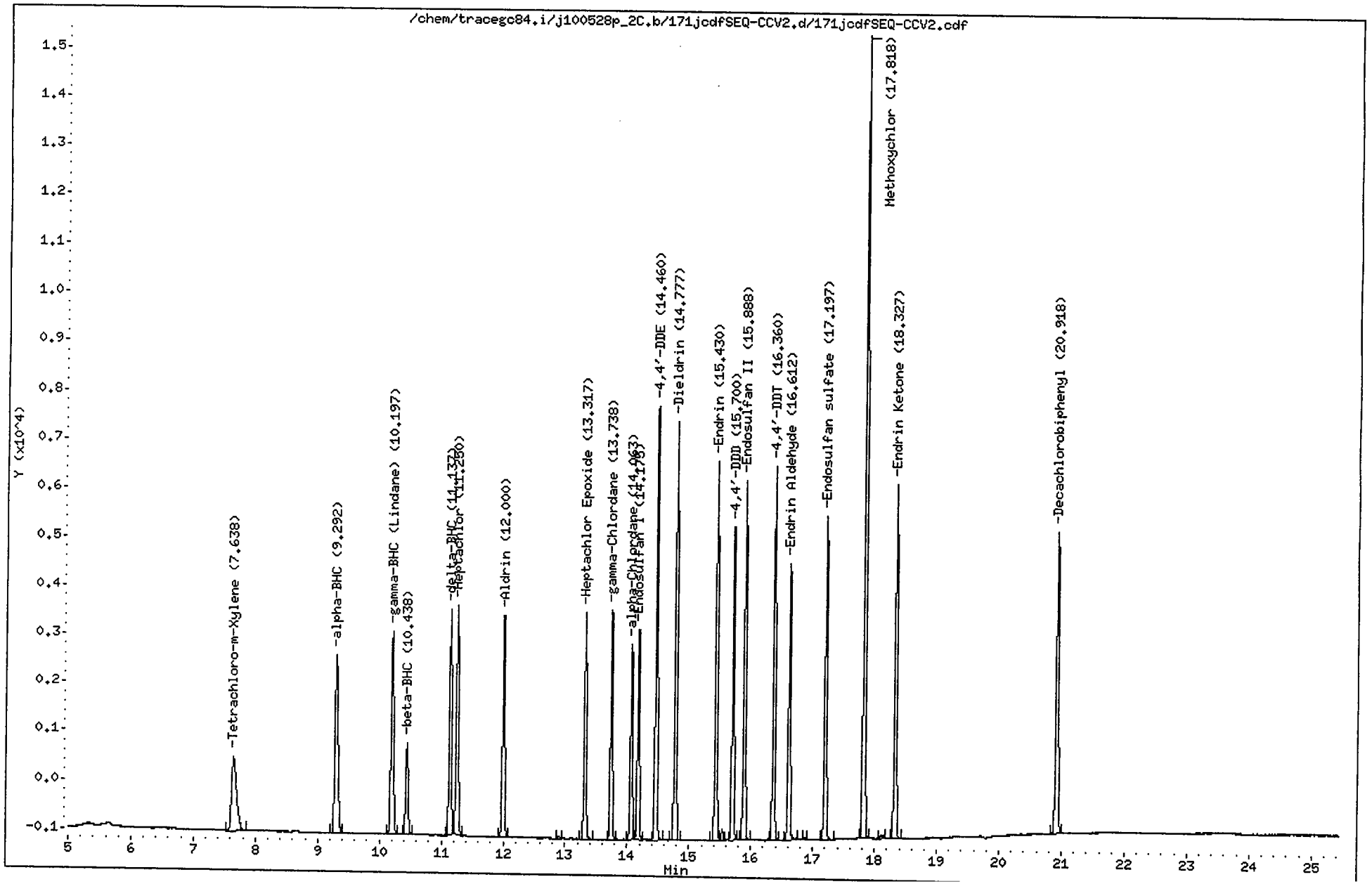
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.33			387								
1.44			60472								
2.42			146								
3.97			466								
7.80	7.77	7.91	11020	522758	Tetrachloro-m-Xylene	0.021080	0.021080		106.5	43 - 135	
13.70			220								
14.21	14.19	14.33	229	523741	4,4'-DDE	0.000437	0.000437	0.020000			J
15.35	15.33	15.47	11366	463071	Endrin	0.024544	0.024544	0.020000			
15.50	15.48	15.62	202	393458	4,4'-DDD	0.000513	0.000513	0.020000			J
15.83			132								
16.10	16.08	16.22	14020	454781	4,4'-DDT	0.030829	0.030829	0.020000			
16.74	16.71	16.85	232	348470	Endrin Aldehyde	0.000666	0.000666	0.020000			J
17.13			463								
17.66			145								
18.27	18.24	18.38	268	457258	Endrin Ketone	0.000586	0.000586	0.020000			J
19.80			175								
20.36	20.33	20.47	16106	408350	Decachlorobiphenyl	0.039441	0.039441		99.6	43 - 144	
20.76			122								

6/5/13

Data File: /chem/tracegc84.i/j100528p_2C.b/171jcdfSEQ-CCV2.d
Date : 03-JUN-2010 20:21
Client ID: INDC3KH
Sample Info: SEQ-CCV2
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



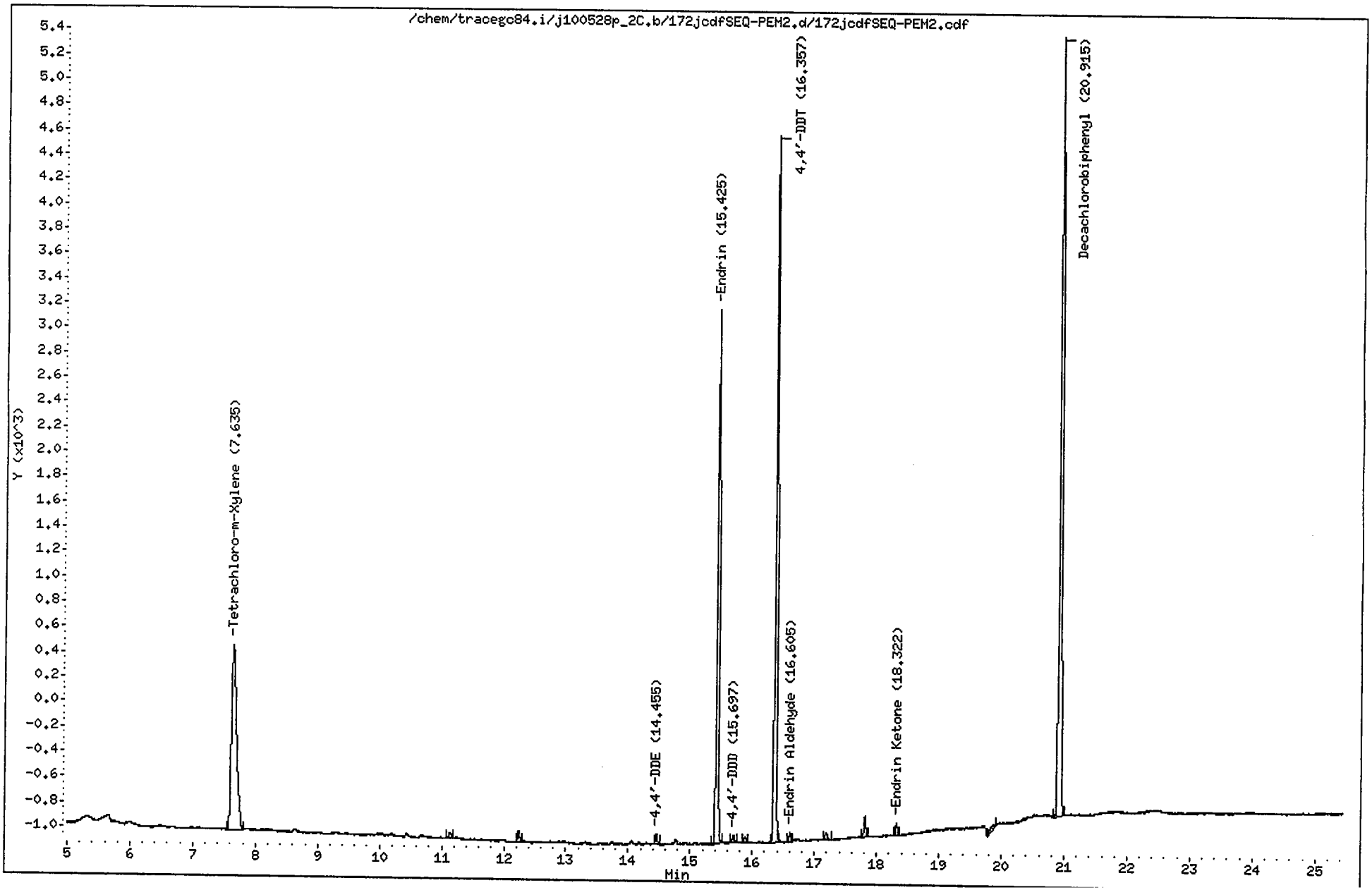
CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3KH
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 03-JUN-2010 20:21 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528p_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3KH

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.43			12017								
1.69			617								
1.76			447								
2.34			131								
3.30			121								
7.64	7.61	7.75	8372	416798	Tetrachloro-m-Xylene	0.020000	418590	-0.4	20.0		
9.29	9.26	9.40	12323	607758	alpha-BHC	0.020000	616125	-1.4	20.0		
10.20	10.17	10.31	11834	585542	gamma-BHC (Lindane)	0.020000	591697	-1.1	20.0		
10.44	10.41	10.55	5007	248610	beta-BHC	0.020000	250365	-0.7	20.0		
11.14	11.11	11.25	11080	551235	delta-BHC	0.020000	553985	-0.5	20.0		
11.25	11.22	11.36	11873	579497	Heptachlor	0.020000	593632	-2.4	20.0		
12.00	11.97	12.11	11023	542192	Aldrin	0.020000	551152	-1.7	20.0		
12.90			102								
13.32	13.29	13.43	10458	511912	Heptachlor Epoxide	0.020000	522910	-2.1	20.0		
13.74	13.71	13.85	10463	513150	gamma-Chlordane	0.020000	523150	-1.9	20.0		
14.06	14.04	14.18	9070	446248	alpha-Chlordane	0.020000	453482	-1.6	20.0		
14.18	14.15	14.29	9751	477982	Endosulfan I	0.020000	487572	-2.0	20.0		
14.46	14.43	14.57	19115	468602	4,4'-DDE	0.040000	477871	-2.0	20.0		
14.78	14.75	14.89	18971	461929	Dieldrin	0.040000	474270	-2.7	20.0		
15.43	15.40	15.54	17442	408649	Endrin	0.040000	436056	-6.7	20.0		
15.54			462								
15.70	15.67	15.81	13764	340626	4,4'-DDD	0.040000	344102	-1.0	20.0		
15.89	15.86	16.00	16619	404930	Endosulfan II	0.040000	415475	-2.6	20.0		
16.36	16.33	16.47	16179	405929	4,4'-DDT	0.040000	404477	0.4	20.0		
16.61	16.59	16.73	13086	316985	Endrin Aldehyde	0.040000	327143	-3.2	20.0		
16.86			97								
17.20	17.17	17.31	14954	366674	Endosulfan sulfate	0.040000	373846	-2.0	20.0		
17.82	17.79	17.93	36419	182916	Methoxychlor	0.200000	182095	0.4	20.0		
18.10			221								
18.33	18.30	18.44	16815	419519	Endrin Ketone	0.040000	420385	-0.2	20.0		
20.92	20.90	21.04	15878	406698	Decachlorobiphenyl	0.040000	396947	2.4	20.0		

Data File: /chem/tracegc84.i/j100528p_2C.b/172jcdfSEQ-PEM2.d
Date : 03-JUN-2010 20:50
Client ID: PEMKH
Sample Info: SEQ-PEM2
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMKH
Sample Type : SAMPLE Sublist : PEM
Inj Date : 03-JUN-2010 20:50 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528p_2C.b/8081A_clpest2v6.m
Misc. Info : PEMKH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.42			8912								
2.37			197								
7.64	7.61	7.75	8433	416798	Tetrachloro-m-Xylene	0.020233	0.020233		102.2	43 - 135	
11.13			104								
12.24			185								
14.46	14.43	14.57	159	468602	4,4'-DDE	0.000338	0.000338	0.020000			J
15.42	15.40	15.54	9659	408649	Endrin	0.023635	0.023635	0.020000			
15.70	15.67	15.81	136	340626	4,4'-DDD	0.000399	0.000399	0.020000			J
15.89			113								
16.36	16.33	16.47	12133	405929	4,4'-DDT	0.029889	0.029889	0.020000			
16.60	16.59	16.73	165	316985	Endrin Aldehyde	0.000521	0.000521	0.020000			J
17.20			129								
17.81			365								
18.32	18.30	18.44	215	419519	Endrin Ketone	0.000512	0.000512	0.020000			J
19.90			162								
20.92	20.90	21.04	15653	406698	Decachlorobiphenyl	0.038489	0.038489		97.2	43 - 144	

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 100528 Date 5/28/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

631

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM#	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		1	✓	5/28/10	Hexane	STD	NA	AHW	NA
2		2	✓	/ /	Hexane	↓	↓	↓	↓
3		3	✓	/ /	0E27012 - PEM1	6E21002			PEMHA
4		4	✓	/ /	CAL 1	0C26001			INDC1 HA
5		5	✓	/ /	2	0C26002			2
6		6	✓	/ /	3	0E11005			3
7		7	✓	/ /	4	0C26004			4
8		8	✓	/ /	5	0C26005			5
9		9	✓	/ /	ARC1	0D16008			TOXAPH3HA
10		10	✓	/ /	2	0C02004			CHLOR03HA
11		11	✓	/ /	CAL6 AHW 6/1/10	0B24009			AR16601HA
12		12	✓	/ /	CAL7	0B24010			2
13		13	✓	/ /	8	0E14002			3
14		14	✓	/ /	9	0B24013			4
15		15	✓	AHW 6/1/10 / /	A	0B24014			5
16		16	✓	5/29/10	ARC3	0E20004			AR1221 3 HA
17		17	✓	/ /	4	0E18016			1232
18		18	✓	/ /	5	0E20010			1242
19		19	✓	/ /	6	0E17012			1248
20		20	✓	/ /	7	0C17011			1254

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA - 6/1/10 Sequence ID: 0E27012 Hexane Lot No 71940

REVIEWED BY: [signature] DATE 6/1/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 100528 Date 5/29/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: ~~8081A~~ 8081B 8082 ~~8082A~~ 8151A SOM01.2 or Other: _____

632

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		21	✓	5/29/10	0E27012-ICV1	0E25016	NA	AHW	PESTCHKHA
2		22	✓	↓ /	↓ ICV2	0801002	↓	↓	PCBCHKHA
3				/ /					
4				/ /					
5				/ /					
6				/ /					
7				/ /					
8				/ /					
9				/ /					
10				/ /					
11				/ /					
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: _____ Sequence ID: 0E27012 Hexane Lot No 71940

REVIEWED BY: _____ DATE 6/1/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 1005286 Date 5/29/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	INJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		48	✓	5/29/10	SGQ-CCB3	0607001	PIBLKJGJH	AHW	
2		49	✓	/ /	CCV3	0611005	INDCSJH		
3		50	✓	/ /	PEM3	0621002	PEMJH		
4		51	✓	/ /	005719-BLK1	1005129	NA		
5		52	✓	/ /	BS1				
6		53	✓	/ /	MS1				
7		54	✓	/ /	MSD1				
8		55	✓	/ /	1005129-01				
9		56	✓	/ /	02				
10		57	✓	/ /	03				
11		58	✓	/ /	04				
12		59	✓	/ /	05				
13		60	✓	/ /	06				
14		61	✓	/ /	SGQ-IBLK	0607001	PIBLK		
~~15~~				/ /					
16				/ /					
17				/ /				AHW 6/2/10	
18				/ /					
19				/ /					
~~20~~				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: [signature] DATE 6/2/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 1005280 Date 5/29/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: ~~8081A~~ 8081B 8082 ~~8082A~~ 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		62	✓	5/29/10	SEQ-LCB4	0607001	PIBLKJIJJ	AHW	
2		63	✓	/ /	CCU4	0E11005	IPOC3JJ		
3		64	✓	/ /	PEM4	0621002	PEMJJ		
4		65	✓	/ /	1005129 ~~08~~ 07	1005129	NA		
5		66	✓	5/30/10	~~09~~ 08				
6		67	✓	/ /	~~10~~ 09				
7		68	✓	/ /	~~11~~ 10				
8		69	✓	/ /	~~12~~ 11				
9		70	✓	/ /	~~13~~ 12				
10		71	✓	/ /	~~14~~ 13				
11		72	✓	/ /	~~15~~ 14				
12		73	✓	/ /	~~16~~ 15				
13		74	✓	/ /	16				
14		75	✓	/ /	SEQ-IBL5	0607001	PIBLK		
15				/ /					
16				/ /					
17				/ /					
18				/ /		AHW 6/2/10			
19				/ /					
20				/ /					

AHW 6/2/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71990

REVIEWED BY: [signature] DATE 6/2/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 1005280 Date 5/30/10
GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)
LOGBOOK 4 N (4) 38 Method: (8081A 8081B 8082 8082A) 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		76	–	5/30/10	SEQCCBS	0607001	PIBLMJKJL	AHW	
2		77	–	/ /	CCVS	0611005	IVOC3JL	↓	
3		78	–	/ /	↓ PCMS	0621002	PEMJL		
4		79	✓	/ /	1005129-17	1005129	NA		
5		80	✓	/ /	18	↓	↓		
6		81	✓	/ /	19				
7		82	✓	/ /	↓ 20	↓	↓		
8		83	✓	↓ /	SEQ-IBL6	0607001	PIBLK	↓	
9				/ /					
10				/ /					
11				/ /					
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

AHW 6/2/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 7.990

REVIEWED BY: KBH DATE 6/2/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: J100528F Date 5/30/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: (8081A 8081B 8082 ~~8082A~~) 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		84	✓	5/30/10	560-CCB6	OE01001	PIBLKJNJN	AHN	
2		85	✓	/ /	LCW6	OE11005	INDCSJN	↓	
3		86	✓	/ /	PEM6	OE21002	PEMJN	↓	
4				/ /					
5				/ /					
6				/ /					
7				/ /					
8				/ /					
9				/ /					
10				/ /					
11				/ /					
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

AHN 6/2/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: [signature] DATE 6/2/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 100528 0 Date 6/3/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: ~~8081A~~ 8081B ~~8082~~ 8082A 8151A SOM01.2 or Other: _____

~~X~~Changed septum ~~X~~Changed liner ~~X~~Baked column ☐Trimmed column

#	RELEASED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		156		6/3/10	SEQ-1AL1	0E07001		LL	
2		157		/ /	-CCB1	↓	PIANKEKF		
3		158		/ /	-CCV1	0E11005	INDC3KF		
4		159		/ /	-PEM1	0E21002	PEMKF		
5		160	RR	/ /	100S719 - BLK1	100S729			RERR
6		161		/ /	100S711 - BLK1	100S199			
7		162		/ /	-BS1				
8		163		/ /	-BSD1				
9		164		/ /	100S199-01				100X (400µl HX/5ml → 400µl HX/1ml)
10		165		/ /	100S129-05	100S129			5X (80µl HX/2ml → 400µl HX/1ml)
11		166		/ /	07				10X (200µl HX/2ml → 400µl HX/1ml)
12		167		/ /	14				2X (80µl HX/2ml → 400µl HX/1ml)
13		168		/ /	18				1X ↓ ↓
14		169		/ /	SEQ-1BL2	0E07001			
~~15~~				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
~~20~~				/ /					

KGH 6/4/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KGH DATE 6/4/10

03/17/10: jad

638

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: jun24p Date 6/3/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		170	✓	6/3/10	SEQ-CCB1	OE07001	PIBLKKGKH	LD	
2		171	✓	/ /	-CCV2	OE11005	LNBLKKH		
3		172	✓	/ /	-PEM1	OE21002	PEMKH		
4		173		/ /	100750-07	100750			
5		174		/ /	08				
6		175		/ /	09				
7		176		/ /	10				
8		177		/ /	11				
9		178		/ /	12				
10		179		6/4/10	13				
11		180		/ /	SEQ-1BL3	OE07001			
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 6/4/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71140

REVIEWED BY: KEH DATE 6/4/10

03/17/10: jad

4. Raw QC Data

    a. Blank Data

    b. Laboratory Control Sample Data

    c. Matrix Spike Data

    d. Matrix Spike Duplicate Data

a. Blank Data

Arranged by type of blank

i) Method blanks shall be in chronological order, by extraction date.
ii) Instrument blanks shall be in chronological order, by GC column and instrument.
iii) Sulfur cleanup blanks (if needed) shall be in chronological order, by date of analysis.

- Tabulated Results (Form I)
- Chromatograms and date system printout(s) for each GC column and instrument used for analysis.

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKBD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 0051719-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-85-7	beta-BHC	0.85	U
319-84-6	alpha-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	3.3	U
72-55-9	4,4'-DDE	3.3	U
50-29-3	4,4'-DDT	3.3	U
60-57-1	Dieldrin	3.3	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
72-20-8	Endrin	3.3	U
7421-93-4	Endrin Aldehyde	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor Epoxide	1.7	U
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	3.3	U
5103-74-2	gamma-Chlordane	0.24	JP
5103-71-9	alpha-Chlordane	1.7	U

Data File: /chem/tracegc84.i/j100528c.b/051j0051719-BLK1.d

Date : 29-MAY-2010 16:57

Client ID: PBLKBD

Instrument: tracegc84.i

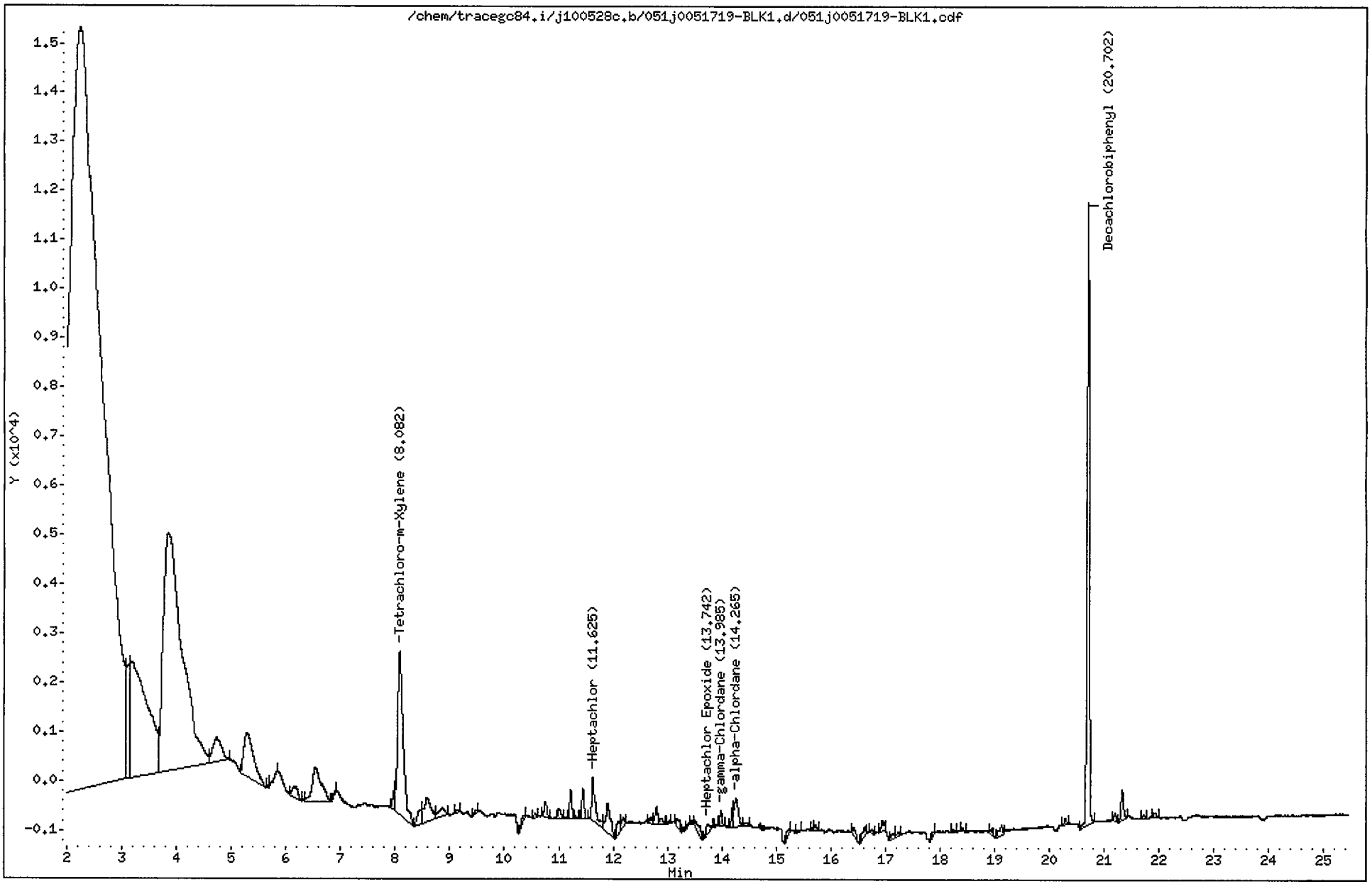
Sample Info: 0051719-BLK1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



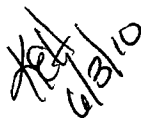
CompuChem

Lab Smp Id : 0051719-BLK1 Client Smp Id : PBLKBD
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 16:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : PBLKBD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57			36321								
2.23			688403								
3.13			8005								
3.19			52725								
3.85			115639								
4.73			5546								
5.29			11246								
5.85			335								
6.17			1526								
6.54			8183								
6.92			167								
7.99			1100								
8.08	8.01	8.15	23286	522758	Tetrachloro-m-Xylene	0.044543	7.423774		74.2	70 - 125	
8.47			1548								
8.58			4518								
8.87			1464								
9.13			169								
9.48			211								
10.37			668								
10.56			230								
10.76			1113								
11.01			774								
11.22			1648								
11.31			151								
11.44			1796								
11.62	11.55	11.69	4016	695465	Heptachlor	0.005773	0.962186	1.700000			J
11.90			3622								
12.08			1113								
12.19			734								
12.71			482								
12.80			1124								
12.89			457								
13.04			159								
13.17			764								
13.29			160								
13.37			169								
13.45			226								



CompuChem

Lab Smp Id : 0051719-BLK1 Client Smp Id : PBLKBD
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 16:57 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : PBLKBD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.52		1231								
13.74	13.68 13.82	798	593700	Heptachlor Epoxide	0.001344	0.224019	1.700000			J
13.91		170								
13.98	13.97 14.11	839	594875	gamma-Chlordane	0.001410	0.235063	1.700000			J
14.20		910								
14.26	14.27 14.41	2923	516712	alpha-Chlordane	0.005655	0.942497	1.700000			JJ
14.43		265								
15.22		496								
15.41		145								
15.67		137								
15.72		316								
16.41		756								
16.62		921								
16.77		181								
16.94		792								
17.12		430								
17.24		305								
17.87		216								
18.24		148								
18.41		173								
18.94		281								
19.13		782								
20.29		312								
20.70	20.63 20.77	35606	408350	Decachlorobiphenyl	0.087192	14.53206		72.7	55 - 130	
21.20		450								
21.33		1904								
21.72		232								
21.93		248								

Data File: /chem/tracegc84.i/j100528c_2C.b/051j0051719-BLK1.d

Date : 29-MAY-2010 16:57

Client ID: PBLKBD

Instrument: tracegc84.i

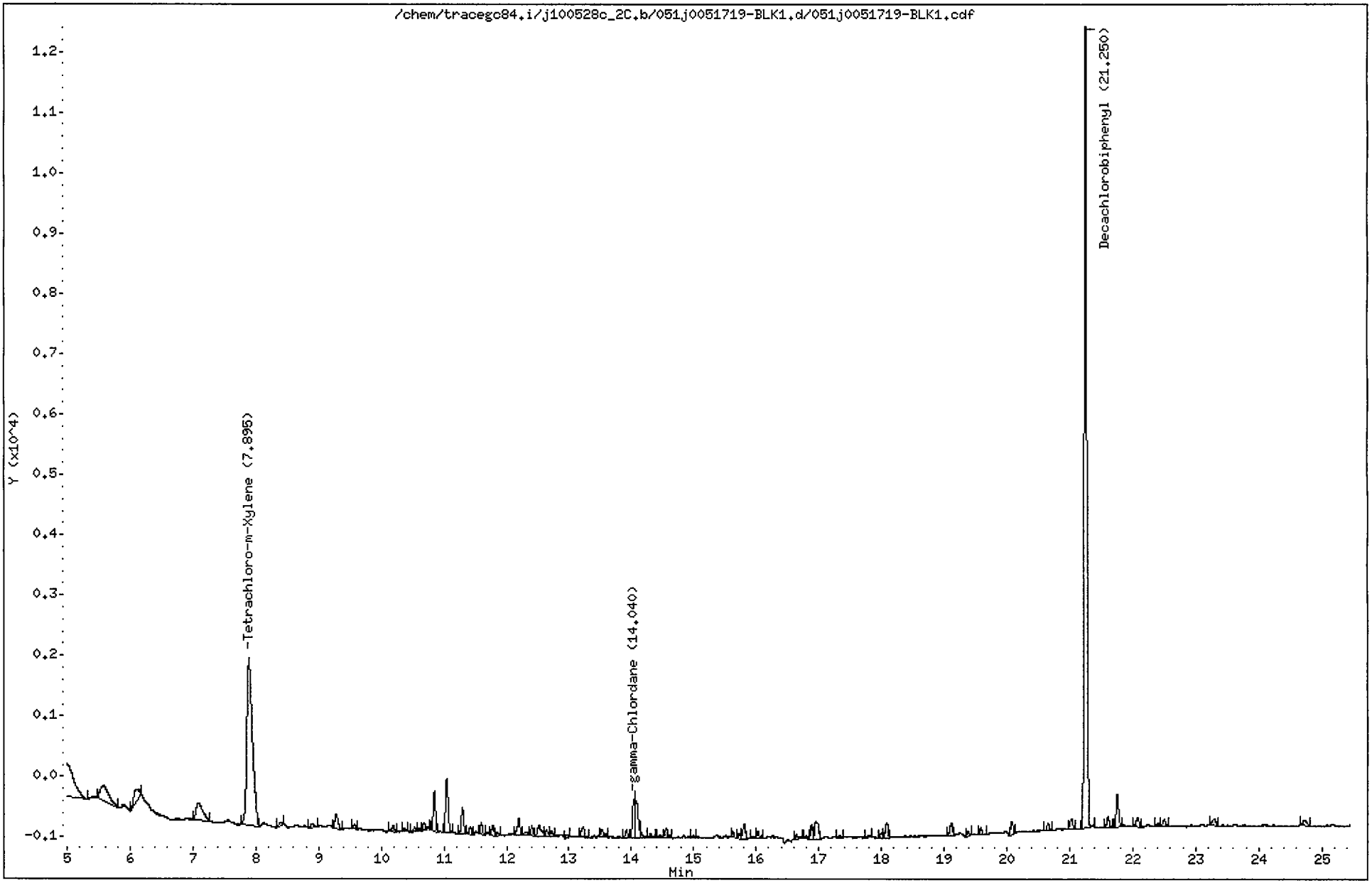
Sample Info: 0051719-BLK1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051719-BLK1 Client Smp Id : PBLKBD
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 16:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKBD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.03			21348								
3.20			7270								
5.00			6476								
5.57			2347								
6.10			1247								
7.09			2037								
7.90	7.82	7.96	16951	416798	Tetrachloro-m-Xylene	0.040667	6.777872		67.8*	70 - 125	R
8.40			178								
8.90			269								
9.28			836								
9.56			232								
10.19			363								
10.37			147								
10.53			150								
10.61			109								
10.68			376								
10.85			1646								
11.04			2574								
11.29			1187								
11.42			376								
11.59			402								
11.78			414								
11.86			127								
12.20			776								
12.30			237								
12.40			371								
12.52			776								
12.64			274								
12.72			218								
12.97			159								
13.23			547								
13.52			372								
13.92			305								
14.04	13.95	14.09	1799	513150	gamma-Chlordane	0.003506	0.584300	1.700000			JM
14.06			2003								
14.13			332								
14.31			180								

6/3/10

CompuChem

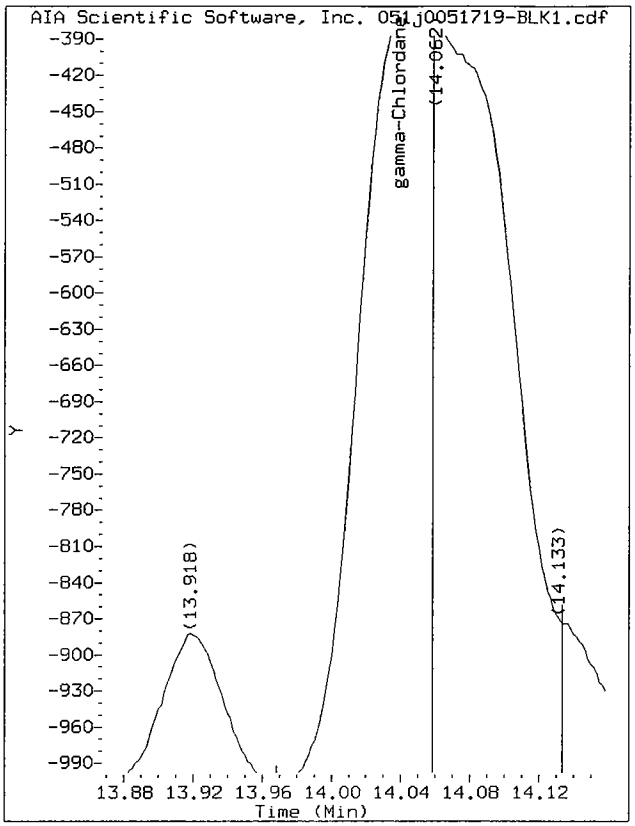
Lab Smp Id : 0051719-BLK1 Client Smp Id : PBLKBD
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 16:57 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKBD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

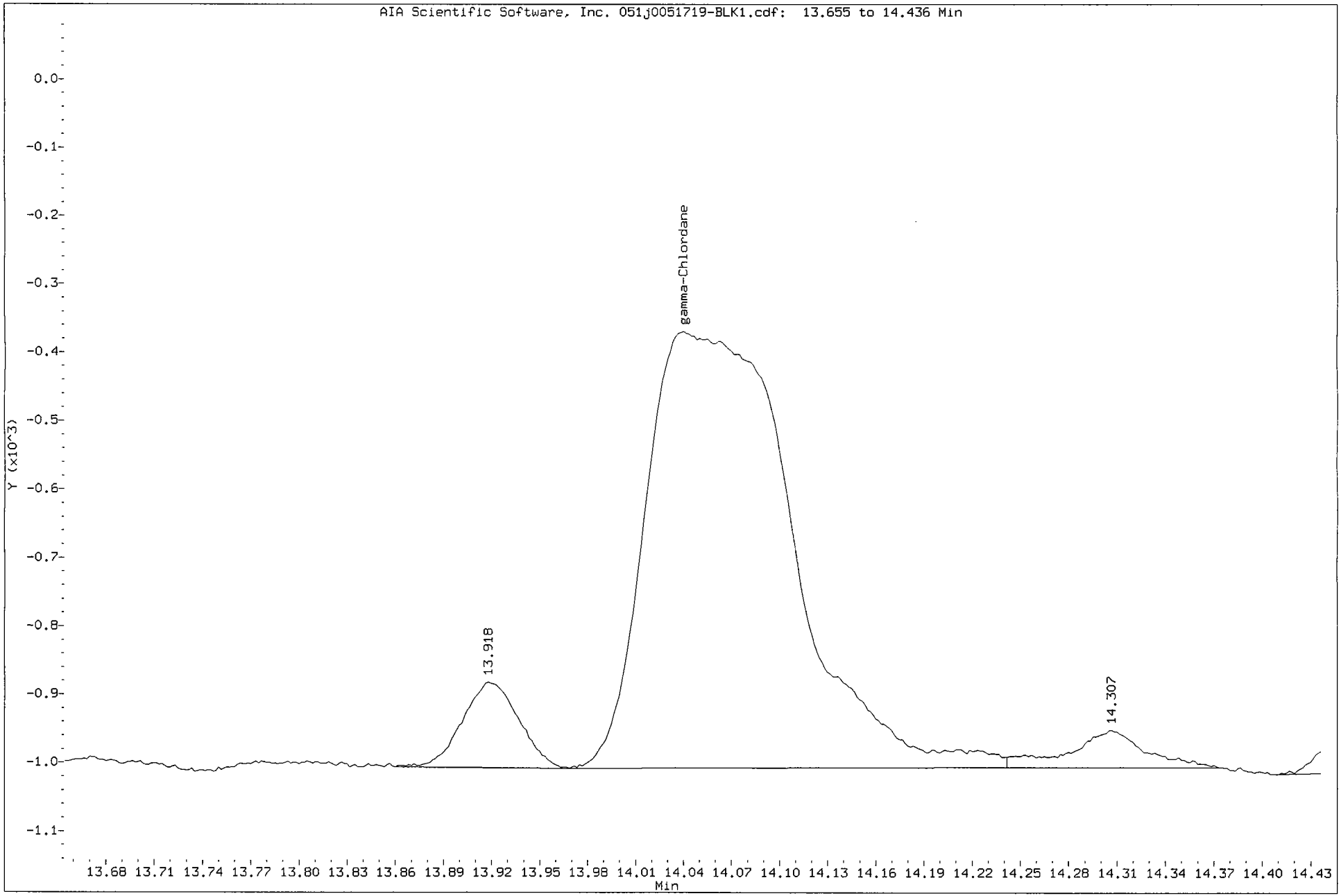
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.45		155								
14.56		487								
15.00		95								
15.63		213								
15.72		203								
15.81		717								
15.95		106								
16.02		365								
16.64		210								
16.80		130								
16.88		576								
16.95		1218								
17.32		92								
17.80		119								
18.00		184								
18.09		717								
19.11		602								
19.38		203								
19.58		252								
20.08		586								
20.65		276								
21.03		528								
21.25	21.18 21.32	36170	406698	Decachlorobiphenyl	0.088933	14.82224		74.1	55 - 130	
21.61		467								
21.75		1447								
22.07		524								
22.40		132								
22.50		315								
23.30		435								
24.73		383								

Manually Integrated Peaks



Start: 13.97 Stop: 14.06

Data File: /chem/tracegc84.i/j100528c_2C.b/051j0051719-BLK1.d/051j0051719-BLK1.cdf
Injection Date: 29-MAY-2010 16:57
Instrument: tracegc84.i
Client Sample ID: PBLKBD



CompuChem

ASSIGNED TO B. Patterson

EXTRACTION WORKSHEET

DATE/TIME EXTRACTED: 5-18-10 @ 1155

PEST/PCB IN S/S/S BY METHOD 3550B/C for 8081/8082

650

EMPLOYEE ID # 2713

5-24-3

BATCH NO.: 0051719

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE WEIGHT (g)	FINAL VOLUME (µL)	COMMENTS
1	0051719-BLK1	PBLKBD	MB	30.0	1.0 5.0	~~Samples need to be GPC'd~~
2	0051719-BS1	PBDLCS	LCS	30.0	1.0 5.0	
3	0051719-MS1	SS53-0-1MS	MS	30.0	1.0 5.0	
4	0051719-MSD1	SS53-0-1MSD	MSD	30.0	1.0 5.0	VG 5-24-10
5	1005129-01	SS55-00-01	SAMPLE	30.0	1.0 5.0	
6	1005129-02	SB55-00-2.5-3	SAMPLE	30.0	1.0 5.0	GPC (3640A) PERFORMED? (Y) / N
7	1005129-03	SS54-0-1	SAMPLE	30.0	1.0 5.0	FLORISIL PERFORMED? Y / (N)
8	1005129-04	SB54-4-5	SAMPLE	30.0	1.0 5.0	VG 5-24-10
9	1005129-05	SS53-0-1	SAMPLE	30.0	1.0 5.0	QC
10	1005129-06	SB53-7-8	SAMPLE	30.0	1.0 5.0	
11	1005129-07	SS80-0-1	SAMPLE	30.0	1.0 5.0	
12	1005129-08	SB80-3-4	SAMPLE	30.0	1.0 5.0	
13	1005129-09	SS56-0-1	SAMPLE	30.0	1.0 5.0	
14	1005129-10	SB56-3-4	SAMPLE	30.0	1.0 5.0	
15	1005129-11	SS58-0-1	SAMPLE	30.0	1.0 5.0	
16	1005129-12	SS52-0-1	SAMPLE	30.0	5.0	
17	1005129-13	SS57-0-1	SAMPLE	30.0	5.0	
18	1005129-14	SS60-00-01	SAMPLE	30.0	5.0	
19	1005129-15	SS59-00-01	SAMPLE	30.0	5.0	VG 5/24/10
20	1005129-16	SB59-9-10	SAMPLE	30.0	5.0	
21	1005129-17	SS85-0-1	SAMPLE	30.0	5.0	
22	1005129-18	SS89-0-1	SAMPLE	30.0	5.0	
23	1005129-19	SB89-6.5-7.5	SAMPLE	30.0	5.0	
24	1005129-20	SS78-0-1	SAMPLE	30.0	5.0	GPC Date: 5-20-10
25	VG 5/24/10					GPC# 5
26						GPC Calib Date: 5-17-10

		AMOUNT	LOT	SURROGATE AND SPIKE ADDED BY
	SURROGATE	449	0.5 ml	OE07004	BFP 5-18-10
	SPIKE	4030	1.0 ml	OE14001	INITIALS DATE

FINAL VOLUME VERIFIED: [signature]

Analysts initials. Extract BFP KD BFP N2 BFP/ML Bottle up RM/VG

REVIEWED BY: [signature]

Balance: Sartorius BL310

Witness VG, [signature] 5-18-10
Initials Date

Manufacturers and lot numbers of reagents/solvents used 50/50 CH_2Cl_2/CH_3COCH_3 - 2xx8-649-3, Na_2SO_4 - 2xx8-648-4
C_6H_{14} - 72003

VG 5-18-10

4/1/10:jad

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKJG

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528c.b/048jSEQ-CCB3.d

Date : 29-MAY-2010 15:30

Client ID: PIBLKJG

Instrument: tracegc84.i

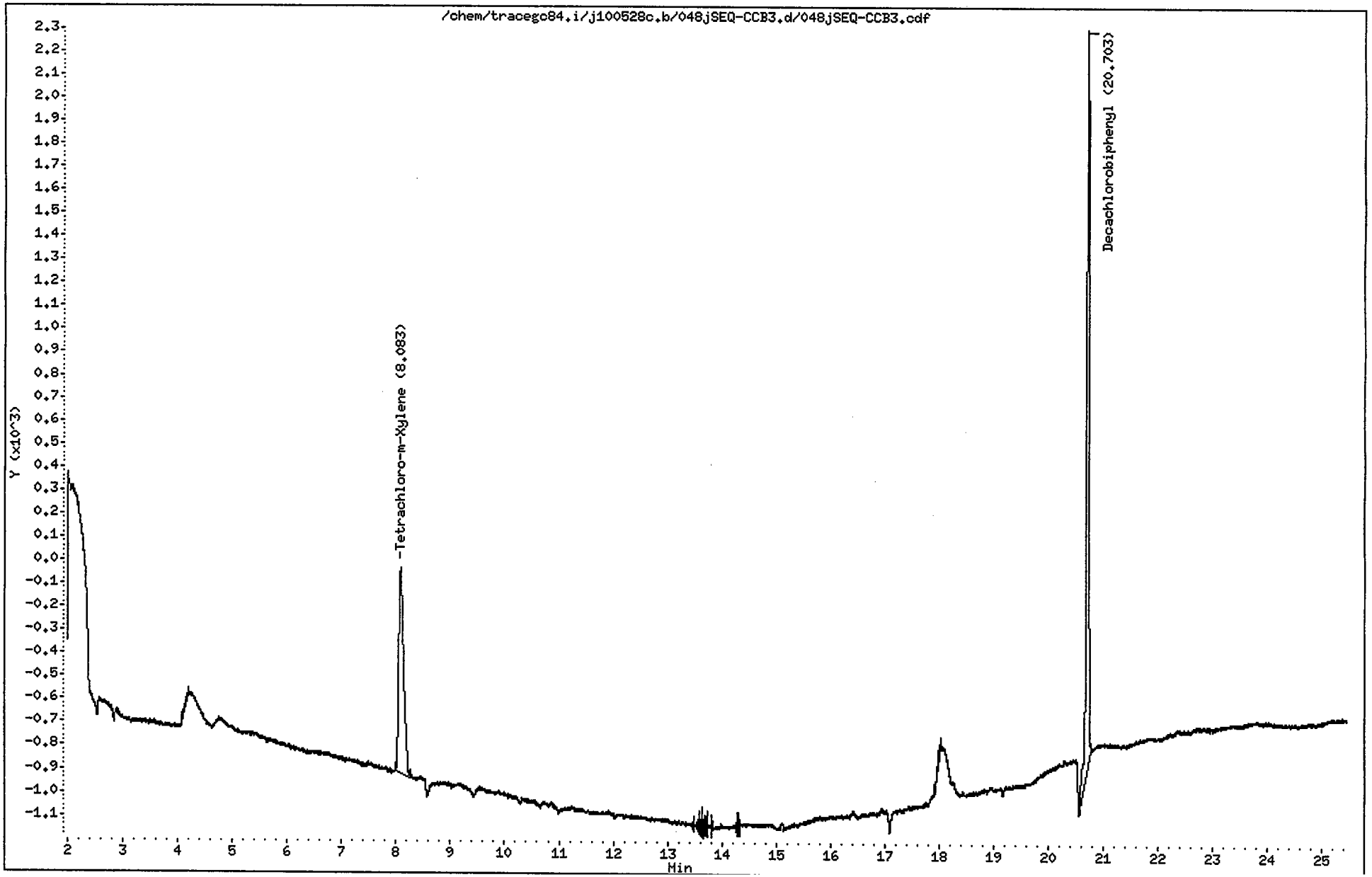
Sample Info: SEQ-CCB3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB3 Client Smp Id : PIBLKJG
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 15:30 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : PIBLKJGJH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.57			29876						
4.18			137						
8.08	8.01	8.15	5584	522758	Tetrachloro-m-Xylene	0.010682	0.021364		
13.58			141						
18.00			223						
20.70	20.63	20.77	9571	408350	Decachlorobiphenyl	0.023438	0.046876		

AHW
6/1/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJH

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528c_2C.b/048jSEQ-CCB3.d

Date : 29-MAY-2010 15:30

Client ID: PIBLKJH

Instrument: tracegc84.i

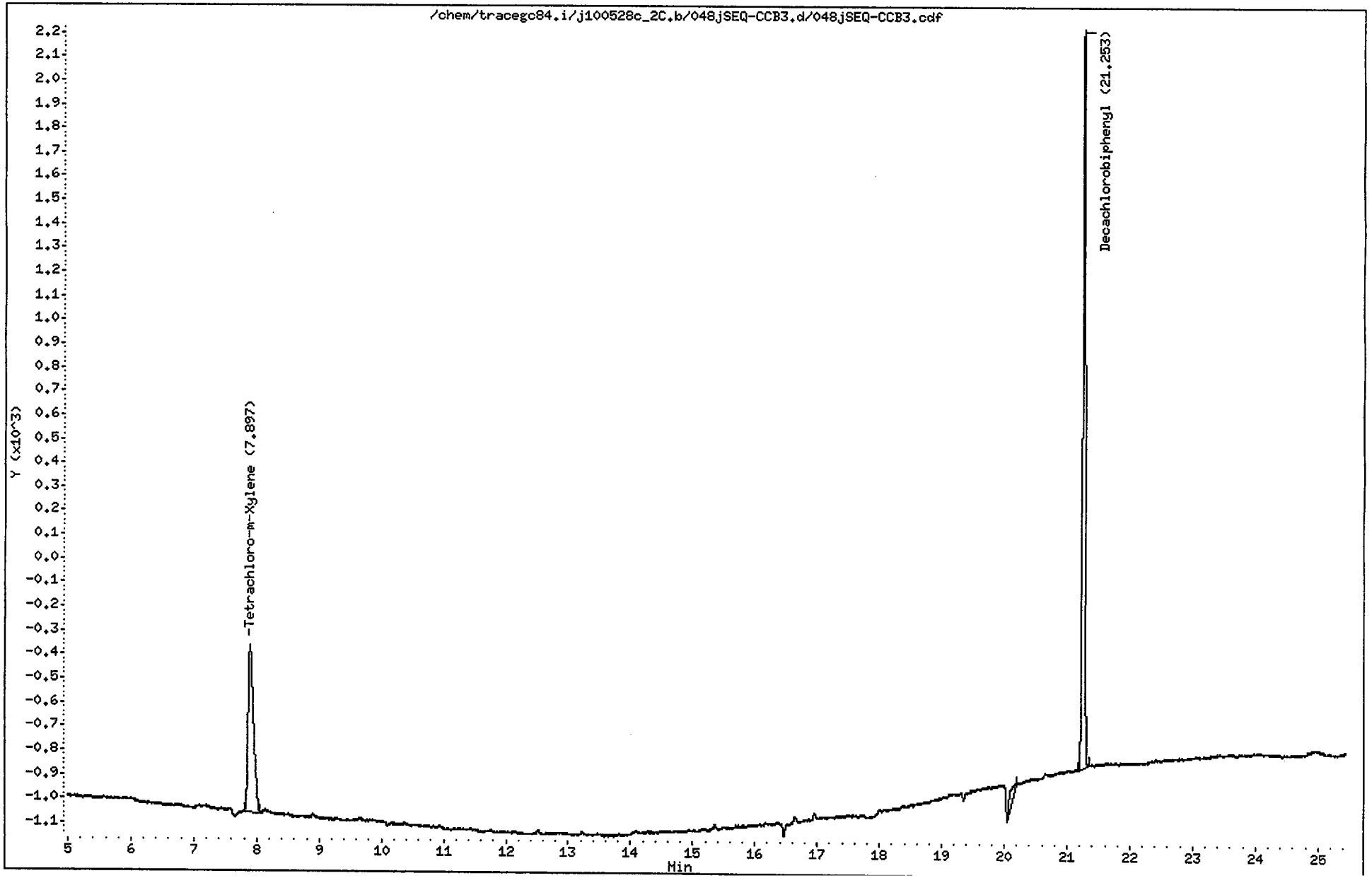
Sample Info: SEQ-CCB3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB3 Client Smp Id : PIBLKJH
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 15:30 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKJGJH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.55			6882						
1.89			124						
7.90	7.82	7.96	4176	416798	Tetrachloro-m-Xylene	0.010020	0.050100		
20.20			449						
21.25	21.18	21.32	8421	406698	Decachlorobiphenyl	0.020705	0.103524		

AHW
6/1/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJI

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528d.b/062jSEQ-CCB4.d

Date : 29-MAY-2010 22:15

Client ID: PIBLKJI

Instrument: tracegc84.i

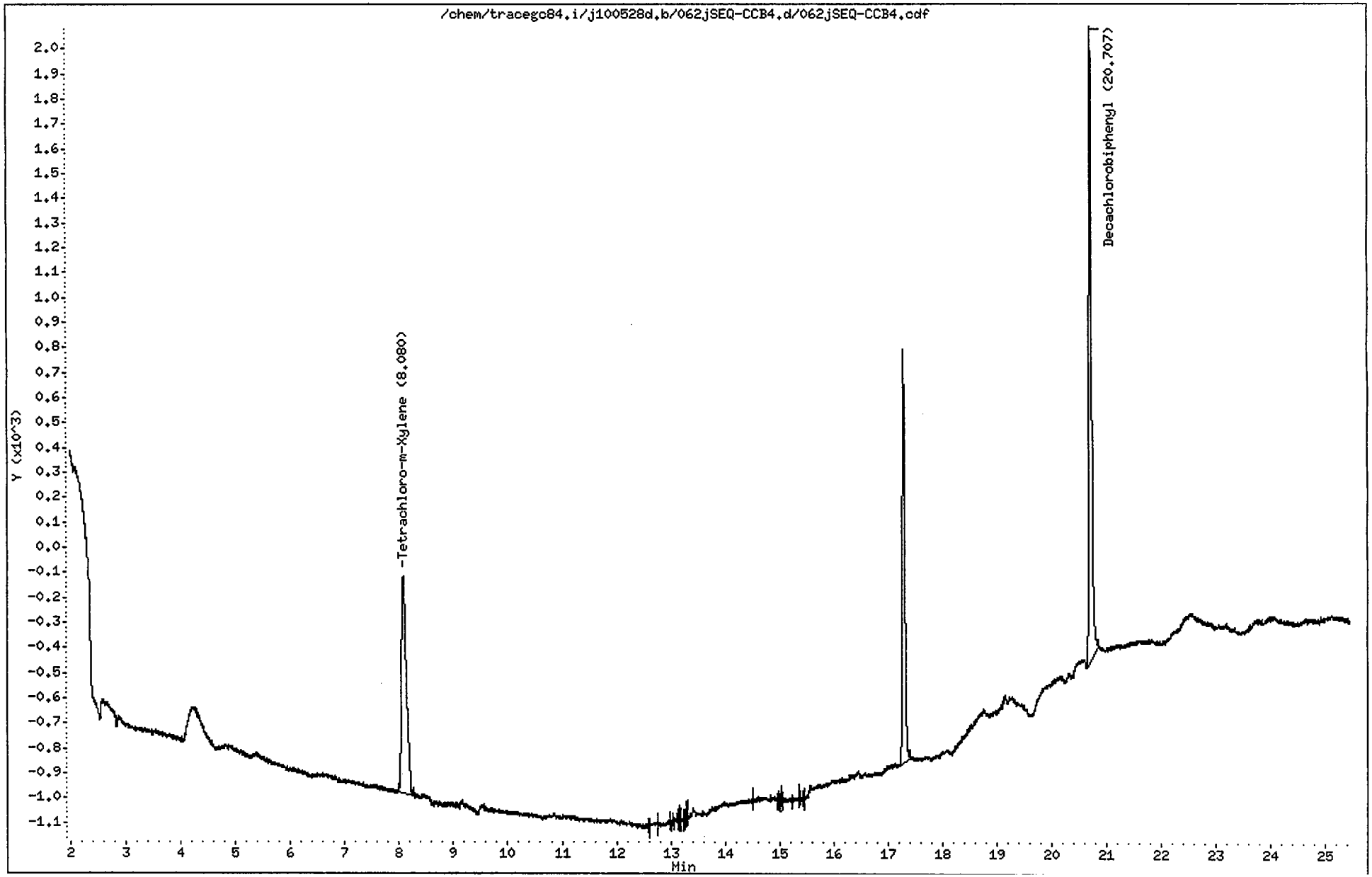
Sample Info: SEQ-CCB4

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB4 Client Smp Id : PIBLKJI
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 22:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d.b/8081A_clpestv6.m
Misc. Info : PIBLKJIJJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.55			4217						
8.08	8.01	8.15	5444	522758	Tetrachloro-m-Xylene	0.010415	0.020829		
15.02			137						
17.28			5087						
20.71	20.63	20.77	8155	408350	Decachlorobiphenyl	0.019970	0.039941		

AHW
6/1/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJJ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528d_2C.b/062jSEQ-CCB4.d

Page 1

Date : 29-MAY-2010 22:15

Client ID: PIBLKJJ

Instrument: tracegc84.i

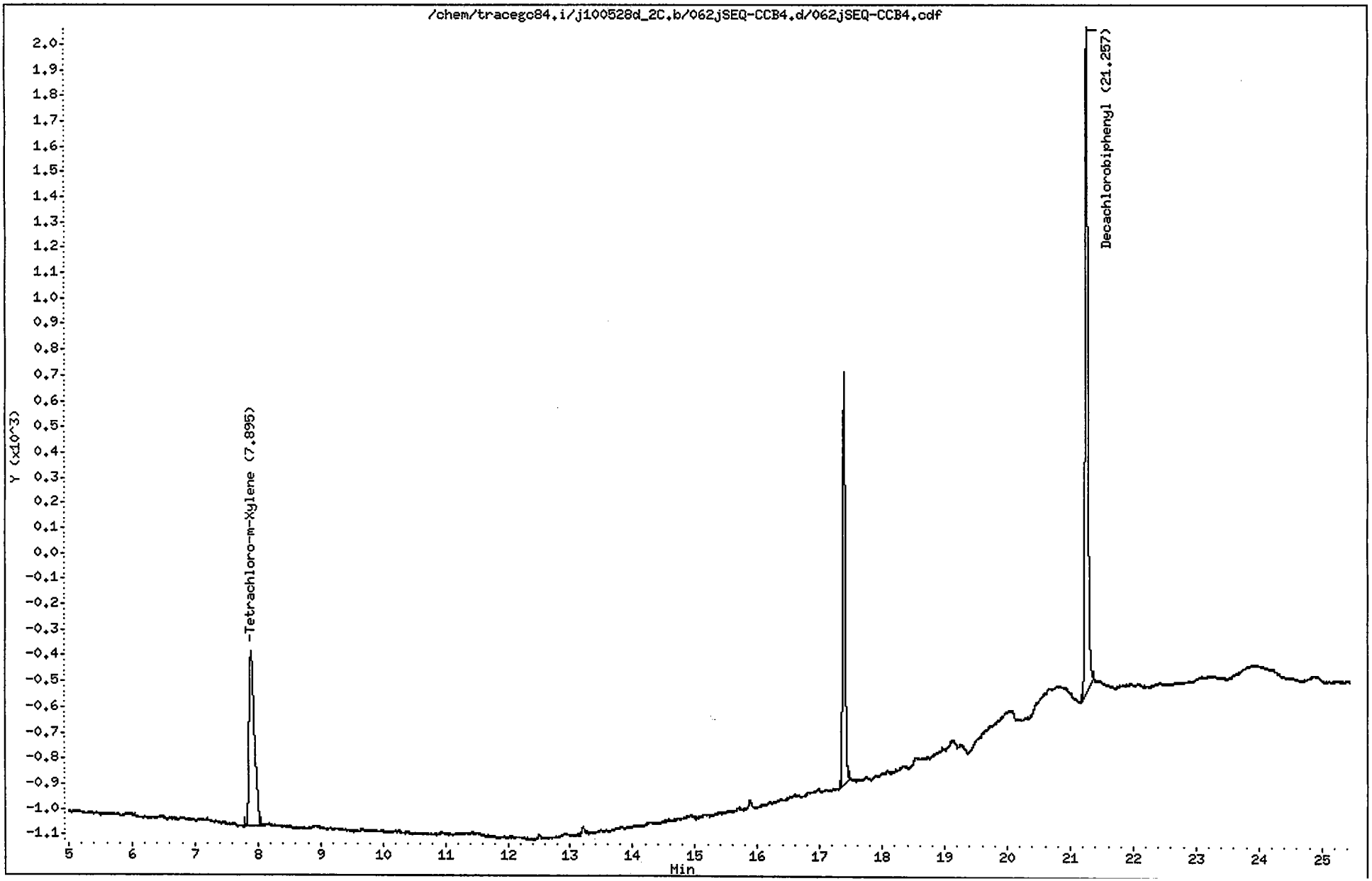
Sample Info: SEQ-CCB4

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB4 Client Smp Id : PIBLKJJ
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 22:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528d_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKJIJJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.54			7006						
7.90	7.82	7.96	4085	416798	Tetrachloro-m-Xylene	0.009802	0.049008		
17.38			4310						
21.26	21.18	21.32	7898	406698	Decachlorobiphenyl	0.019419	0.097097		

AHW
6/1/10

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKJK

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528e.b/076jSEQ-CCB5.d

Date : 30-MAY-2010 05:00

Client ID: PIBLKJK

Instrument: tracegc84.i

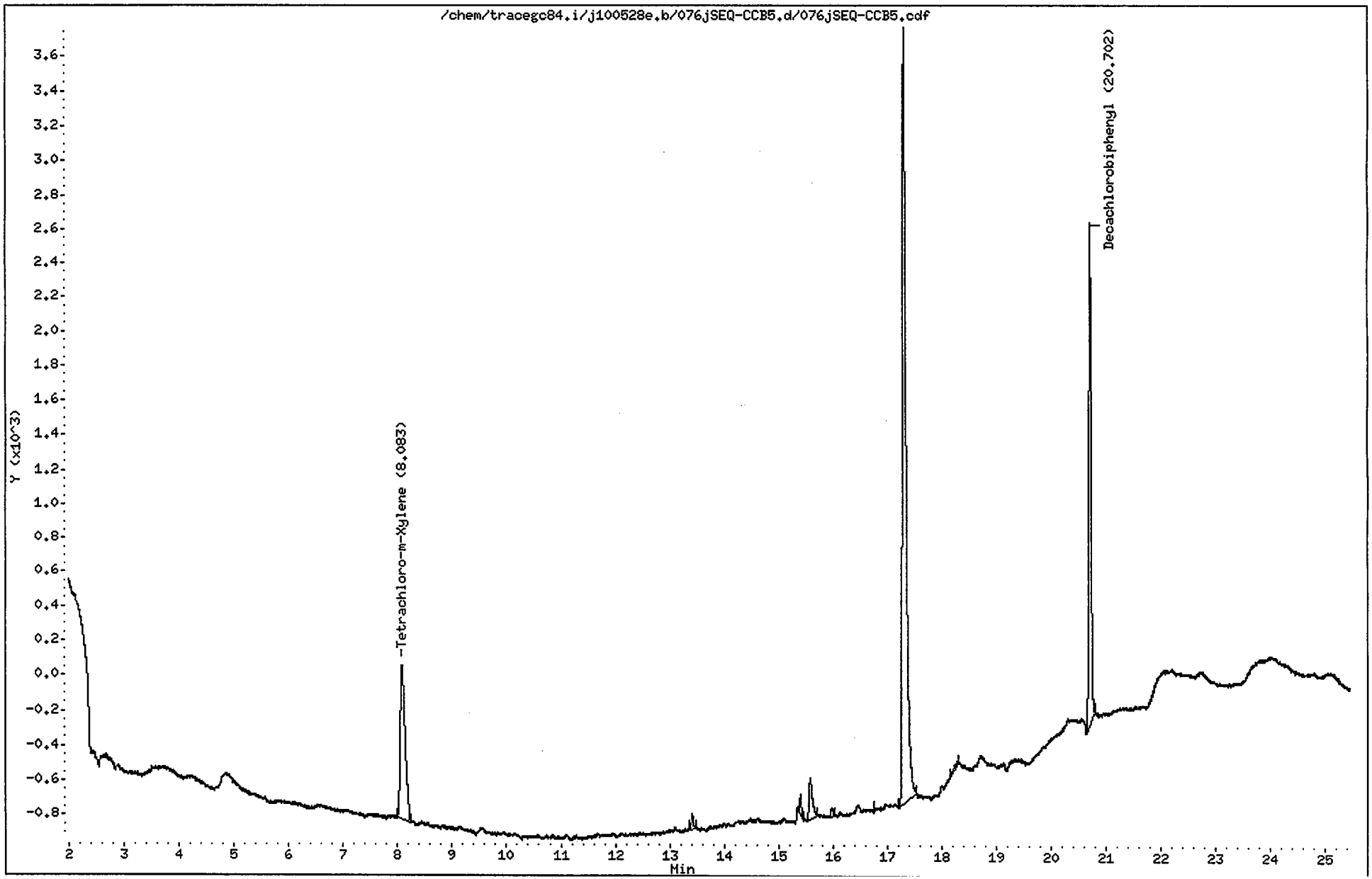
Sample Info: SEQ-CCB5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: olpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB5 Client Smp Id : PIBLKJK
Sample Type : INSTBLANK Sublist : all
Inj Date : 30-MAY-2010 05:00 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e.b/8081A_clpestv6.m
Misc. Info : PIBLKJKJL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.55			4564						
8.08	8.01	8.15	5517	522758	Tetrachloro-m-Xylene	0.010552	0.021103		
13.42			218						
15.40			235						
15.58			1021						
15.99			138						
17.30			20727						
18.28			136						
20.70	20.63	20.77	8164	408350	Decachlorobiphenyl	0.019990	0.039980		

AHW
6/1/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528e_2C.b/076jSEQ-CCB5.d

Date : 30-MAY-2010 05:00

Client ID: PIBLKJL

Instrument: tracegc84.i

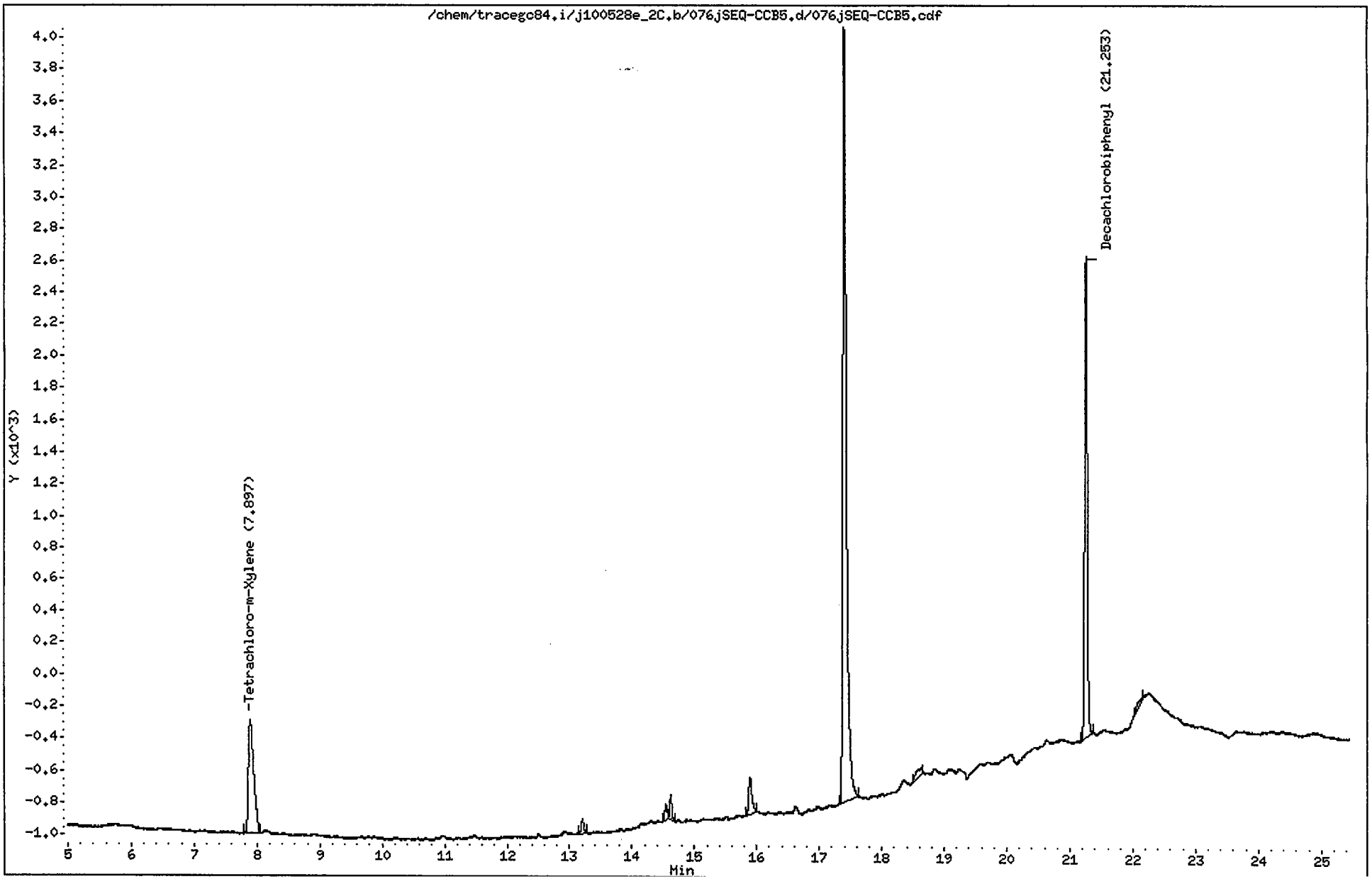
Sample Info: SEQ-CCB5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB5 Client Smp Id : PIBLKJL
Sample Type : INSTBLANK Sublist : all
Inj Date : 30-MAY-2010 05:00 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528e_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKJKJL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.55			7139						
7.90	7.82	7.96	4148	416798	Tetrachloro-m-Xylene	0.009953	0.049765		
13.21			225						
14.54			247						
14.62			313						
15.89			814						
17.40			18811						
18.60			326						
21.25	21.18	21.32	8429	406698	Decachlorobiphenyl	0.020724	0.103622		
22.16			173						

AHW
6/1/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJM

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.0027	J
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.031	J
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528f.b/084jSEQ-CCB6.d

Date : 30-MAY-2010 08:51

Client ID: PIBLKJM

Instrument: tracegc84.i

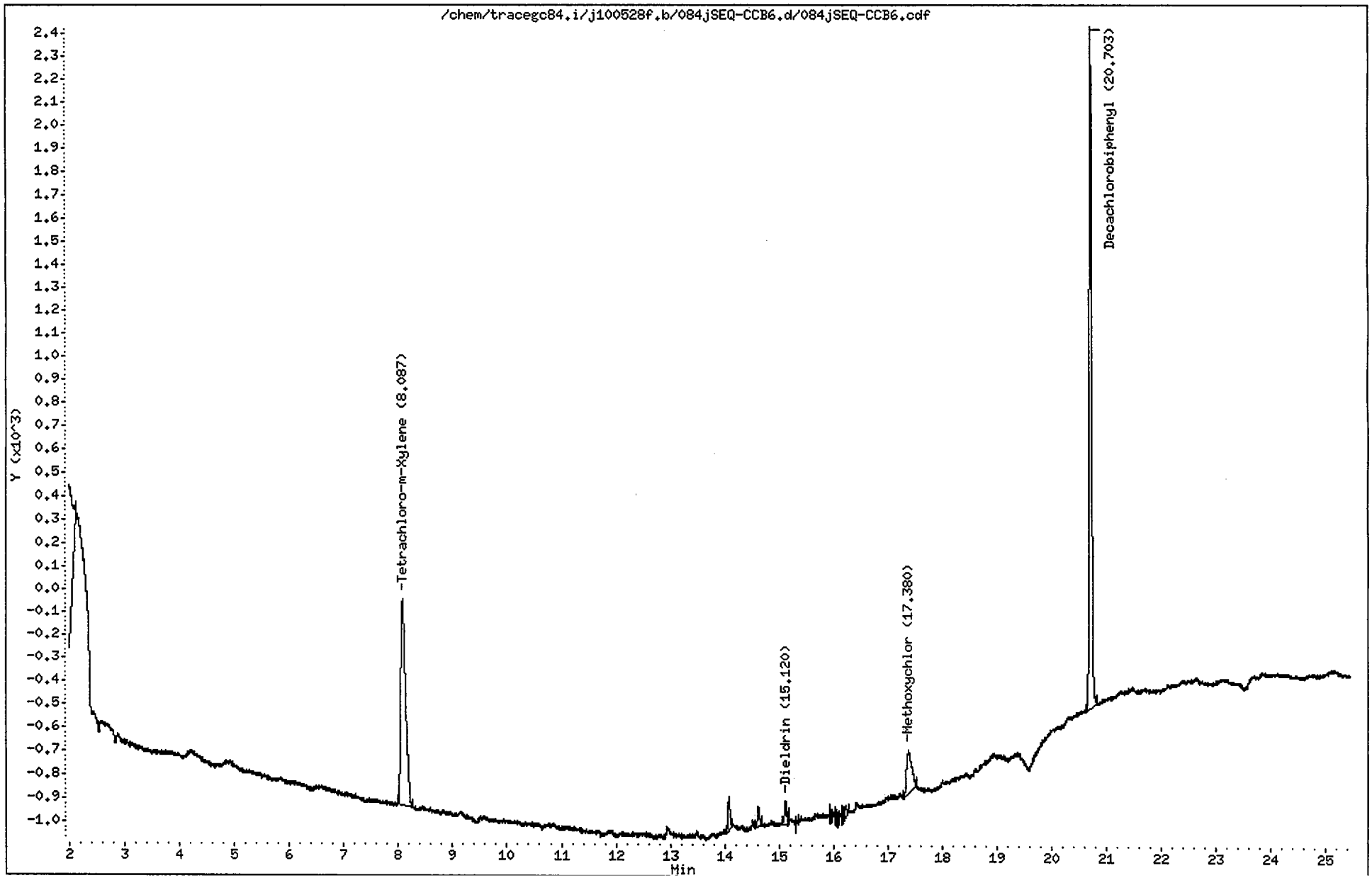
Sample Info: SEQ-CCB6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB6 Client Smp Id : PIBLKJM
Sample Type : INSTBLANK Sublist : all
Inj Date : 30-MAY-2010 08:51 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528f.b/8081A_clpestv6.m
Misc. Info : PIBLKJMJN

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.43			169						
1.56			35170						
8.09	8.01	8.15	5519	522758	Tetrachloro-m-Xylene	0.010558	0.021116		
14.08			374						
14.62			213						
15.12	15.10	15.24	274	515556	Dieldrin	0.000532	0.001065	0.040000	J
16.23			159						
17.38	17.37	17.51	1201	194359	Methoxychlor	0.006180	0.012361	0.200000	J
20.70	20.63	20.77	8468	408350	Decachlorobiphenyl	0.020738	0.041475		

AHW
6/1/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJN

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/30/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.015	J
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528f_2C.b/084jSEQ-CCB6.d

Date : 30-MAY-2010 08:51

Client ID: PIBLKJN

Instrument: tracegc84.i

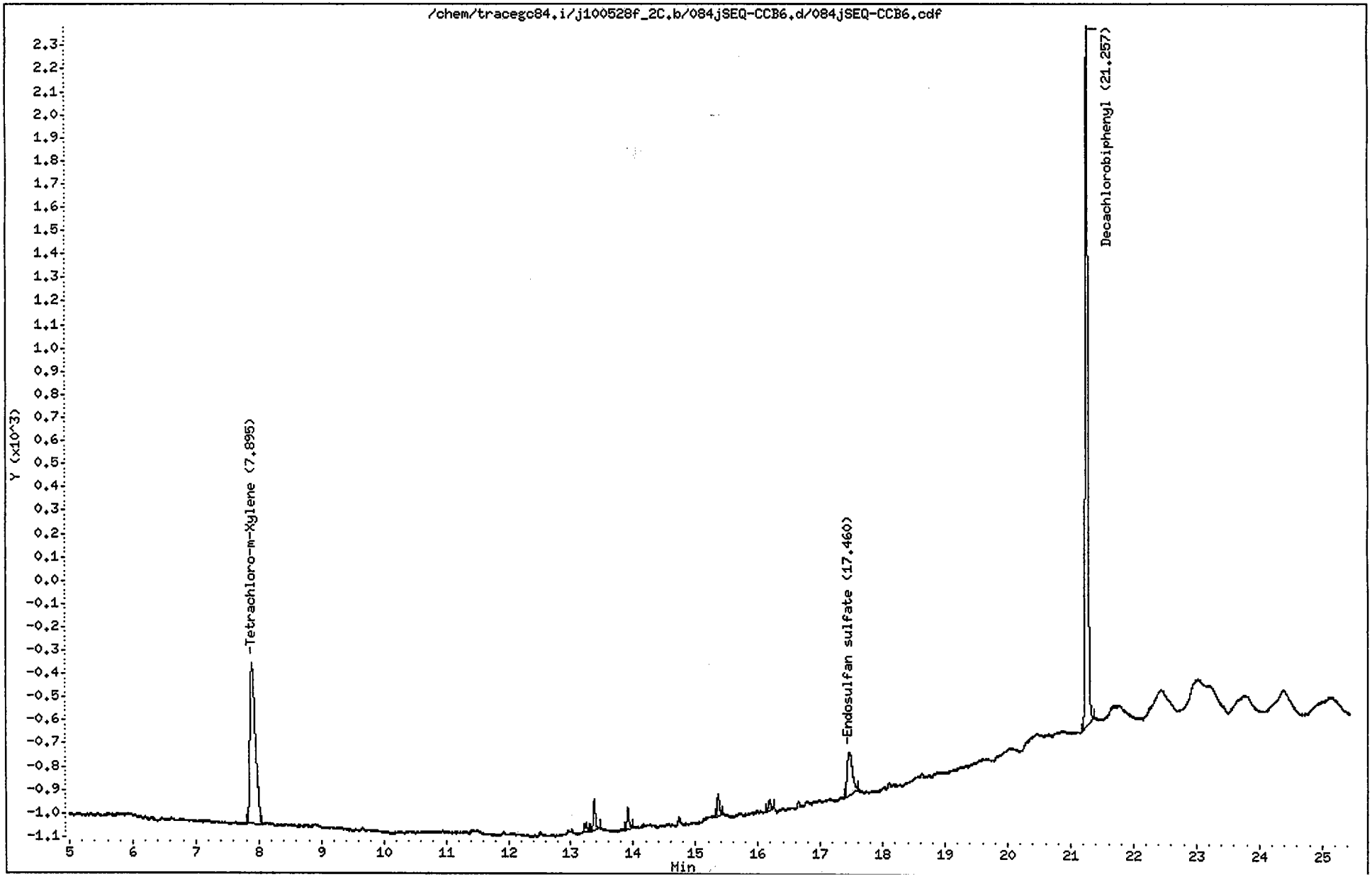
Sample Info: SEQ-CCB6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB6 Client Smp Id : PIBLKJN
Sample Type : INSTBLANK Sublist : all
Inj Date : 30-MAY-2010 08:51 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528f_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKJMJN

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.56			6839						
7.90	7.82	7.96	4140	416798	Tetrachloro-m-Xylene	0.009932	0.049661		
13.24			91						
13.38			329						
13.91			222						
15.36			245						
16.18			131						
17.46	17.42	17.56	1072	366674	Endosulfan sulfate	0.002923	0.014613	0.100000	J
21.26	21.18	21.32	8361	406698	Decachlorobiphenyl	0.020557	0.102787		

AHW
6/1/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKKE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

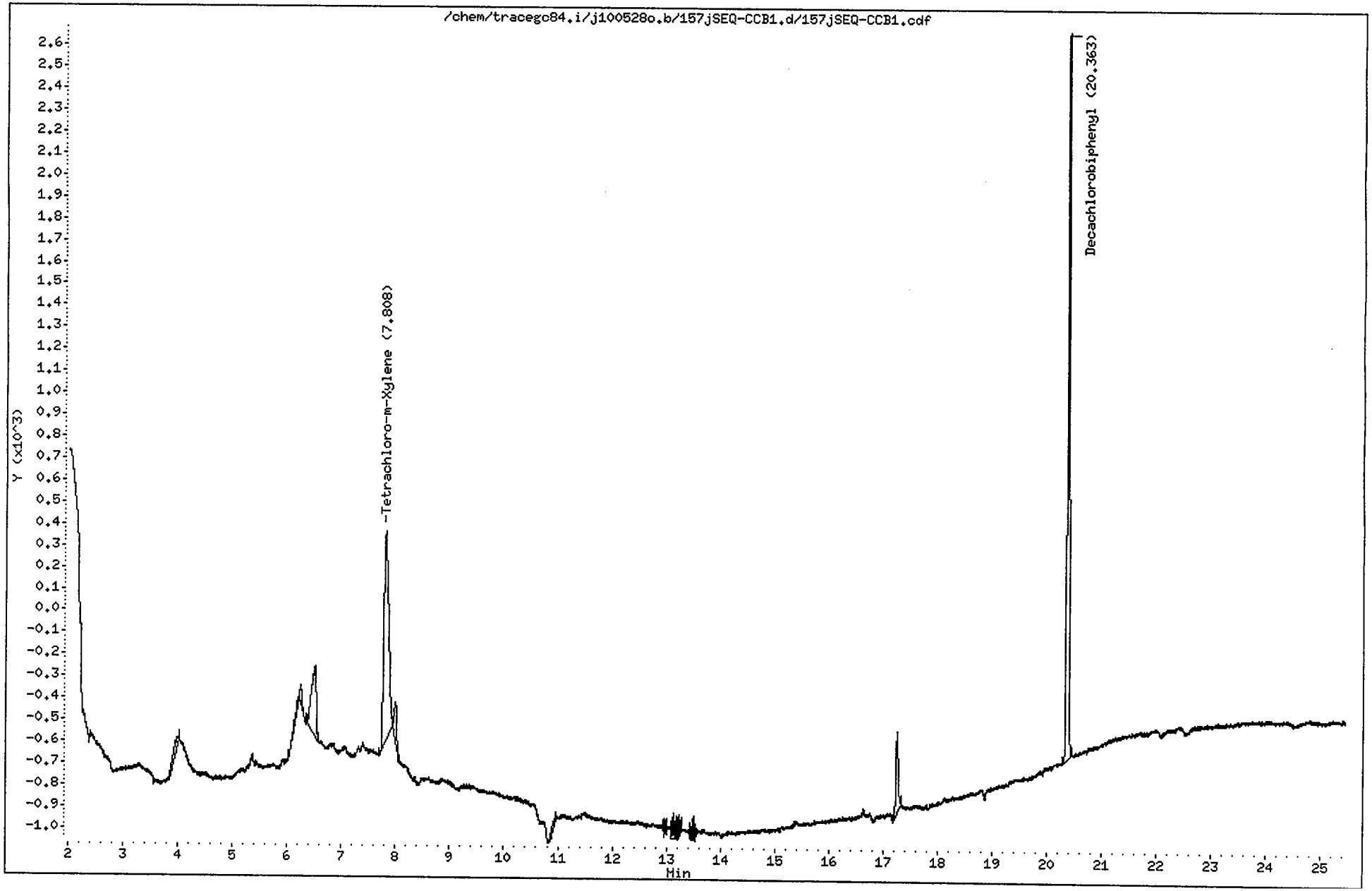
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528o.b/157jSEQ-CCB1.d
Date : 03-JUN-2010 13:04
Client ID: PIBLKKE
Sample Info: SEQ-CCB1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKKE
Sample Type : INSTBLANK Sublist : all
Inj Date : 03-JUN-2010 13:04 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o.b/8081A_clpestv6.m
Misc. Info : PIBLKKEKF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.44			32577						
3.98			360						
6.21			148						
6.25			287						
6.51			1956						
7.81	7.77	7.91	5855	522758	Tetrachloro-m-Xylene	0.011200	0.022399		
8.00			638						
10.95			132						
13.11			188						
13.23			169						
17.25			1069						
20.36	20.33	20.47	8477	408350	Decachlorobiphenyl	0.020760	0.041520		

7/6/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKKF

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528o_2C.b/157jcdfSEQ-CCB1.d

Date : 03-JUN-2010 13:04

Client ID: PIBLKKF

Sample Info: SEQ-CCB1

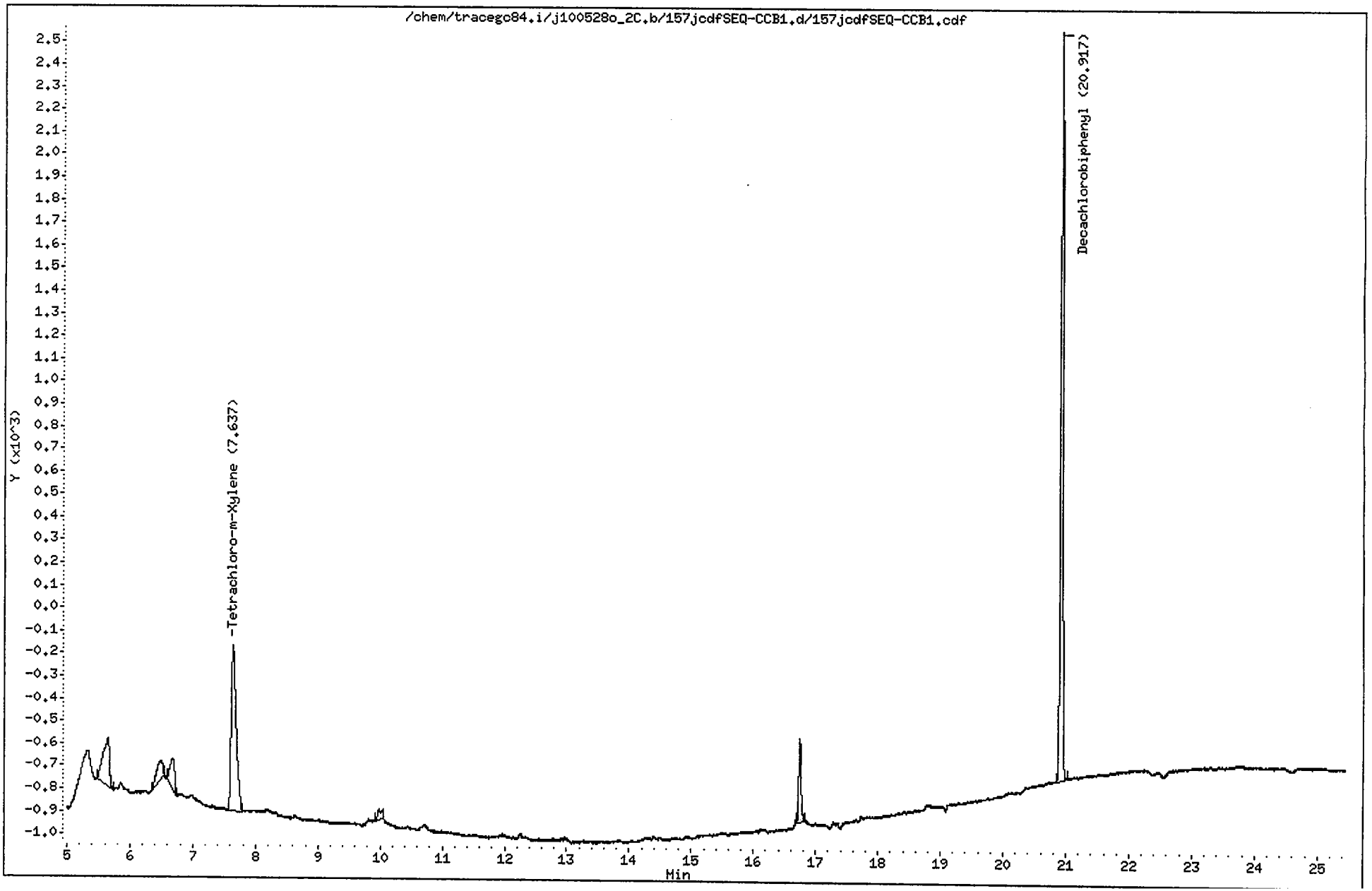
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKKF
Sample Type : INSTBLANK Sublist : all
Inj Date : 03-JUN-2010 13:04 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528o_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKKEKF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.40			12139						
1.76			534						
5.65			1527						
6.48			540						
6.67			690						
7.64	7.61	7.75	4112	416798	Tetrachloro-m-Xylene	0.009865	0.049326		
9.98			219						
16.74			945						
20.92	20.90	21.04	8353	406698	Decachlorobiphenyl	0.020540	0.102698		

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKKG

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

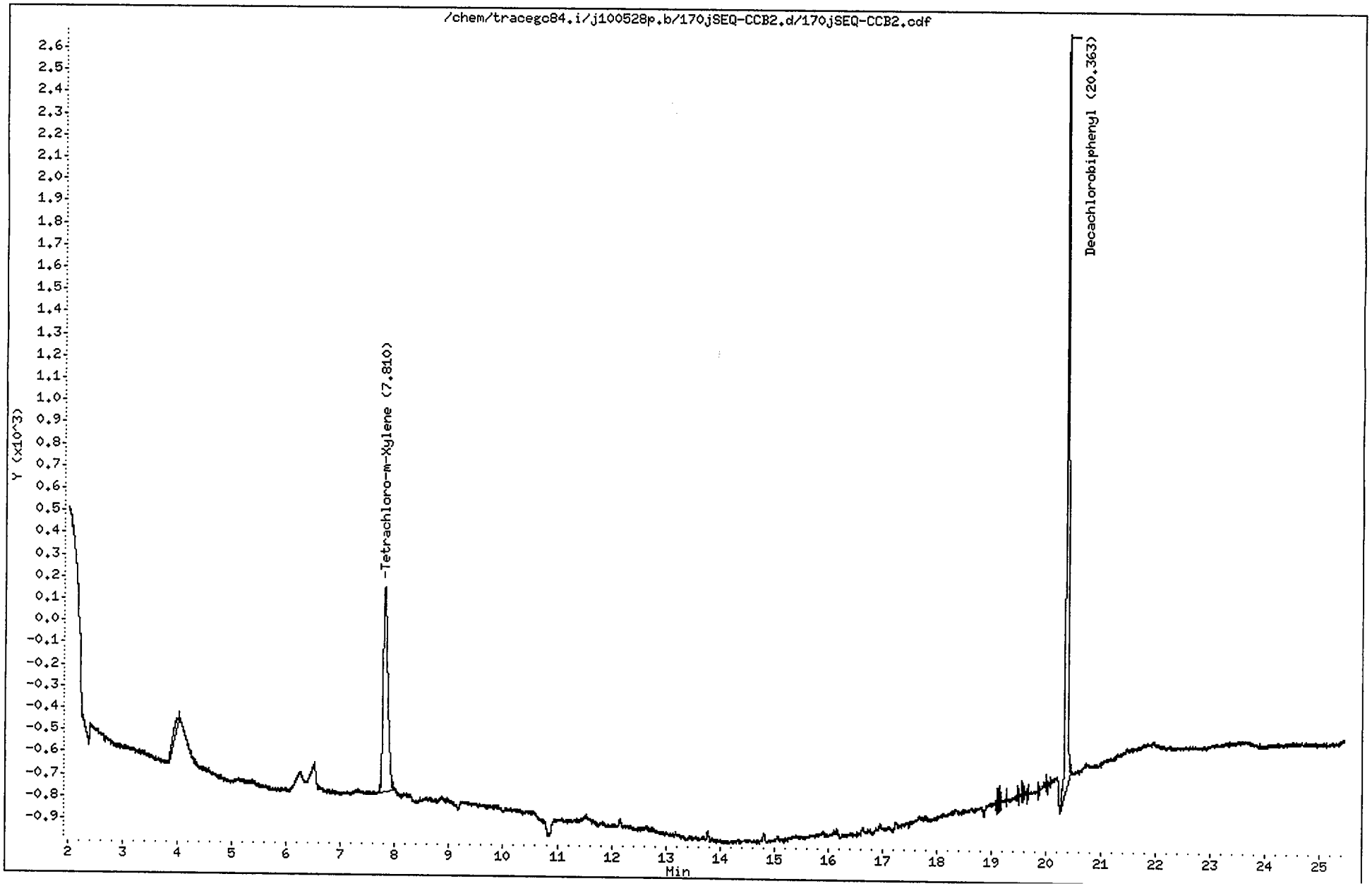
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

Data File: /chem/tracegc84.i/j100528p.b/170jSEQ-CCB2.d
Date : 03-JUN-2010 19:53
Client ID: PIBLKKG
Sample Info: SEQ-CCB2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKKG
Sample Type : INSTBLANK Sublist : all
Inj Date : 03-JUN-2010 19:53 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528p.b/8081A_clpestv6.m
Misc. Info : PIBLKKGKH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.33			153						
1.45			32151						
4.01			402						
7.81	7.77	7.91	5586	522758	Tetrachloro-m-Xylene	0.010684	0.021367		
19.14			166						
20.36	20.33	20.47	8996	408350	Decachlorobiphenyl	0.022028	0.044055		

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKKH

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528p_2C.b/170jcdfSEQ-CCB2.d

Date : 03-JUN-2010 19:53

Client ID: PIBLKKH

Sample Info: SEQ-CCB2

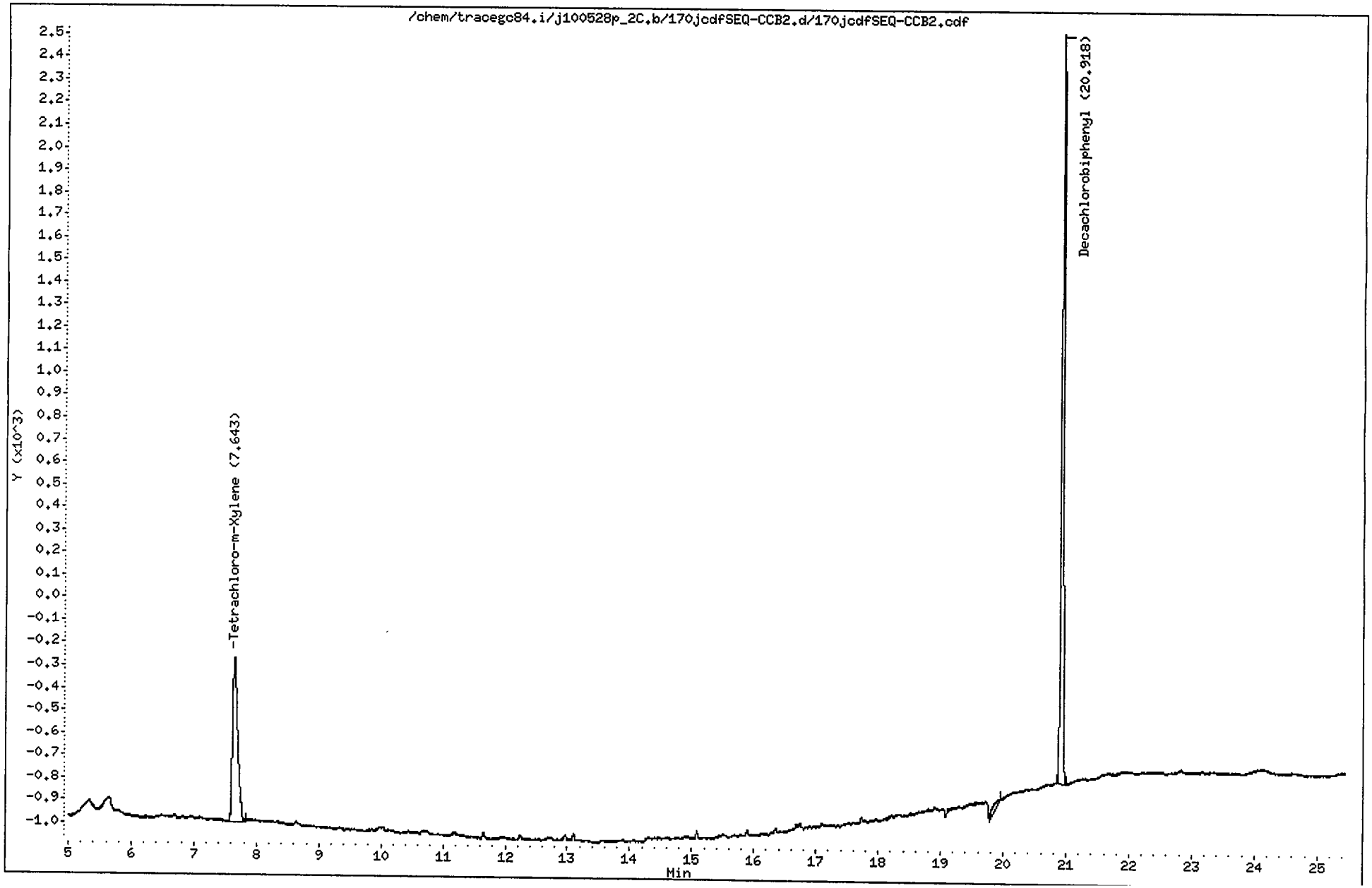
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKKH
Sample Type : INSTBLANK Sublist : all
Inj Date : 03-JUN-2010 19:53 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528p_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKKGKH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.44			7469						
1.76			226						
3.29			91						
7.64	7.61	7.75	4252	416798	Tetrachloro-m-Xylene	0.010201	0.051004		
19.92			254						
20.92	20.90	21.04	8352	406698	Decachlorobiphenyl	0.020536	0.102678		

b. Laboratory Control Sample Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBDLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 0051719-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	4.8	
319-85-7	beta-BHC	4.7	
319-84-6	alpha-BHC	5.5	
319-86-8	delta-BHC	5.8	
58-89-9	gamma-BHC (Lindane)	5.3	
72-54-8	4,4'-DDD	15	
72-55-9	4,4'-DDE	13	
50-29-3	4,4'-DDT	14	
60-57-1	Dieldrin	12	
959-98-8	Endosulfan I	5.0	
33213-65-9	Endosulfan II	14	
1031-07-8	Endosulfan sulfate	13	
72-20-8	Endrin	14	
7421-93-4	Endrin Aldehyde	5.7	
76-44-8	Heptachlor	6.3	
1024-57-3	Heptachlor Epoxide	5.7	
72-43-5	Methoxychlor	13	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	15	
5103-74-2	gamma-Chlordane	5.7	B
5103-71-9	alpha-Chlordane	5.9	

Data File: /chem/tracegc84.i/j100528c.b/052j0051719-BS1.d

Date : 29-MAY-2010 17:26

Client ID: PBDLCS

Instrument: tracegc84.i

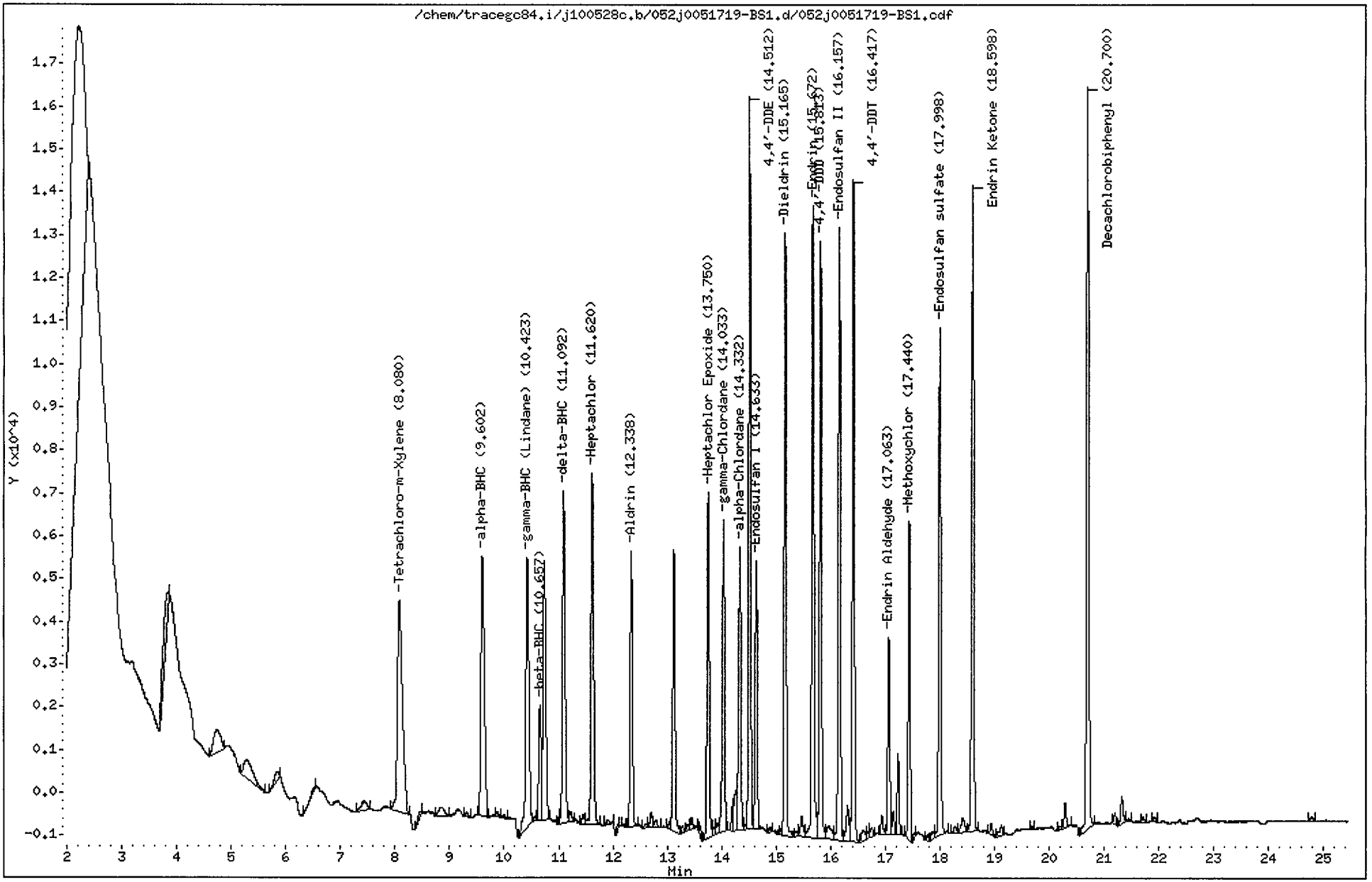
Sample Info: 0051719-BS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



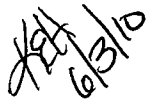
CompuChem

Lab Smp Id : 0051719-BS1 Client Smp Id : PBDLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:26 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : PBDLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57			13329								
2.23			131618								
3.85			6438								
4.74			4810								
5.27			5057								
5.83			1135								
6.53			465								
7.43			1465								
8.08	8.01	8.15	31759	522758	Tetrachloro-m-Xylene	0.060753	10.12547		101.3	70 - 125	
8.46			415								
8.85			1471								
9.31			332								
9.60	9.53	9.67	25828	775960	alpha-BHC	0.033284	5.547322	1.700000	110.9	60 - 125	
9.87			383								
9.99			211								
10.42	10.36	10.50	25178	729192	gamma-BHC (Lindane)	0.034527	5.754539	1.700000	115.1	60 - 125	
10.56			279								
10.66	10.59	10.73	8398	300532	beta-BHC	0.027940	4.656734	0.851000	93.1	60 - 125	
10.74			21096								
11.02			349								
11.09	11.02	11.16	25173	689518	delta-BHC	0.036507	6.084448	1.700000	121.7	55 - 130	
11.22			753								
11.45			745								
11.62	11.55	11.69	26620	695465	Heptachlor	0.038277	6.379425	1.700000	127.6	50 - 140	
11.90			395								
12.08			271								
12.19			146								
12.34	12.27	12.41	18731	636570	Aldrin	0.029423	4.903886	1.700000	98.1	45 - 140	
12.61			303								
12.71			1095								
12.79			599								
13.03			346								
13.12			18881								
13.28			379								
13.38			474								
13.44			882								
13.60			432								



CompuChem

Lab Smp Id : 0051719-BS1 Client Smp Id : PBDLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:26 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : PBDLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.75	13.68 13.82	22327	593700	Heptachlor Epoxide	0.037607	6.267756	1.700000	125.4	65 - 130	
13.88		553								
13.93		745								
14.03	13.97 14.11	20339	594875	gamma-Chlordane	0.034190	5.698396	1.700000	114.0	65 - 125	
14.20		1168								
14.26		3419								
14.33	14.27 14.41	18430	516712	alpha-Chlordane	0.035666	5.944311	1.700000	118.9	65 - 120	
14.43		322								
14.51	14.45 14.59	41963	523741	4,4'-DDE	0.080122	13.35360	3.300000	106.8	70 - 125	
14.63	14.57 14.71	16483	548162	Endosulfan I	0.030068	5.011288	1.700000	100.2	15 - 135	
14.89		313								
15.06		331								
15.16	15.10 15.24	37472	515556	Dieldrin	0.072681	12.11345	3.300000	96.9	65 - 125	
15.37		397								
15.47		1746								
15.67	15.61 15.75	40428	463071	Endrin	0.087304	14.55068	3.300000	116.4	60 - 135	
15.81	15.75 15.89	34940	393458	4,4'-DDD	0.088802	14.80041	3.300000	118.4	30 - 135	
15.96		2107								
16.16	16.09 16.23	37707	450326	Endosulfan II	0.083730	13.95507	3.300000	111.6	35 - 140	
16.31		3072								
16.42	16.35 16.49	38773	454781	4,4'-DDT	0.085254	14.20903	3.300000	113.7	45 - 140	
16.60		1181								
16.70		528								
16.75		665								
16.94		1252								
17.06	17.00 17.14	11982	348470	Endrin Aldehyde	0.034382	5.730288	3.300000	45.8	35 - 145	
17.15		1389								
17.23		4455								
17.44	17.37 17.51	17927	194359	Methoxychlor	0.092231	15.37190	17.00000	123.0	55 - 145	J
17.54		272								
17.77		399								
17.86		583								
18.00	17.93 18.07	31516	392055	Endosulfan sulfate	0.080387	13.39778	3.300000	107.2	60 - 135	
18.28		515								
18.42		1498								
18.60	18.53 18.67	39979	457258	Endrin Ketone	0.087430	14.57166	3.300000	116.6	65 - 135	
18.95		737								

CompuChem

Lab Smp Id : 0051719-BS1 Client Smp Id : PBDLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:26 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : PBDLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.13		979								
19.68		188								
20.18		233								
20.29		1765								
20.70	20.63 20.77	49114	408350	Decachlorobiphenyl	0.120272	20.04530		100.2	55 - 130	
21.20		735								
21.33		2015								
21.45		183								
21.71		350								
21.92		344								
24.78		319								

Data File: /chem/tracegc84.i/j100528c_2C.b/052j0051719-BS1.d

Date : 29-MAY-2010 17:26

Client ID: PBDLCS

Instrument: tracegc84.i

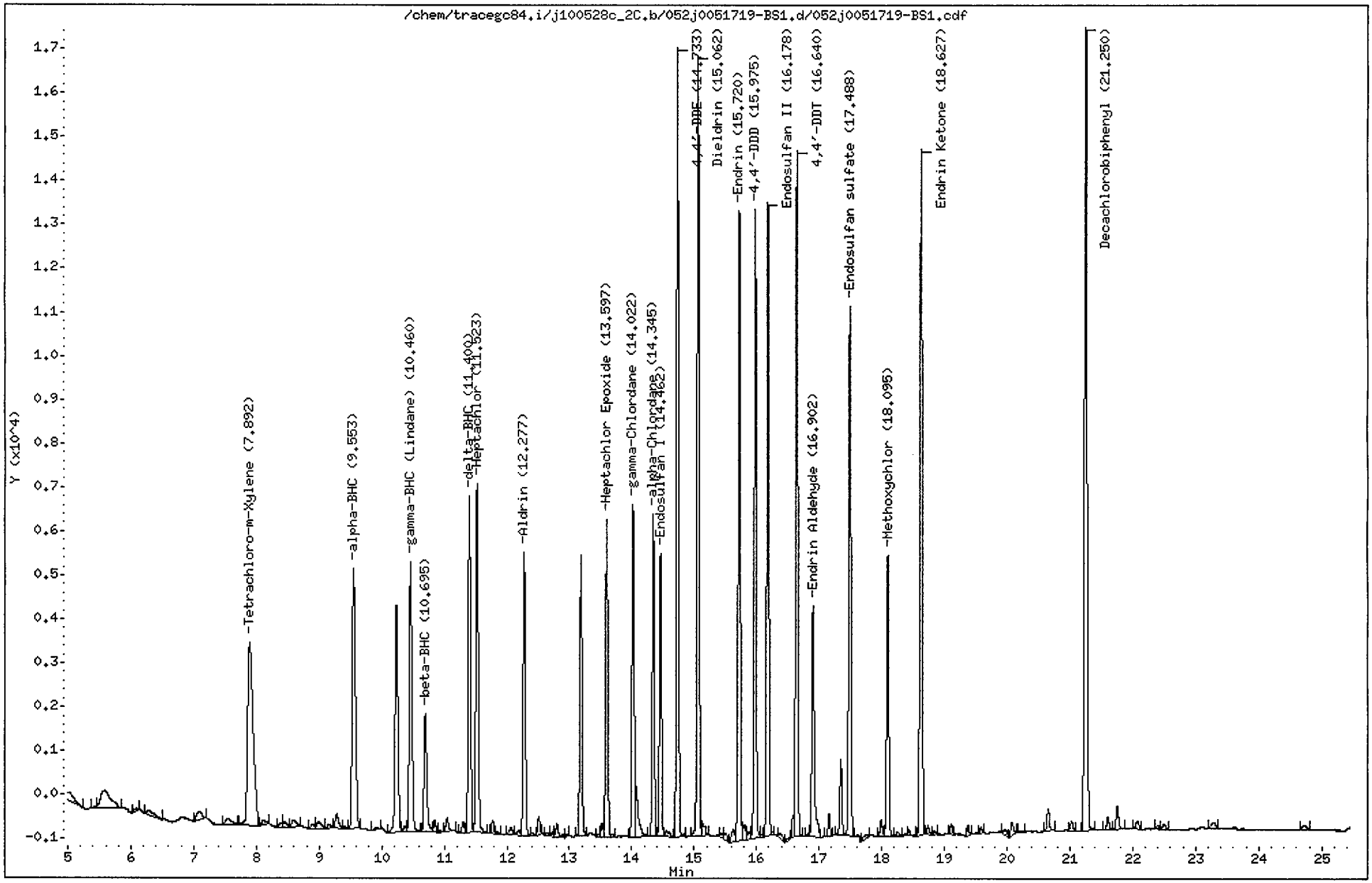
Sample Info: 0051719-BS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051719-BS1 Client Smp Id : PBDLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:26 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : PBDLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.05			249008								
2.08			348160								
3.19			5166								
4.24			939								
5.00			2558								
5.45			142								
5.57			4497								
6.08			274								
6.28			875								
7.08			1156								
7.54			982								
7.89	7.82	7.96	25535	416798	Tetrachloro-m-Xylene	0.061262	10.21039		102.1	70 - 125	
8.13			537								
8.39			308								
8.45			475								
8.60			734								
8.91			338								
8.98			767								
9.16			339								
9.28			1156								
9.41			149								
9.55	9.48	9.62	21227	607758	alpha-BHC	0.034927	5.821127	1.700000	116.4	60 - 125	
9.92			185								
10.24			16370								
10.37			437								
10.46	10.39	10.53	18638	585542	gamma-BHC (Lindane)	0.031829	5.304767	1.700000	106.1	60 - 125	
10.70	10.63	10.77	8231	248610	beta-BHC	0.033108	5.518013	0.851000	110.4	60 - 125	
10.85			656								
10.93			120								
11.04			1007								
11.30			683								
11.40	11.33	11.47	19358	551235	delta-BHC	0.035116	5.852616	1.700000	117.1	55 - 130	
11.52	11.45	11.59	21848	579497	Heptachlor	0.037702	6.283607	1.700000	125.7	50 - 140	
11.77			802								
11.85			120								
12.07			627								
12.19			352								

6/3/10

CompuChem

Lab Smp Id : 0051719-BS1 Client Smp Id : PBDLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:26 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : PBDLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.28	12.21 12.35	15792	542192	Aldrin	0.029126	4.854364	1.700000	97.1	45 - 140	
12.40		111								
12.51		1010								
12.64		240								
12.72		265								
12.80		941								
12.96		112								
13.18		15357								
13.47		120								
13.52		767								
13.60	13.53 13.67	17469	511912	Heptachlor Epoxide	0.034125	5.687495	1.700000	113.7	65 - 130	
14.02	13.95 14.09	19015	513150	gamma-Chlordane	0.037055	6.175907	1.700000	123.5	65 - 125	M 2
14.06		3639								
14.34	14.28 14.42	16473	446248	alpha-Chlordane	0.036912	6.152042	1.700000	123.0*	65 - 120	R
14.46	14.39 14.53	14745	477982	Endosulfan I	0.030848	5.141402	1.700000	102.8	15 - 135	
14.56		589								
14.73	14.67 14.81	39142	468602	4,4'-DDE	0.083527	13.92118	3.300000	111.4	70 - 125	
15.06	14.99 15.13	40682	461929	Dieldrin	0.088070	14.67831	3.300000	117.4	65 - 125	
15.14		948								
15.44		236								
15.51		578								
15.63		1006								
15.72	15.65 15.79	33704	408649	Endrin	0.082477	13.74612	3.300000	110.0	60 - 135	
15.81		1091								
15.88		574								
15.98	15.91 16.05	30756	340626	4,4'-DDD	0.090290	15.04826	3.300000	120.4	30 - 135	M 2
16.07		175								
16.18	16.11 16.25	33330	404930	Endosulfan II	0.082311	13.71842	3.300000	109.7	35 - 140	M 2
16.26		164								
16.38		497								
16.52		126								
16.58		920								
16.64	16.57 16.71	34710	405929	4,4'-DDT	0.085505	14.25086	3.300000	114.0	45 - 140	
16.84		115								
16.90	16.83 16.97	14262	316985	Endrin Aldehyde	0.044990	7.498252	3.300000	60.0	35 - 145	
17.16		1123								
17.35		3960								

6/3/10

CompuChem

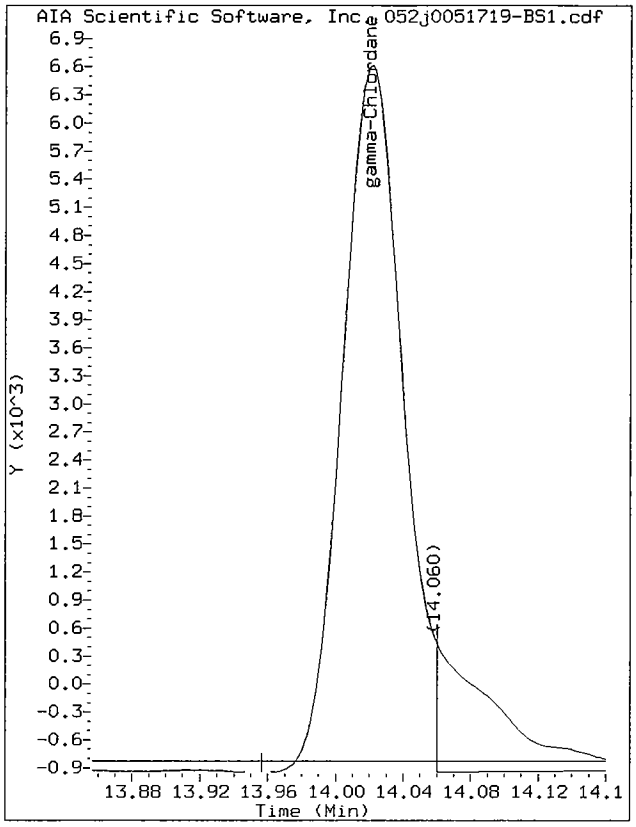
Lab Smp Id : 0051719-BS1 Client Smp Id : PBDLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:26 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : PBDLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

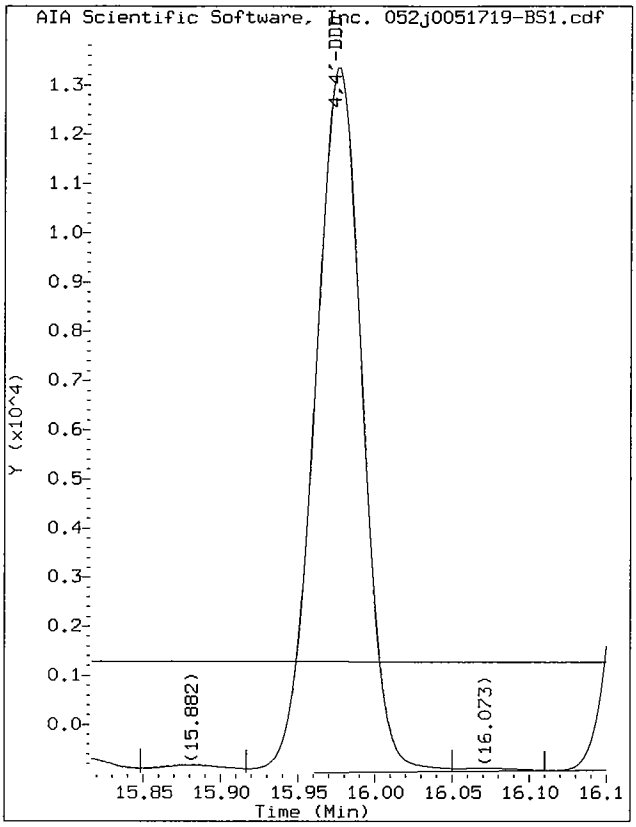
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.49	17.42 17.56	28419	366674	Endosulfan sulfate	0.077505	12.91748	3.300000	103.3	60 - 135	
17.75		352								
17.99		893								
18.10	18.03 18.17	14433	182916	Methoxychlor	0.078905	13.15086	17.00000	105.2	55 - 145	J
18.25		265								
18.43		295								
18.63	18.56 18.70	37392	419519	Endrin Ketone	0.089128	14.85472	3.300000	118.8	65 - 135	
18.74		509								
18.84		200								
19.11		654								
19.37		535								
19.58		293								
19.96		550								
20.08		966								
20.21		110								
20.65		1315								
21.03		640								
21.25	21.18 21.32	49767	406698	Decachlorobiphenyl	0.122366	20.39436		102.0	55 - 130	
21.60		753								
21.75		1530								
22.08		683								
22.40		233								
22.50		365								
23.29		580								
24.73		499								

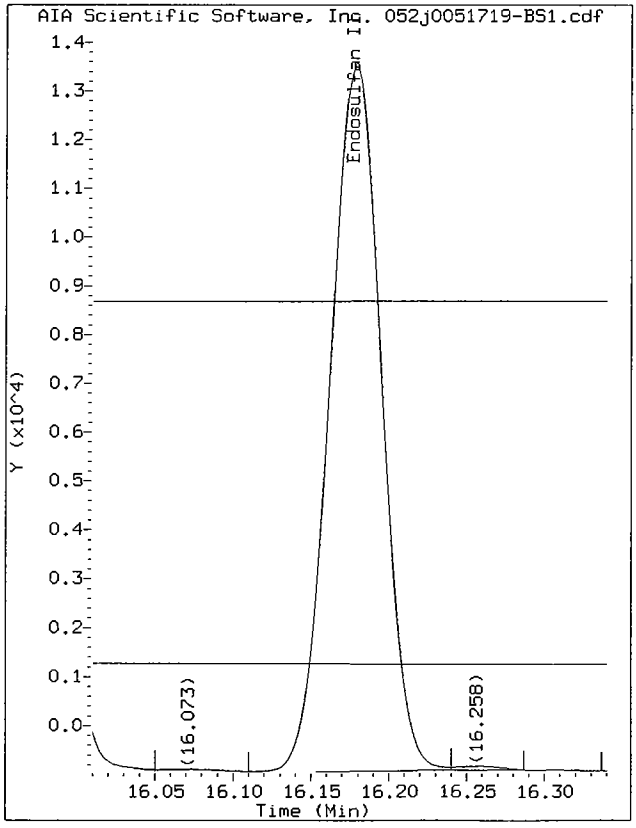
Manually Integrated Peaks



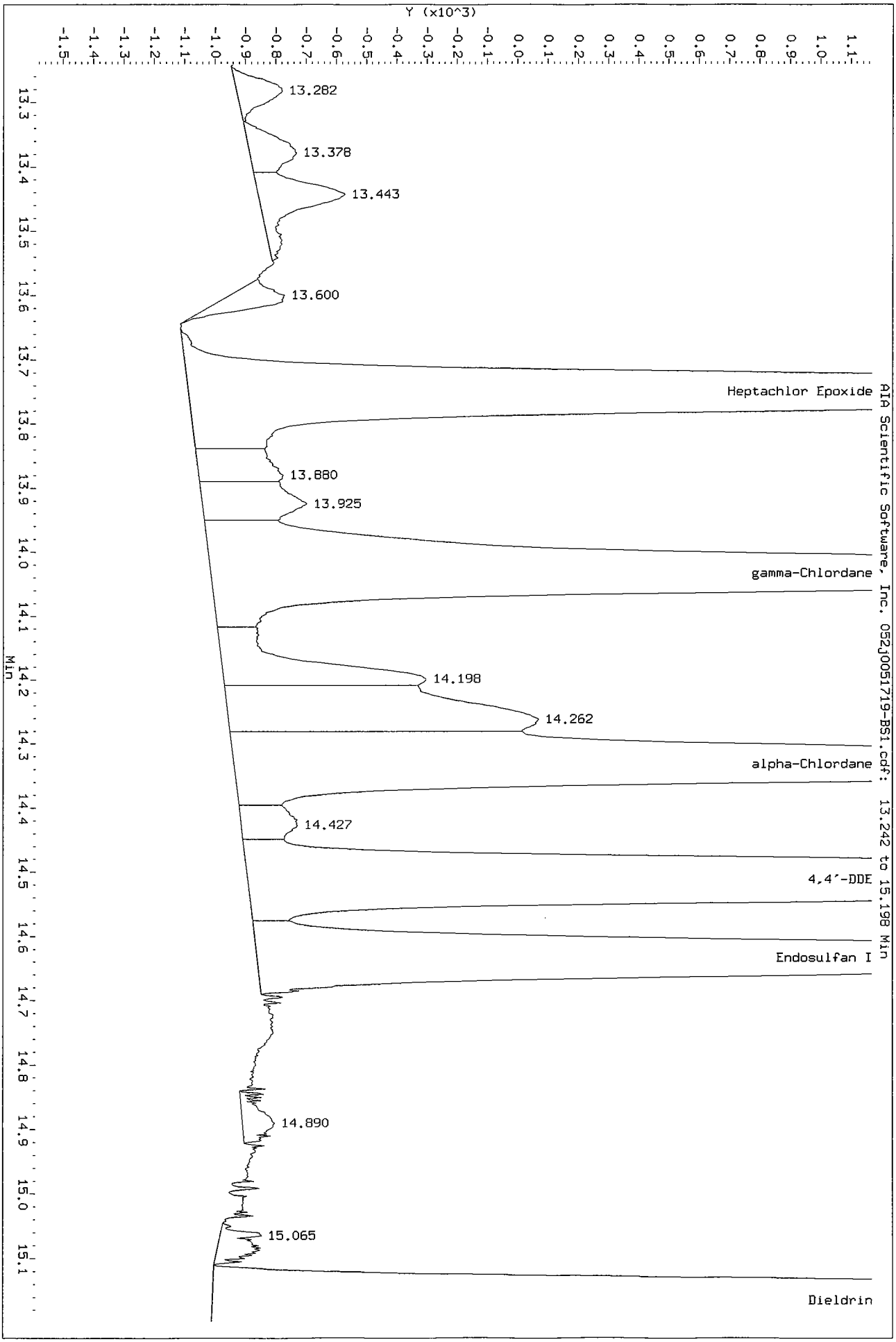
Start: 13.96 Stop: 14.06



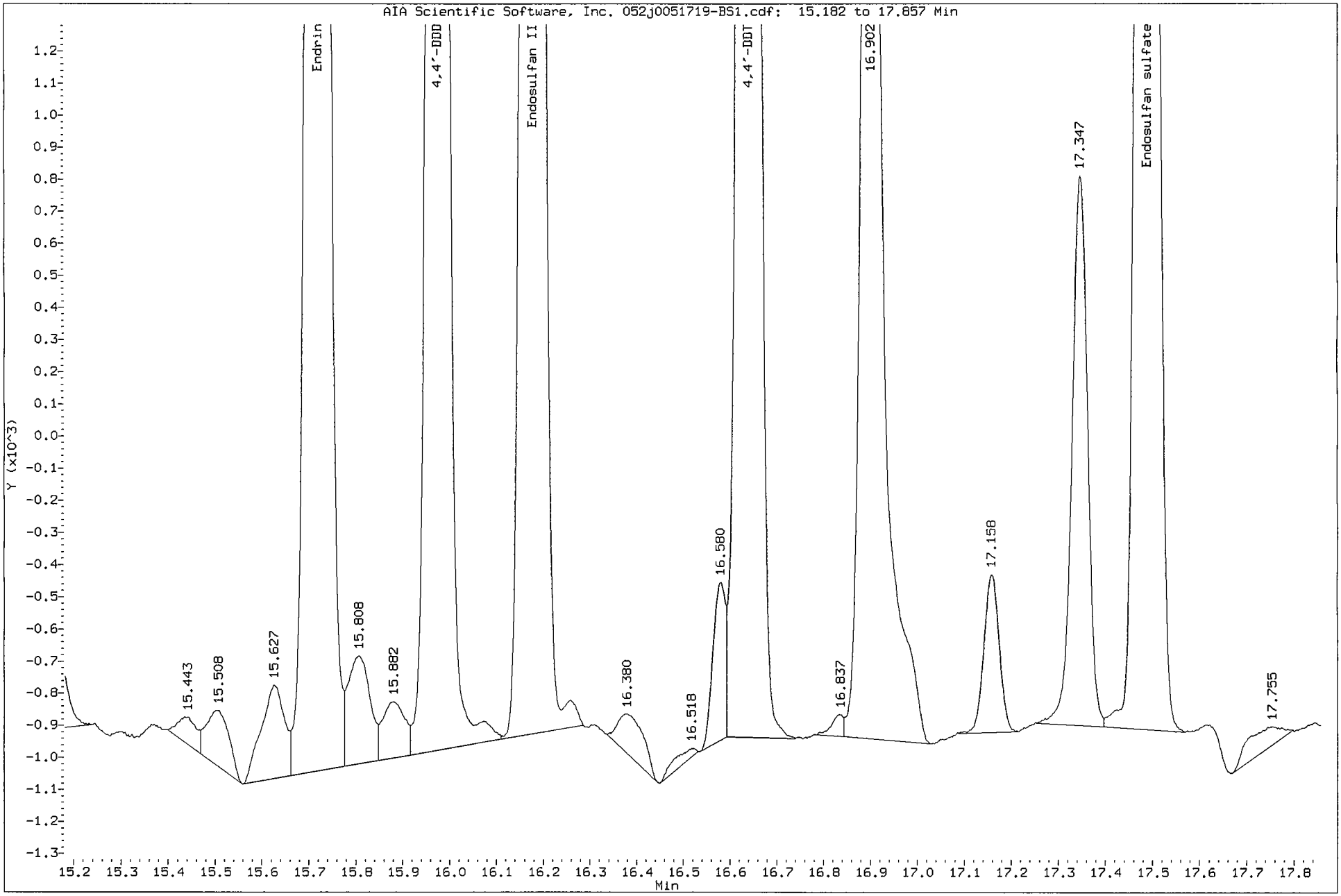
Start: 15.92 Stop: 16.05



Start: 16.11 Stop: 16.24


Data File: /chem/tracegc84.i/j100528c.b/052j0051719-BS1.d/052j0051719-BS1.cdf
Injection Date: 29-MAY-2010 17:26
Instrument: tracegc84.i
Client Sample ID: PBDLCS
Y (x10^3)
13.282
13.378
13.443
13.600
Heptachlor Epoxide
13.880
13.925
gamma-Chlordane
14.198
14.262
alpha-Chlordane
14.427
4,4'-DDE
Endosulfan I
14.890
15.065
Dieldrin
AIA Scientific Software, Inc. 052j0051719-BS1.cdf: 13.242 to 15.198 Min
Min

Data File: /chem/tracegc84.i/j100528c_2C.b/052j0051719-BS1.d/052j0051719-BS1.cdf
Injection Date: 29-MAY-2010 17:26
Instrument: tracegc84.i
Client Sample ID: PBDLCS



c. Matrix Spike Data

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 0051719-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	9.1	
319-85-7	beta-BHC	6.1	P
319-84-6	alpha-BHC	6.0	
319-86-8	delta-BHC	12	
58-89-9	gamma-BHC (Lindane)	6.3	P
72-54-8	4,4'-DDD	21	
72-55-9	4,4'-DDE	21	
50-29-3	4,4'-DDT	21	P
60-57-1	Dieldrin	17	
959-98-8	Endosulfan I	9.1	
33213-65-9	Endosulfan II	22	
1031-07-8	Endosulfan sulfate	42	EP
72-20-8	Endrin	21	
7421-93-4	Endrin Aldehyde	17	P
76-44-8	Heptachlor	7.6	
1024-57-3	Heptachlor Epoxide	9.5	
72-43-5	Methoxychlor	30	
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	15	P
5103-74-2	gamma-Chlordane	8.5	BP
5103-71-9	alpha-Chlordane	12	

Data File: /chem/tracegc84.i/j100528c.b/053j0051719-MS1.d

Date : 29-MAY-2010 17:55

Client ID: SS53-0-1MS

Instrument: tracegc84.i

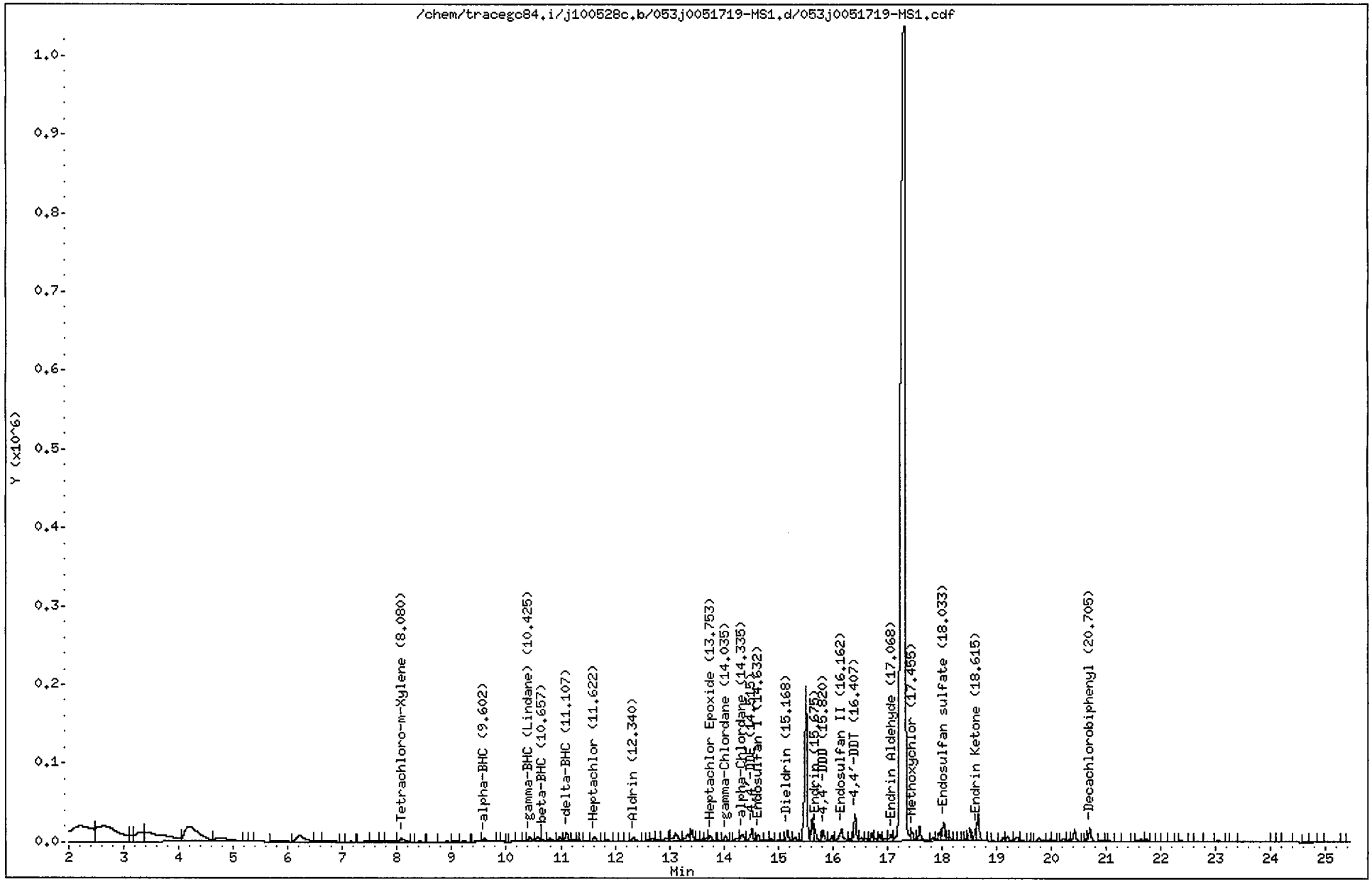
Sample Info: 0051719-MS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



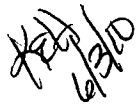
CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.14			358								
1.25			489								
1.60			67176								
1.65			27172								
1.73			42166								
2.21			638889								
2.62			542325								
3.12			45217								
3.33			127187								
3.42			291592								
4.18			342702								
4.75			69960								
5.33			212								
5.86			17875								
6.21			85689								
6.55			8821								
6.70			15564								
7.15			3326								
7.45			3724								
7.56			5531								
7.74			2629								
7.83			8048								
8.08	8.01	8.15	27564	522758	Tetrachloro-m-Xylene	0.052726	11.71693		87.9	70 - 125	
8.27			449								
8.42			4998								
8.61			3007								
8.92			3330								
9.06			6416								
9.21			6973								
9.49			8978								
9.60	9.53	9.67	21027	775960	alpha-BHC	0.027098	6.021788	2.266667	90.3	60 - 125	
9.86			220								
9.90			869								
10.12			3733								
10.21			1826								
10.33			317								
10.42	10.36	10.50	20621	729192	gamma-BHC (Lindane)	0.028279	6.284273	2.266667	94.3	60 - 125	



CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.59		27158								
10.66	10.59 10.73	8239	300532	beta-BHC	0.027411	6.091410	1.134667	91.4	60 - 125	
10.79		17716								
10.98		17575								
11.11	11.02 11.16	38654	689518	delta-BHC	0.056058	12.45734	2.266667	186.9*	55 - 130	R
11.23		8486								
11.30		4357								
11.36		4197								
11.48		1720								
11.62	11.55 11.69	23674	695465	Heptachlor	0.034041	7.564563	2.266667	113.5	50 - 140	
11.77		2463								
11.86		9829								
12.00		2433								
12.10		2986								
12.22		4692								
12.34	12.27 12.41	25936	636570	Aldrin	0.040743	9.054080	2.266667	135.8	45 - 140	
12.53		1943								
12.61		3290								
12.68		17195								
12.78		10158								
12.94		19939								
13.01		5271								
13.12		59835								
13.34		41019								
13.42		46150								
13.51		6793								
13.60		7658								
13.68		11135								
13.75	13.68 13.82	27721	593700	Heptachlor Epoxide	0.046690	10.37561	2.266667	155.6*	65 - 130	R
13.87		728								
13.91		2270								
14.04	13.97 14.11	22757	594875	gamma-Chlordane	0.038255	8.501132	2.266667	127.5*	65 - 125	R
14.14		551								
14.21		16003								
14.34	14.27 14.41	38188	516712	alpha-Chlordane	0.073904	16.42306	2.266667	246.3*	65 - 120	R
14.52	14.45 14.59	52722	523741	4,4'-DDE	0.100662	22.36940	4.400000	134.2*	70 - 125	R
14.63	14.57 14.71	26189	548162	Endosulfan I	0.047774	10.61648	2.266667	159.2*	15 - 135	R

CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.79		5462								
14.87		8854								
15.00		2447								
15.09		4218								
15.17	15.10 15.24	40590	515556	Dieldrin	0.078729	17.49524	4.400000	105.0	65 - 125	
15.31		14318								
15.51		572501								
15.62		75029								
15.68	15.61 15.75	43501	463071	Endrin	0.093938	20.87512	4.400000	125.3	60 - 135	
15.82	15.75 15.89	37958	393458	4,4'-DDD	0.096470	21.43787	4.400000	128.6	30 - 135	
15.99		21136								
16.16	16.09 16.23	67880	450326	Endosulfan II	0.150735	33.49670	4.400000	201.0*	35 - 140	R
16.31		7453								
16.41	16.35 16.49	100676	454781	4,4'-DDT	0.221370	49.19337	4.400000	295.2*	45 - 140	RE
16.52		14844								
16.61		8471								
16.72		28378								
16.79		8848								
16.86		21750								
16.99		12508								
17.07	17.00 17.14	26772	348470	Endrin Aldehyde	0.076824	17.07209	4.400000	102.4	35 - 145	
17.30		5903687								
17.46	17.37 17.51	39128	194359	Methoxychlor	0.201313	44.73623	22.66667	268.4*	55 - 145	R
17.59		55129								
17.83		12313								
17.95		31912								
18.03	17.93 18.07	73405	392055	Endosulfan sulfate	0.187231	41.60697	4.400000	249.6*	60 - 135	RE
18.10		10135								
18.15		13261								
18.24		2153								
18.31		4099								
18.37		2647								
18.44		5607								
18.51		44857								
18.62	18.53 18.67	30747	457258	Endrin Ketone	0.067242	14.94271	4.400000	89.7	65 - 135	
18.66		104145								
18.95		2150								

CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.11		13748								
19.20		21617								
19.38		23009								
19.46		5355								
19.60		1403								
19.66		981								
19.78		16821								
19.98		7646								
20.06		5778								
20.12		940								
20.23		14618								
20.32		8851								
20.43		47711								
20.58		2086								
20.64		6493								
20.70	20.63 20.77	52866	408350	Decachlorobiphenyl	0.129462	28.76944		107.9	55 - 130	
20.89		6937								
21.01		1791								
21.06		4000								
21.22		2547								
21.34		5791								
21.52		2555								
21.64		16864								
21.74		12709								
21.83		1359								
22.00		852								
22.08		2367								
22.18		2429								
22.29		891								
22.38		6833								
22.55		731								
22.64		1750								
22.85		4164								
23.04		5158								
23.34		1076								
24.06		287								
24.15		1841								

CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.25		2073								
24.64		1896								
24.77		1874								
24.91		421								
25.36		176								

Data File: /chem/tracegc84.i/j100528c_2C.b/053j0051719-MS1.d

Page 1

Date : 29-MAY-2010 17:55

Client ID: SS53-0-1MS

Instrument: tracegc84.i

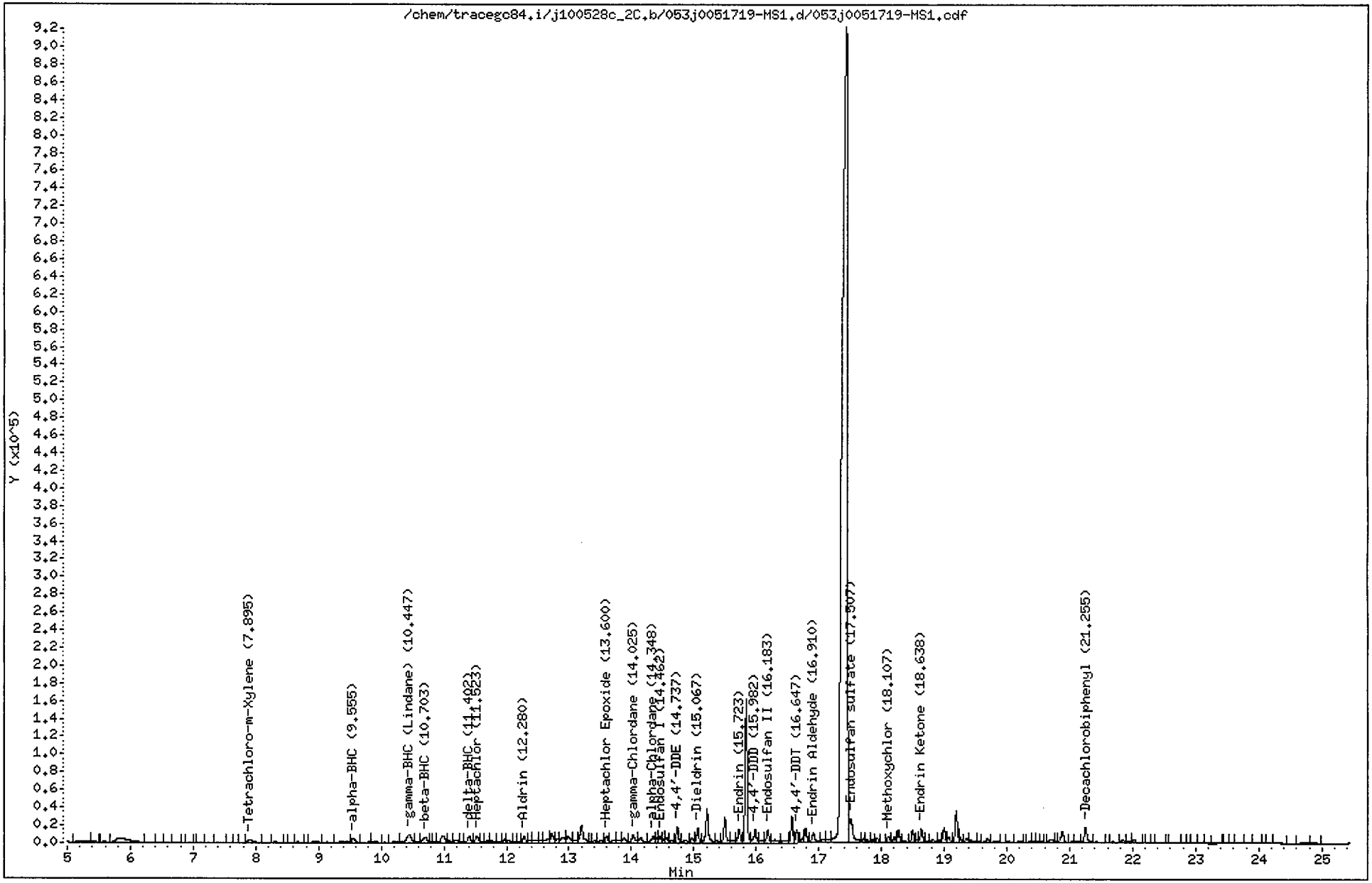
Sample Info: 0051719-MS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.11			134								
1.26			171								
2.03			64603								
2.07			6448								
2.18			6186								
2.62			6068								
2.97			859								
3.06			6447								
3.75			191176								
4.21			138								
4.27			7765								
5.22			6932								
5.42			2120								
5.52			151								
5.59			1583								
5.83			59170								
6.47			741								
6.59			722								
6.86			97								
7.04			169								
7.15			1152								
7.21			1367								
7.39			1220								
7.58			1219								
7.67			279								
7.78			705								
7.90	7.82	7.96	20424	416798	Tetrachloro-m-Xylene	0.049000	10.88885		81.7	70 - 125	
8.21			452								
8.30			4451								
8.56			880								
8.68			1846								
8.93			13710								
9.13			5843								
9.40			12964								
9.56	9.48	9.62	21515	607758	alpha-BHC	0.035399	7.866442	2.266667	118.0	60 - 125	
9.80			5569								
9.89			10498								

6/3/10

CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.05		3314								
10.25		6627								
10.45	10.39 10.53	52009	585542	gamma-BHC (Lindane)	0.088822	19.73820	2.266667	296.1*	60 - 125	RE
10.57		7941								
10.70	10.63 10.77	30970	248610	beta-BHC	0.124569	27.68191	1.134667	415.2*	60 - 125	RE
10.82		3042								
10.85		4424								
10.99		40235								
11.09		8055								
11.18		14526								
11.29		3701								
11.40	11.33 11.47	29810	551235	delta-BHC	0.054079	12.01746	2.266667	180.3*	55 - 130	R
11.52	11.45 11.59	27552	579497	Heptachlor	0.047545	10.56548	2.266667	158.5*	50 - 140	R
11.60		6482								
11.69		8042								
11.76		11115								
11.88		6833								
11.96		12080								
12.03		11963								
12.12		5597								
12.20		6161								
12.28	12.21 12.35	24306	542192	Aldrin	0.044827	9.961612	2.266667	149.4*	45 - 140	R
12.37		10900								
12.46		16373								
12.55		12760								
12.67		19202								
12.72		34445								
12.80		13959								
12.90		26832								
12.98		32927								
13.11		13210								
13.20		75229								
13.35		4607								
13.40		7923								
13.52		11865								
13.60	13.53 13.67	21842	511912	Heptachlor Epoxide	0.042665	9.481221	2.266667	142.2*	65 - 130	R
13.72		13632								

CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.81		12338								
13.88		17238								
14.02	13.95 14.09	36194	513150	gamma-Chlordane	0.070531	15.67356	2.266667	235.1*	65 - 125	R
14.15		20261								
14.35	14.28 14.42	23343	446248	alpha-Chlordane	0.052307	11.62384	2.266667	174.4*	65 - 120	R
14.41		12993								
14.46	14.39 14.53	19602	477982	Endosulfan I	0.041008	9.112839	2.266667	136.7*	15 - 135	R
14.52		8903								
14.56		15311								
14.65		9716								
14.74	14.67 14.81	44145	468602	4,4'-DDE	0.094206	20.93459	4.400000	125.6*	70 - 125	R
14.86		11016								
14.97		16448								
15.07	14.99 15.13	42720	461929	Dieldrin	0.092480	20.55103	4.400000	123.3	65 - 125	
15.21		113101								
15.37		10373								
15.50		75445								
15.62		11800								
15.72	15.65 15.79	45179	408649	Endrin	0.110555	24.56769	4.400000	147.4*	60 - 135	R
15.84		382646								
15.98	15.91 16.05	44238	340626	4,4'-DDD	0.129870	28.85991	4.400000	173.2*	30 - 135	R
16.07		9850								
16.18	16.11 16.25	40217	404930	Endosulfan II	0.099316	22.07021	4.400000	132.4	35 - 140	
16.29		20375								
16.46		14688								
16.57		71015								
16.65	16.57 16.71	38156	405929	4,4'-DDT	0.093994	20.88763	4.400000	125.3	45 - 140	
16.74		12778								
16.79		47363								
16.91	16.83 16.97	44768	316985	Endrin Aldehyde	0.141231	31.38459	4.400000	188.3*	35 - 145	R
17.07		16363								
17.17		21397								
17.44		5221520								
17.51	17.42 17.56	120728	366674	Endosulfan sulfate	0.329249	73.16647	4.400000	439.0*	60 - 135	RE
17.72		15021								
17.77		11717								
17.85		10866								

CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.93		16044								
18.00		4508								
18.11	18.03 18.17	24652	182916	Methoxychlor	0.134772	29.94943	22.66667	179.7*	55 - 145	R
18.20		16906								
18.27		41467								
18.37		7453								
18.49		38954								
18.57		12205								
18.64	18.56 18.70	42716	419519	Endrin Ketone	0.101821	22.62698	4.400000	135.8*	65 - 135	R
18.71		7141								
18.82		16299								
18.92		10088								
19.00		47875								
19.07		21474								
19.19		91259								
19.24		18640								
19.36		16176								
19.43		16192								
19.55		5657								
19.69		20106								
19.82		13474								
19.97		5354								
20.02		10616								
20.20		10989								
20.29		1565								
20.37		6375								
20.41		7603								
20.48		5004								
20.54		4751								
20.62		2997								
20.69		19782								
20.79		3362								
20.89		46721								
21.03		4915								
21.12		7631								
21.26	21.18 21.32	56864	406698	Decachlorobiphenyl	0.139819	31.07087		116.5	55 - 130	
21.42		7372								

CompuChem

Lab Smp Id : 0051719-MS1 Client Smp Id : SS53-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 29-MAY-2010 17:55 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.61		2192								
21.68		6278								
21.84		11244								
21.94		5846								
22.02		11036								
22.24		487								
22.31		249								
22.43		856								
22.66		1594								
22.89		118								
22.96		775								
23.07		821								
23.16		914								
23.31		1802								
23.49		269								
23.75		870								
23.83		2671								
23.96		4948								
24.07		166								
24.31		1430								
24.54		752								
24.71		2021								
24.88		507								

d. Matrix Spike Duplicate Data

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS53-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix: (soil/water) SOIL Lab Sample ID: 0051719-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 25 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/18/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.1	
319-85-7	beta-BHC	6.1	P
319-84-6	alpha-BHC	5.3	
319-86-8	delta-BHC	7.0	
58-89-9	gamma-BHC (Lindane)	6.2	
72-54-8	4,4'-DDD	17	
72-55-9	4,4'-DDE	16	
50-29-3	4,4'-DDT	20	
60-57-1	Dieldrin	14	
959-98-8	Endosulfan I	6.8	
33213-65-9	Endosulfan II	16	
1031-07-8	Endosulfan sulfate	34	
72-20-8	Endrin	16	
7421-93-4	Endrin Aldehyde	9.8	P
76-44-8	Heptachlor	8.1	
1024-57-3	Heptachlor Epoxide	6.4	
72-43-5	Methoxychlor	170	
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	17	P
5103-74-2	gamma-Chlordane	7.5	B
5103-71-9	alpha-Chlordane	7.5	P

Data File: /chem/tracegc84.i/j100528c.b/054j0051719-MSD1.d

Date : 29-MAY-2010 18:24

Client ID: SS53-0-1MSD

Instrument: tracegc84.i

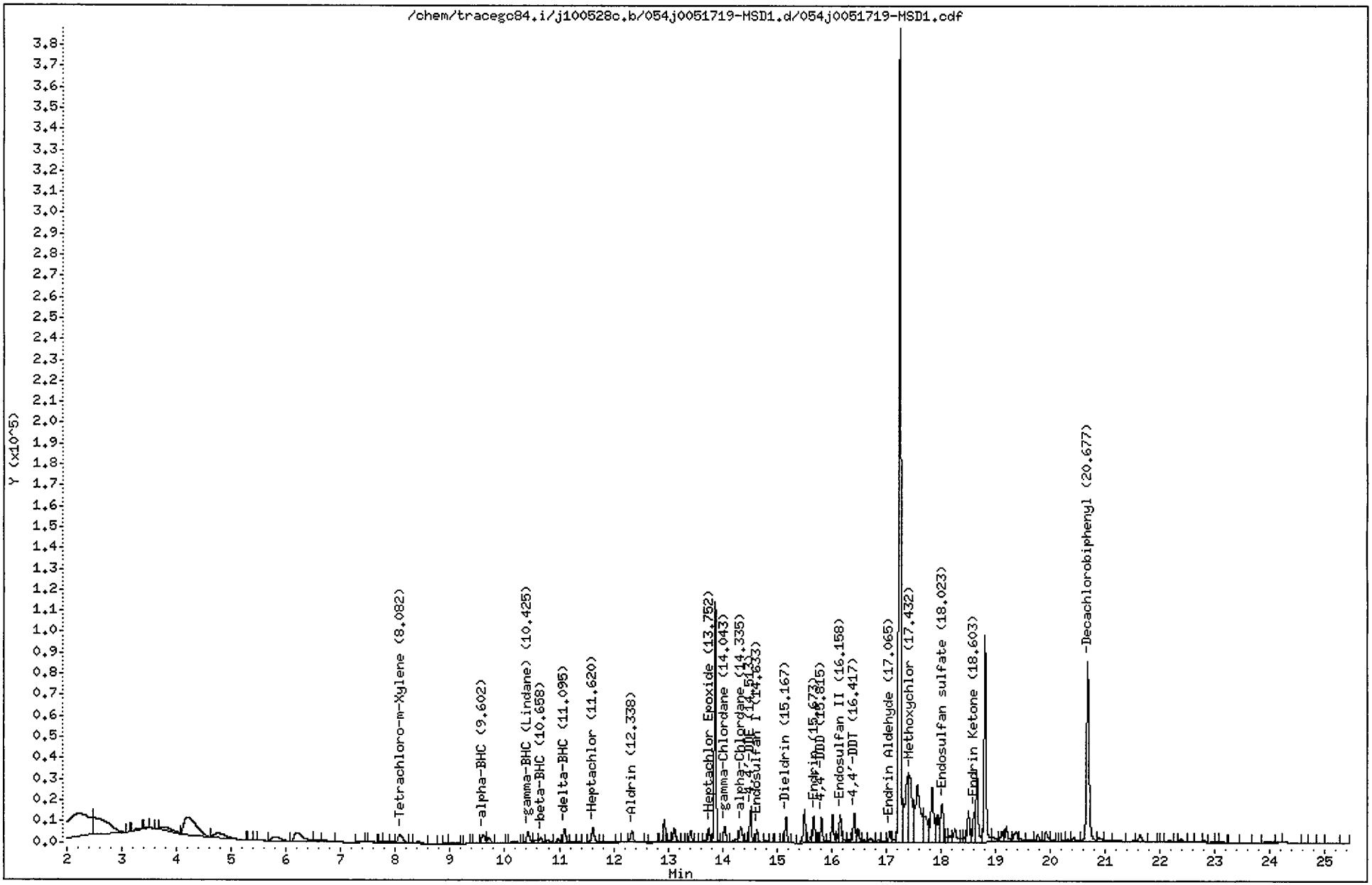
Sample Info: 0051719-MSD1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051719-MSD1 Client Smp Id : SS53-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 18:24 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58			55713								
1.73			24090								
1.82			23190								
2.22			319542								
2.51			144438								
3.14			341								
3.34			4769								
3.47			923								
3.67			899								
3.78			22336								
4.21			133223								
4.74			37397								
5.37			329								
5.51			1775								
5.80			24184								
6.20			46034								
6.53			4257								
6.69			4197								
7.37			868								
7.57			1129								
7.76			999								
7.82			2912								
7.94			2516								
8.08	8.01	8.15	26514	522758	Tetrachloro-m-Xylene	0.050720	11.27100		84.5	70 - 125	
8.42			5507								
8.84			238								
8.92			2000								
9.04			4309								
9.32			225								
9.49			1577								
9.60	9.53	9.67	18497	775960	alpha-BHC	0.023838	5.297238	2.266667	79.5	60 - 125	
9.71			11893								
9.86			2141								
10.13			3858								
10.33			278								
10.42	10.36	10.50	20411	729192	gamma-BHC (Lindane)	0.027991	6.220275	2.266667	93.3	60 - 125	
10.57			7243								

6/3/10

CompuChem

Lab Smp Id : 0051719-MSD1 Client Smp Id : SS53-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 18:24 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.66	10.59 10.73	8270	300532	beta-BHC	0.027518	6.115072	1.134667	91.7	60 - 125	
10.79		5419								
10.98		5221								
11.10	11.02 11.16	22724	689518	delta-BHC	0.032956	7.323640	2.266667	109.9	55 - 130	
11.24		2153								
11.36		1848								
11.46		353								
11.62	11.55 11.69	25305	695465	Heptachlor	0.036384	8.085398	2.266667	121.3	50 - 140	
11.77		422								
11.90		3397								
12.09		767								
12.20		1077								
12.34	12.27 12.41	18507	636570	Aldrin	0.029073	6.460667	2.266667	96.9	45 - 140	
12.59		801								
12.73		1564								
12.93		27043								
13.04		2789								
13.12		23570								
13.29		1596								
13.34		1350								
13.42		18044								
13.51		1685								
13.60		862								
13.68		2144								
13.75	13.68 13.82	17887	593700	Heptachlor Epoxide	0.030128	6.695114	2.266667	100.4	65 - 130	
13.87		257736								
14.04	13.97 14.11	24763	594875	gamma-Chlordane	0.041627	9.250496	2.266667	138.8*	65 - 125	R
14.29		7865								
14.34	14.27 14.41	27871	516712	alpha-Chlordane	0.053939	11.98646	2.266667	179.8*	65 - 120	RM2
14.44		1670								
14.51	14.45 14.59	37467	523741	4,4'-DDE	0.071537	15.89716	4.400000	95.4	70 - 125	
14.63	14.57 14.71	16658	548162	Endosulfan I	0.030389	6.753066	2.266667	101.3	15 - 135	
14.80		2373								
14.87		370								
15.01		572								
15.07		200								
15.17	15.10 15.24	32033	515556	Dieldrin	0.062133	13.80731	4.400000	82.8	65 - 125	M2

6/3/10

CompuChem

Lab Smp Id : 0051719-MSD1 Client Smp Id : SS53-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 18:24 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.50		42644								
15.62		5542								
15.67	15.61 15.75	34367	463071	Endrin	0.074215	16.49230	4.400000	99.0	60 - 135	M
15.74		1277								
15.82	15.75 15.89	30704	393458	4,4'-DDD	0.078036	17.34142	4.400000	104.0	30 - 135	
16.02		37056								
16.13		8875								
16.16	16.09 16.23	38309	450326	Endosulfan II	0.085069	18.90432	4.400000	113.4	35 - 140	M
16.21		3693								
16.31		4192								
16.42	16.35 16.49	41032	454781	4,4'-DDT	0.090221	20.04920	4.400000	120.3	45 - 140	
16.49		17084								
16.61		5008								
16.71		10860								
16.86		4832								
16.93		4478								
17.06	17.00 17.14	15439	348470	Endrin Aldehyde	0.044305	9.845579	4.400000	59.1	35 - 145	
17.15		3629								
17.25		1017414								
17.38		139595								
17.43	17.37 17.51	160706	194359	Methoxychlor	0.826846	183.7436	22.66667	1102.5*	55 - 145	RE
17.57		175851								
17.70		68960								
17.84		101673								
17.94		41398								
18.02	17.93 18.07	69353	392055	Endosulfan sulfate	0.176894	39.30968	4.400000	235.9*	60 - 135	REM
18.06		3838								
18.10		6647								
18.16		12038								
18.26		25801								
18.37		6002								
18.43		5691								
18.50		44350								
18.60	18.53 18.67	35667	457258	Endrin Ketone	0.078002	17.33378	4.400000	104.0	65 - 135	
18.66		100077								
18.81		251387								
18.95		13541								

CompuChem

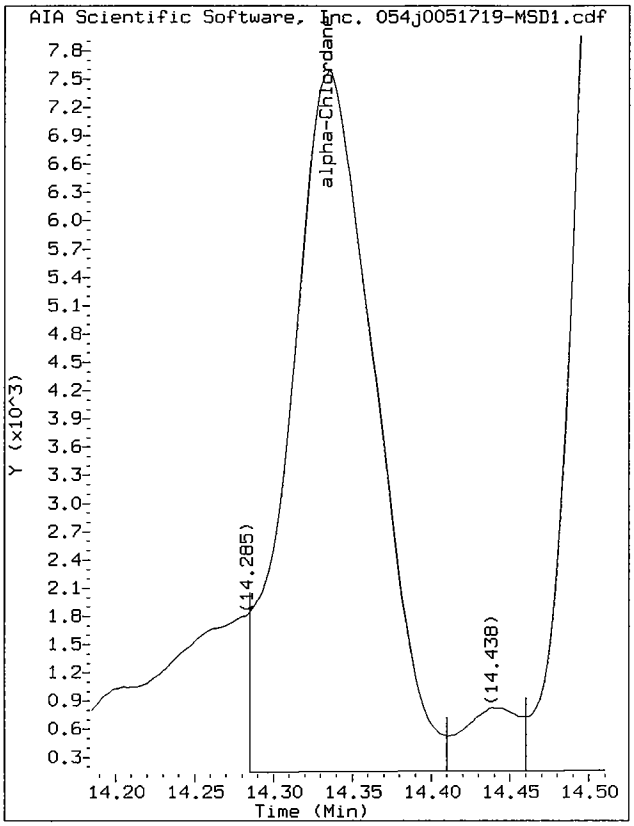
Lab Smp Id : 0051719-MSD1 Client Smp Id : SS53-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 18:24 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c.b/8081A_clpestv6.m
Misc. Info : SS53-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

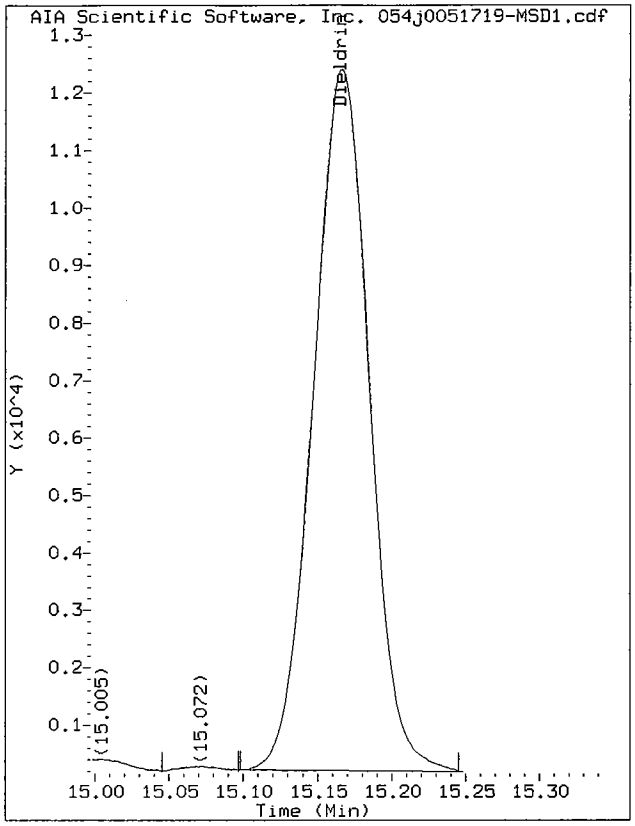
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.11		17578								
19.20		25763								
19.38		24273								
19.46		6344								
19.61		5572								
19.77		12760								
19.92		19268								
20.02		4617								
20.12		1358								
20.19		1389								
20.26		2661								
20.32		4379								
20.43		10453								
20.68	20.63 20.77	277695	408350	Decachlorobiphenyl	0.680039	151.1198		566.7*	55 - 130	R
20.89		9753								
21.05		5492								
21.21		6449								
21.51		2196								
21.64		13462								
21.85		461								
22.00		217								
22.18		2787								
22.27		284								
22.38		3714								
22.55		576								
22.82		2996								
22.93		784								
23.03		382								
23.13		1659								
23.39		1292								
23.84		1071								
23.94		4191								
24.17		694								
24.65		1548								
24.78		1631								
24.92		552								
25.33		770								

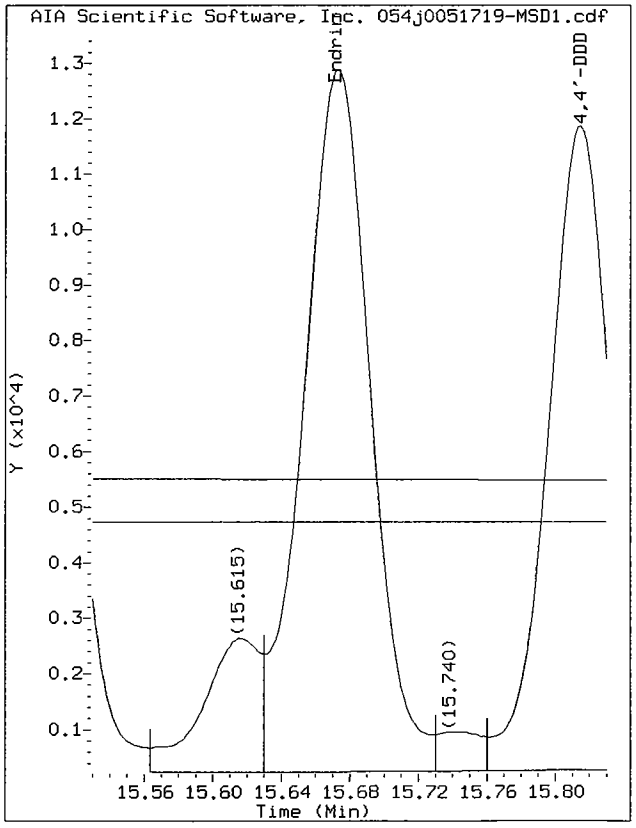
Manually Integrated Peaks



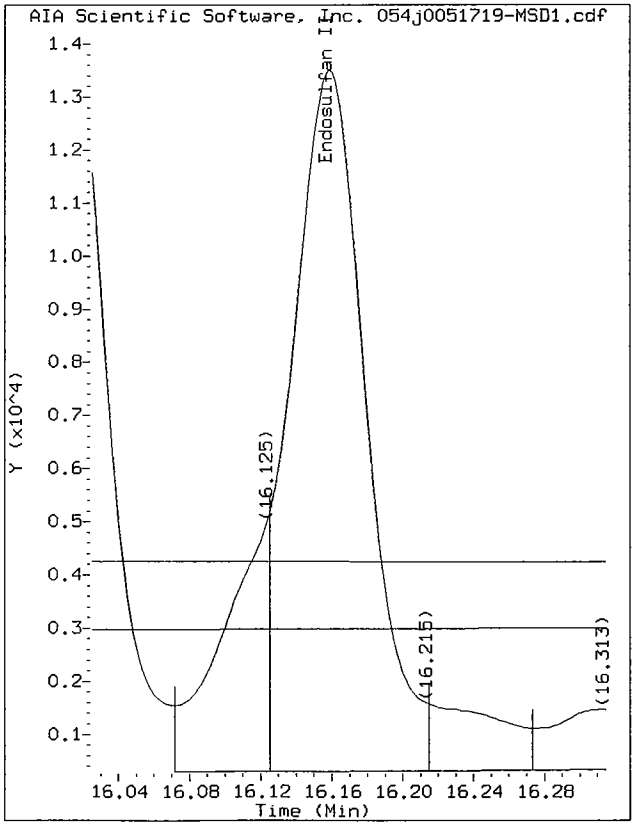
Start: 14.29 Stop: 14.41



Start: 15.10 Stop: 15.24

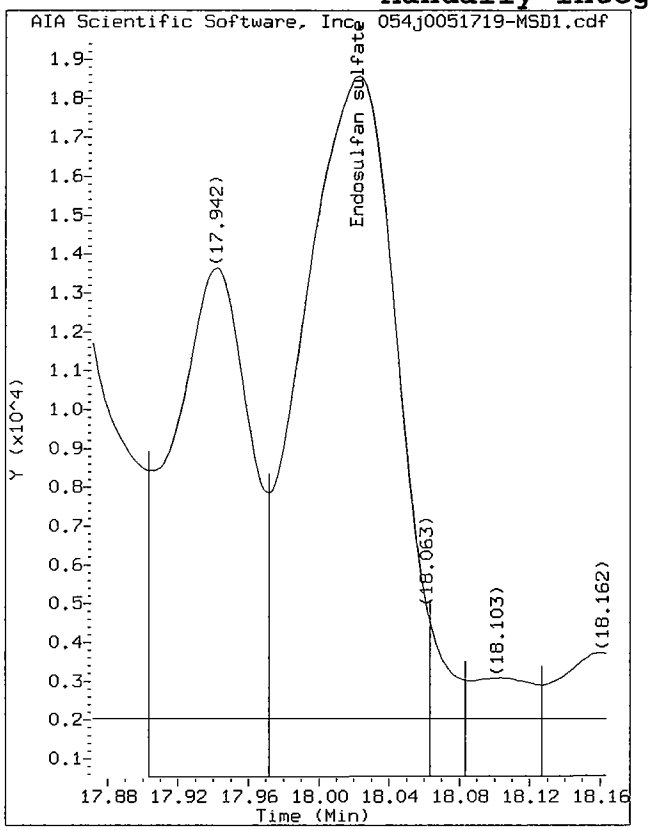


Start: 15.63 Stop: 15.73

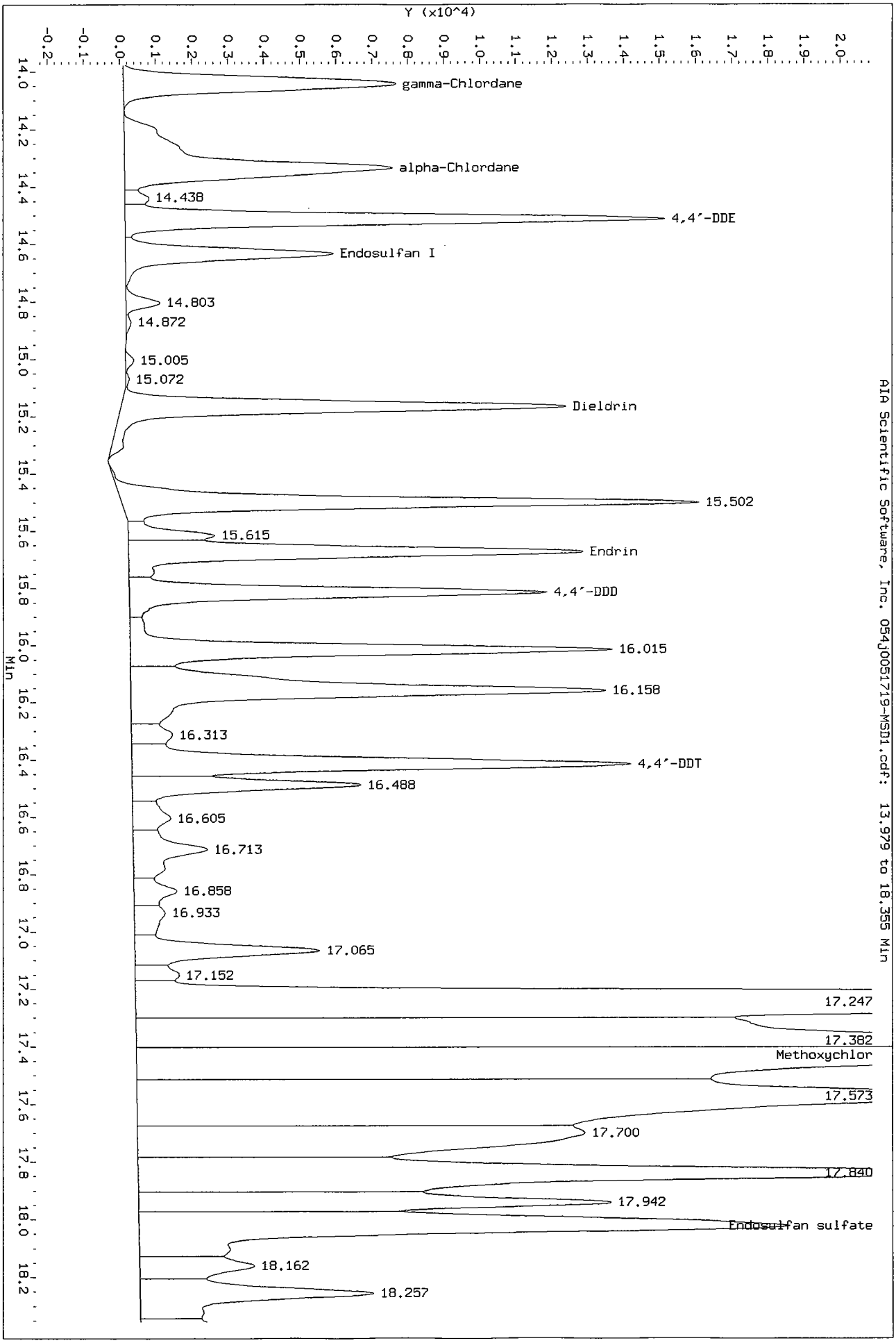


Start: 16.13 Stop: 16.21

Manually Integrated Peaks



Start: 17.97 Stop: 18.06


Data File: /chem/tracegc84.i/j100528c.b/054j0051719-MSD1.d/054j0051719-MSD1.cdf
Injection Date: 29-MAY-2010 18:24
Instrument: tracegc84.i
Client Sample ID: SS53-0-1MSD
Y (x10^4)
gamma-Chlordane
alpha-Chlordane
14.438
4,4'-DDE
Endosulfan I
14.803
14.872
15.005
15.072
Dieldrin
15.502
15.615
Endrin
4,4'-DDD
16.015
16.158
16.313
4,4'-DDT
16.488
16.605
16.713
16.858
16.933
17.065
17.152
17.247
17.382
Methoxychlor
17.573
17.700
17.840
17.942
Endosulfan sulfate
18.162
18.257
AIA Scientific Software, Inc. 054j0051719-MSD1.cdf: 13.979 to 18.355 Min
Min

Data File: /chem/tracegc84.i/j100528c_2C.b/054j0051719-MSD1.d

Date : 29-MAY-2010 18:24

Client ID: SS53-0-1MSD

Instrument: tracegc84.i

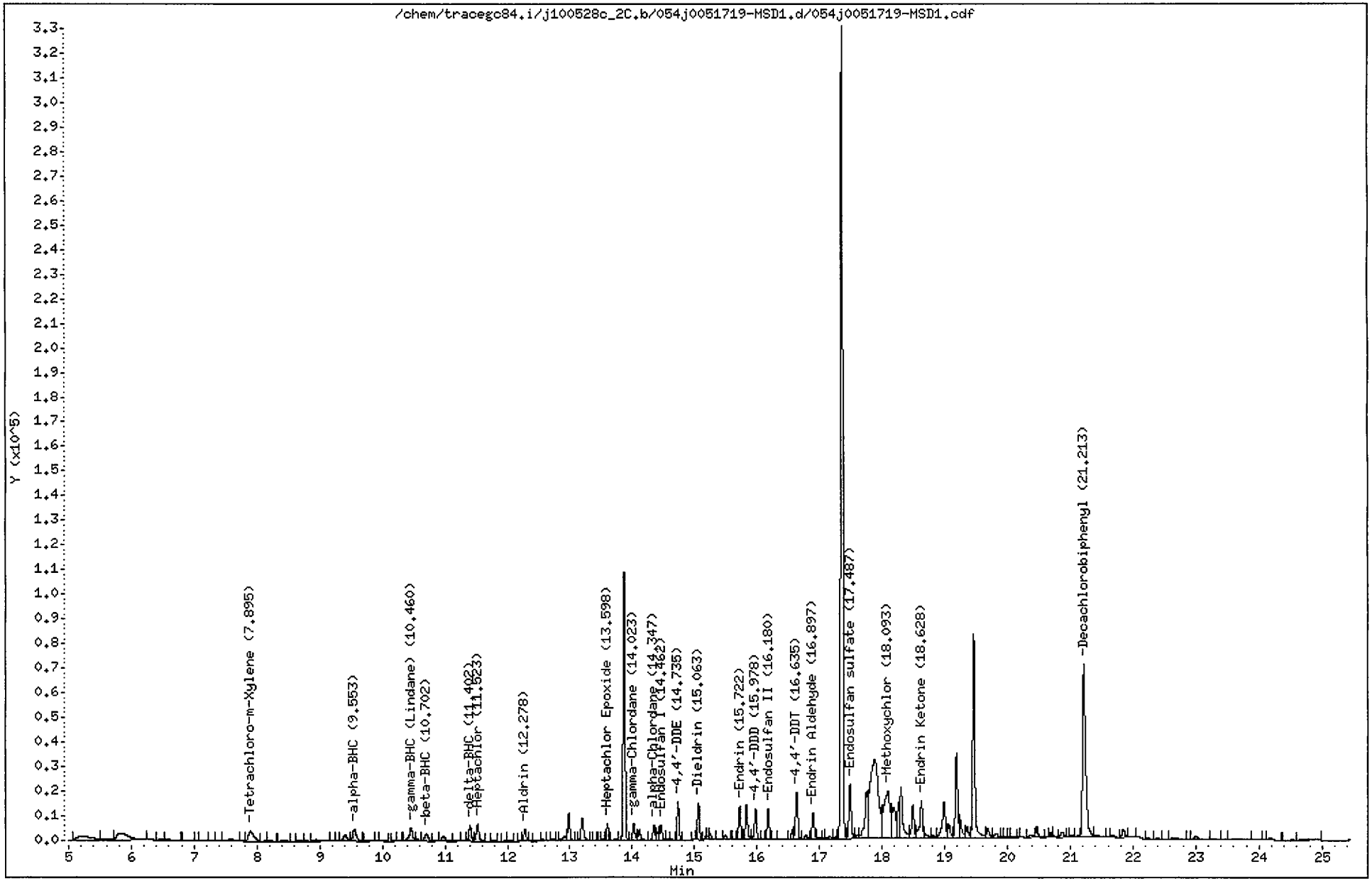
Sample Info: 0051719-MSD1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051719-MSD1 Client Smp Id : SS53-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 18:24 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.02			247168								
2.07			394111								
2.75			19354								
2.83			51496								
3.02			40568								
3.07			99421								
3.55			53202								
3.76			226568								
4.27			70481								
5.22			25407								
5.58			4705								
5.82			35208								
6.46			785								
6.58			1500								
6.92			901								
7.16			357								
7.40			633								
7.58			6585								
7.79			410								
7.90	7.82	7.96	23692	416798	Tetrachloro-m-Xylene	0.056841	12.63123		94.7	70 - 125	
8.14			282								
8.21			1223								
8.40			1925								
8.68			683								
8.78			524								
8.94			4040								
9.21			313								
9.28			653								
9.40			10530								
9.55	9.48	9.62	17697	607758	alpha-BHC	0.029117	6.470417	2.266667	97.1	60 - 125	
9.81			752								
10.00			807								
10.20			325								
10.28			599								
10.46	10.39	10.53	21354	585542	gamma-BHC (Lindane)	0.036469	8.104166	2.266667	121.6	60 - 125	
10.57			1716								
10.70	10.63	10.77	11378	248610	beta-BHC	0.045766	10.17032	1.134667	152.6*	60 - 125	R

6/3/10

CompuChem

Lab Smp Id : 0051719-MSD1 Client Smp Id : SS53-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 18:24 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.83		334								
10.97		7630								
11.18		1996								
11.30		1644								
11.40	11.33 11.47	17398	551235	delta-BHC	0.031560	7.013343	2.266667	105.2	55 - 130	
11.52	11.45 11.59	21506	579497	Heptachlor	0.037111	8.246995	2.266667	123.7	50 - 140	
11.78		1250								
11.87		112								
11.97		445								
12.03		1029								
12.19		335								
12.28	12.21 12.35	12484	542192	Aldrin	0.023025	5.116674	2.266667	76.8	45 - 140	
12.36		750								
12.47		1617								
12.56		2062								
12.66		948								
12.73		1650								
12.80		604								
12.91		6002								
12.98		25559								
13.20		27502								
13.34		341								
13.40		450								
13.47		209								
13.52		974								
13.60	13.53 13.67	14697	511912	Heptachlor Epoxide	0.028708	6.379562	2.266667	95.7	65 - 130	
13.72		1450								
13.87		233945								
14.02	13.95 14.09	17384	513150	gamma-Chlordane	0.033877	7.528230	2.266667	112.9	65 - 125	
14.12		11981								
14.35	14.28 14.42	15105	446248	alpha-Chlordane	0.033849	7.521984	2.266667	112.8	65 - 120	
14.40		6989								
14.46	14.39 14.53	15148	477982	Endosulfan I	0.031692	7.042564	2.266667	105.6	15 - 135	
14.56		634								
14.63		677								
14.74	14.67 14.81	32937	468602	4,4'-DDE	0.070288	15.61949	4.400000	93.7	70 - 125	
14.87		956								

CompuChem

Lab Smp Id : 0051719-MSD1 Client Smp Id : SS53-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 18:24 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.00		445								
15.06	14.99 15.13	32860	461929	Dieldrin	0.071134	15.80763	4.400000	94.8	65 - 125	
15.18		2622								
15.21		2647								
15.25		6588								
15.37		806								
15.49		4513								
15.63		203								
15.72	15.65 15.79	31762	408649	Endrin	0.077722	17.27156	4.400000	103.6	60 - 135	
15.83		34780								
15.98	15.91 16.05	29825	340626	4,4'-DDD	0.087559	19.45762	4.400000	116.7	30 - 135	
16.11		888								
16.18	16.11 16.25	28689	404930	Endosulfan II	0.070849	15.74429	4.400000	94.5	35 - 140	
16.28		471								
16.34		1285								
16.57		8702								
16.64	16.57 16.71	49521	405929	4,4'-DDT	0.121992	27.10930	4.400000	162.7*	45 - 140	R
16.78		4756								
16.90	16.83 16.97	26285	316985	Endrin Aldehyde	0.082919	18.42639	4.400000	110.6	35 - 145	
16.97		1611								
17.07		632								
17.16		3547								
17.26		2449								
17.36		807765								
17.49	17.42 17.56	56821	366674	Endosulfan sulfate	0.154961	34.43570	4.400000	206.6*	60 - 135	R
17.60		4265								
17.75		65248								
17.88		301281								
18.09	18.03 18.17	138079	182916	Methoxychlor	0.754872	167.7494	22.66667	1006.5*	55 - 145	R
18.19		46723								
18.27		33486								
18.30		66466								
18.49		35154								
18.63	18.56 18.70	50554	419519	Endrin Ketone	0.120502	26.77830	4.400000	160.7*	65 - 135	R
18.70		5495								
18.82		4735								
18.99		52115								

CompuChem

Lab Smp Id : 0051719-MSD1 Client Smp Id : SS53-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 18:24 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.07		15788								
19.19		83902								
19.25		21556								
19.35		13056								
19.46		201957								
19.69		11888								
19.82		6207								
19.92		1477								
19.96		1450								
20.02		938								
20.08		1114								
20.16		119								
20.23		772								
20.36		3394								
20.46		11176								
20.62		331								
20.68		3925								
20.73		2026								
20.87		6764								
21.03		1918								
21.12		1467								
21.21	21.18 21.32	233043	406698	Decachlorobiphenyl	0.573011	127.3357		477.5*	55 - 130	R
21.42		5072								
21.61		380								
21.68		2002								
21.85		8973								
21.95		931								
22.24		662								
22.40		692								
22.51		427								
22.67		3785								
23.00		5802								
23.30		1049								
23.75		2240								
23.98		412								
24.17		2752								
24.54		1680								

CompuChem

Lab Smp Id : 0051719-MSD1 Client Smp Id : SS53-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 18:24 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528c_2C.b/8081A_clpest2v6.m
Misc. Info : SS53-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 25(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.73		4247								

CompuChem

A Division Of

Liberty Analytical Corp.

6/10/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S. WorkOrder: 1005129

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005129

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005129

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005129-01	SS55-00-01	Soil	05/11/2010 07:40	05/13/2010 09:30
1005129-02	SB55-00-2.5-3	Soil	05/11/2010 07:50	05/13/2010 09:30
1005129-03	SS54-0-1	Soil	05/11/2010 08:40	05/13/2010 09:30
1005129-04	SB54-4-5	Soil	05/11/2010 08:50	05/13/2010 09:30
1005129-05	SS53-0-1	Soil	05/11/2010 09:50	05/13/2010 09:30
1005129-06	SB53-7-8	Soil	05/11/2010 09:55	05/13/2010 09:30
1005129-07	SS80-0-1	Soil	05/12/2010 07:55	05/13/2010 09:30
1005129-08	SB80-3-4	Soil	05/12/2010 08:00	05/13/2010 09:30
1005129-09	SS56-0-1	Soil	05/11/2010 11:25	05/13/2010 09:30
1005129-10	SB56-3-4	Soil	05/11/2010 11:30	05/13/2010 09:30
1005129-11	SS58-0-1	Soil	05/12/2010 10:15	05/13/2010 09:30
1005129-12	SS52-0-1	Soil	05/11/2010 15:15	05/13/2010 09:30
1005129-13	SS57-0-1	Soil	05/12/2010 12:05	05/13/2010 09:30
1005129-14	SS60-00-01	Soil	05/12/2010 15:55	05/14/2010 09:20
1005129-15	SS59-00-01	Soil	05/12/2010 16:40	05/14/2010 09:20
1005129-16	SB59-9-10	Soil	05/12/2010 16:55	05/14/2010 09:20
1005129-17	SS85-0-1	Soil	05/13/2010 07:40	05/14/2010 09:20
1005129-18	SS89-0-1	Soil	05/13/2010 08:25	05/14/2010 09:20
1005129-19	SB89-6.5-7.5	Soil	05/13/2010 08:45	05/14/2010 09:20
1005129-20	SS78-0-1	Soil	05/13/2010 09:30	05/14/2010 09:20

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC/MS by SW-846

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

A. SDG Narrative

B. Tabulated target compound results (Form I)
Tentatively identified compounds (Form I, TIC)
In order by sample.

C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low, Medium, or High)

D. Spike results MS / MSD / LCS (Form III)

E. Blank data (Form IV)
Tabulated blank results (Form I)
Tentatively identified compounds (Form I, TIC)

F. Internal standard area response and retention time data (Form VIII)

LAB CODE : LIBRTY

METHOD: 8270C

SDG # : 1005129

A. SDG Narrative

CompuChem
A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005129
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SS55-00-01, SB55-00-2.5-3, SS54-0-1, SB54-4-5, SS53-0-1, SB53-7-8, SS80-0-1, SB80-3-4, SS56-0-1, SB56-3-4, SS58-0-1, SS52-0-1, SS57-0-1, SS60-00-01, SS59-00-01, SB59-9-10, SS85-0-1, SS89-0-1, SB89-6.5-7.5, SS78-0-1.

The 20 soil samples listed above were received intact, refrigerated at 0.2-4.1°C, with proper documentation, in sealed shipping containers, on May 13-14, 2010. The samples were scheduled for the requested analyses of the semivolatile fraction. SW-846, 3rd Edition, Update 3, Sonication extraction (Method 3550B), Method 8270C and Selected Ion Monitoring (SIM) were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. The percent moisture values of these soil samples ranged from 5-34. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for SDG # 1005129 are included in the sample data sections. Extraction and analysis holding time requirements were met for all of these samples.

Many semivolatile project analytes were identified above the reporting limit in sample SS89-0-1. Manual quantitations were performed on one or more of the process files associated with this SDG. Please see the manual integration summary page following the narrative for specific information regarding manual integreations for each sample and analyte. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

In the initial analysis of SB55-00-2.5-3 and SS54-0-1, the response of multiple internal standards failed quality control criteria. The samples were reinjected and the internal standards again failed response criteria. We have attributed the failing internal standard responses to the particular matrix of the samples. Therefore we have reported both analyses of SB55-00-2.5-3 and SS54-0-1. SS53-0-1 was used as the original to prepare the duplicate matrix spikes (as requested). In the analysis of the original, the response of multiple internal standards failed quality control criteria. The analyses of the duplicate matrix spikes also failed recovery criteria for these internal standards. We have attributed the failing internals standard to the particular matrix of the original. In the initial analysis of SB59-9-10, the recovery of the surrogate, 2-fluorobiphenyl, failed DoD quality control criteria. The recovery met our in-house limits. We are reporting this sample as is.

Mass assignments were verified by the injections of perfluorotributylamine (PFTBA). Overall quality control criteria were met for all initial and continuing calibration standards associated to this SDG. The associated method blank met all quality control criteria. The associated duplicate matrix spikes met all advisory accuracy and precision criteria. The associated Laboratory Control Sample (LCS) met all accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Rebecca K Mead

Rebecca K. Mead, Ph.D.
Laboratory Director
June 10, 2010

Manual Integrations												
SDG: 1005129												
				Samples								
	-03	-03RE	-05	-01	-07	-09	-10	-11	-12	-18	-20	-08
Compound												
Naphthalene												
2-Methylnaphthalene												
1-Methylnaphthalene												
Acenaphthylene												
Acenaphthene												
Fluorene												
Phenanthrene												
Anthracene												
Fluoranthene												
Pyrene												
Benzo(a)anthracene												
Chrysene									✓			
Benzo(b)fluoranthene						✓			✓	✓		
Benzo(k)fluoranthene			✓	✓	✓	✓			✓	✓	✓	
Benzo(a)pyrene						✓				X		
Indeno(1,2,3-cd)pyrene			✓	✓	✓	✓						
Dibenzo(a,h)anthracene												
Benzo(g,h,i)perylene				✓		✓						
1,4-Dichlorobenzene-d4												
Naphthalene-d8							✓	✓				✓
Acenaphthene-d10	✓	✓										
Phenanthrene-d10												
Chrysene-d12												
Perylene-d12												
2-Fluorophenol												
Phenol-d5												
Nitrobenzene-d5												
2,4,6-Tribromophenol												
2-Fluorobiphenyl												
Terphenyl-d14												
"X" Denotes a manual integration for the compound												

GC and GC/MS Column and Trap Specifications Table

SDG #:	1005129

COLUMNS*

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
√	Restek	clpest	0.32	0.5	30
√	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
√	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS*

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semi-volatiles, pesticides, and Aroclors by the SOM01.2 SOW. Please see the SDG Narratives(s) for the specific fraction(s) relative to this SDG.

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

Revision 11 (08-17-2007)

B. Form I and Form I - TIC

Organic Analysis Data Sheet (OADS) and Tentatively Identified Compounds (TICs)

- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB53-7-8

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-06
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-06JC66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	ND	U
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB54-4-5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-04J2C66
Analyst: 2743

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	ND	U
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.69	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB55-00-2.5-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-02A66
Analyst: 2650

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB55-00-2.5-3RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-02JA66
Analyst: 2730

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB56-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-10
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-10JC66
Analyst: 2743

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	ND	U
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.69	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB59-9-10

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-16
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-16C66
Analyst: 2743

% Moisture: 22 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.92	11	ND	U
91-57-6	2-Methylnaphthalene	0.88	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.77	11	ND	U
86-73-7	Fluorene	0.58	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.56	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.73	11	ND	U
56-55-3	Benzo(a)anthracene	0.73	11	ND	U
218-01-9	Chrysene	0.81	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.73	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.56	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.47	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.43	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB80-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-08
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-08JC66
Analyst: 2743

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB89-6.5-7.5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-19
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-19JA66
Analyst: 2730

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	ND	U
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	ND	U
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	ND	U
120-12-7	Anthracene	0.48	9.2	ND	U
206-44-0	Fluoranthene	1.5	9.2	ND	U
129-00-0	Pyrene	0.63	9.2	ND	U
56-55-3	Benzo(a)anthracene	0.63	9.2	ND	U
218-01-9	Chrysene	0.70	9.2	ND	U
205-99-2	Benzo(b)fluoranthene	0.63	9.2	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.2	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.2	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS52-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-12
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-12C66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	0.92	J
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	0.80	J
205-99-2	Benzo(b)fluoranthene	0.71	10	1.3	JX
207-08-9	Benzo(k)fluoranthene	0.54	10	1.2	JX
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS53-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-05
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-05JA66
Analyst: 2730

% Moisture: 25 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.96	11	ND	U
91-57-6	2-Methylnaphthalene	0.91	11	ND	U
208-96-8	Acenaphthylene	0.71	11	ND	U
83-32-9	Acenaphthene	0.80	11	ND	U
86-73-7	Fluorene	0.60	11	ND	U
85-01-8	Phenanthrene	1.8	11	ND	U
120-12-7	Anthracene	0.58	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.76	11	0.92	J
56-55-3	Benzo(a)anthracene	0.76	11	ND	U
218-01-9	Chrysene	0.84	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.76	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.58	11	0.80	J
50-32-8	Benzo(a)pyrene	0.51	11	0.53	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.49	11	0.56	J
53-70-3	Dibenzo(a,h)anthracene	0.44	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.51	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS54-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-03A66
Analyst: 2650

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	0.79	J
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	0.77	J
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS54-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-03JA66
Analyst: 2730

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS55-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-01J2C66
Analyst: 2743

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	ND	U
91-57-6	2-Methylnaphthalene	1.0	13	ND	U
208-96-8	Acenaphthylene	0.81	13	ND	U
83-32-9	Acenaphthene	0.91	13	ND	U
86-73-7	Fluorene	0.68	13	ND	U
85-01-8	Phenanthrene	2.0	13	2.1	J
120-12-7	Anthracene	0.66	13	ND	U
206-44-0	Fluoranthene	2.0	13	ND	U
129-00-0	Pyrene	0.86	13	1.4	J
56-55-3	Benzo(a)anthracene	0.86	13	0.86	J
218-01-9	Chrysene	0.96	13	1.3	J
205-99-2	Benzo(b)fluoranthene	0.86	13	1.3	J
207-08-9	Benzo(k)fluoranthene	0.66	13	1.3	J
50-32-8	Benzo(a)pyrene	0.58	13	0.73	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	0.98	J
53-70-3	Dibenzo(a,h)anthracene	0.51	13	ND	U
191-24-2	Benzo(g,h,i)perylene	0.58	13	0.74	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS56-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-09
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-09JC66
Analyst: 2743

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	0.71	J
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	1.1	J
205-99-2	Benzo(b)fluoranthene	0.69	10	1.1	J
207-08-9	Benzo(k)fluoranthene	0.53	10	0.63	J
50-32-8	Benzo(a)pyrene	0.47	10	0.48	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	0.46	J
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	0.51	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS57-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-13
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-13C66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	ND	U
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS58-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-11
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-11JC66
Analyst: 2743

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	ND	U
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS59-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-15
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-15C66
Analyst: 2743

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	0.98	J
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS60-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-14
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-14C66
Analyst: 2743

% Moisture: 9 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.79	9.1	ND	U
91-57-6	2-Methylnaphthalene	0.75	9.1	ND	U
208-96-8	Acenaphthylene	0.59	9.1	ND	U
83-32-9	Acenaphthene	0.66	9.1	ND	U
86-73-7	Fluorene	0.49	9.1	ND	U
85-01-8	Phenanthrene	1.4	9.1	ND	U
120-12-7	Anthracene	0.48	9.1	ND	U
206-44-0	Fluoranthene	1.5	9.1	ND	U
129-00-0	Pyrene	0.62	9.1	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.1	ND	U
218-01-9	Chrysene	0.70	9.1	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.1	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.1	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.1	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.1	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.1	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.1	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS78-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-20
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-20C66
Analyst: 2743

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	ND	U
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	1.6	J
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	6.0	J
129-00-0	Pyrene	0.61	8.9	4.9	J
56-55-3	Benzo(a)anthracene	0.61	8.9	2.7	J
218-01-9	Chrysene	0.68	8.9	3.9	J
205-99-2	Benzo(b)fluoranthene	0.61	8.9	4.2	J
207-08-9	Benzo(k)fluoranthene	0.47	8.9	4.4	J
50-32-8	Benzo(a)pyrene	0.41	8.9	3.6	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	3.6	J
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	1.0	J
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	3.2	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS80-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-07
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-07JC66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	2.0	J
129-00-0	Pyrene	0.71	10	1.9	J
56-55-3	Benzo(a)anthracene	0.71	10	0.79	J
218-01-9	Chrysene	0.79	10	0.98	J
205-99-2	Benzo(b)fluoranthene	0.71	10	1.4	J
207-08-9	Benzo(k)fluoranthene	0.54	10	0.96	J
50-32-8	Benzo(a)pyrene	0.48	10	0.81	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	1.0	J
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	0.66	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS85-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-17
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-17C66
Analyst: 2743

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	ND	U
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	ND	U
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	ND	U
120-12-7	Anthracene	0.48	9.2	ND	U
206-44-0	Fluoranthene	1.5	9.2	ND	U
129-00-0	Pyrene	0.63	9.2	ND	U
56-55-3	Benzo(a)anthracene	0.63	9.2	ND	U
218-01-9	Chrysene	0.70	9.2	ND	U
205-99-2	Benzo(b)fluoranthene	0.63	9.2	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.2	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.2	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS89-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-18
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-18C66
Analyst: 2743

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	13	
120-12-7	Anthracene	0.47	9.0	1.6	J
206-44-0	Fluoranthene	1.4	9.0	69	
129-00-0	Pyrene	0.62	9.0	52	
56-55-3	Benzo(a)anthracene	0.62	9.0	22	
218-01-9	Chrysene	0.69	9.0	32	
205-99-2	Benzo(b)fluoranthene	0.62	9.0	36	
207-08-9	Benzo(k)fluoranthene	0.47	9.0	32	
50-32-8	Benzo(a)pyrene	0.42	9.0	27	
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	23	
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	5.8	J
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	19	

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SBELCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051720-BS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051720-BS1JA66
Analyst: 2730

% Moisture: 0 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	8.5	
91-57-6	2-Methylnaphthalene	0.68	8.3	9.8	
208-96-8	Acenaphthylene	0.53	8.3	9.1	
83-32-9	Acenaphthene	0.60	8.3	8.9	
86-73-7	Fluorene	0.45	8.3	9.1	
85-01-8	Phenanthrene	1.3	8.3	9.6	
120-12-7	Anthracene	0.43	8.3	9.2	
206-44-0	Fluoranthene	1.3	8.3	11	
129-00-0	Pyrene	0.57	8.3	10	
56-55-3	Benzo(a)anthracene	0.57	8.3	12	
218-01-9	Chrysene	0.63	8.3	12	
205-99-2	Benzo(b)fluoranthene	0.57	8.3	11	
207-08-9	Benzo(k)fluoranthene	0.43	8.3	11	
50-32-8	Benzo(a)pyrene	0.38	8.3	10	
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	12	
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	12	
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	11	

ND = Not Detected
Q = Qualifier

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS53-0-1MS

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 0051720-MS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 0051720-MS1JA66
Analyst: 2730

% Moisture: 25 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.96	11	11	J
91-57-6	2-Methylnaphthalene	0.91	11	13	
208-96-8	Acenaphthylene	0.71	11	16	
83-32-9	Acenaphthene	0.80	11	15	
86-73-7	Fluorene	0.60	11	15	
85-01-8	Phenanthrene	1.8	11	16	
120-12-7	Anthracene	0.58	11	17	
206-44-0	Fluoranthene	1.8	11	19	
129-00-0	Pyrene	0.76	11	18	
56-55-3	Benzo(a)anthracene	0.76	11	17	
218-01-9	Chrysene	0.84	11	16	
205-99-2	Benzo(b)fluoranthene	0.76	11	18	
207-08-9	Benzo(k)fluoranthene	0.58	11	17	
50-32-8	Benzo(a)pyrene	0.51	11	15	
193-39-5	Indeno(1,2,3-cd)pyrene	0.49	11	14	
53-70-3	Dibenzo(a,h)anthracene	0.44	11	12	
191-24-2	Benzo(g,h,i)perylene	0.51	11	10	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS53-0-1MSD

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 0051720-MSD1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 0051720-MSD1JA66
Analyst: 2730

% Moisture: 25 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.96	11	12	
91-57-6	2-Methylnaphthalene	0.91	11	15	
208-96-8	Acenaphthylene	0.71	11	17	
83-32-9	Acenaphthene	0.80	11	16	
86-73-7	Fluorene	0.60	11	15	
85-01-8	Phenanthrene	1.8	11	16	
120-12-7	Anthracene	0.58	11	16	
206-44-0	Fluoranthene	1.8	11	20	
129-00-0	Pyrene	0.76	11	19	
56-55-3	Benzo(a)anthracene	0.76	11	18	
218-01-9	Chrysene	0.84	11	16	
205-99-2	Benzo(b)fluoranthene	0.76	11	17	
207-08-9	Benzo(k)fluoranthene	0.58	11	20	
50-32-8	Benzo(a)pyrene	0.51	11	16	
193-39-5	Indeno(1,2,3-cd)pyrene	0.49	11	17	
53-70-3	Dibenzo(a,h)anthracene	0.44	11	14	
191-24-2	Benzo(g,h,i)perylene	0.51	11	13	

ND = Not Detected
Q = Qualifier

FORM I SV-1

C. Form II

Surrogate spike analysis

- By level (low, medium, high) -

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SB55-00-2.5-3	66	56	122						0
02	SS54-0-1	68	73	111						0
03	SBLKBE	63	61	98						0
04	SBELCS	59	61	73						0
05	SS53-0-1	57	62	79						0
06	SS53-0-1MS	60	70	87						0
07	SS53-0-1MSD	82	78	92						0
08	SB55-00-2.5-3RE	61	53	80						0
09	SS54-0-1RE	60	97	77						0
10	SS55-00-01	66	65	91						0
11	SB54-4-5	63	48	85						0
12	SB53-7-8	52	46	81						0
13	SS80-0-1	65	64	93						0
14	SB80-3-4	72	45	95						0
15	SS56-0-1	60	51	85						0
16	SB56-3-4	58	45	99						0
17	SS58-0-1	72	64	95						0
18	SS52-0-1	75	51	88						0
19	SS57-0-1	67	70	99						0
20	SS60-00-01	67	62	89						0
21	SS59-00-01	72	70	95						0
22	SB59-9-10	54	39*	93						1
23	SS85-0-1	61	46	94						0
24	SS89-0-1	72	48	98						0
25	SS78-0-1	75	76	93						0
26	SB89-6.5-7.5	54	45	72						0
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results
- By level (low, medium, high) -
Laboratory Control Sample(s)

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix Spike - Sample No.: SS53-0-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	22.22	0	10.55	47	40-105
2-Methylnaphthalene	22.22	0	13.43	60	45-105
Acenaphthylene	22.22	0	15.68	71	50-105
Acenaphthene	22.22	0	14.71	66	45-110
Fluorene	22.22	0	14.8	67	50-110
Phenanthrene	22.22	0	16.4	74	50-110
Anthracene	22.22	0	16.58	75	55-105
Fluoranthene	22.22	0	19.4	87	55-115
Pyrene	22.22	0.924	18	77	45-125
Benzo(a)anthracene	22.22	0	17.47	79	50-110
Chrysene	22.22	0	16.06	72	55-110
Benzo(b)fluoranthene	22.22	0	17.65	79	45-115
Benzo(k)fluoranthene	22.22	0.8021	16.67	71	45-125
Benzo(a)pyrene	22.22	0.5268	15.27	66	50-110
Indeno(1,2,3-cd)pyrene	22.22	0.5553	14.18	61	40-125
Dibenzo(a,h)anthracene	22.22	0	11.56	52	40-125
Benzo(g,h,i)perylene	22.22	0	10.39	47	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix Spike - Sample No.: SS53-0-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	22.22	12.46	56	17	30	40-105
2-Methylnaphthalene	22.22	14.54	65	8	30	45-105
Acenaphthylene	22.22	17.14	77	9	30	50-105
Acenaphthene	22.22	16	72	8	30	45-110
Fluorene	22.22	15.42	69	4	30	50-110
Phenanthrene	22.22	15.95	72	3	30	50-110
Anthracene	22.22	16.46	74	1	30	55-105
Fluoranthene	22.22	20.11	91	4	30	55-115
Pyrene	22.22	18.67	80	4	30	45-125
Benzo(a)anthracene	22.22	18.07	81	3	30	50-110
Chrysene	22.22	16.43	74	2	30	55-110
Benzo(b)fluoranthene	22.22	16.71	75	5	30	45-115
Benzo(k)fluoranthene	22.22	19.51	84	16	30	45-125
Benzo(a)pyrene	22.22	16.18	70	6	30	50-110
Indeno(1,2,3-cd)pyrene	22.22	16.97	74	18	30	40-125
Dibenzo(a,h)anthracene	22.22	13.84	62	18	30	40-125
Benzo(g,h,i)perylene	22.22	12.55	56	19	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SBELCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67	8.473	51	40-105
2-Methylnaphthalene	16.67	9.774	59	45-105
Acenaphthylene	16.67	9.065	54	50-105
Acenaphthene	16.67	8.854	53	45-110
Fluorene	16.67	9.101	55	50-110
Phenanthrene	16.67	9.613	58	50-110
Anthracene	16.67	9.229	55	55-105
Fluoranthene	16.67	10.98	66	55-115
Pyrene	16.67	10.42	63	45-125
Benzo(a)anthracene	16.67	12.24	73	50-110
Chrysene	16.67	11.74	70	55-110
Benzo(b)fluoranthene	16.67	11.29	68	45-115
Benzo(k)fluoranthene	16.67	10.86	65	45-125
Benzo(a)pyrene	16.67	10.48	63	50-110
Indeno(1,2,3-cd)pyrene	16.67	12.07	72	40-125
Dibenzo(a,h)anthracene	16.67	11.74	70	40-125
Benzo(g,h,i)perylene	16.67	11.23	67	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

E. Form IV

Method Blank Results
Form IV, Form I, and Form I - TIC

Method blank summary, OADS, and TICs
- In chronological order of analysis

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKBE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID: 0051720-BLK1JA66 Lab Sample ID: 0051720-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/18/10

Matrix: (soil/water) SOIL Date Analyzed: 05/27/10

Level:(low/med) LOW Time Analyzed: 1827

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SB55-00-2.5-3	1005129-02	1005129-02A6	05/24/10
02	SS54-0-1	1005129-03	1005129-03A6	05/24/10
03	SBELCS	0051720-BS1	0051720-BS1J	05/27/10
04	SS53-0-1	1005129-05	1005129-05JA	05/27/10
05	SS53-0-1MS	0051720-MS1	0051720-MS1J	05/27/10
06	SS53-0-1MSD	0051720-MSD1	0051720-MSD1	05/27/10
07	SB55-00-2.5-3RE	1005129-02	1005129-02JA	05/27/10
08	SS54-0-1RE	1005129-03	1005129-03JA	05/27/10
09	SS55-00-01	1005129-01	1005129-01J2	05/28/10
10	SB54-4-5	1005129-04	1005129-04J2	05/28/10
11	SB53-7-8	1005129-06	1005129-06JC	05/28/10
12	SS80-0-1	1005129-07	1005129-07JC	05/28/10
13	SB80-3-4	1005129-08	1005129-08JC	05/28/10
14	SS56-0-1	1005129-09	1005129-09JC	05/28/10
15	SB56-3-4	1005129-10	1005129-10JC	05/28/10
16	SS58-0-1	1005129-11	1005129-11JC	05/28/10
17	SS52-0-1	1005129-12	1005129-12C6	05/28/10
18	SS57-0-1	1005129-13	1005129-13C6	05/28/10
19	SS60-00-01	1005129-14	1005129-14C6	05/28/10
20	SS59-00-01	1005129-15	1005129-15C6	05/28/10
21	SB59-9-10	1005129-16	1005129-16C6	05/28/10
22	SS85-0-1	1005129-17	1005129-17C6	05/28/10
23	SS89-0-1	1005129-18	1005129-18C6	05/28/10
24	SS78-0-1	1005129-20	1005129-20C6	05/28/10
25	SB89-6.5-7.5	1005129-19	1005129-19JA	05/28/10
26				
27				
28				
29				
30				

COMMENTS:

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SBLKBE

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051720-BLK1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051720-BLK1JA66
Analyst: 2730

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	ND	U
91-57-6	2-Methylnaphthalene	0.68	8.3	ND	U
208-96-8	Acenaphthylene	0.53	8.3	ND	U
83-32-9	Acenaphthene	0.60	8.3	ND	U
86-73-7	Fluorene	0.45	8.3	ND	U
85-01-8	Phenanthrene	1.3	8.3	ND	U
120-12-7	Anthracene	0.43	8.3	ND	U
206-44-0	Fluoranthene	1.3	8.3	ND	U
129-00-0	Pyrene	0.57	8.3	ND	U
56-55-3	Benzo(a)anthracene	0.57	8.3	ND	U
218-01-9	Chrysene	0.63	8.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.57	8.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.43	8.3	ND	U
50-32-8	Benzo(a)pyrene	0.38	8.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

F. Form VIII

Internal standard area and retention time data

(VOA and SV only)

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E24006-CCV1A66 Date Analyzed: 05/24/10

Instrument ID: 5972HP66 Time Analyzed: 1152

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	40910	19.34	33120	21.96	29379	5.57
	UPPER LIMIT	81820	19.84	66240	22.46	58758	6.07
	LOWER LIMIT	20455	18.84	16560	21.46	14689	5.07
	CLIENT SAMPLE NO.						
01	SB55-00-2.5-3	129189*	19.34	74504*	21.97	52789	5.58
02	SS54-0-1	210907*	19.35	125927*	21.97	51999	5.59
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E24006-CCV1A66 Date Analyzed: 05/24/10

Instrument ID: 5972HP66 Time Analyzed: 1152

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	78737	7.81	25566	11.23	46661	14.10
	UPPER LIMIT	157474	8.31	51132	11.73	93322	14.60
	LOWER LIMIT	39369	7.31	12783	10.73	23331	13.60
	CLIENT SAMPLE NO.						
01	SB55-00-2.5-3	159091*	7.81	66003*	11.23	151654*	14.11
02	SS54-0-1	179245*	7.82	71979*	11.23	271233*	14.11
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E27013-CCV1A66 Date Analyzed: 05/27/10

Instrument ID: 5972HP66 Time Analyzed: 1610

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	71315	19.34	62291	21.97	50485	5.56
	UPPER LIMIT	142630	19.84	124582	22.47	100970	6.06
	LOWER LIMIT	35657	18.84	31145	21.47	25243	5.06
	CLIENT SAMPLE NO.						
01	SBLKBE	53421	19.35	41970	21.97	82562	5.59
02	SBELCS	124130	19.34	112777	21.97	84429	5.58
03	SS53-0-1	333624*	19.35	252698*	21.99	142614*	5.58
04	SS53-0-1MS	257990*	19.36	182038*	21.99	153580*	5.58
05	SS53-0-1MSD	324113*	19.37	229426*	22.00	160734*	5.59
06	SB55-00-2.5-3RE	317501*	19.36	264032*	21.99	130793*	5.59
07	SS54-0-1RE	284972*	19.40	213377*	22.00	92763	5.58
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E27013-CCV1A66 Date Analyzed: 05/27/10

Instrument ID: 5972HP66 Time Analyzed: 1610

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	158161	7.81	64901	11.23	103224	14.11
	UPPER LIMIT	316322	8.31	129802	11.73	206448	14.61
	LOWER LIMIT	79081	7.31	32451	10.73	51612	13.61
	CLIENT SAMPLE NO.						
01	SBLKBE	248470	7.82	92983	11.23	122675	14.11
02	SBELCS	261769	7.81	94371	11.23	138001	14.11
03	SS53-0-1	528693*	7.81	224536*	11.23	393801*	14.11
04	SS53-0-1MS	537120*	7.81	223539*	11.23	368807*	14.11
05	SS53-0-1MSD	556915*	7.82	247662*	11.23	442986*	14.11
06	SB55-00-2.5-3RE	441020*	7.82	203734*	11.24	356420*	14.11
07	SS54-0-1RE	316779*	7.83	98482	11.24	297289*	14.13
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E28002-CCV1C66 Date Analyzed: 05/28/10

Instrument ID: 5972HP66 Time Analyzed: 0356

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	189165	19.37	150432	22.00	64670	5.56
	UPPER LIMIT	378330	19.87	300864	22.50	129340	6.06
	LOWER LIMIT	94583	18.87	75216	21.50	32335	5.06
	CLIENT SAMPLE NO.						
01	SS55-00-01	159281	19.36	99720	22.01	56154	5.57
02	SB54-4-5	238720	19.36	177745	22.00	84249	5.57
03	SB53-7-8	243479	19.37	179403	22.00	107917	5.58
04	SS80-0-1	231011	19.37	159665	22.01	91946	5.57
05	SB80-3-4	222307	19.37	165303	22.00	102886	5.58
06	SS56-0-1	223023	19.37	154630	22.00	92331	5.57
07	SB56-3-4	213207	19.37	155530	22.00	88076	5.57
08	SS58-0-1	249522	19.37	192473	22.00	111967	5.57
09	SS52-0-1	208035	19.37	129855	22.01	57453	5.57
10	SS57-0-1	200668	19.37	108312	22.01	107600	5.58
11	SS60-00-01	302687	19.37	240328	22.02	116801	5.57
12	SS59-00-01	282722	19.38	207466	22.02	115545	5.58
13	SB59-9-10	182532	19.38	129859	22.02	83217	5.58
14	SS85-0-1	222652	19.38	162751	22.02	74280	5.59
15	SS89-0-1	196970	19.38	137344	22.01	83502	5.59
16	SS78-0-1	298351	19.40	235215	22.03	95575	5.58
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E28002-CCV1C66 Date Analyzed: 05/28/10

Instrument ID: 5972HP66 Time Analyzed: 0356

		IS4 (NPT) AREA #	RT #	IS5 (ANT) AREA #	RT #	IS6 (PHN) AREA #	RT #
	12 HOUR STD	198198	7.81	107362	11.23	205329	14.13
	UPPER LIMIT	396396	8.31	214724	11.73	410658	14.63
	LOWER LIMIT	99099	7.31	53681	10.73	102665	13.63
	CLIENT SAMPLE NO.						
01	SS55-00-01	171472	7.81	86512	11.23	179353	14.11
02	SB54-4-5	259658	7.81	136238	11.24	254346	14.13
03	SB53-7-8	347779	7.81	163388	11.23	292288	14.11
04	SS80-0-1	295472	7.81	142435	11.23	263547	14.11
05	SB80-3-4	315643	7.81	155505	11.23	275088	14.11
06	SS56-0-1	287927	7.81	135268	11.23	254797	14.11
07	SB56-3-4	279669	7.82	145468	11.23	264541	14.11
08	SS58-0-1	358736	7.82	168625	11.23	317190	14.11
09	SS52-0-1	171596	7.81	94918	11.23	222260	14.13
10	SS57-0-1	335041	7.81	157086	11.24	263584	14.13
11	SS60-00-01	386297	7.81	197216	11.24	362797	14.13
12	SS59-00-01	369127	7.81	182060	11.23	349017	14.13
13	SB59-9-10	234670	7.83	122476	11.24	225358	14.13
14	SS85-0-1	218917	7.83	123059	11.24	253327	14.13
15	SS89-0-1	247805	7.83	138885	11.24	256366	14.13
16	SS78-0-1	324420	7.83	176002	11.24	349613	14.13
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E28012-CCV1A66 Date Analyzed: 05/28/10

Instrument ID: 5972HP66 Time Analyzed: 2137

		IS1(CRY)		IS2(PRY)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	149301	19.34	133675	21.96	59565	5.54
	UPPER LIMIT	298602	19.84	267350	22.46	119130	6.04
	LOWER LIMIT	74651	18.84	66837	21.46	29783	5.04
	CLIENT SAMPLE NO.						
01	SB89-6.5-7.5	155530	19.33	140037	21.96	71612	5.55
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E28012-CCV1A66 Date Analyzed: 05/28/10

Instrument ID: 5972HP66 Time Analyzed: 2137

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	213034	7.79	97077	11.22	176258	14.09
	UPPER LIMIT	426068	8.29	194154	11.72	352516	14.59
	LOWER LIMIT	106517	7.29	48539	10.72	88129	13.59
	CLIENT SAMPLE NO.						
01	SB89-6.5-7.5	244230	7.79	108173	11.20	184655	14.09
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC/MS by SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

LAB CODE : LIBRTY

METHOD: 8270C

SDG # : 1005129

A. SDG Narrative

CompuChem
A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005129
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SS55-00-01, SB55-00-2.5-3, SS54-0-1, SB54-4-5, SS53-0-1, SB53-7-8, SS80-0-1, SB80-3-4, SS56-0-1, SB56-3-4, SS58-0-1, SS52-0-1, SS57-0-1, SS60-00-01, SS59-00-01, SB59-9-10, SS85-0-1, SS89-0-1, SB89-6.5-7.5, SS78-0-1.

The 20 soil samples listed above were received intact, refrigerated at 0.2-4.1°C, with proper documentation, in sealed shipping containers, on May 13-14, 2010. The samples were scheduled for the requested analyses of the semivolatile fraction. SW-846, 3rd Edition, Update 3, Sonication extraction (Method 3550B), Method 8270C and Selected Ion Monitoring (SIM) were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. The percent moisture values of these soil samples ranged from 5-34. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for SDG # 1005129 are included in the sample data sections. Extraction and analysis holding time requirements were met for all of these samples.

Many semivolatile project analytes were identified above the reporting limit in sample SS89-0-1. Manual quantitations were performed on one or more of the process files associated with this SDG. Please see the manual integration summary page following the narrative for specific information regarding manual integreations for each sample and analyte. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

In the initial analysis of SB55-00-2.5-3 and SS54-0-1, the response of multiple internal standards failed quality control criteria. The samples were reinjected and the internal standards again failed response criteria. We have attributed the failing internal standard responses to the particular matrix of the samples. Therefore we have reported both analyses of SB55-00-2.5-3 and SS54-0-1. SS53-0-1 was used as the original to prepare the duplicate matrix spikes (as requested). In the analysis of the original, the response of multiple internal standards failed quality control criteria. The analyses of the duplicate matrix spikes also failed recovery criteria for these internal standards. We have attributed the failing internals standard to the particular matrix of the original. In the initial analysis of SB59-9-10, the recovery of the surrogate, 2-fluorobiphenyl, failed DoD quality control criteria. The recovery met our in-house limits. We are reporting this sample as is.

Mass assignments were verified by the injections of perfluorotributylamine (PFTBA). Overall quality control criteria were met for all initial and continuing calibration standards associated to this SDG. The associated method blank met all quality control criteria. The associated duplicate matrix spikes met all advisory accuracy and precision criteria. The associated Laboratory Control Sample (LCS) met all accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Rebecca K Mead

Rebecca K. Mead, Ph.D.
Laboratory Director
June 10, 2010

Manual Integrations												
SDG: 1005129												
				Samples								
	-03	-03RE	-05	-01	-07	-09	-10	-11	-12	-18	-20	-08
Compound												
Naphthalene												
2-Methylnaphthalene												
1-Methylnaphthalene												
Acenaphthylene												
Acenaphthene												
Fluorene												
Phenanthrene												
Anthracene												
Fluoranthene												
Pyrene												
Benzo(a)anthracene												
Chrysene									✓			
Benzo(b)fluoranthene						✓			✓	✓		
Benzo(k)fluoranthene			✓	✓	✓	✓			✓	✓	✓	
Benzo(a)pyrene						✓				X		
Indeno(1,2,3-cd)pyrene			✓	✓	✓	✓						
Dibenzo(a,h)anthracene												
Benzo(g,h,i)perylene				✓		✓						
1,4-Dichlorobenzene-d4												
Naphthalene-d8							✓	✓				✓
Acenaphthene-d10	✓	✓										
Phenanthrene-d10												
Chrysene-d12												
Perylene-d12												
2-Fluorophenol												
Phenol-d5												
Nitrobenzene-d5												
2,4,6-Tribromophenol												
2-Fluorobiphenyl												
Terphenyl-d14												
"X" Denotes a manual integration for the compound												

GC and GC/MS Column and Trap Specifications Table

SDG #:	1005129

COLUMNS*

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
√	Restek	clpest	0.32	0.5	30
√	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
√	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS*

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semi-volatiles, pesticides, and Aroclors by the SOM01.2 SOW. Please see the SDG Narratives(s) for the specific fraction(s) relative to this SDG.

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and all reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	05/27/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	06/03/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	05/27/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	06/03/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	05/27/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	06/03/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	05/27/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	06/03/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	05/27/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	06/03/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS56-0-1-10B

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	05/27/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	06/03/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	05/27/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	06/03/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	05/27/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	06/03/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	05/27/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	06/03/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	05/27/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	06/03/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS56-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS56-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-10	SB56-3-4	05/11/2010	05/13/2010	05/27/2010	BBG-SB56-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-10	SB56-3-4	05/11/2010	05/13/2010	06/03/2010	BBG-SB56-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-11	SS58-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS58-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-11	SS58-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS58-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-12	SS52-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS52-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-12	SS52-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS52-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-13	SS57-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS57-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-13	SS57-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS57-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-14	SS60-00-01	05/12/2010	05/14/2010	05/27/2010	BBG-SS60-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-14	SS60-00-01	05/12/2010	05/14/2010	06/03/2010	BBG-SS60-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-15	SS59-00-01	05/12/2010	05/14/2010	05/27/2010	BBG-SS59-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-15	SS59-00-01	05/12/2010	05/14/2010	06/03/2010	BBG-SS59-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-16	SB59-9-10	05/12/2010	05/14/2010	05/27/2010	BBG-SB59-9-10-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-16	SB59-9-10	05/12/2010	05/14/2010	06/03/2010	BBG-SB59-9-10-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-17	SS85-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS85-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-17	SS85-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS85-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-18	SS89-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS89-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-18	SS89-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS89-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-19	SB89-6.5-7.5	05/13/2010	05/14/2010	05/27/2010	BBG-SB89-6.5-7.5-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-19	SB89-6.5-7.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB89-6.5-7.5-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-20	SS78-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS78-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-20	SS78-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS78-0-1-10B

WORK ORDER

Printed: 5/28/2010 6:51:57PM

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Prepared**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/03/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/14/2010 09:20

Logged In By: Cathy Dover — Date Logged In: 05/14/2010 19:10

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005129-05 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A*TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005129-01 SS55-00-01 [Soil] Sampled 05/11/2010 07:40 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:40	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:40	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:40	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:40	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:40	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-02 SB55-00-2.5-3 [Soil] Sampled 05/11/2010 07:50 Eastern					
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:50	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:50	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:50	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:50	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:50	05/13/2010 09:30	SubList = GC- 8081 DOD

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005129 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005129-03 SS54-0-1 [Soil] Sampled 05/11/2010 08:40 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:40	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:40	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:40	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:40	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:40	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-04 SB54-4-5 [Soil] Sampled 05/11/2010 08:50 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:50	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:50	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:50	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:50	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:50	05/13/2010 09:30	SubList = SVsim- PAH
1005129-05 SS53-0-1 [Soil] Sampled 05/11/2010 09:50 Eastern				**USE FOR QC**	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:50	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:50	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:50	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:50	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:50	05/13/2010 09:30	
1005129-06 SB53-7-8 [Soil] Sampled 05/11/2010 09:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:55	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:55	05/13/2010 09:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:55	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:55	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:55	05/13/2010 09:30	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Received**

Analysis	Due	TAT	Expires		Comments
1005129-07 SS80-0-1 [Soil] Sampled 05/12/2010 07:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 07:55	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 07:55	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 07:55	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 07:55	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 07:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 07:55	05/13/2010 09:30	SubList = SVsim- PAH
1005129-08 SB80-3-4 [Soil] Sampled 05/12/2010 08:00 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 08:00	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 08:00	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 08:00	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 08:00	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 08:00	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 08:00	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-09 SS56-0-1 [Soil] Sampled 05/11/2010 11:25 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:25	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:25	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:25	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:25	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:25	05/13/2010 09:30	SubList = SVsim- PAH
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:25	05/13/2010 09:30	
1005129-10 SB56-3-4 [Soil] Sampled 05/11/2010 11:30 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:30	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:30	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:30	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:30	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:30	05/13/2010 09:30	

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005129 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005129-11 SS58-0-1 [Soil] Sampled 05/12/2010 10:15 Eastern					
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 10:15	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 10:15	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 10:15	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 10:15	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 10:15	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 10:15	05/13/2010 09:30	SubList = SVsim- PAH
1005129-12 SS52-0-1 [Soil] Sampled 05/11/2010 15:15 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 15:15	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 15:15	05/13/2010 09:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 15:15	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 15:15	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 15:15	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 15:15	05/13/2010 09:30	
1005129-13 SS57-0-1 [Soil] Sampled 05/12/2010 12:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 12:05	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 12:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 12:05	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 12:05	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 12:05	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 12:05	05/13/2010 09:30	
1005129-14 SS60-00-01 [Soil] Sampled 05/12/2010 15:55 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 15:55	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:55	05/14/2010 09:20	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:55	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:55	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:55	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 15:55	05/14/2010 09:20	

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005129 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005129-15 SS59-00-01 [Soil] Sampled 05/12/2010 16:40 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:40	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:40	05/14/2010 09:20	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:40	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:40	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:40	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:40	05/14/2010 09:20	SubList = SVsim- PAH
1005129-16 SB59-9-10 [Soil] Sampled 05/12/2010 16:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:55	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:55	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:55	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:55	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:55	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:55	05/14/2010 09:20	
1005129-17 SS85-0-1 [Soil] Sampled 05/13/2010 07:40 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 07:40	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 07:40	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 07:40	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 07:40	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 07:40	05/14/2010 09:20	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 07:40	05/14/2010 09:20	
1005129-18 SS89-0-1 [Soil] Sampled 05/13/2010 08:25 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:25	05/14/2010 09:20	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:25	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:25	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:25	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:25	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:25	05/14/2010 09:20	

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005129 **CASE:**	**Status:**	Batched

Analysis	Due	TAT	Expires		Comments
1005129-19 SB89-6.5-7.5 [Soil] Sampled 05/13/2010 08:45 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:45	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:45	05/14/2010 09:20	SubList = SVsim- PAH
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:45	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:45	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:45	05/14/2010 09:20	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:45	05/14/2010 09:20	
1005129-20 SS78-0-1 [Soil] Sampled 05/13/2010 09:30 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 09:30	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 09:30	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 09:30	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 09:30	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 09:30	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 09:30	05/14/2010 09:20	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

24804

74

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information	Requested Analysis (see TestCode)
Company Name: CH2M HILL	Project Name: CTO-94	
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ	
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT	
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?	
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N) NO	
Sampler's Name: K. ROGERS/RDM	Are high concentrations expected? Y or (N)? If yes, which ID(s)?	

Matrix Codes: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL PEST. 3550/8081A	Chromium VI, ~~ST~~ 7196A	Metals 6010B/7471A	GRAINSIZE ASTM D422	Total Chromium 6010B	Grain size	
1005130-01	BBG-SS23-00-01-10B	5-10-10	1620	SO	3							X	X	X		X	X	1005166-01	
-02	BBG-SB23-1.5-2-10B	5-10-10	1630	SO	3							X	X	X		X	X		-02
1005129-01	BBG-SS55-00-01-10B	5-11-10	0740	SO	3							X	X	X	X	X		@	-03
-02	BBG-SB55-2.5-3-10B	5-11-10	0750	SO	3							X	X	X	X	X			-04
-03	BBG-SS54-0-1-10B	5-11-10	0840	SO	3							X	X	X	X	X		1005210-18	
-04	BBG-SB54-4-5-10B	5-11-10	0850	SO	3							X	X	X	X	X		1005166-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by:	Date/Time:	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grainsize to CT LABS
Custody Seal(s) intact? Ø or N
On Ice? Ø or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24805

Page 1 of 1

75

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 CLEVELAND ST STE	Sampling Location: MCB CAMLEJ
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: ROBBKNA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N) NA
Sampler's Name: K. ROGERS / IDW	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (Include Method and Matrix Type)

CompuChem No. (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	(1) SVOCs SIM PAH 3550B/8270C	TCL PESTICIDES 3550/8081A	Chromium VI (1) 3060A/7196A	METALS 6010B/7471A	GRAIN SIZE ASTM D422	TOTAL CHROMIUM 6010B		GRAIN SIZE					
1005129-05	BBG-SS53-0-1-10B	5.11.10	0930	SO	3							X	X	X	X	X			1005166-06					
-05	BBG-SS53-0-1-10B-MS	5.11.10	0930	SO	3							X	X	X	X									
-05	BBG-SS53-0-1-10B-SD	5.11.10	0930	SO	3							X	X	X	X									
-06	BBG-SB53-7-8-10B	5.11.10	0955	SO	3							X	X	X	X	X			1005166-07					
1005130-03	BBG-SS24-0-1-10B	5.11.10	1045	SO	3							X	X	X		X	X		1005166-08					
-04	BBG-SB24-3-4-10B	5.11.10	1055	SO	3							X	X	X		X	X		1005166-09					

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? GRAIN SIZE to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24807 76

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 8270C/3550B (4oz)	TCL PEST. 3550/8081A	(P) CHROMIUM VI, ~~6010B/7196A~~ (2oz)	METALS 6010B/7471A	GRAINSIZE ASTM D422 (8oz)	TOTAL CHROMIUM (6010B)		Gram size
1005130-05	BBG-SS49-0-1-10B	5-11-10	1405	SO	3							X	X	X		X	X		1005166-10
↓ -06	BBG-SB49-11-12-10B	5-12-10	1422	SO	3							X	X	X		X	X		-11
1005129-07	BBG-SS80-0-1-10B	5-12-10	0755	SO	3							X	X	X	X	X			-12
↓ -08	BBG-SB80-3-4-10B	5-12-10	0800	SO	3							X	X	X	X	X			-13
1005130-07	BBG-SS50-0-1-10B	5-11-10	1445	SO	3							X	X	X		X	X		-14
-07	BBG-SS50-0-1-10B-MS	5-11-10	1445	SO	3							X	X	X		X	X		
↓ -07	BBG-SS50-0-1-10B-SD	5-11-10	1445	SO	3							X	X	X		X	X		

Lab Use Only

Sample Unpacked By: [signature]
Sample Order Entry By: [signature]
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

* SB49-11-12-10B Sample time reads 1420 DB 5/13/10

Sample Custody

Relinquished by: [signature]	Date/Time: 5-12-10 / 1300	Received by: [signature]	Date/Time: 5-13-10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? (Y) or N If yes, where? Grain size to CT LABS		Custody Seal(s) intact? (Y) or N / On Ice? (Y) or N	Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

SN0015

24806

77

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS/RON

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N If yes, which ID(s)?

Requested Analysis (Include Method Number and Container Preservative Type)

Matrix codes: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem Lab Number (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL Pest 3550/8081A	Chromium VI 7196A	Metals 6010B/7471A	Grain Size ASTM D422	Total Chromium 6010B		Gran size	Sample Comments
1005129-09	BBG-SB56-0-1-10B	5-11-10	1125	SO	3							X	X	X	X	X			1005166-15	
-10	BBG-SB56-3-4-10B	5-11-10	1130	SO	3			BBG-SB56-3-4-10B				X	X	X	X	X			-16	
-11	BBG-SB58-0-1-10B	5-12-10	1015	SO	3							X	X	X	X	X			-17	
1005130-08	BBG-SB47-14-15-10B	5-12-10	0940	SO	3							X	X	X		X	X		-18	
-09	BBG-SB47-0-1-10B	5-12-10	0910	SO	3							X	X	X		X	X		-19	
-10	BBG-SB11-0-1-10B	5-11-10	1605	SO	3							X	X	X		X	X		-20	
-11	BBG-SB11-11-12-10B	5-11-10	1620	SO	3							X	X	X		X	X		1005209-01	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by:	Date/Time: 5/12/10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where? Gran size to CT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 4.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24770

78

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, Ste 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDM

Project Information

Project Name: GTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Analysis and Containers

Lab Sample No. (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (Share (1-1L) w/ TCL)	TCL Pest. (8081A) (1-1L)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B)	Chromium VI (7196A) (1-125ml)	Grain Size (1-8oz.)		Grain Size			Container Type
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X						12
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X		1005209-02			
-13	BBG-SB48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X					03
1005129-12	BBG-SB52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X					04
-13	BBG-SB57-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X					05

Container Type: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grain size to GT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

CompuChem
a division of Liberty Analytical Corp.

5/14/10 AB — Residual Chlorine Present? Yes ____ No ____

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

202 807 802

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M Hill	Project Name: CTO-94
Address: 5700 Cleveland St., Ste 101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time
Project Contact: Rebekha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Kristin Rogers / RDU	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem Project ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Chrom VI (7196A)	Total Chrom (6010B)	Total Metals (6010B)	Grain Size (ASTM D422)	SIM PAH's (8270C)	TCL Pest. (8081A)		Grain size					
1005130-14	BBG-SS18-0-1-10B	5-12-10	1505	SO	3							X	X		X	X	X		1005209-06					
-15	BBG-SB18-12-13-10B	5-12-10	1520	SO	3							X	X		X	X	X			-07					
1005129-14	BBG-SS60-0-1-10B	5-12-10	1555	SO	3							X		X	X	X	X			-08					
-15	BBG-SS59-0-1-10B	5-12-10	1640	SO	3							X		X	X	X	X			-09					
-16	BBG-SB59-9-10-10B	5-12-10	1655	SO	3							X		X	X	X	X			-10					
1005130-16	BBG-SS25-0-1-10B	5-13-10	1105	SO	3							X	X		X	X	X			-11					
-17	BBG-SB25-3-4-10B	5-13-10	1110	SO	3							X	X		X	X	X			-12					

Comments:

Sample Unpacked By: Drew Byrd
Sample Order Entry By: Amy Long
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Relinquished by: [signature] Date/Time: 5-13-10 / 1330 Received by: [signature] Date/Time: 5/14/10 0920
Relinquished by: Date/Time: Received by: Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS Custody Seal(s) intact? (Y) or N On Ice? (Y) or N Cooler Temp: 1.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SW0015

24772

Page 1 of 1

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDH

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem Lab #	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B)	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C)	TCL Pest (8081A)	Grain Size (ASTM D422) 8oz		Grain size	
1005129-17	BBG-SB85-0-1-10B	5-13-10	0740	SO	3							X		X	X	X	X		1005209-13	
1005132-01	BBG-SB85-1.5-2.5-10B	5-13-10	0745	SO	3							X		X	X	X	X			-14
	BBG-SB85-1.5-2.5-10B-MS*	5-13-10	0745	SO	2							X		X	X	X	X(2)		no grain size on MS/MSD	
	BBG-SB85-1.5-2.5-10B-SD*	5-13-10	0745	SO	2							X		X	X	X	X(2)			
1005129-18	BBG-SB89-0-1-10B	5-13-10	0825	SO	3							X		X	X	X	X		1005209-15	
-19	BBG-SB89-6.5-7.5-10B	5-13-10	0845	SO	3							X		X	X	X	X			-16
-20	BBG-SB78-0-1-10B	5-13-10	0930	SO	3							X		X	X	X	X			-17
1005132-02	BBG-SB78-3.5-4.5-10B	5-13-10	1040	SO	3							X		X	X	X	X			-18

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

BBG-SB85-1.5-2.5-10B (MS + SD) Did not receive grainsize jar. DB 5/14/10

Relinquished by:	Date/Time: 5-13-10 1330	Received by: Diane Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

WORK ORDER

Printed: 6/10/2010 2:21:43PM

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129**		

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due:	06/03/2010 00:00 (20 day TAT)		
Received By:	Cathy Dover	Date Received:	05/14/2010 09:20
Logged In By:	Cathy Dover	Date Logged In:	05/14/2010 19:10

Samples Received at: **0.2°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes	Temp Blank Presen	Yes
COC/Labels Agree	Yes	Tags	No
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
1005129-01 SS55-00-01 [Soil] Sampled 05/11/2010 07:40 Eastern				
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:40	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:40	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:40	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:40	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:40	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:40	
1005129-02 SB55-00-2.5-3 [Soil] Sampled 05/11/2010 07:50 Eastern				
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:50	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:50	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:50	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:50	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:50	SubList = GC- 8081 DOD
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:50	
1005129-03 SS54-0-1 [Soil] Sampled 05/11/2010 08:40 Eastern				
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:40	SubList = SVsim- PAH
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:40	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:40	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:40	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:40	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:40	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129**		

Analysis	Due	TAT	Expires	Comments
1005129-04 SB54-4-5 [Soil] Sampled 05/11/2010 08:50 Eastern				
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:50	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:50	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:50	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:50	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:50	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:50	SubList = SVsim- PAH
1005129-05 SS53-0-1 [Soil] Sampled 05/11/2010 09:50 Eastern				**USE FOR QC**
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:50	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:50	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:50	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:50	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:50	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:50	
1005129-06 SB53-7-8 [Soil] Sampled 05/11/2010 09:55 Eastern				
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:55	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:55	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:55	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:55	SubList = GC- 8081 DOD
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:55	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:55	SubList = SVsim- PAH
1005129-07 SS80-0-1 [Soil] Sampled 05/12/2010 07:55 Eastern				
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 07:55	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 07:55	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 07:55	SubList = SVsim- PAH
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 07:55	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 07:55	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 07:55	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129**		

Analysis	Due	TAT	Expires	Comments
1005129-08 SB80-3-4 [Soil] Sampled 05/12/2010 08:00 Eastern				
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 08:00	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 08:00	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 08:00	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 08:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 08:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 08:00	
1005129-09 SS56-0-1 [Soil] Sampled 05/11/2010 11:25 Eastern				
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:25	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:25	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:25	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:25	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:25	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:25	SubList = GC- 8081 DOD
1005129-10 SB56-3-4 [Soil] Sampled 05/11/2010 11:30 Eastern				
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:30	
1005129-11 SS58-0-1 [Soil] Sampled 05/12/2010 10:15 Eastern				
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 10:15	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 10:15	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 10:15	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 10:15	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 10:15	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 10:15	SubList = SVsim- PAH

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129**		

Analysis	Due	TAT	Expires	Comments
1005129-12 SS52-0-1 [Soil] Sampled 05/11/2010 15:15 Eastern				
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 15:15	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 15:15	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 15:15	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 15:15	SubList = SVsim- PAH
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 15:15	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 15:15	
1005129-13 SS57-0-1 [Soil] Sampled 05/12/2010 12:05 Eastern				
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 12:05	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 12:05	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 12:05	SubList = SVsim- PAH
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 12:05	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 12:05	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 12:05	
1005129-14 SS60-00-01 [Soil] Sampled 05/12/2010 15:55 Eastern				
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:55	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:55	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:55	SubList = GC- 8081 DOD
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 15:55	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 15:55	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:55	
1005129-15 SS59-00-01 [Soil] Sampled 05/12/2010 16:40 Eastern				
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:40	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:40	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:40	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:40	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:40	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:40	SubList = SVsim- PAH

1005129

COMPUCHEM

Client: CH2M HILL, INC. **Project Manager:** Cathy Dover
Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Project Number:** CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG: 1005129

Analysis	Due	TAT	Expires	Comments
1005129-16 SB59-9-10 [Soil] Sampled 05/12/2010 16:55 Eastern				
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:55	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:55	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:55	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:55	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:55	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:55	SubList = GC- 8081 DOD
1005129-17 SS85-0-1 [Soil] Sampled 05/13/2010 07:40 Eastern				
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 07:40	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 07:40	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 07:40	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 07:40	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 07:40	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 07:40	
1005129-18 SS89-0-1 [Soil] Sampled 05/13/2010 08:25 Eastern				
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:25	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:25	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:25	SubList = SVsim- PAH
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:25	
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:25	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:25	SubList = GC- 8081 DOD
1005129-19 SB89-6.5-7.5 [Soil] Sampled 05/13/2010 08:45 Eastern				
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:45	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:45	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:45	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:45	SubList = GC- 8081 DOD
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:45	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:45	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129**		

Analysis	Due	TAT	Expires	Comments
1005129-20 SS78-0-1 [Soil] Sampled 05/13/2010 09:30 Eastern				
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 09:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 09:30	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

Reviewed By

Date

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

DEPT: EXTR 5-18-1 **DATE:** 5-18-10

BATCH: 0051720

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0051720-BLK1	SBLKBE		
2	0051720-BS1	SBELCS		
3	0051720-MS1	SS53-0-1MS		
4	0051720-MSD1	SS53-0-1MSD		
5	1005129-01	SS55-00-01		
6	1005129-02	SB55-00-2.5-3		
7	1005129-03	SS54-0-1		
8	1005129-04	SB54-4-5		
9	1005129-05	SS53-0-1		
10	1005129-06	SB53-7-8	PW 6/10/10	
11	1005129-07	SS80-0-1		
12	1005129-08	SB80-3-4		
13	1005129-09	SS56-0-1		
14	1005129-10	SB56-3-4		
15	1005129-11	SS58-0-1		
16	1005129-12	SS52-0-1		
17	1005129-13	SS57-0-1		
18	1005129-14	SS60-00-01		
19	1005129-15	SS59-00-01		
20	1005129-16	SB59-9-10		
	1005129-17	SS85-0-1		
	1005129-18	SS89-0-1		
	1005129-19	SB89-6.5-7.5		
	1005129-20	SS78-0-1		

RELINQUISHED BY	DATE/TIME	REC. BY	REASON
I. WILLIAMS	5-18-10 1930	GC REFRIG. #3	STORAGE
GCMS#3	5/24 1200	DF	Analysis
DF	5/24 1600	GCMS#3	Storage
GCMS#3	5/28 0100	MW	analysis
MW	5/28 0700	GCMS#3	Storage
GC/MS#3	5-29-10 1200	DF	Analysis
DF	5-29-10 1600	GC/MS#3	Storage

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE :LIBRTY METHOD: 8270C

SDG # : 1005129

1. QC Summary

a. Surrogate Percent Recovery Summary (Form II SV)

b. Spike Summary - MS / MSD / LCS
(Form III SV)

c. Method Blank Summary (Form IV SV)

d. GC/MS Instrument Performance Check
(Form V SV)

e. Internal Standard Area and RT Summary
(Form VIII SV)

a. Surrogate Percent Recovery Summary

(Form II SV)

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SB55-00-2.5-3	66	56	122						0
02	SS54-0-1	68	73	111						0
03	SBLKBE	63	61	98						0
04	SBELCS	59	61	73						0
05	SS53-0-1	57	62	79						0
06	SS53-0-1MS	60	70	87						0
07	SS53-0-1MSD	82	78	92						0
08	SB55-00-2.5-3RE	61	53	80						0
09	SS54-0-1RE	60	97	77						0
10	SS55-00-01	66	65	91						0
11	SB54-4-5	63	48	85						0
12	SB53-7-8	52	46	81						0
13	SS80-0-1	65	64	93						0
14	SB80-3-4	72	45	95						0
15	SS56-0-1	60	51	85						0
16	SB56-3-4	58	45	99						0
17	SS58-0-1	72	64	95						0
18	SS52-0-1	75	51	88						0
19	SS57-0-1	67	70	99						0
20	SS60-00-01	67	62	89						0
21	SS59-00-01	72	70	95						0
22	SB59-9-10	54	39*	93						1
23	SS85-0-1	61	46	94						0
24	SS89-0-1	72	48	98						0
25	SS78-0-1	75	76	93						0
26	SB89-6.5-7.5	54	45	72						0
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

b. Spike Summary - MS / MSD / LCS
(Form III SV)

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix Spike - Sample No.: SS53-0-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	22.22	0	10.55	47	40-105
2-Methylnaphthalene	22.22	0	13.43	60	45-105
Acenaphthylene	22.22	0	15.68	71	50-105
Acenaphthene	22.22	0	14.71	66	45-110
Fluorene	22.22	0	14.8	67	50-110
Phenanthrene	22.22	0	16.4	74	50-110
Anthracene	22.22	0	16.58	75	55-105
Fluoranthene	22.22	0	19.4	87	55-115
Pyrene	22.22	0.924	18	77	45-125
Benzo(a)anthracene	22.22	0	17.47	79	50-110
Chrysene	22.22	0	16.06	72	55-110
Benzo(b)fluoranthene	22.22	0	17.65	79	45-115
Benzo(k)fluoranthene	22.22	0.8021	16.67	71	45-125
Benzo(a)pyrene	22.22	0.5268	15.27	66	50-110
Indeno(1,2,3-cd)pyrene	22.22	0.5553	14.18	61	40-125
Dibenzo(a,h)anthracene	22.22	0	11.56	52	40-125
Benzo(g,h,i)perylene	22.22	0	10.39	47	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix Spike - Sample No.: SS53-0-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	22.22	12.46	56	17	30	40-105
2-Methylnaphthalene	22.22	14.54	65	8	30	45-105
Acenaphthylene	22.22	17.14	77	9	30	50-105
Acenaphthene	22.22	16	72	8	30	45-110
Fluorene	22.22	15.42	69	4	30	50-110
Phenanthrene	22.22	15.95	72	3	30	50-110
Anthracene	22.22	16.46	74	1	30	55-105
Fluoranthene	22.22	20.11	91	4	30	55-115
Pyrene	22.22	18.67	80	4	30	45-125
Benzo(a)anthracene	22.22	18.07	81	3	30	50-110
Chrysene	22.22	16.43	74	2	30	55-110
Benzo(b)fluoranthene	22.22	16.71	75	5	30	45-115
Benzo(k)fluoranthene	22.22	19.51	84	16	30	45-125
Benzo(a)pyrene	22.22	16.18	70	6	30	50-110
Indeno(1,2,3-cd)pyrene	22.22	16.97	74	18	30	40-125
Dibenzo(a,h)anthracene	22.22	13.84	62	18	30	40-125
Benzo(g,h,i)perylene	22.22	12.55	56	19	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SBELCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67	8.473	51	40-105
2-Methylnaphthalene	16.67	9.774	59	45-105
Acenaphthylene	16.67	9.065	54	50-105
Acenaphthene	16.67	8.854	53	45-110
Fluorene	16.67	9.101	55	50-110
Phenanthrene	16.67	9.613	58	50-110
Anthracene	16.67	9.229	55	55-105
Fluoranthene	16.67	10.98	66	55-115
Pyrene	16.67	10.42	63	45-125
Benzo(a)anthracene	16.67	12.24	73	50-110
Chrysene	16.67	11.74	70	55-110
Benzo(b)fluoranthene	16.67	11.29	68	45-115
Benzo(k)fluoranthene	16.67	10.86	65	45-125
Benzo(a)pyrene	16.67	10.48	63	50-110
Indeno(1,2,3-cd)pyrene	16.67	12.07	72	40-125
Dibenzo(a,h)anthracene	16.67	11.74	70	40-125
Benzo(g,h,i)perylene	16.67	11.23	67	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV SV)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKBE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID: 0051720-BLK1JA66 Lab Sample ID: 0051720-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/18/10

Matrix: (soil/water) SOIL Date Analyzed: 05/27/10

Level:(low/med) LOW Time Analyzed: 1827

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SB55-00-2.5-3	1005129-02	1005129-02A6	05/24/10
02	SS54-0-1	1005129-03	1005129-03A6	05/24/10
03	SBELCS	0051720-BS1	0051720-BS1J	05/27/10
04	SS53-0-1	1005129-05	1005129-05JA	05/27/10
05	SS53-0-1MS	0051720-MS1	0051720-MS1J	05/27/10
06	SS53-0-1MSD	0051720-MSD1	0051720-MSD1	05/27/10
07	SB55-00-2.5-3RE	1005129-02	1005129-02JA	05/27/10
08	SS54-0-1RE	1005129-03	1005129-03JA	05/27/10
09	SS55-00-01	1005129-01	1005129-01J2	05/28/10
10	SB54-4-5	1005129-04	1005129-04J2	05/28/10
11	SB53-7-8	1005129-06	1005129-06JC	05/28/10
12	SS80-0-1	1005129-07	1005129-07JC	05/28/10
13	SB80-3-4	1005129-08	1005129-08JC	05/28/10
14	SS56-0-1	1005129-09	1005129-09JC	05/28/10
15	SB56-3-4	1005129-10	1005129-10JC	05/28/10
16	SS58-0-1	1005129-11	1005129-11JC	05/28/10
17	SS52-0-1	1005129-12	1005129-12C6	05/28/10
18	SS57-0-1	1005129-13	1005129-13C6	05/28/10
19	SS60-00-01	1005129-14	1005129-14C6	05/28/10
20	SS59-00-01	1005129-15	1005129-15C6	05/28/10
21	SB59-9-10	1005129-16	1005129-16C6	05/28/10
22	SS85-0-1	1005129-17	1005129-17C6	05/28/10
23	SS89-0-1	1005129-18	1005129-18C6	05/28/10
24	SS78-0-1	1005129-20	1005129-20C6	05/28/10
25	SB89-6.5-7.5	1005129-19	1005129-19JA	05/28/10
26				
27				
28				
29				
30				

COMMENTS:

FORM IV SV

d. GC/MS Instrument Performance Check (Form V SV)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

e. Internal Standard Area and RT Summary (Form VIII SV)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E24006-CCV1A66 Date Analyzed: 05/24/10

Instrument ID: 5972HP66 Time Analyzed: 1152

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	40910	19.34	33120	21.96	29379	5.57
	UPPER LIMIT	81820	19.84	66240	22.46	58758	6.07
	LOWER LIMIT	20455	18.84	16560	21.46	14689	5.07
	CLIENT SAMPLE NO.						
01	SB55-00-2.5-3	129189*	19.34	74504*	21.97	52789	5.58
02	SS54-0-1	210907*	19.35	125927*	21.97	51999	5.59
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E24006-CCV1A66 Date Analyzed: 05/24/10

Instrument ID: 5972HP66 Time Analyzed: 1152

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	78737	7.81	25566	11.23	46661	14.10
	UPPER LIMIT	157474	8.31	51132	11.73	93322	14.60
	LOWER LIMIT	39369	7.31	12783	10.73	23331	13.60
	CLIENT SAMPLE NO.						
01	SB55-00-2.5-3	159091*	7.81	66003*	11.23	151654*	14.11
02	SS54-0-1	179245*	7.82	71979*	11.23	271233*	14.11
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E27013-CCV1A66 Date Analyzed: 05/27/10

Instrument ID: 5972HP66 Time Analyzed: 1610

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	71315	19.34	62291	21.97	50485	5.56
	UPPER LIMIT	142630	19.84	124582	22.47	100970	6.06
	LOWER LIMIT	35657	18.84	31145	21.47	25243	5.06
	CLIENT SAMPLE NO.						
01	SBLKBE	53421	19.35	41970	21.97	82562	5.59
02	SBELCS	124130	19.34	112777	21.97	84429	5.58
03	SS53-0-1	333624*	19.35	252698*	21.99	142614*	5.58
04	SS53-0-1MS	257990*	19.36	182038*	21.99	153580*	5.58
05	SS53-0-1MSD	324113*	19.37	229426*	22.00	160734*	5.59
06	SB55-00-2.5-3RE	317501*	19.36	264032*	21.99	130793*	5.59
07	SS54-0-1RE	284972*	19.40	213377*	22.00	92763	5.58
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E27013-CCV1A66 Date Analyzed: 05/27/10

Instrument ID: 5972HP66 Time Analyzed: 1610

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	158161	7.81	64901	11.23	103224	14.11
	UPPER LIMIT	316322	8.31	129802	11.73	206448	14.61
	LOWER LIMIT	79081	7.31	32451	10.73	51612	13.61
	CLIENT SAMPLE NO.						
01	SBLKBE	248470	7.82	92983	11.23	122675	14.11
02	SBELCS	261769	7.81	94371	11.23	138001	14.11
03	SS53-0-1	528693*	7.81	224536*	11.23	393801*	14.11
04	SS53-0-1MS	537120*	7.81	223539*	11.23	368807*	14.11
05	SS53-0-1MSD	556915*	7.82	247662*	11.23	442986*	14.11
06	SB55-00-2.5-3RE	441020*	7.82	203734*	11.24	356420*	14.11
07	SS54-0-1RE	316779*	7.83	98482	11.24	297289*	14.13
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E28002-CCV1C66 Date Analyzed: 05/28/10

Instrument ID: 5972HP66 Time Analyzed: 0356

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	189165	19.37	150432	22.00	64670	5.56
	UPPER LIMIT	378330	19.87	300864	22.50	129340	6.06
	LOWER LIMIT	94583	18.87	75216	21.50	32335	5.06
	CLIENT SAMPLE NO.						
01	SS55-00-01	159281	19.36	99720	22.01	56154	5.57
02	SB54-4-5	238720	19.36	177745	22.00	84249	5.57
03	SB53-7-8	243479	19.37	179403	22.00	107917	5.58
04	SS80-0-1	231011	19.37	159665	22.01	91946	5.57
05	SB80-3-4	222307	19.37	165303	22.00	102886	5.58
06	SS56-0-1	223023	19.37	154630	22.00	92331	5.57
07	SB56-3-4	213207	19.37	155530	22.00	88076	5.57
08	SS58-0-1	249522	19.37	192473	22.00	111967	5.57
09	SS52-0-1	208035	19.37	129855	22.01	57453	5.57
10	SS57-0-1	200668	19.37	108312	22.01	107600	5.58
11	SS60-00-01	302687	19.37	240328	22.02	116801	5.57
12	SS59-00-01	282722	19.38	207466	22.02	115545	5.58
13	SB59-9-10	182532	19.38	129859	22.02	83217	5.58
14	SS85-0-1	222652	19.38	162751	22.02	74280	5.59
15	SS89-0-1	196970	19.38	137344	22.01	83502	5.59
16	SS78-0-1	298351	19.40	235215	22.03	95575	5.58
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E28002-CCV1C66 Date Analyzed: 05/28/10

Instrument ID: 5972HP66 Time Analyzed: 0356

		IS4(NPT) AREA	#	RT	#	IS5(ANT) AREA	#	RT	#	IS6(PHN) AREA	#	RT	#
	12 HOUR STD	198198		7.81		107362		11.23		205329		14.13	
	UPPER LIMIT	396396		8.31		214724		11.73		410658		14.63	
	LOWER LIMIT	99099		7.31		53681		10.73		102665		13.63	
	CLIENT SAMPLE NO.												
01	SS55-00-01	171472		7.81		86512		11.23		179353		14.11	
02	SB54-4-5	259658		7.81		136238		11.24		254346		14.13	
03	SB53-7-8	347779		7.81		163388		11.23		292288		14.11	
04	SS80-0-1	295472		7.81		142435		11.23		263547		14.11	
05	SB80-3-4	315643		7.81		155505		11.23		275088		14.11	
06	SS56-0-1	287927		7.81		135268		11.23		254797		14.11	
07	SB56-3-4	279669		7.82		145468		11.23		264541		14.11	
08	SS58-0-1	358736		7.82		168625		11.23		317190		14.11	
09	SS52-0-1	171596		7.81		94918		11.23		222260		14.13	
10	SS57-0-1	335041		7.81		157086		11.24		263584		14.13	
11	SS60-00-01	386297		7.81		197216		11.24		362797		14.13	
12	SS59-00-01	369127		7.81		182060		11.23		349017		14.13	
13	SB59-9-10	234670		7.83		122476		11.24		225358		14.13	
14	SS85-0-1	218917		7.83		123059		11.24		253327		14.13	
15	SS89-0-1	247805		7.83		138885		11.24		256366		14.13	
16	SS78-0-1	324420		7.83		176002		11.24		349613		14.13	
17													
18													
19													
20													

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E28012-CCV1A66 Date Analyzed: 05/28/10

Instrument ID: 5972HP66 Time Analyzed: 2137

		IS1(CRY)		IS2(PRY)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	149301	19.34	133675	21.96	59565	5.54
	UPPER LIMIT	298602	19.84	267350	22.46	119130	6.04
	LOWER LIMIT	74651	18.84	66837	21.46	29783	5.04
	CLIENT SAMPLE NO.						
01	SB89-6.5-7.5	155530	19.33	140037	21.96	71612	5.55
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Lab File ID (Standard): 0E28012-CCV1A66 Date Analyzed: 05/28/10

Instrument ID: 5972HP66 Time Analyzed: 2137

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	213034	7.79	97077	11.22	176258	14.09
	UPPER LIMIT	426068	8.29	194154	11.72	352516	14.59
	LOWER LIMIT	106517	7.29	48539	10.72	88129	13.59
	CLIENT SAMPLE NO.						
01	SB89-6.5-7.5	244230	7.79	108173	11.20	184655	14.09
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I SV and Form I SV-TIC), followed by the raw data for semivolatile samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results (Form I SV)
   Tabulated results (identification and quantitation) shall be included.

b. Tentatively Identified Compounds (Form I SV-TIC)
   Lists the client specified number of organic compounds that are non-surrogate/non-internal standard compounds and are not listed on the target compound list. This form shall be included even if no compounds are found.

c. Reconstructed Ion Chromatograms
   Include for each sample or sample extract, including dilutions and reanalyses. The RIC shall contain the following header information: Client Sample ID number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.

d. Quantitation Report showing calculations for target analytes
   - Include a printout of the Enhanced Ion Current Profile (EICP) for all manual changes to all compounds, internal standards, and surrogate compounds.

e. Copies of raw spectra and copies of background-subtracted mass spectra of target analytes identified in the sample.
   - The spectra shall include the following information: Client Sample ID number, Lab file ID, date and time of analysis, and instrument ID.
   - The compound name must be clearly marked.

f. Quantitation Report showing calculations for TICs

g. Copies of mass spectra of organic compounds not listed on the target compound list (TICs) with associated best-match spectra.
   - The spectra shall be labeled as follows: Client Sample ID number, lab file ID, date and time of analysis, and instrument ID.
   - The compound name must be clearly marked.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB53-7-8

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-06
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-06JC66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

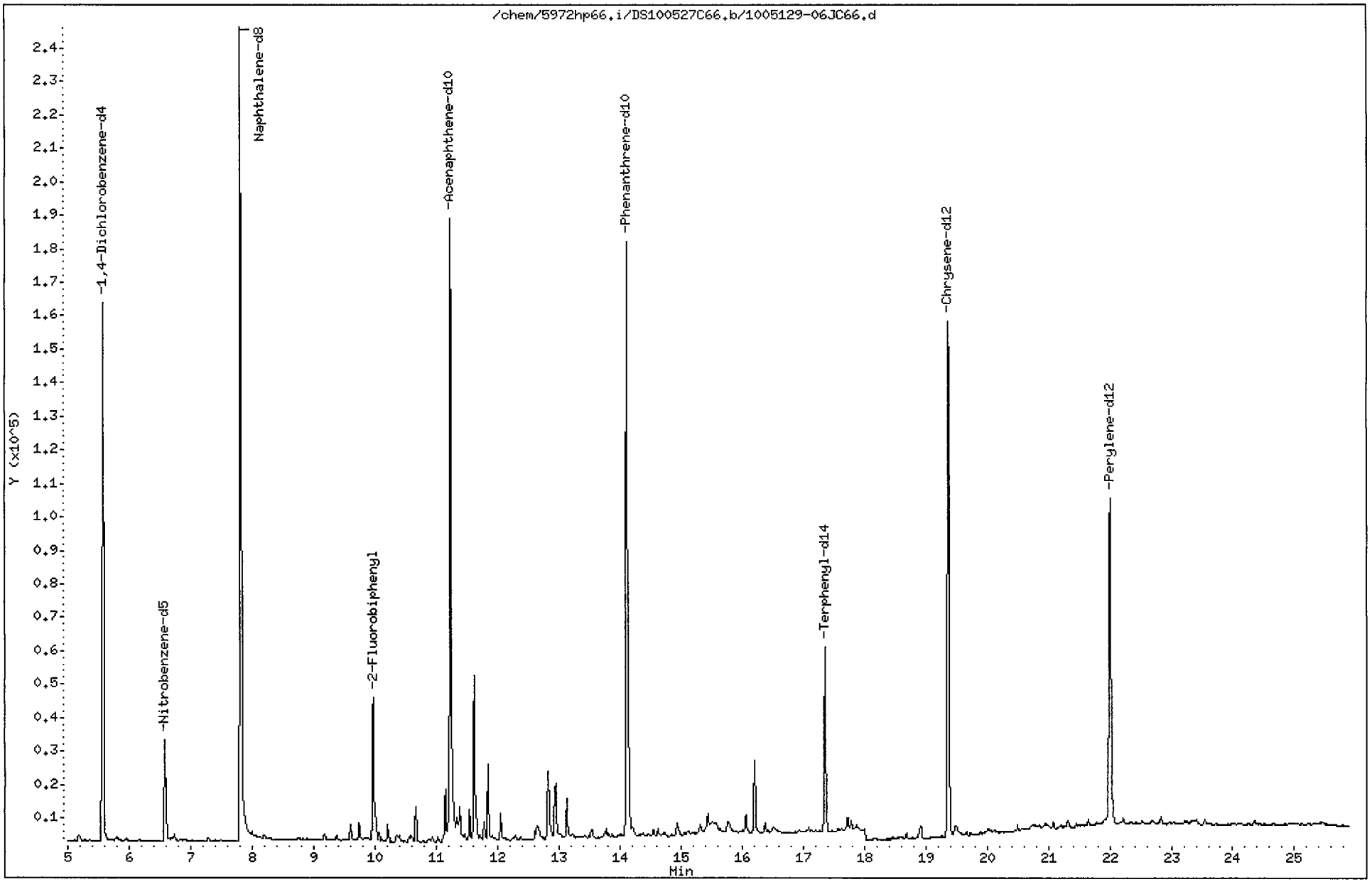
Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	ND	U
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-06JC66.d
Date : 28-MAY-2010 06:13
Client ID: SB53-7-8
Instrument: 5972hp66.i
Sample Info: 1005129-06:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-06JC66.d
Report Date: 02-Jun-2010 09:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-06JC66.d
Lab Smp Id: 1005129-06 Client Smp ID: SB53-7-8
Inj Date : 28-MAY-2010 06:13
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-06:2743
Misc Info : SB53-7-8
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	21.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1	1,4-Dichlorobenzene-d4	152	5.583	5.560	(1.000)	107917	2.00000		(a)
* 2	Naphthalene-d8	136	7.812	7.815	(1.000)	347779	2.00000		(a)
* 3	Acenaphthene-d10	164	11.230	11.231	(1.000)	163388	2.00000		(a)
* 4	Phenanthrene-d10	188	14.114	14.126	(1.000)	292288	2.00000		(a)
* 5	Chrysene-d12	240	19.370	19.371	(1.000)	243479	2.00000		(a)
* 6	Perylene-d12	264	22.004	22.004	(1.000)	179403	2.00000		(a)
$ 9	Nitrobenzene-d5	82	6.587	6.576	(0.843)	40341	0.52129	11	
$ 10	2-Fluorobiphenyl	172	9.976	9.978	(0.888)	79335	0.46531	9.8	
$ 12	Terphenyl-d14	244	17.360	17.372	(0.896)	71446	0.80761	17	
13	Naphthalene	128	Compound Not Detected.						
15	2-Methylnaphthalene	141	Compound Not Detected.						
17	Acenaphthylene	152	Compound Not Detected.						
18	Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-06JC66.d
Report Date: 02-Jun-2010 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB54-4-5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-04J2C66
Analyst: 2743

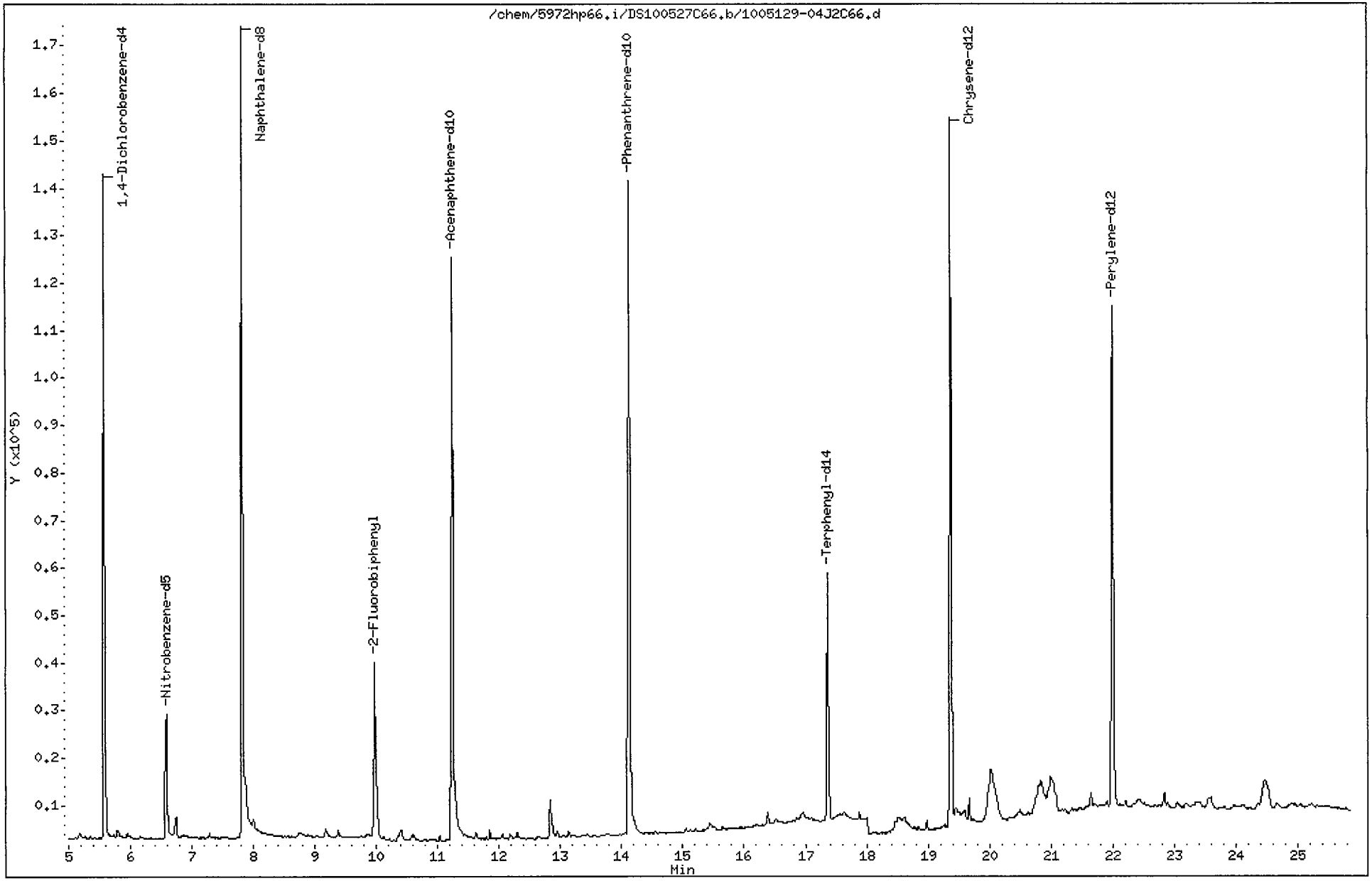
% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	ND	U
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.69	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-04J2C66.d
Date : 28-MAY-2010 05:39
Client ID: SB54-4-5
Instrument: 5972hp66.i
Sample Info: 1005129-04:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-04J2C66.d
Report Date: 02-Jun-2010 09:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-04J2C66.d
Lab Smp Id: 1005129-04 Client Smp ID: SB54-4-5
Inj Date : 28-MAY-2010 05:39
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-04:2743
Misc Info : SB54-4-5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	18.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.571	5.560	(1.000)	84249	2.00000	
*	2 Naphthalene-d8	136	7.814	7.815	(1.000)	259658	2.00000	
*	3 Acenaphthene-d10	164	11.243	11.231	(1.000)	136238	2.00000	
*	4 Phenanthrene-d10	188	14.127	14.126	(1.000)	254346	2.00000	
*	5 Chrysene-d12	240	19.363	19.371	(1.000)	238720	2.00000	
*	6 Perylene-d12	264	22.004	22.004	(1.000)	177745	2.00000	
$	9 Nitrobenzene-d5	82	6.588	6.576	(0.843)	36173	0.62606	13
$	10 2-Fluorobiphenyl	172	9.977	9.978	(0.887)	67818	0.47703	9.7
$	12 Terphenyl-d14	244	17.360	17.372	(0.897)	74029	0.85349	17
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-04J2C66.d
Report Date: 02-Jun-2010 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB55-00-2.5-3

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-02A66
Analyst: 2650

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

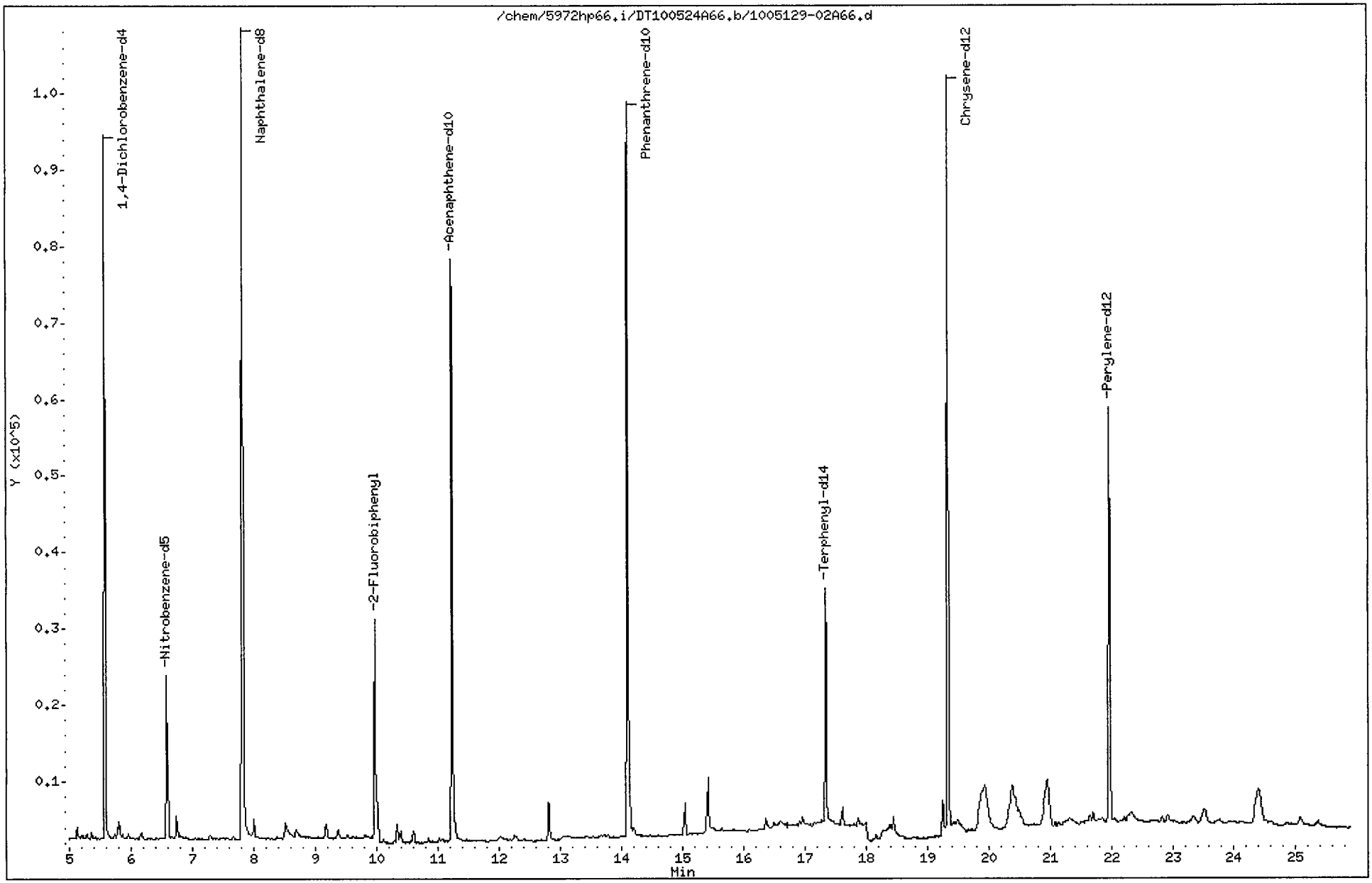
Date Extracted: 05/18/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DT100524A66.b/1005129-02A66.d
Date : 24-MAY-2010 21:45
Client ID: SB55-00-2.5-3
Instrument: 5972hp66.i
Sample Info: 1005129-02:2650
Volume Injected (uL): 2.0
Operator: 2650
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100524A66.b/1005129-02A66.d
Report Date: 01-Jun-2010 16:59

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100524A66.b/1005129-02A66.d
Lab Smp Id: 1005129-02 Client Smp ID: SB55-00-2.5-3
Inj Date : 24-MAY-2010 21:45
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 1005129-02:2650
Misc Info : SB55-00-2.5-3
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100524A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 14:52 byrd Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	20.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.584	5.569	(1.000)	52789	2.00000	
* 2	Naphthalene-d8	136	7.813	7.811	(1.000)	159091	2.00000	
* 3	Acenaphthene-d10	164	11.230	11.232	(1.000)	66003	2.00000	
* 4	Phenanthrene-d10	188	14.114	14.100	(1.000)	151654	2.00000	
* 5	Chrysene-d12	240	19.344	19.336	(1.000)	129189	2.00000	
* 6	Perylene-d12	264	21.972	21.960	(1.000)	74504	2.00000	
$ 9	Nitrobenzene-d5	82	6.588	6.573	(0.843)	21710	0.65537	14
$ 10	2-Fluorobiphenyl	172	9.977	9.975	(0.888)	41669	0.56240	12
$ 12	Terphenyl-d14	244	17.347	17.346	(0.897)	38693	1.21770	25
13	Naphthalene	128	Compound Not Detected.					
15	2-Methylnaphthalene	141	Compound Not Detected.					
17	Acenaphthylene	152	Compound Not Detected.					
18	Acenaphthene	154	Compound Not Detected.					

06/1.10

Data File: /chem/5972hp66.i/DT100524A66.b/1005129-02A66.d
Report Date: 01-Jun-2010 16:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB55-00-2.5-3RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-02JA66
Analyst: 2730

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

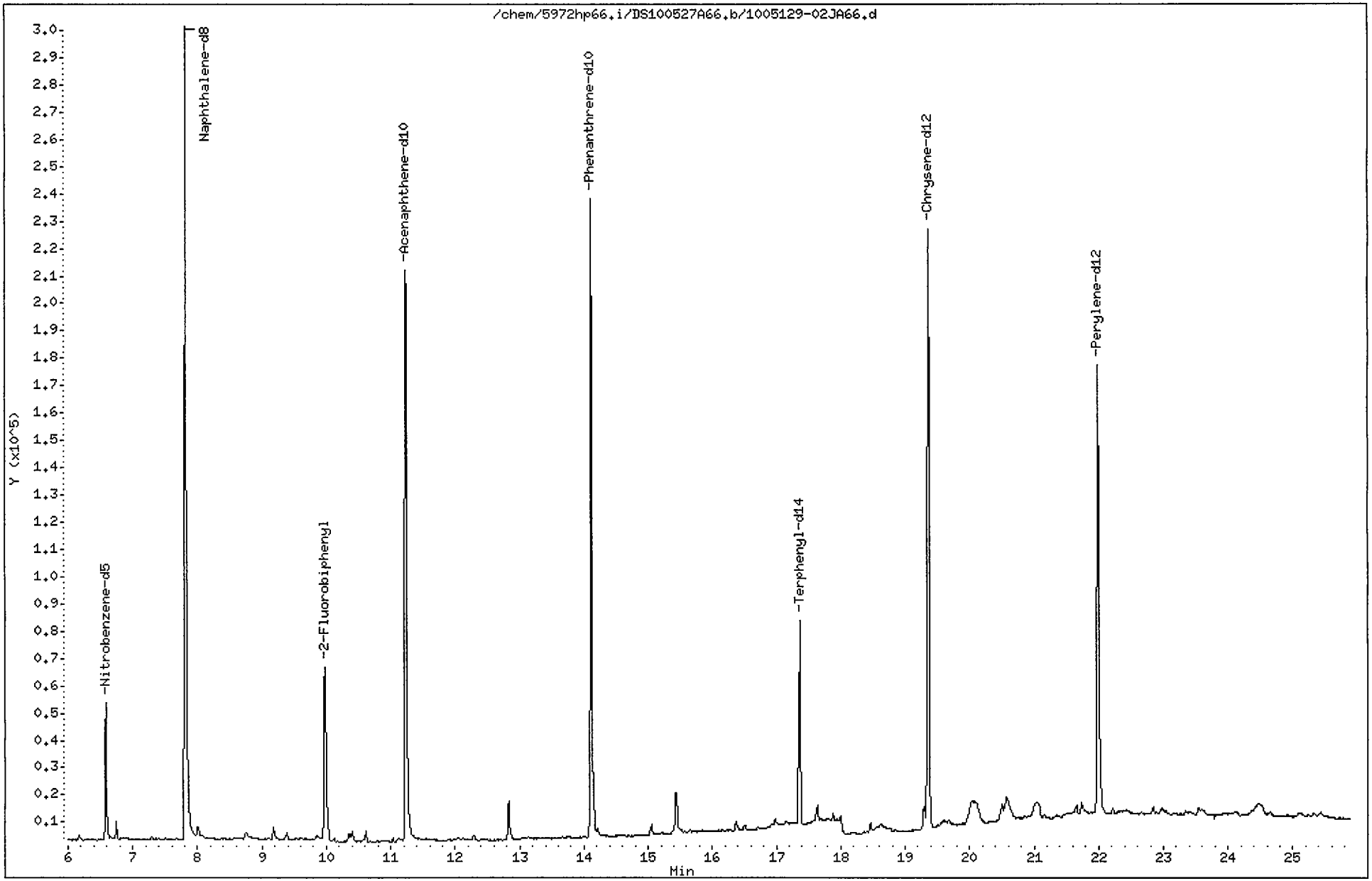
Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527A66.b/1005129-02JA66.d
Date : 27-MAY-2010 21:51
Client ID: SB55-00-2.5-3RE
Instrument: 5972hp66.i
Sample Info: 1005129-02:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527A66.b/1005129-02JA66.d
Report Date: 01-Jun-2010 16:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527A66.b/1005129-02JA66.d
Lab Smp Id: 1005129-02 Client Smp ID: SB55-00-2.5-3RE
Inj Date : 27-MAY-2010 21:51
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005129-02:2730
Misc Info : SB55-00-2.5-3
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 16:49 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	20.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.586	5.557	(1.000)	130793	2.00000		
* 2 Naphthalene-d8	136	7.815	7.812	(1.000)	441020	2.00000		
* 3 Acenaphthene-d10	164	11.243	11.230	(1.000)	203734	2.00000		
* 4 Phenanthrene-d10	188	14.114	14.114	(1.000)	356420	2.00000		
* 5 Chrysene-d12	240	19.362	19.344	(1.000)	317501	2.00000		
* 6 Perylene-d12	264	21.994	21.972	(1.000)	264032	2.00000		
$ 9 Nitrobenzene-d5	82	6.590	6.574	(0.843)	59621	0.60754		13
$ 10 2-Fluorobiphenyl	172	9.979	9.963	(0.888)	112102	0.52729		11
$ 12 Terphenyl-d14	244	17.361	17.347	(0.897)	92800	0.80443		17
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

6/1/10

Data File: /chem/5972hp66.i/DS100527A66.b/1005129-02JA66.d
Report Date: 01-Jun-2010 16:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB56-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-10
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-10JC66
Analyst: 2743

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

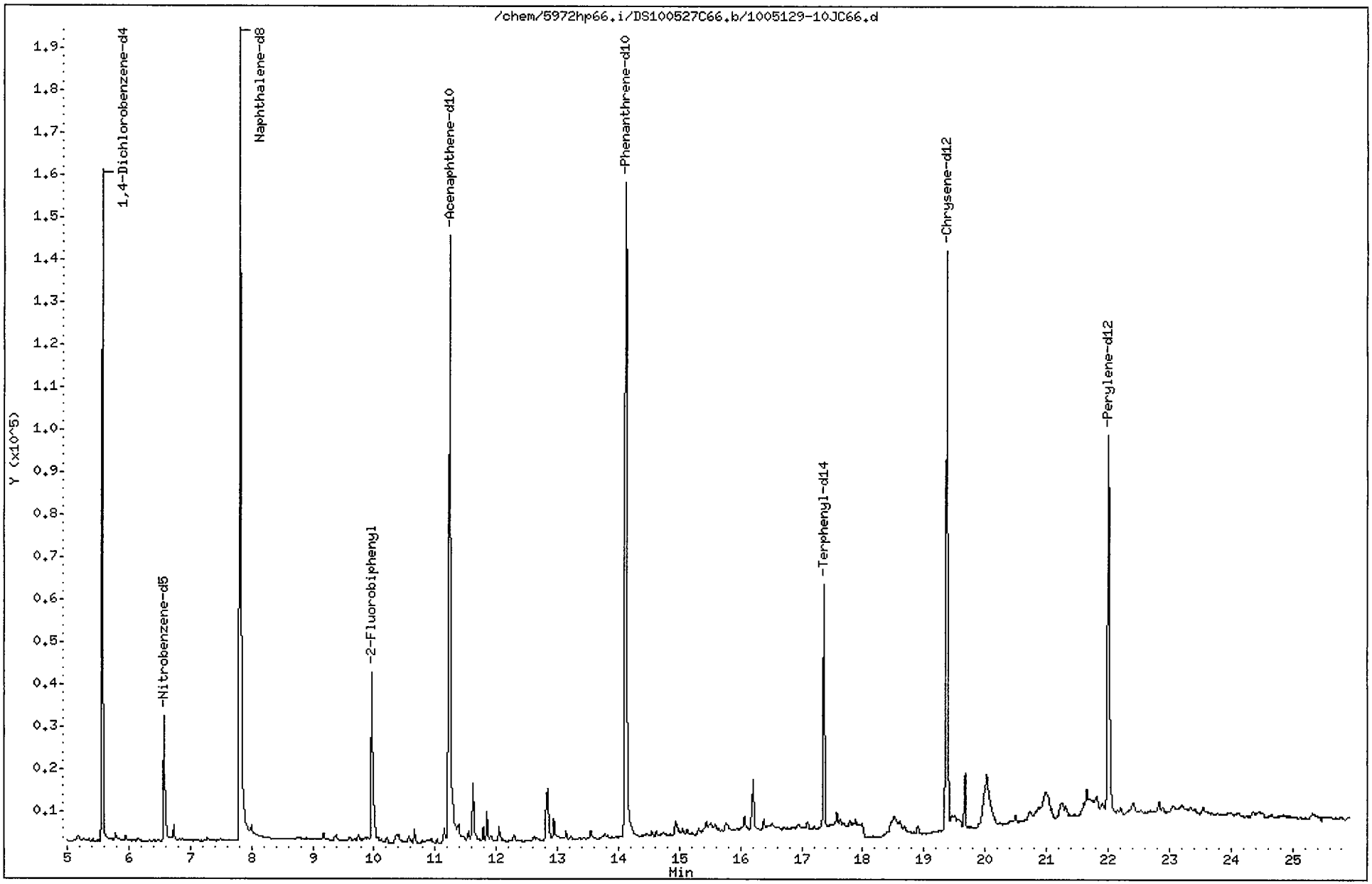
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	ND	U
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.69	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-10JC66.d
Date : 28-MAY-2010 08:29
Client ID: SB56-3-4
Sample Info: 1005129-10;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-10JC66.d
Report Date: 02-Jun-2010 10:12

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-10JC66.d
Lab Smp Id: 1005129-10 Client Smp ID: SB56-3-4
Inj Date : 28-MAY-2010 08:29
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-10:2743
Misc Info : SB56-3-4
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	18.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.573	5.560	(1.000)	88076	2.00000	
* 2 Naphthalene-d8	136	7.815	7.815	(1.000)	279669	2.00000	(M)
* 3 Acenaphthene-d10	164	11.231	11.231	(1.000)	145468	2.00000	
* 4 Phenanthrene-d10	188	14.114	14.126	(1.000)	264541	2.00000	
* 5 Chrysene-d12	240	19.371	19.371	(1.000)	213207	2.00000	
* 6 Perylene-d12	264	22.005	22.004	(1.000)	155530	2.00000	
$ 9 Nitrobenzene-d5	82	6.577	6.576	(0.842)	35887	0.57667	12
$ 10 2-Fluorobiphenyl	172	9.966	9.978	(0.887)	68250	0.44961	9.1(R)
$ 12 Terphenyl-d14	244	17.361	17.372	(0.896)	76800	0.99139	20
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

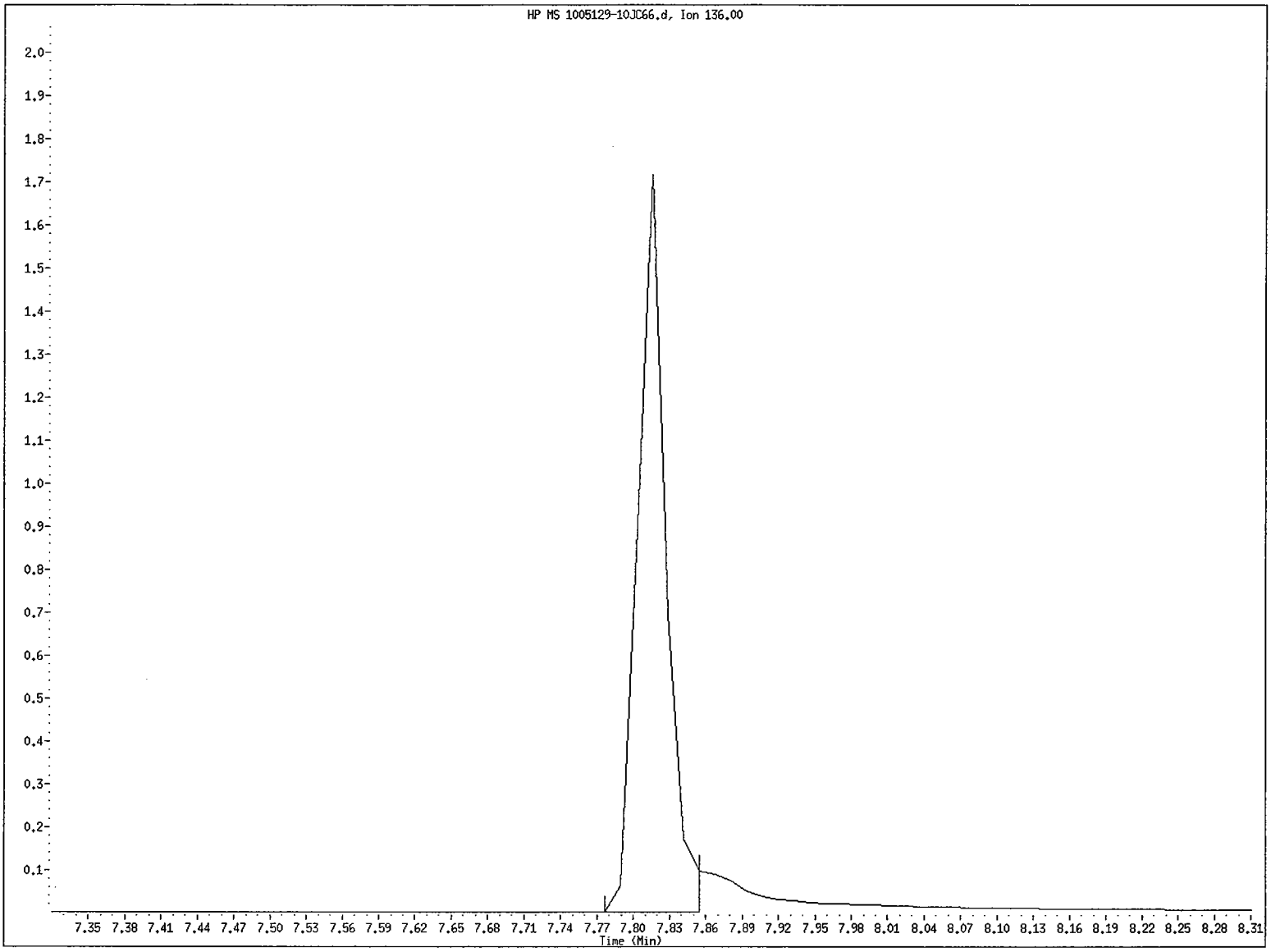
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-10JC66.d
Report Date: 02-Jun-2010 10:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

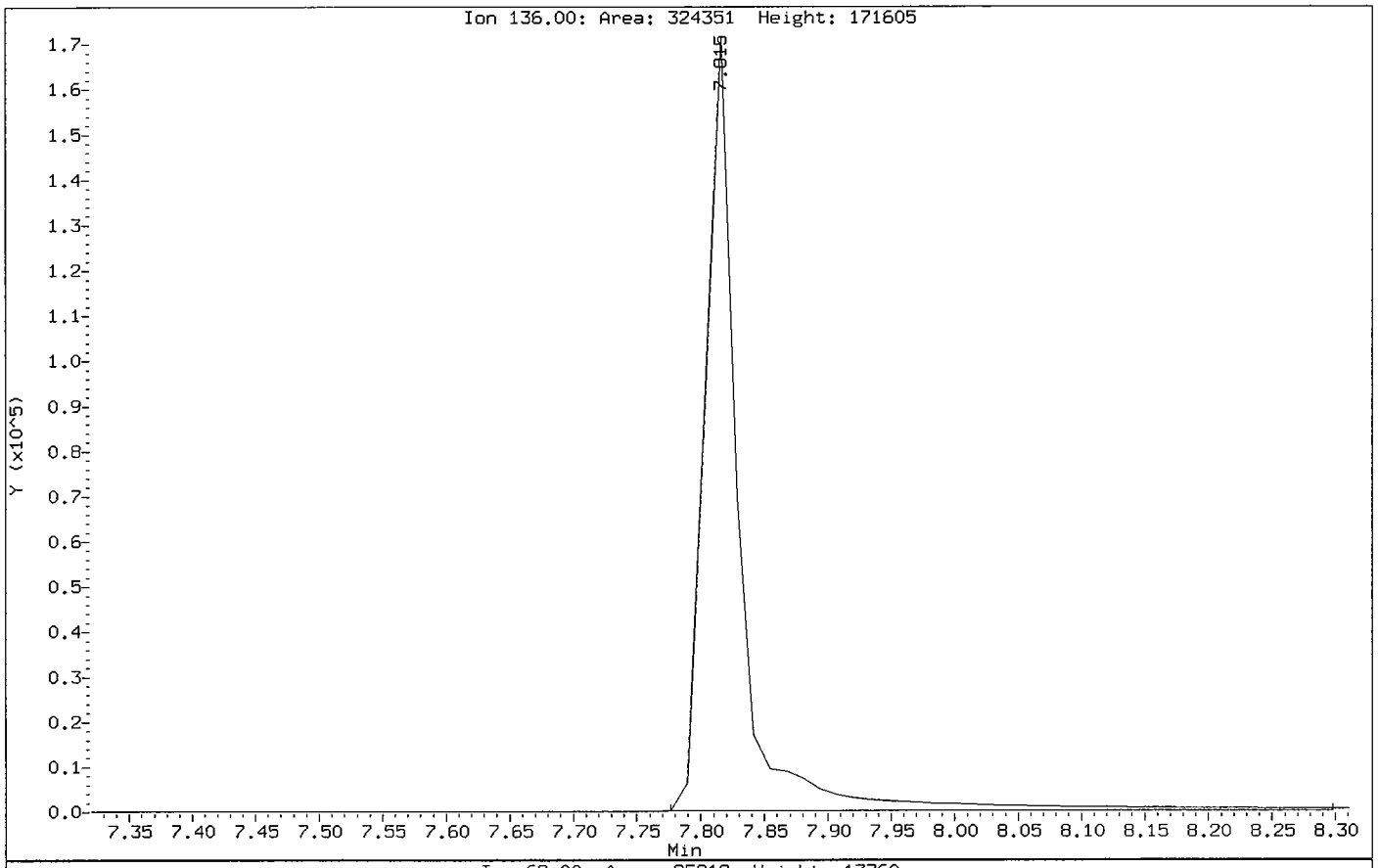
Naphthalene-d8 CAS Number 1146-65-2 Area = 279669 Manually integrated

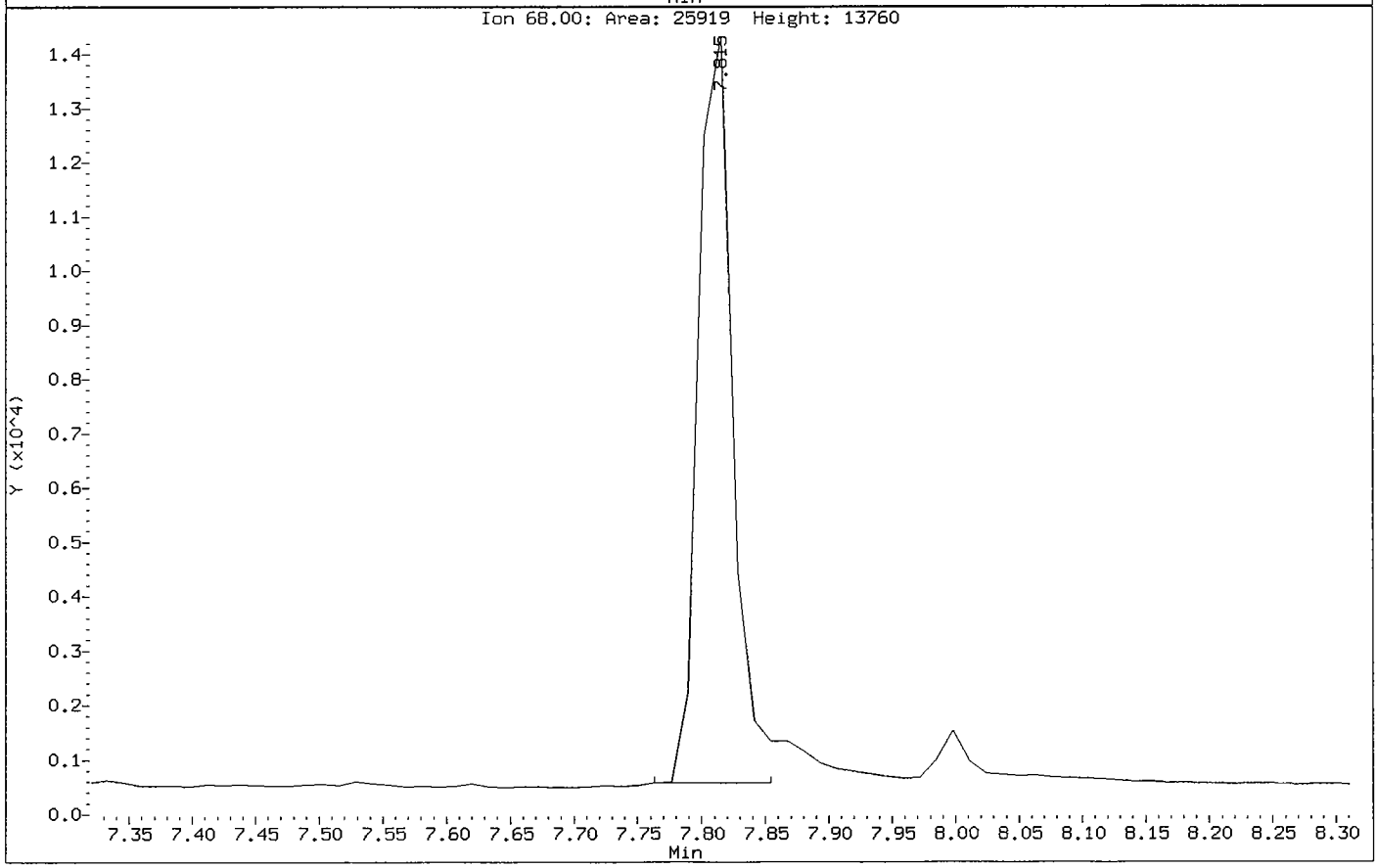


File name: /chem/5972hp66.i/DS100527C66.b/1005129-10JC66.d
Client ID: SB56-3-4
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 08:29
Retention Time: 7.82
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-10JC66.d
Injection Date: 28-MAY-2010 08:29
Instrument: 5972hp66.i
Client Sample ID: SB56-3-4

Compound: Naphthalene-d8
CAS Number: 1146-65-2





1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB59-9-10

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-16
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-16C66
Analyst: 2743

% Moisture: 22 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

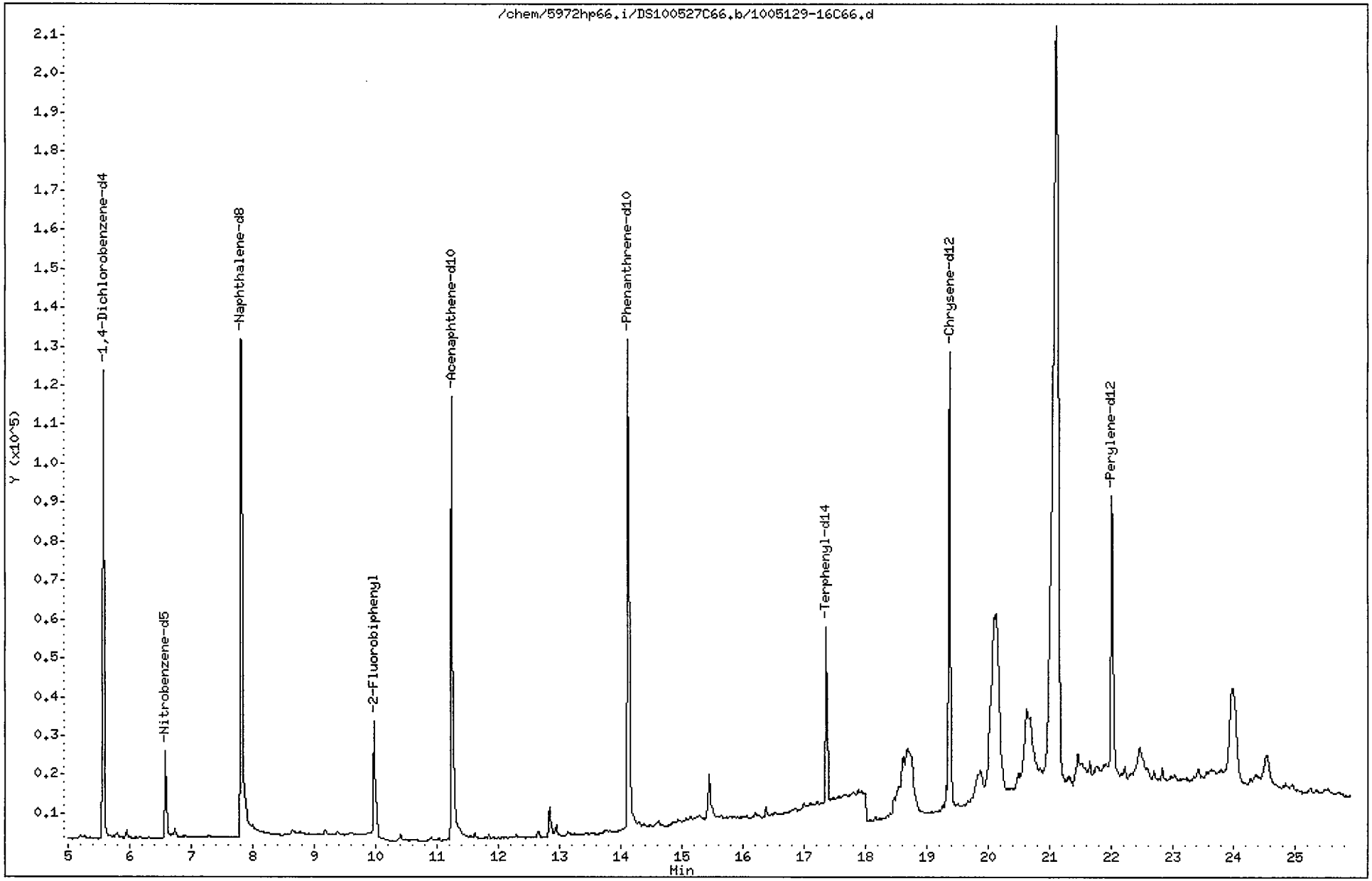
Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.92	11	ND	U
91-57-6	2-Methylnaphthalene	0.88	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.77	11	ND	U
86-73-7	Fluorene	0.58	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.56	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.73	11	ND	U
56-55-3	Benzo(a)anthracene	0.73	11	ND	U
218-01-9	Chrysene	0.81	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.73	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.56	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.47	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.43	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-16C66.d
Date : 28-MAY-2010 11:53
Client ID: SB59-9-10
Instrument: 5972hp66.i
Sample Info: 1005129-16;2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-16C66.d
Report Date: 02-Jun-2010 11:01

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-16C66.d
Lab Smp Id: 1005129-16 Client Smp ID: SB59-9-10
Inj Date : 28-MAY-2010 11:53
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-16:2743
Misc Info : SB59-9-10
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	22.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.583	5.560	(1.000)	83217	2.00000	
*	2 Naphthalene-d8	136	7.825	7.815	(1.000)	234670	2.00000	
*	3 Acenaphthene-d10	164	11.243	11.231	(1.000)	122476	2.00000	
*	4 Phenanthrene-d10	188	14.127	14.126	(1.000)	225358	2.00000	
*	5 Chrysene-d12	240	19.379	19.371	(1.000)	182532	2.00000	
*	6 Perylene-d12	264	22.015	22.004	(1.000)	129859	2.00000	
$	9 Nitrobenzene-d5	82	6.587	6.576	(0.842)	28075	0.53764	11
$	10 2-Fluorobiphenyl	172	9.976	9.978	(0.887)	49462	0.38701	8.3(R)
$	12 Terphenyl-d14	244	17.373	17.372	(0.896)	61545	0.92798	20
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

6/2/10

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-16C66.d
Report Date: 02-Jun-2010 11:01

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB80-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-08
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-08JC66
Analyst: 2743

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

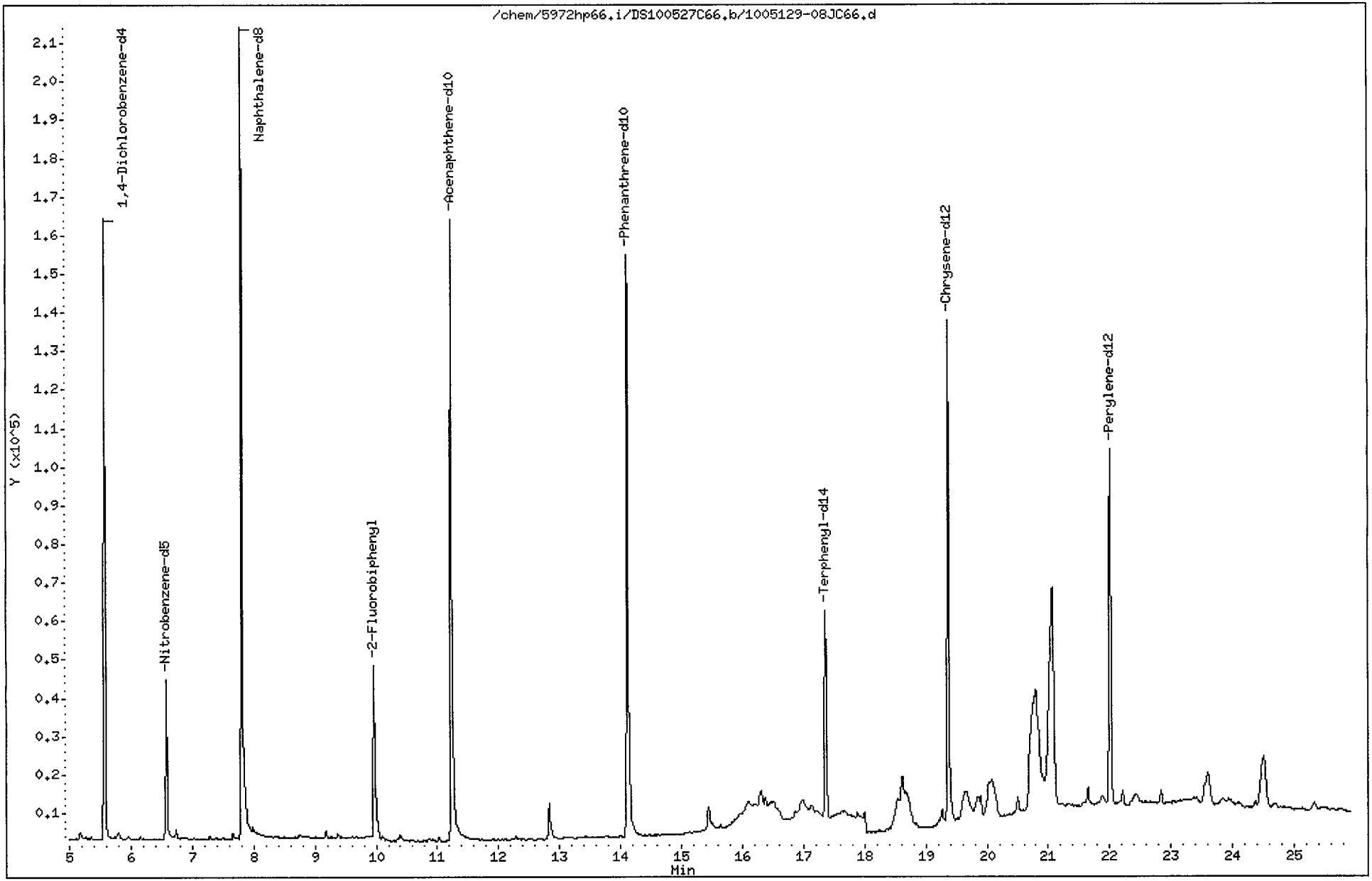
Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-08JC66.d
Date : 28-MAY-2010 07:21
Client ID: SB80-3-4
Sample Info: 1005129-08:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-08JC66.d
Report Date: 02-Jun-2010 10:12

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-08JC66.d
Lab Smp Id: 1005129-08 Client Smp ID: SB80-3-4
Inj Date : 28-MAY-2010 07:21
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-08:2743
Misc Info : SB80-3-4
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	14.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.583	5.560	(1.000)	102886	2.00000		
* 2 Naphthalene-d8	136	7.812	7.815	(1.000)	315643	2.00000		(M) 2 ppb/lab
* 3 Acenaphthene-d10	164	11.232	11.231	(1.000)	155505	2.00000		
* 4 Phenanthrene-d10	188	14.113	14.126	(1.000)	275088	2.00000		
* 5 Chrysene-d12	240	19.371	19.371	(1.000)	222307	2.00000		
* 6 Perylene-d12	264	22.004	22.004	(1.000)	165303	2.00000		
$ 9 Nitrobenzene-d5	82	6.586	6.576	(0.843)	50350	0.71686	14	
$ 10 2-Fluorobiphenyl	172	9.975	9.978	(0.888)	72687	0.44793	8.7(R)	
$ 12 Terphenyl-d14	244	17.359	17.372	(0.896)	76448	0.94645	18	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

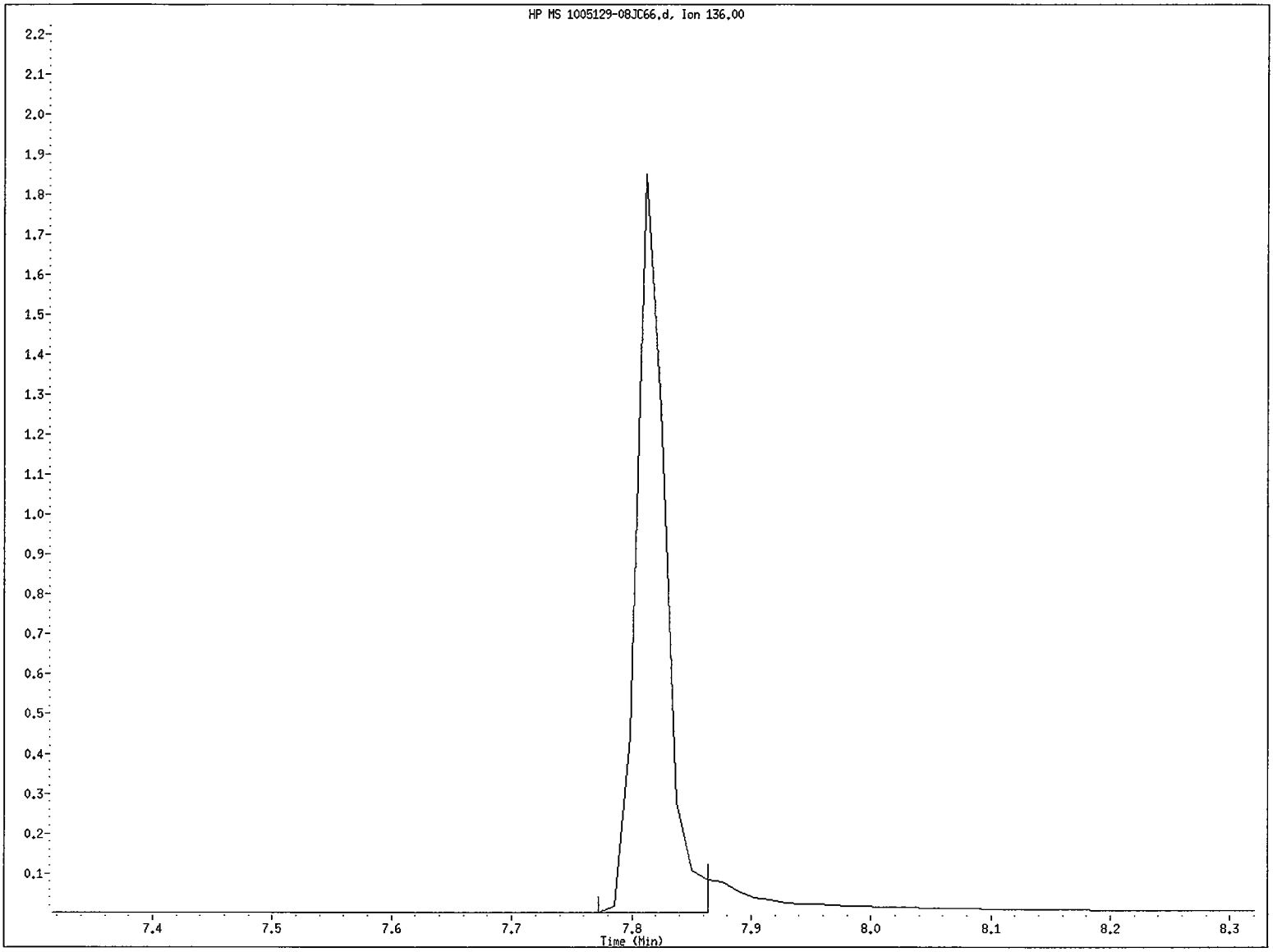
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-08JC66.d
Report Date: 02-Jun-2010 10:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

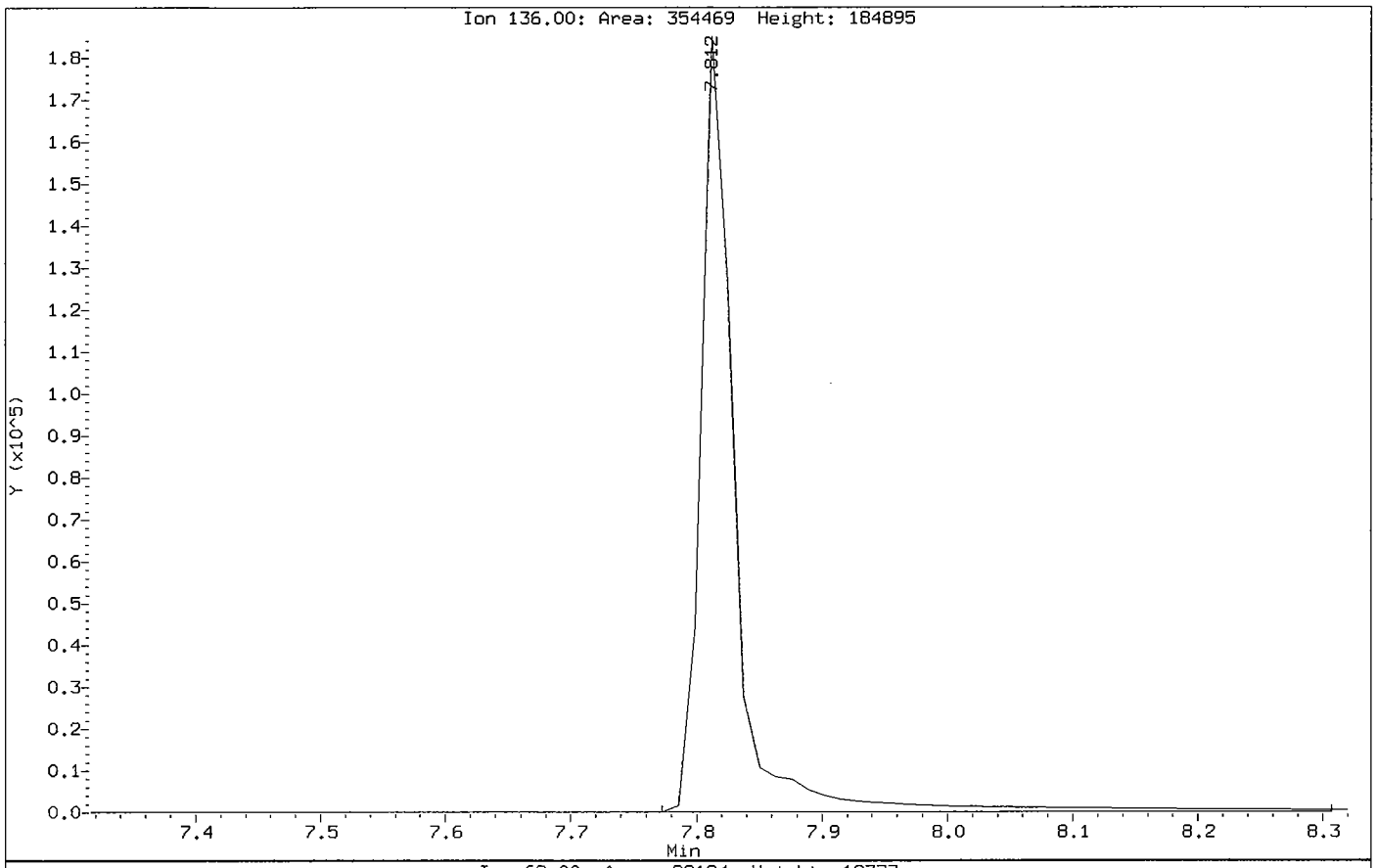
Naphthalene-d8 CAS Number 1146-65-2 Area = 315643 Manually integrated

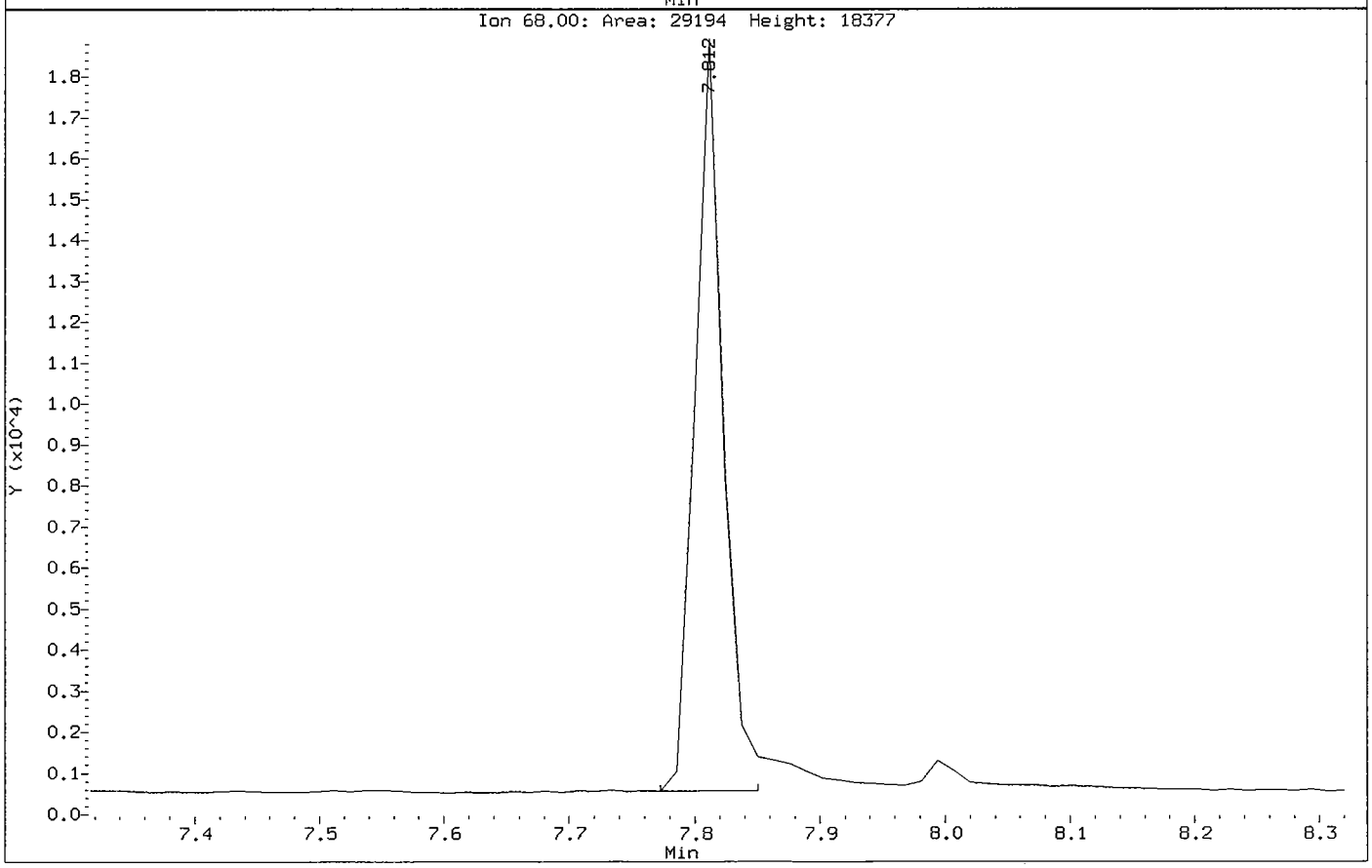


File name: /chem/5972hp66.i/DS100527C66.b/1005129-08JC66.d
Client ID: SB80-3-4
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 07:21
Retention Time: 7.81
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-08JC66.d
Injection Date: 28-MAY-2010 07:21
Instrument: 5972hp66.i
Client Sample ID: SB80-3-4

Compound: Naphthalene-d8
CAS Number: 1146-65-2





1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SB89-6.5-7.5

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-19
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-19JA66
Analyst: 2730

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

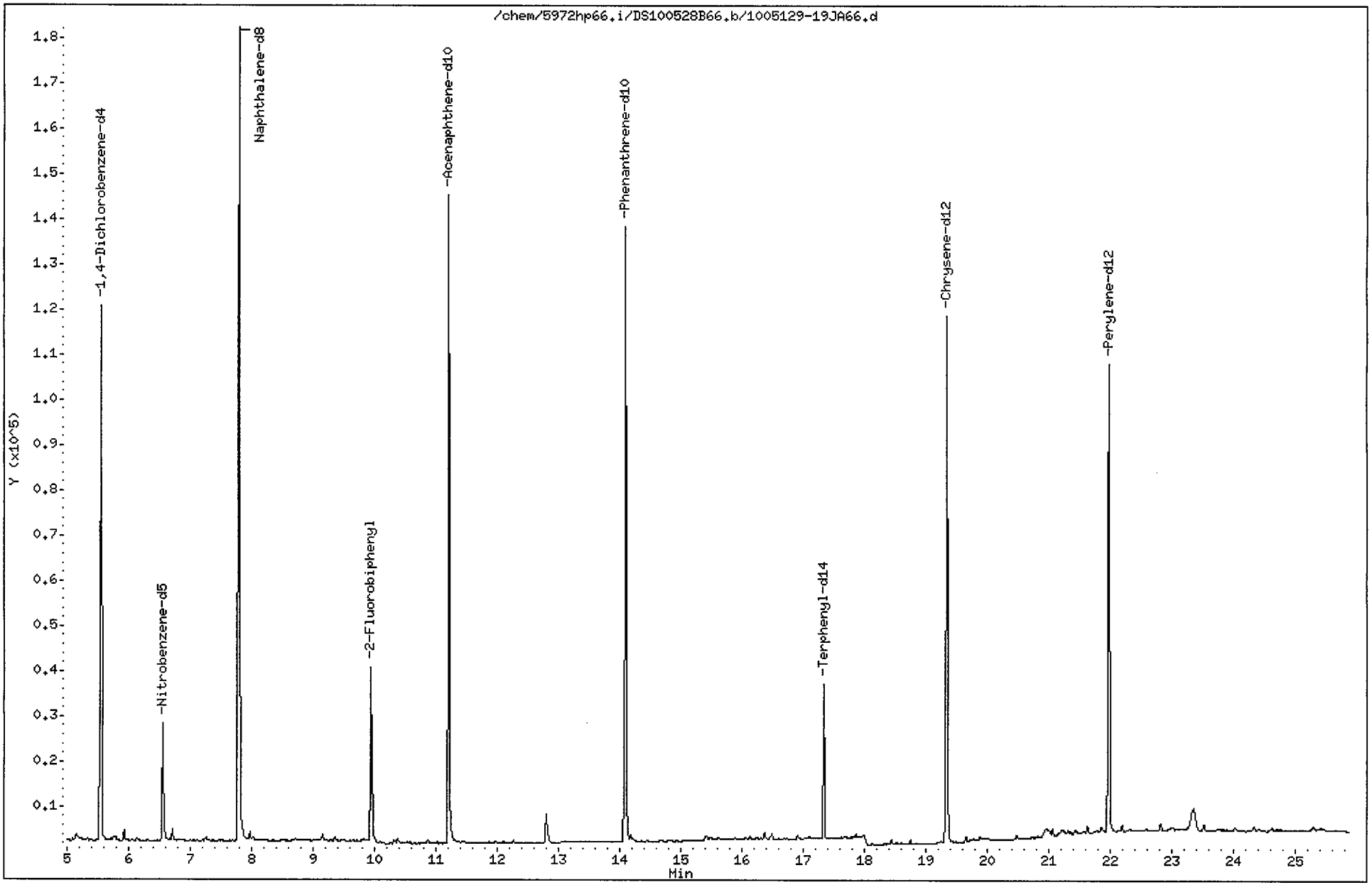
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	ND	U
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	ND	U
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	ND	U
120-12-7	Anthracene	0.48	9.2	ND	U
206-44-0	Fluoranthene	1.5	9.2	ND	U
129-00-0	Pyrene	0.63	9.2	ND	U
56-55-3	Benzo(a)anthracene	0.63	9.2	ND	U
218-01-9	Chrysene	0.70	9.2	ND	U
205-99-2	Benzo(b)fluoranthene	0.63	9.2	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.2	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.2	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100528B66.b/1005129-19JA66.d
Date : 28-MAY-2010 22:45
Client ID: SB89-6.5-7.5
Sample Info: 1005129-19:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100528B66.b/1005129-19JA66.d
Report Date: 02-Jun-2010 11:03

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100528B66.b/1005129-19JA66.d
Lab Smp Id: 1005129-19 Client Smp ID: SB89-6.5-7.5
Inj Date : 28-MAY-2010 22:45
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005129-19:2730
Misc Info : SB89-6.5-7.5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100528B66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:03 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	10.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.548	5.544	(1.000)	71612	2.00000	
*	2 Naphthalene-d8	136	7.790	7.786	(1.000)	244230	2.00000	
*	3 Acenaphthene-d10	164	11.205	11.217	(1.000)	108173	2.00000	
*	4 Phenanthrene-d10	188	14.088	14.088	(1.000)	184655	2.00000	
*	5 Chrysene-d12	240	19.327	19.337	(1.000)	155530	2.00000	
*	6 Perylene-d12	264	21.961	21.961	(1.000)	140037	2.00000	
$	9 Nitrobenzene-d5	82	6.552	6.548	(0.841)	29290	0.53896	10
$	10 2-Fluorobiphenyl	172	9.941	9.950	(0.887)	50882	0.45076	8.3
$	12 Terphenyl-d14	244	17.334	17.334	(0.897)	40617	0.71875	13
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

m/z/o

Data File: /chem/5972hp66.i/DS100528B66.b/1005129-19JA66.d
Report Date: 02-Jun-2010 11:03

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS52-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-12
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-12C66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

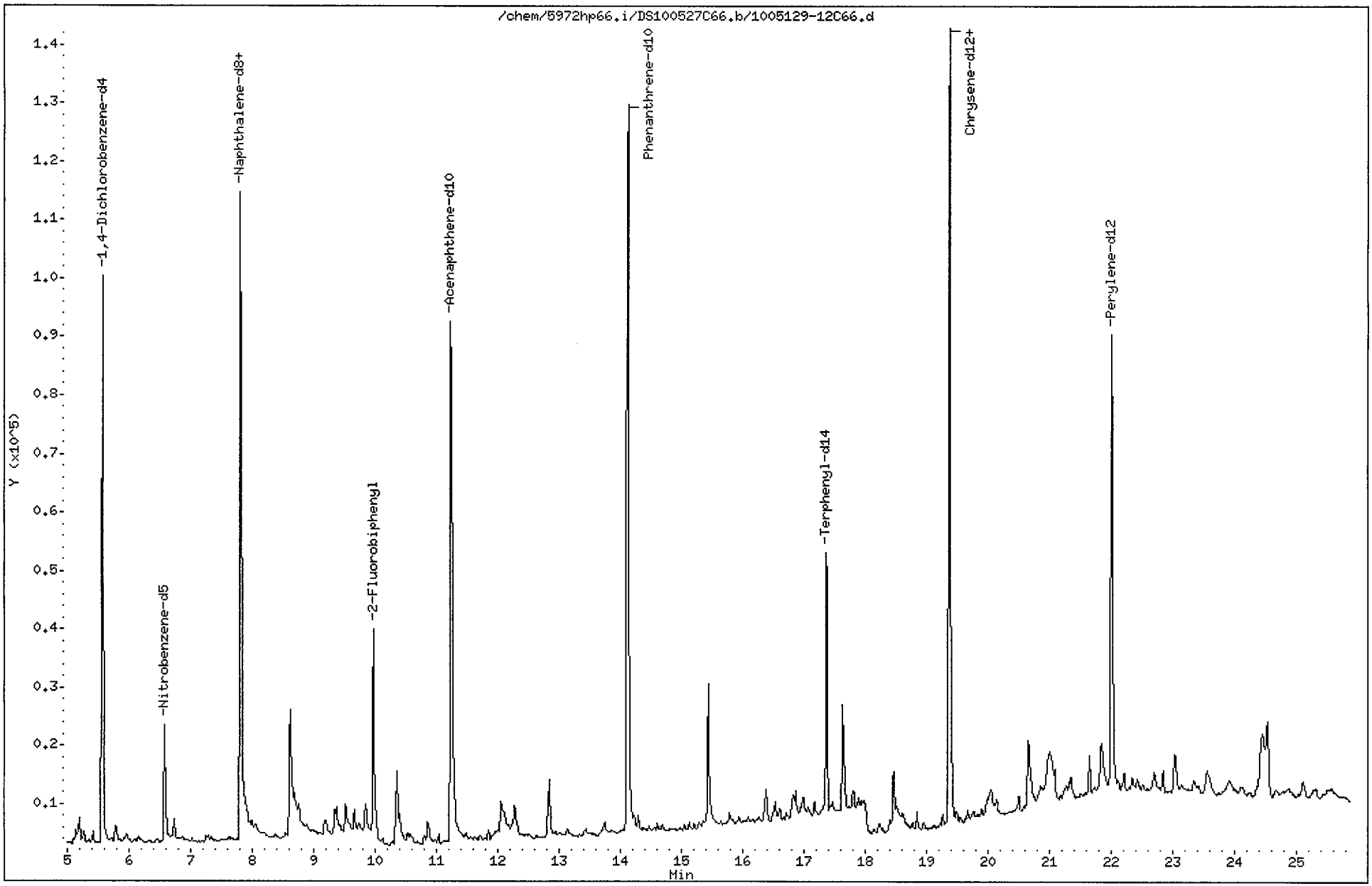
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	0.92	J
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	0.80	J
205-99-2	Benzo(b)fluoranthene	0.71	10	1.3	JX
207-08-9	Benzo(k)fluoranthene	0.54	10	1.2	JX
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Date : 28-MAY-2010 09:37
Client ID: SS52-0-1
Sample Info: 1005129-12:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Report Date: 02-Jun-2010 09:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Lab Smp Id: 1005129-12 Client Smp ID: SS52-0-1
Inj Date : 28-MAY-2010 09:37
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-12:2743
Misc Info : SS52-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	20.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.569	5.560	(1.000)	57453	2.00000	
* 2 Naphthalene-d8	136	7.811	7.815	(1.000)	171596	2.00000	
* 3 Acenaphthene-d10	164	11.231	11.231	(1.000)	94918	2.00000	
* 4 Phenanthrene-d10	188	14.126	14.126	(1.000)	222260	2.00000	
* 5 Chrysene-d12	240	19.370	19.371	(1.000)	208035	2.00000	
* 6 Perylene-d12	264	22.005	22.004	(1.000)	129855	2.00000	
$ 9 Nitrobenzene-d5	82	6.573	6.576	(0.841)	28725	0.75229	16
$ 10 2-Fluorobiphenyl	172	9.975	9.978	(0.888)	50288	0.50771	11
$ 12 Terphenyl-d14	244	17.372	17.372	(0.897)	66237	0.87629	18
13 Naphthalene	128	7.850	7.841	(1.005)	4710	0.04438	0.92(a)
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

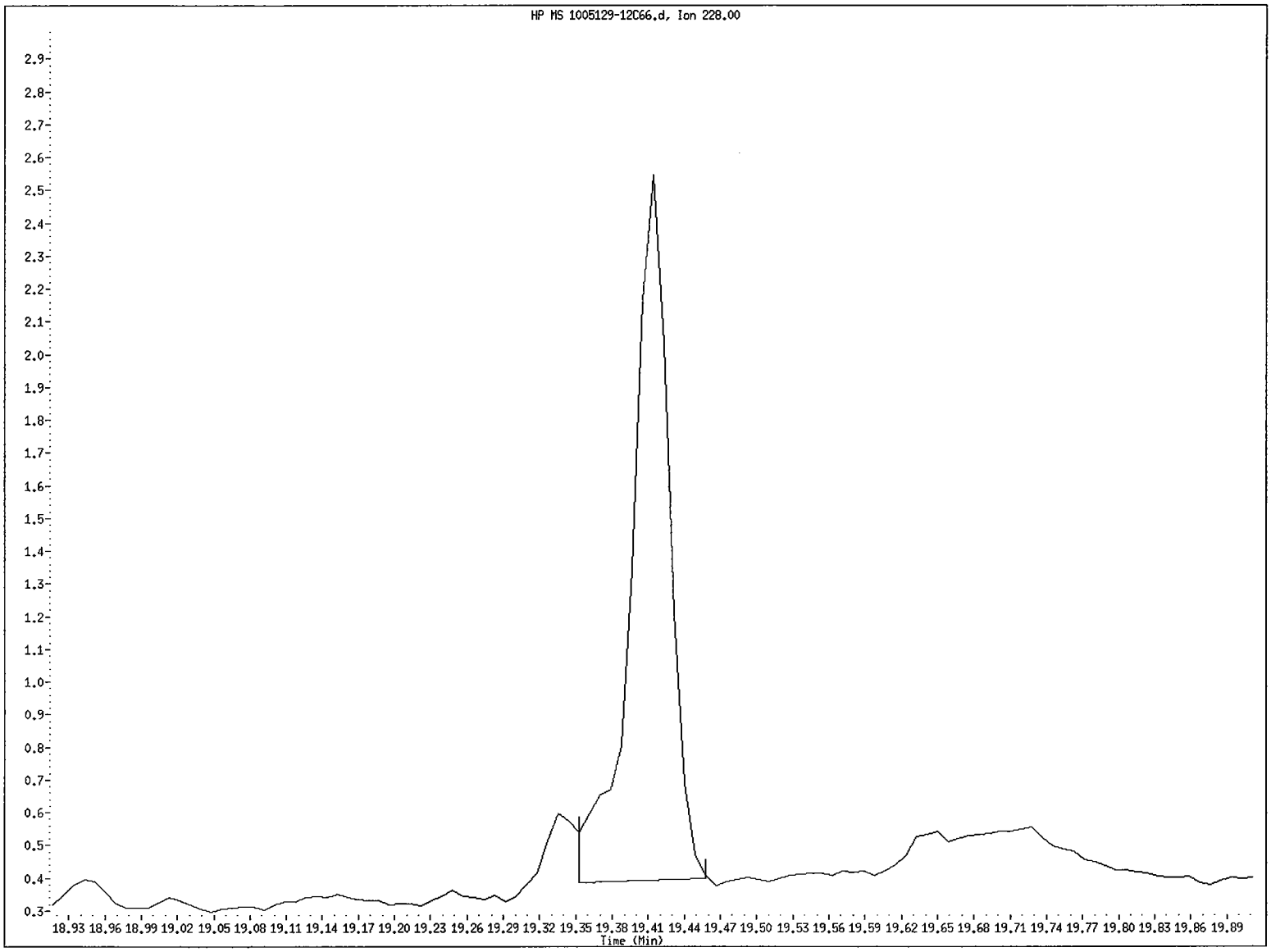
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Report Date: 02-Jun-2010 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	19.414	19.414	(1.002)	4726	0.03858	0.80(aM)
31 Benzo(b)fluoranthene	252	21.352	21.351	(0.970)	5363	0.06262	1.3(aM)
32 Benzo(k)fluoranthene	252	21.352	21.383	(0.970)	5363	0.05819	1.2(aM)
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

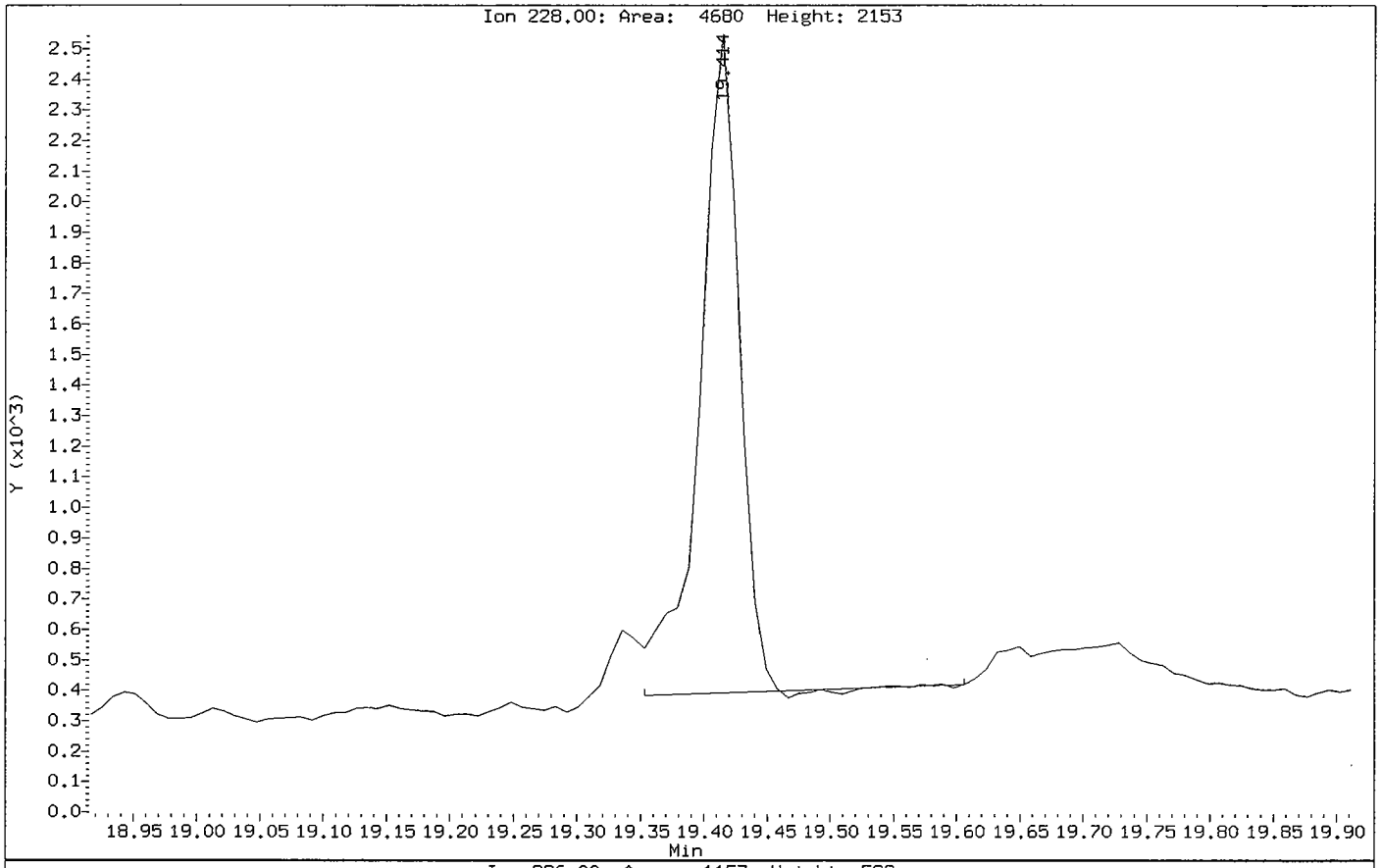
Chrysene CAS Number 218-01-9 Area = 4726 Manually integrated

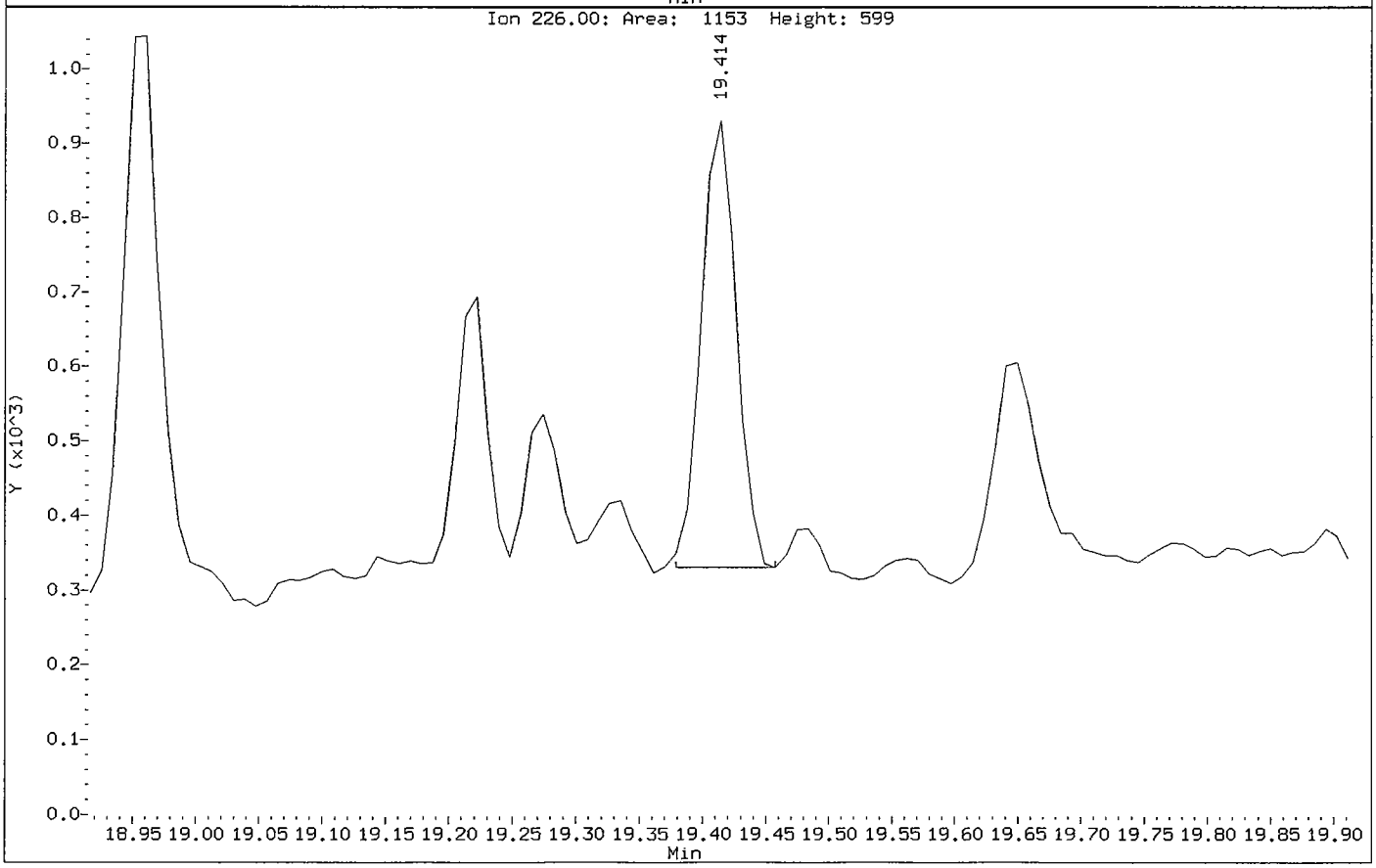


File name: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Client ID: SS52-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 09:37
Retention Time: 19.41
Operator ID: 2743

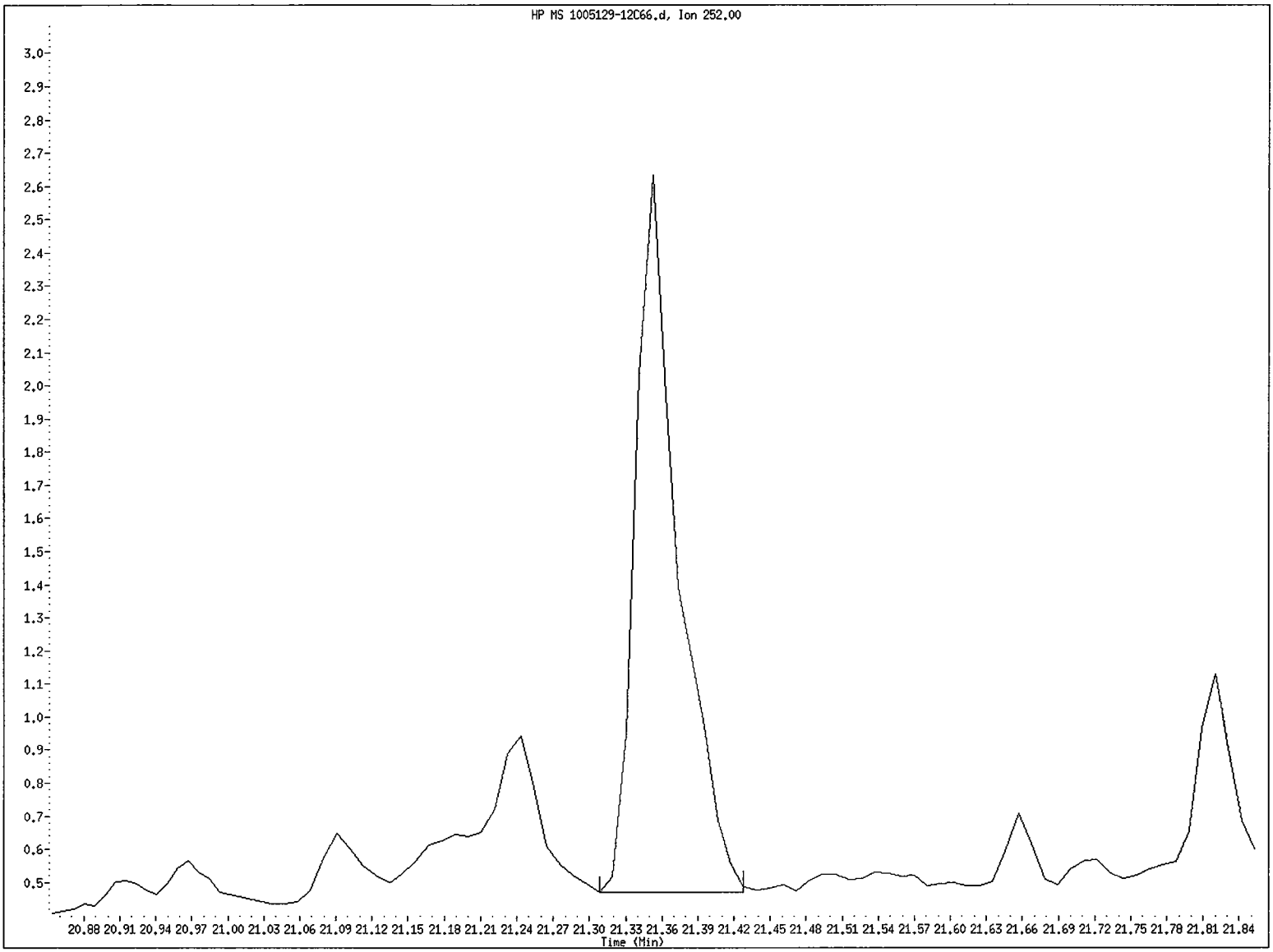
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Injection Date: 28-MAY-2010 09:37
Instrument: 5972hp66.i
Client Sample ID: SS52-0-1

Compound: Chrysene
CAS Number: 218-01-9





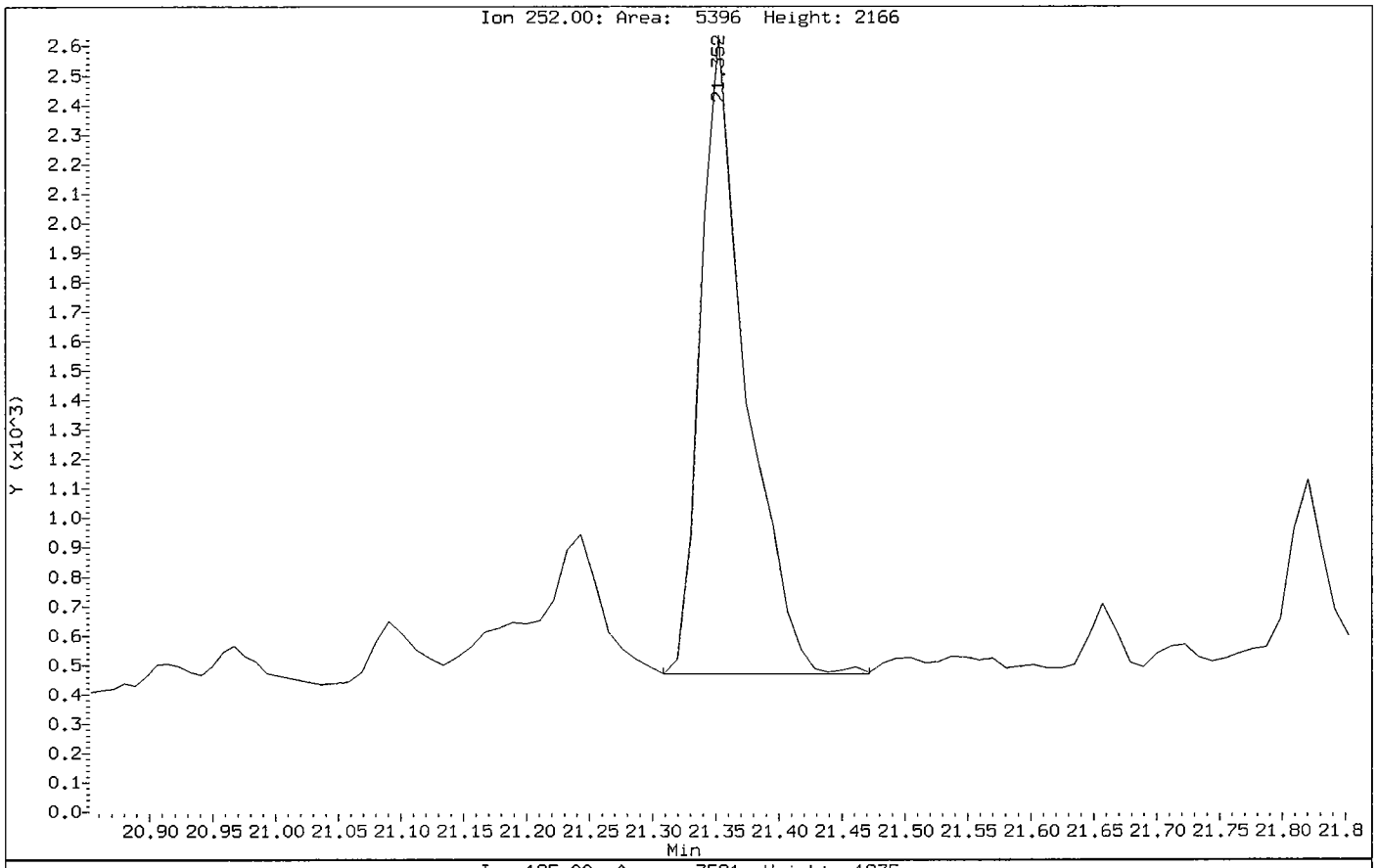
Benzo(b)fluoranthene CAS Number 205-99-2 Area = 5363 Manually integrated

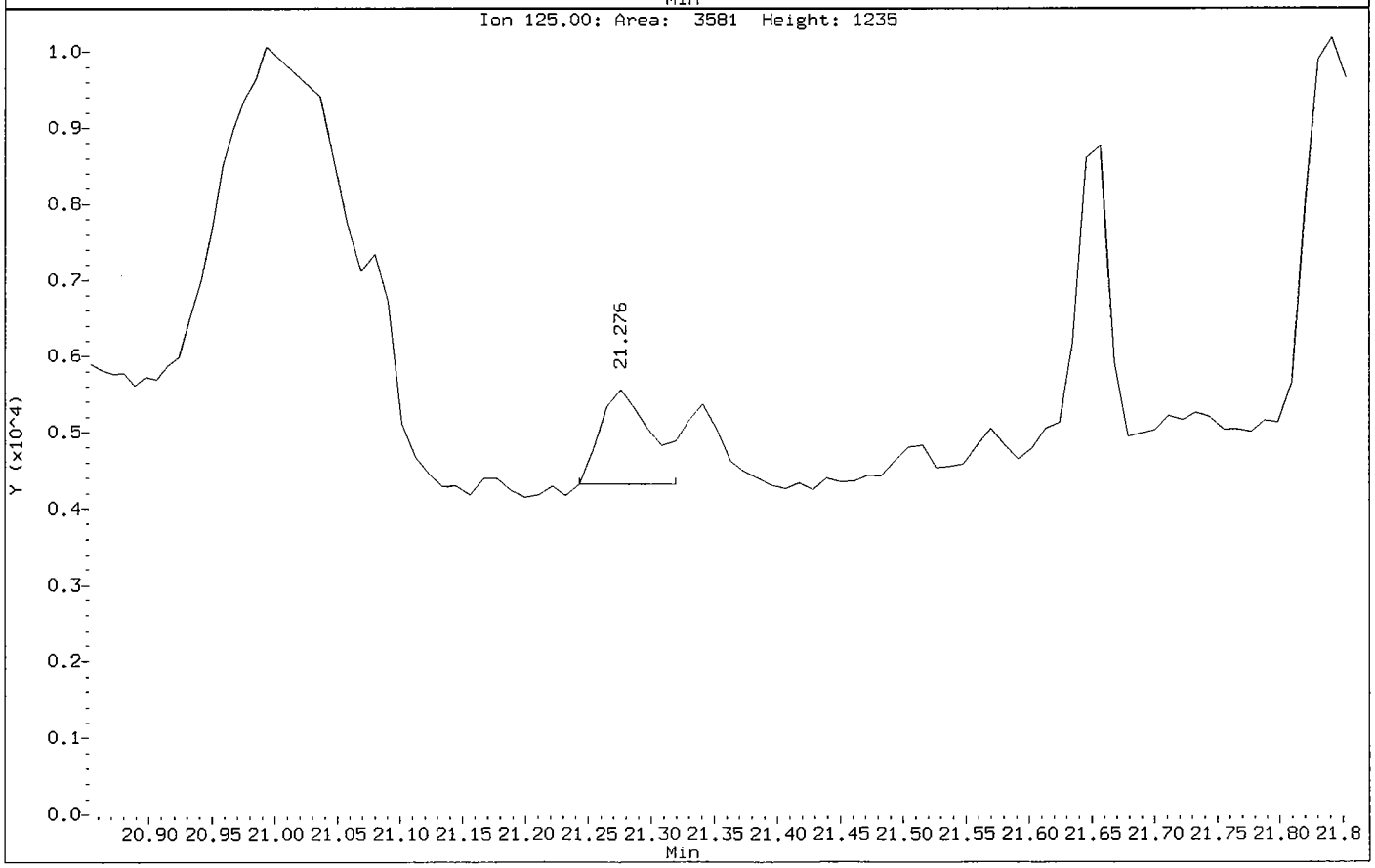


File name: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Client ID: SS52-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 09:37
Retention Time: 21.35
Operator ID: 2743

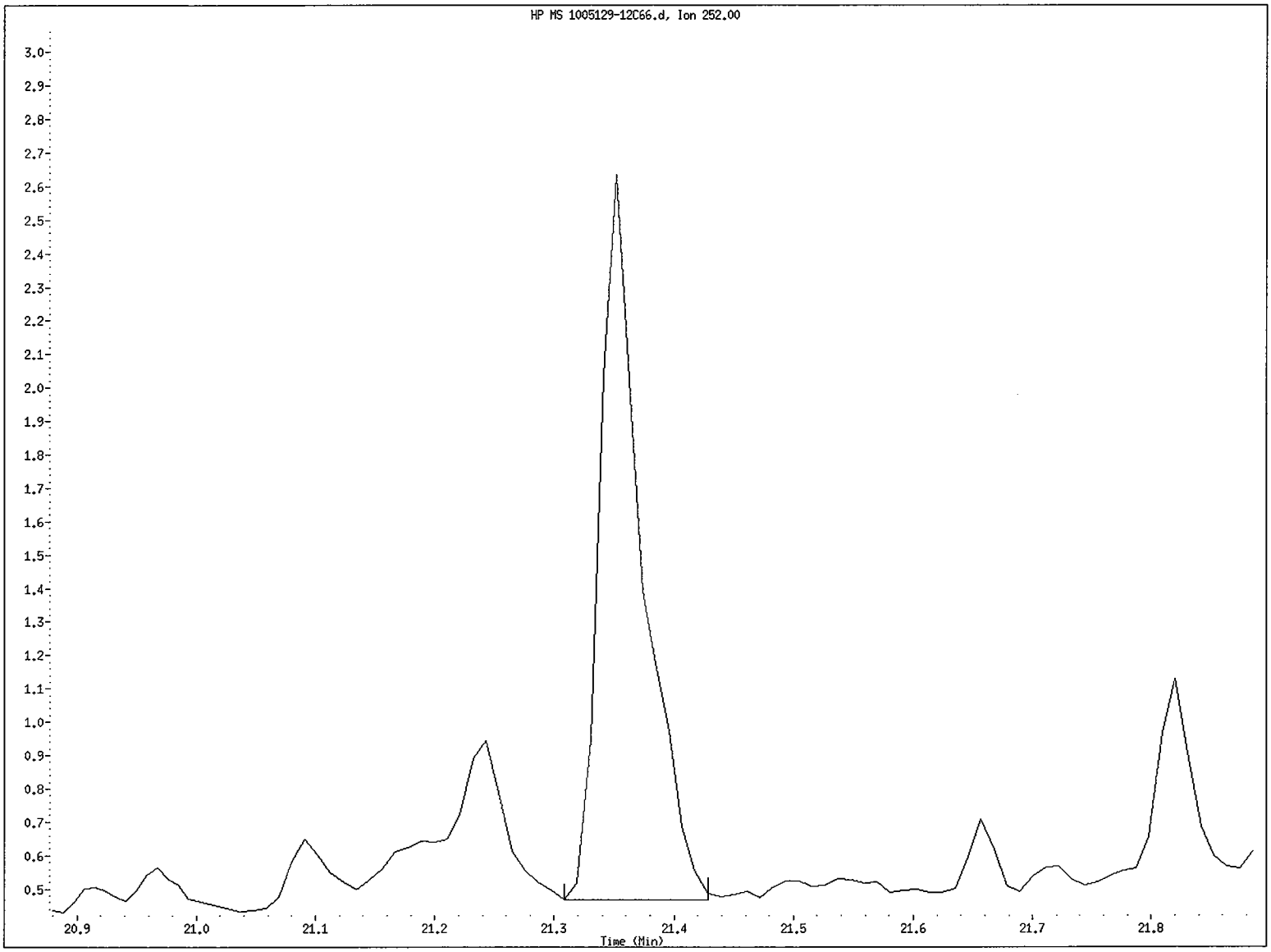
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Injection Date: 28-MAY-2010 09:37
Instrument: 5972hp66.i
Client Sample ID: SS52-0-1

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





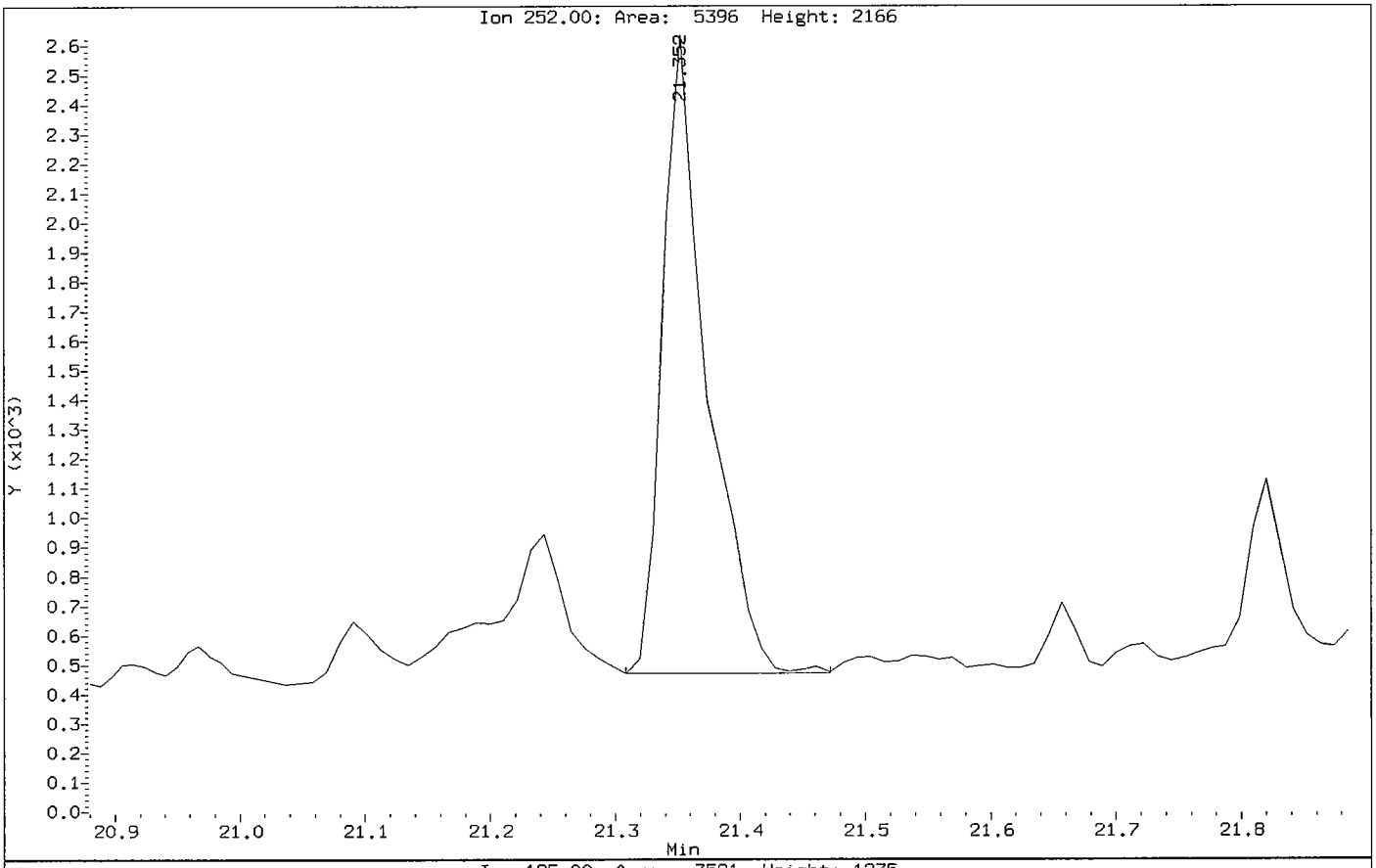
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 5363 Manually integrated

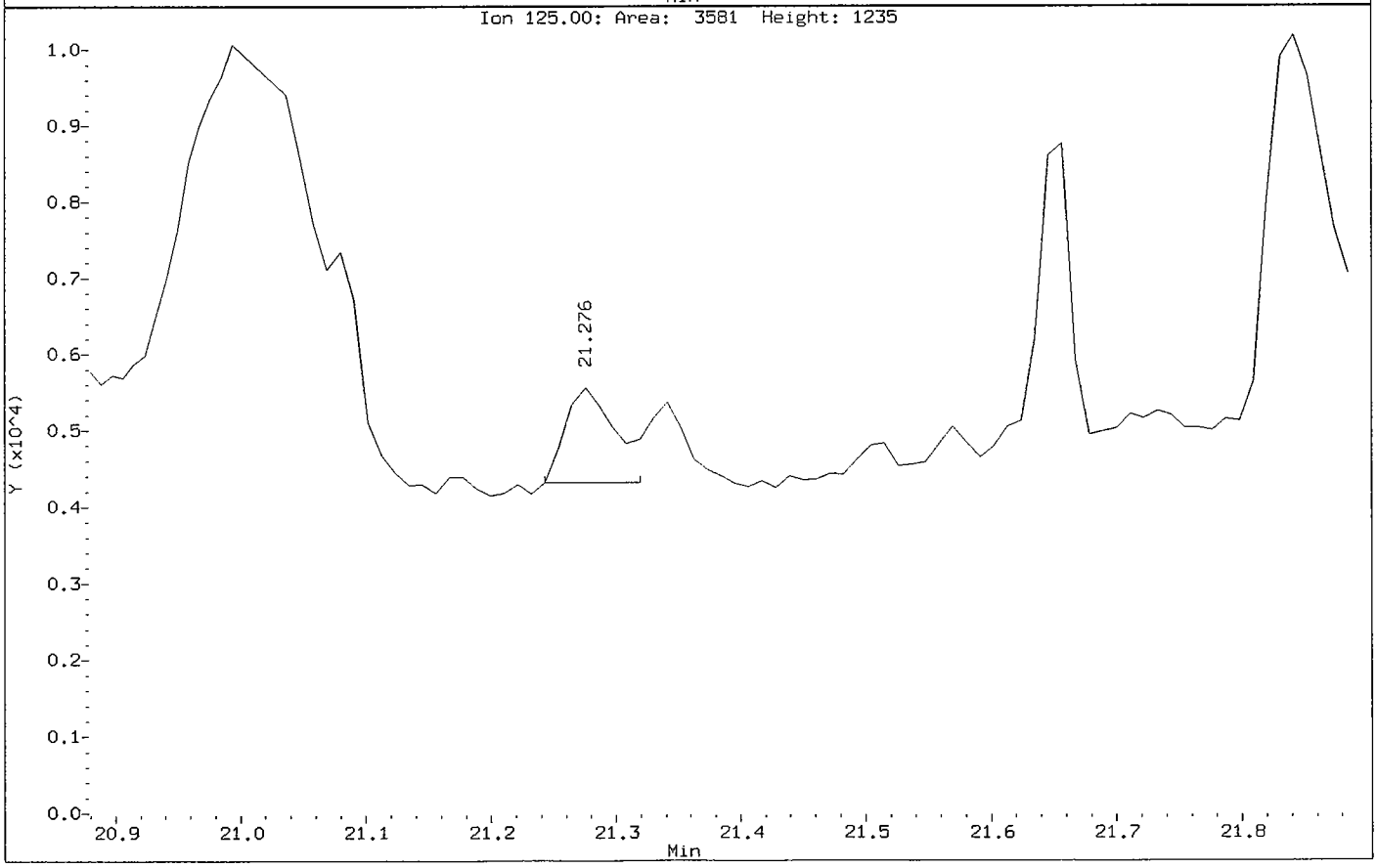


File name: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Client ID: SS52-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 09:37
Retention Time: 21.35
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d
Injection Date: 28-MAY-2010 09:37
Instrument: 5972hp66.i
Client Sample ID: SS52-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d

Date : 28-MAY-2010 09:37

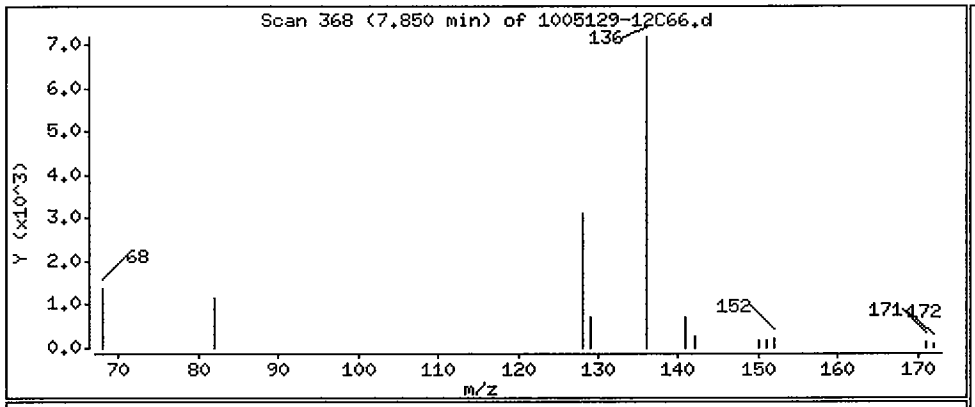
Client ID: SS52-0-1 Instrument: 5972hp66.i

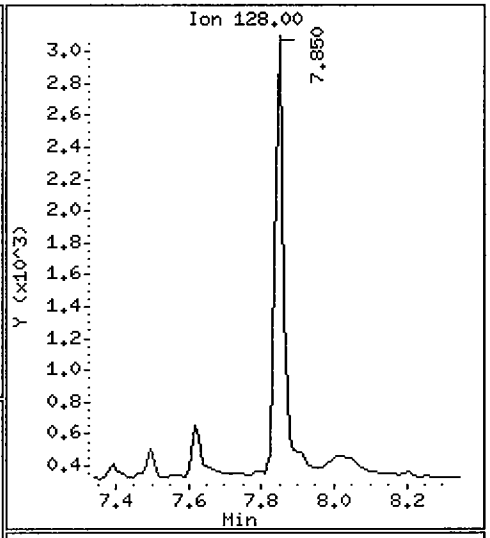
Sample Info: 1005129-12:2743

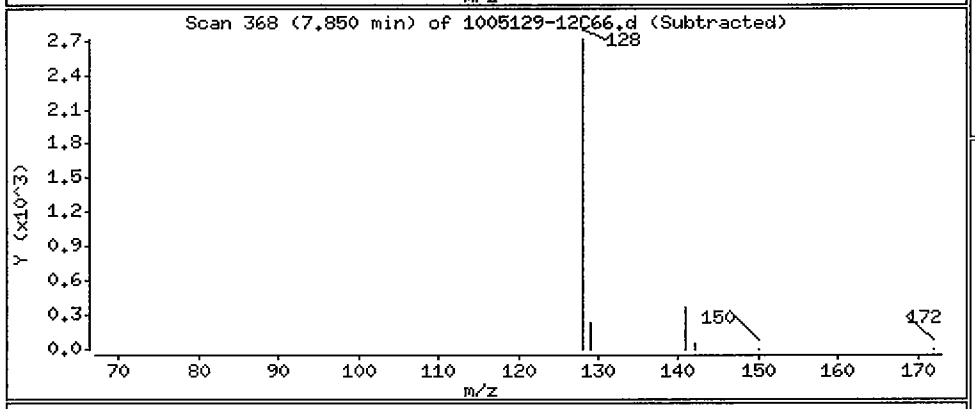
Volume Injected (uL): 2.0 Operator: 2743

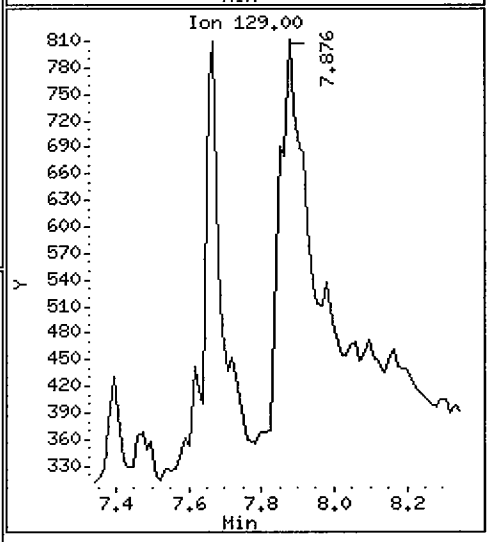
Column phase: Rtx-5MS Column diameter: 0.32

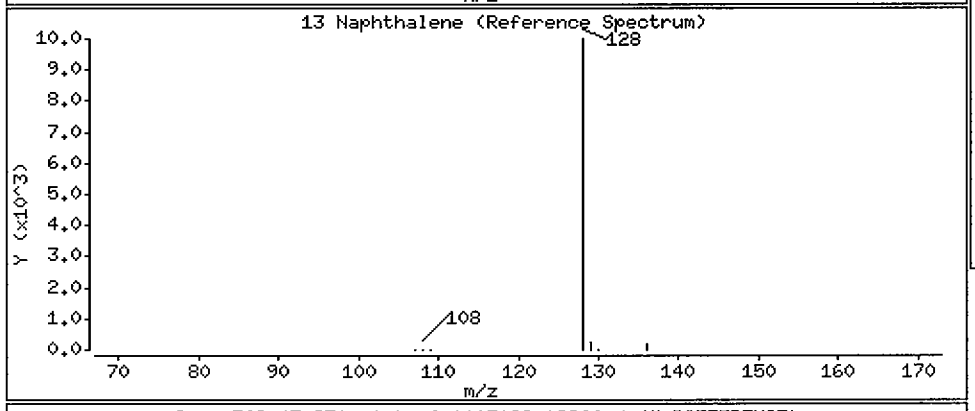
13 Naphthalene Concentration: 0.92 ug/Kg

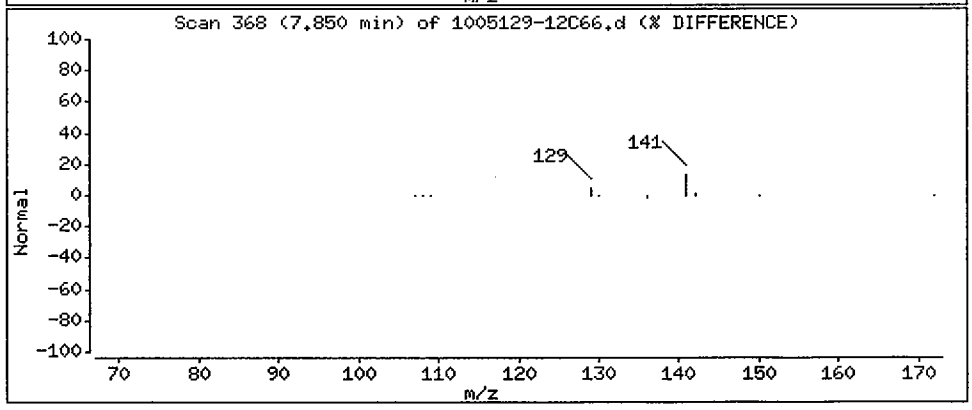












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d

Date : 28-MAY-2010 09:37

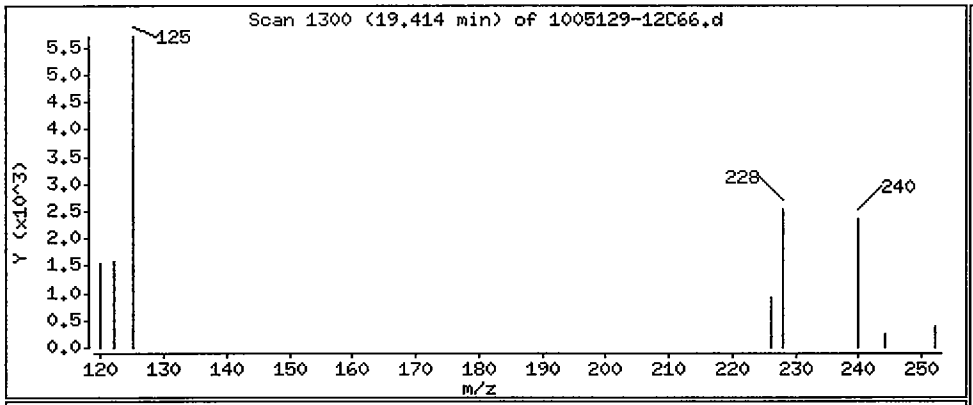
Client ID: SS52-0-1 Instrument: 5972hp66.i

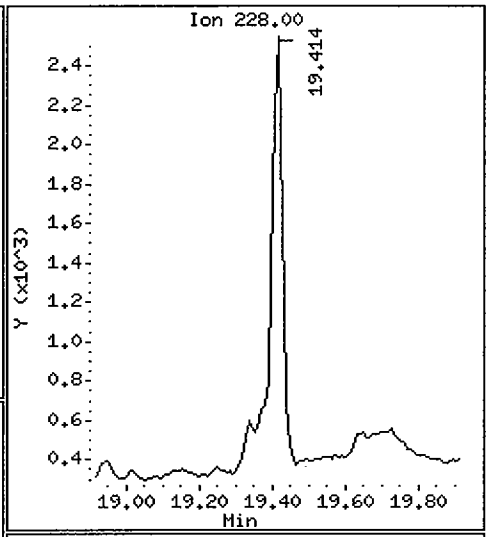
Sample Info: 1005129-12:2743

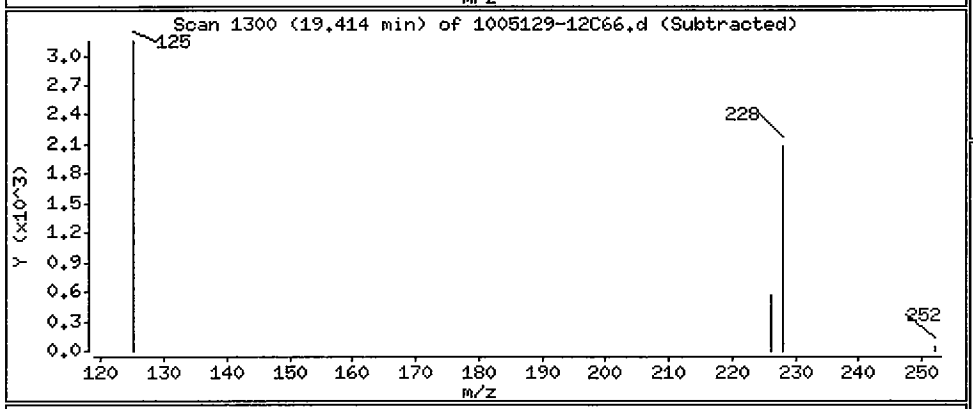
Volume Injected (uL): 2.0 Operator: 2743

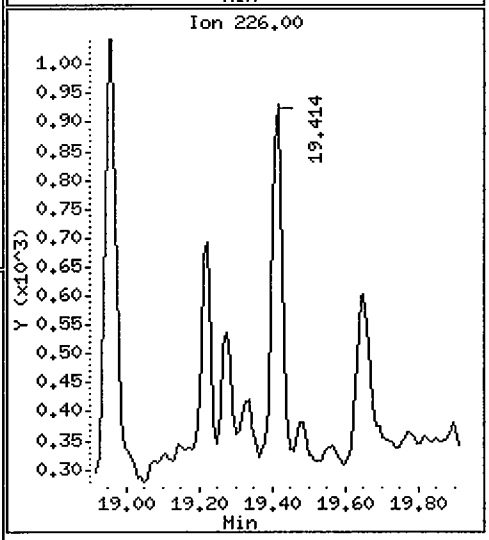
Column phase: Rtx-5MS Column diameter: 0.32

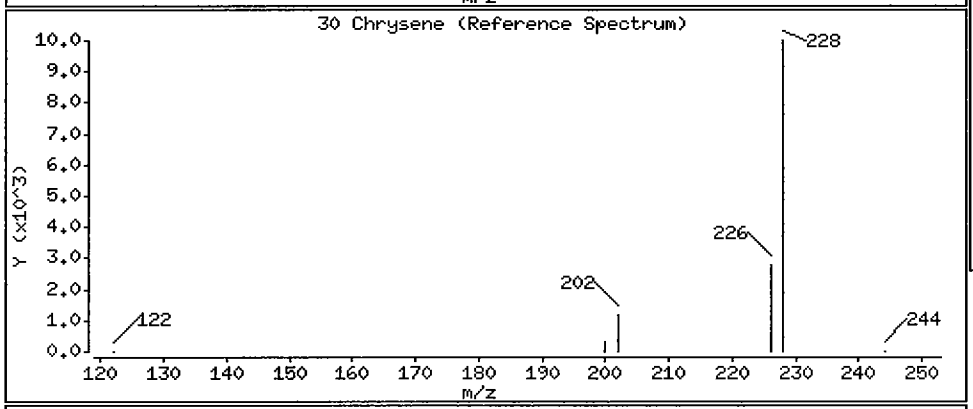
30 Chrysene Concentration: 0.80 ug/Kg

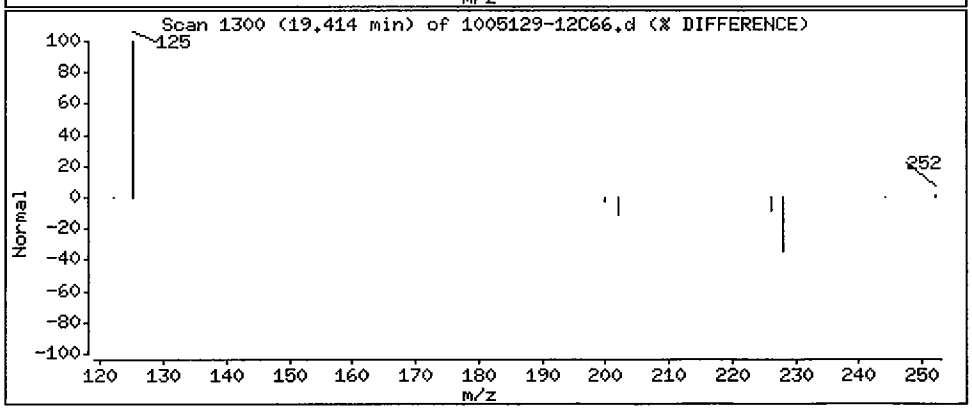












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d

Date : 28-MAY-2010 09:37

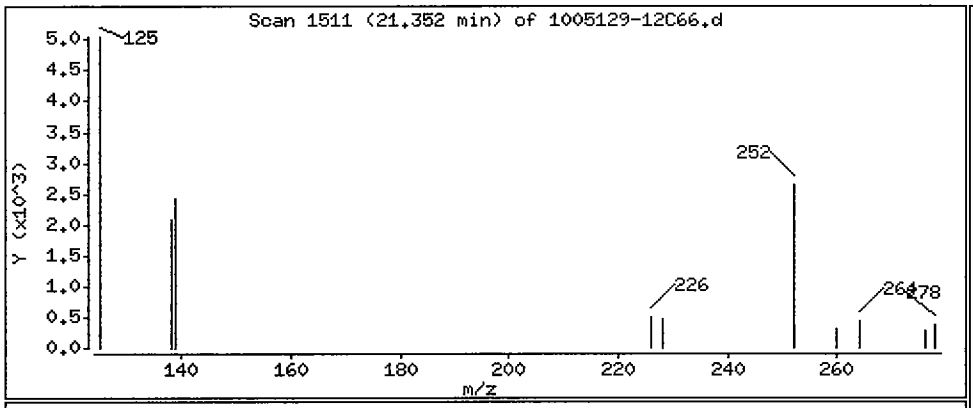
Client ID: SS52-0-1 Instrument: 5972hp66.i

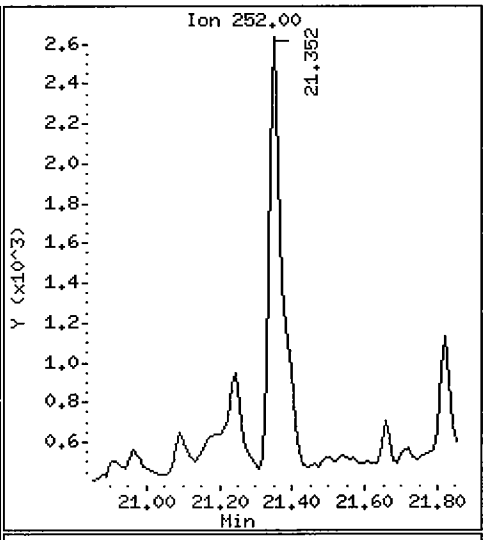
Sample Info: 1005129-12:2743

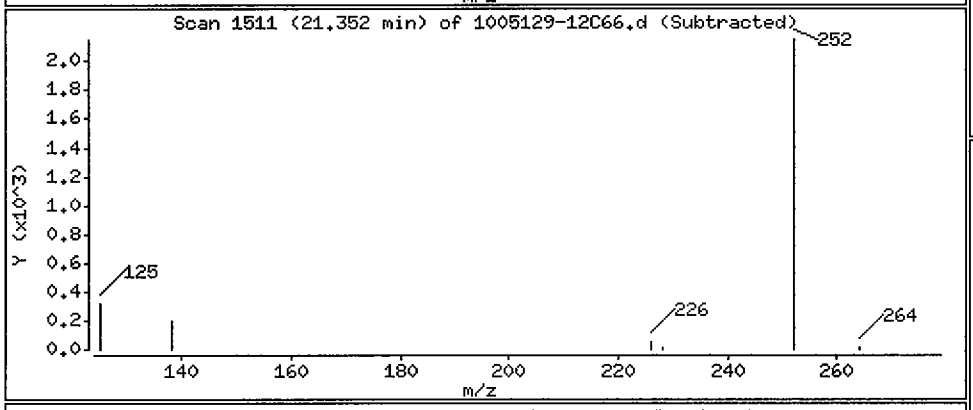
Volume Injected (uL): 2.0 Operator: 2743

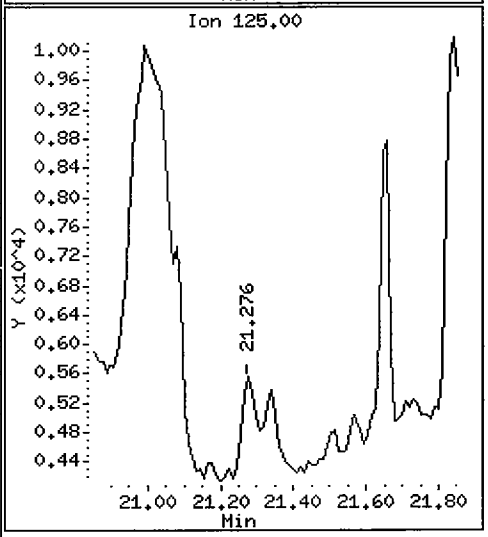
Column phase: Rtx-5MS Column diameter: 0.32

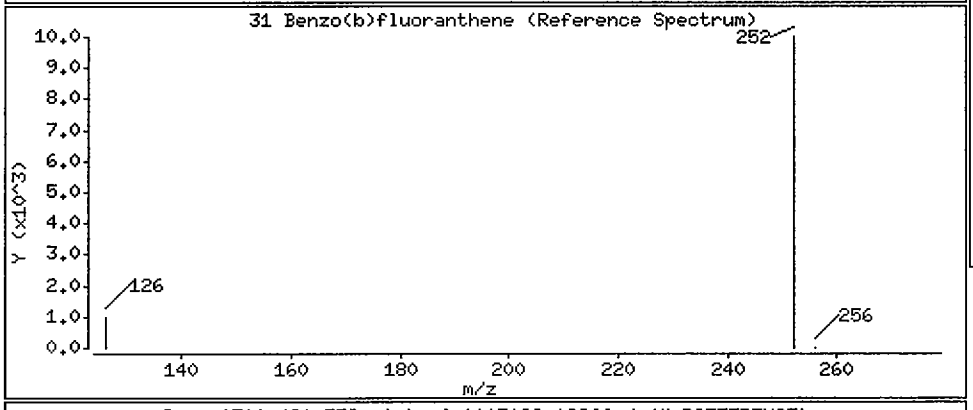
31 Benzo(b)fluoranthene Concentration: 1.3 ug/Kg

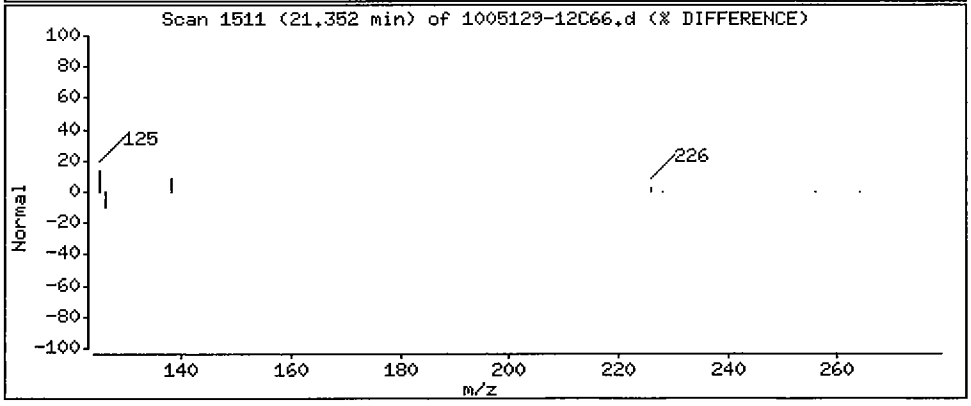












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-12C66.d

Date : 28-MAY-2010 09:37

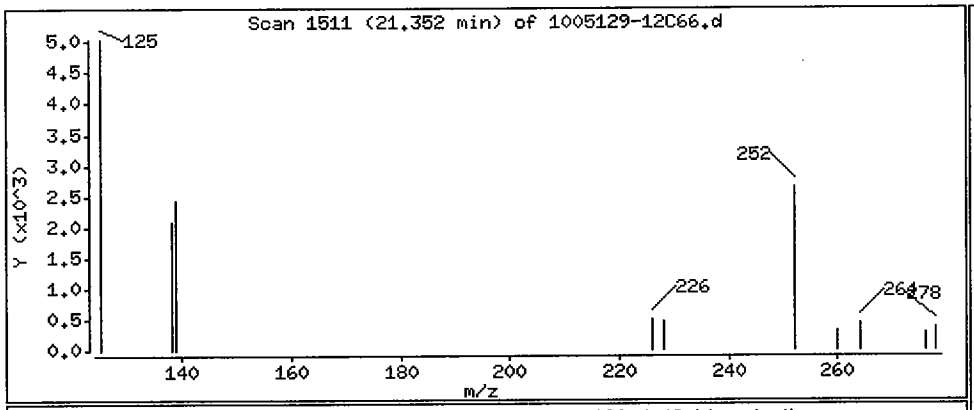
Client ID: SS52-0-1 Instrument: 5972hp66.i

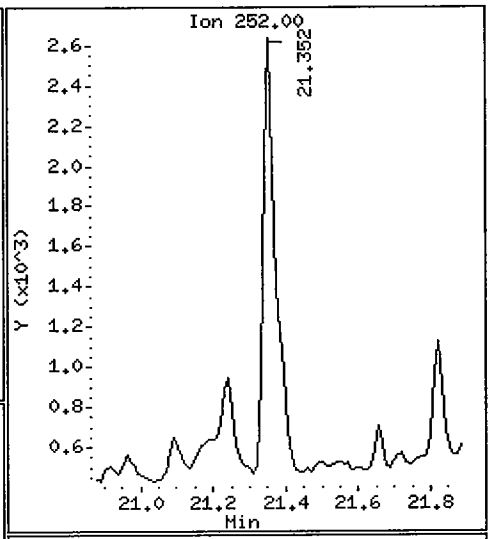
Sample Info: 1005129-12:2743

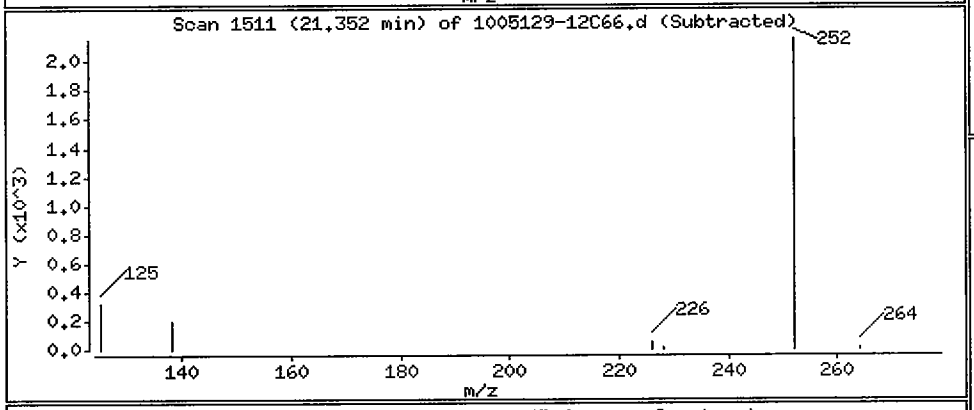
Volume Injected (uL): 2.0 Operator: 2743

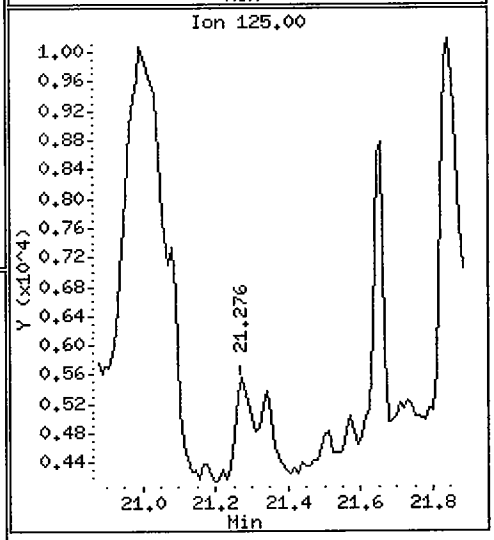
Column phase: Rtx-5MS Column diameter: 0.32

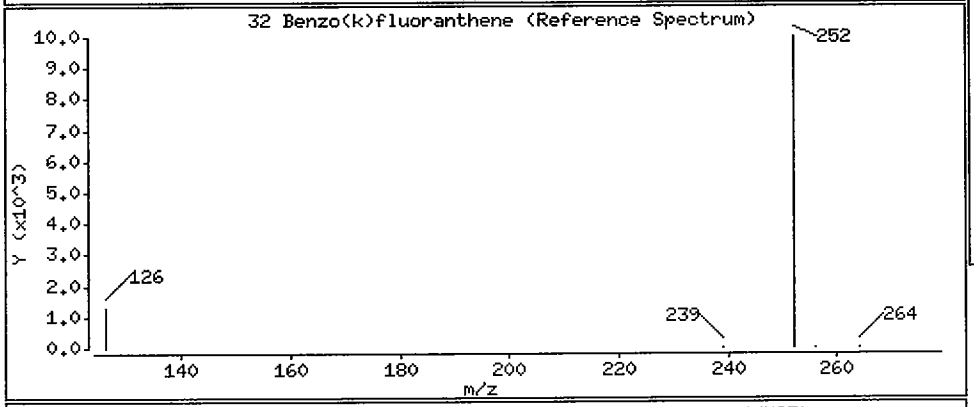
32 Benzo(k)fluoranthene Concentration: 1.2 ug/Kg

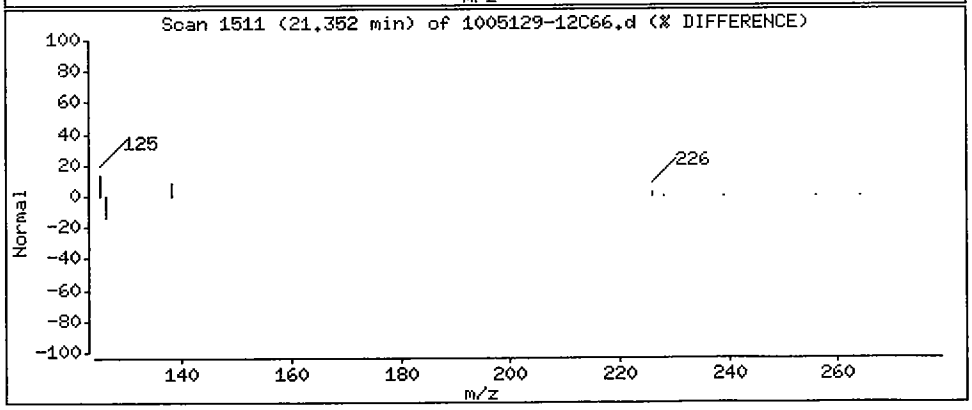












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS53-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-05
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-05JA66
Analyst: 2730

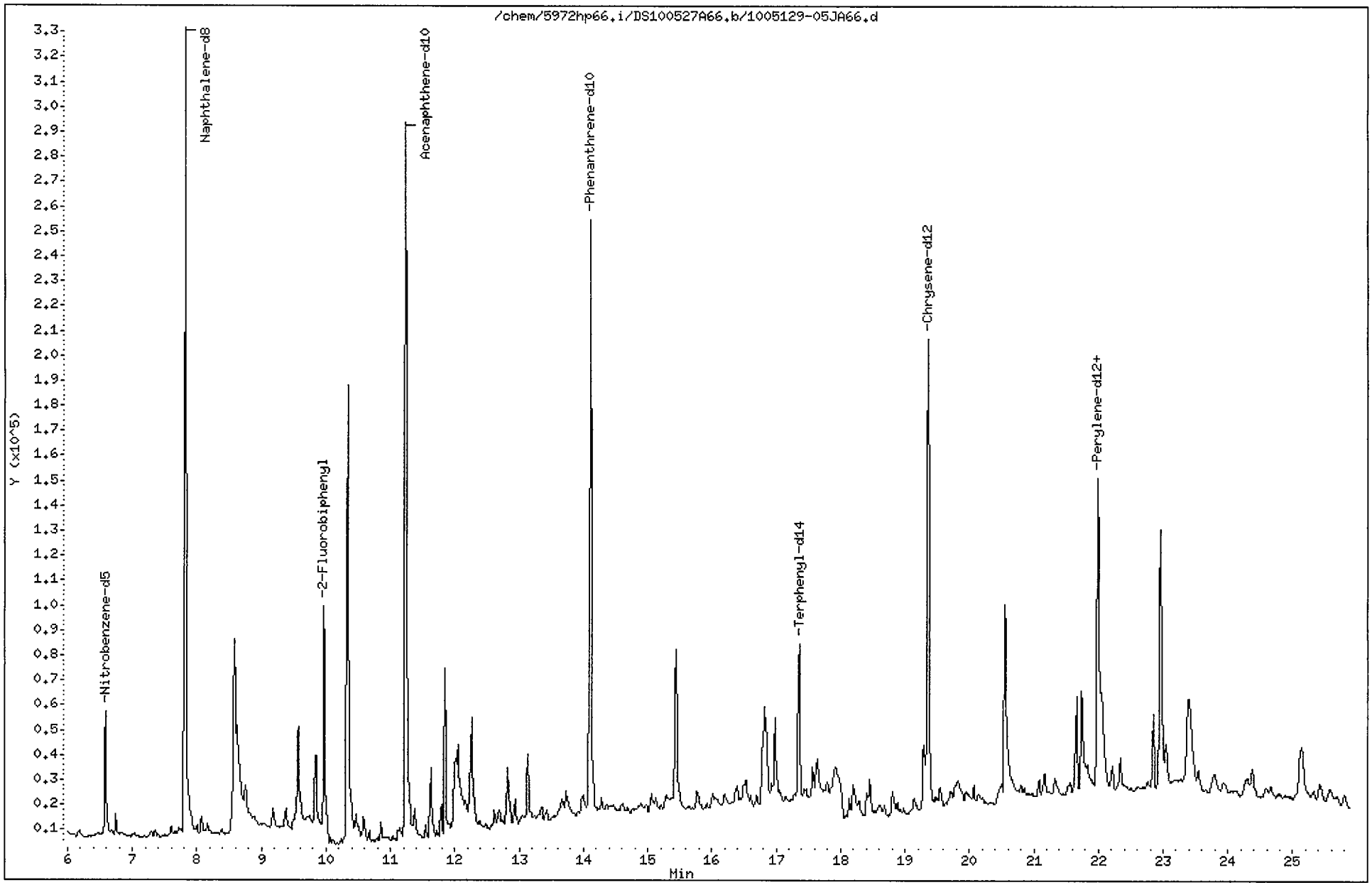
% Moisture: 25 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.96	11	ND	U
91-57-6	2-Methylnaphthalene	0.91	11	ND	U
208-96-8	Acenaphthylene	0.71	11	ND	U
83-32-9	Acenaphthene	0.80	11	ND	U
86-73-7	Fluorene	0.60	11	ND	U
85-01-8	Phenanthrene	1.8	11	ND	U
120-12-7	Anthracene	0.58	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.76	11	0.92	J
56-55-3	Benzo(a)anthracene	0.76	11	ND	U
218-01-9	Chrysene	0.84	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.76	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.58	11	0.80	J
50-32-8	Benzo(a)pyrene	0.51	11	0.53	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.49	11	0.56	J
53-70-3	Dibenzo(a,h)anthracene	0.44	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.51	11	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d
Date : 27-MAY-2010 19:35
Client ID: SS53-0-1
Instrument: 5972hp66.i
Sample Info: 1005129-05:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d
Report Date: 01-Jun-2010 16:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d
Lab Smp Id: 1005129-05 Client Smp ID: SS53-0-1
Inj Date : 27-MAY-2010 19:35
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005129-05:2730
Misc Info : SS53-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 16:49 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	25.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.584	5.557	(1.000)	142614	2.00000		(a)
*	2 Naphthalene-d8	136	7.813	7.812	(1.000)	528693	2.00000		(a)
*	3 Acenaphthene-d10	164	11.230	11.230	(1.000)	224536	2.00000		(a)
*	4 Phenanthrene-d10	188	14.114	14.114	(1.000)	393801	2.00000		(a)
*	5 Chrysene-d12	240	19.354	19.344	(1.000)	333624	2.00000		(a)
*	6 Perylene-d12	264	21.993	21.972	(1.000)	252698	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.587	6.574	(0.843)	67627	0.57484	13	
$	10 2-Fluorobiphenyl	172	9.963	9.963	(0.887)	145205	0.61972	14	
$	12 Terphenyl-d14	244	17.360	17.347	(0.897)	95383	0.78686	17	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

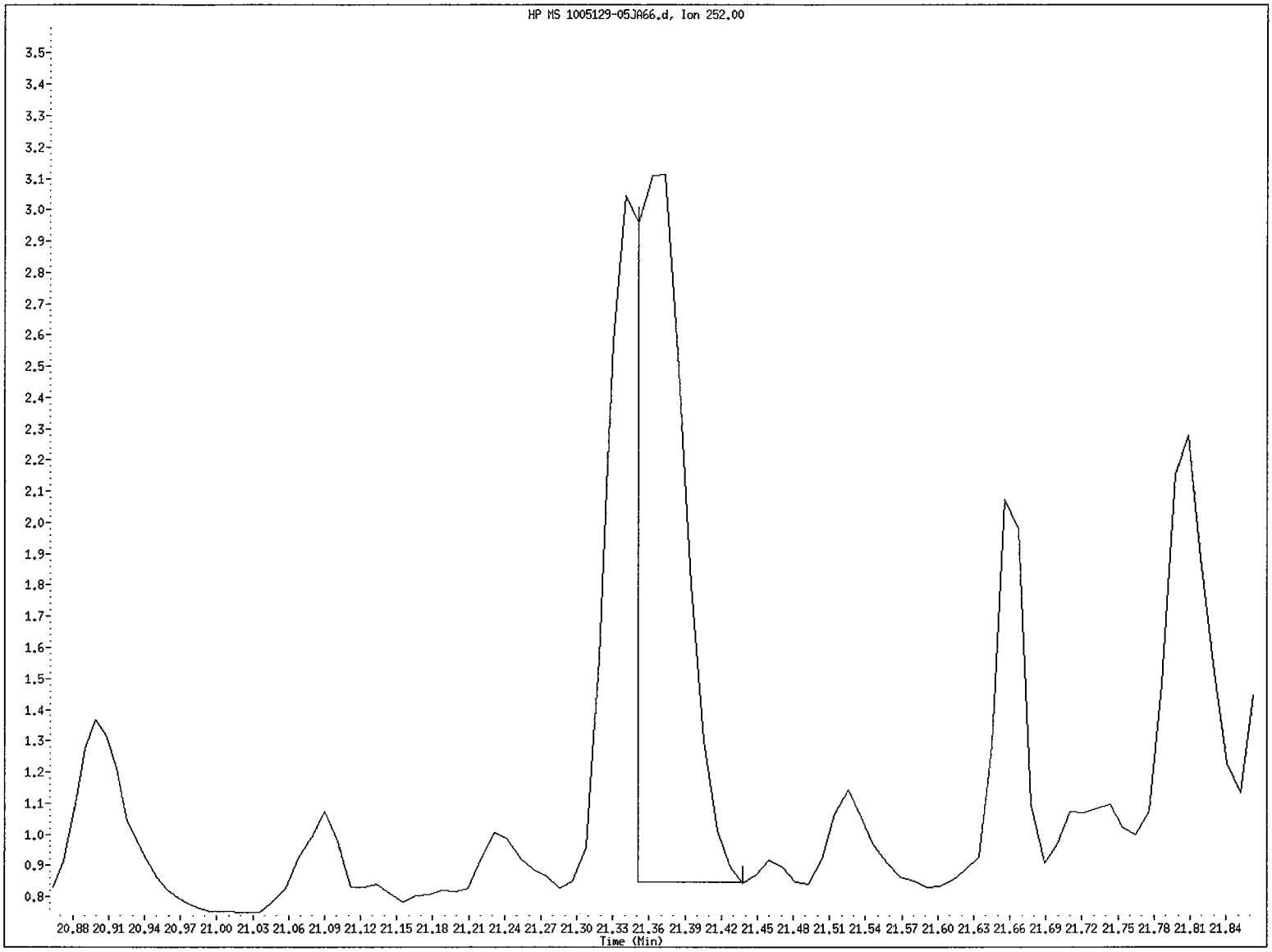
Data File: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d
Report Date: 01-Jun-2010 16:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.930	16.930	(0.875)	10017	0.04158	0.92(a)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	21.373	21.362	(0.972)	6473	0.03609	0.80(aM)
33 Benzo(a)pyrene	252	21.884	21.863	(0.995)	3560	0.02370	0.53(a)
34 Indeno(1,2,3-cd)pyrene	276	24.072	24.040	(1.095)	3311	0.02499	0.56(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

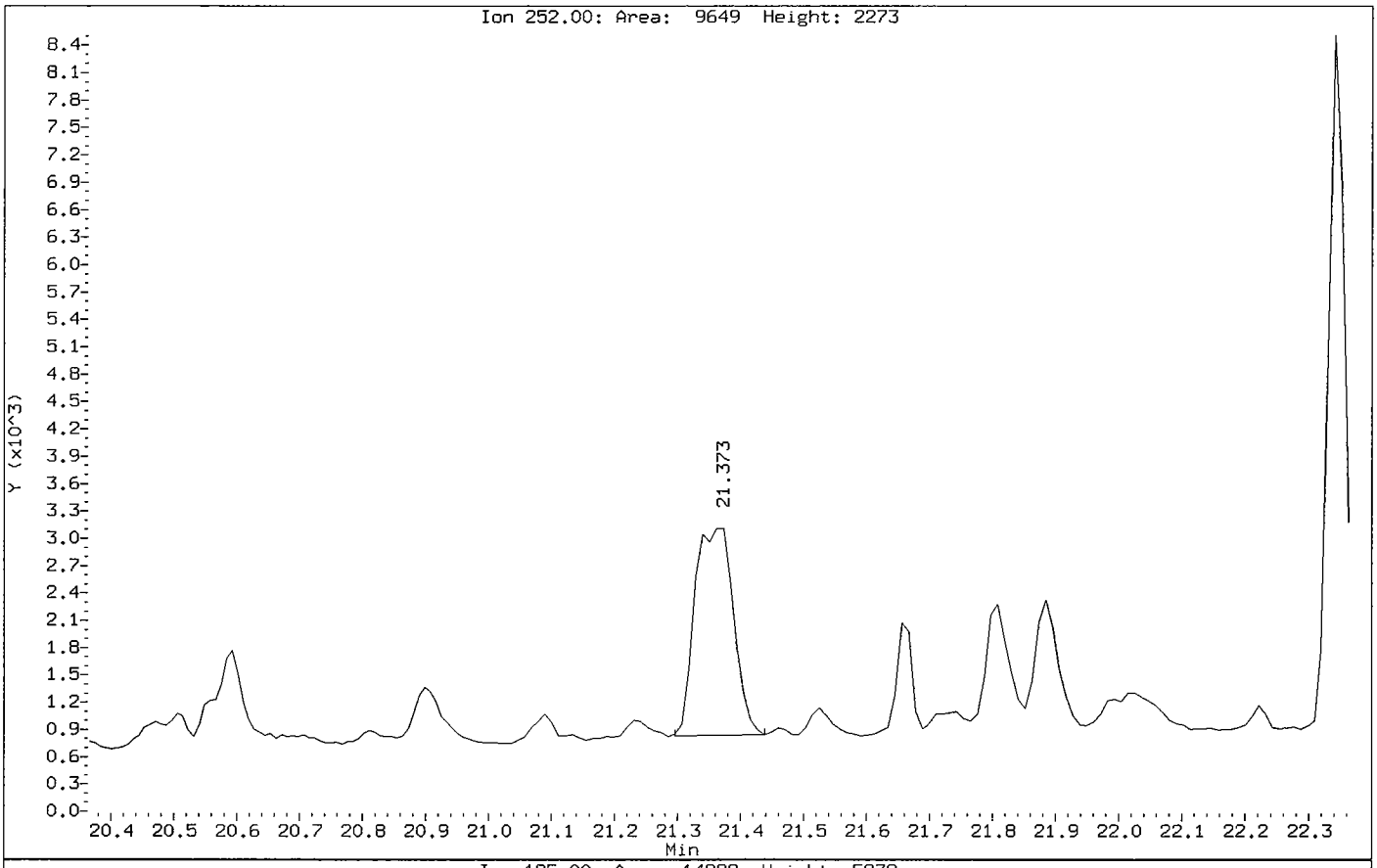
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 6473 Manually integrated

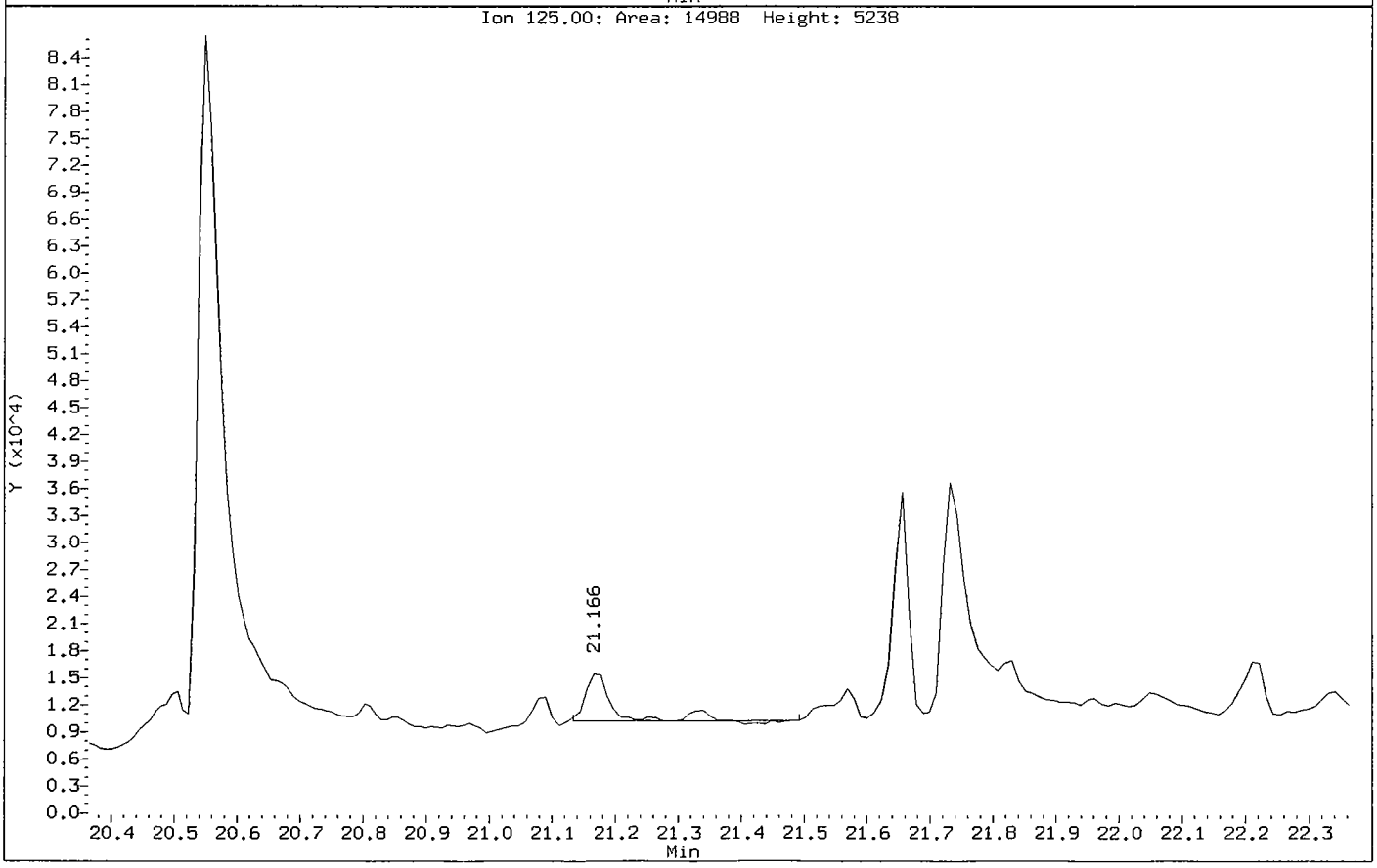


File name: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d
Client ID: SS53-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 19:35
Retention Time: 21.37
Operator ID: 2730

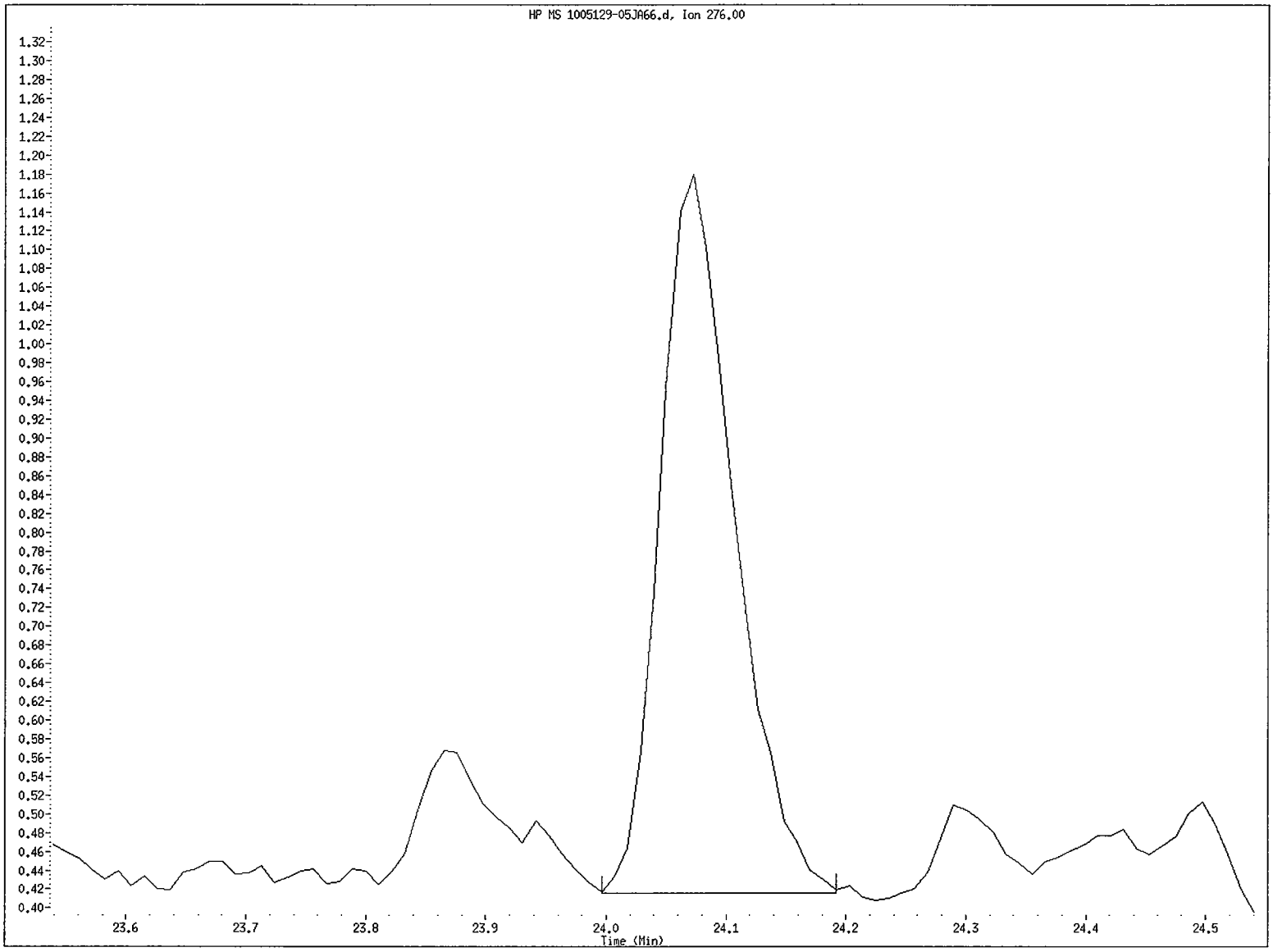
Data File: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d
Injection Date: 27-MAY-2010 19:35
Instrument: 5972hp66.i
Client Sample ID: SS53-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





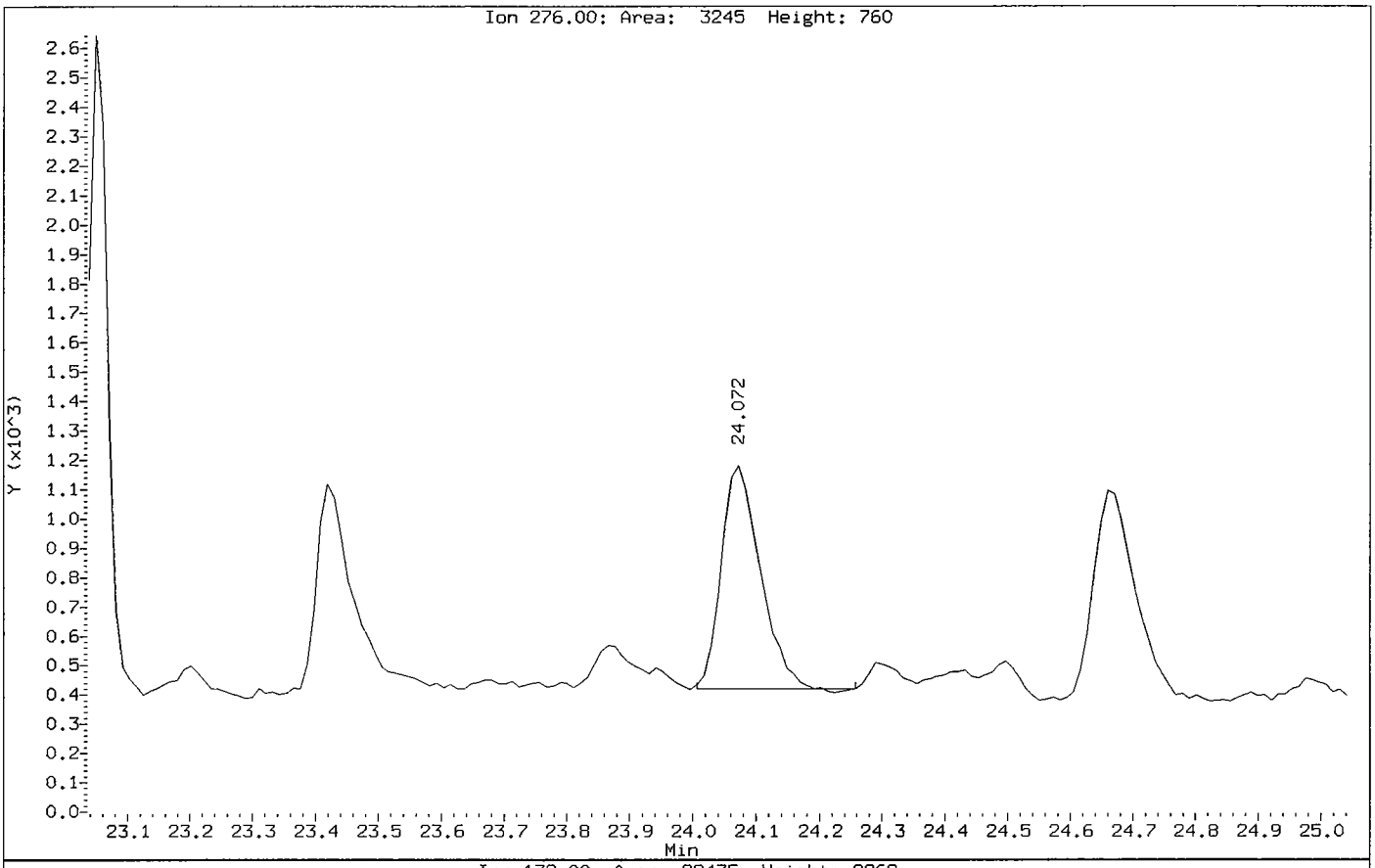
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 3311 Manually integrated

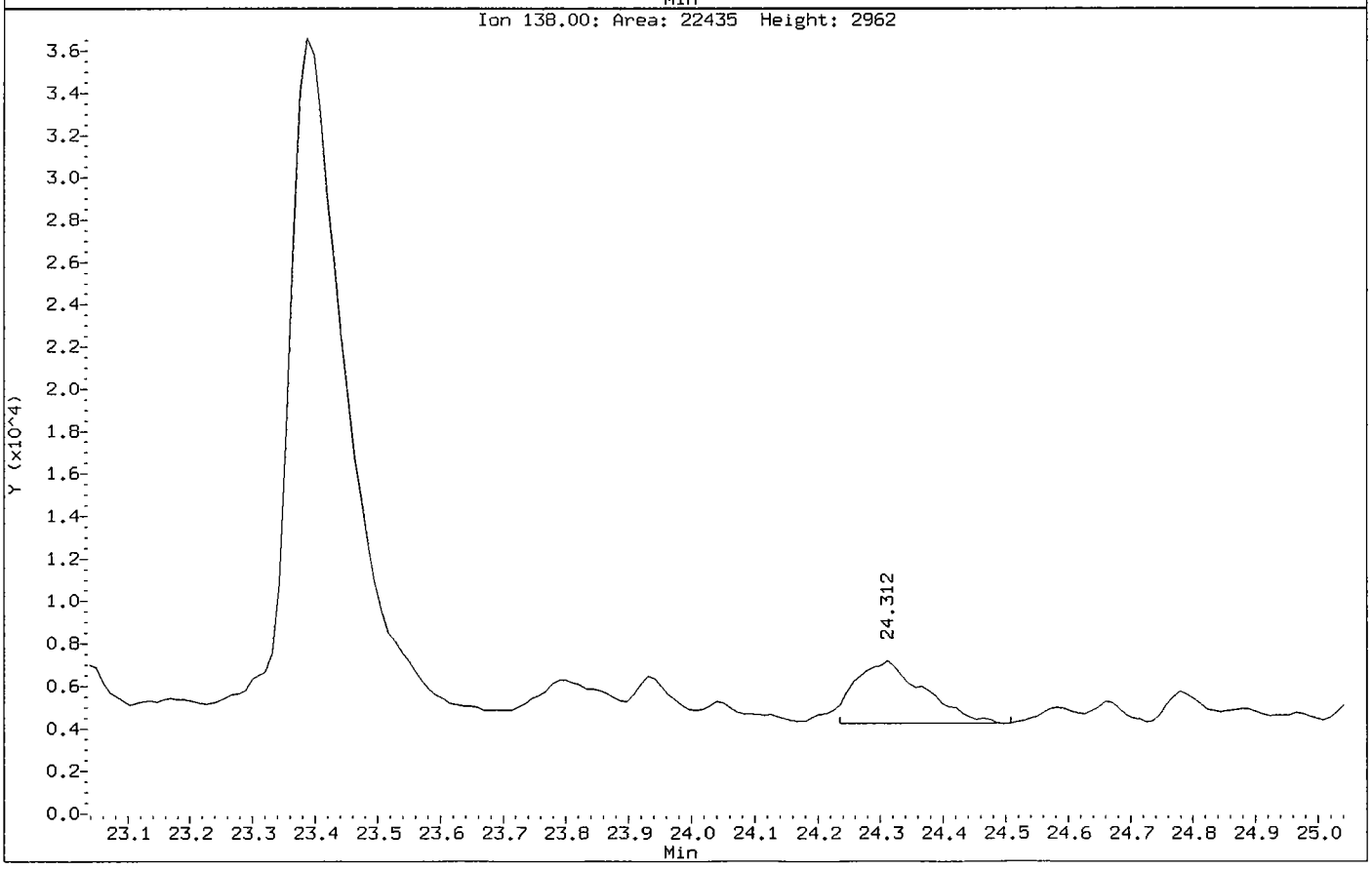


File name: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d
Client ID: SS53-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 19:35
Retention Time: 24.07
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d
Injection Date: 27-MAY-2010 19:35
Instrument: 5972hp66.i
Client Sample ID: SS53-0-1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





Data File: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d

Date : 27-MAY-2010 19:35

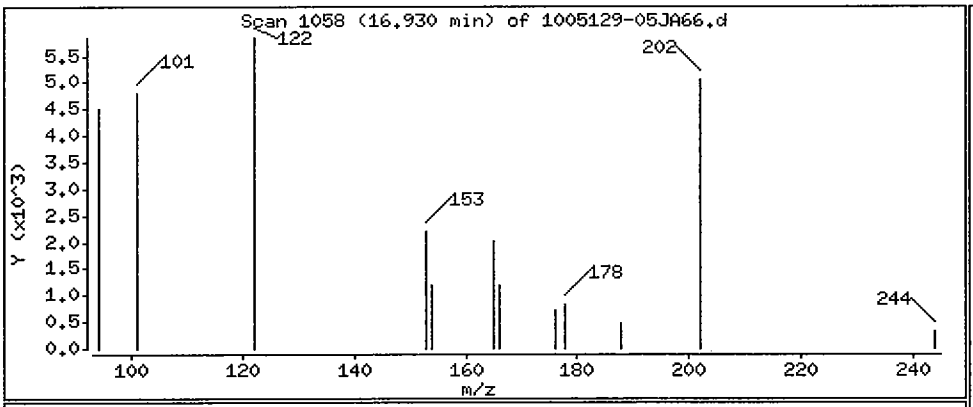
Client ID: SS53-0-1 Instrument: 5972hp66.i

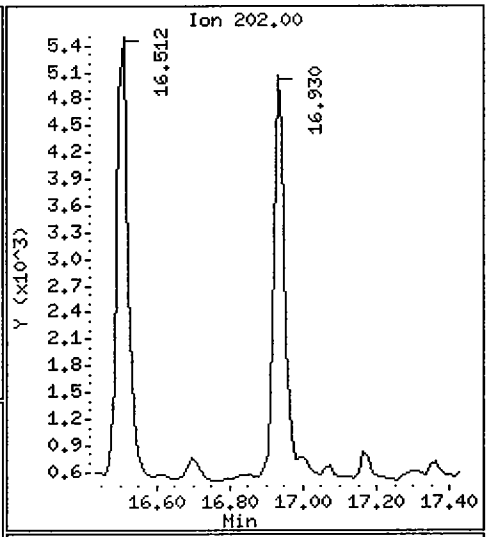
Sample Info: 1005129-05:2730

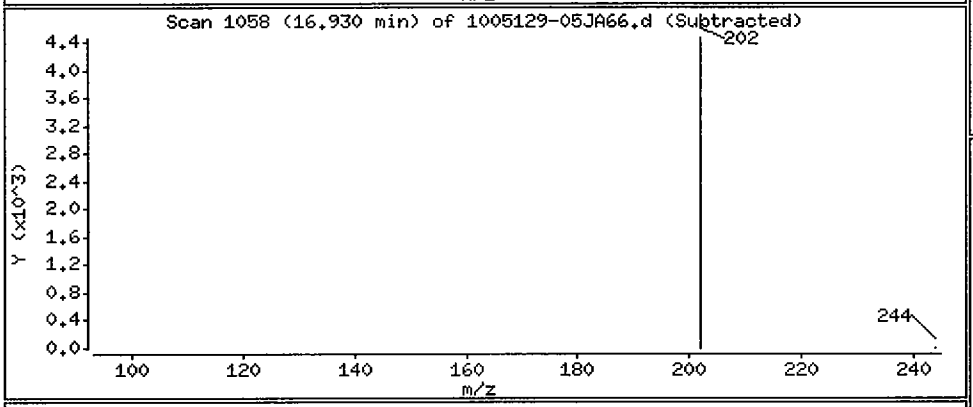
Volume Injected (uL): 2.0 Operator: 2730

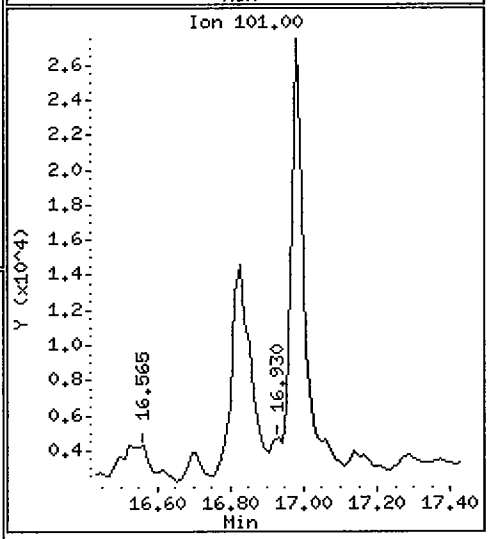
Column phase: Rtx-5MS Column diameter: 0.32

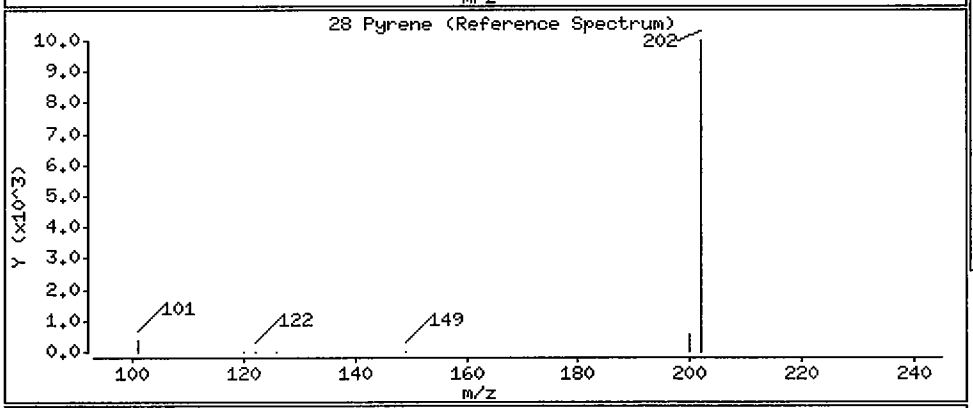
28 Pyrene Concentration: 0.92 ug/Kg

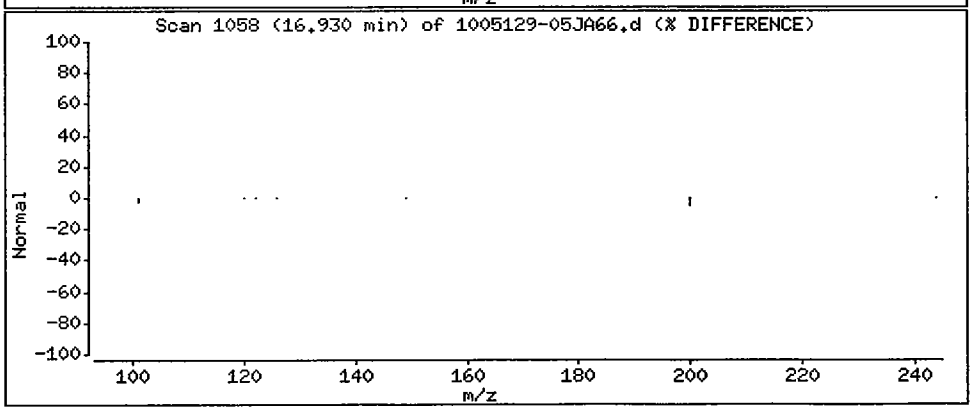












Data File: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d

Date : 27-MAY-2010 19:35

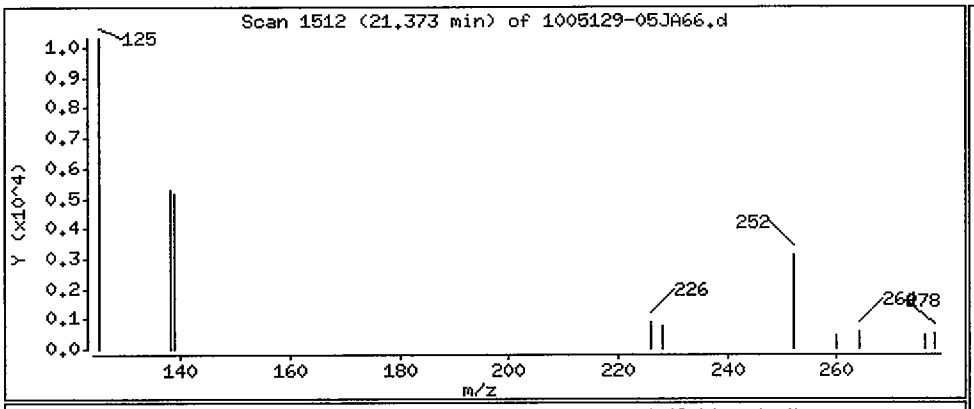
Client ID: SS53-0-1 Instrument: 5972hp66.i

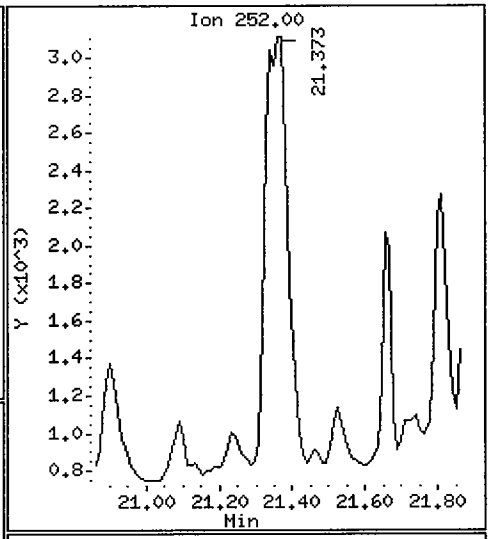
Sample Info: 1005129-05:2730

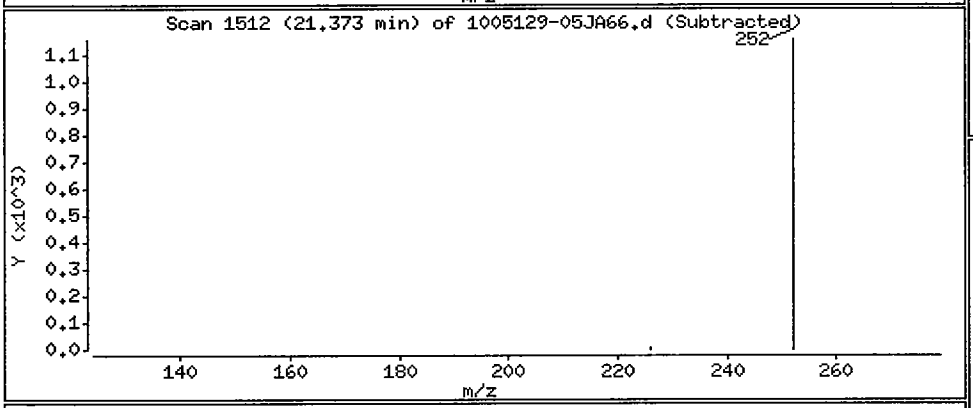
Volume Injected (uL): 2.0 Operator: 2730

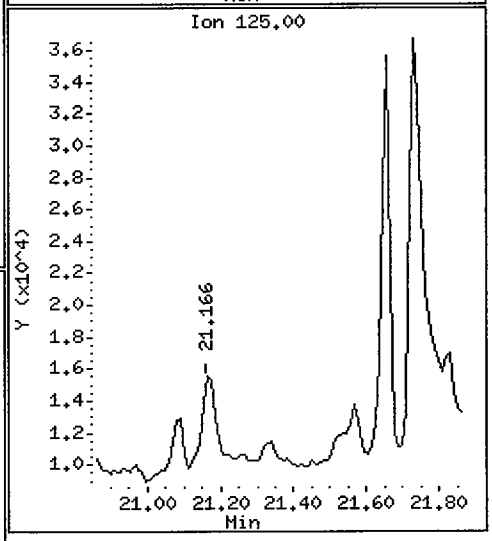
Column phase: Rtx-5MS Column diameter: 0.32

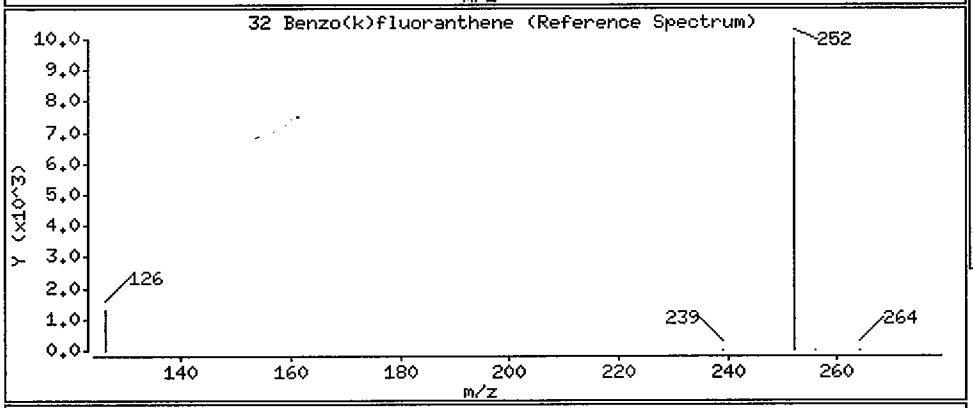
32 Benzo(k)fluoranthene Concentration: 0.80 ug/Kg

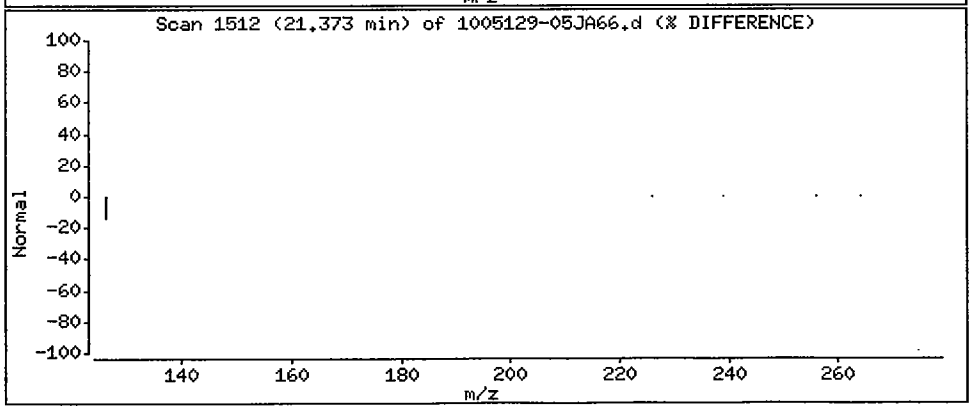












Data File: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d

Date : 27-MAY-2010 19:35

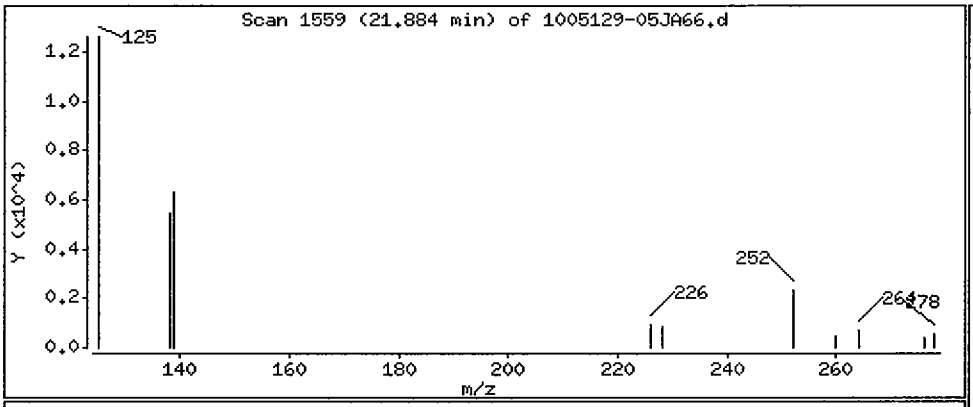
Client ID: SS53-0-1 Instrument: 5972hp66.i

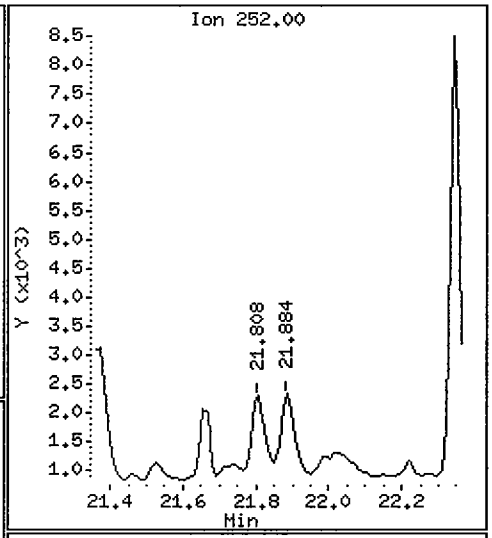
Sample Info: 1005129-05;2730

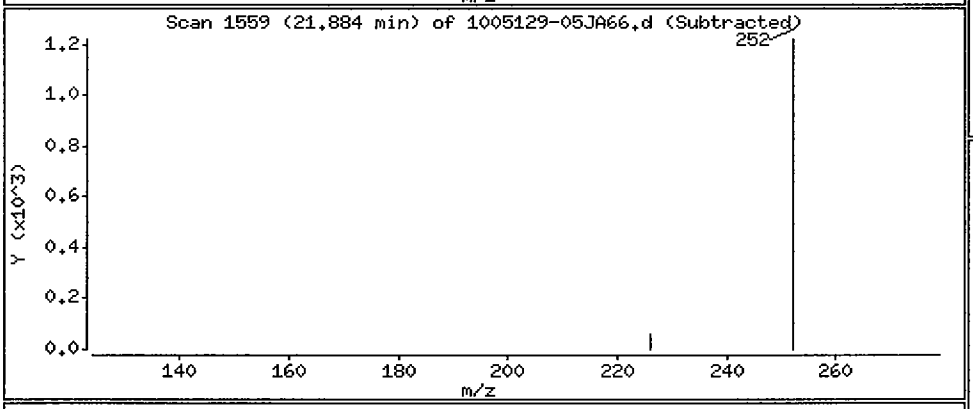
Volume Injected (uL): 2.0 Operator: 2730

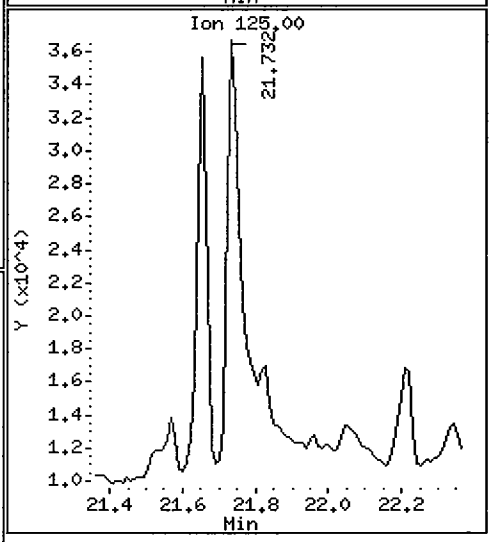
Column phase: Rtx-5MS Column diameter: 0.32

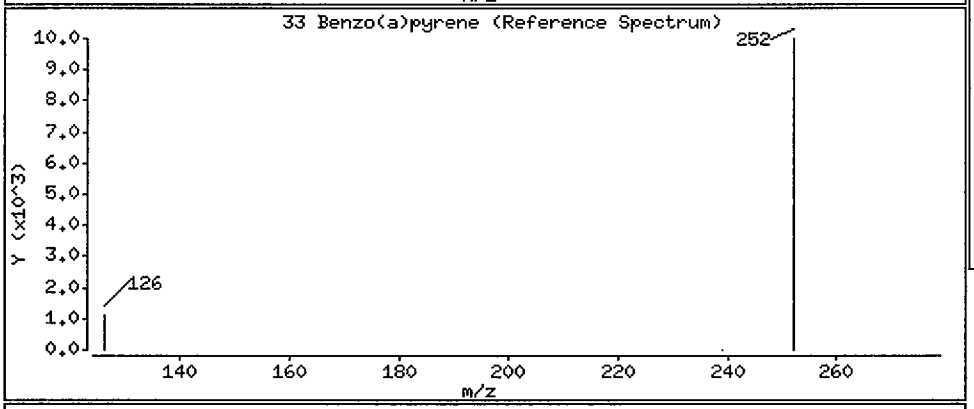
33 Benzo(a)pyrene Concentration: 0.53 ug/Kg

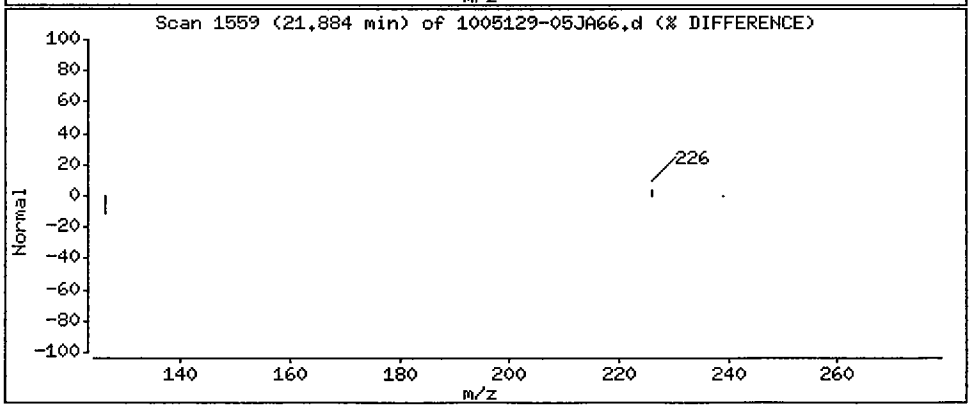












Data File: /chem/5972hp66.i/DS100527A66.b/1005129-05JA66.d

Date : 27-MAY-2010 19:35

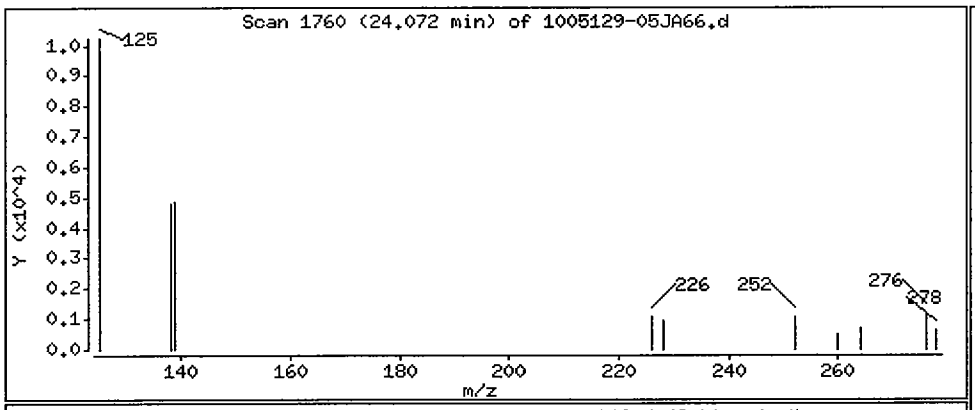
Client ID: SS53-0-1 Instrument: 5972hp66.i

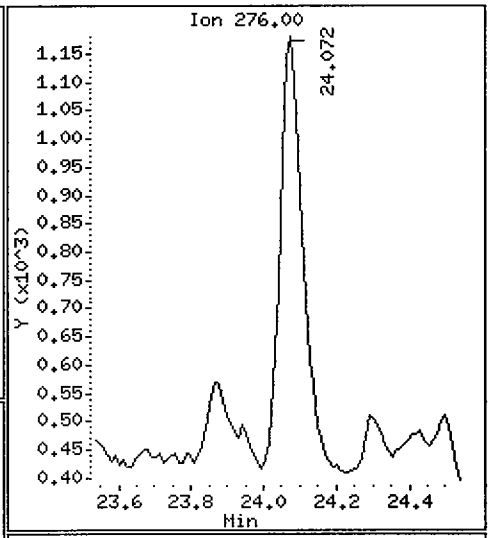
Sample Info: 1005129-05:2730

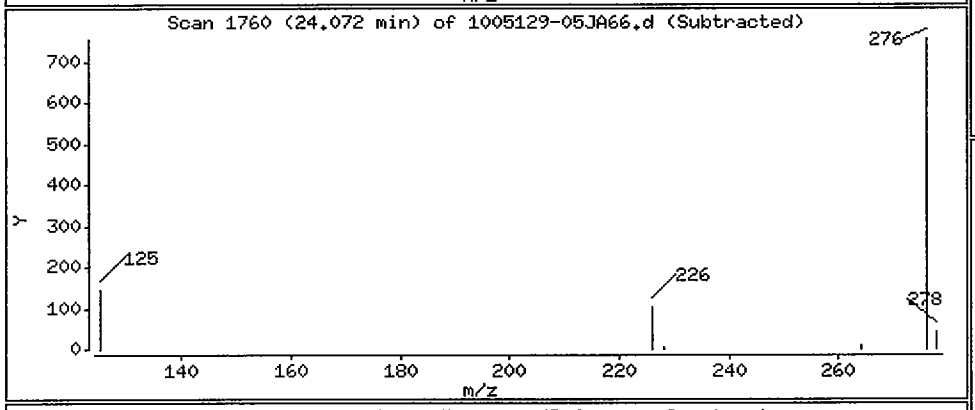
Volume Injected (uL): 2.0 Operator: 2730

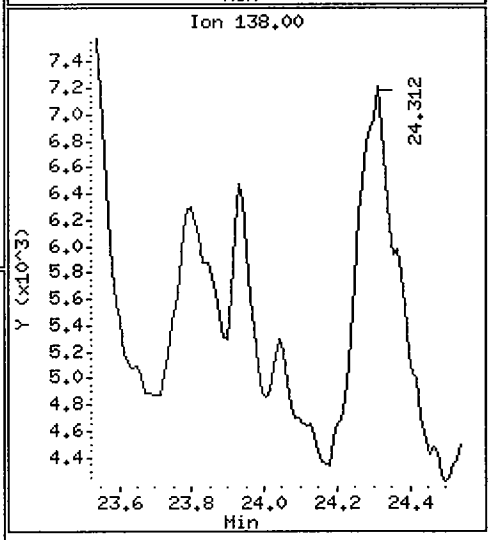
Column phase: Rtx-5MS Column diameter: 0.32

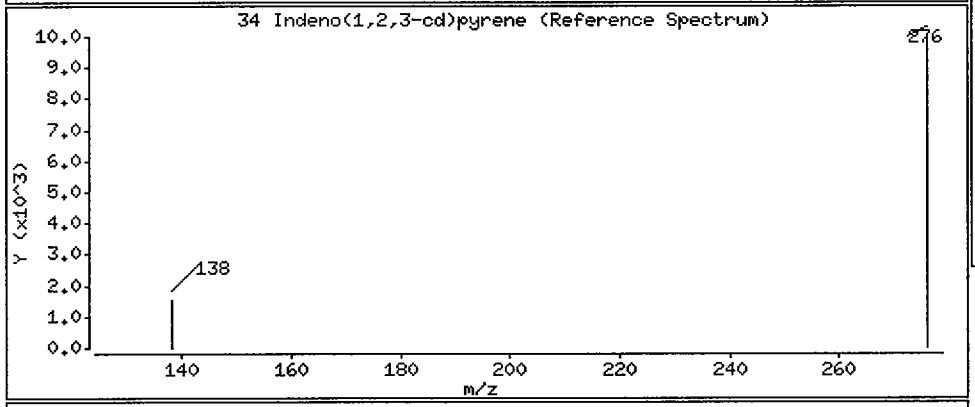
34 Indeno(1,2,3-cd)pyrene Concentration: 0.56 ug/Kg

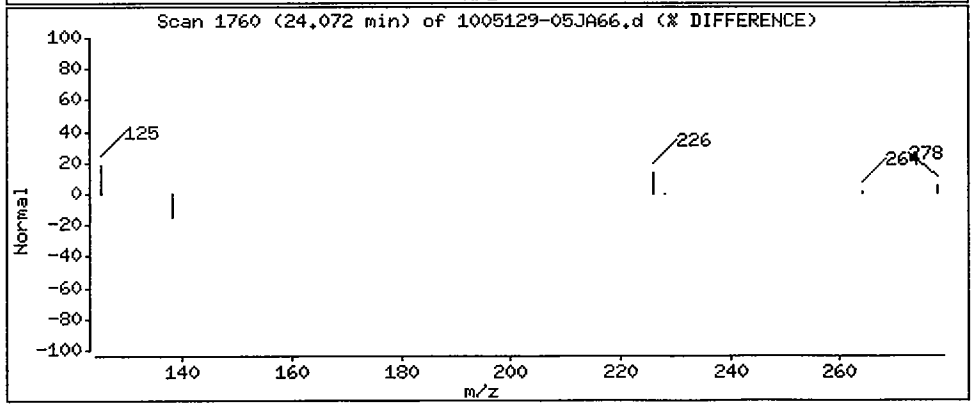












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS54-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-03A66
Analyst: 2650

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

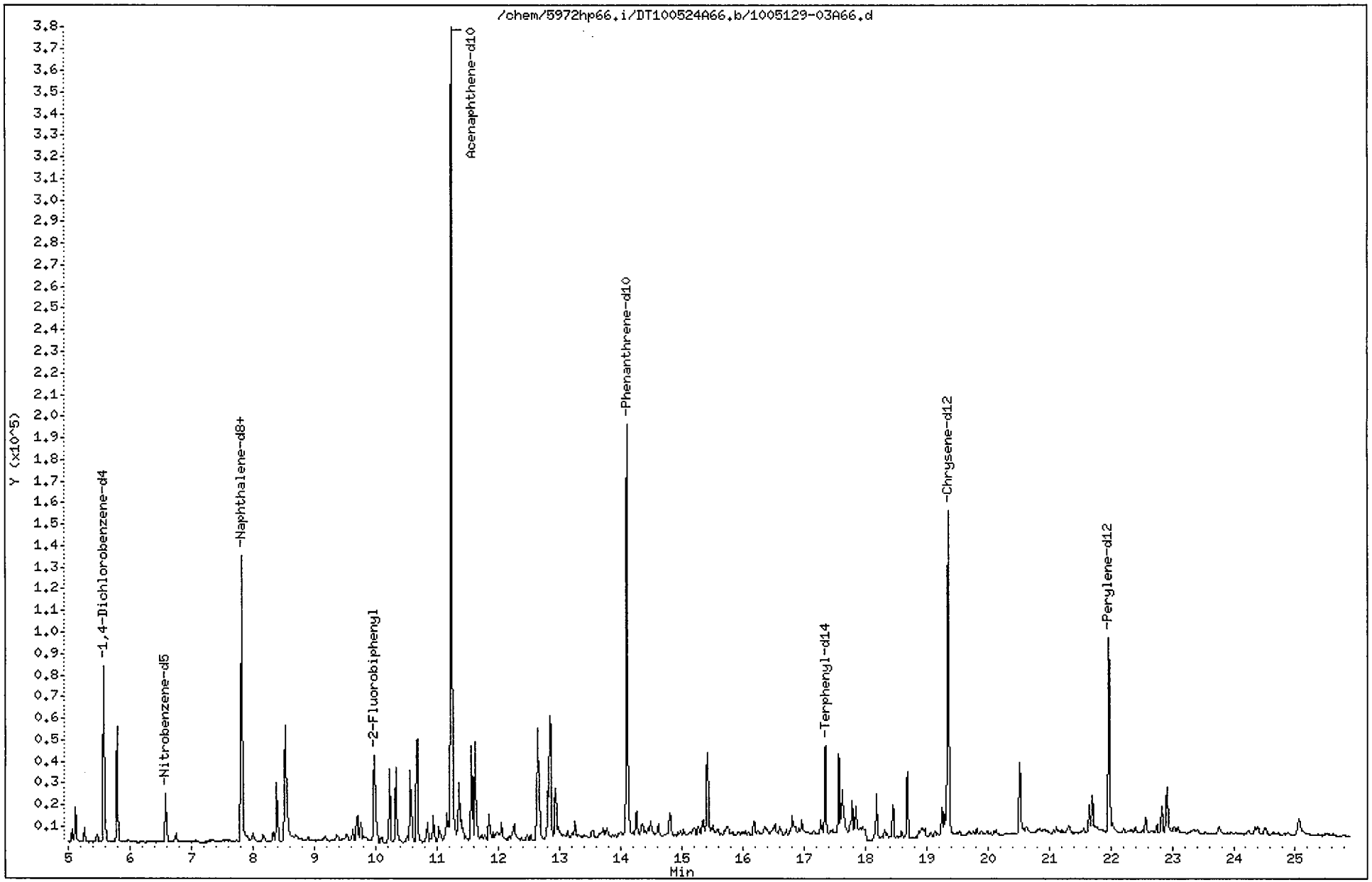
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	0.79	J
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	0.77	J
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DT100524A66.b/1005129-03A66.d
Date : 24-MAY-2010 22:19
Client ID: SS54-0-1
Sample Info: 1005129-03:2650
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2650
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100524A66.b/1005129-03A66.d
Report Date: 01-Jun-2010 16:59

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100524A66.b/1005129-03A66.d
Lab Smp Id: 1005129-03 Client Smp ID: SS54-0-1
Inj Date : 24-MAY-2010 22:19
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 1005129-03:2650
Misc Info : SS54-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100524A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 14:52 byrd Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	8.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1	1,4-Dichlorobenzene-d4	152	5.586	5.569	(1.000)	51999	2.00000		(a)
* 2	Naphthalene-d8	136	7.815	7.811	(1.000)	179245	2.00000		(a)
* 3	Acenaphthene-d10	164	11.232	11.232	(1.000)	71979	2.00000		(aM)
* 4	Phenanthrene-d10	188	14.113	14.100	(1.000)	271233	2.00000		(a)
* 5	Chrysene-d12	240	19.354	19.336	(1.000)	210907	2.00000		(a)
* 6	Perylene-d12	264	21.971	21.960	(1.000)	125927	2.00000		(a)
$ 9	Nitrobenzene-d5	82	6.590	6.573	(0.843)	25196	0.67509	12	
$ 10	2-Fluorobiphenyl	172	9.979	9.975	(1.000)	58928	0.72931	13	
$ 12	Terphenyl-d14	244	17.359	17.346	(0.897)	57474	1.10794	20	
13	Naphthalene	128	7.854	7.851	(1.005)	4611	0.04338	0.79	(a)
15	2-Methylnaphthalene	141	Compound Not Detected.						
17	Acenaphthylene	152	11.245	10.919	(1.000)	3243	0.04249	0.77	(a)
18	Acenaphthene	154	Compound Not Detected.						

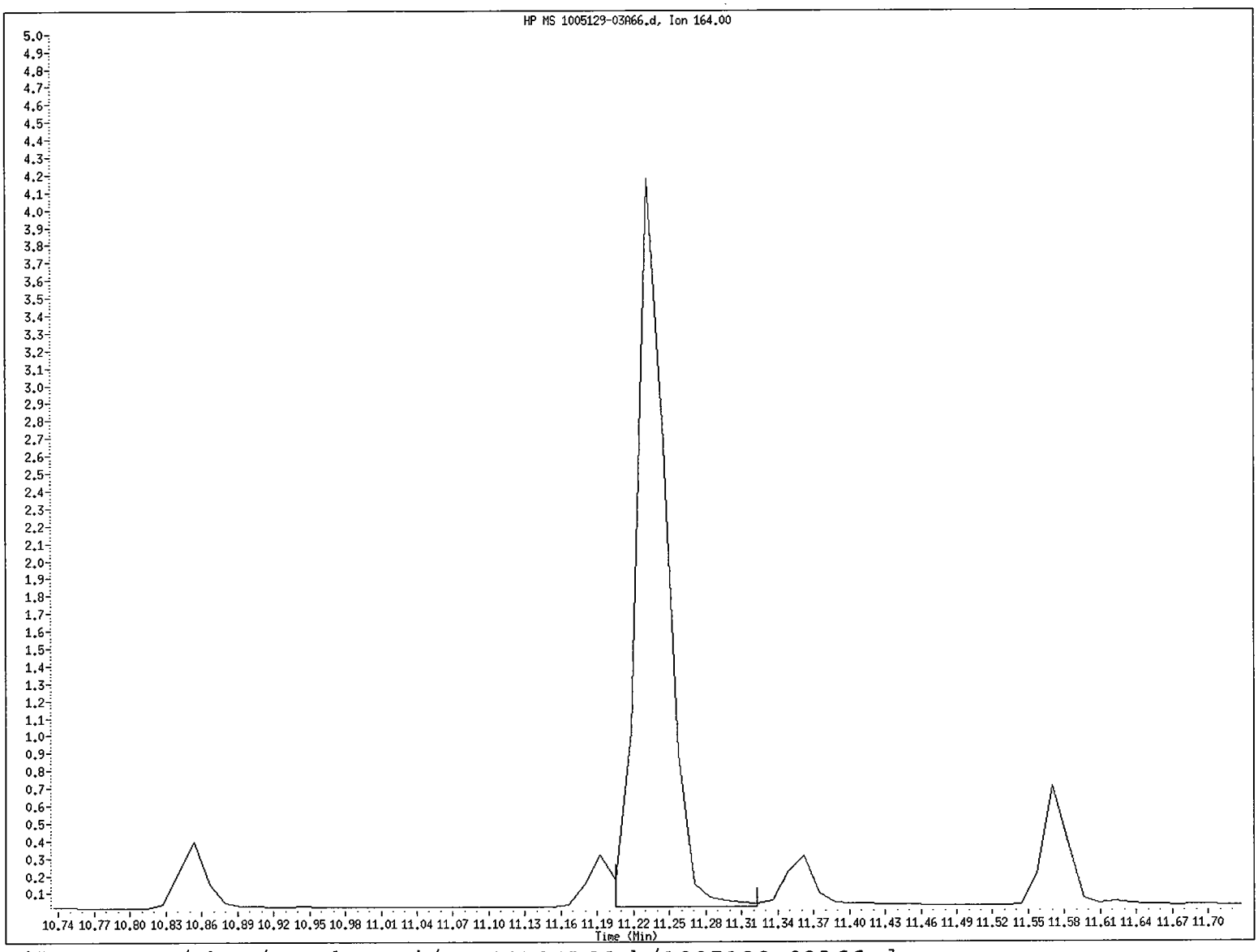
Data File: /chem/5972hp66.i/DT100524A66.b/1005129-03A66.d
Report Date: 01-Jun-2010 16:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Acenaphthene-d10 CAS Number 15067-26-2 Area = 71979 Manually integrated



File name: /chem/5972hp66.i/DT100524A66.b/1005129-03A66.d
Client ID: SS54-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 24-MAY-2010 22:19
Retention Time: 11.23
Operator ID: 2650

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS54-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-03JA66
Analyst: 2730

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

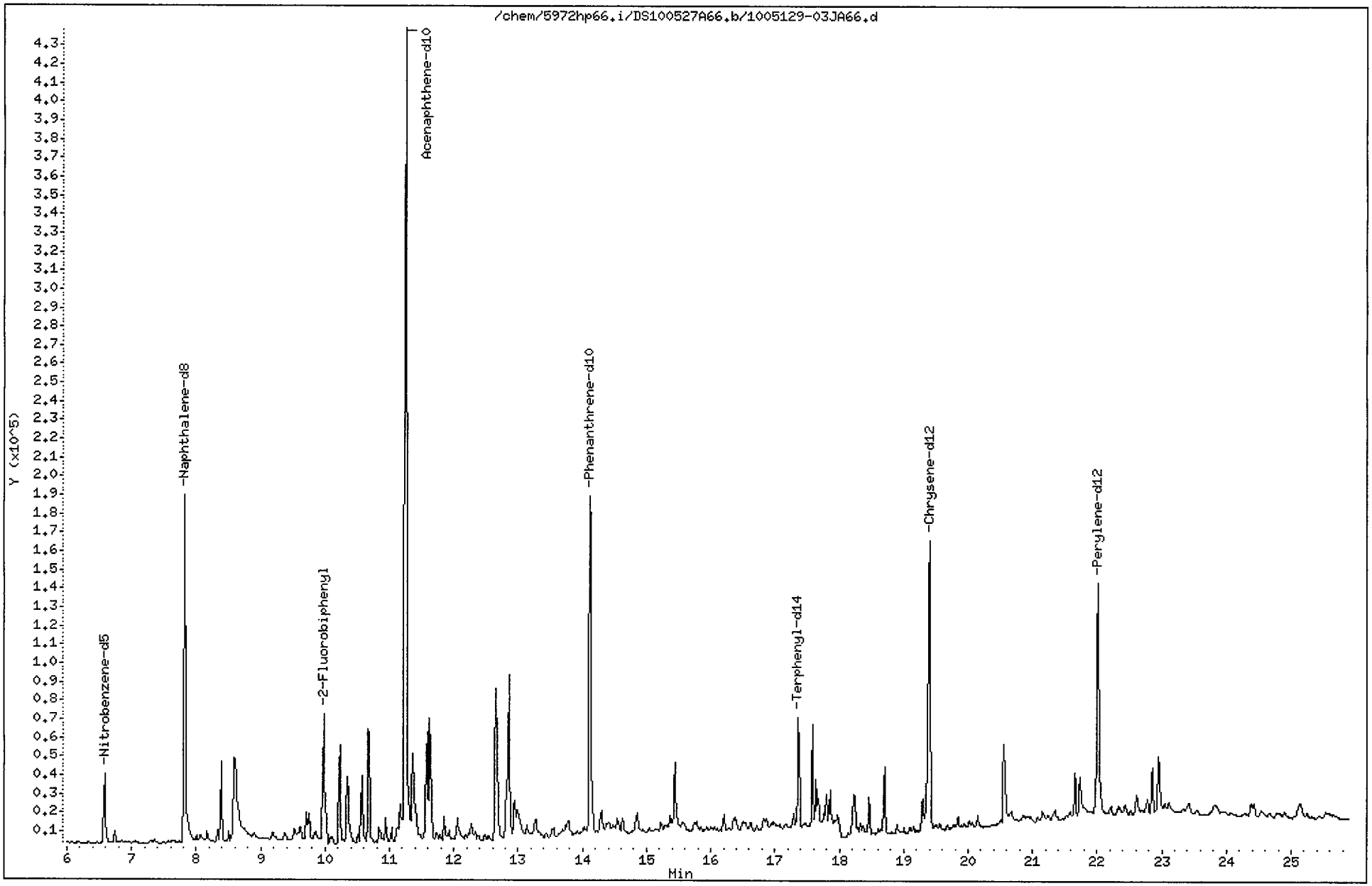
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527A66.b/1005129-03JA66.d
Date : 27-MAY-2010 22:25
Client ID: SS54-0-1RE
Sample Info: 1005129-03:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527A66.b/1005129-03JA66.d
Report Date: 01-Jun-2010 17:05

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527A66.b/1005129-03JA66.d
Lab Smp Id: 1005129-03 Client Smp ID: SS54-0-1RE
Inj Date : 27-MAY-2010 22:25
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005129-03:2730
Misc Info : SS54-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 16:49 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	8.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.583	5.557	(1.000)	92763	2.00000		(a)
*	2 Naphthalene-d8	136	7.825	7.812	(1.000)	316779	2.00000		(a)
*	3 Acenaphthene-d10	164	11.243	11.230	(1.000)	98482	2.00000		(aM)
*	4 Phenanthrene-d10	188	14.127	14.114	(1.000)	297289	2.00000		(a)
*	5 Chrysene-d12	240	19.398	19.344	(1.000)	284972	2.00000		(a)
*	6 Perylene-d12	264	22.004	21.972	(1.000)	213377	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.587	6.574	(0.842)	42086	0.59705	11	
$	10 2-Fluorobiphenyl	172	9.976	9.963	(1.000)	99745	0.97059	18	
$	12 Terphenyl-d14	244	17.360	17.347	(0.895)	79356	0.76641	14	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

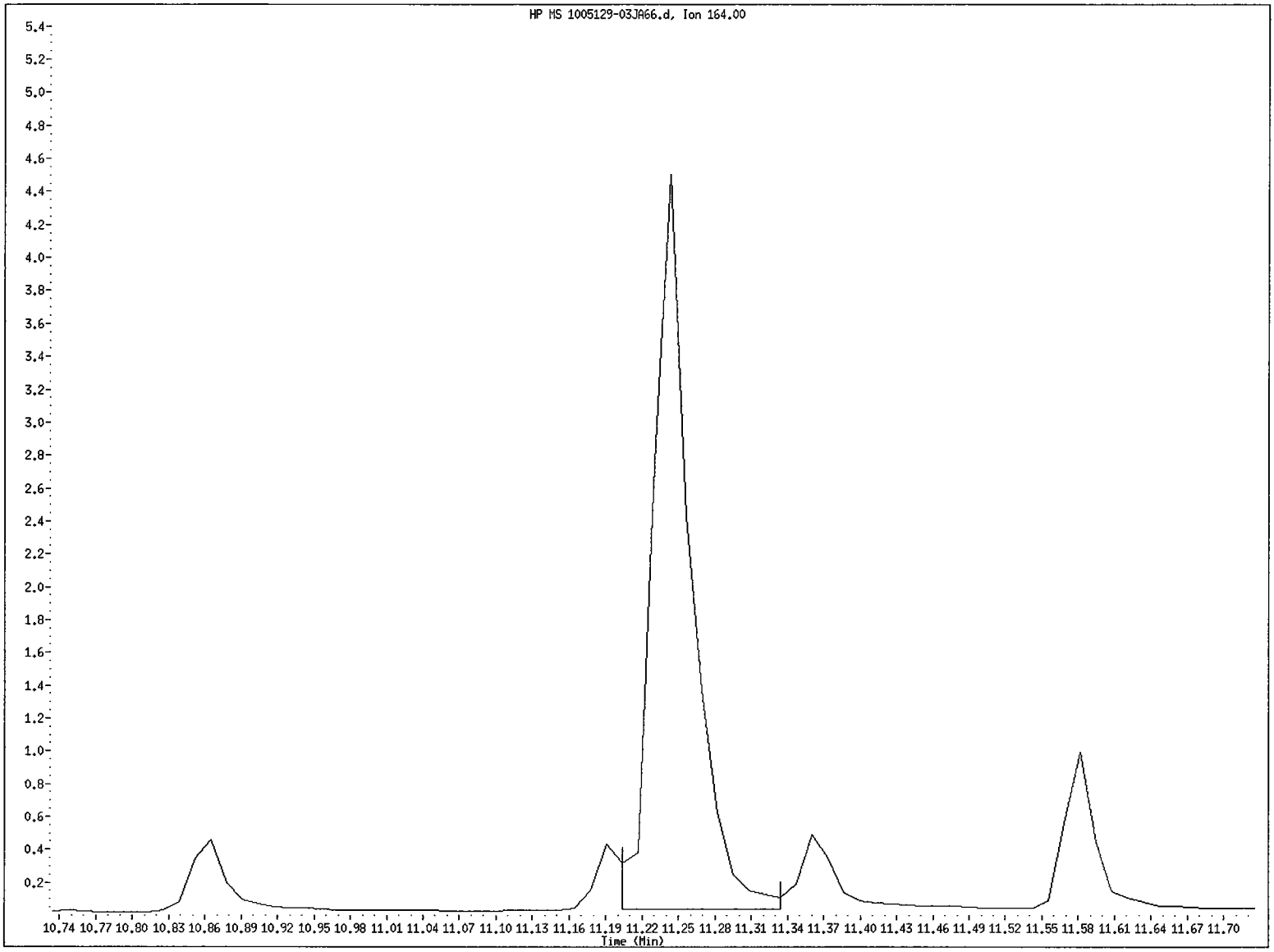
Data File: /chem/5972hp66.i/DS100527A66.b/1005129-03JA66.d
Report Date: 01-Jun-2010 17:05

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Acenaphthene-d10 CAS Number 15067-26-2 Area = 98482 Manually integrated



File name: /chem/5972hp66.i/DS100527A66.b/1005129-03JA66.d
Client ID: SS54-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 22:25
Retention Time: 11.24
Operator ID: 2730

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS55-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-01J2C66
Analyst: 2743

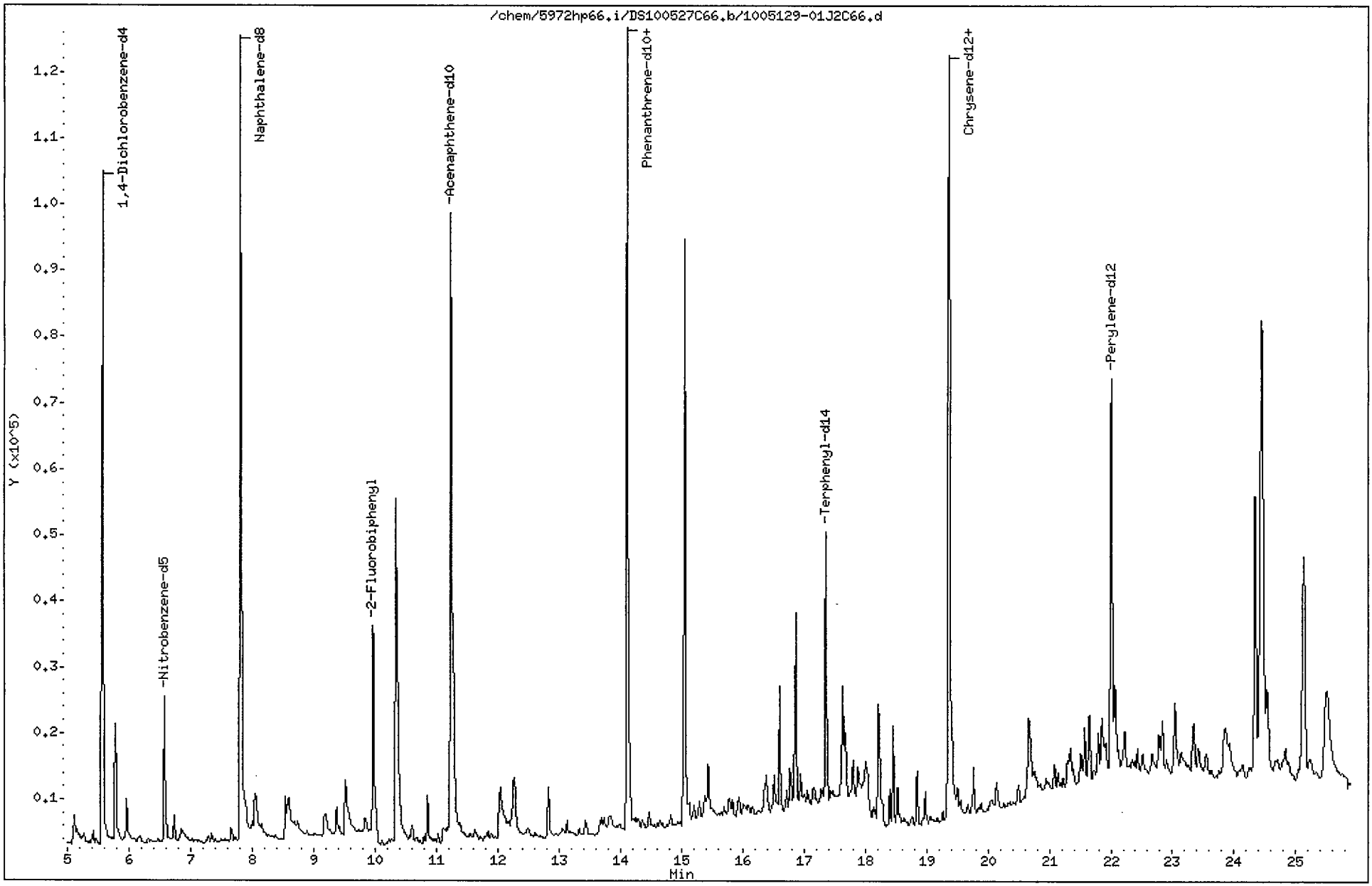
% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	ND	U
91-57-6	2-Methylnaphthalene	1.0	13	ND	U
208-96-8	Acenaphthylene	0.81	13	ND	U
83-32-9	Acenaphthene	0.91	13	ND	U
86-73-7	Fluorene	0.68	13	ND	U
85-01-8	Phenanthrene	2.0	13	2.1	J
120-12-7	Anthracene	0.66	13	ND	U
206-44-0	Fluoranthene	2.0	13	ND	U
129-00-0	Pyrene	0.86	13	1.4	J
56-55-3	Benzo(a)anthracene	0.86	13	0.86	J
218-01-9	Chrysene	0.96	13	1.3	J
205-99-2	Benzo(b)fluoranthene	0.86	13	1.3	J
207-08-9	Benzo(k)fluoranthene	0.66	13	1.3	J
50-32-8	Benzo(a)pyrene	0.58	13	0.73	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	0.98	J
53-70-3	Dibenzo(a,h)anthracene	0.51	13	ND	U
191-24-2	Benzo(g,h,i)perylene	0.58	13	0.74	J

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Date : 28-MAY-2010 05:05
Client ID: SS55-00-01
Instrument: 5972hp66.i
Sample Info: 1005129-01:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Report Date: 02-Jun-2010 09:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Lab Smp Id: 1005129-01 Client Smp ID: SS55-00-01
Inj Date : 28-MAY-2010 05:05
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-01:2743
Misc Info : SS55-00-01
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	34.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.570	5.560	(1.000)	56154	2.00000	
*	2 Naphthalene-d8	136	7.812	7.815	(1.000)	171472	2.00000	
*	3 Acenaphthene-d10	164	11.230	11.231	(1.000)	86512	2.00000	
*	4 Phenanthrene-d10	188	14.114	14.126	(1.000)	179353	2.00000	
*	5 Chrysene-d12	240	19.362	19.371	(1.000)	159281	2.00000	
*	6 Perylene-d12	264	22.005	22.004	(1.000)	99720	2.00000	
$	9 Nitrobenzene-d5	82	6.574	6.576	(0.841)	25310	0.66333	17
$	10 2-Fluorobiphenyl	172	9.976	9.978	(0.888)	58351	0.64636	16
$	12 Terphenyl-d14	244	17.361	17.372	(0.897)	52742	0.91133	23
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

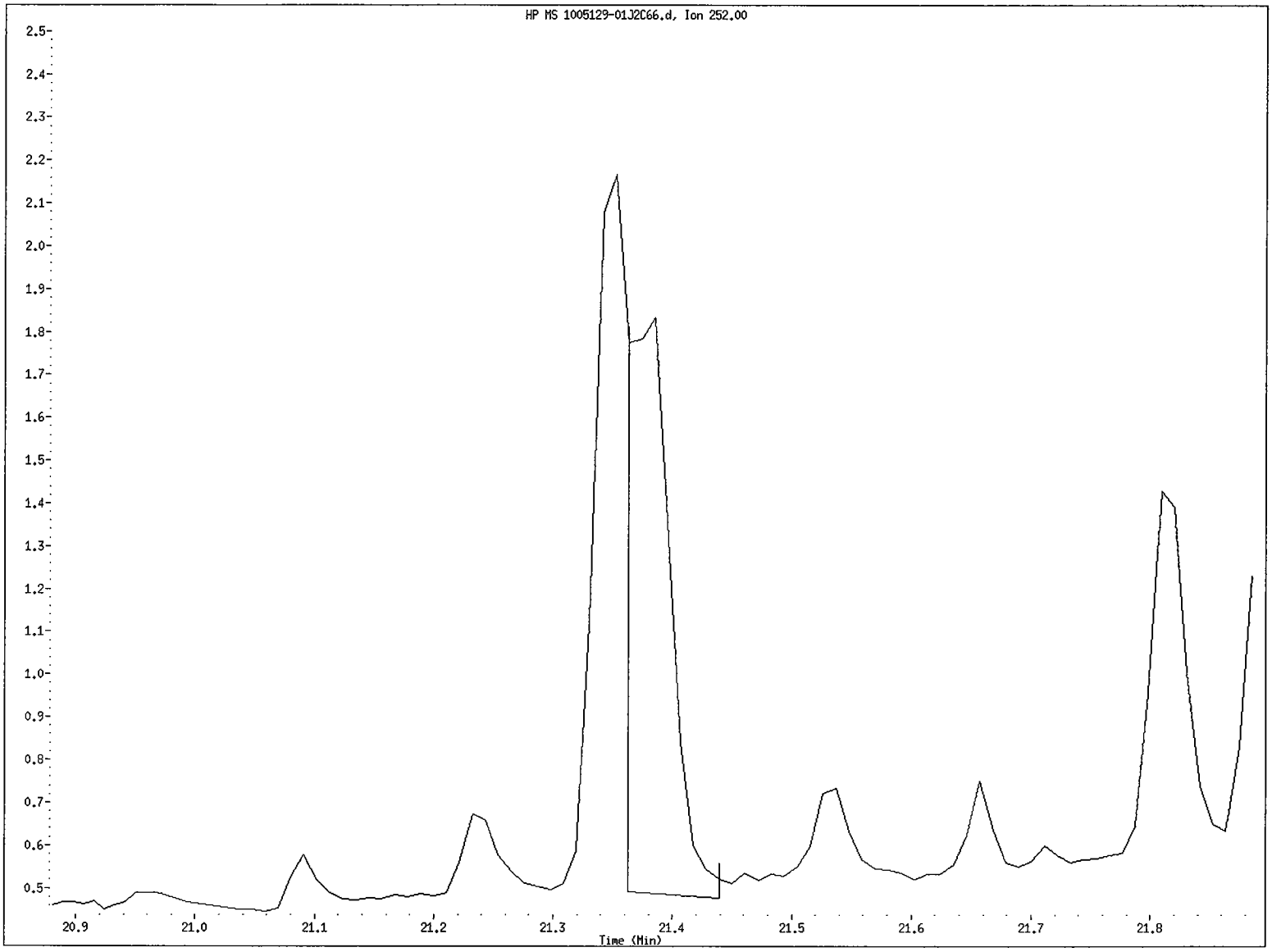
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Report Date: 02-Jun-2010 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.153	14.165	(1.003)	9145	0.08177	2.1(a)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.943	16.942	(0.875)	6256	0.05439	1.4(a)
29 Benzo(a)anthracene	228	19.327	19.336	(0.998)	2945	0.03401	0.86(a)
30 Chrysene	228	19.406	19.414	(1.002)	4659	0.04968	1.3(a)
31 Benzo(b)fluoranthene	252	21.352	21.351	(0.970)	3379	0.05138	1.3(a)
32 Benzo(k)fluoranthene	252	21.385	21.383	(0.972)	3515	0.04967	1.3(aM)
33 Benzo(a)pyrene	252	21.896	21.895	(0.995)	1718	0.02899	0.73(a)
34 Indeno(1,2,3-cd)pyrene	276	24.084	24.083	(1.094)	2029	0.03881	0.98(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.683	24.671	(1.122)	1707	0.02946	0.74(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

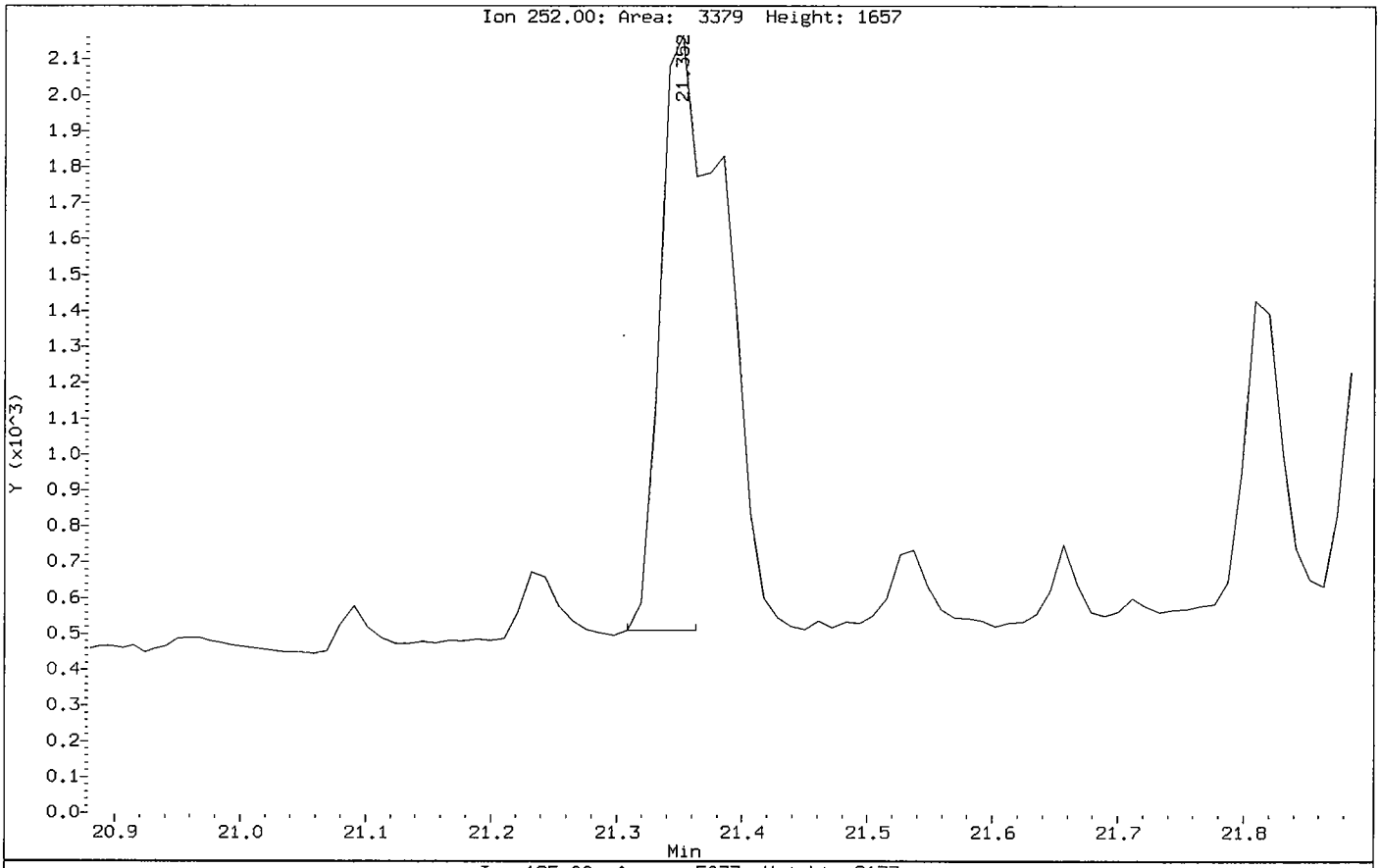
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 3515 Manually integrated

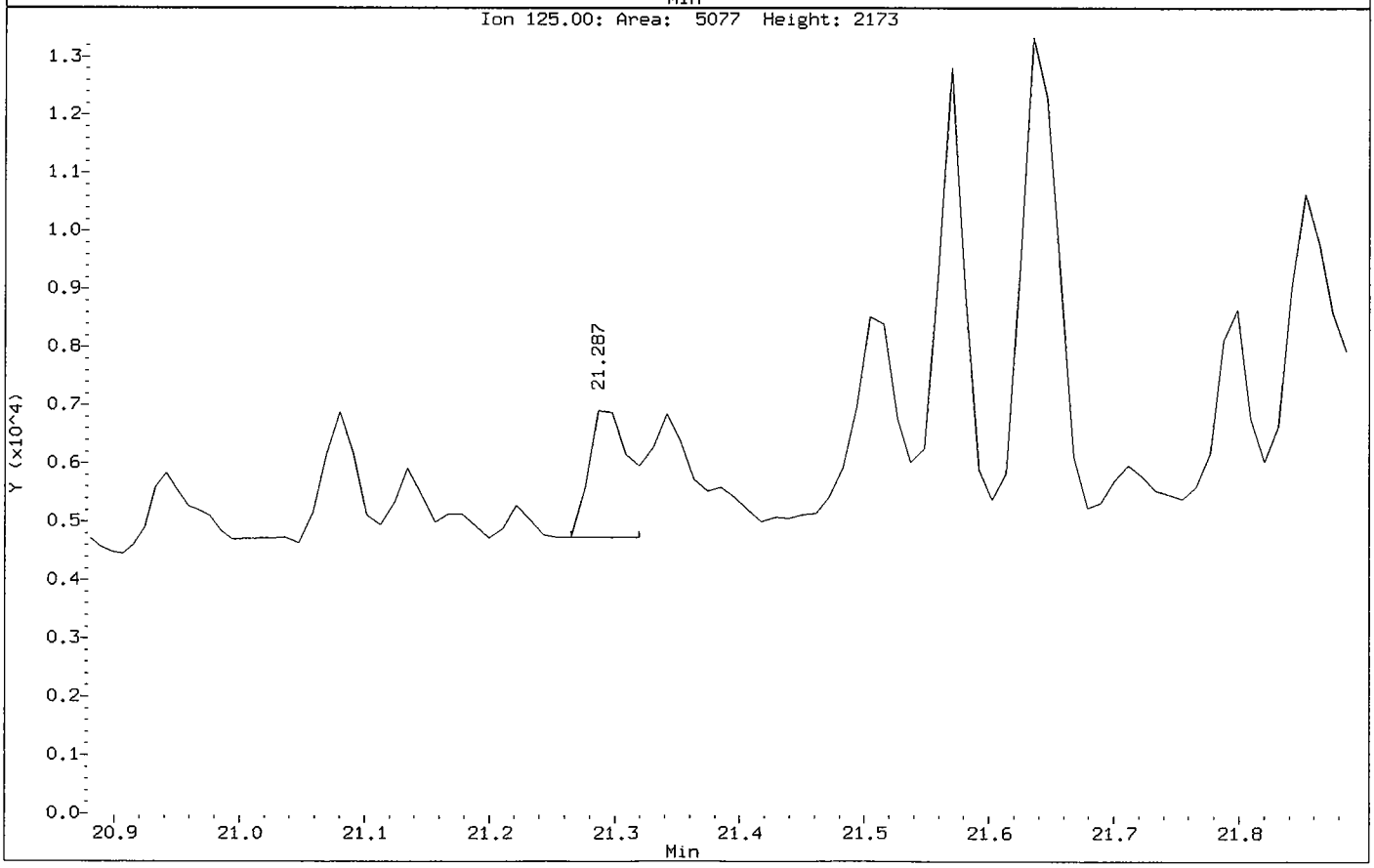


File name: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Client ID: SS55-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 05:05
Retention Time: 21.38
Operator ID: 2743

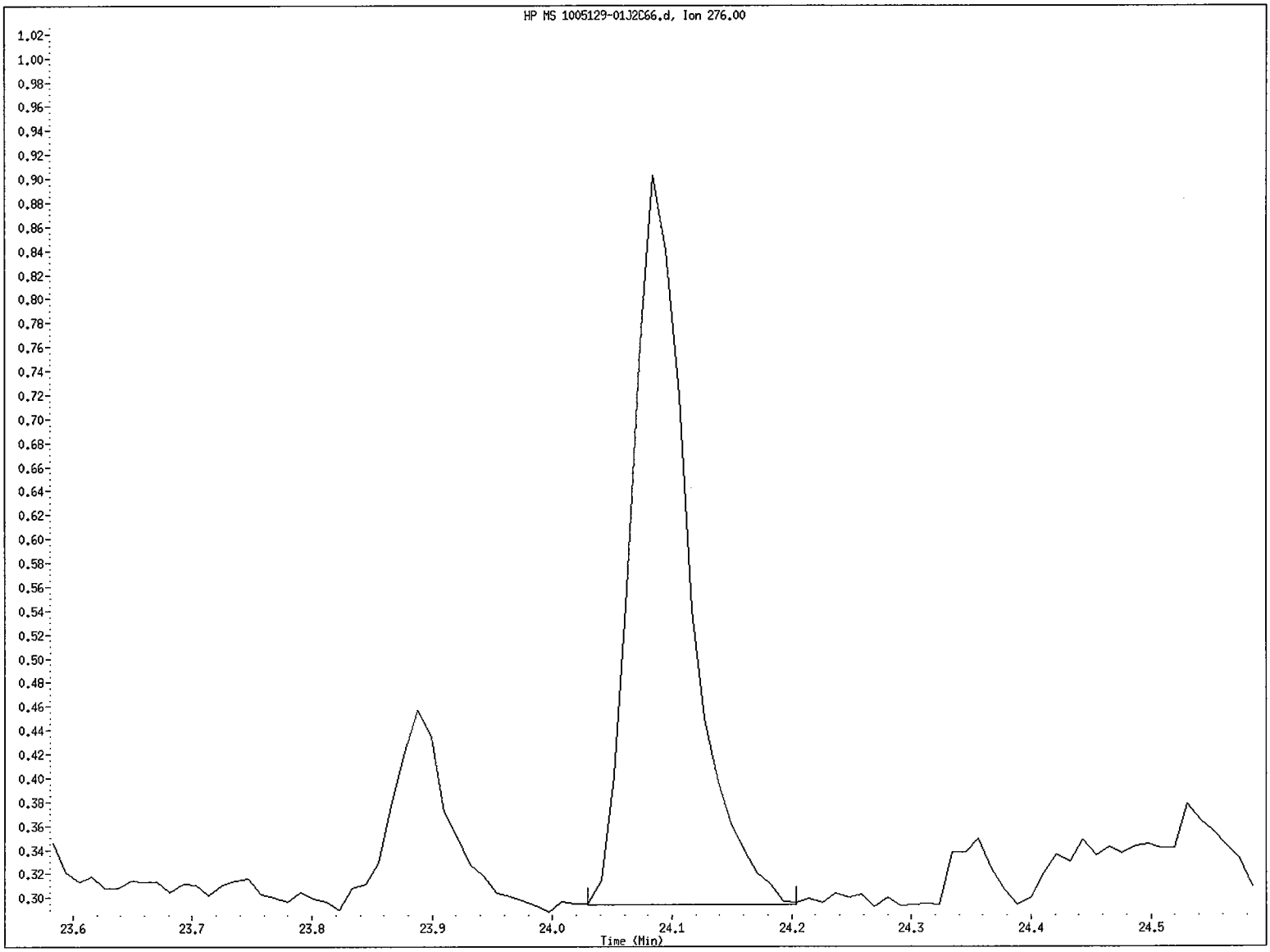
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Injection Date: 28-MAY-2010 05:05
Instrument: 5972hp66.i
Client Sample ID: SS55-00-01

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





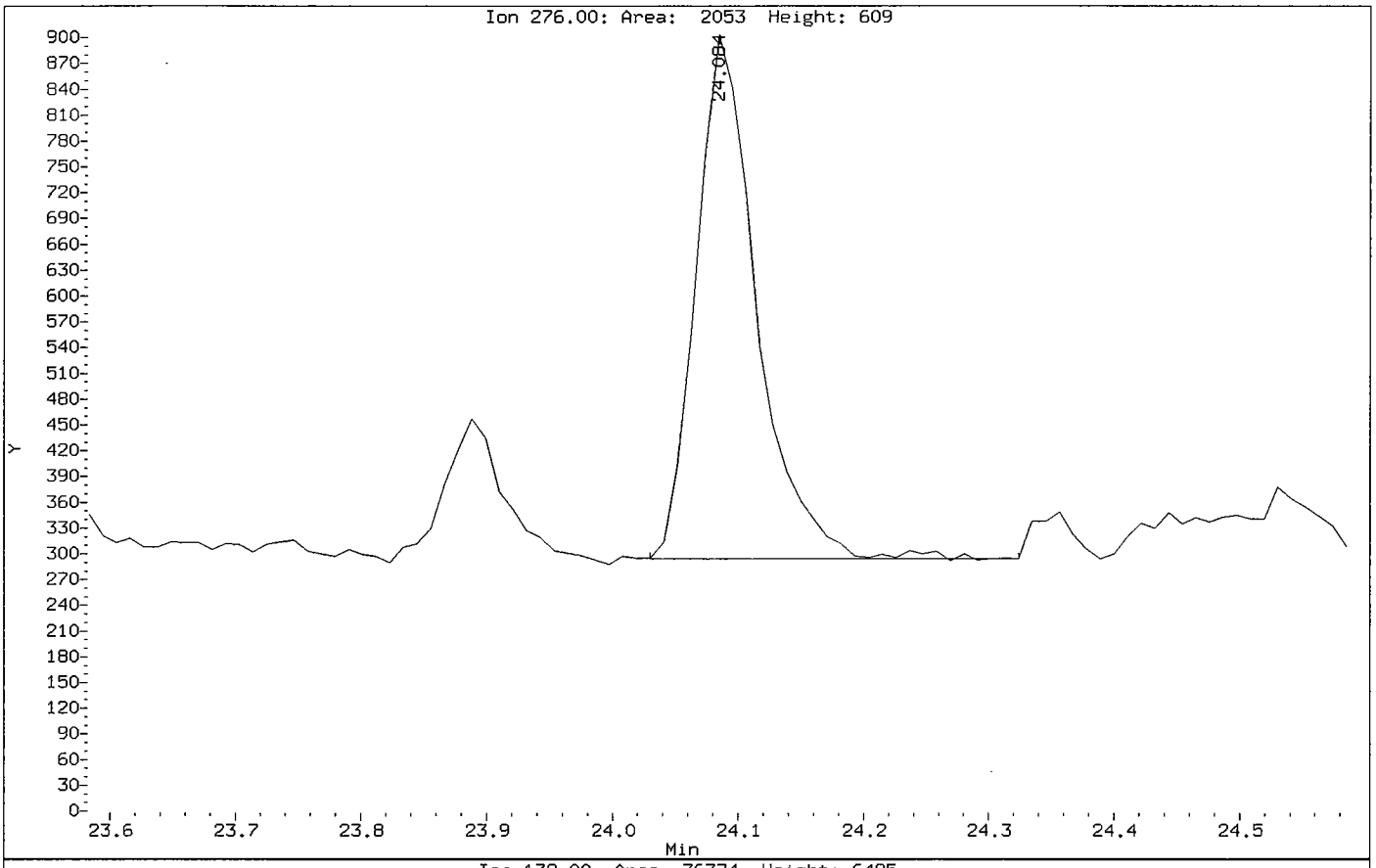
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 2029 Manually integrated

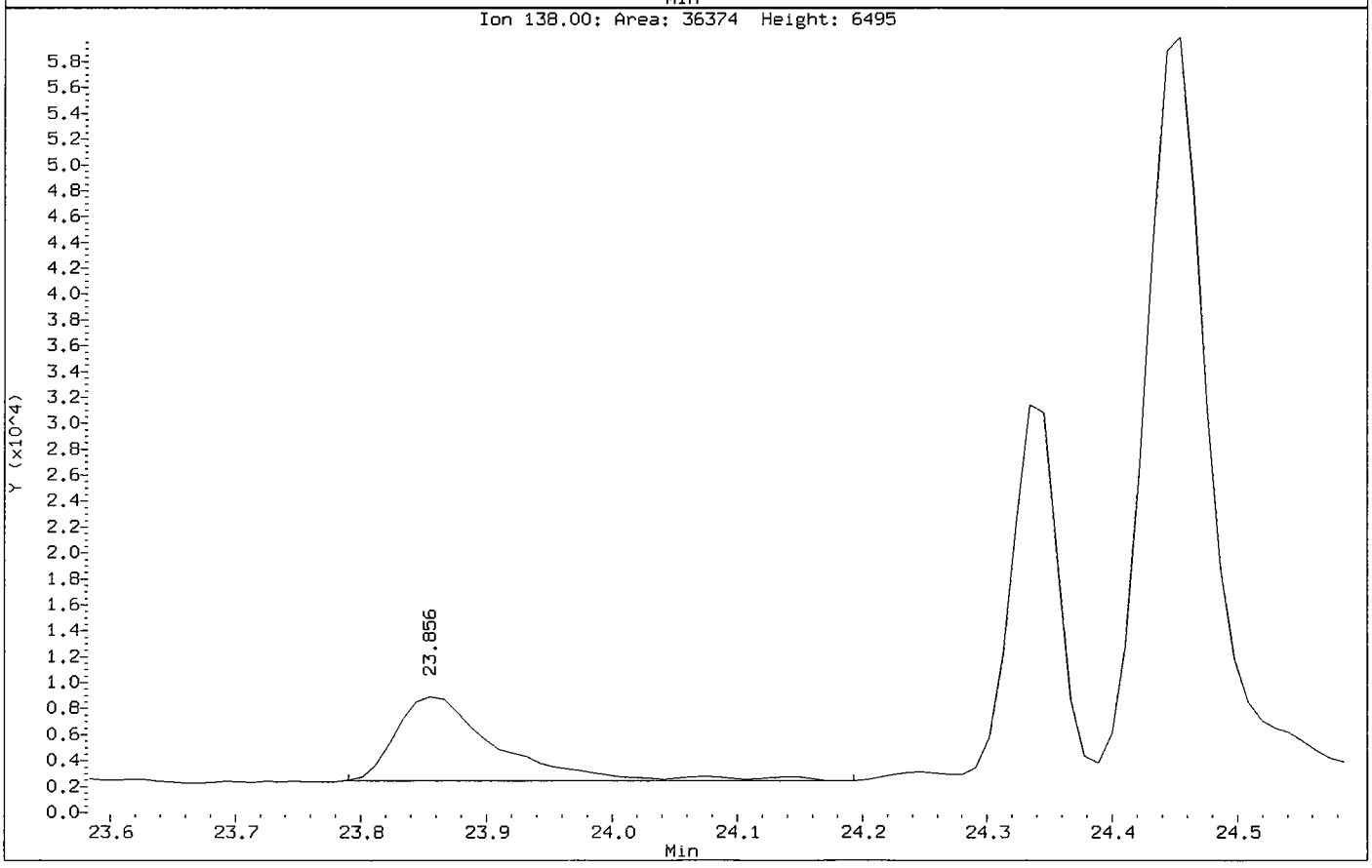


File name: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Client ID: SS55-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 05:05
Retention Time: 24.08
Operator ID: 2743

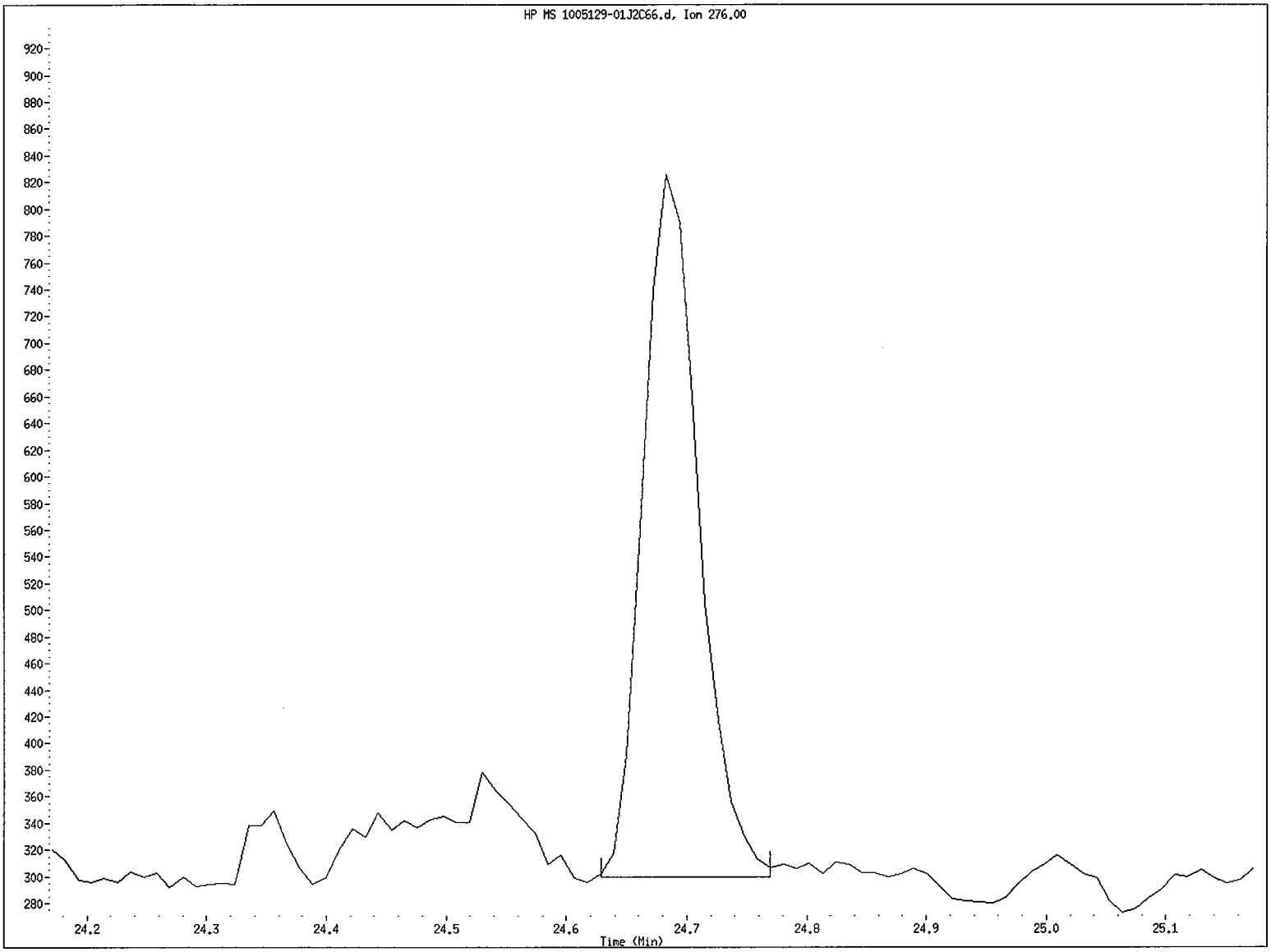
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Injection Date: 28-MAY-2010 05:05
Instrument: 5972hp66.i
Client Sample ID: SS55-00-01

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





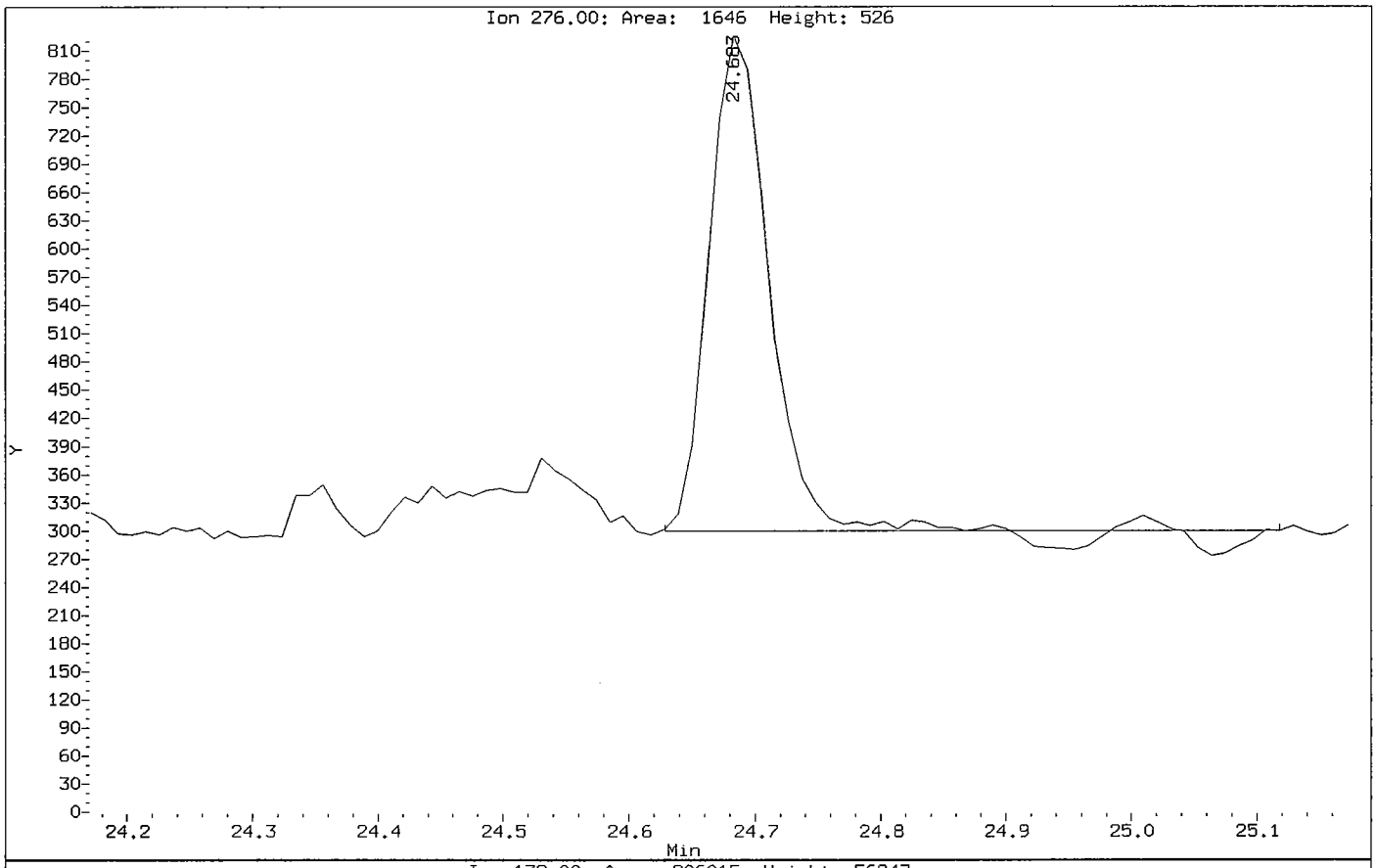
Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 1707 Manually integrated

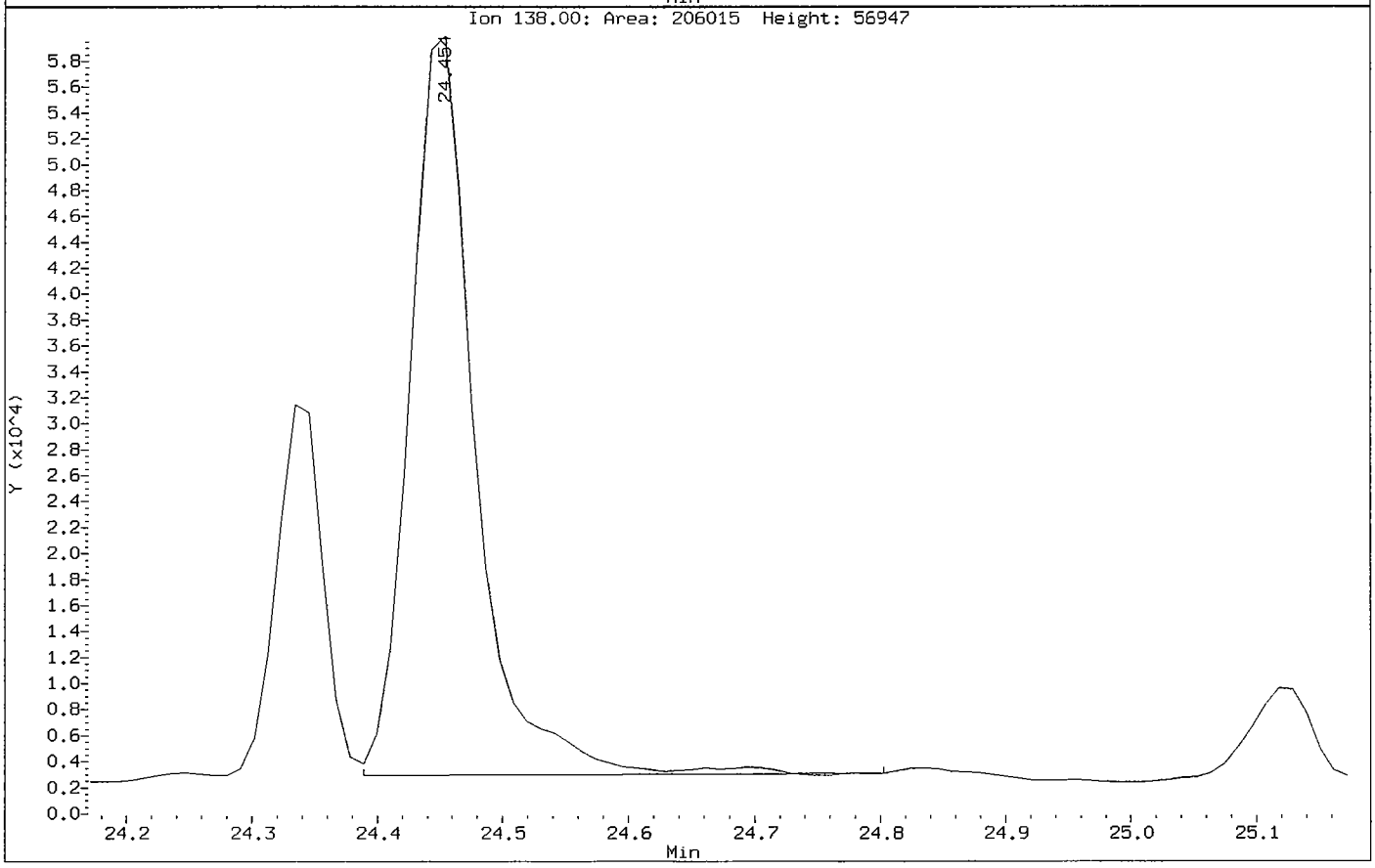


File name: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Client ID: SS55-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 05:05
Retention Time: 24.68
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d
Injection Date: 28-MAY-2010 05:05
Instrument: 5972hp66.i
Client Sample ID: SS55-00-01

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d

Date : 28-MAY-2010 05:05

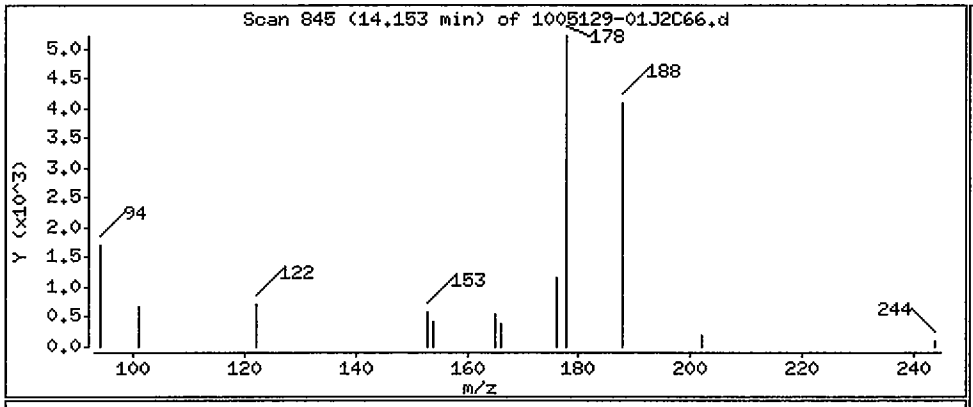
Client ID: SS55-00-01 Instrument: 5972hp66.i

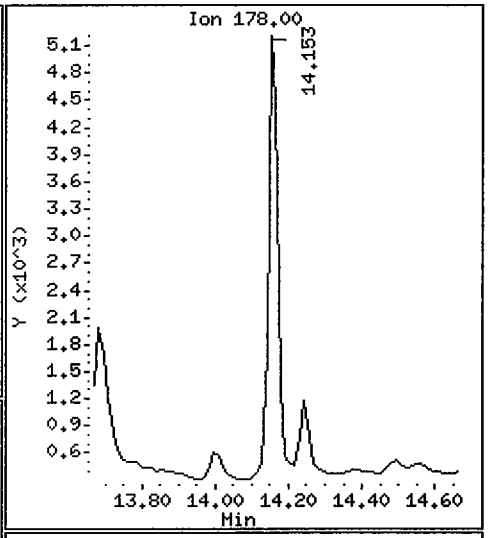
Sample Info: 1005129-01:2743

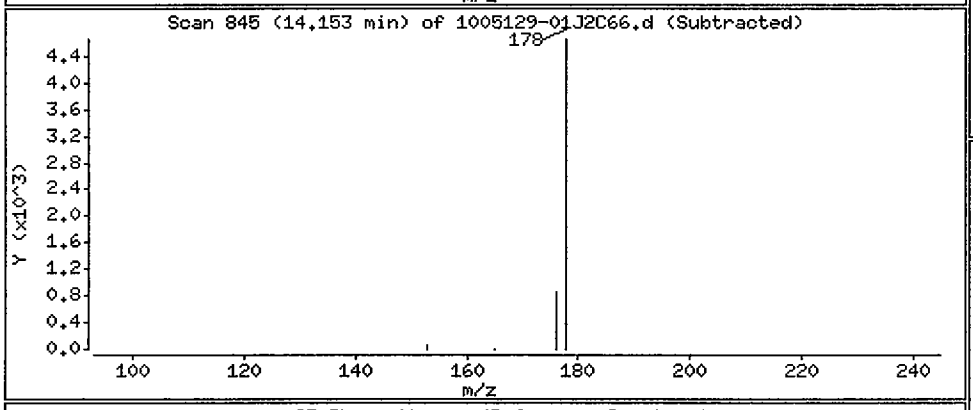
Volume Injected (uL): 2.0 Operator: 2743

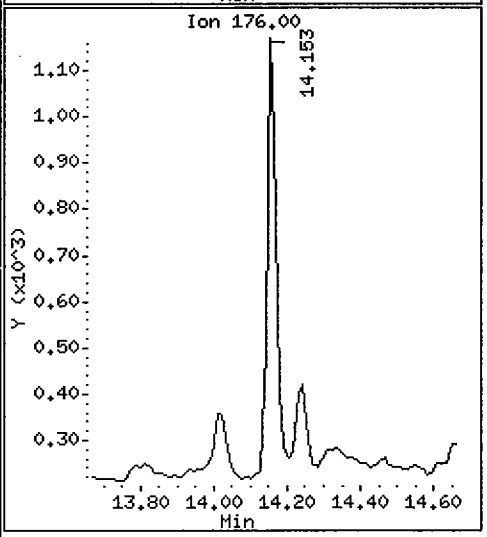
Column phase: Rtx-5MS Column diameter: 0.32

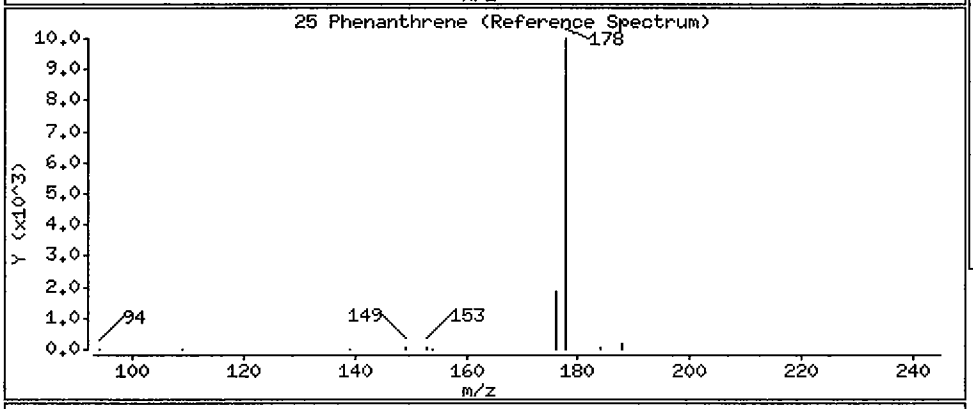
25 Phenanthrene Concentration: 2.1 ug/Kg

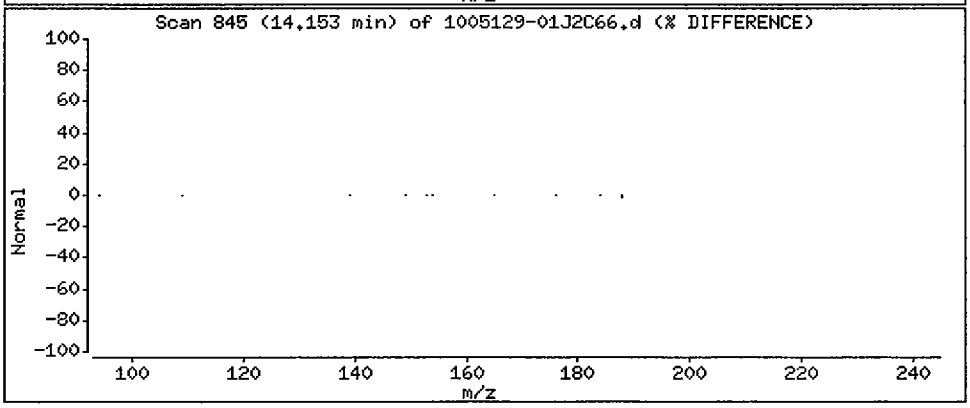












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d

Date : 28-MAY-2010 05:05

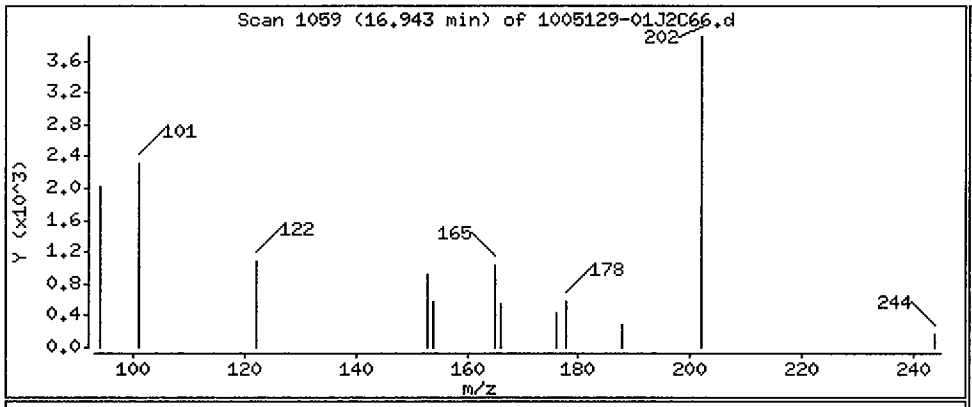
Client ID: SS55-00-01 Instrument: 5972hp66.i

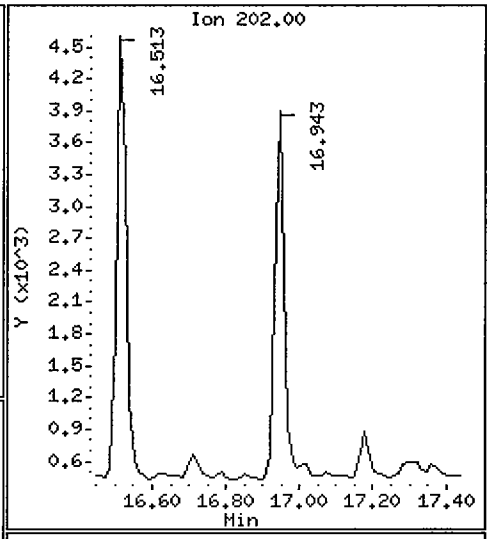
Sample Info: 1005129-01:2743

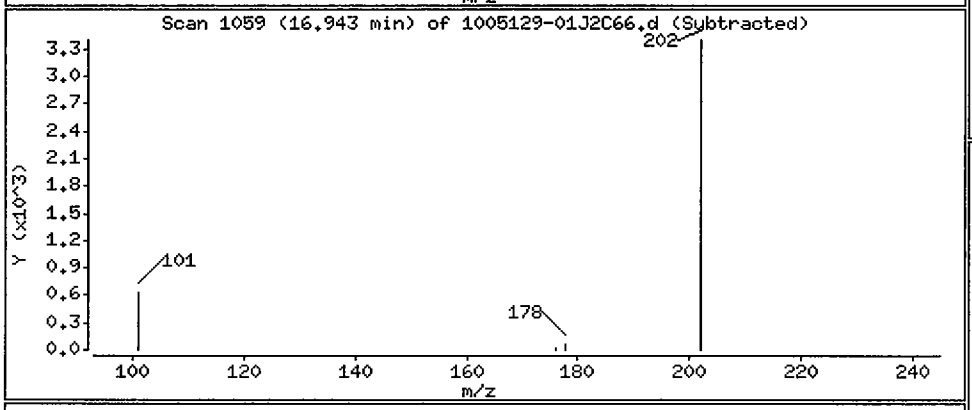
Volume Injected (uL): 2.0 Operator: 2743

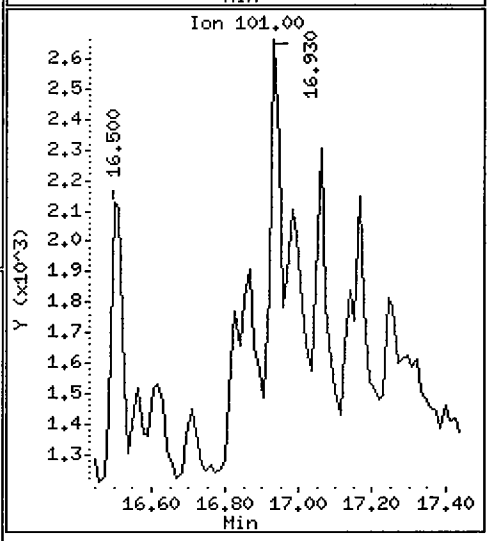
Column phase: Rtx-5MS Column diameter: 0.32

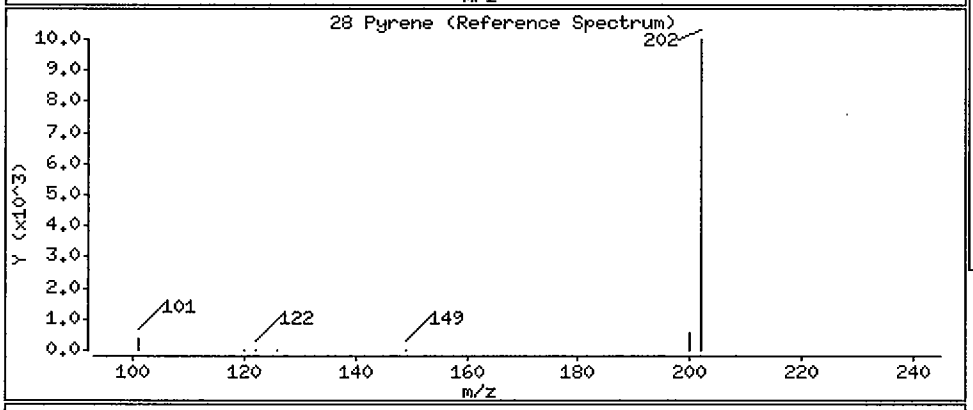
28 Pyrene Concentration: 1.4 ug/Kg

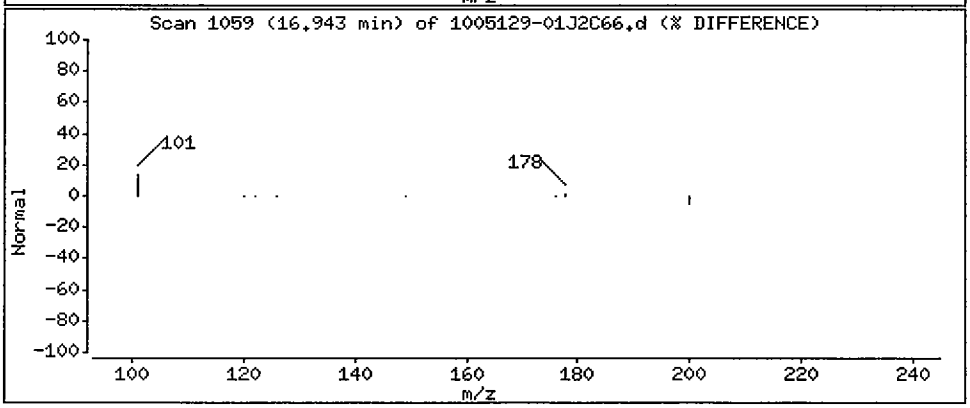












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d

Date : 28-MAY-2010 05:05

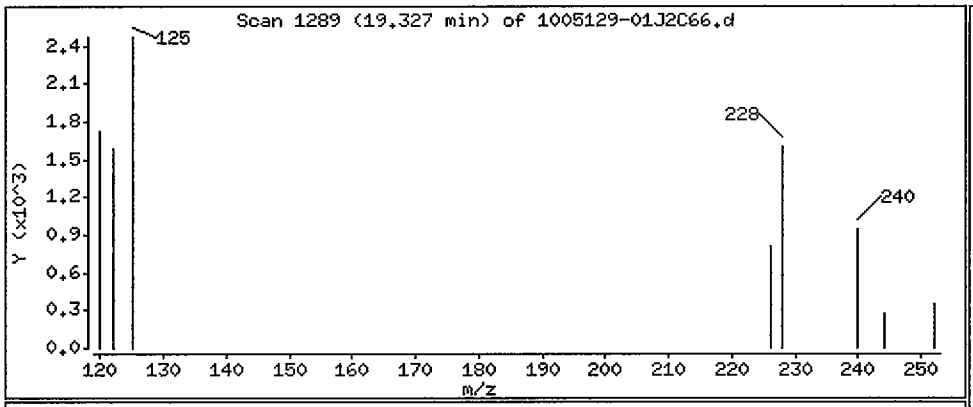
Client ID: SS55-00-01 Instrument: 5972hp66.i

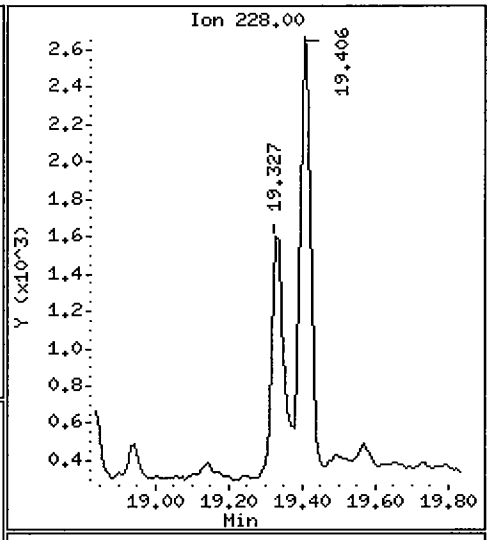
Sample Info: 1005129-01:2743

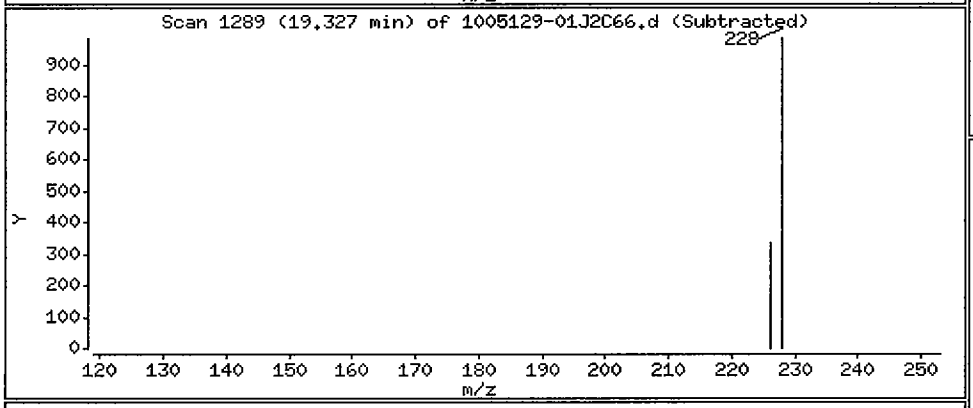
Volume Injected (uL): 2.0 Operator: 2743

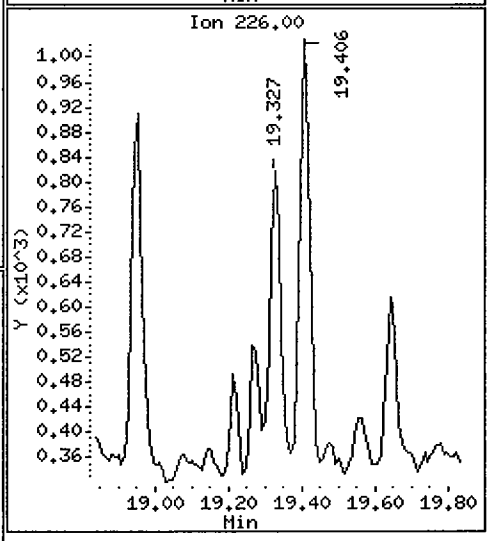
Column phase: Rtx-5MS Column diameter: 0.32

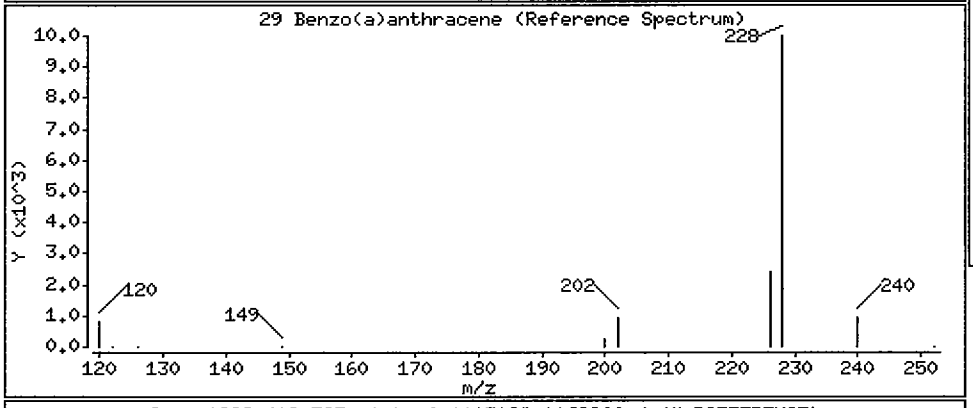
29 Benzo(a)anthracene Concentration: 0.86 ug/Kg

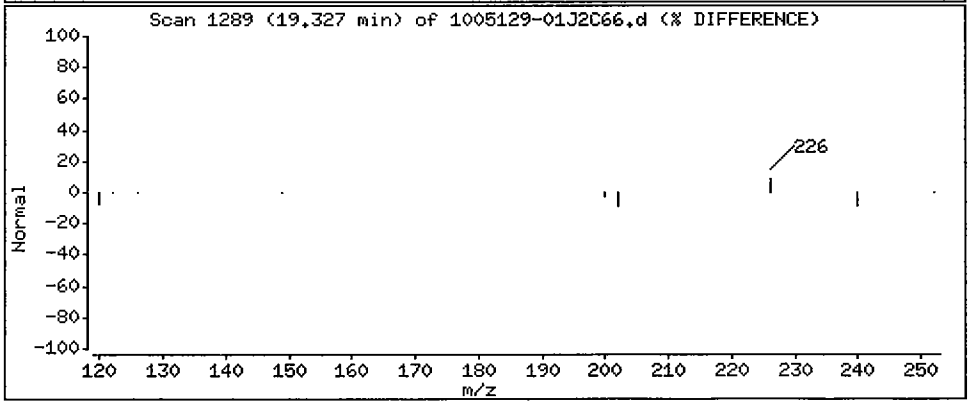












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d

Date : 28-MAY-2010 05:05

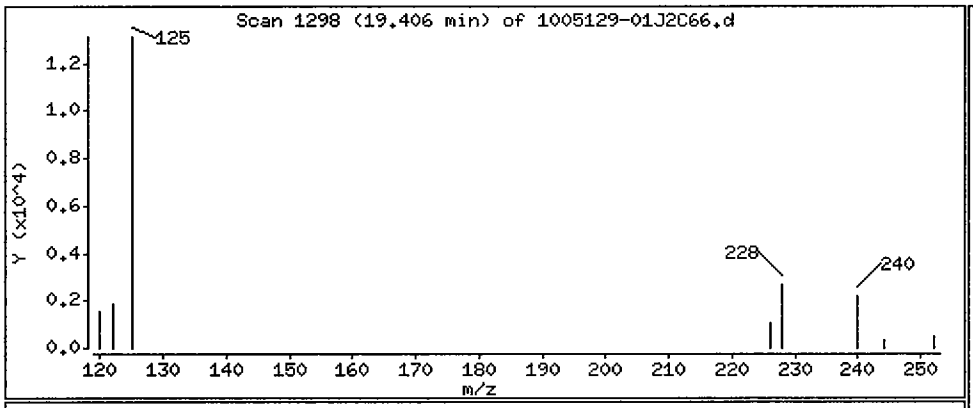
Client ID: SS55-00-01 Instrument: 5972hp66.i

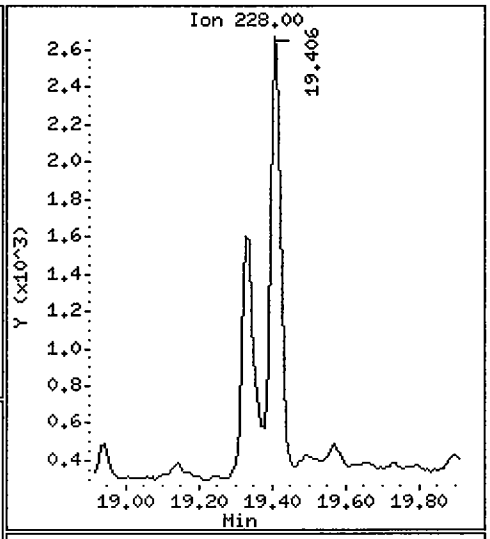
Sample Info: 1005129-01:2743

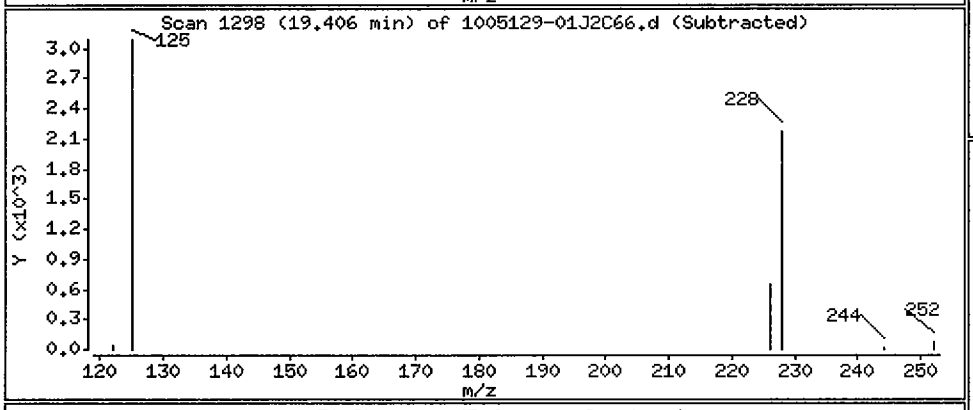
Volume Injected (uL): 2.0 Operator: 2743

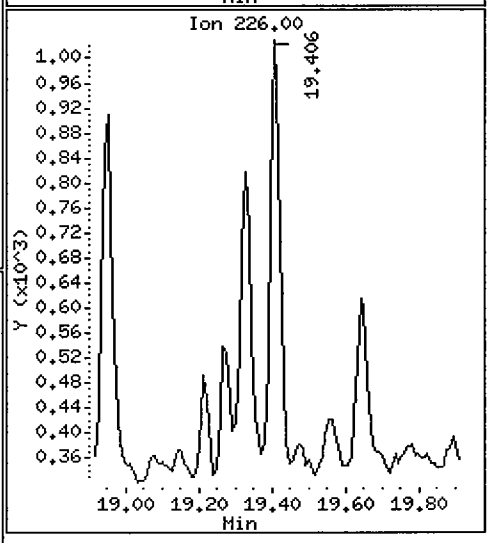
Column phase: Rtx-5MS Column diameter: 0.32

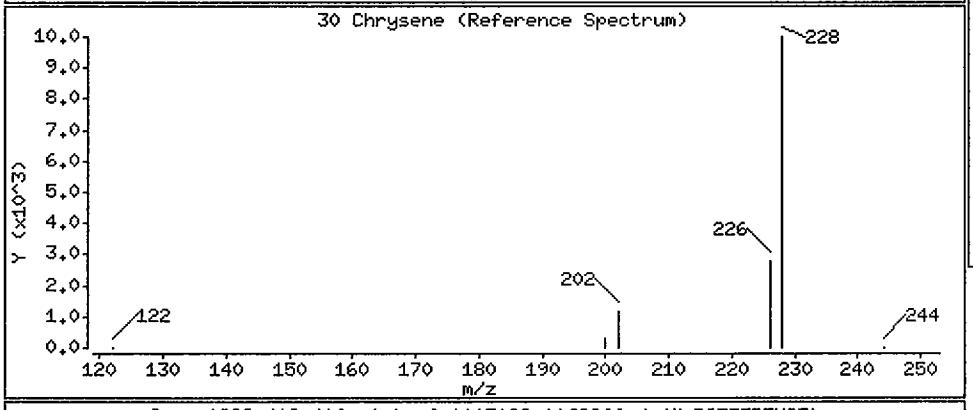
30 Chrysene Concentration: 1.3 ug/Kg

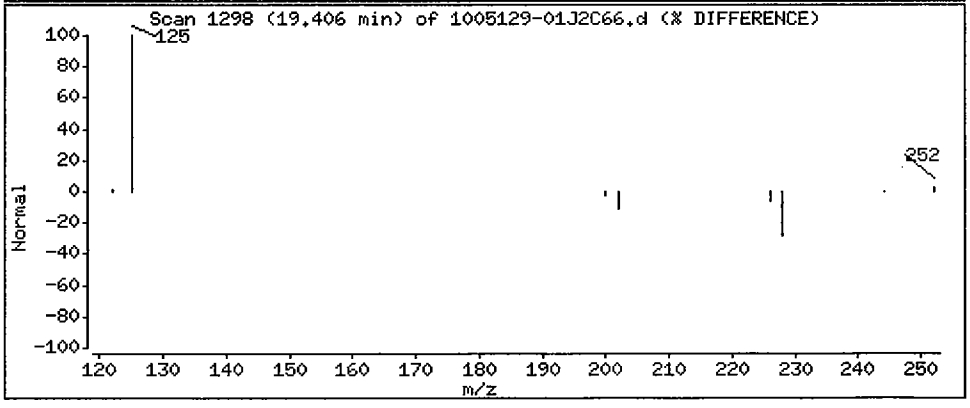












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d

Date : 28-MAY-2010 05:05

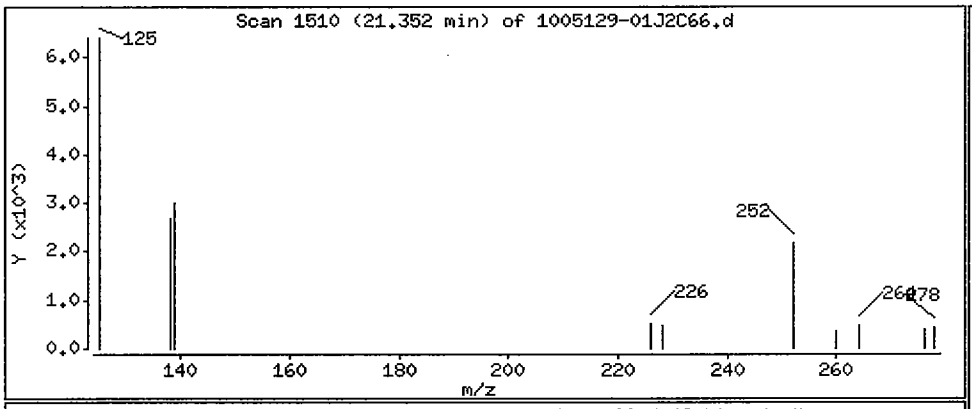
Client ID: SS55-00-01 Instrument: 5972hp66.i

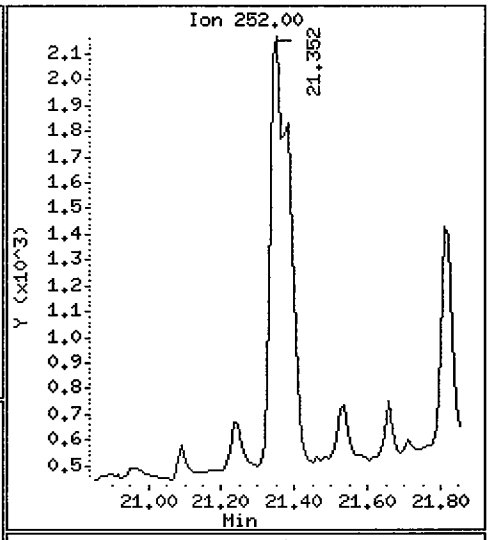
Sample Info: 1005129-01:2743

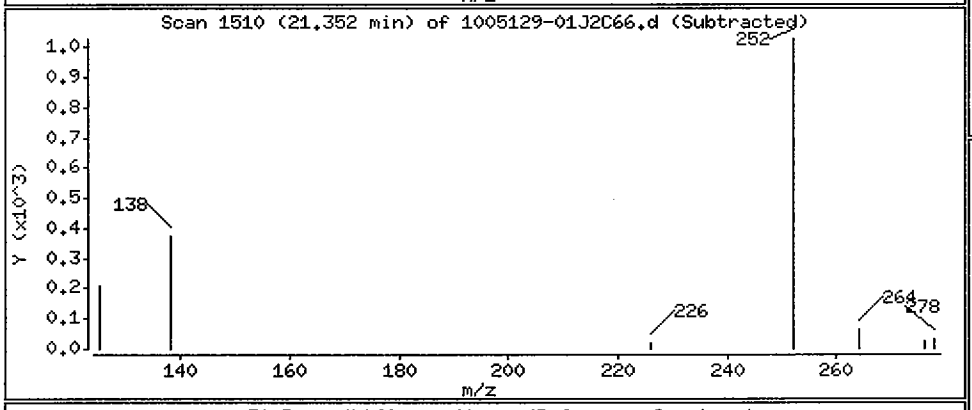
Volume Injected (uL): 2.0 Operator: 2743

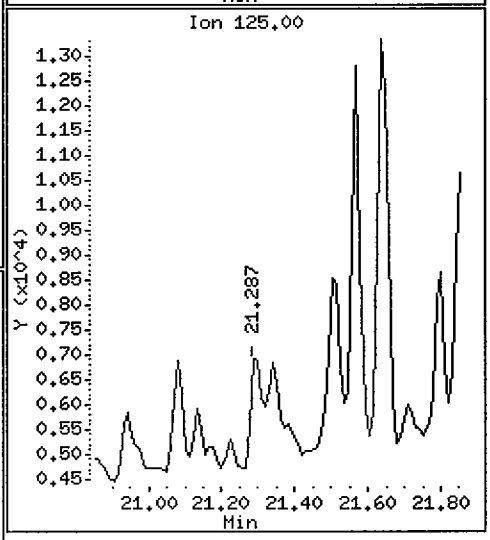
Column phase: Rtx-5MS Column diameter: 0.32

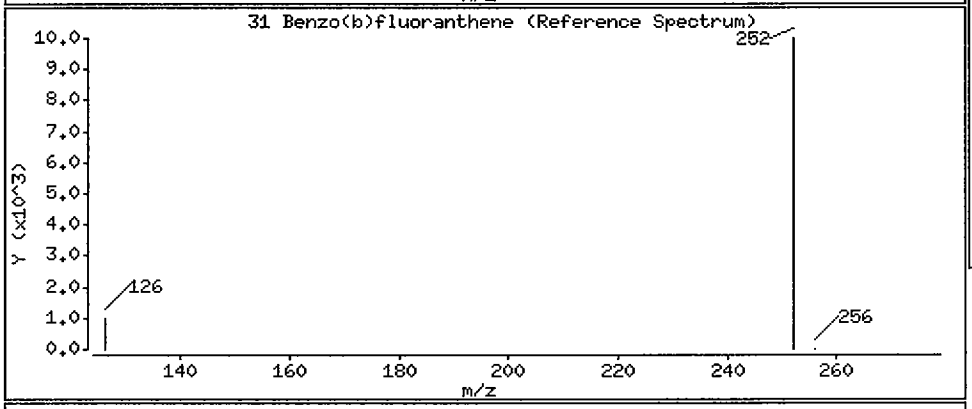
31 Benzo(b)fluoranthene Concentration: 1.3 ug/Kg

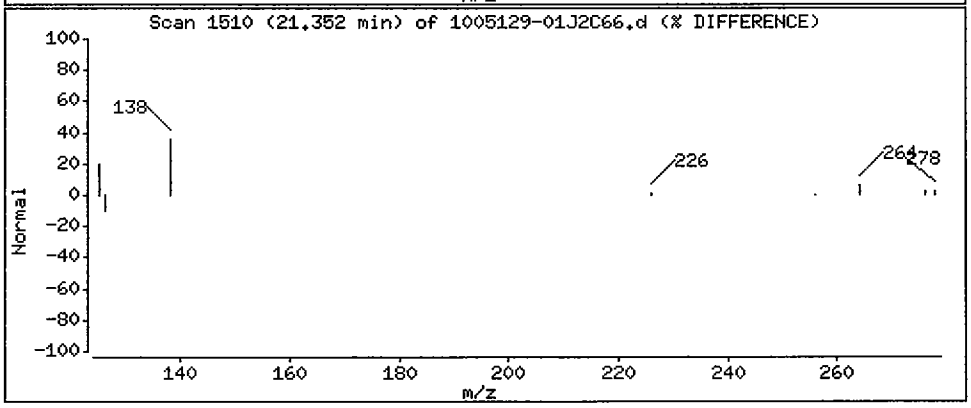












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d

Date : 28-MAY-2010 05:05

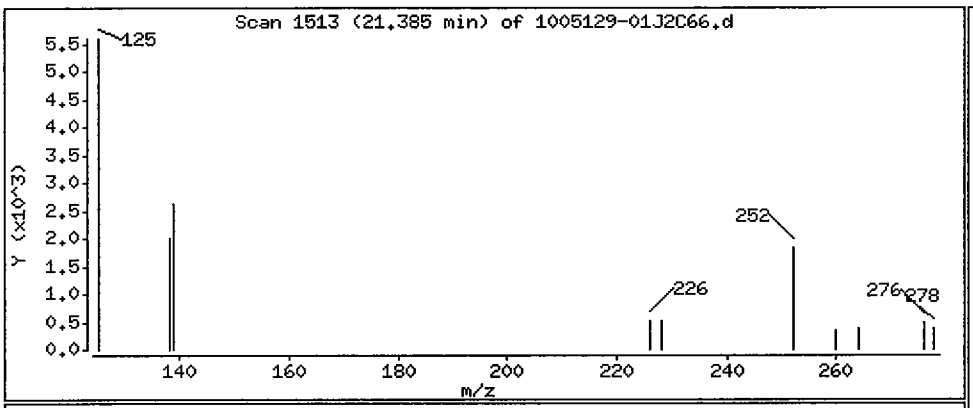
Client ID: SS55-00-01 Instrument: 5972hp66.i

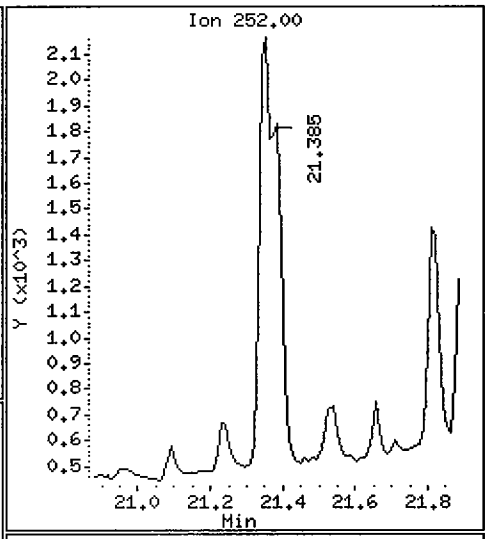
Sample Info: 1005129-01:2743

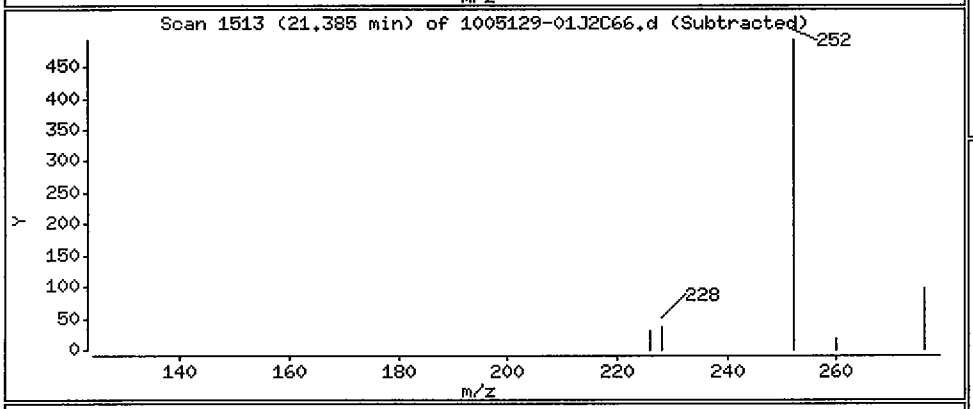
Volume Injected (uL): 2.0 Operator: 2743

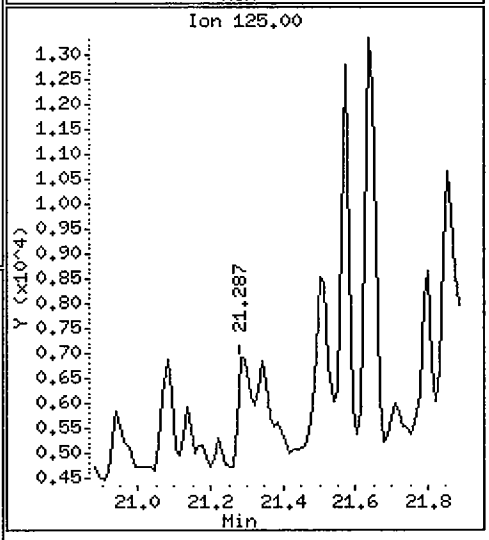
Column phase: Rtx-5MS Column diameter: 0.32

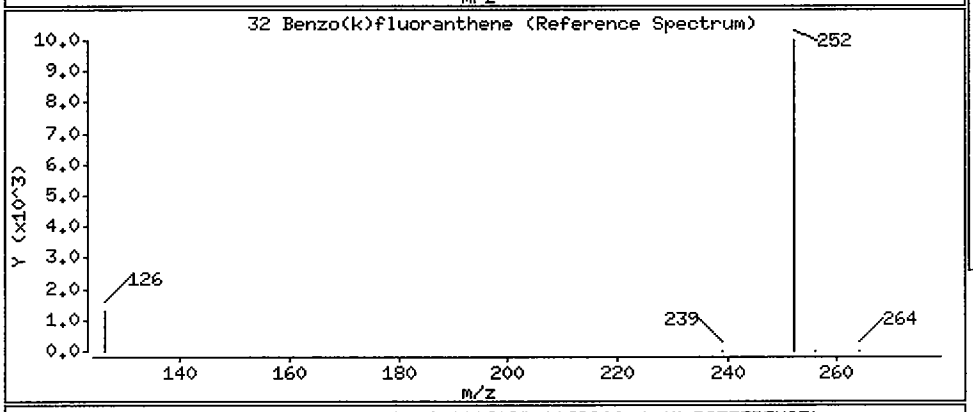
32 Benzo(k)fluoranthene Concentration: 1.3 ug/Kg

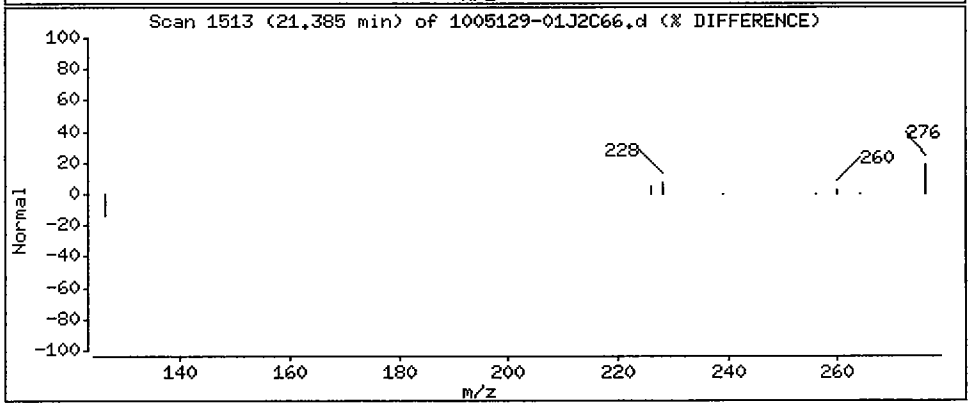












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d

Date : 28-MAY-2010 05:05

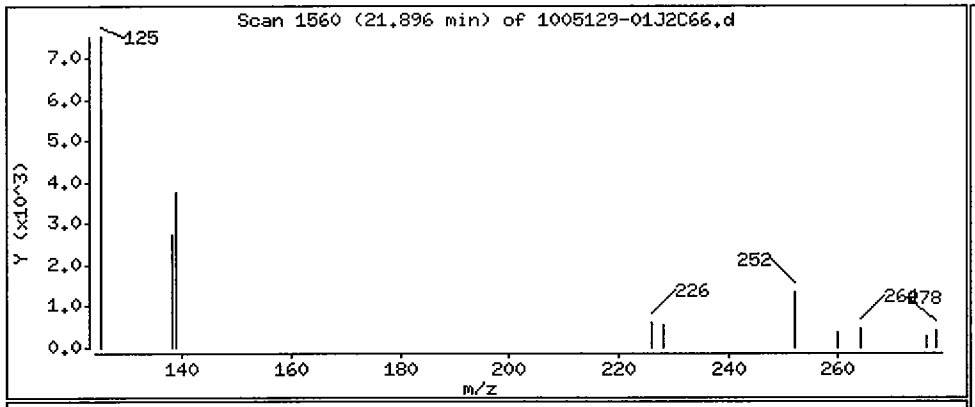
Client ID: SS55-00-01 Instrument: 5972hp66.i

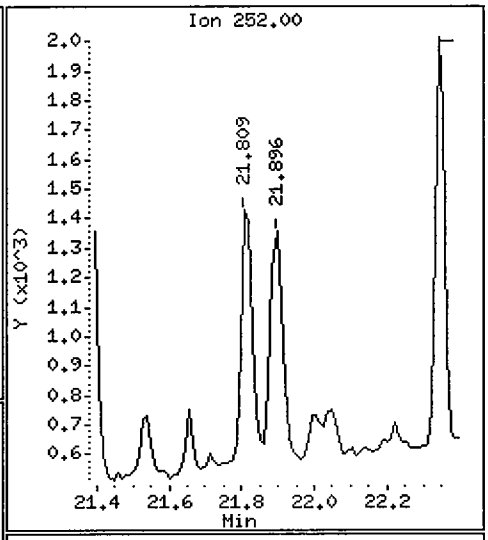
Sample Info: 1005129-01:2743

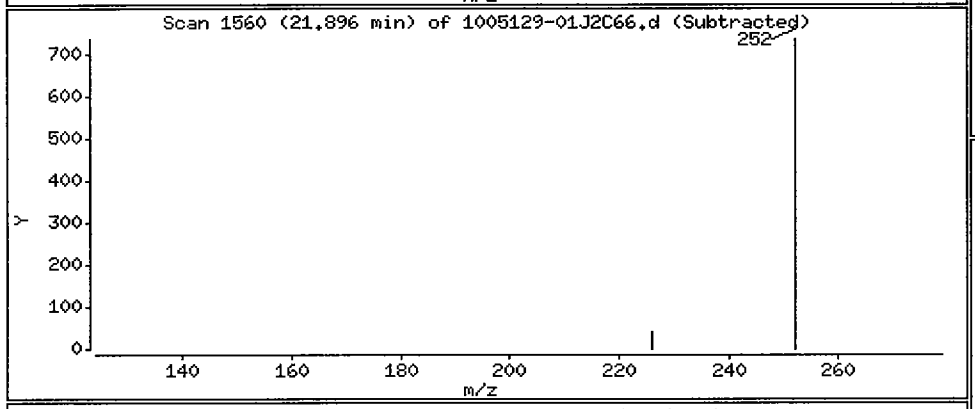
Volume Injected (uL): 2.0 Operator: 2743

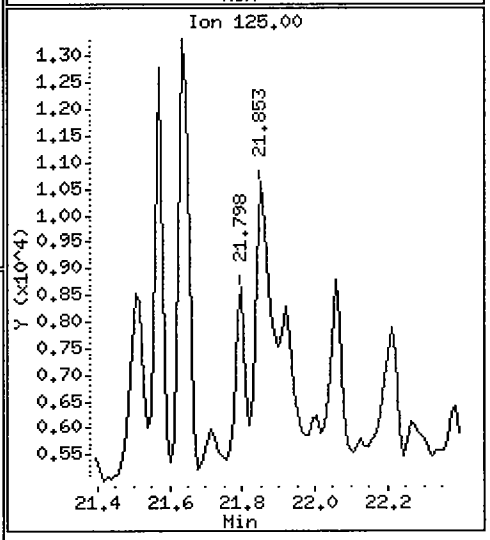
Column phase: Rtx-5MS Column diameter: 0.32

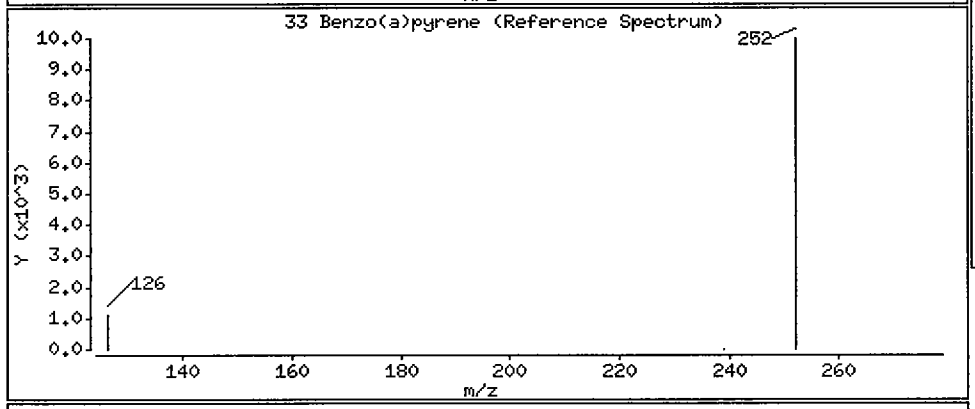
33 Benzo(a)pyrene Concentration: 0.73 ug/Kg

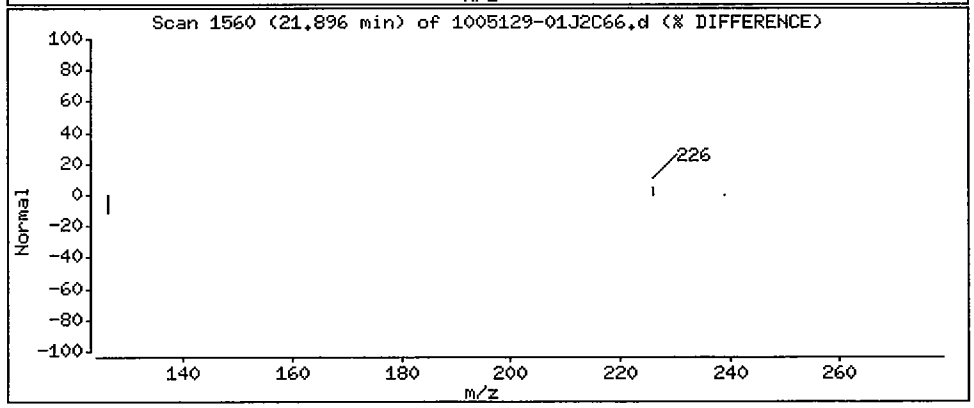












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d

Date : 28-MAY-2010 05:05

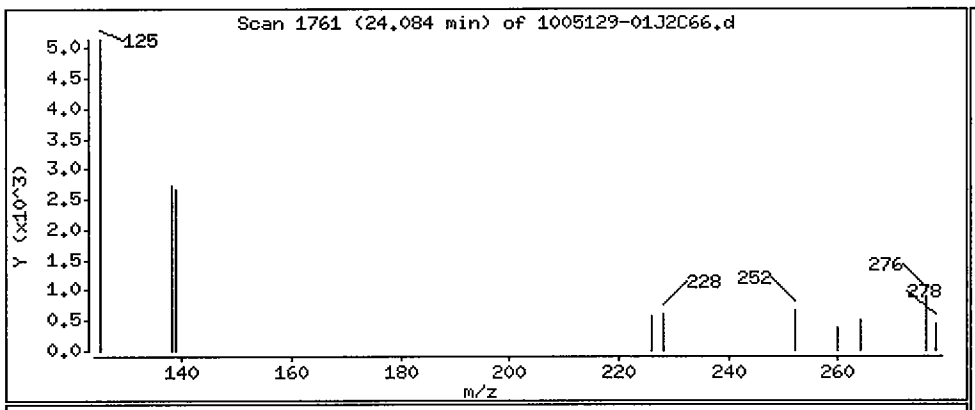
Client ID: SS55-00-01 Instrument: 5972hp66.i

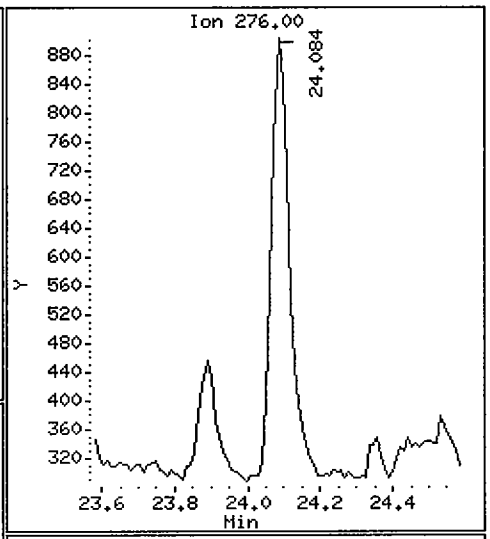
Sample Info: 1005129-01:2743

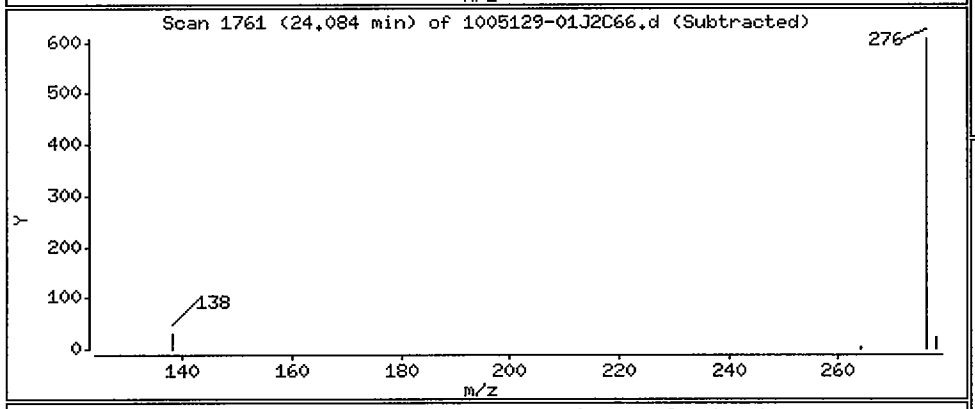
Volume Injected (uL): 2.0 Operator: 2743

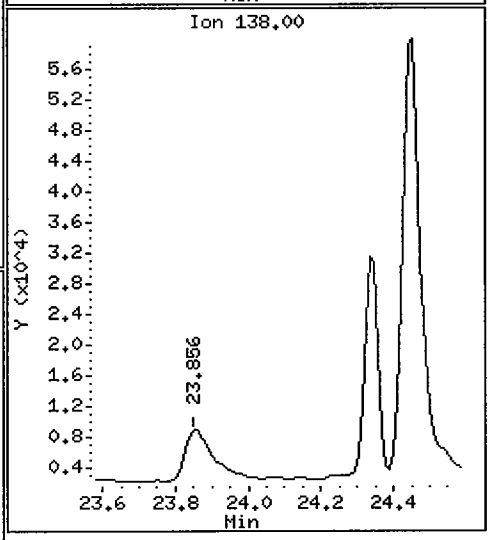
Column phase: Rtx-5MS Column diameter: 0.32

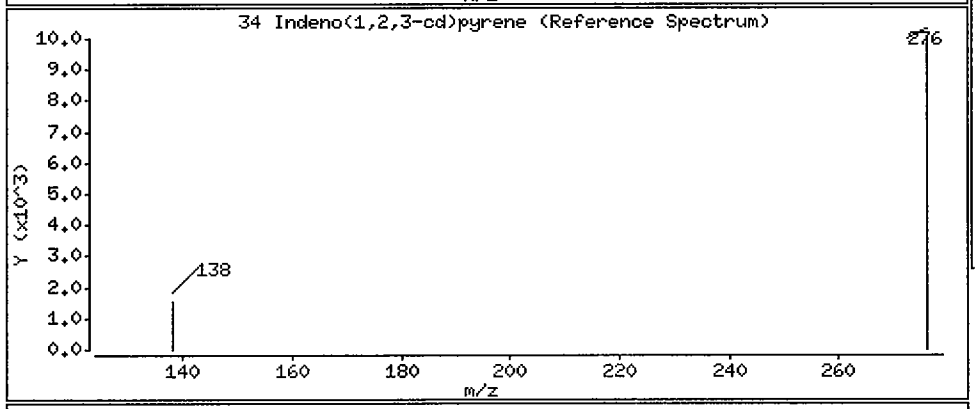
34 Indeno(1,2,3-cd)pyrene Concentration: 0.98 ug/Kg

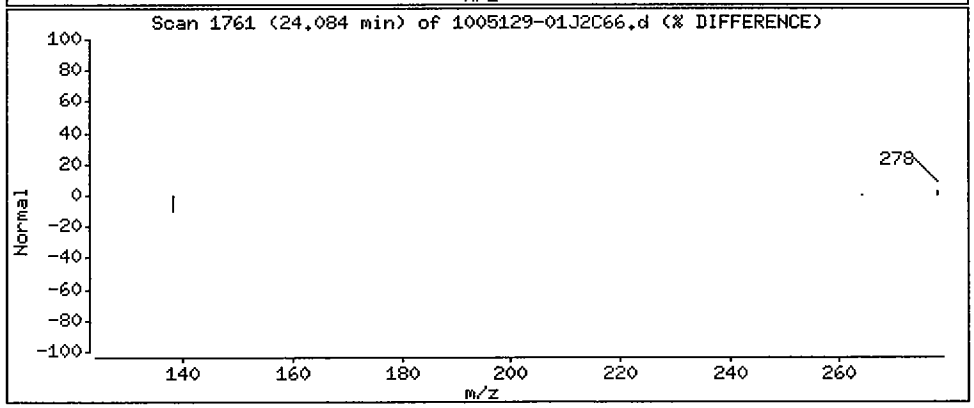












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-01J2C66.d

Date : 28-MAY-2010 05:05

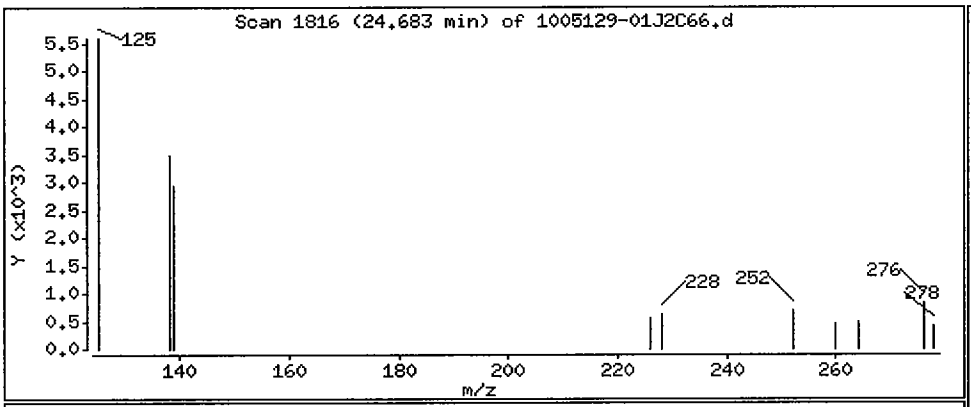
Client ID: SS55-00-01 Instrument: 5972hp66.i

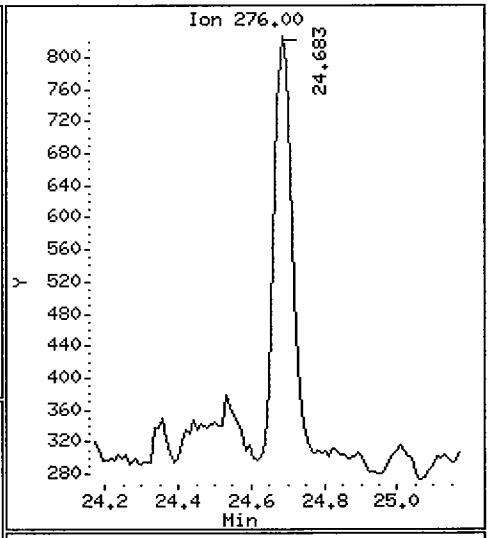
Sample Info: 1005129-01:2743

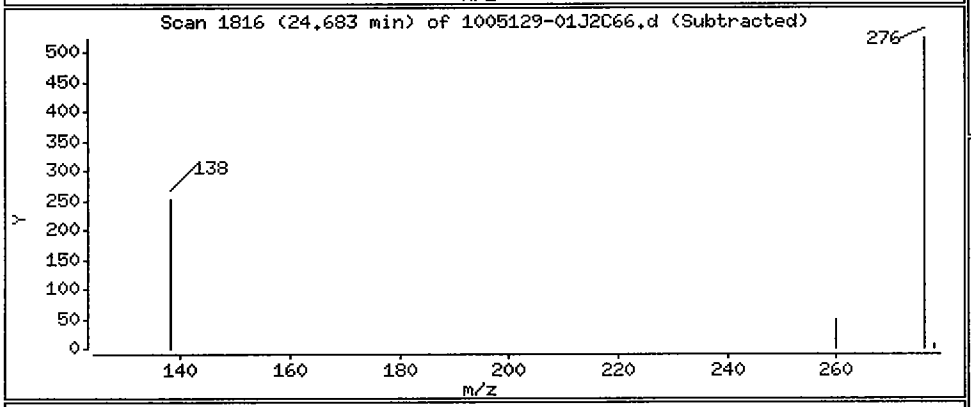
Volume Injected (uL): 2.0 Operator: 2743

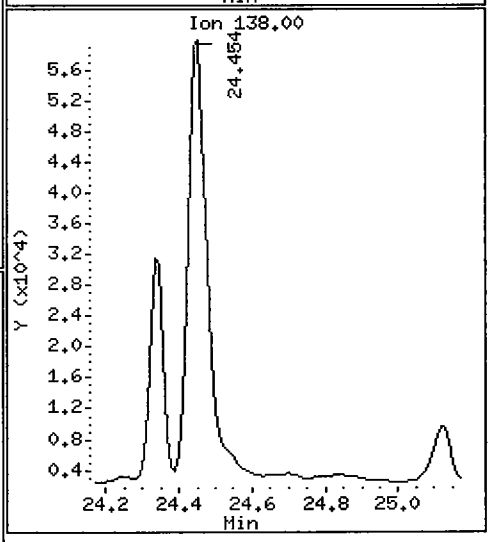
Column phase: Rtx-5MS Column diameter: 0.32

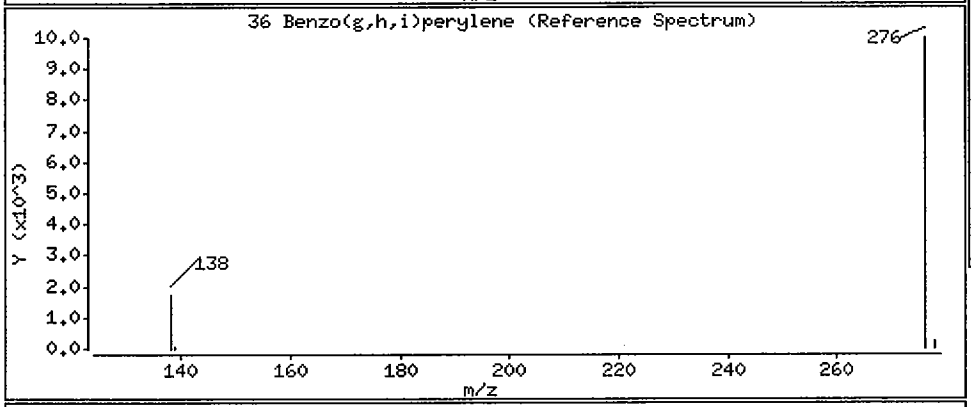
36 Benzo(g,h,i)perylene Concentration: 0.74 ug/Kg

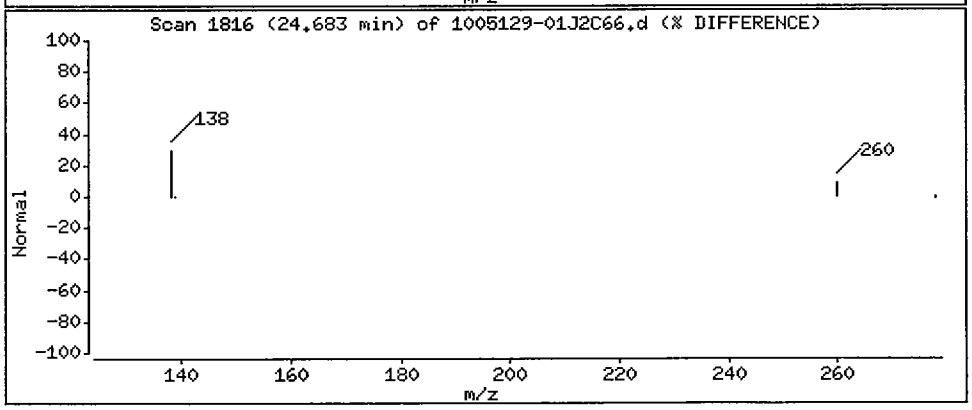












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS56-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005129-09
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-09JC66
Analyst: 2743

% Moisture: 18 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

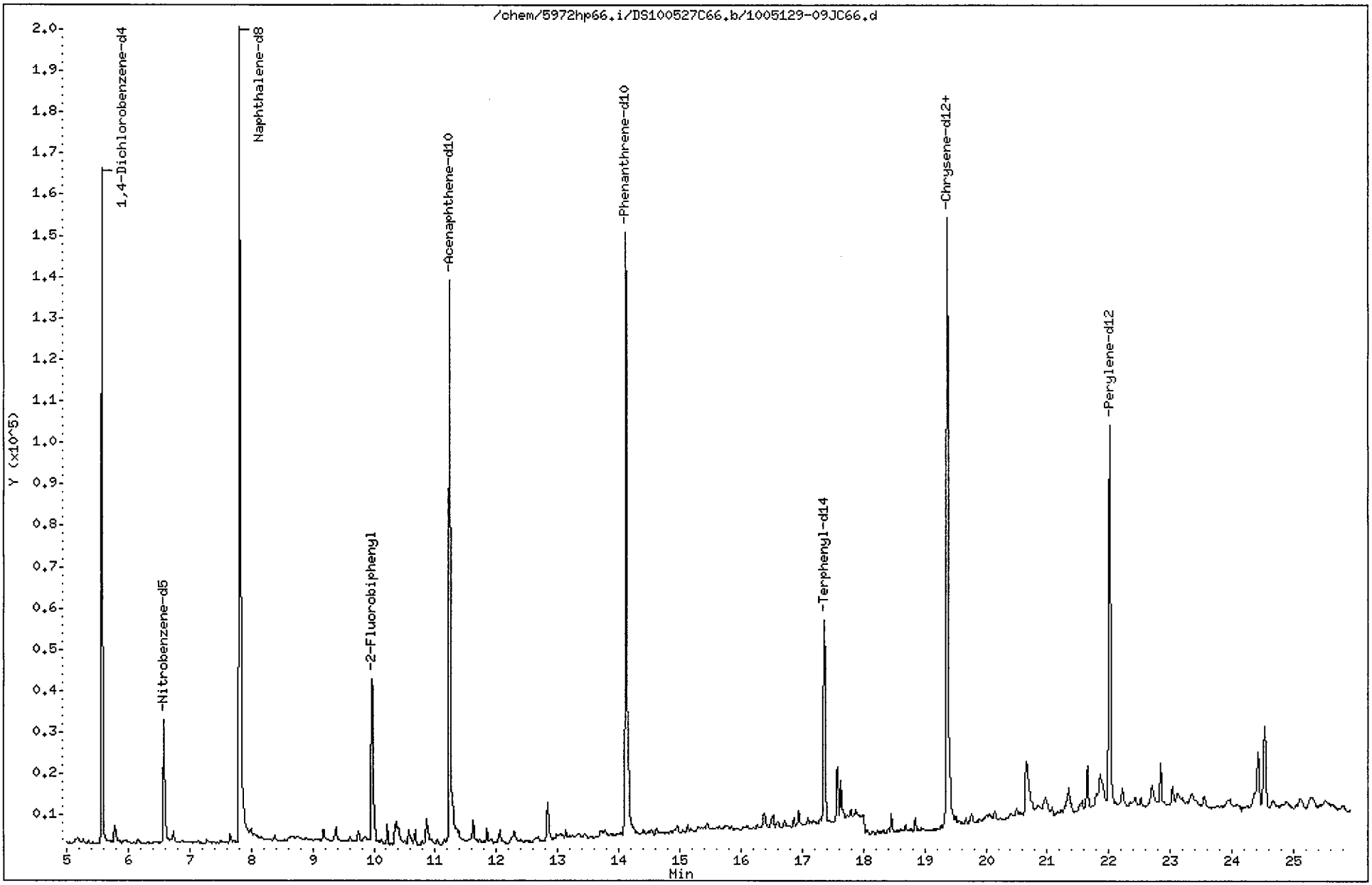
Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.87	10	ND	U
91-57-6	2-Methylnaphthalene	0.83	10	ND	U
208-96-8	Acenaphthylene	0.65	10	ND	U
83-32-9	Acenaphthene	0.73	10	ND	U
86-73-7	Fluorene	0.55	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.69	10	0.71	J
56-55-3	Benzo(a)anthracene	0.69	10	ND	U
218-01-9	Chrysene	0.77	10	1.1	J
205-99-2	Benzo(b)fluoranthene	0.69	10	1.1	J
207-08-9	Benzo(k)fluoranthene	0.53	10	0.63	J
50-32-8	Benzo(a)pyrene	0.47	10	0.48	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	0.46	J
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	0.51	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Date : 28-MAY-2010 07:55
Client ID: SS56-0-1
Instrument: 5972hp66.i
Sample Info: 1005129-09:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Report Date: 02-Jun-2010 09:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Lab Smp Id: 1005129-09 Client Smp ID: SS56-0-1
Inj Date : 28-MAY-2010 07:55
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-09:2743
Misc Info : SS56-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	18.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.572	5.560	(1.000)	92331	2.00000	
* 2	Naphthalene-d8	136	7.814	7.815	(1.000)	287927	2.00000	
* 3	Acenaphthene-d10	164	11.230	11.231	(1.000)	135268	2.00000	
* 4	Phenanthrene-d10	188	14.113	14.126	(1.000)	254797	2.00000	
* 5	Chrysene-d12	240	19.370	19.371	(1.000)	223023	2.00000	
* 6	Perylene-d12	264	22.004	22.004	(1.000)	154630	2.00000	
$ 9	Nitrobenzene-d5	82	6.576	6.576	(0.842)	38811	0.60577	12
$ 10	2-Fluorobiphenyl	172	9.965	9.978	(0.887)	71445	0.50615	10
$ 12	Terphenyl-d14	244	17.360	17.372	(0.896)	68613	0.84672	17
13	Naphthalene	128	Compound Not Detected.					
15	2-Methylnaphthalene	141	Compound Not Detected.					
17	Acenaphthylene	152	Compound Not Detected.					
18	Acenaphthene	154	Compound Not Detected.					

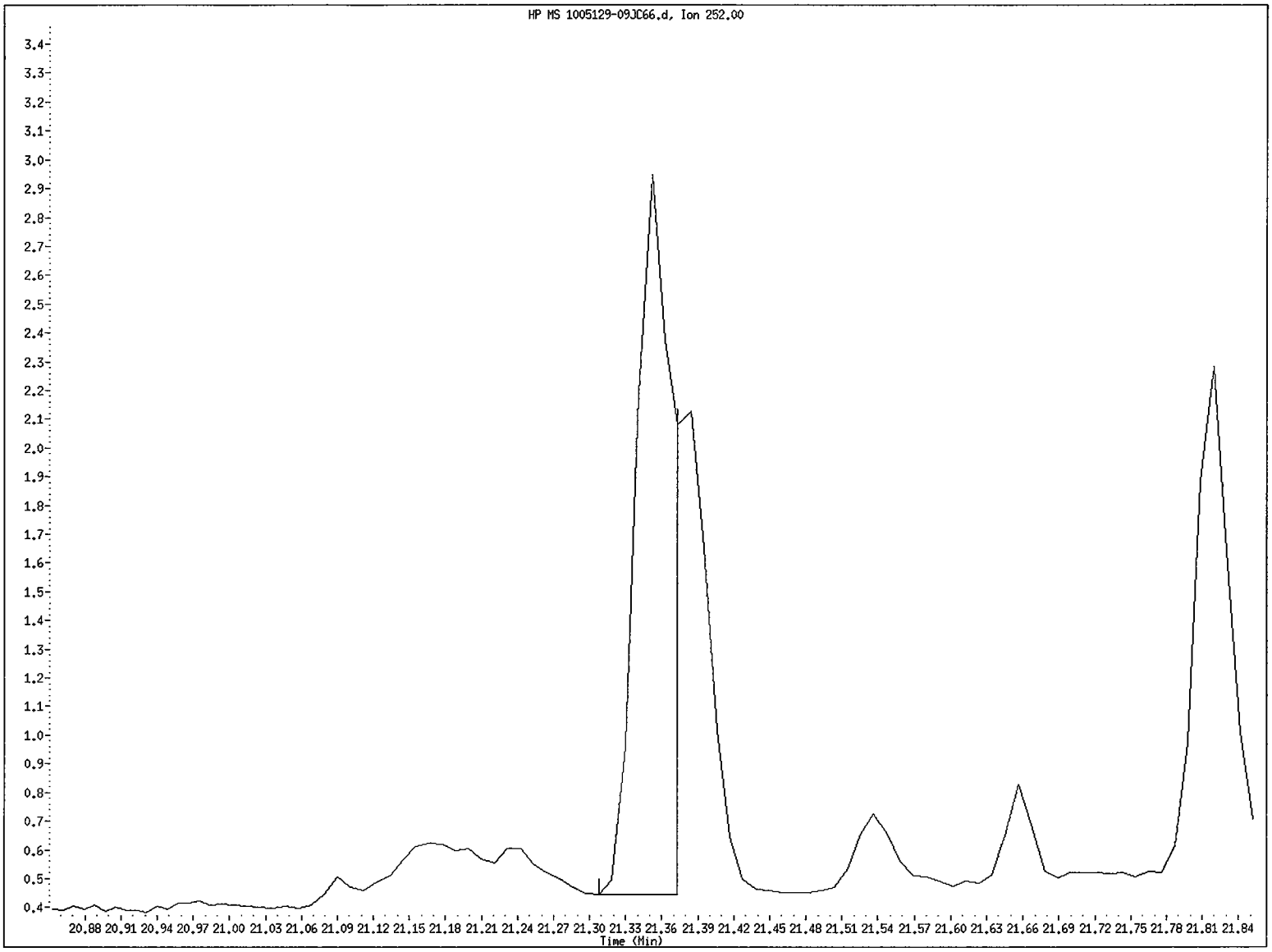
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Report Date: 02-Jun-2010 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.943	16.942	(0.875)	5617	0.03488	0.71(a)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	19.413	19.414	(1.002)	7331	0.05583	1.1(a)
31 Benzo(b)fluoranthene	252	21.351	21.351	(0.970)	5464	0.05358	1.1(aM)
32 Benzo(k)fluoranthene	252	21.384	21.383	(0.972)	3425	0.03121	0.63(aM)
33 Benzo(a)pyrene	252	21.896	21.895	(0.995)	2188	0.02381	0.48(aM)
34 Indeno(1,2,3-cd)pyrene	276	24.083	24.083	(1.094)	1839	0.02268	0.46(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.682	24.671	(1.122)	2249	0.02503	0.51(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

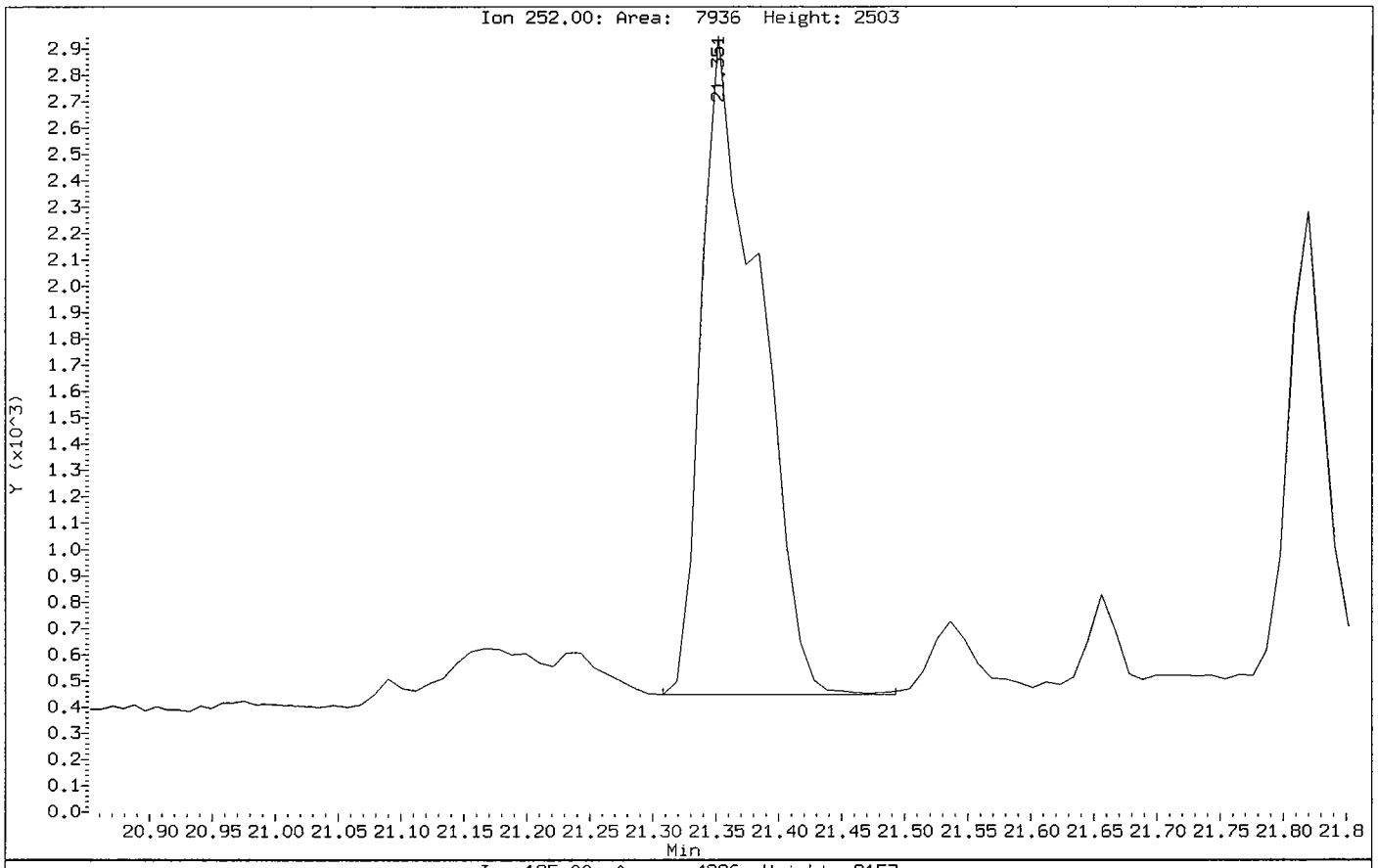
Benzo(b)fluoranthene CAS Number 205-99-2 Area = 5464 Manually integrated

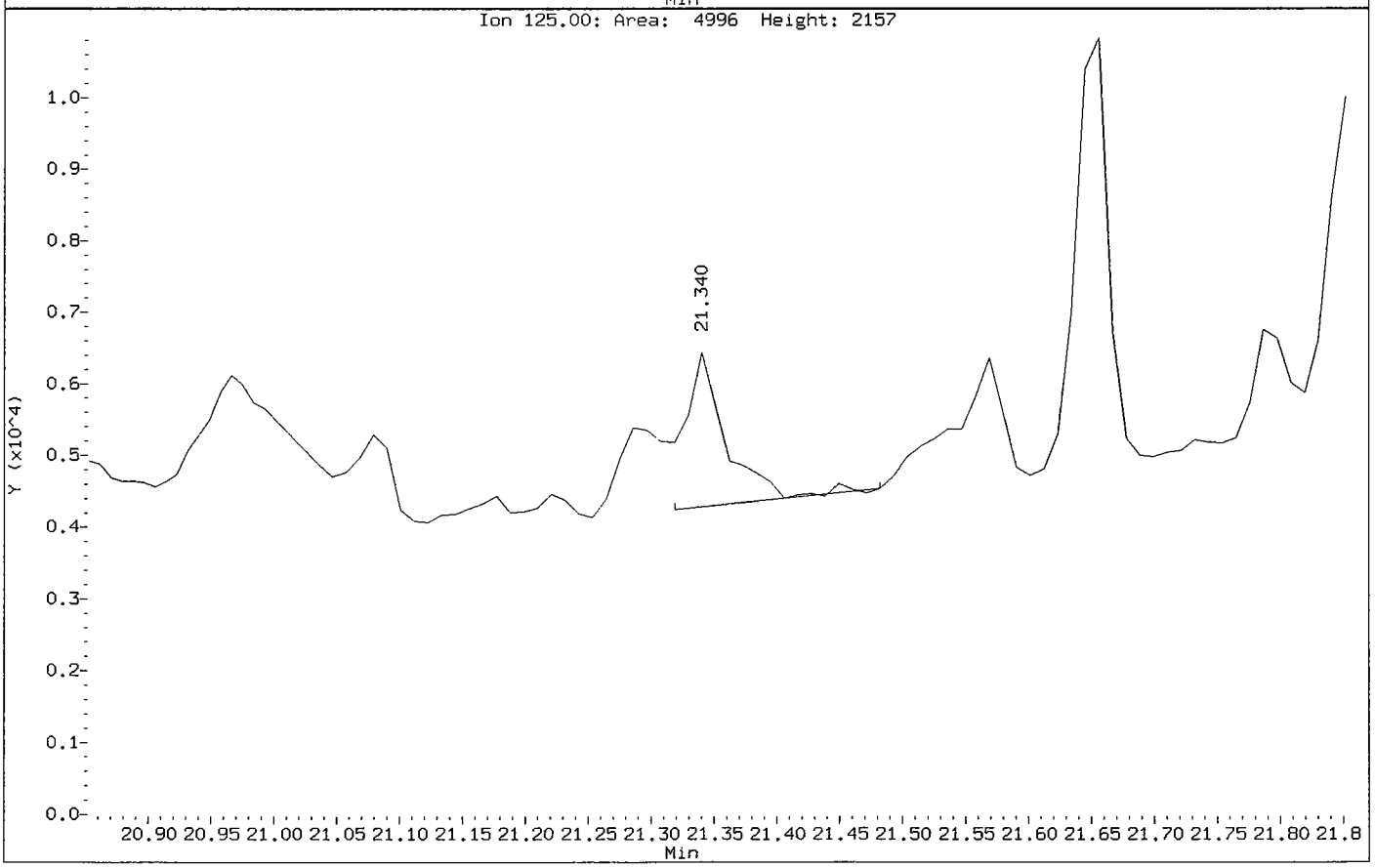


File name: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Client ID: SS56-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 07:55
Retention Time: 21.35
Operator ID: 2743

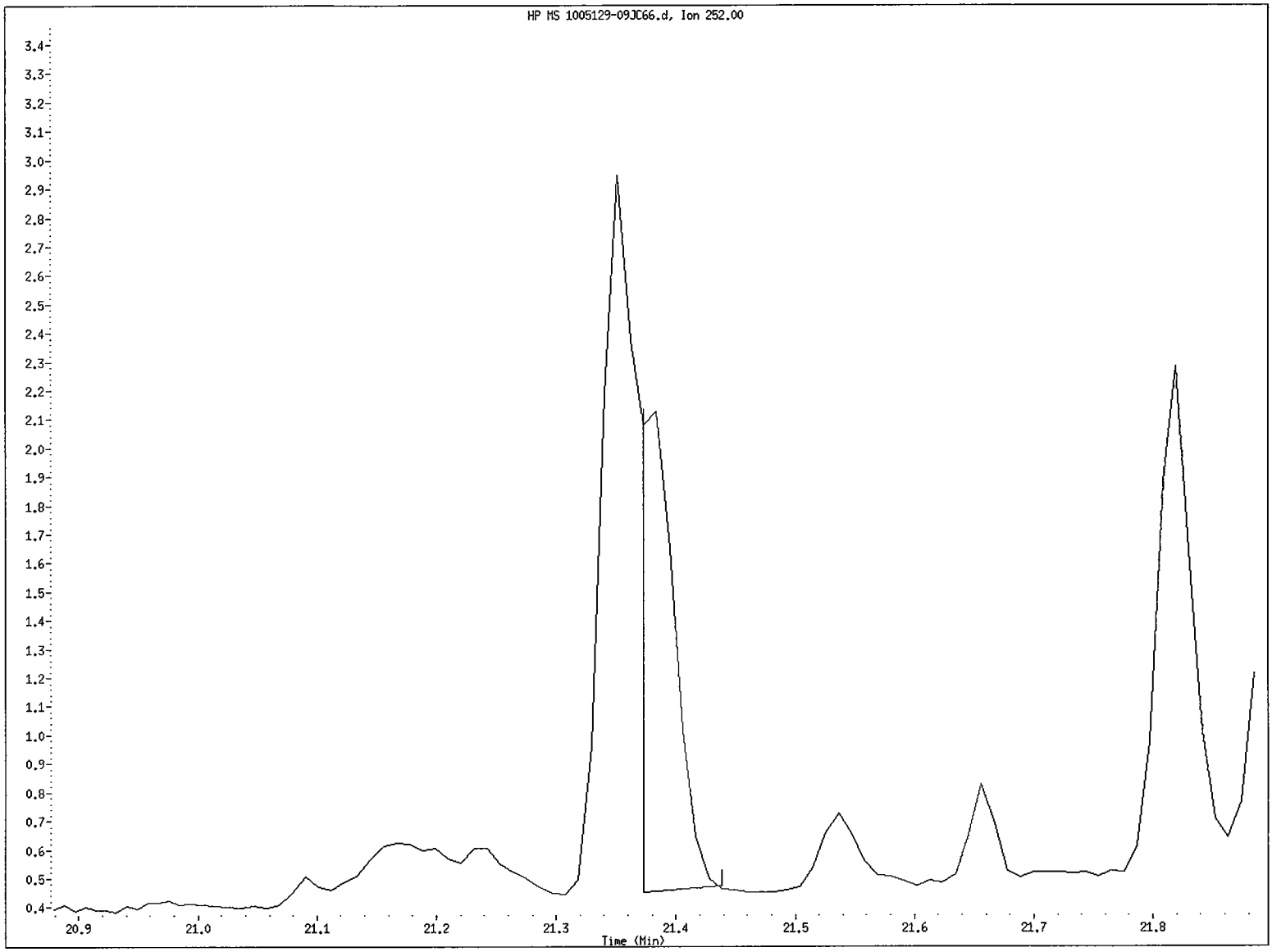
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Injection Date: 28-MAY-2010 07:55
Instrument: 5972hp66.i
Client Sample ID: S556-0-1

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





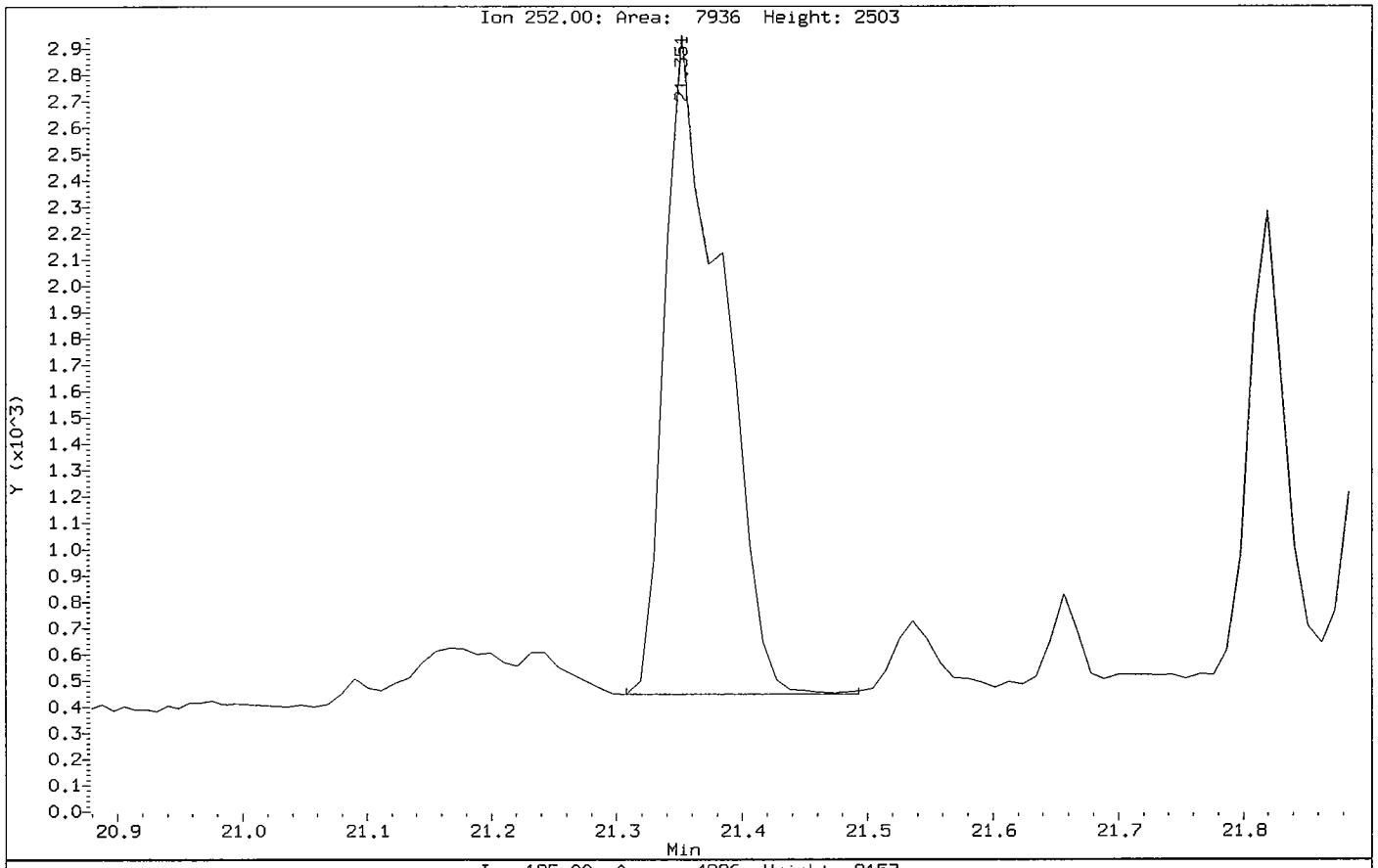
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 3425 Manually integrated

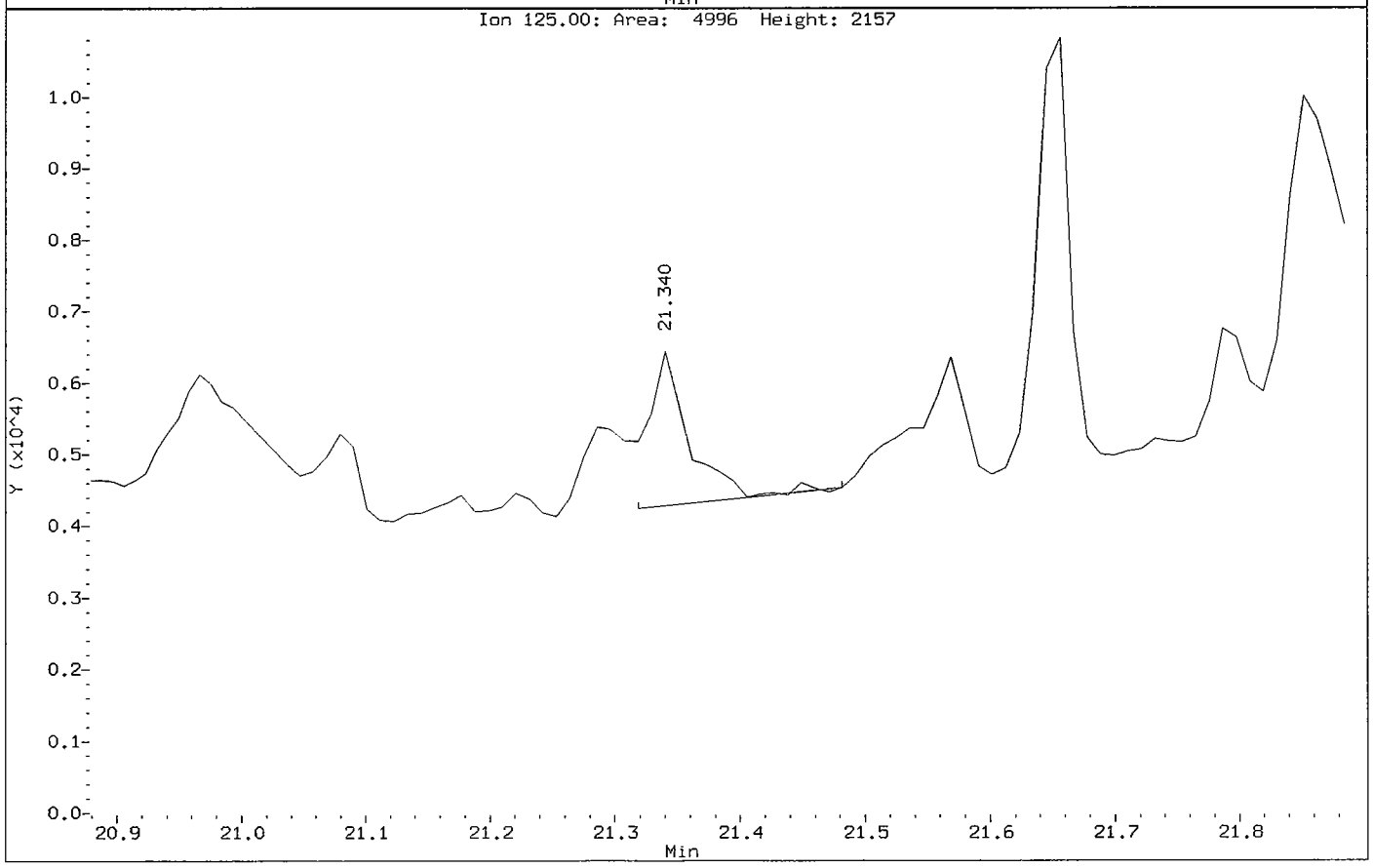


File name: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Client ID: SS56-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 07:55
Retention Time: 21.38
Operator ID: 2743

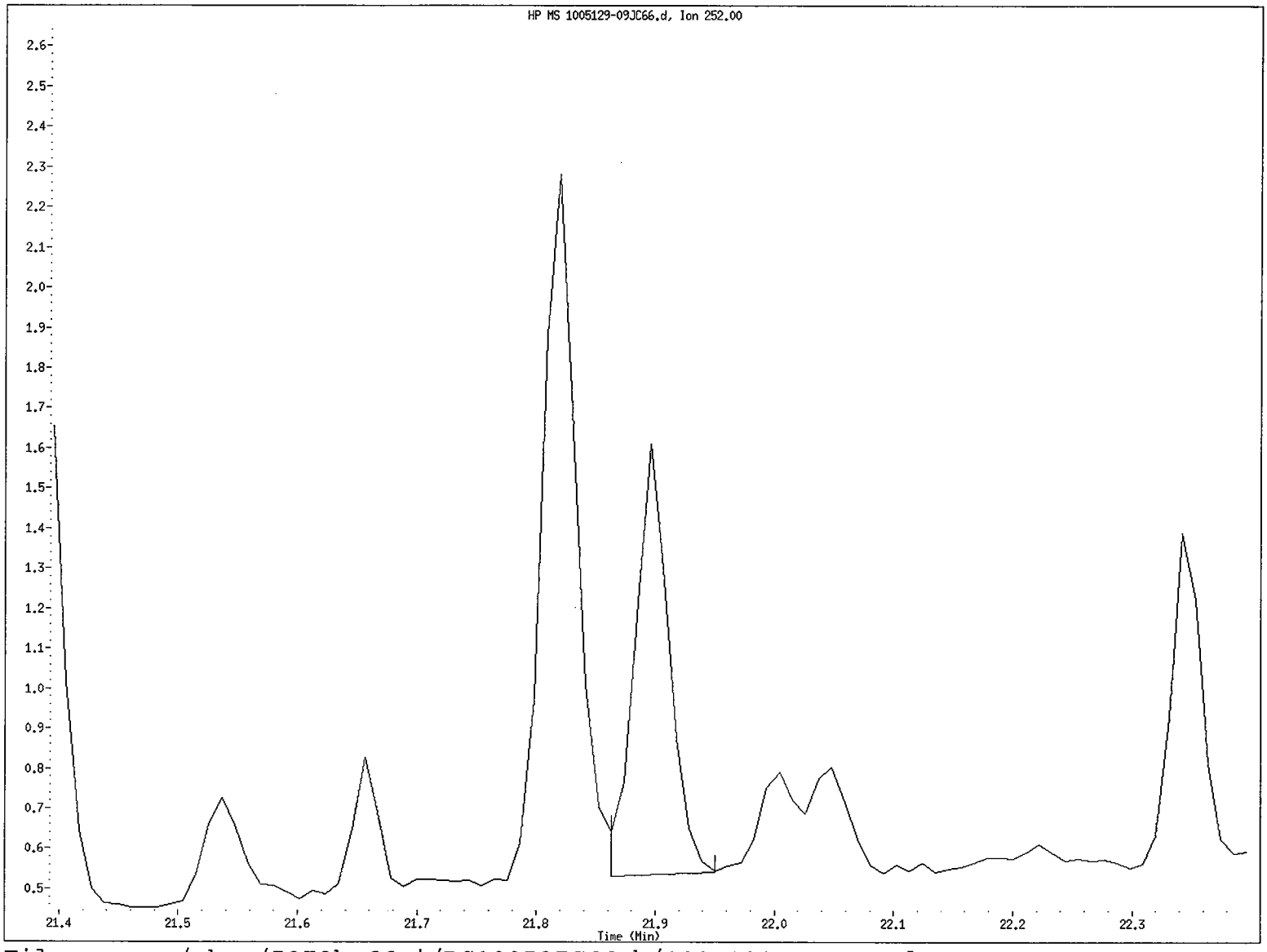
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Injection Date: 28-MAY-2010 07:55
Instrument: 5972hp66.i
Client Sample ID: SS56-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





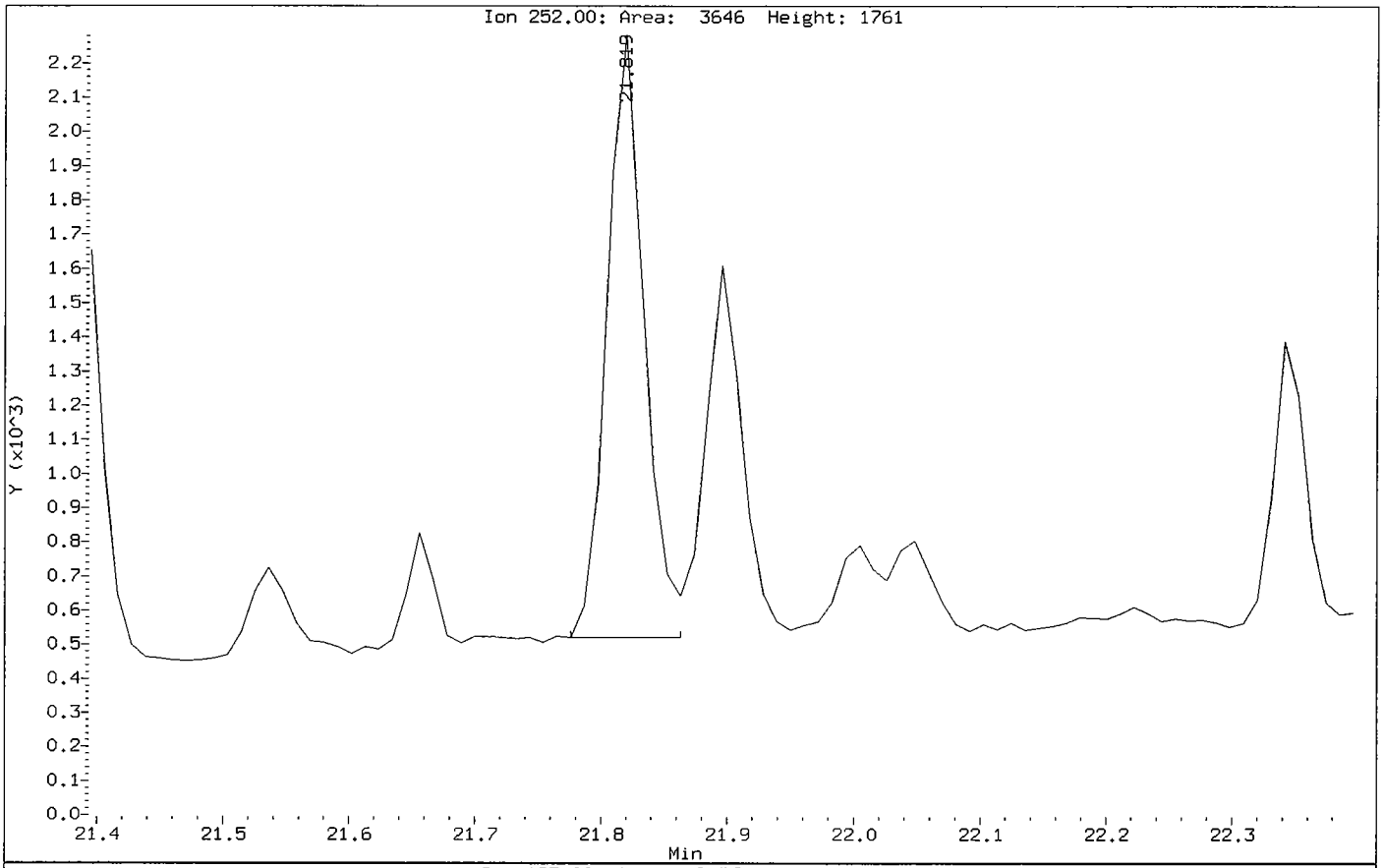
Benzo(a)pyrene CAS Number 50-32-8 Area = 2188 Manually integrated

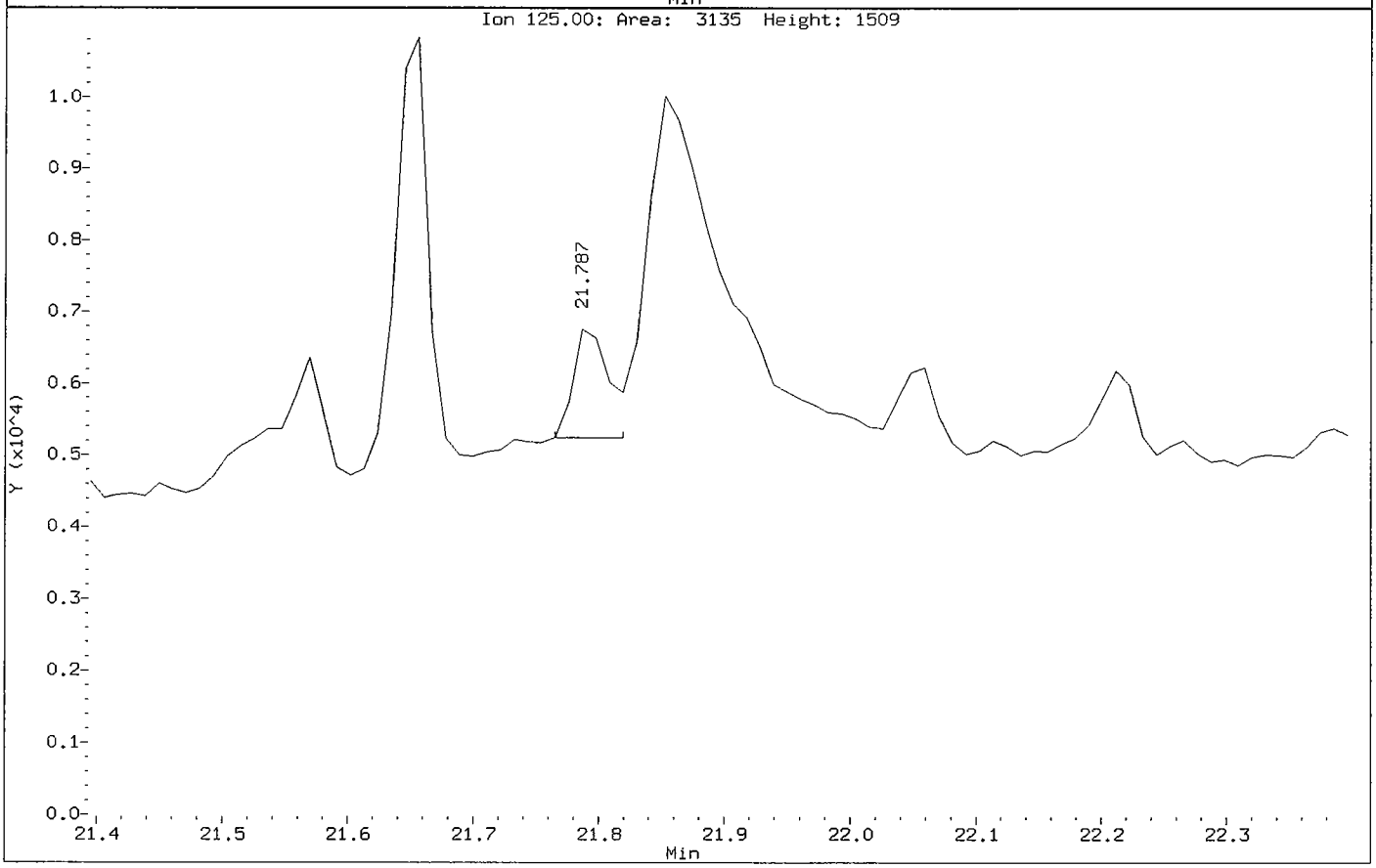


File name: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Client ID: SS56-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 07:55
Retention Time: 21.90
Operator ID: 2743

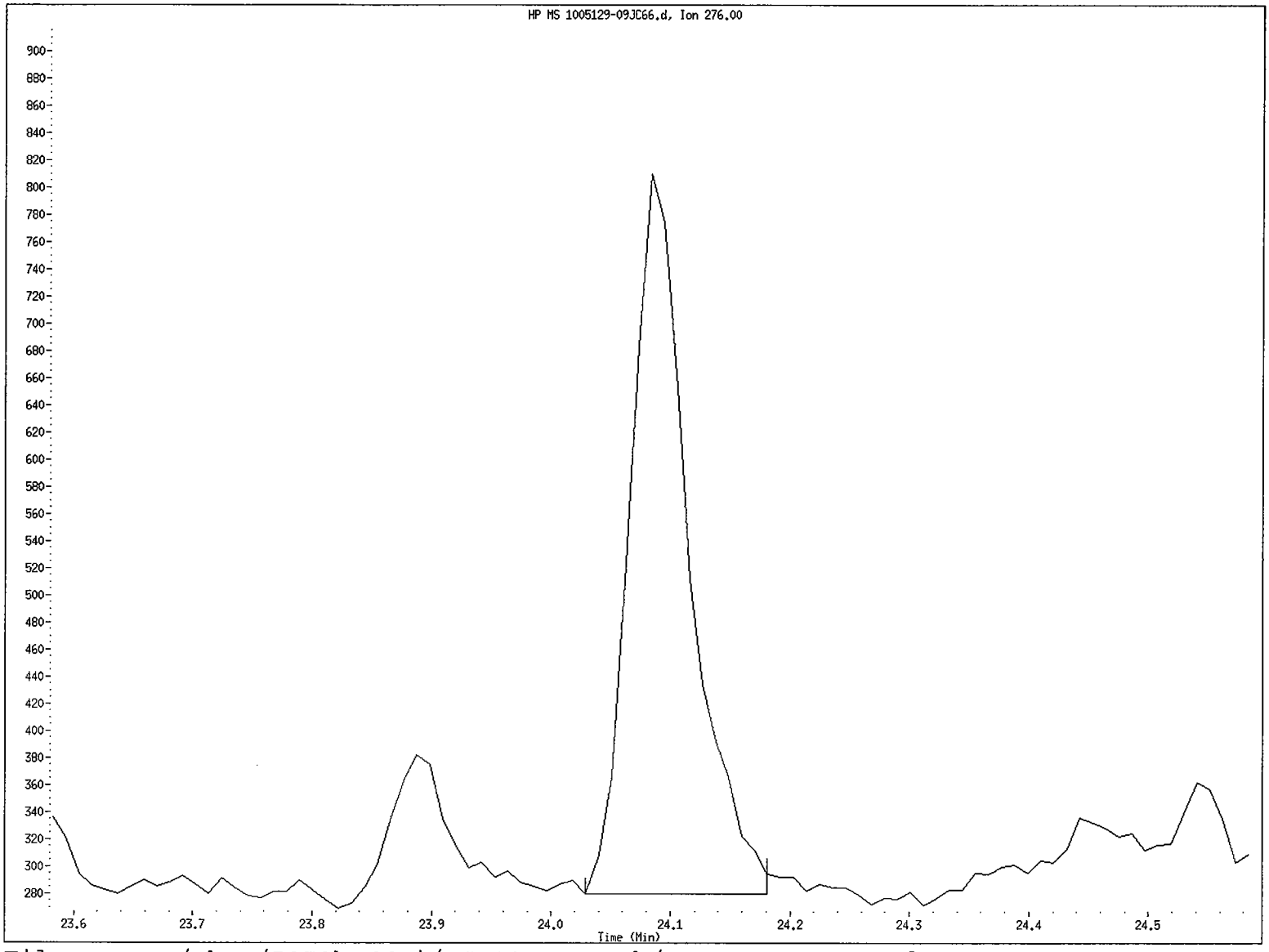
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Injection Date: 28-MAY-2010 07:55
Instrument: 5972hp66.i
Client Sample ID: SS56-0-1

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





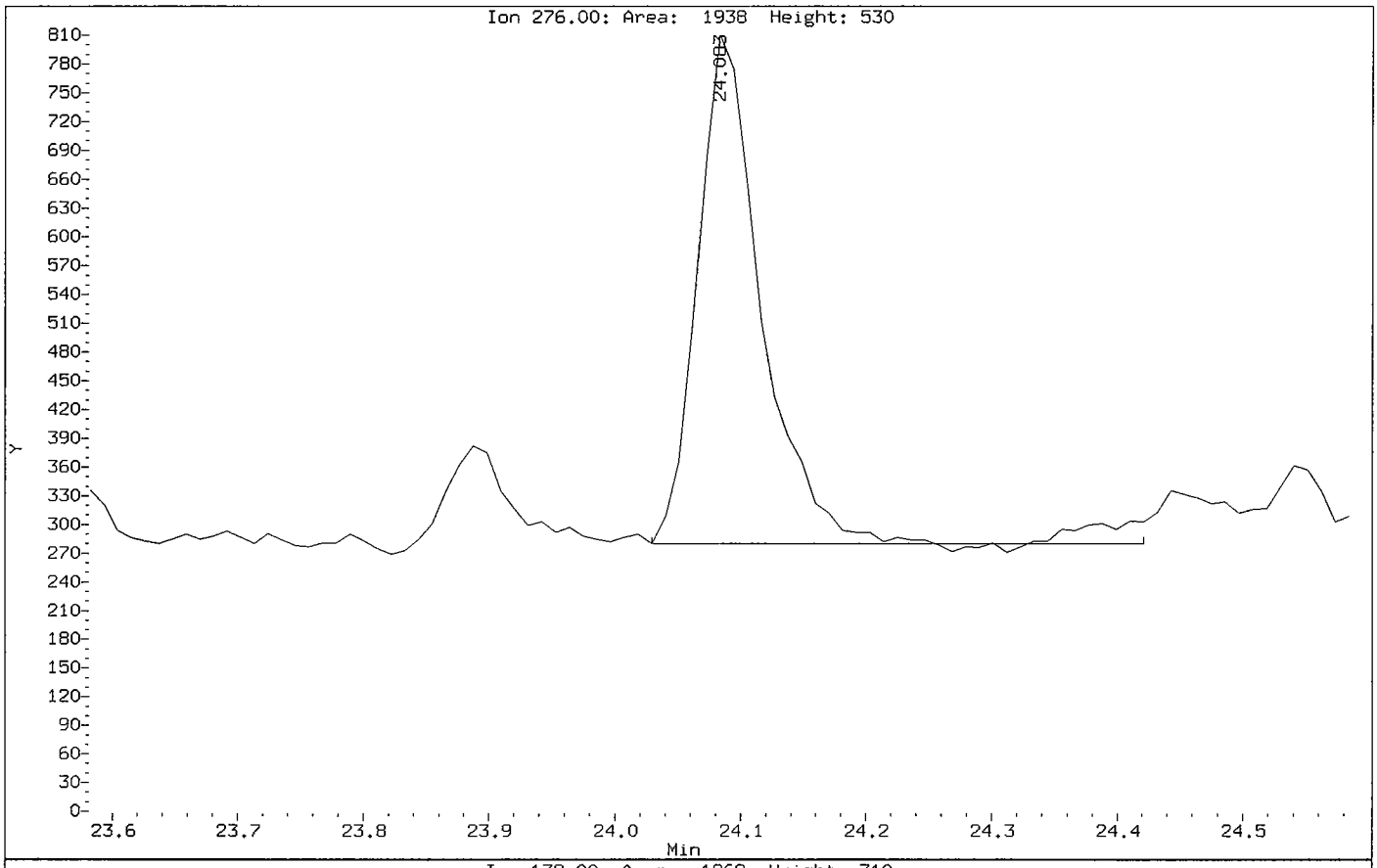
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 1839 Manually integrated

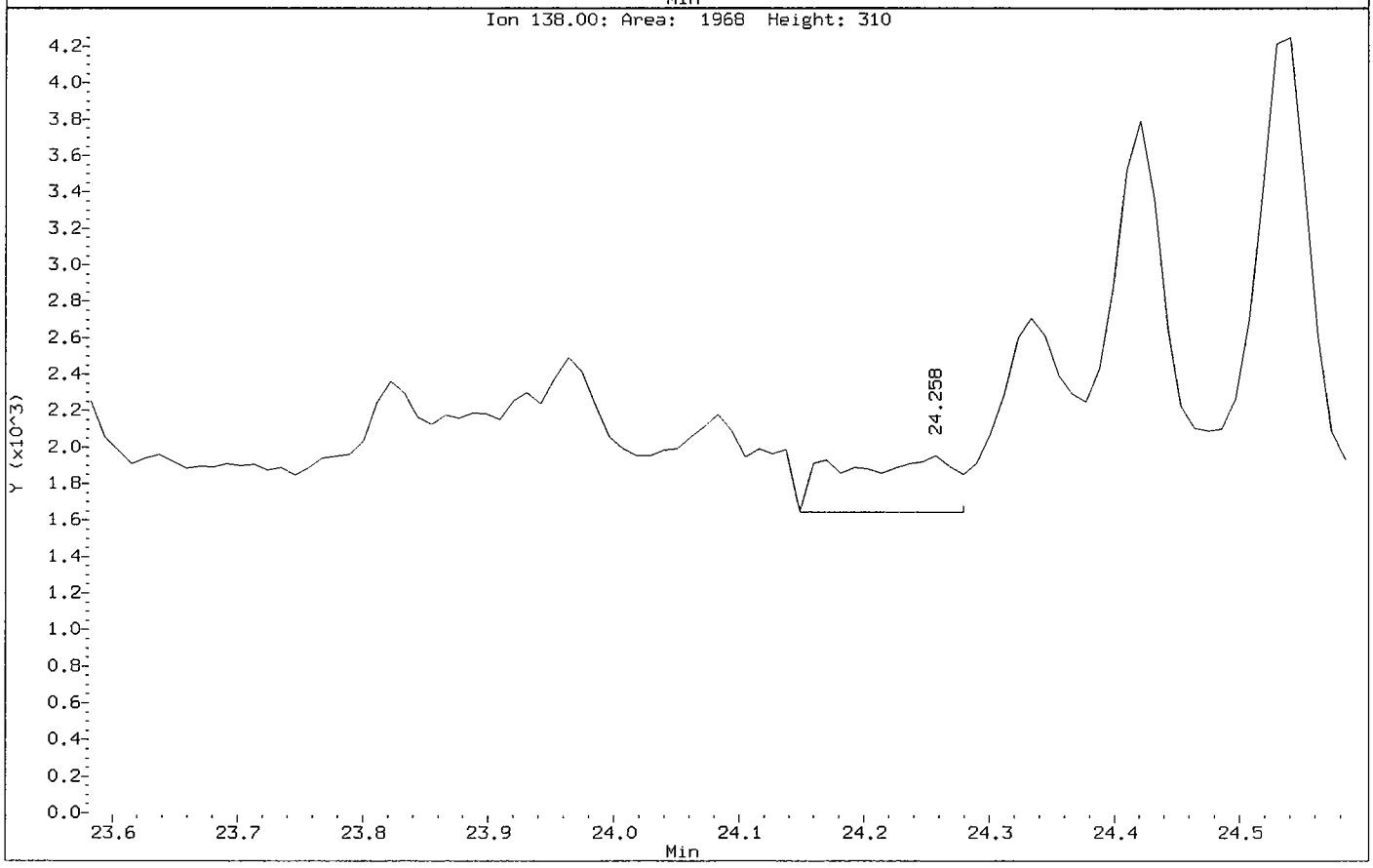


File name: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Client ID: SS56-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 07:55
Retention Time: 24.08
Operator ID: 2743

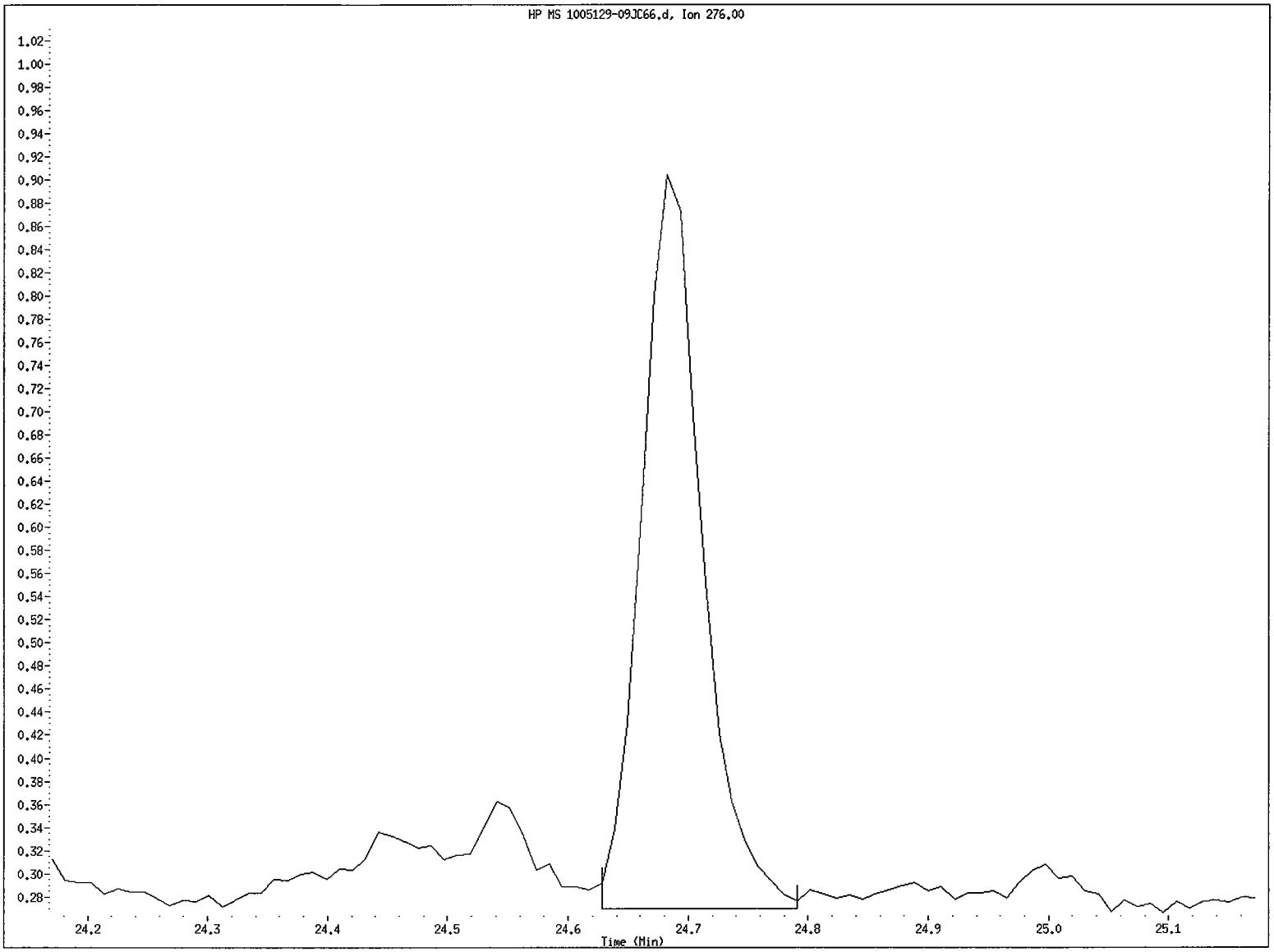
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Injection Date: 28-MAY-2010 07:55
Instrument: 5972hp66.i
Client Sample ID: SS56-0-1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





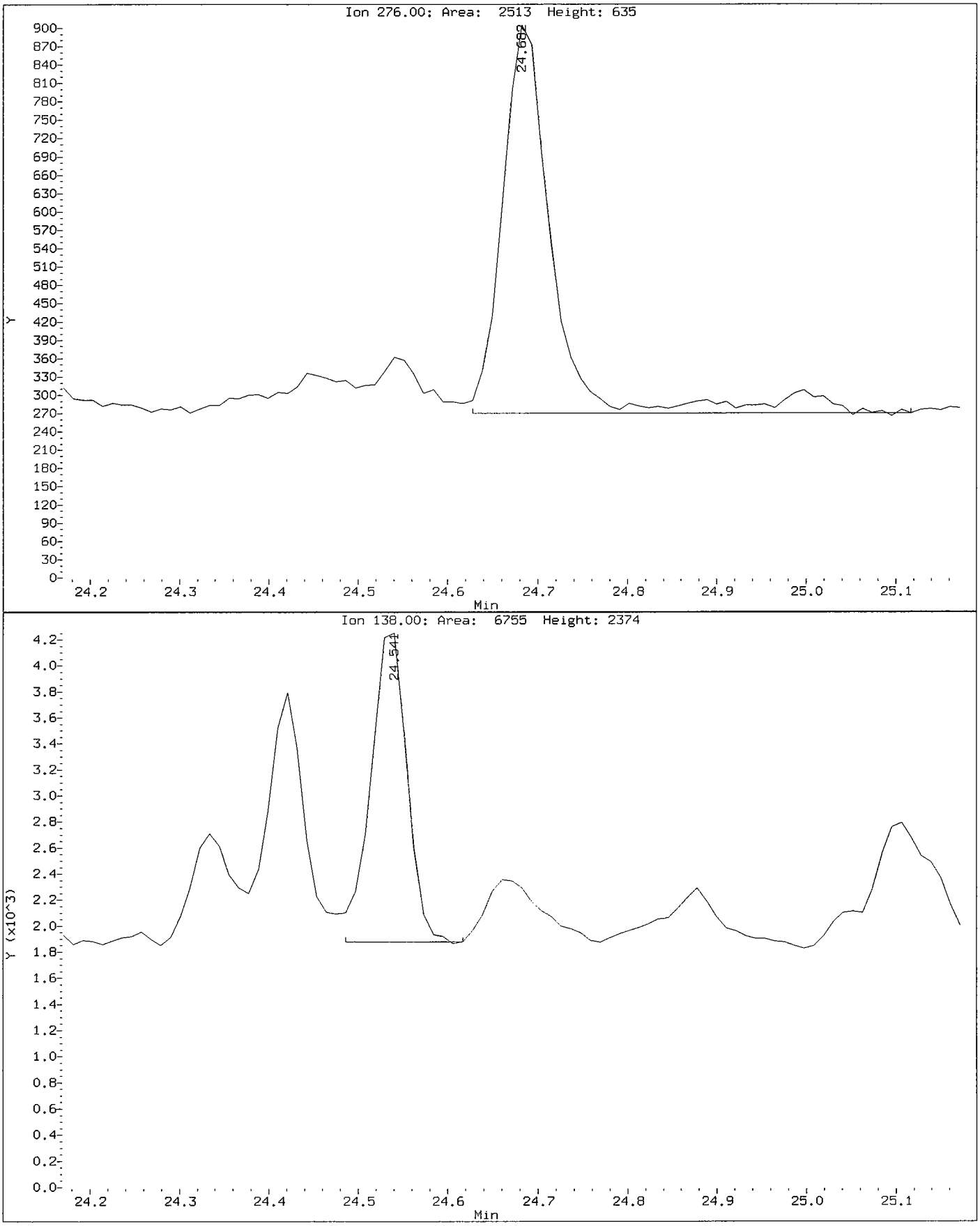
Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 2249 Manually integrated



File name: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Client ID: SS56-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 07:55
Retention Time: 24.68
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d
Injection Date: 28-MAY-2010 07:55
Instrument: 5972hp66.i
Client Sample ID: SS56-0-1

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d

Date : 28-MAY-2010 07:55

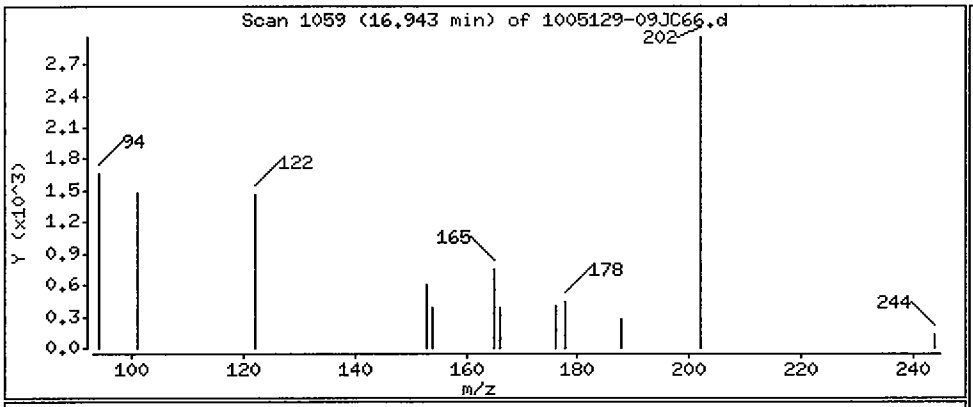
Client ID: SS56-0-1 Instrument: 5972hp66.i

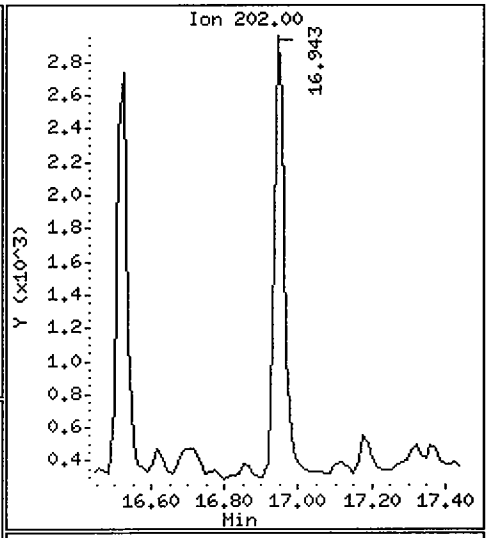
Sample Info: 1005129-09;2743

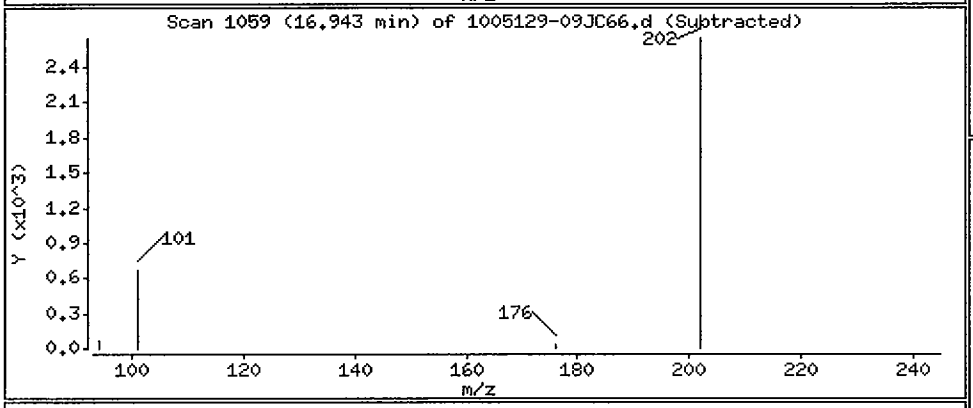
Volume Injected (uL): 2.0 Operator: 2743

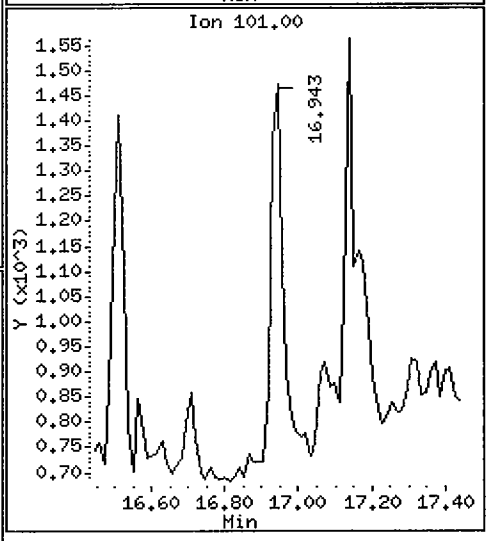
Column phase: Rtx-5MS Column diameter: 0.32

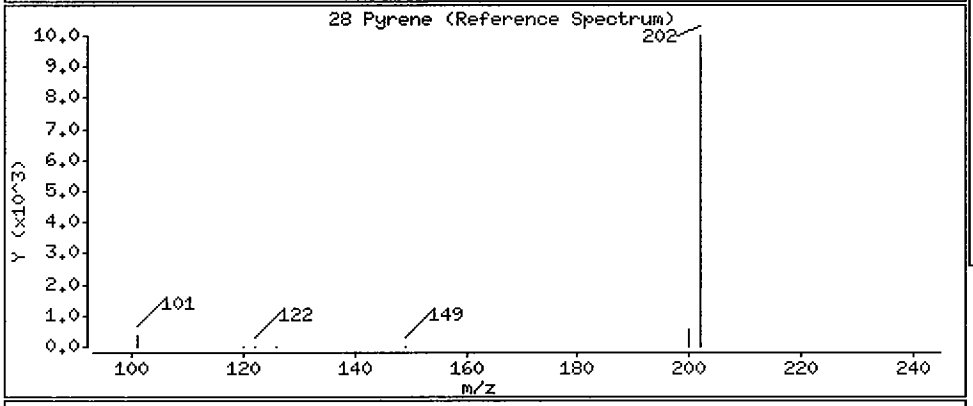
28 Pyrene Concentration: 0.71 ug/Kg

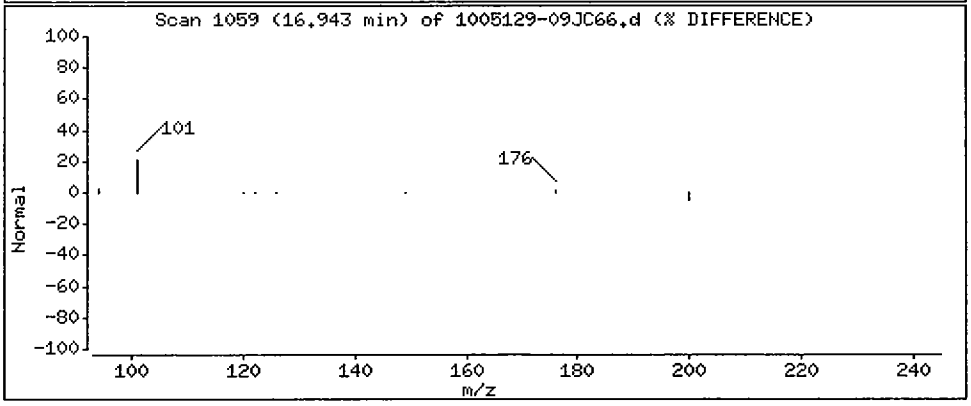












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d

Date : 28-MAY-2010 07:55

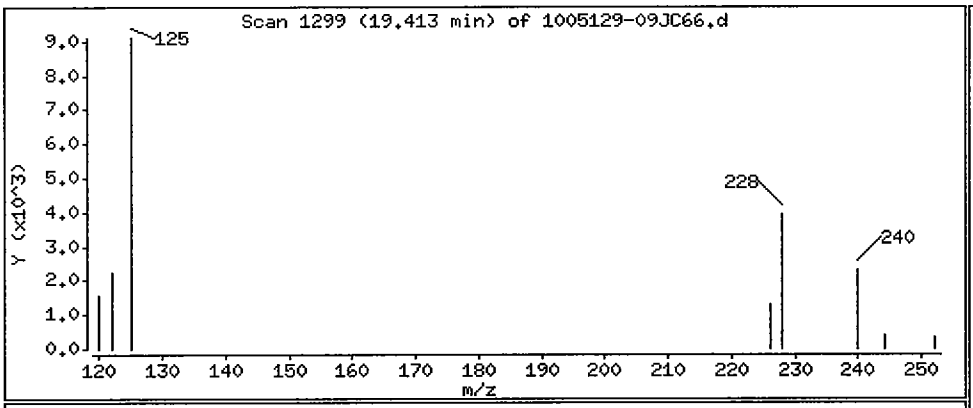
Client ID: SS56-0-1 Instrument: 5972hp66.i

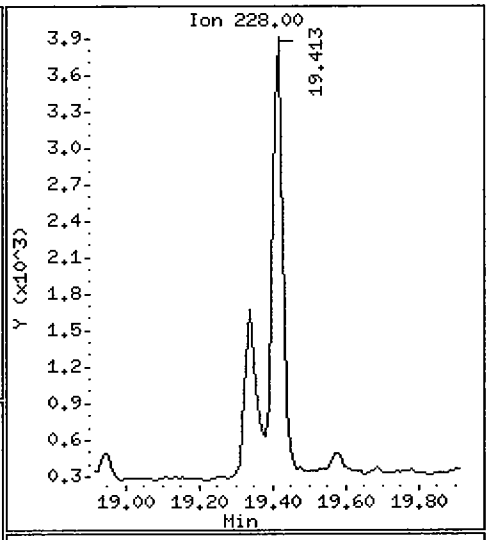
Sample Info: 1005129-09:2743

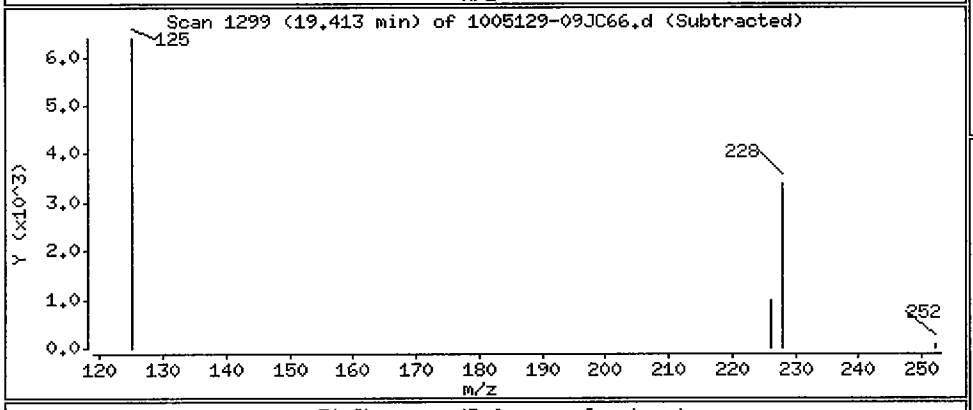
Volume Injected (uL): 2.0 Operator: 2743

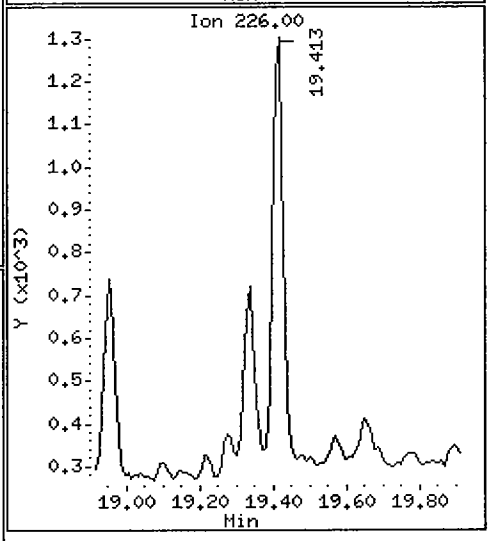
Column phase: Rtx-5MS Column diameter: 0.32

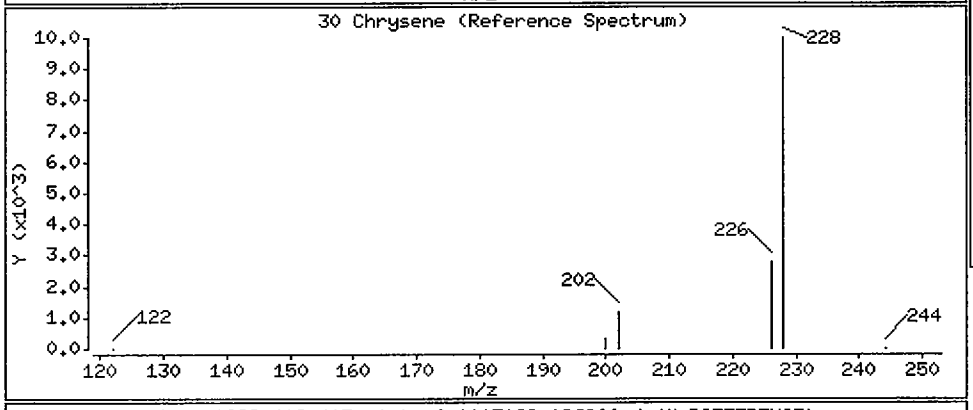
30 Chrysene Concentration: 1.1 ug/Kg

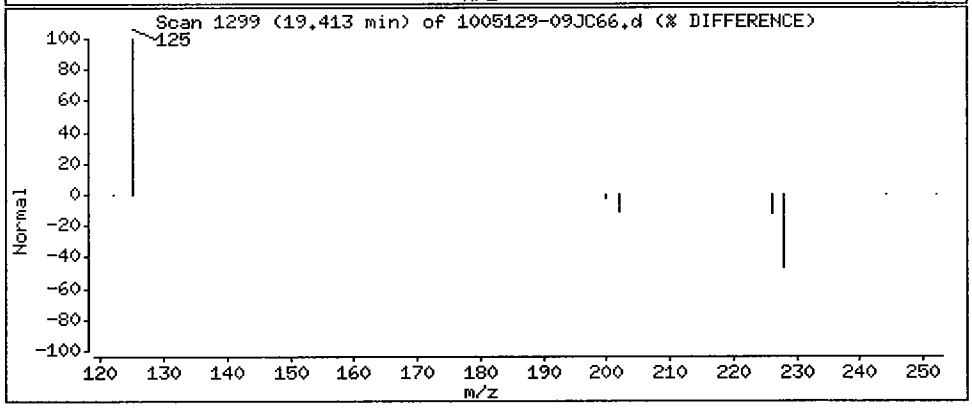












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d

Date : 28-MAY-2010 07:55

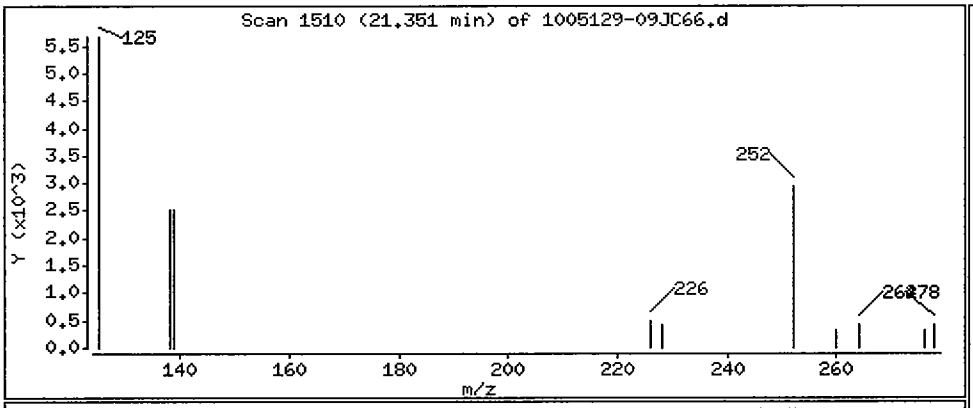
Client ID: SS56-0-1 Instrument: 5972hp66.i

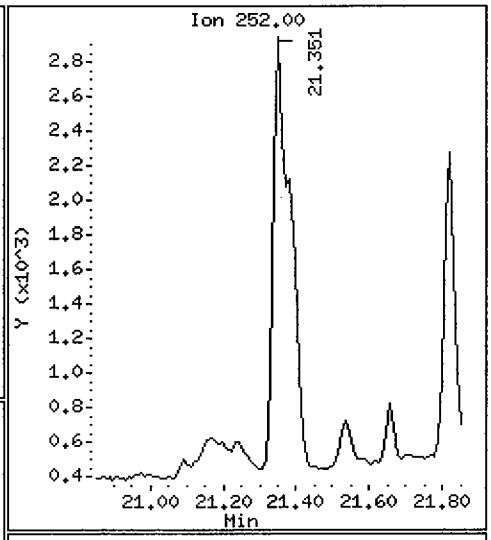
Sample Info: 1005129-09:2743

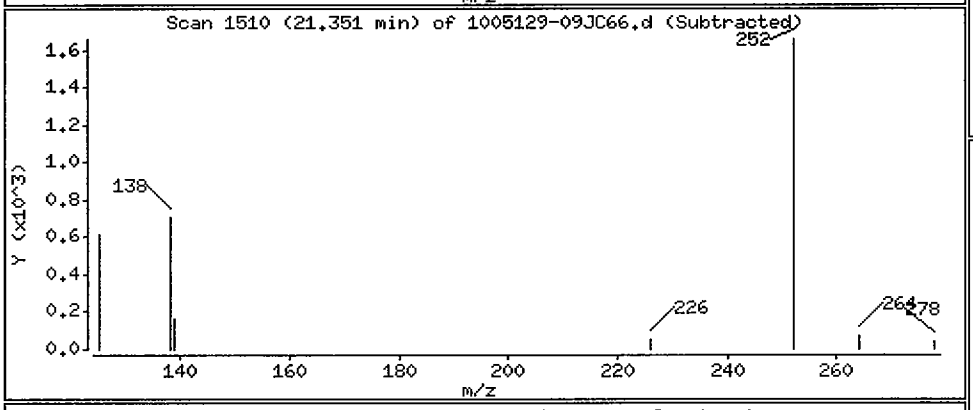
Volume Injected (uL): 2.0 Operator: 2743

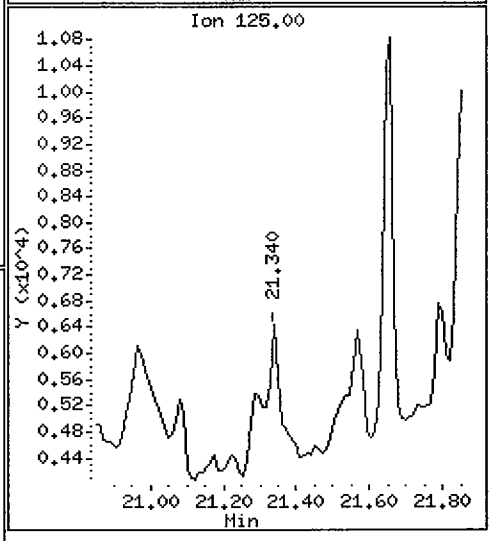
Column phase: Rtx-5MS Column diameter: 0.32

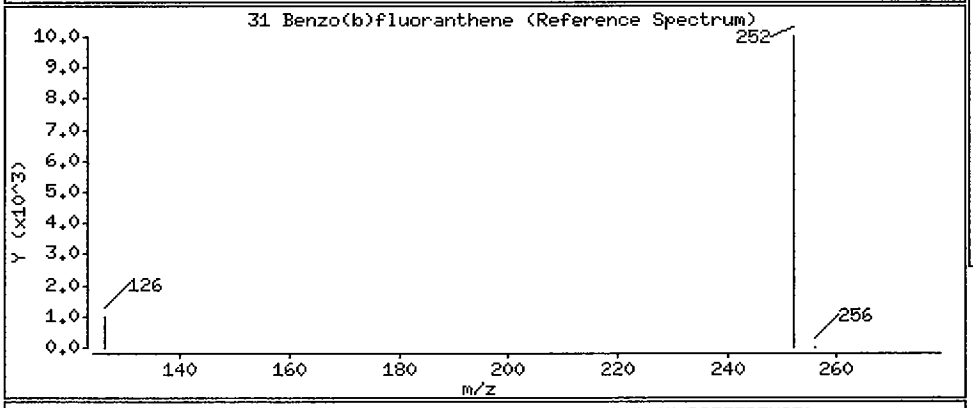
31 Benzo(b)fluoranthene Concentration: 1.1 ug/Kg

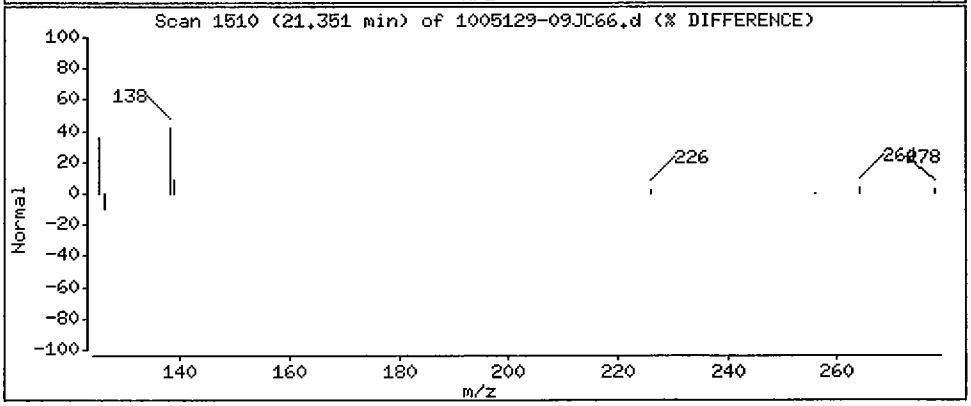












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d

Date : 28-MAY-2010 07:55

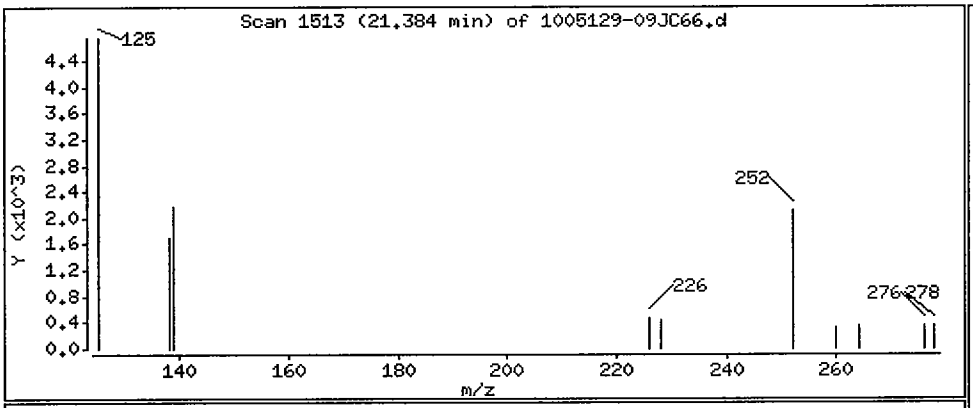
Client ID: SS56-0-1 Instrument: 5972hp66.i

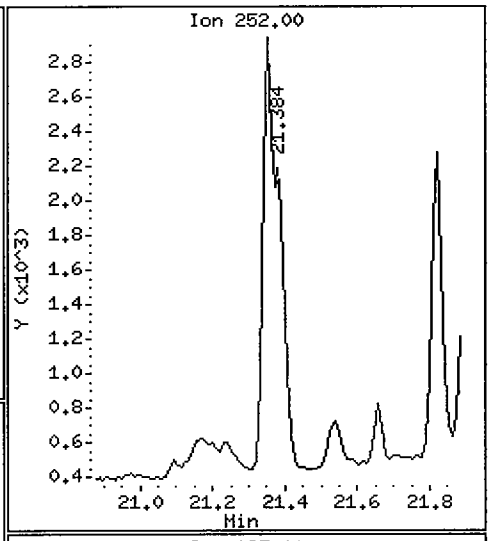
Sample Info: 1005129-09:2743

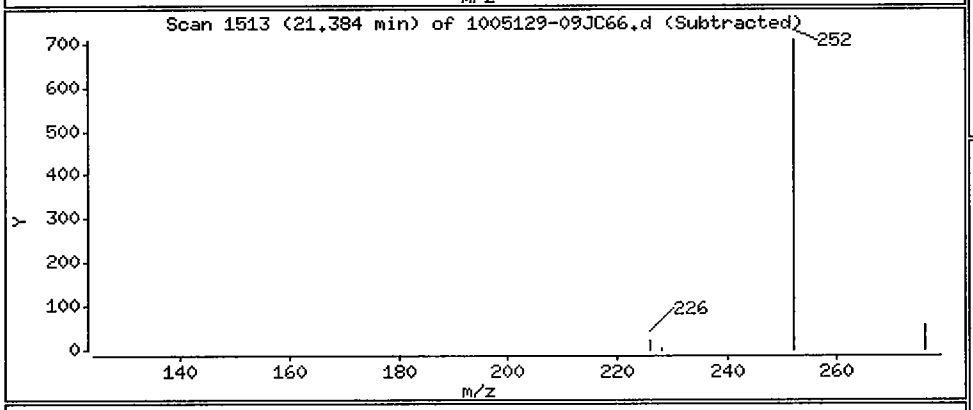
Volume Injected (uL): 2.0 Operator: 2743

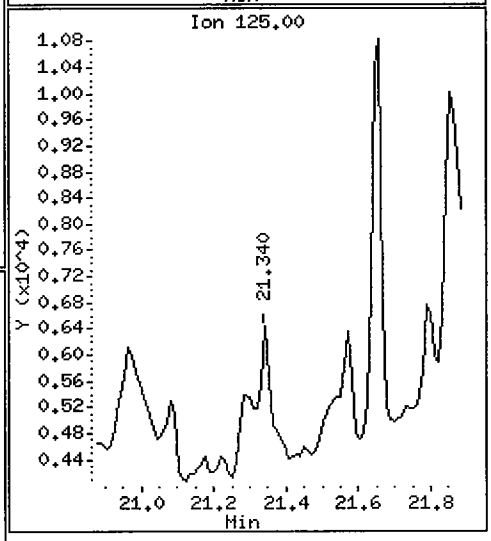
Column phase: Rtx-5MS Column diameter: 0.32

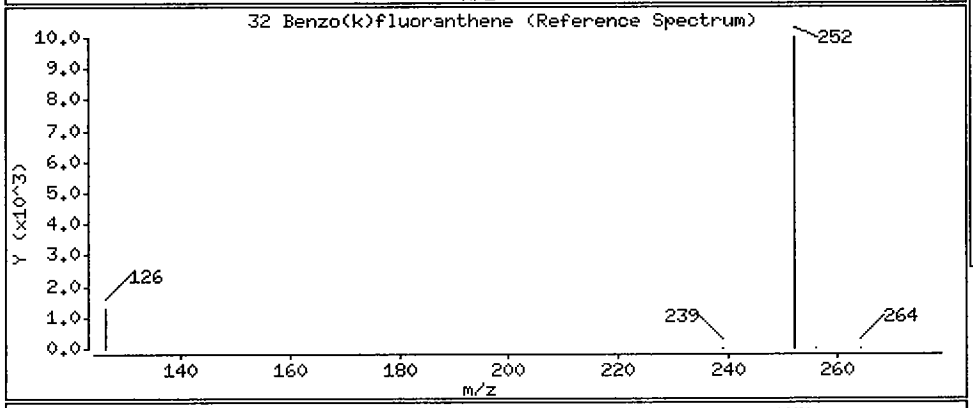
32 Benzo(k)fluoranthene Concentration: 0.63 ug/Kg

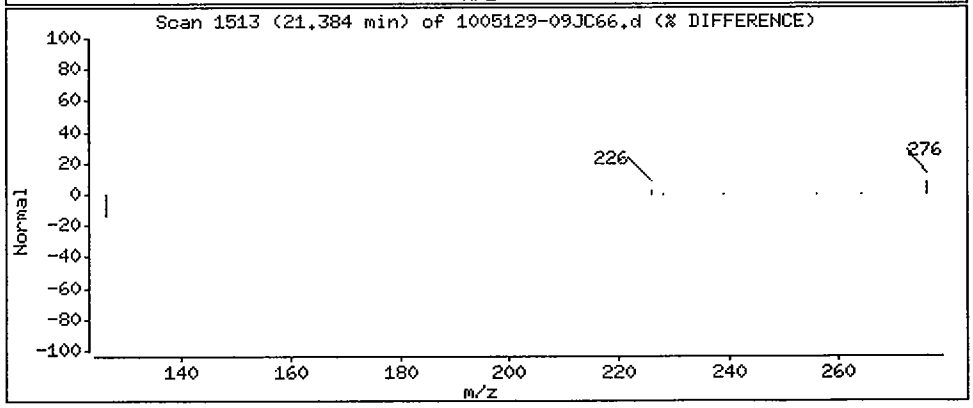












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d

Date : 28-MAY-2010 07:55

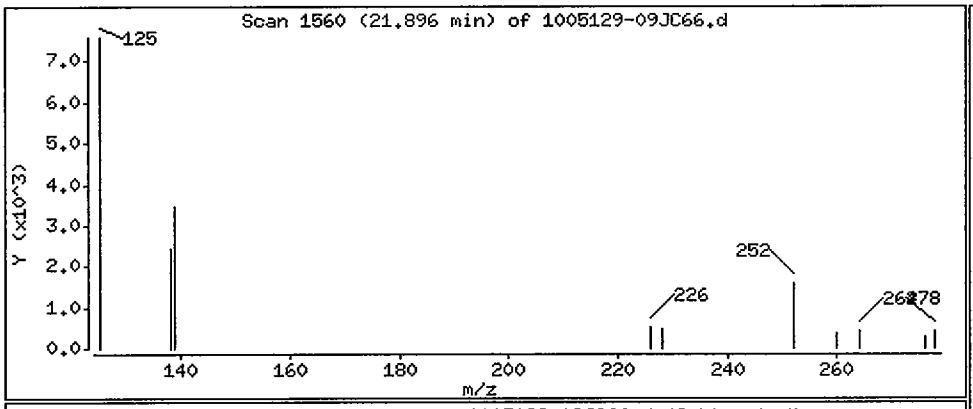
Client ID: SS56-0-1 Instrument: 5972hp66.i

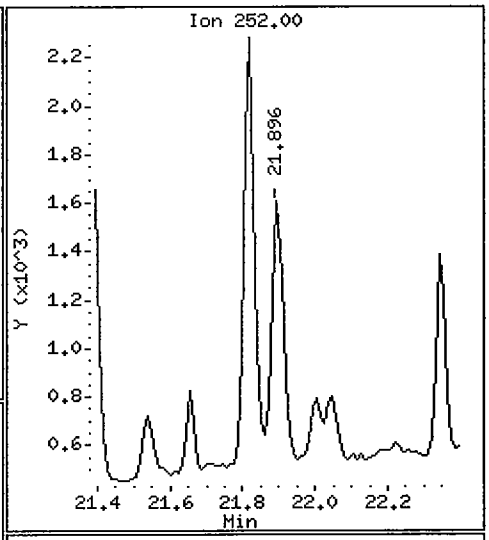
Sample Info: 1005129-09:2743

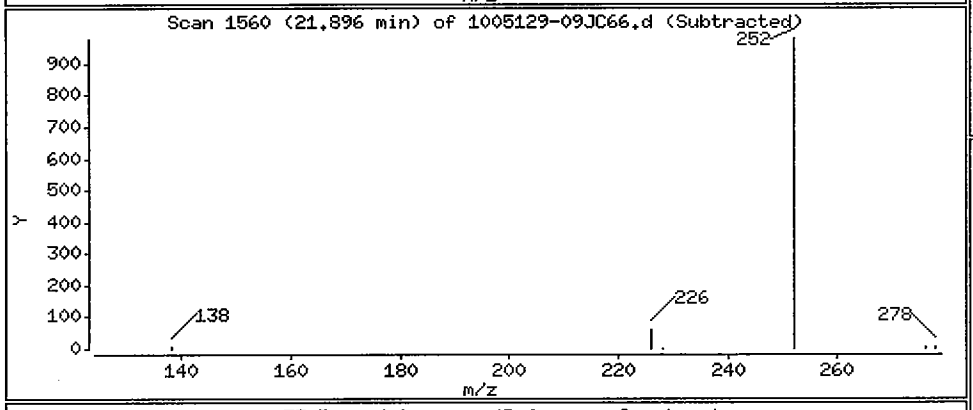
Volume Injected (uL): 2.0 Operator: 2743

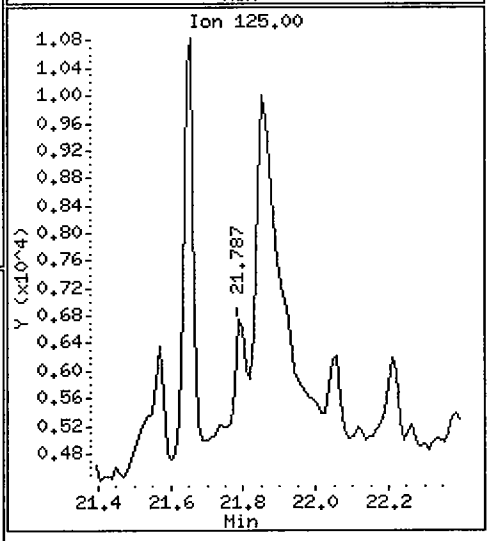
Column phase: Rtx-5MS Column diameter: 0.32

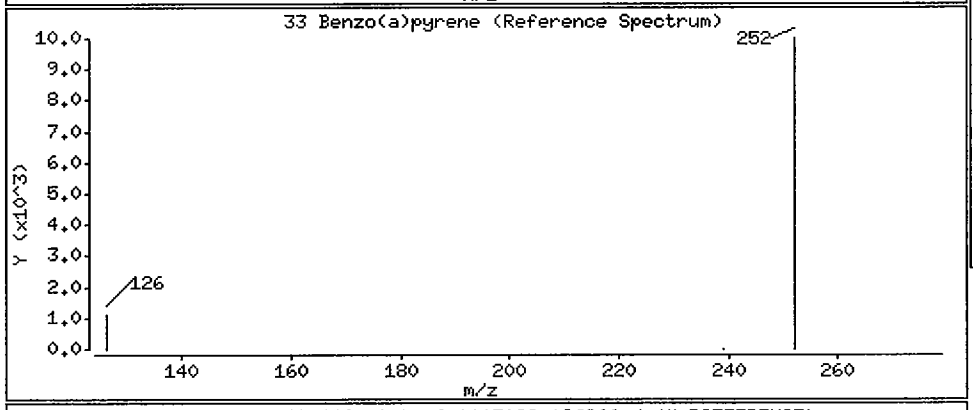
33 Benzo(a)pyrene Concentration: 0.48 ug/Kg

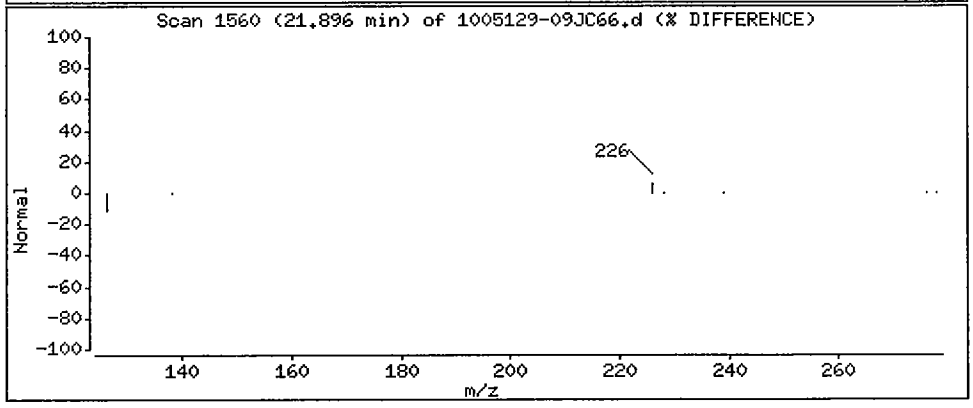












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d

Date : 28-MAY-2010 07:55

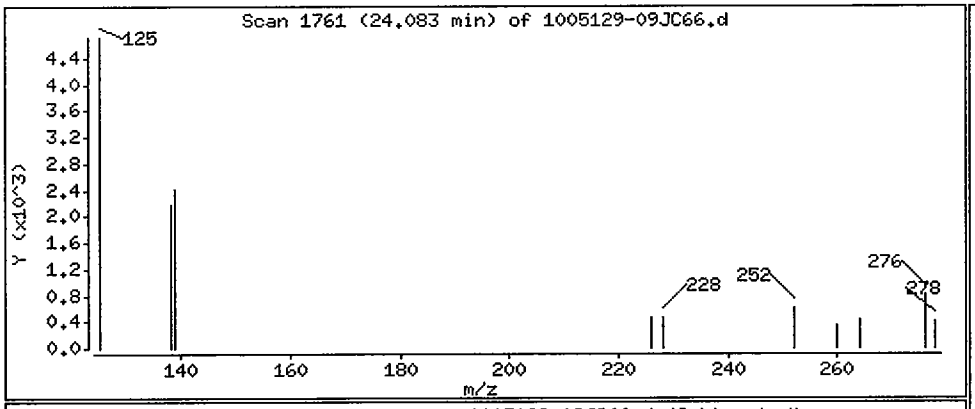
Client ID: SS56-0-1 Instrument: 5972hp66.i

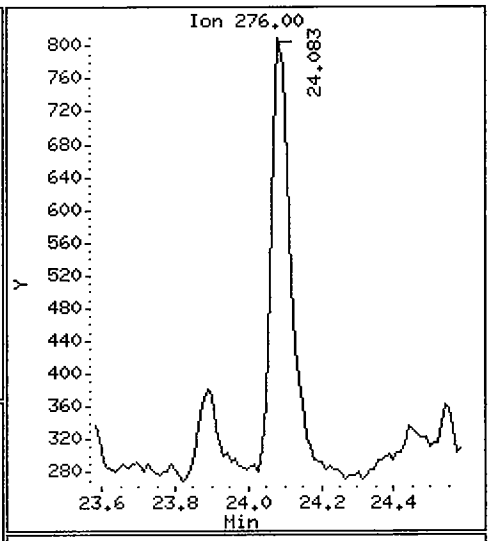
Sample Info: 1005129-09:2743

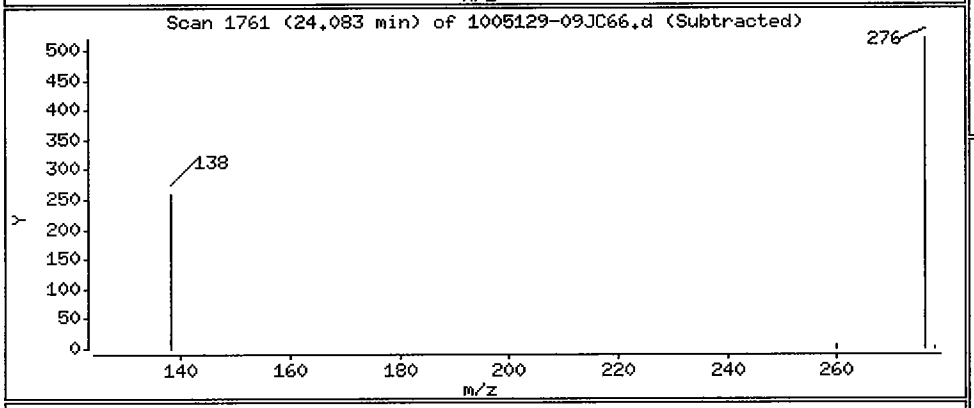
Volume Injected (uL): 2.0 Operator: 2743

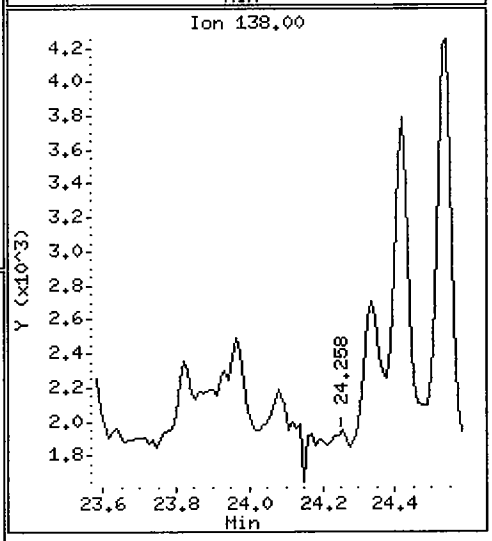
Column phase: Rtx-5MS Column diameter: 0.32

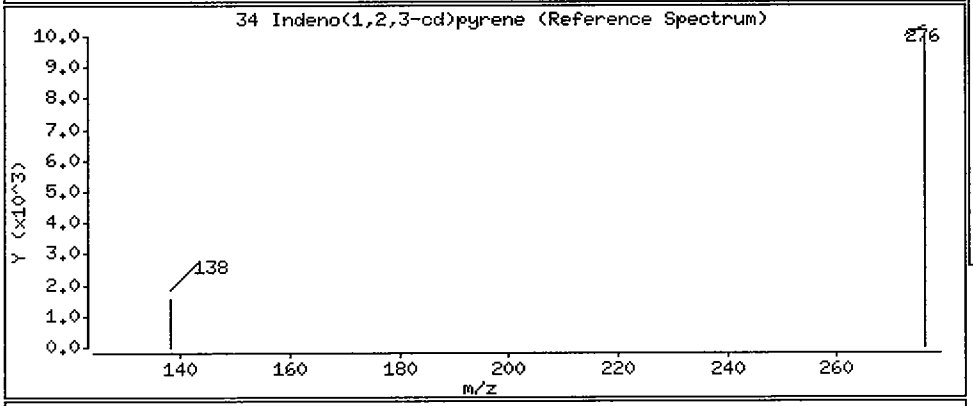
34 Indeno(1,2,3-cd)pyrene Concentration: 0.46 ug/Kg

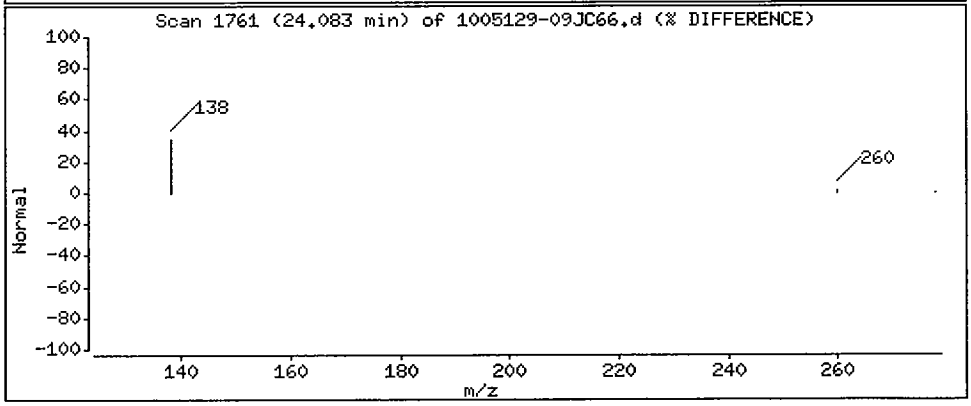












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-09JC66.d

Date : 28-MAY-2010 07:55

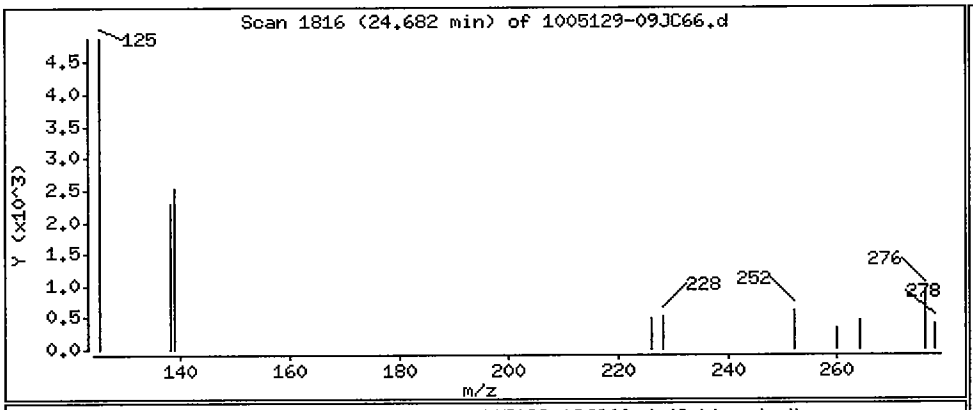
Client ID: SS56-0-1 Instrument: 5972hp66.i

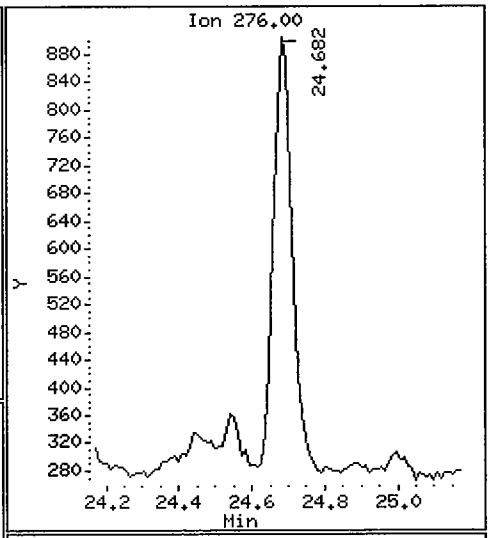
Sample Info: 1005129-09:2743

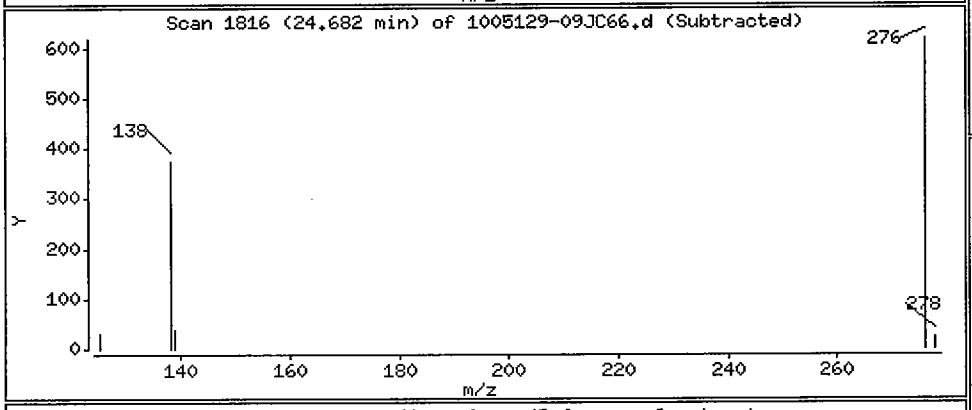
Volume Injected (uL): 2.0 Operator: 2743

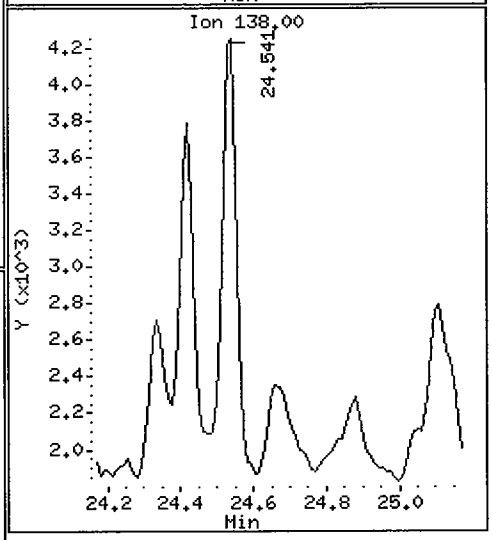
Column phase: Rtx-5MS Column diameter: 0.32

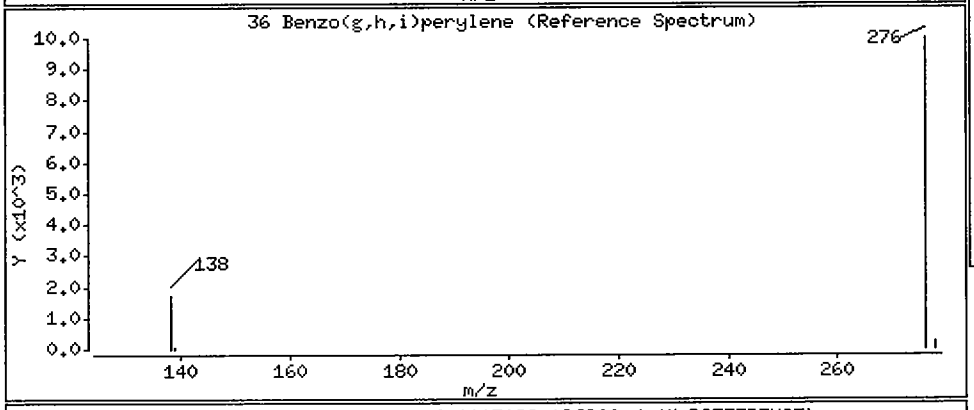
36 Benzo(g,h,i)perylene Concentration: 0.51 ug/Kg

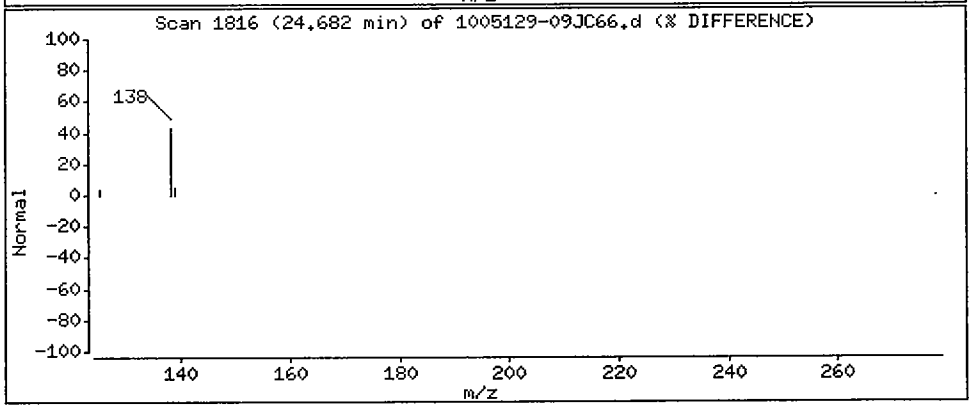












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS57-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-13
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-13C66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

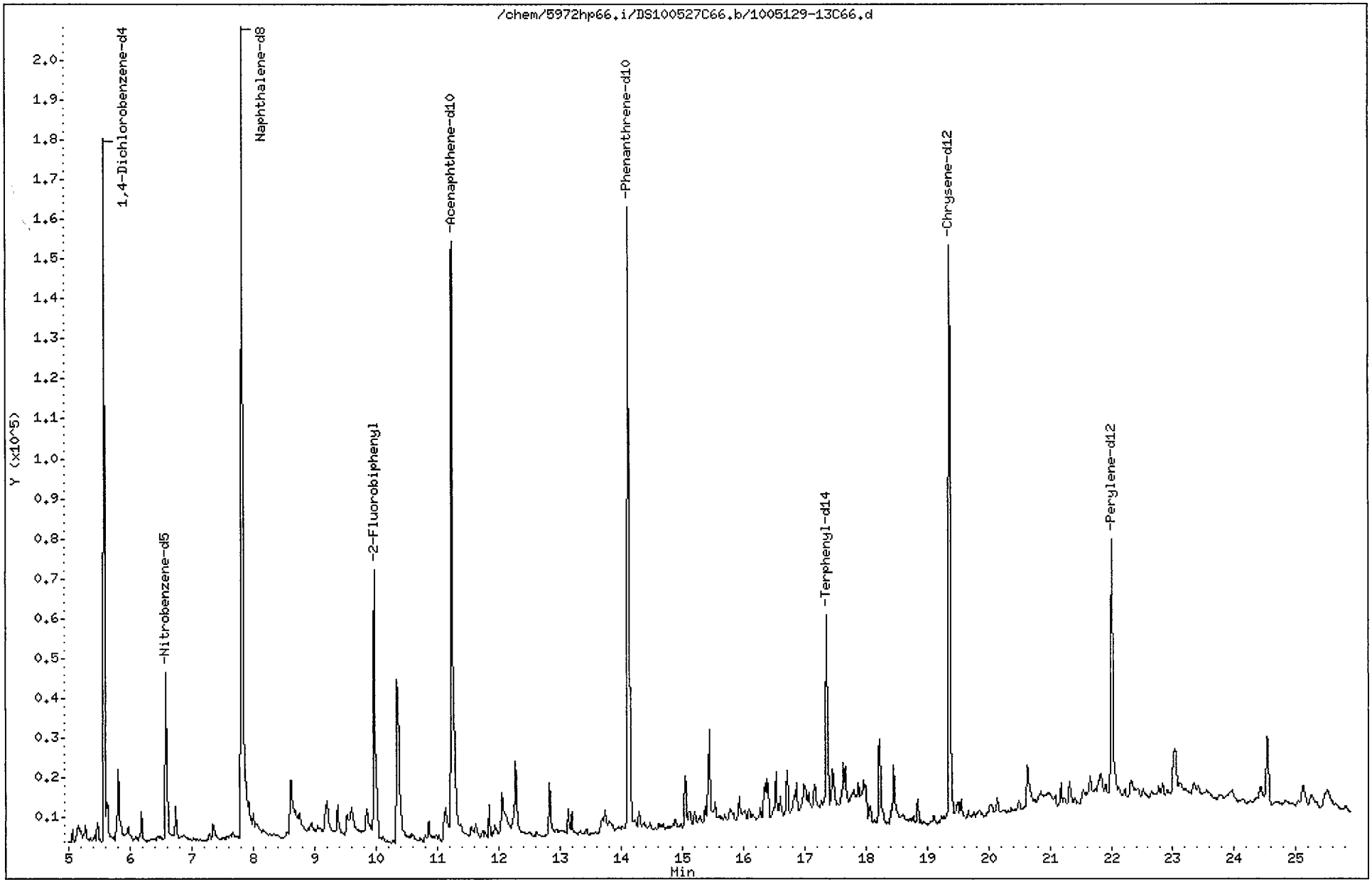
Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	ND	U
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-13C66.d
Date : 28-MAY-2010 10:11
Client ID: SS57-0-1
Instrument: 5972hp66.i
Sample Info: 1005129-13:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-13C66.d
Report Date: 02-Jun-2010 09:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-13C66.d
Lab Smp Id: 1005129-13 Client Smp ID: SS57-0-1
Inj Date : 28-MAY-2010 10:11
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-13:2743
Misc Info : SS57-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	21.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.584	5.560	(1.000)	107600	2.00000		(a)
*	2 Naphthalene-d8	136	7.813	7.815	(1.000)	335041	2.00000		(a)
*	3 Acenaphthene-d10	164	11.244	11.231	(1.000)	157086	2.00000		(a)
*	4 Phenanthrene-d10	188	14.126	14.126	(1.000)	263584	2.00000		(a)
*	5 Chrysene-d12	240	19.371	19.371	(1.000)	200668	2.00000		(a)
*	6 Perylene-d12	264	22.005	22.004	(1.000)	108312	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.588	6.576	(0.843)	50173	0.67298	14	
$	10 2-Fluorobiphenyl	172	9.977	9.978	(0.887)	115363	0.70377	15	
$	12 Terphenyl-d14	244	17.372	17.372	(0.897)	72017	0.98774	21	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-13C66.d
Report Date: 02-Jun-2010 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS58-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-11
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-11JC66
Analyst: 2743

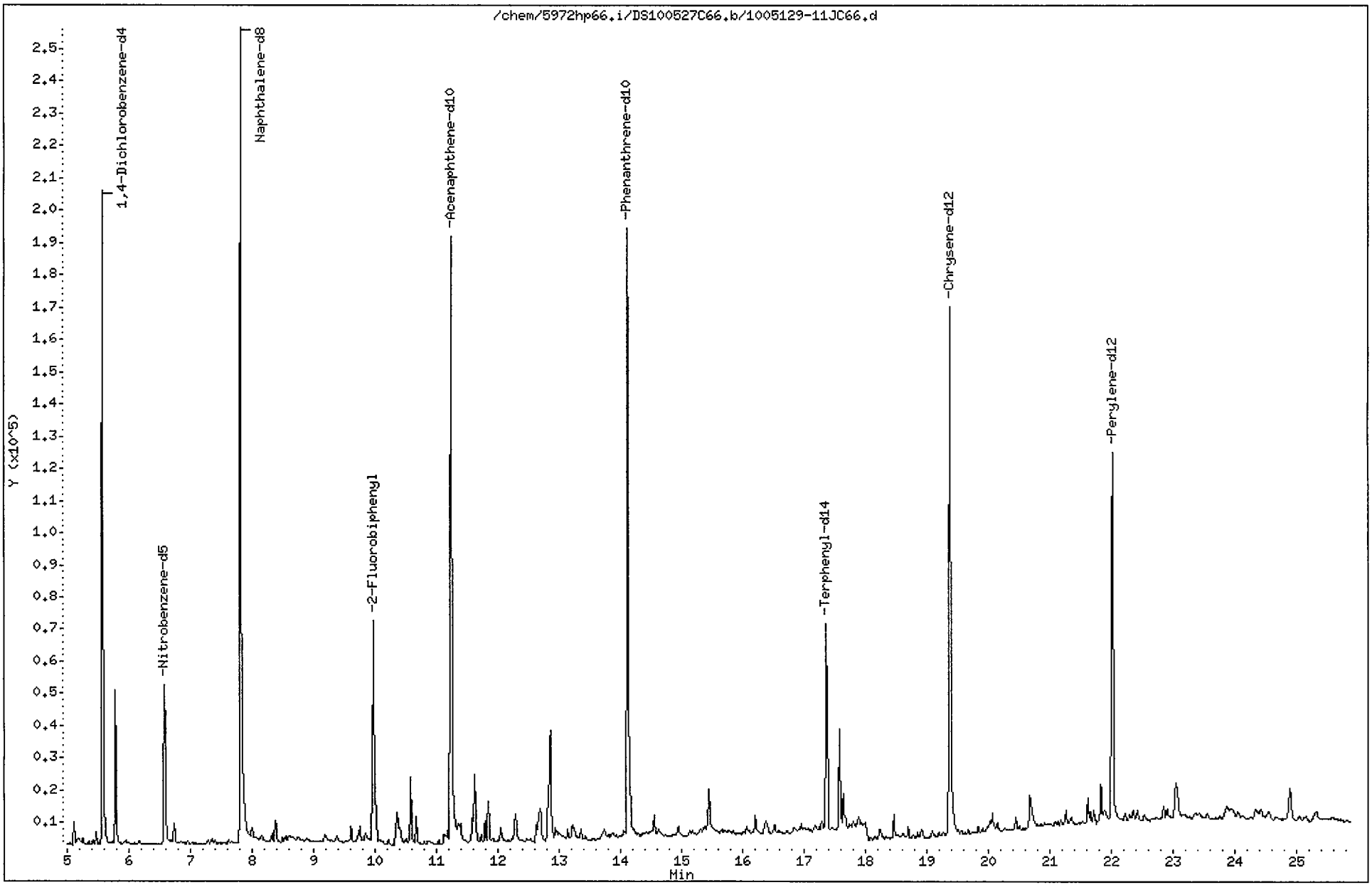
% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	ND	U
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-11JC66.d
Date : 28-MAY-2010 09:03
Client ID: SS58-0-1
Instrument: 5972hp66.i
Sample Info: 1005129-11:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-11JC66.d
Report Date: 02-Jun-2010 10:12

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-11JC66.d
Lab Smp Id: 1005129-11 Client Smp ID: SS58-0-1
Inj Date : 28-MAY-2010 09:03
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-11:2743
Misc Info : SS58-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1	1,4-Dichlorobenzene-d4	152	5.574	5.560	(1.000)	111967	2.00000		(a)
* 2	Naphthalene-d8	136	7.816	7.815	(1.000)	358736	2.00000		(aM) 2 06/2/10
* 3	Acenaphthene-d10	164	11.231	11.231	(1.000)	168625	2.00000		(a)
* 4	Phenanthrene-d10	188	14.114	14.126	(1.000)	317190	2.00000		(a)
* 5	Chrysene-d12	240	19.371	19.371	(1.000)	249522	2.00000		(a)
* 6	Perylene-d12	264	22.005	22.004	(1.000)	192473	2.00000		(a)
$ 9	Nitrobenzene-d5	82	6.577	6.576	(0.842)	57928	0.72568	13	
$ 10	2-Fluorobiphenyl	172	9.966	9.978	(0.887)	112112	0.63713	11	
$ 12	Terphenyl-d14	244	17.361	17.372	(0.896)	86067	0.94932	17	
13	Naphthalene	128	Compound Not Detected.						
15	2-Methylnaphthalene	141	Compound Not Detected.						
17	Acenaphthylene	152	Compound Not Detected.						
18	Acenaphthene	154	Compound Not Detected.						

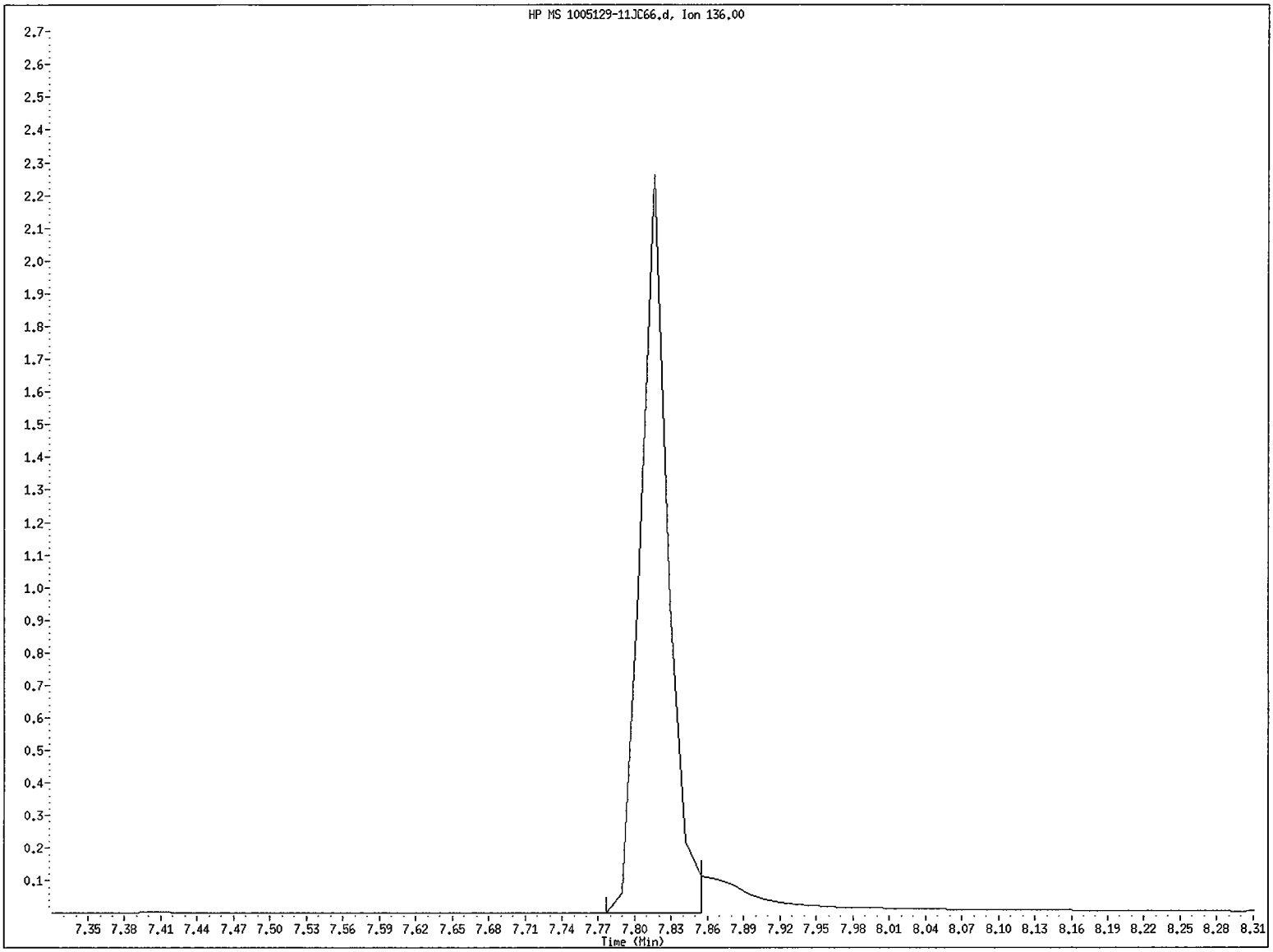
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-11JC66.d
Report Date: 02-Jun-2010 10:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

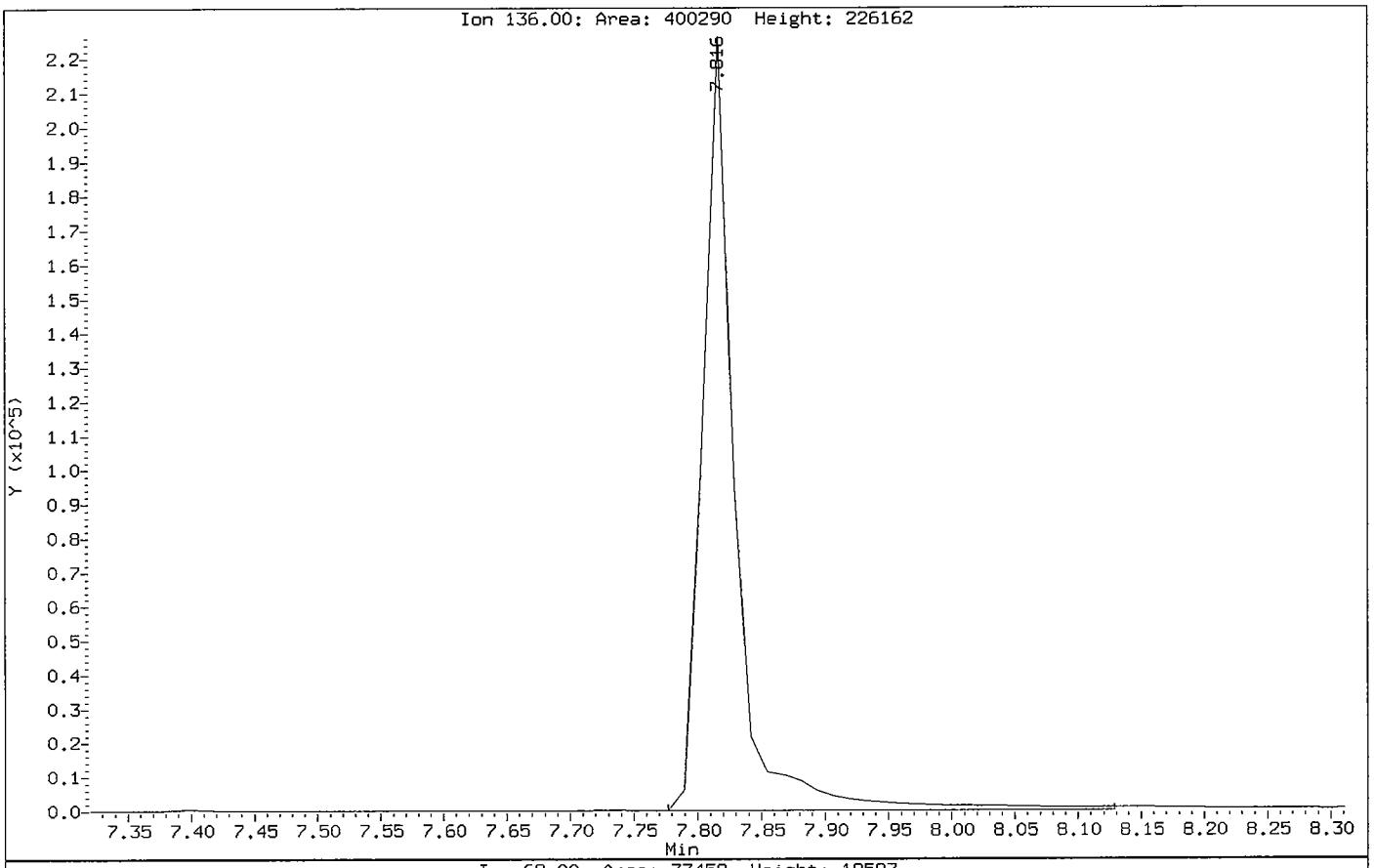
Naphthalene-d8 CAS Number 1146-65-2 Area = 358736 Manually integrated

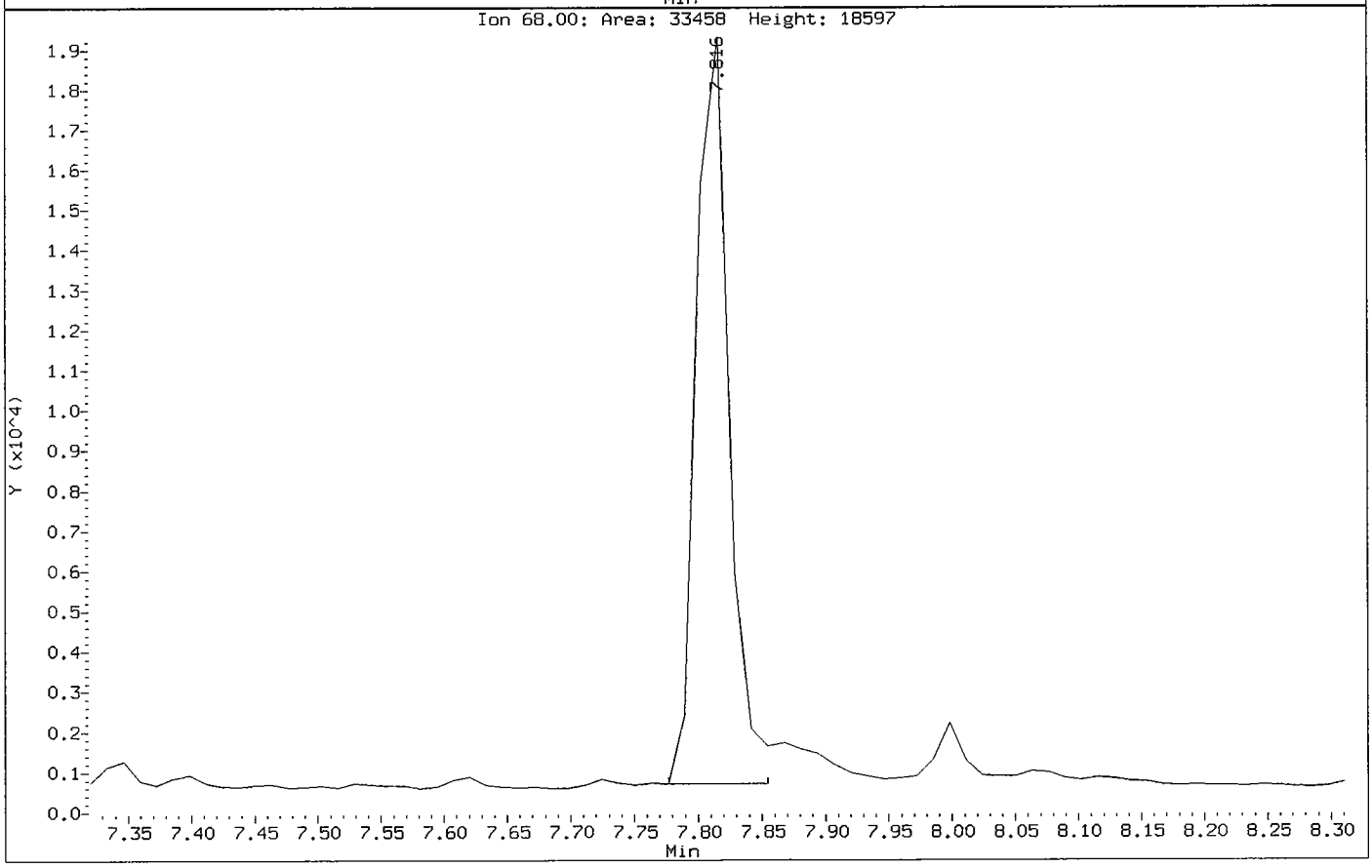


File name: /chem/5972hp66.i/DS100527C66.b/1005129-11JC66.d
Client ID: SS58-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 09:03
Retention Time: 7.82
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-11JC66.d
Injection Date: 28-MAY-2010 09:03
Instrument: 5972hp66.i
Client Sample ID: SS58-0-1

Compound: Naphthalene-d8
CAS Number: 1146-65-2





1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS59-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-15
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-15C66
Analyst: 2743

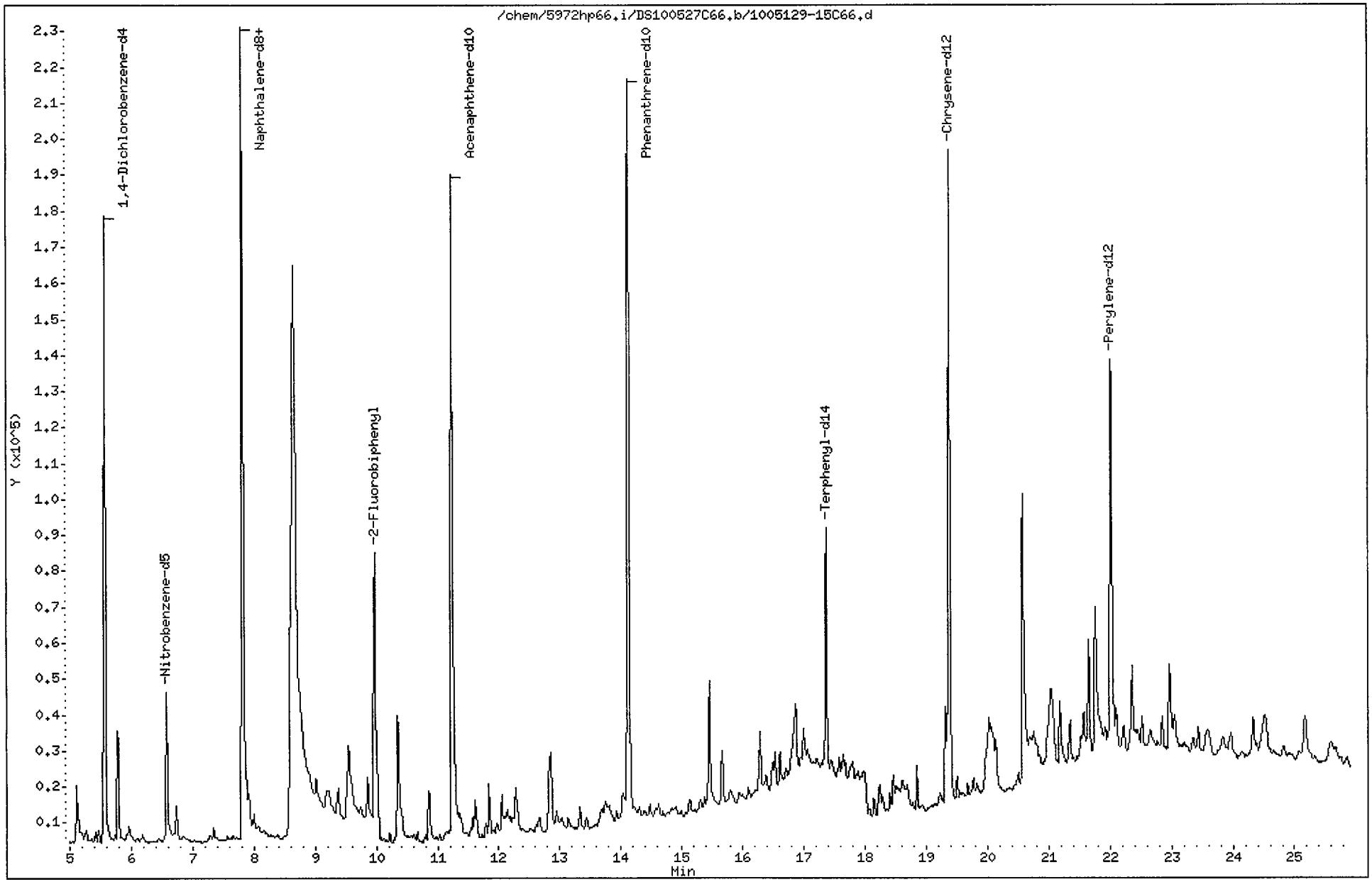
% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	0.98	J
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-15C66.d
Date : 28-MAY-2010 11:19
Client ID: SS59-00-01
Instrument: 5972hp66.i
Sample Info: 1005129-15:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-15C66.d
Report Date: 02-Jun-2010 09:50

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-15C66.d
Lab Smp Id: 1005129-15 Client Smp ID: SS59-00-01
Inj Date : 28-MAY-2010 11:19
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-15:2743
Misc Info : SS59-00-01
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1	1,4-Dichlorobenzene-d4	152	5.584	5.560	(1.000)	115545	2.00000		(a)
* 2	Naphthalene-d8	136	7.813	7.815	(1.000)	369127	2.00000		(a)
* 3	Acenaphthene-d10	164	11.231	11.231	(1.000)	182060	2.00000		(a)
* 4	Phenanthrene-d10	188	14.126	14.126	(1.000)	349017	2.00000		(a)
* 5	Chrysene-d12	240	19.379	19.371	(1.000)	282722	2.00000		(a)
* 6	Perylene-d12	264	22.016	22.004	(1.000)	207466	2.00000		(a)
$ 9	Nitrobenzene-d5	82	6.587	6.576	(0.843)	59410	0.72330	13	
$ 10	2-Fluorobiphenyl	172	9.976	9.978	(0.888)	132836	0.69920	12	
$ 12	Terphenyl-d14	244	17.372	17.372	(0.896)	97499	0.94913	17	
13	Naphthalene	128	7.852	7.841	(1.005)	12706	0.05565	0.98	(a)
15	2-Methylnaphthalene	141	Compound Not Detected.						
17	Acenaphthylene	152	Compound Not Detected.						
18	Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-15C66.d
Report Date: 02-Jun-2010 09:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-15C66.d

Date : 28-MAY-2010 11:19

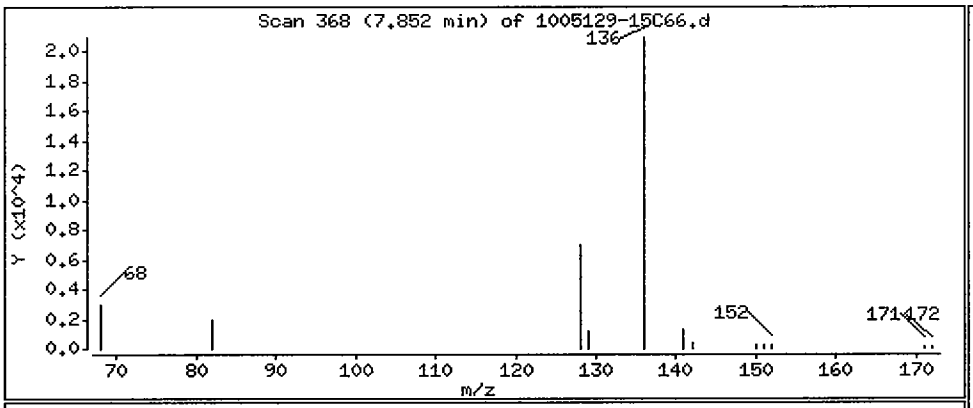
Client ID: SS59-00-01 Instrument: 5972hp66.i

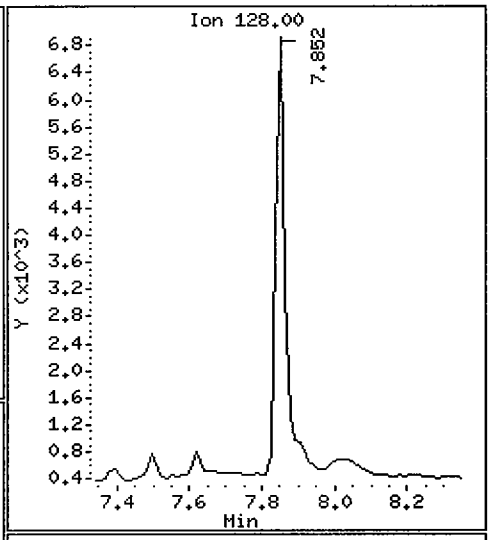
Sample Info: 1005129-15:2743

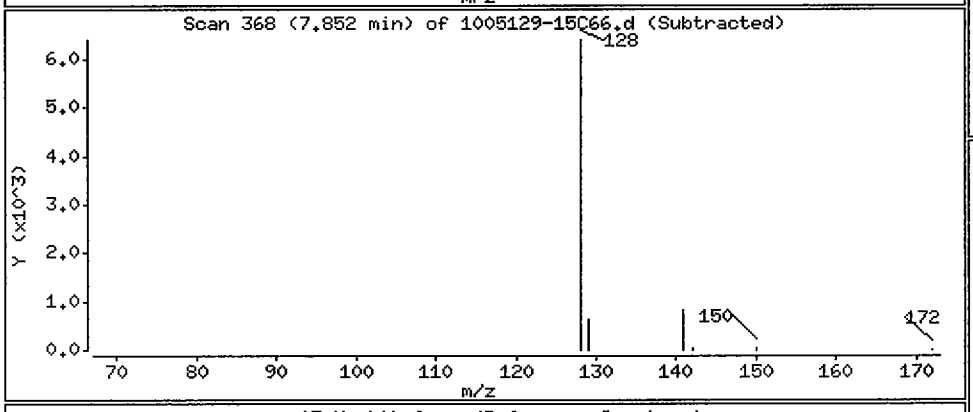
Volume Injected (uL): 2.0 Operator: 2743

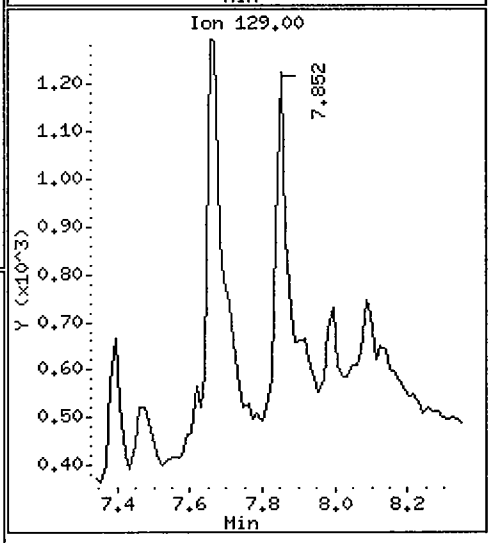
Column phase: Rtx-5MS Column diameter: 0.32

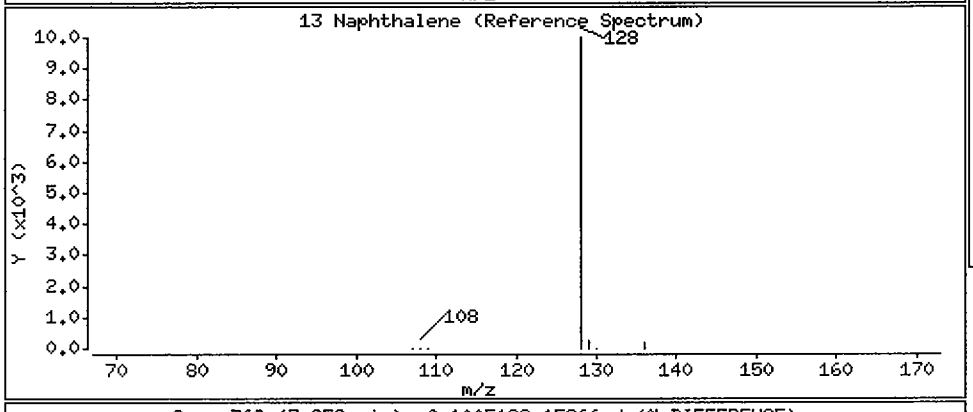
13 Naphthalene Concentration: 0.98 ug/Kg

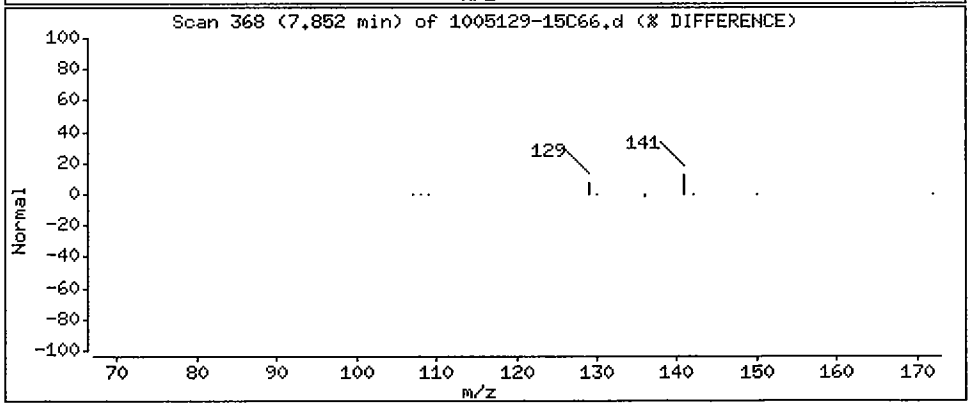












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS60-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-14
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-14C66
Analyst: 2743

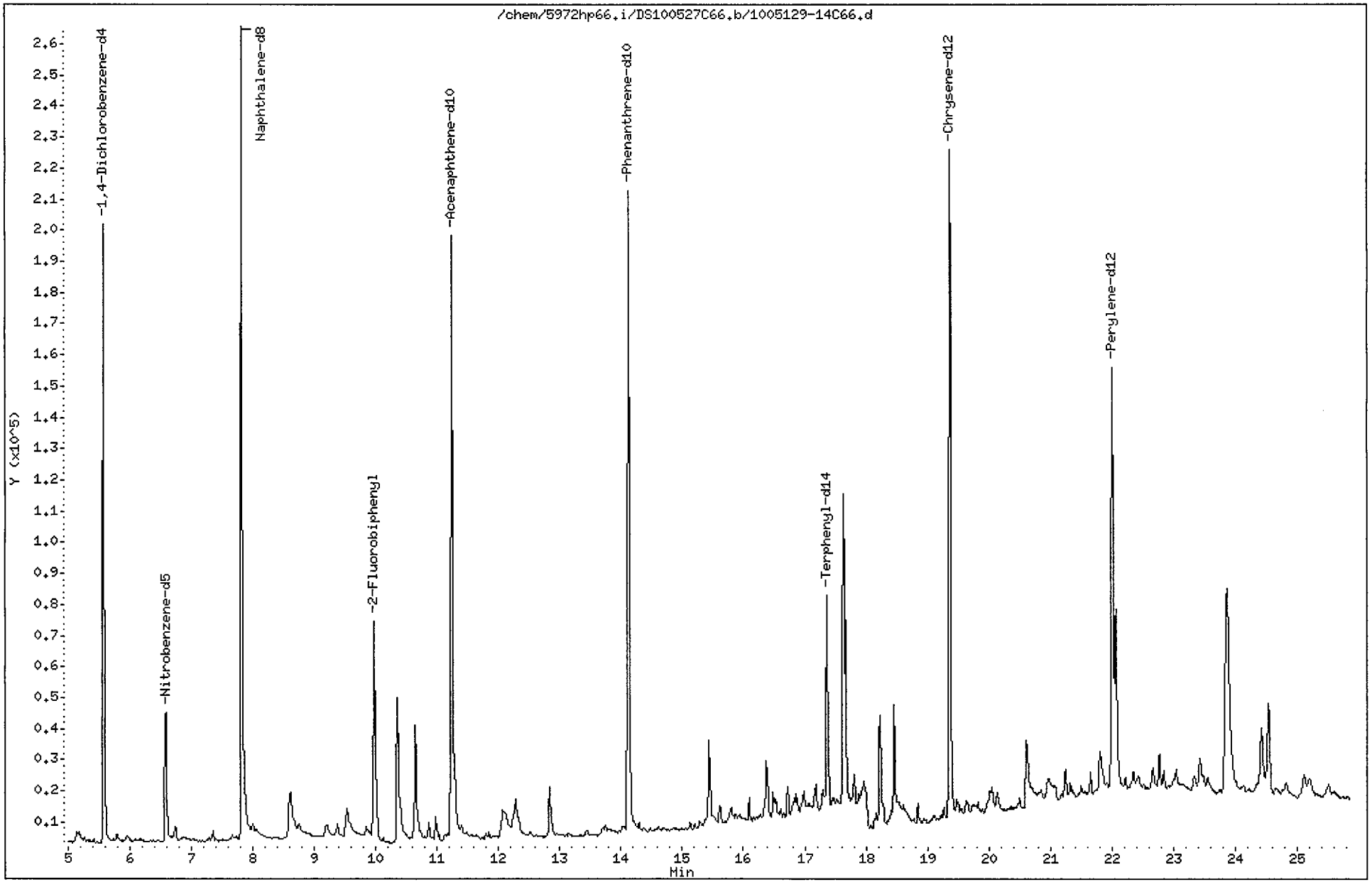
% Moisture: 9 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.79	9.1	ND	U
91-57-6	2-Methylnaphthalene	0.75	9.1	ND	U
208-96-8	Acenaphthylene	0.59	9.1	ND	U
83-32-9	Acenaphthene	0.66	9.1	ND	U
86-73-7	Fluorene	0.49	9.1	ND	U
85-01-8	Phenanthrene	1.4	9.1	ND	U
120-12-7	Anthracene	0.48	9.1	ND	U
206-44-0	Fluoranthene	1.5	9.1	ND	U
129-00-0	Pyrene	0.62	9.1	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.1	ND	U
218-01-9	Chrysene	0.70	9.1	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.1	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.1	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.1	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.1	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.1	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.1	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-14C66.d
Date : 28-MAY-2010 10:45
Client ID: SS60-00-01
Instrument: 5972hp66.i
Sample Info: 1005129-14:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-14C66.d
Report Date: 02-Jun-2010 09:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-14C66.d
Lab Smp Id: 1005129-14 Client Smp ID: SS60-00-01
Inj Date : 28-MAY-2010 10:45
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-14:2743
Misc Info : SS60-00-01
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	9.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.572	5.560	(1.000)	116801	2.00000		
*	2 Naphthalene-d8	136	7.814	7.815	(1.000)	386297	2.00000		
*	3 Acenaphthene-d10	164	11.243	11.231	(1.000)	197216	2.00000		
*	4 Phenanthrene-d10	188	14.127	14.126	(1.000)	362797	2.00000		
*	5 Chrysene-d12	240	19.370	19.371	(1.000)	302687	2.00000		
*	6 Perylene-d12	264	22.015	22.004	(1.000)	240328	2.00000		
$	9 Nitrobenzene-d5	82	6.576	6.576	(0.842)	57692	0.67116	12	
$	10 2-Fluorobiphenyl	172	9.978	9.978	(0.887)	126933	0.61678	11	
$	12 Terphenyl-d14	244	17.360	17.372	(0.896)	97504	0.88657	16	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

06/11/10

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-14C66.d
Report Date: 02-Jun-2010 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS78-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-20
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-20C66
Analyst: 2743

% Moisture: 7 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

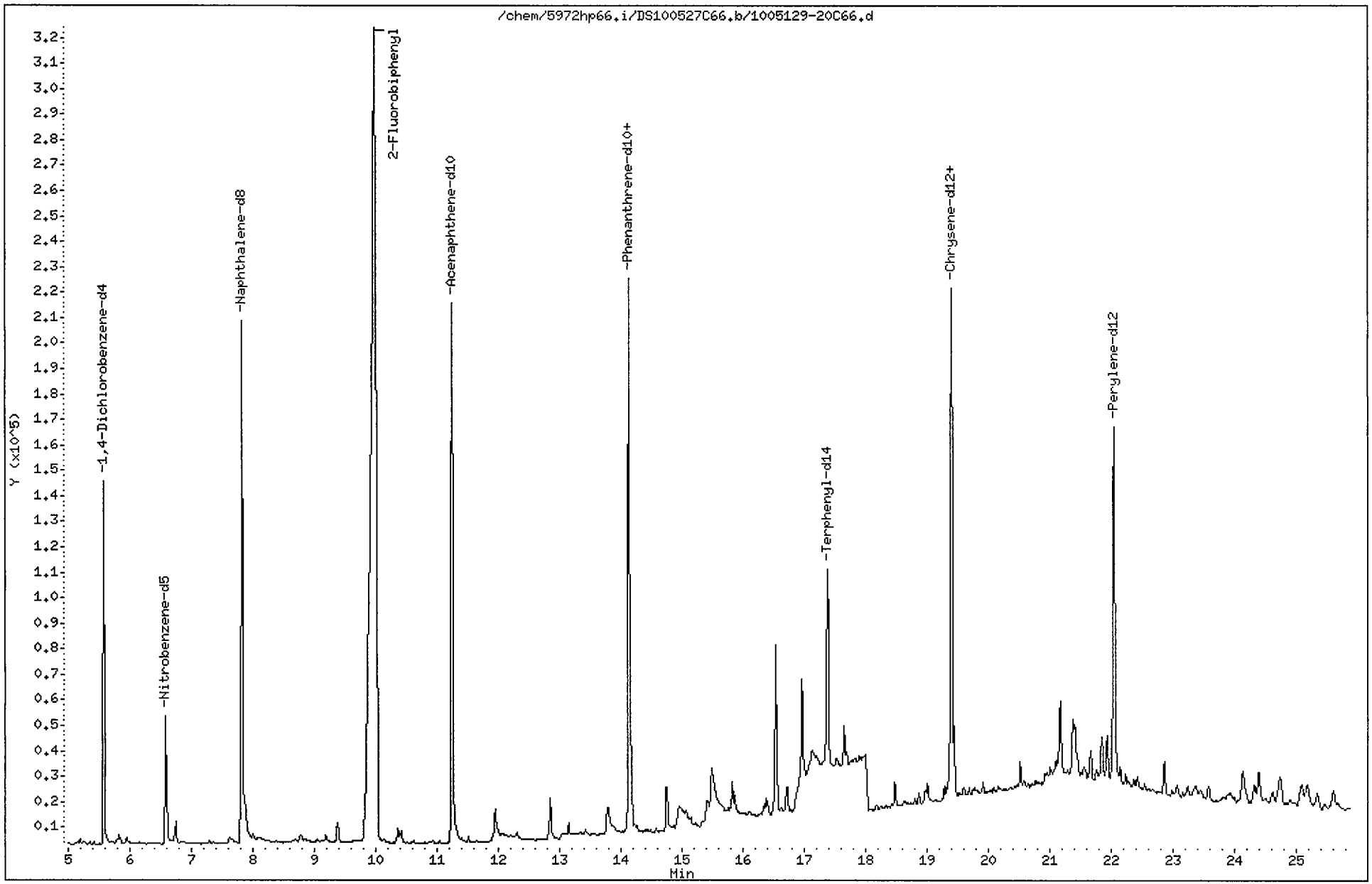
Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.77	8.9	ND	U
91-57-6	2-Methylnaphthalene	0.73	8.9	ND	U
208-96-8	Acenaphthylene	0.57	8.9	ND	U
83-32-9	Acenaphthene	0.65	8.9	ND	U
86-73-7	Fluorene	0.48	8.9	ND	U
85-01-8	Phenanthrene	1.4	8.9	1.6	J
120-12-7	Anthracene	0.47	8.9	ND	U
206-44-0	Fluoranthene	1.4	8.9	6.0	J
129-00-0	Pyrene	0.61	8.9	4.9	J
56-55-3	Benzo(a)anthracene	0.61	8.9	2.7	J
218-01-9	Chrysene	0.68	8.9	3.9	J
205-99-2	Benzo(b)fluoranthene	0.61	8.9	4.2	J
207-08-9	Benzo(k)fluoranthene	0.47	8.9	4.4	J
50-32-8	Benzo(a)pyrene	0.41	8.9	3.6	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.9	3.6	J
53-70-3	Dibenzo(a,h)anthracene	0.36	8.9	1.0	J
191-24-2	Benzo(g,h,i)perylene	0.41	8.9	3.2	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d
Date : 28-MAY-2010 14:10
Client ID: SS78-0-1
Instrument: 5972hp66.i
Sample Info: 1005129-20:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d
Report Date: 02-Jun-2010 09:50

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d
Lab Smp Id: 1005129-20 Client Smp ID: SS78-0-1
Inj Date : 28-MAY-2010 14:10
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-20:2743
Misc Info : SS78-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	7.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.584	5.560	(1.000)	95575	2.00000	
*	2 Naphthalene-d8	136	7.826	7.815	(1.000)	324420	2.00000	
*	3 Acenaphthene-d10	164	11.244	11.231	(1.000)	176002	2.00000	
*	4 Phenanthrene-d10	188	14.126	14.126	(1.000)	349613	2.00000	
*	5 Chrysene-d12	240	19.397	19.371	(1.000)	298351	2.00000	
*	6 Perylene-d12	264	22.027	22.004	(1.000)	235215	2.00000	
$	9 Nitrobenzene-d5	82	6.588	6.576	(0.842)	54099	0.74940	13
$	10 2-Fluorobiphenyl	172	9.977	9.978	(0.887)	140122	0.76294	14
$	12 Terphenyl-d14	244	17.372	17.372	(0.896)	100711	0.92904	17
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d
Report Date: 02-Jun-2010 09:50

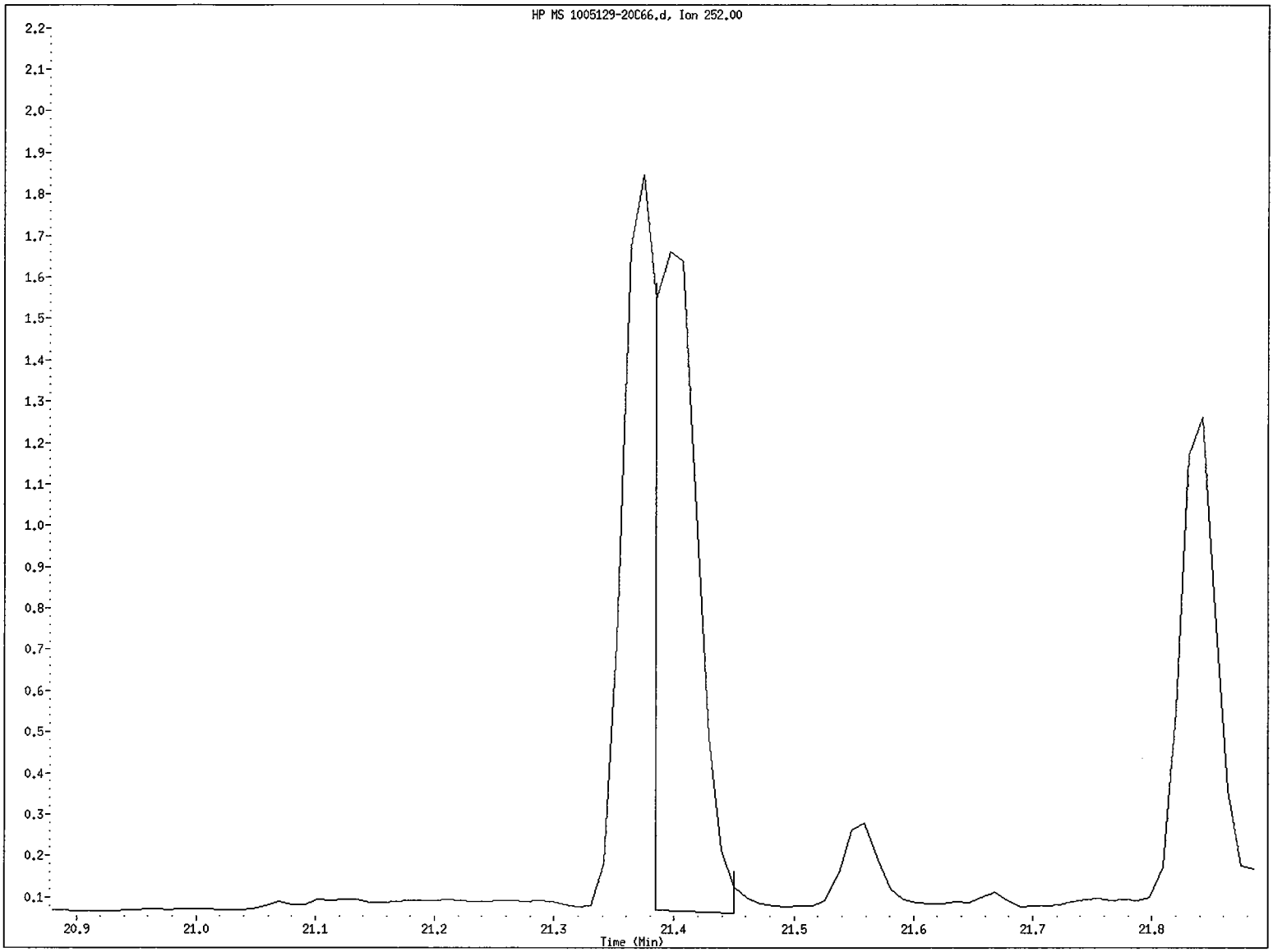
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.178	14.165	(1.004)	19644	0.09011	1.6(a)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	16.538	16.525	(0.853)	66430	0.33579	6.0(a)
28 Pyrene	202	16.955	16.942	(0.874)	59322	0.27535	4.9(a)
29 Benzo(a)anthracene	228	19.362	19.336	(0.998)	24351	0.15014	2.7(a)
30 Chrysene	228	19.440	19.414	(1.002)	38686	0.22022	3.9(a)
31 Benzo(b)fluoranthene	252	21.374	21.351	(0.970)	36440	0.23491	4.2(a)
32 Benzo(k)fluoranthene	252	21.396	21.383	(0.971)	41126	0.24636	4.4(aM)
33 Benzo(a)pyrene	252	21.918	21.895	(0.995)	27833	0.19911	3.6(a)
34 Indeno(1,2,3-cd)pyrene	276	24.117	24.083	(1.095)	24471	0.19843	3.6(a)
35 Dibenzo(a,h)anthracene	278	24.171	24.137	(1.097)	6783	0.05560	1.00(a)
36 Benzo(g,h,i)perylene	276	24.726	24.671	(1.123)	24172	0.17684	3.2(a)

2 each/w

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

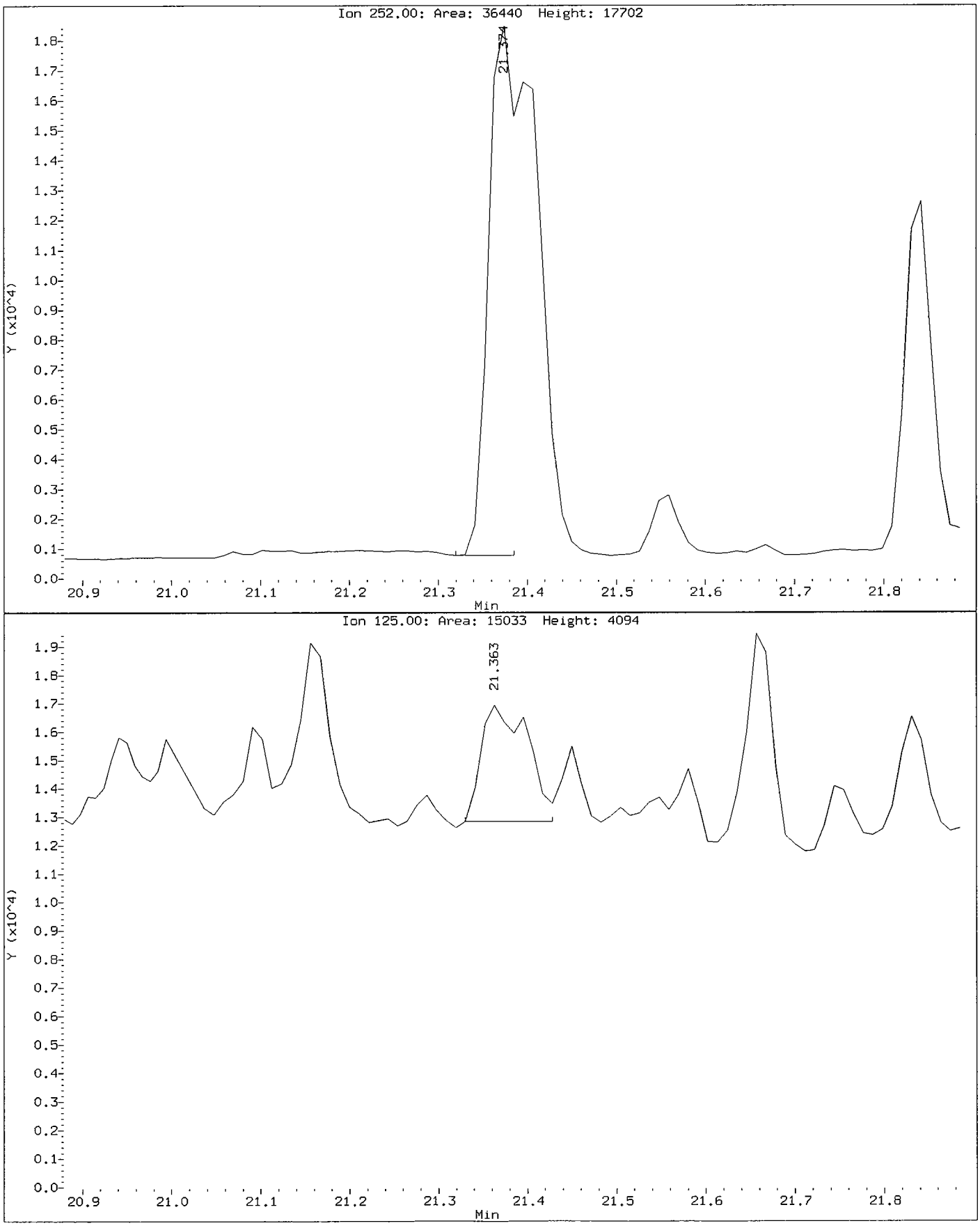
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 41126 Manually integrated



File name: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d
Client ID: SS78-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 14:10
Retention Time: 21.40
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d
Injection Date: 28-MAY-2010 14:10
Instrument: 5972hp66.i
Client Sample ID: SS78-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

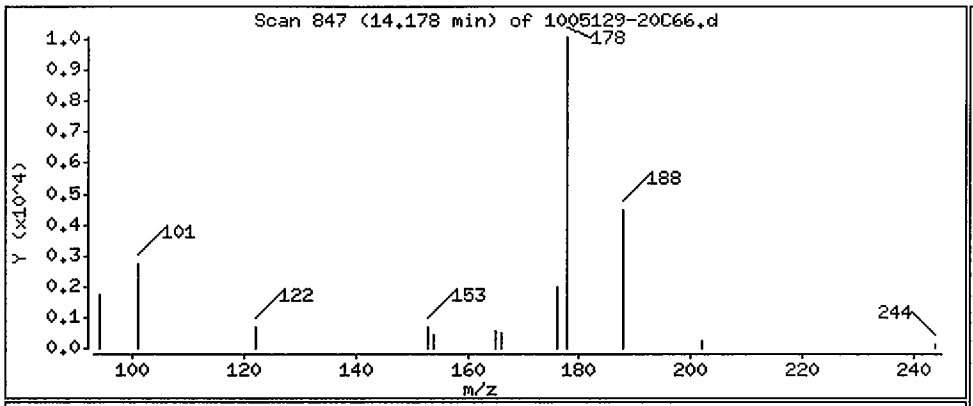
Client ID: SS78-0-1 Instrument: 5972hp66.i

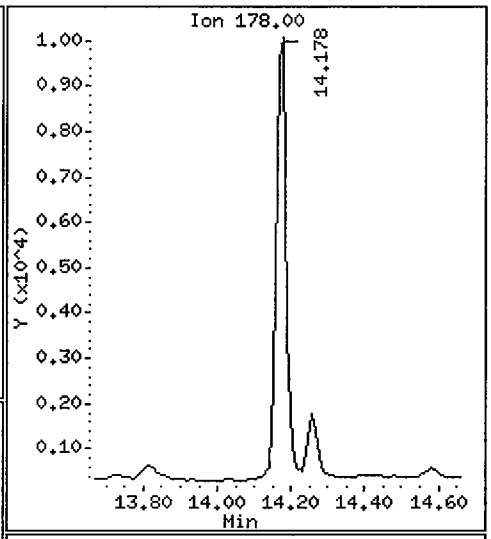
Sample Info: 1005129-20:2743

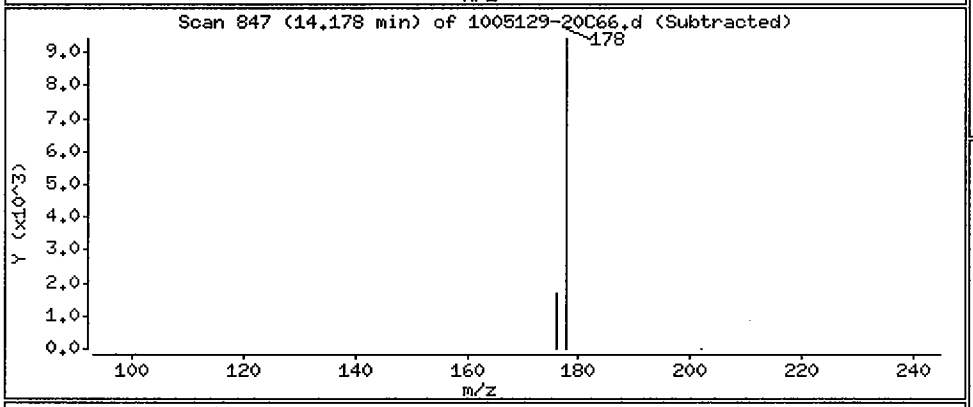
Volume Injected (uL): 2.0 Operator: 2743

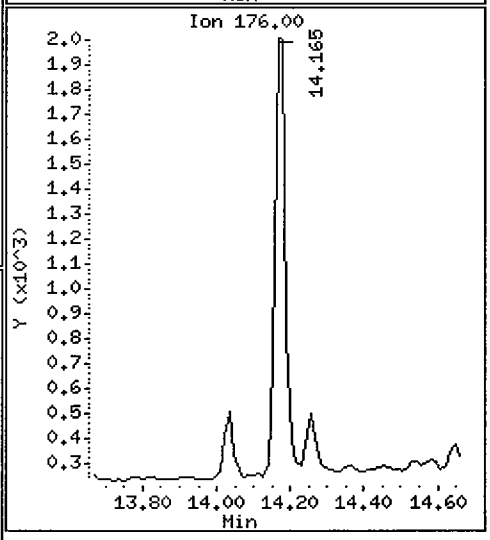
Column phase: Rtx-5MS Column diameter: 0.32

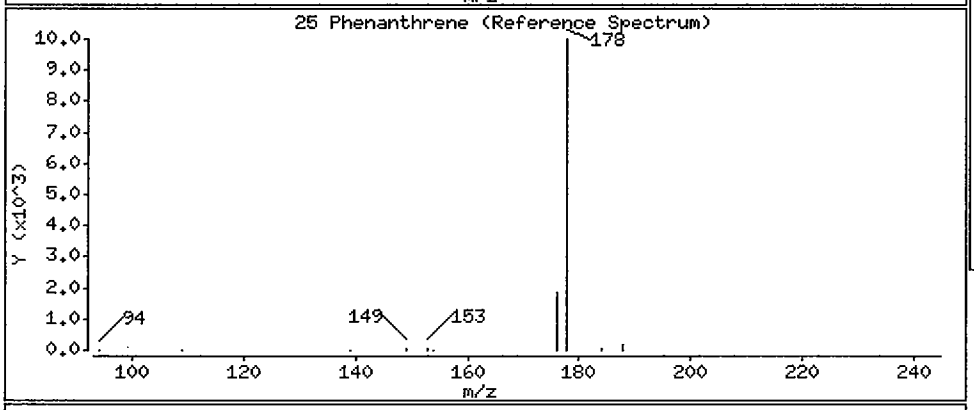
25 Phenanthrene Concentration: 1.6 ug/Kg

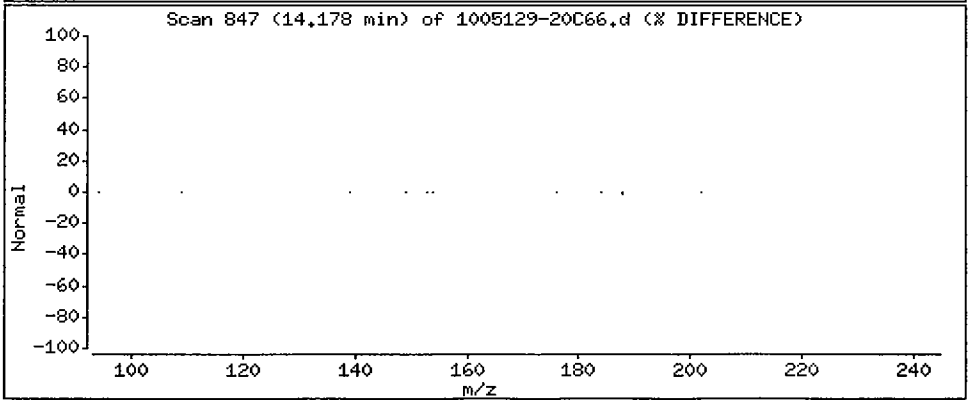












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

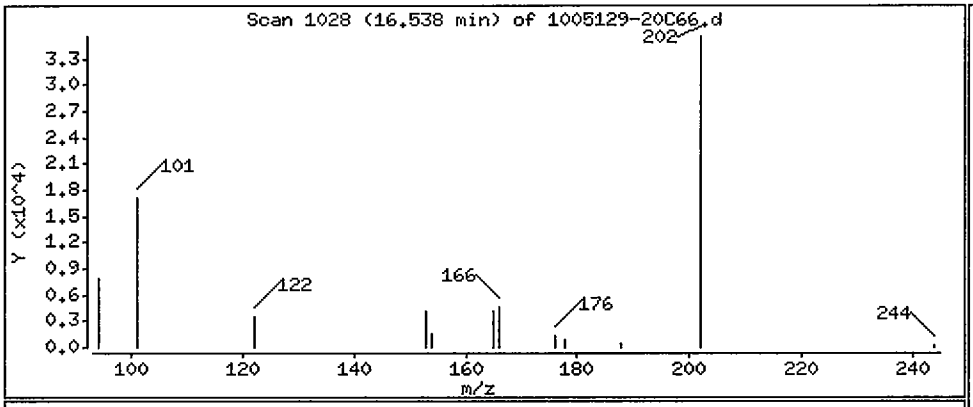
Client ID: SS78-0-1 Instrument: 5972hp66.i

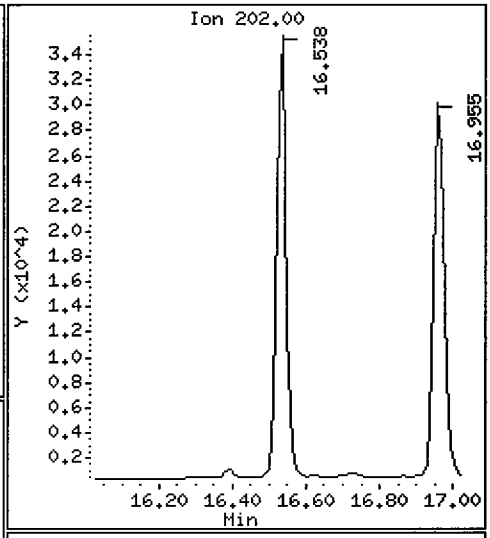
Sample Info: 1005129-20;2743

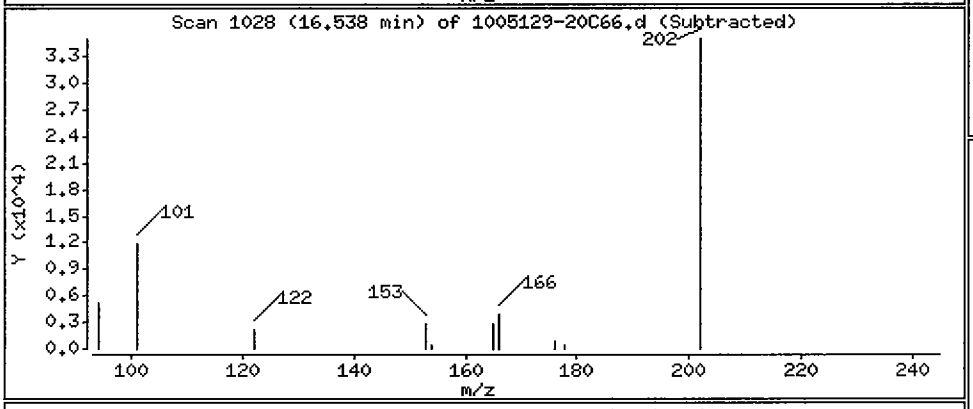
Volume Injected (uL): 2.0 Operator: 2743

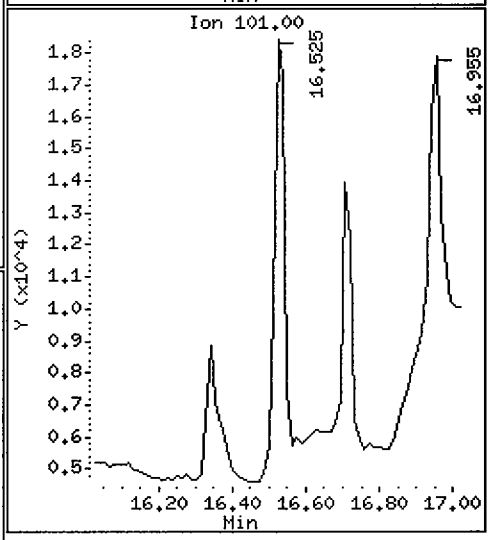
Column phase: Rtx-5MS Column diameter: 0.32

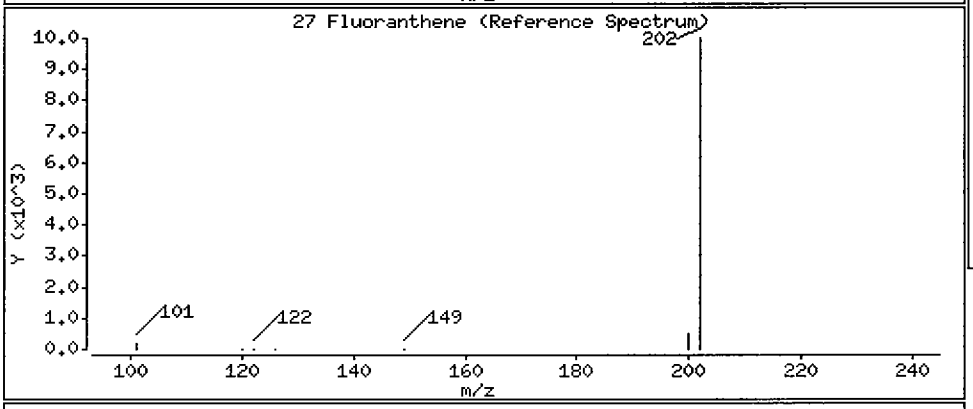
27 Fluoranthene Concentration: 6.0 ug/Kg

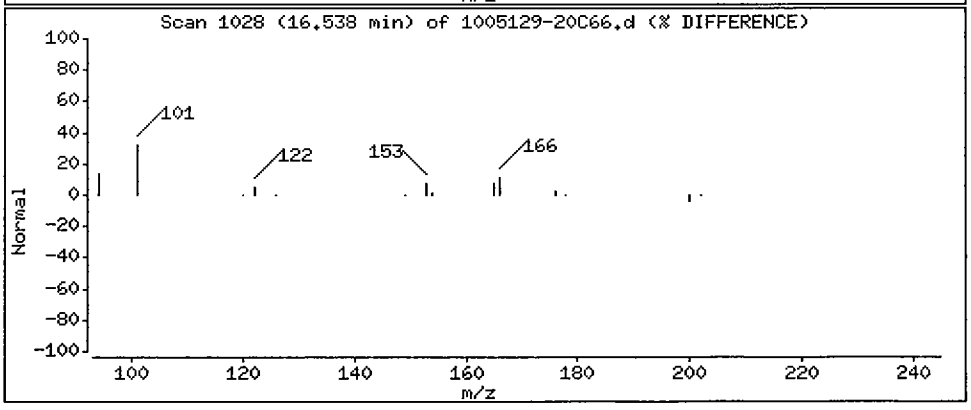












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

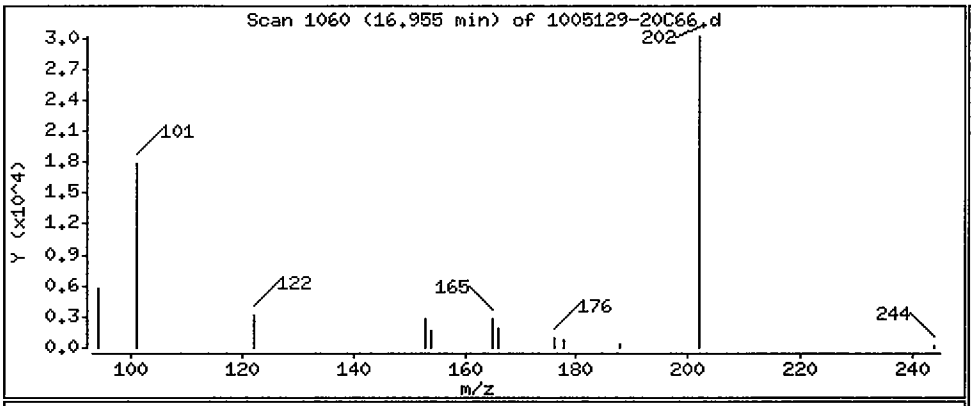
Client ID: SS78-0-1 Instrument: 5972hp66.i

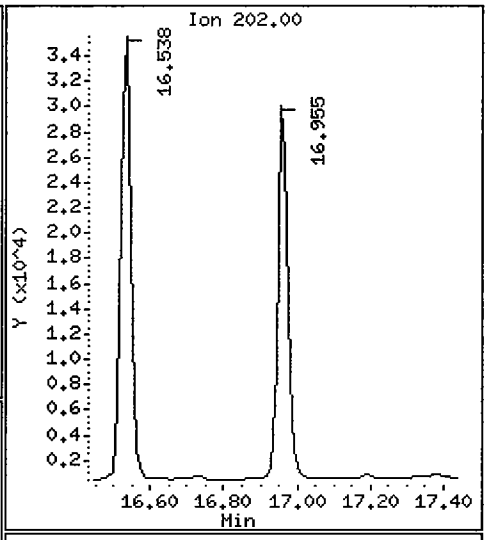
Sample Info: 1005129-20:2743

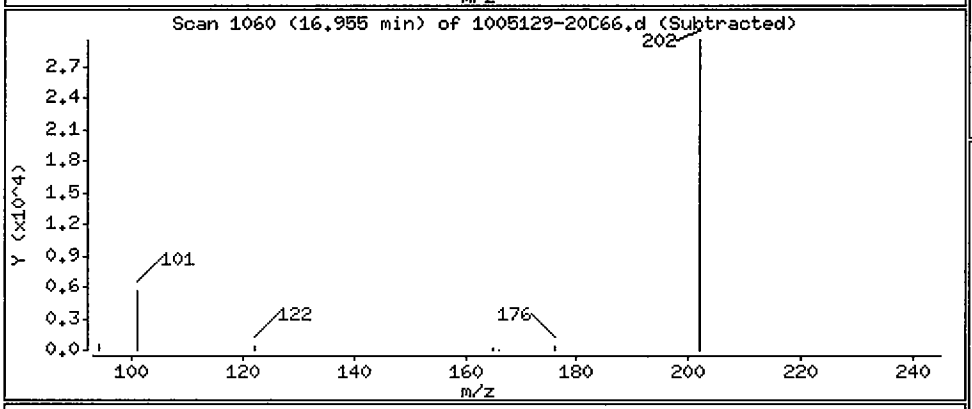
Volume Injected (uL): 2.0 Operator: 2743

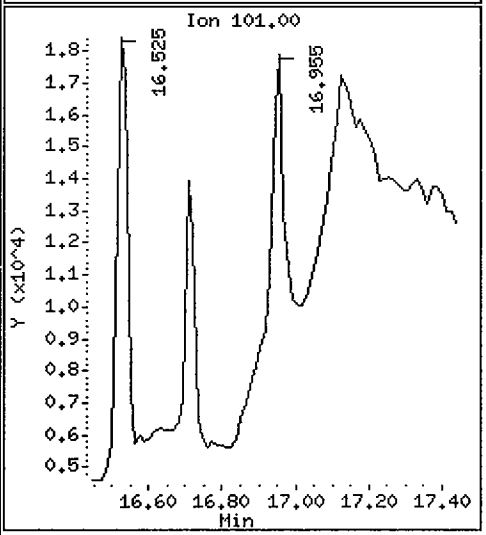
Column phase: Rtx-5MS Column diameter: 0.32

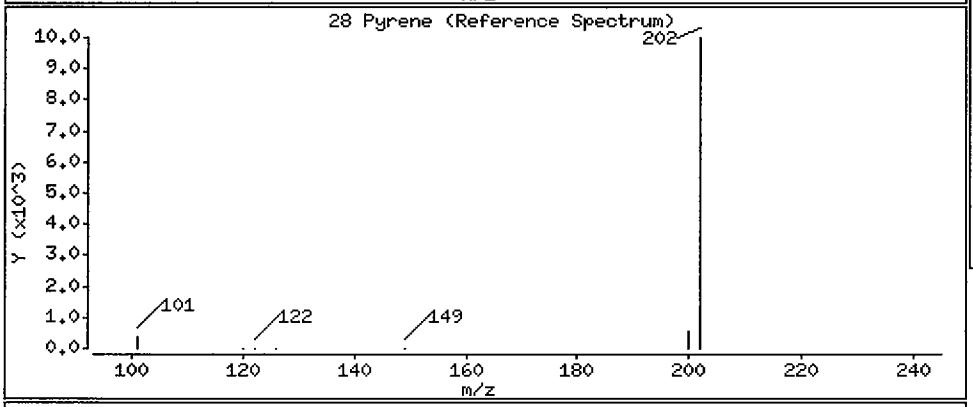
28 Pyrene Concentration: 4.9 ug/Kg

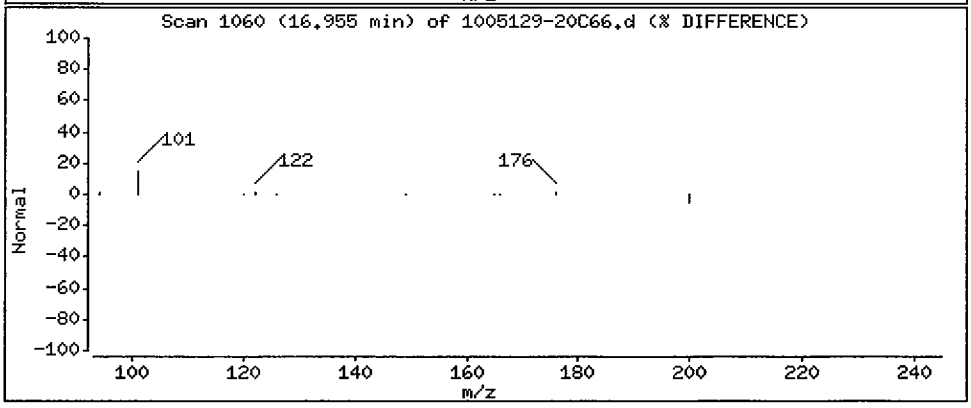












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

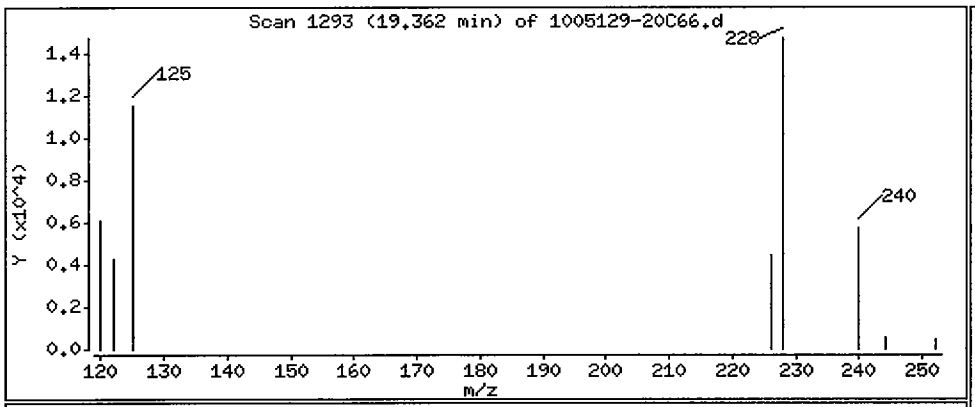
Client ID: SS78-0-1 Instrument: 5972hp66.i

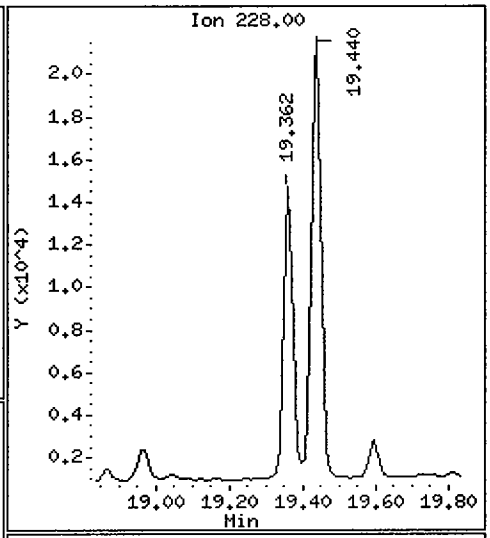
Sample Info: 1005129-20:2743

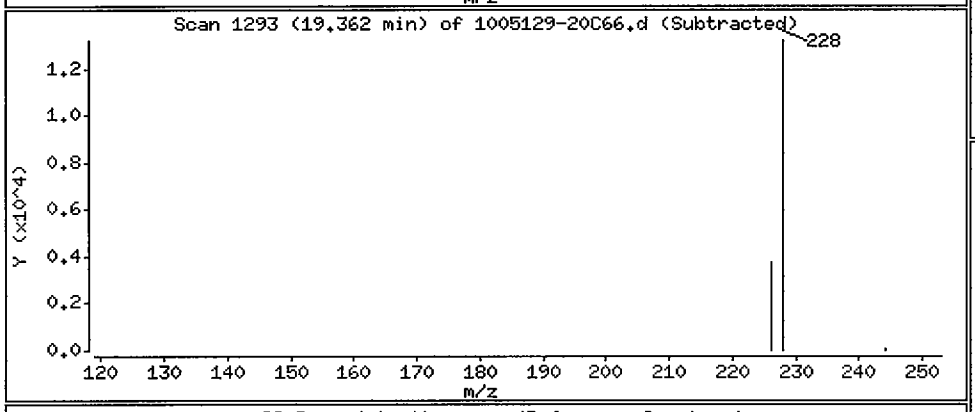
Volume Injected (uL): 2.0 Operator: 2743

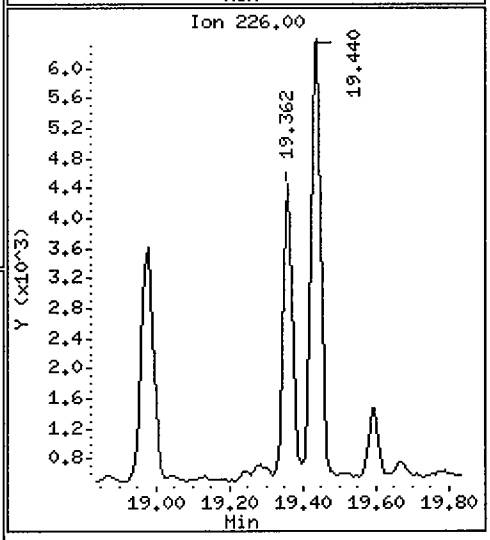
Column phase: Rtx-5MS Column diameter: 0.32

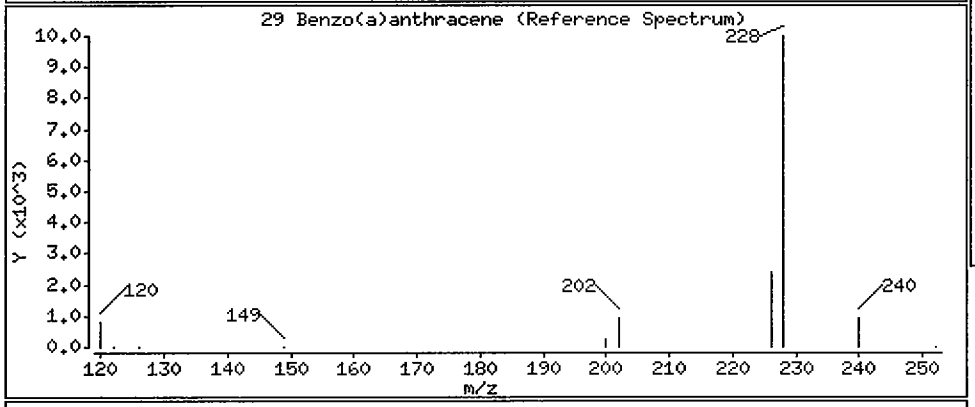
29 Benzo(a)anthracene Concentration: 2.7 ug/Kg

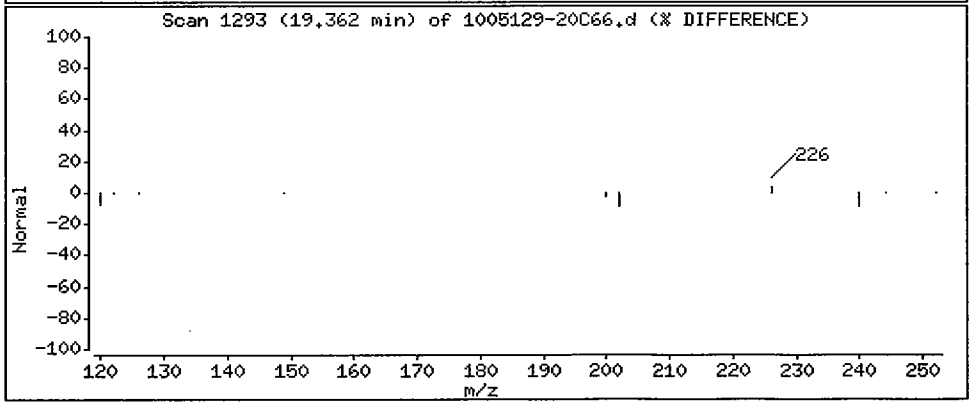












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

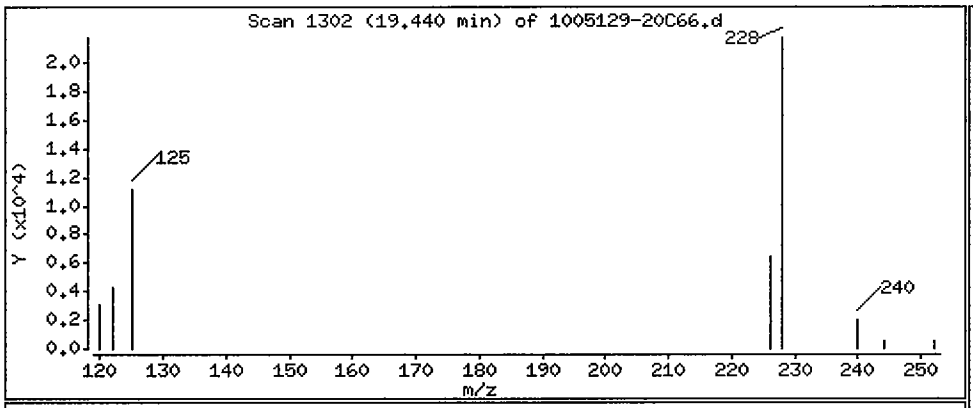
Client ID: SS78-0-1 Instrument: 5972hp66.i

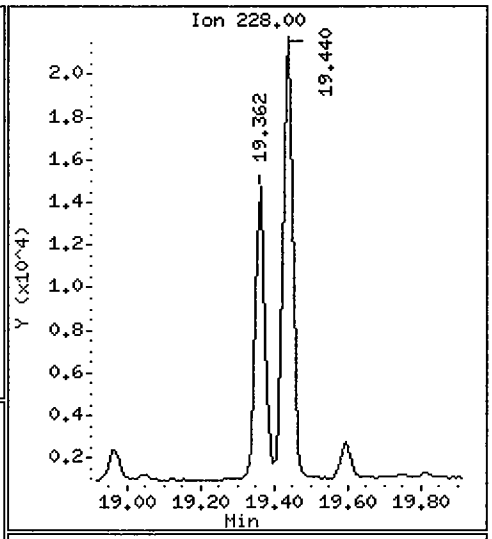
Sample Info: 1005129-20:2743

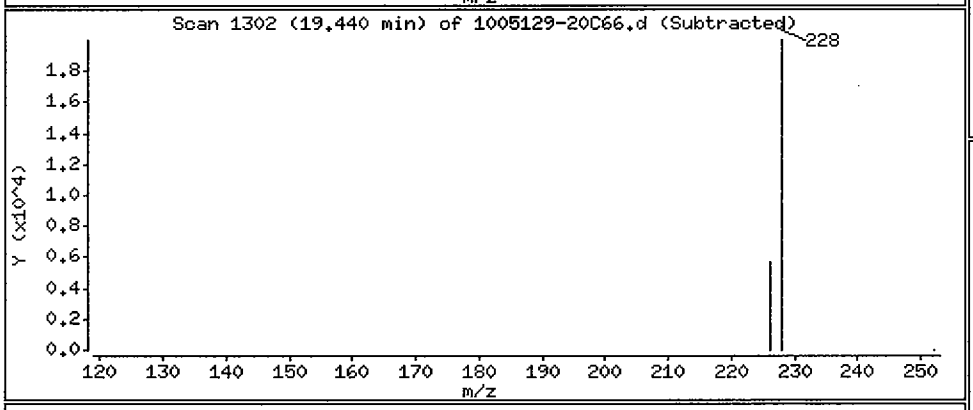
Volume Injected (uL): 2.0 Operator: 2743

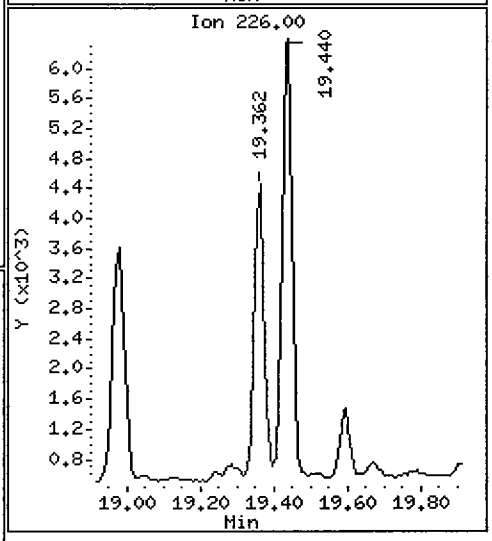
Column phase: Rtx-5MS Column diameter: 0.32

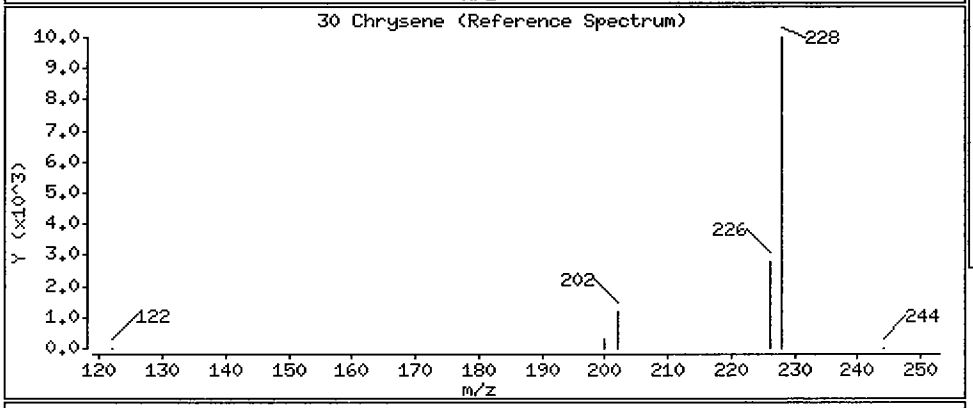
30 Chrysene Concentration: 3.9 ug/Kg

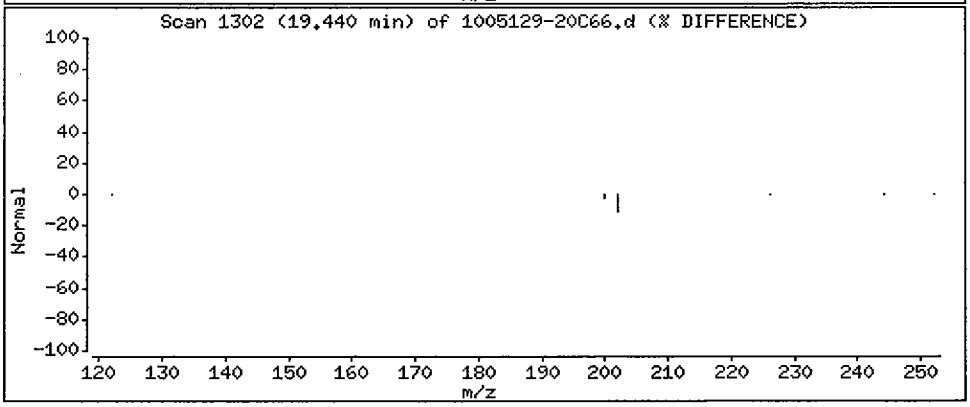












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

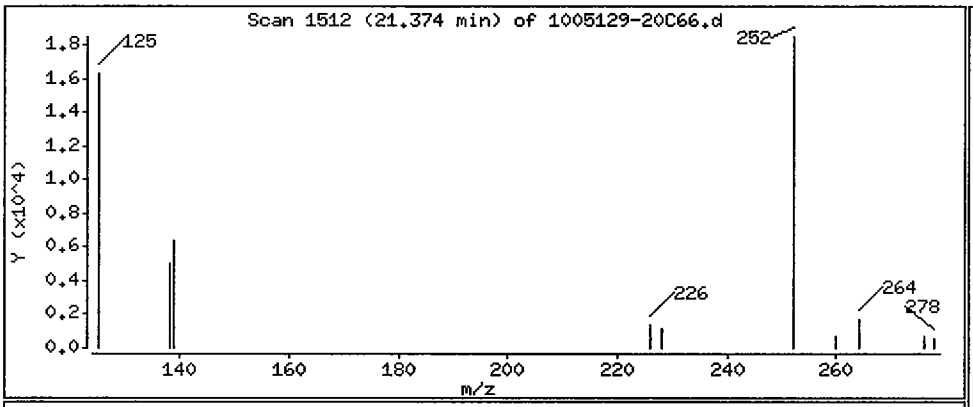
Client ID: SS78-0-1 Instrument: 5972hp66.i

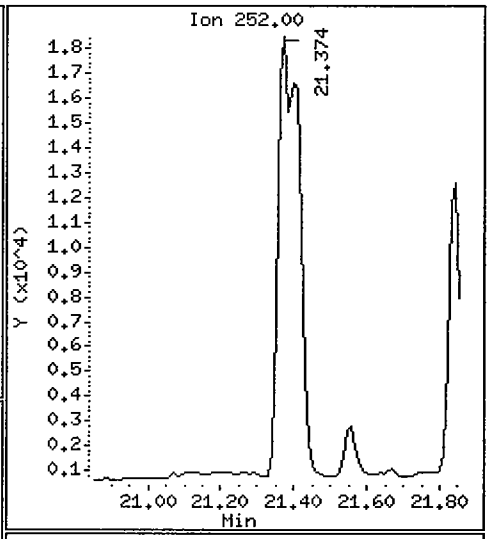
Sample Info: 1005129-20:2743

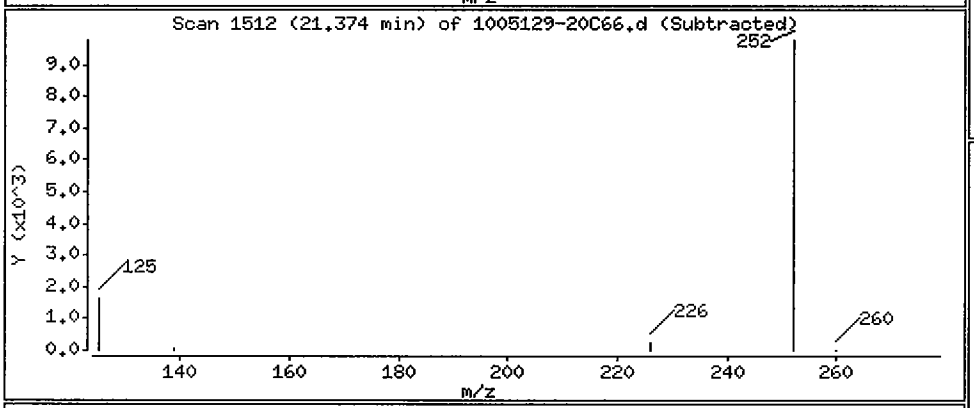
Volume Injected (uL): 2.0 Operator: 2743

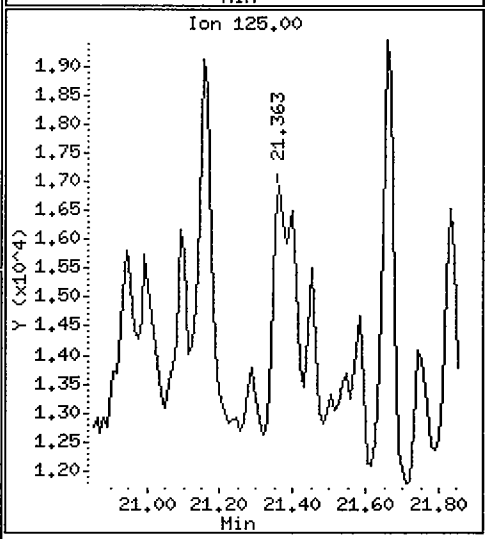
Column phase: Rtx-5MS Column diameter: 0.32

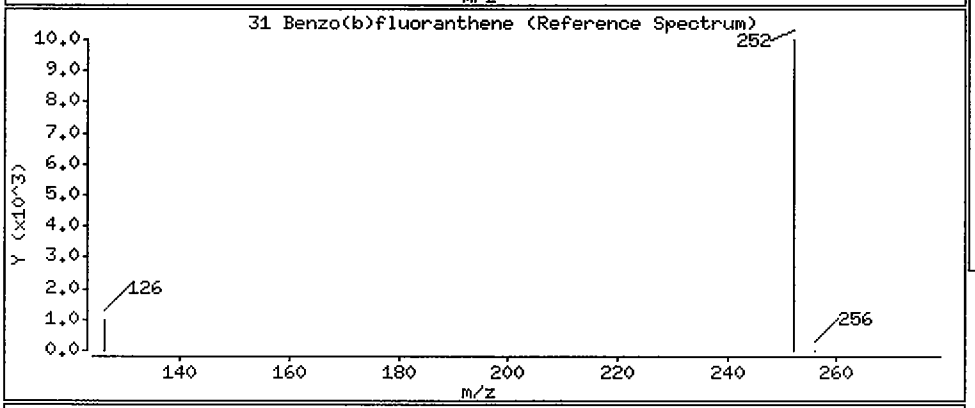
31 Benzo(b)fluoranthene Concentration: 4.2 ug/Kg

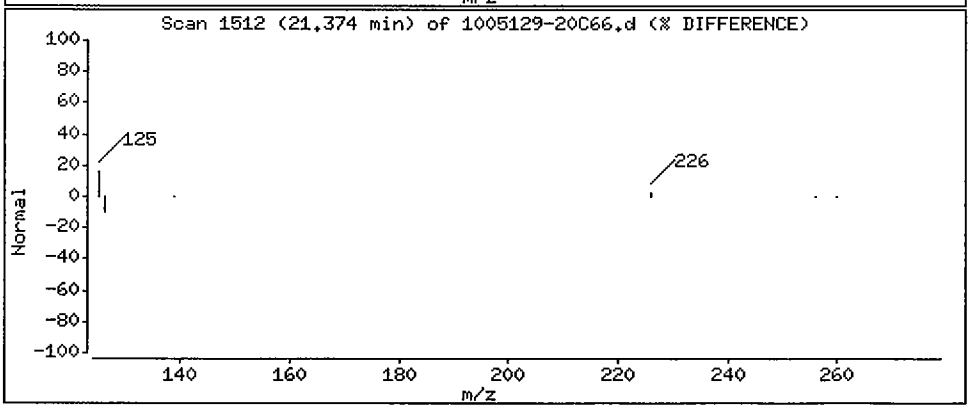












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

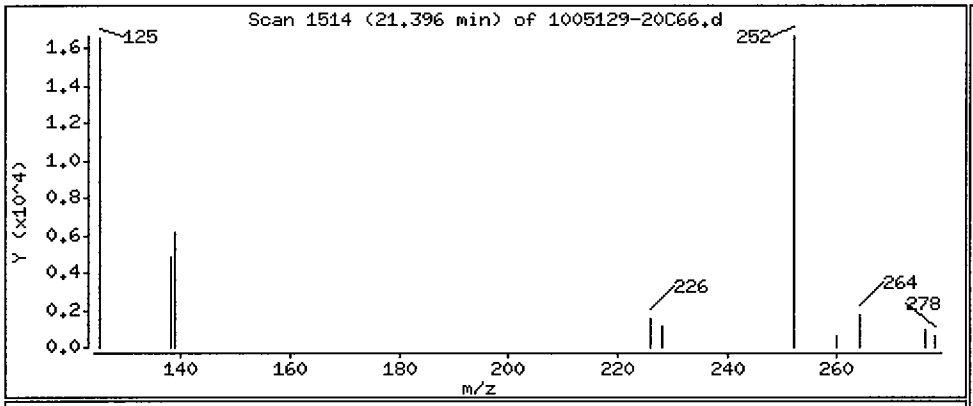
Client ID: SS78-0-1 Instrument: 5972hp66.i

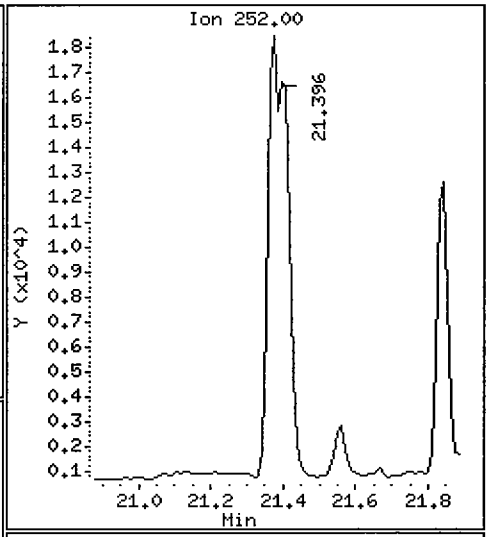
Sample Info: 1005129-20:2743

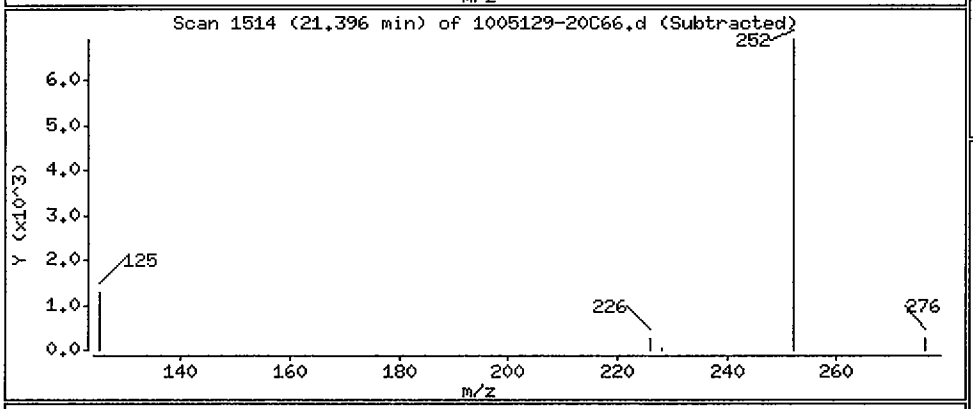
Volume Injected (uL): 2.0 Operator: 2743

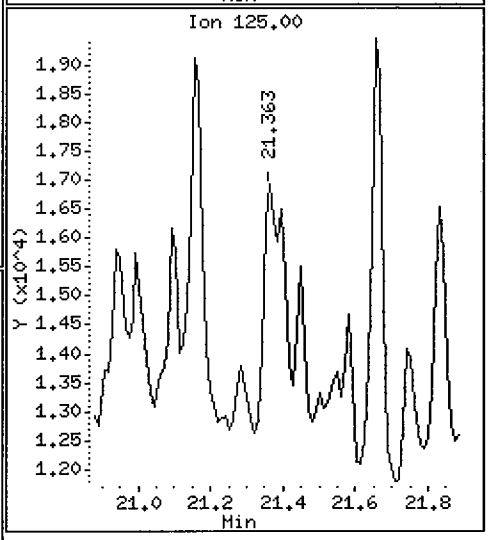
Column phase: Rtx-5MS Column diameter: 0.32

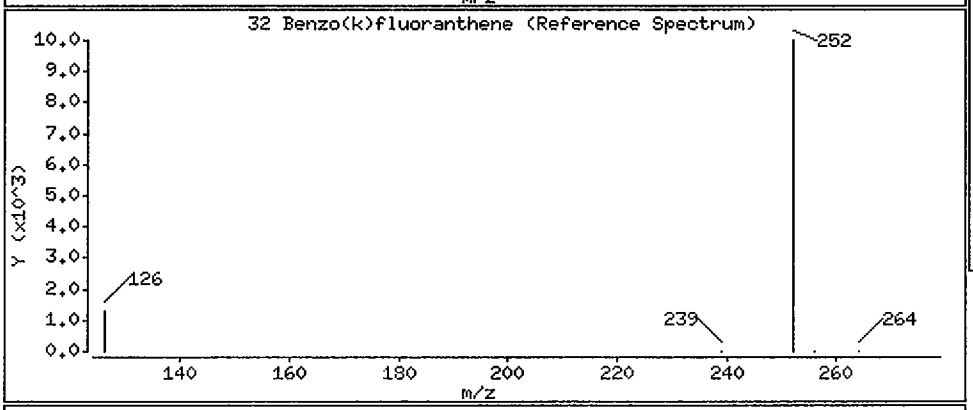
32 Benzo(k)fluoranthene Concentration: 4.4 ug/Kg

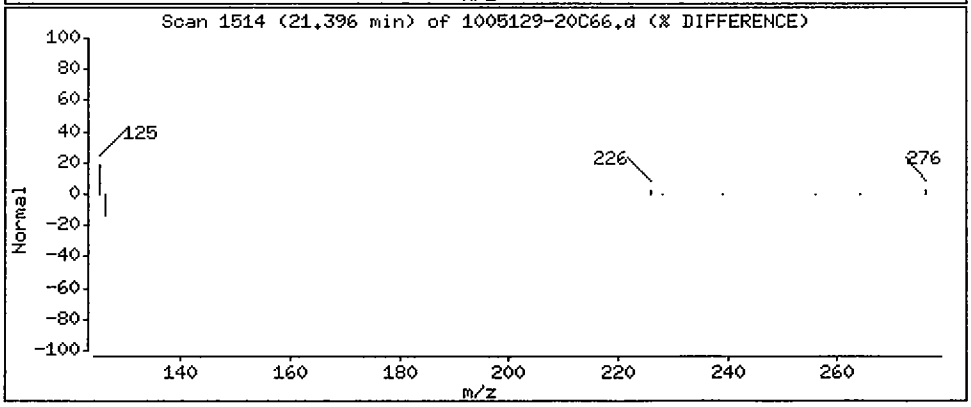












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

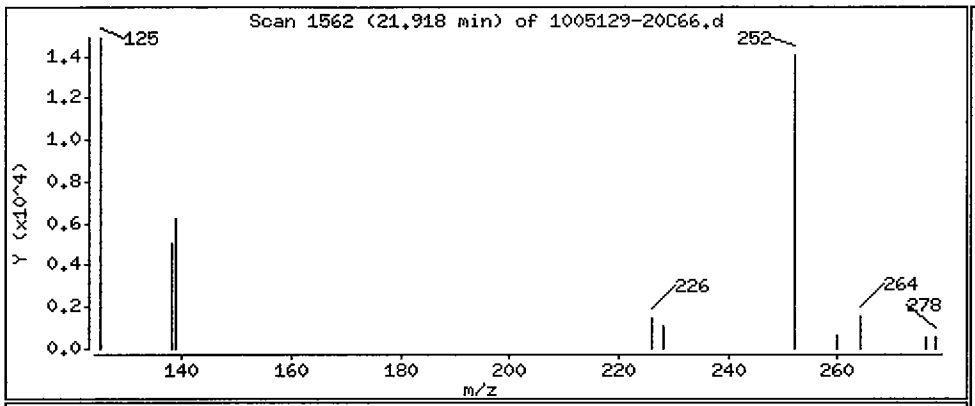
Client ID: SS78-0-1 Instrument: 5972hp66.i

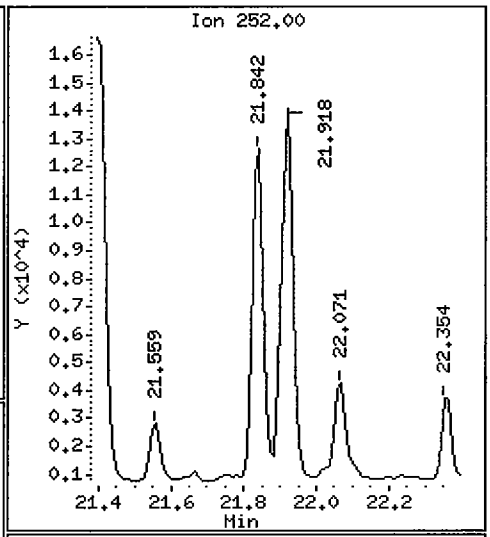
Sample Info: 1005129-20:2743

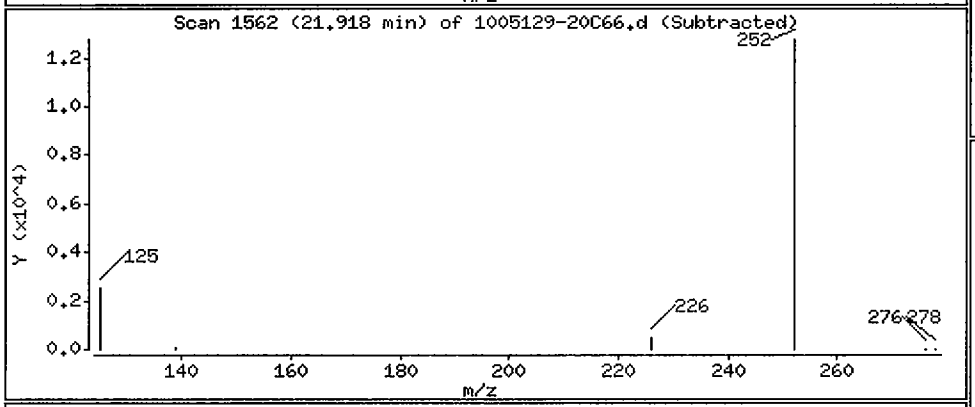
Volume Injected (uL): 2.0 Operator: 2743

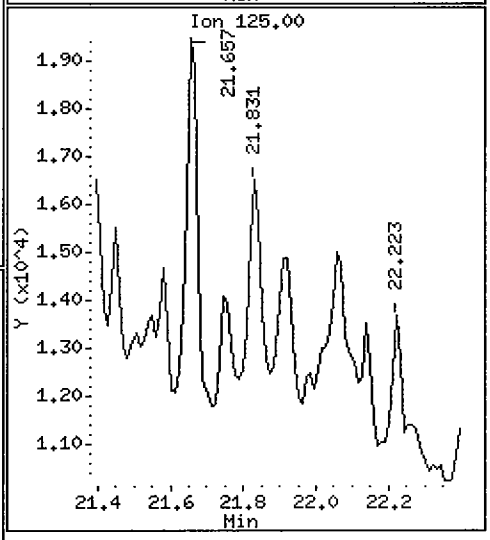
Column phase: Rtx-5MS Column diameter: 0.32

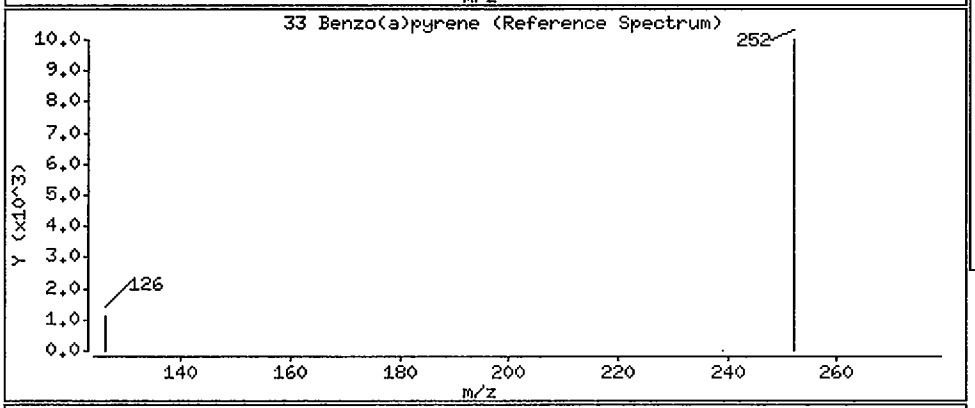
33 Benzo(a)pyrene Concentration: 3.6 ug/Kg

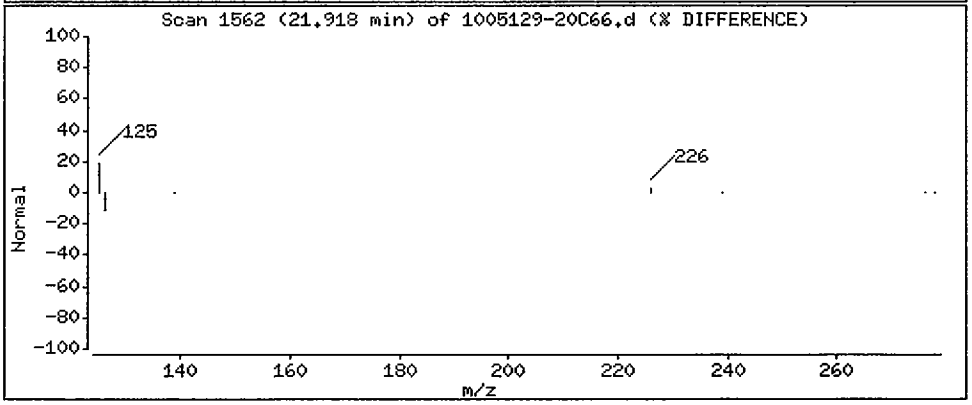












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

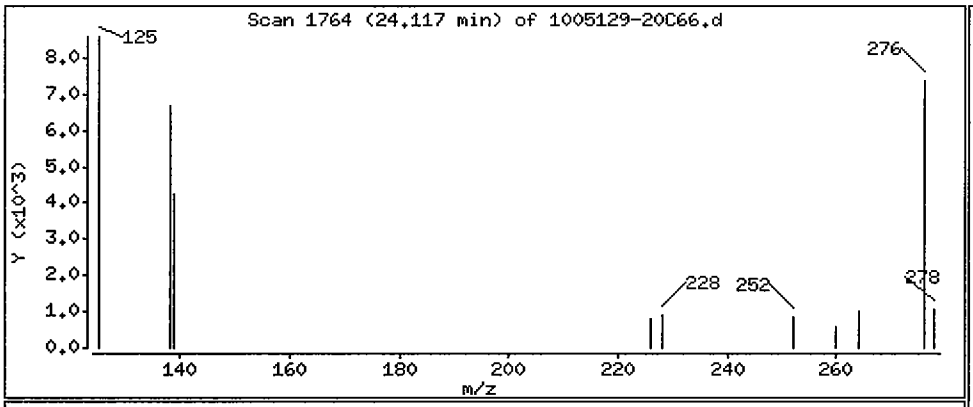
Client ID: SS78-0-1 Instrument: 5972hp66.i

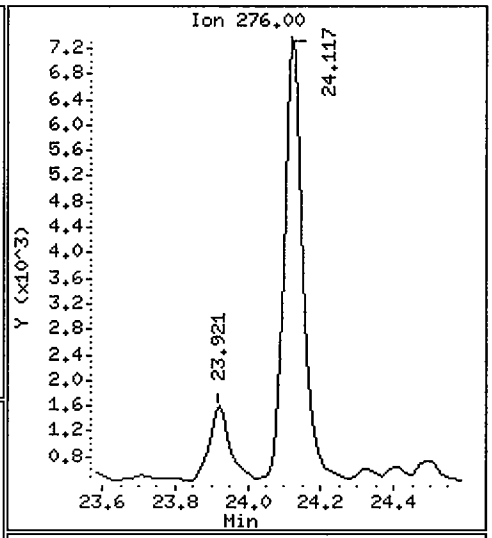
Sample Info: 1005129-20:2743

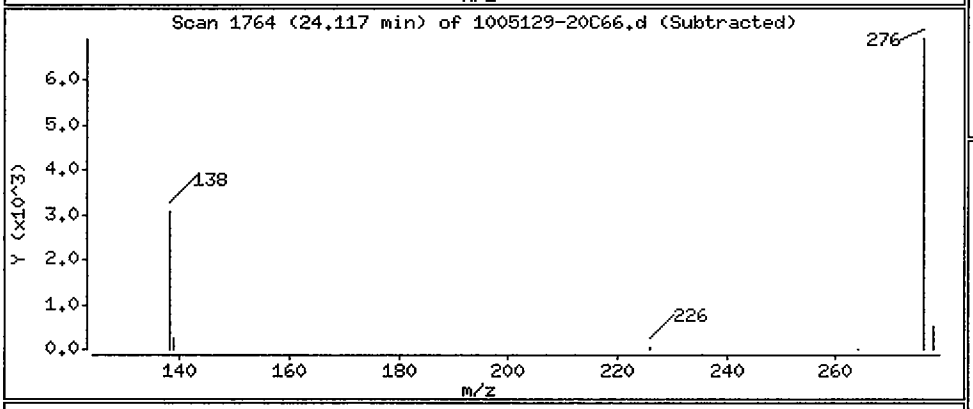
Volume Injected (uL): 2.0 Operator: 2743

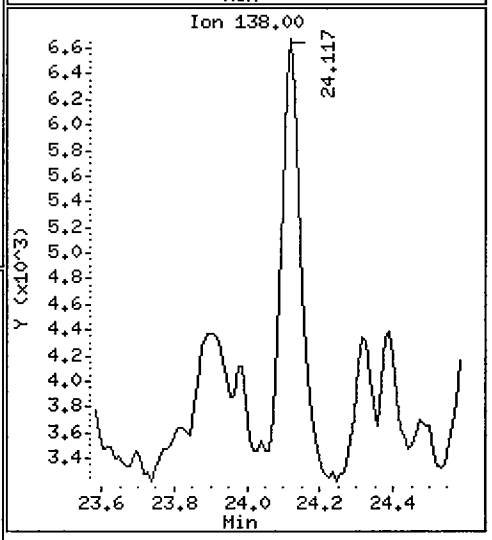
Column phase: Rtx-5MS Column diameter: 0.32

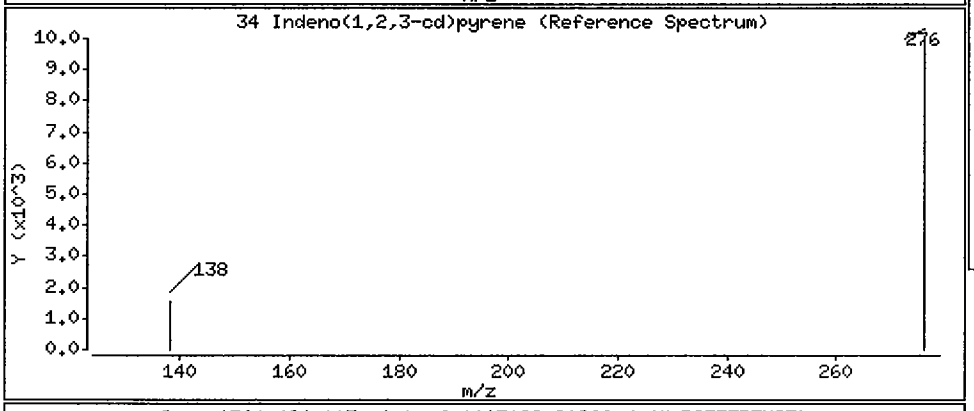
34 Indeno(1,2,3-cd)pyrene Concentration: 3.6 ug/Kg

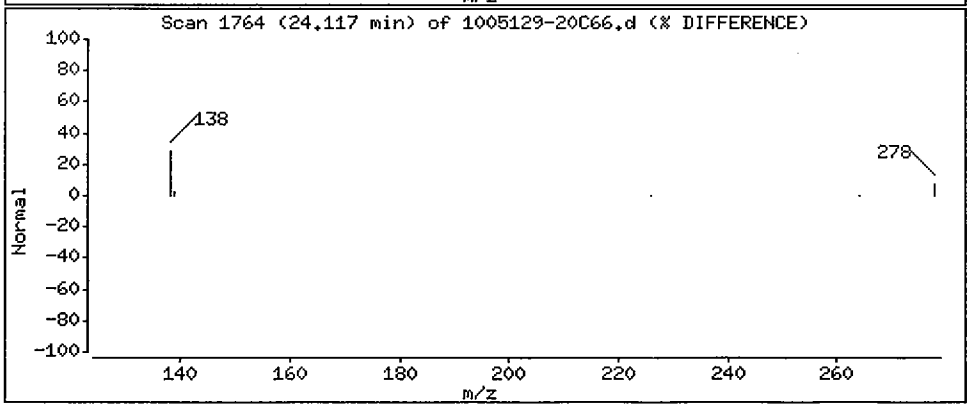












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

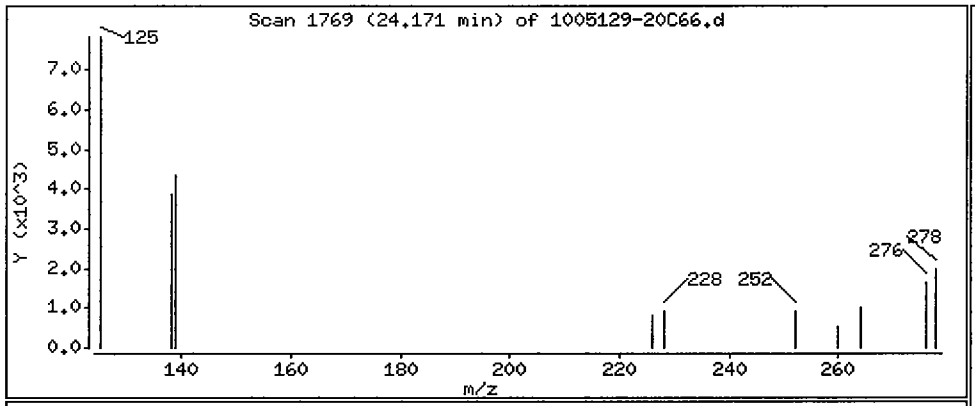
Client ID: SS78-0-1 Instrument: 5972hp66.i

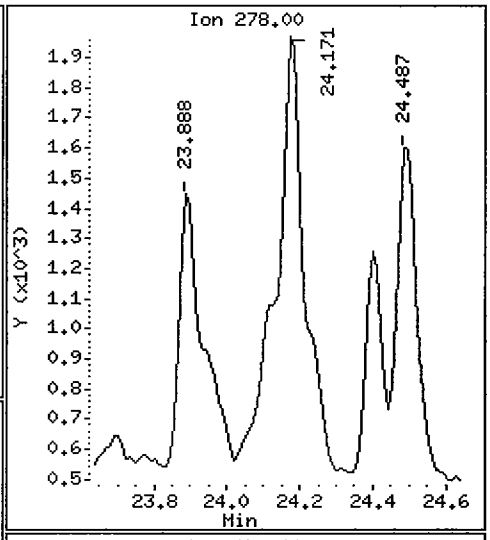
Sample Info: 1005129-20:2743

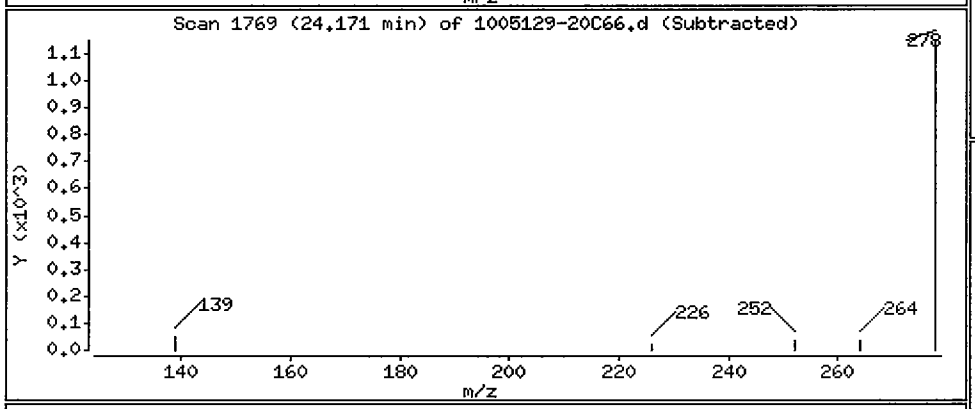
Volume Injected (uL): 2.0 Operator: 2743

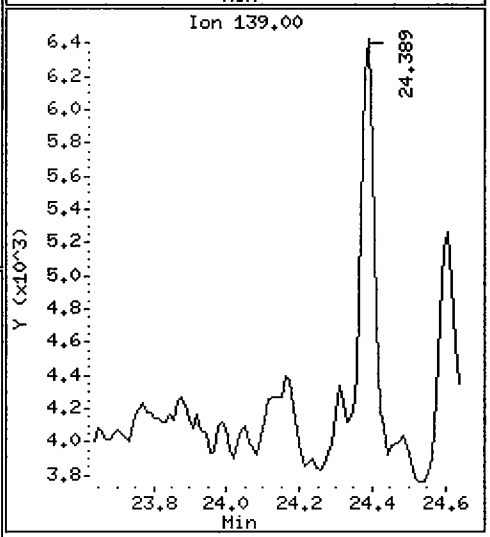
Column phase: Rtx-5MS Column diameter: 0.32

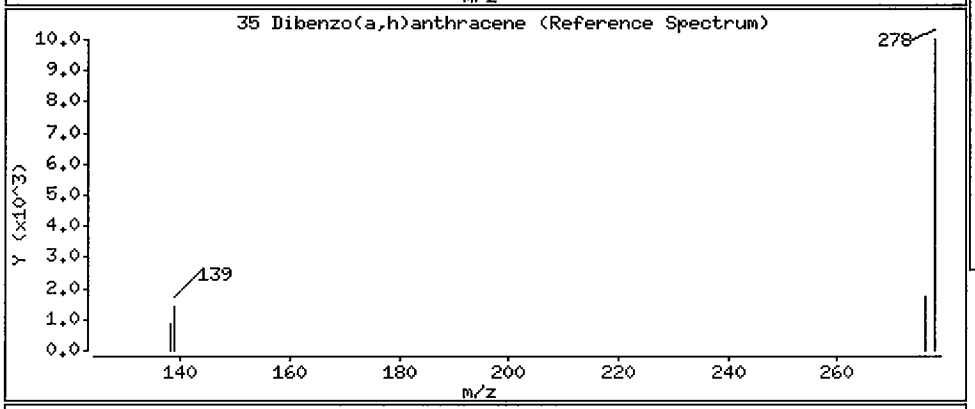
35 Dibenzo(a,h)anthracene Concentration: 1.00 ug/Kg

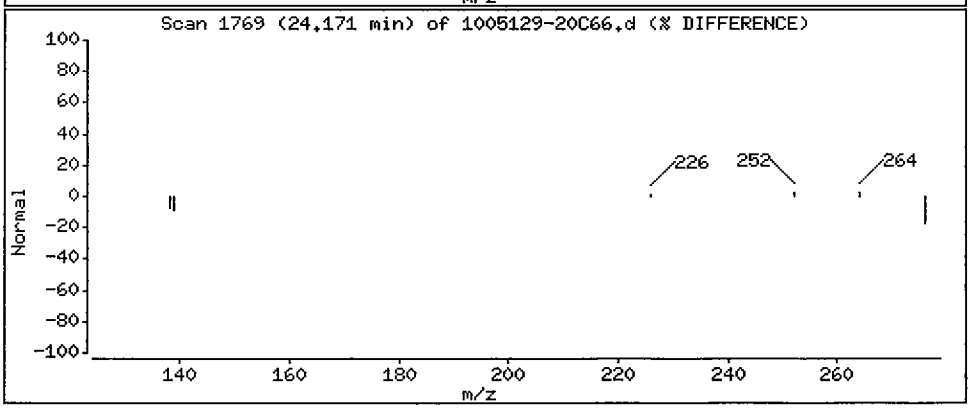












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-20C66.d

Date : 28-MAY-2010 14:10

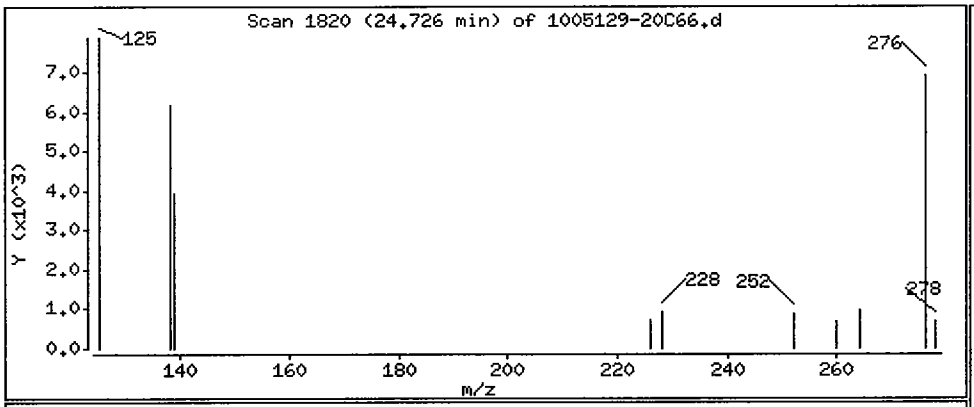
Client ID: SS78-0-1 Instrument: 5972hp66.i

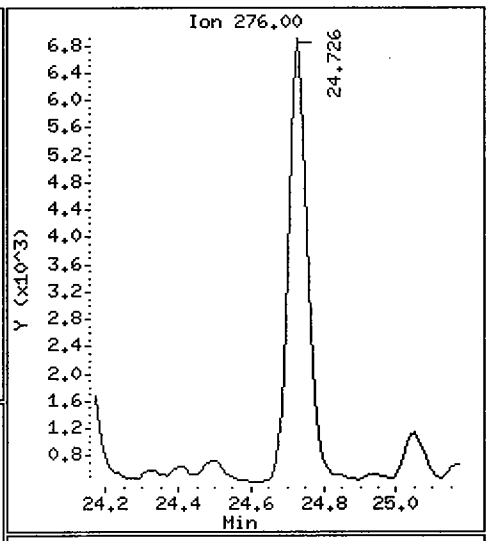
Sample Info: 1005129-20:2743

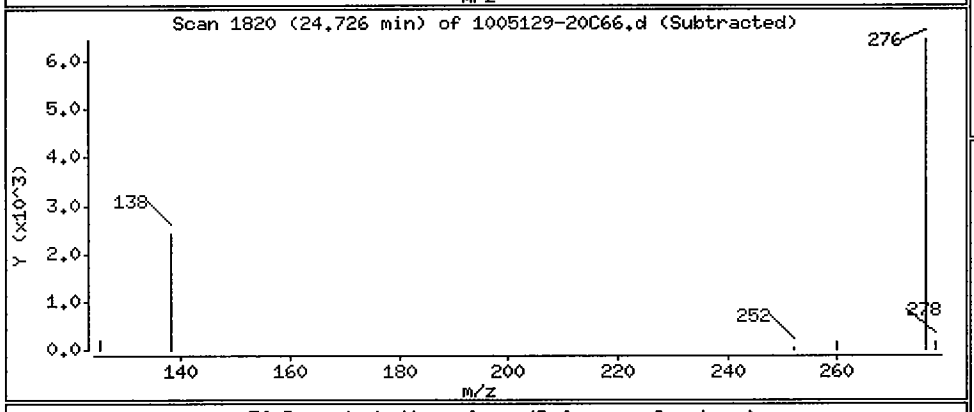
Volume Injected (uL): 2.0 Operator: 2743

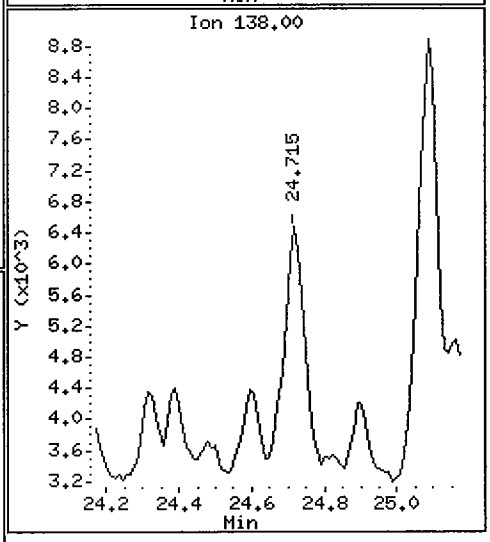
Column phase: Rtx-5MS Column diameter: 0.32

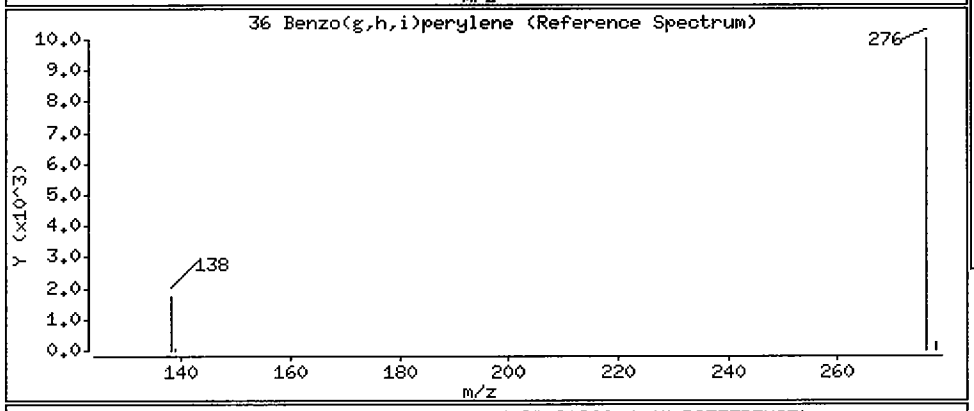
36 Benzo(g,h,i)perylene Concentration: 3.2 ug/Kg

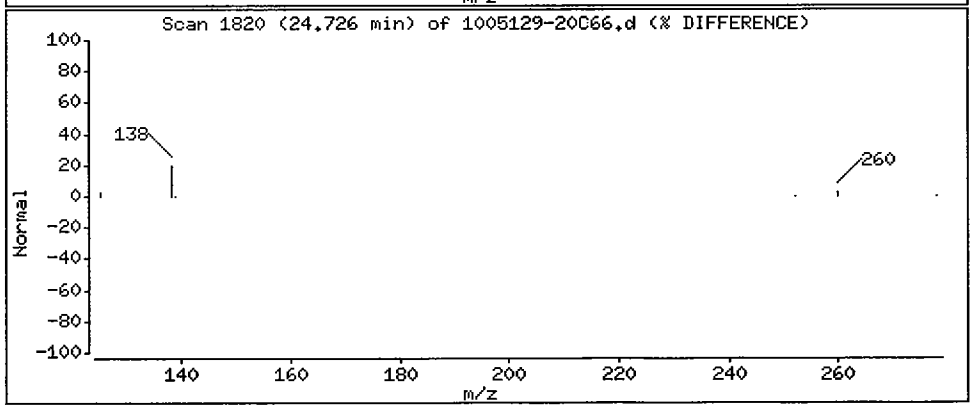












1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS80-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005129-07
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005129-07JC66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

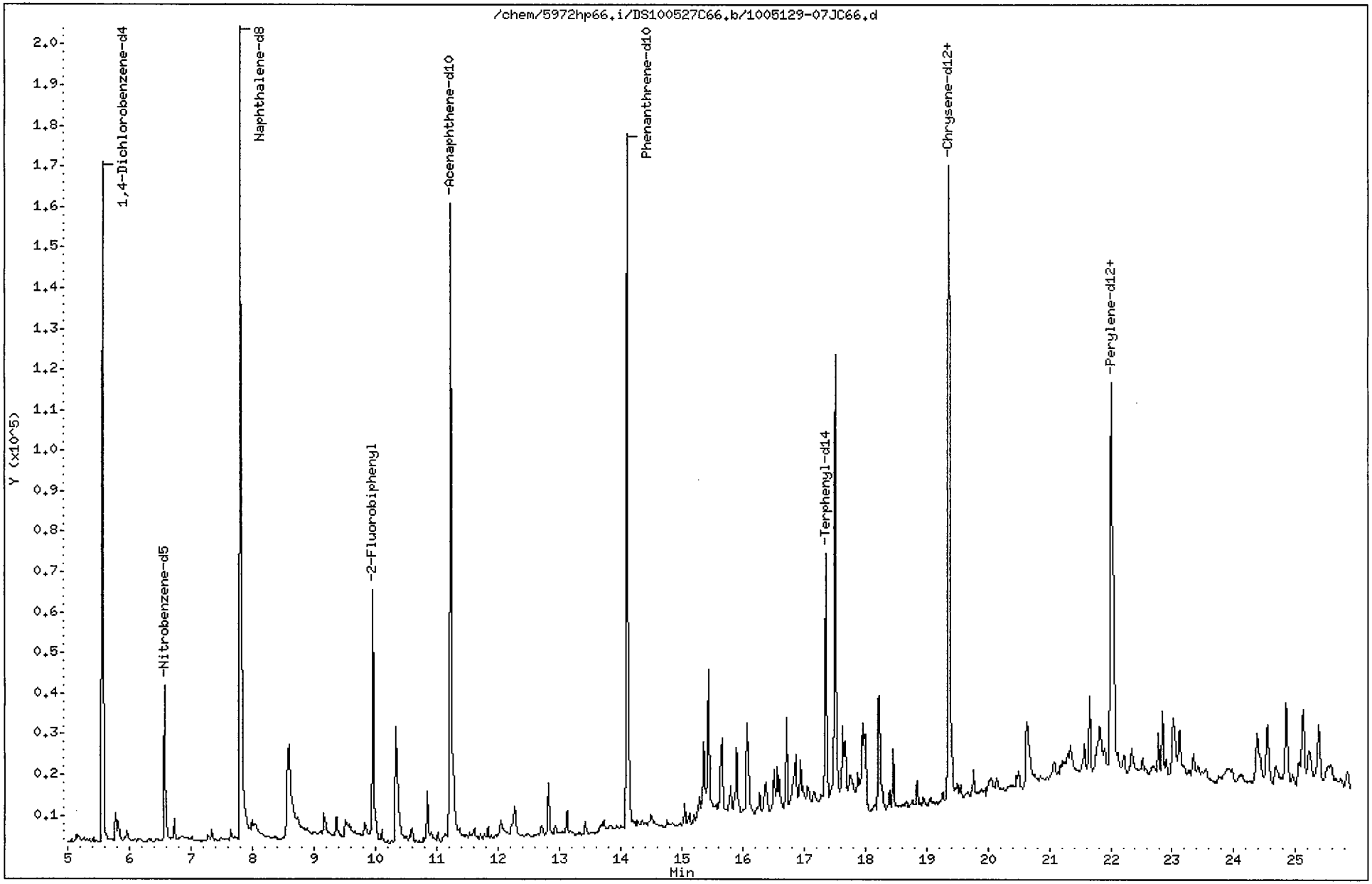
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	2.0	J
129-00-0	Pyrene	0.71	10	1.9	J
56-55-3	Benzo(a)anthracene	0.71	10	0.79	J
218-01-9	Chrysene	0.79	10	0.98	J
205-99-2	Benzo(b)fluoranthene	0.71	10	1.4	J
207-08-9	Benzo(k)fluoranthene	0.54	10	0.96	J
50-32-8	Benzo(a)pyrene	0.48	10	0.81	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	1.0	J
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	0.66	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d
Date : 28-MAY-2010 06:47
Client ID: SS80-0-1
Sample Info: 1005129-07:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d
Report Date: 02-Jun-2010 09:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d
Lab Smp Id: 1005129-07 Client Smp ID: SS80-0-1
Inj Date : 28-MAY-2010 06:47
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-07:2743
Misc Info : SS80-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	20.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.571	5.560	(1.000)	91946	2.00000	
* 2	Naphthalene-d8	136	7.813	7.815	(1.000)	295472	2.00000	
* 3	Acenaphthene-d10	164	11.231	11.231	(1.000)	142435	2.00000	
* 4	Phenanthrene-d10	188	14.114	14.126	(1.000)	263547	2.00000	
* 5	Chrysene-d12	240	19.371	19.371	(1.000)	231011	2.00000	
* 6	Perylene-d12	264	22.005	22.004	(1.000)	159665	2.00000	
$ 9	Nitrobenzene-d5	82	6.574	6.576	(0.841)	42868	0.65200	14
$ 10	2-Fluorobiphenyl	172	9.963	9.978	(0.887)	95299	0.64117	13
$ 12	Terphenyl-d14	244	17.361	17.372	(0.896)	77997	0.92924	19
13	Naphthalene	128	Compound Not Detected.					
15	2-Methylnaphthalene	141	Compound Not Detected.					
17	Acenaphthylene	152	Compound Not Detected.					
18	Acenaphthene	154	Compound Not Detected.					

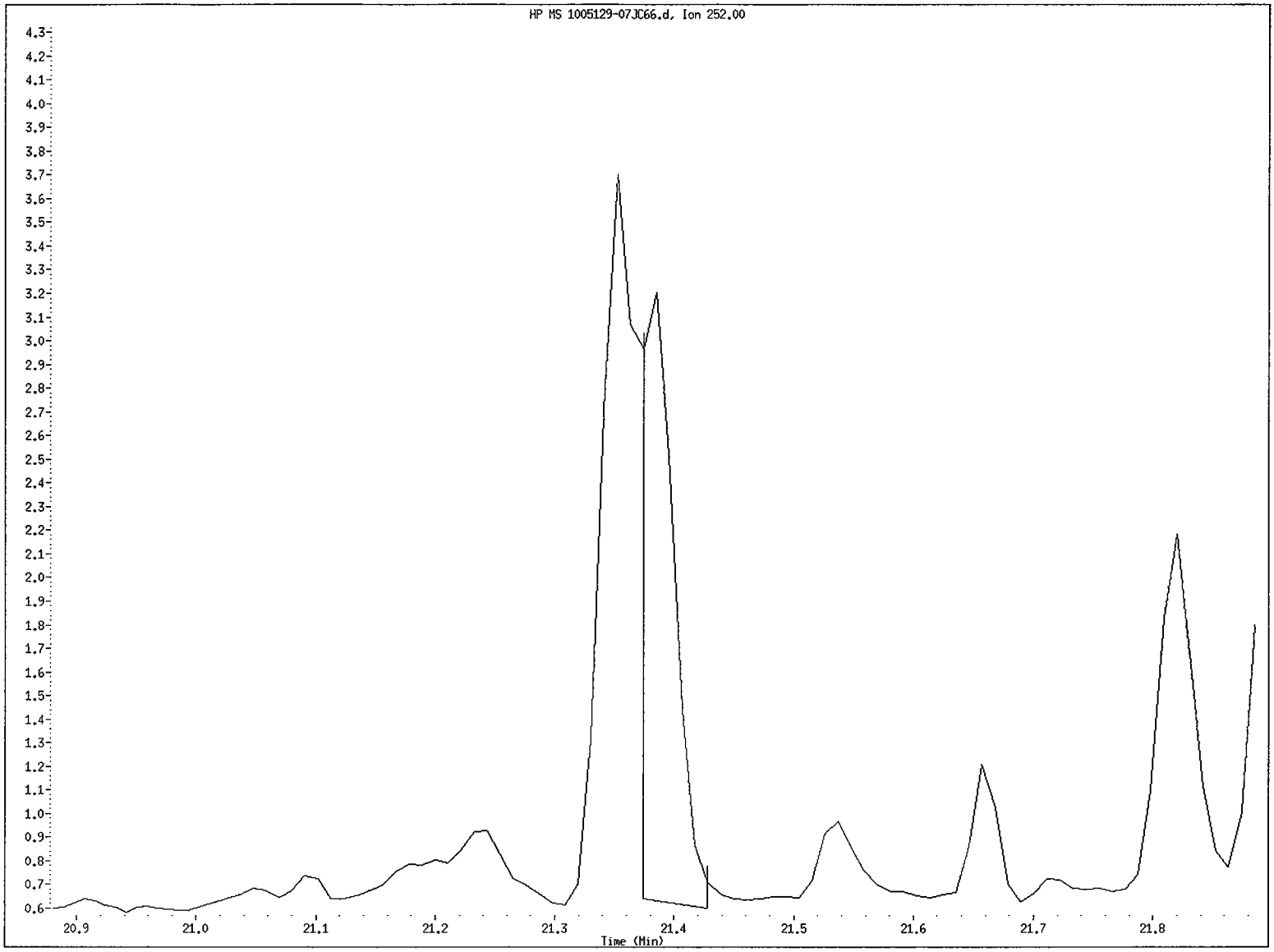
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d
Report Date: 02-Jun-2010 09:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	16.513	16.525	(0.852)	14374	0.09384	2.0(a)
28 Pyrene	202	16.943	16.942	(0.875)	15046	0.09019	1.9(a)
29 Benzo(a)anthracene	228	19.336	19.336	(0.998)	4754	0.03786	0.79(a)
30 Chrysene	228	19.414	19.414	(1.002)	6395	0.04702	0.98(a)
31 Benzo(b)fluoranthene	252	21.352	21.351	(0.970)	7101	0.06744	1.4(a)
32 Benzo(k)fluoranthene	252	21.385	21.383	(0.972)	5216	0.04603	0.96(aM)
33 Benzo(a)pyrene	252	21.896	21.895	(0.995)	3696	0.03895	0.81(a)
34 Indeno(1,2,3-cd)pyrene	276	24.095	24.083	(1.095)	4187	0.05002	1.0(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.694	24.671	(1.122)	2941	0.03170	0.66(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

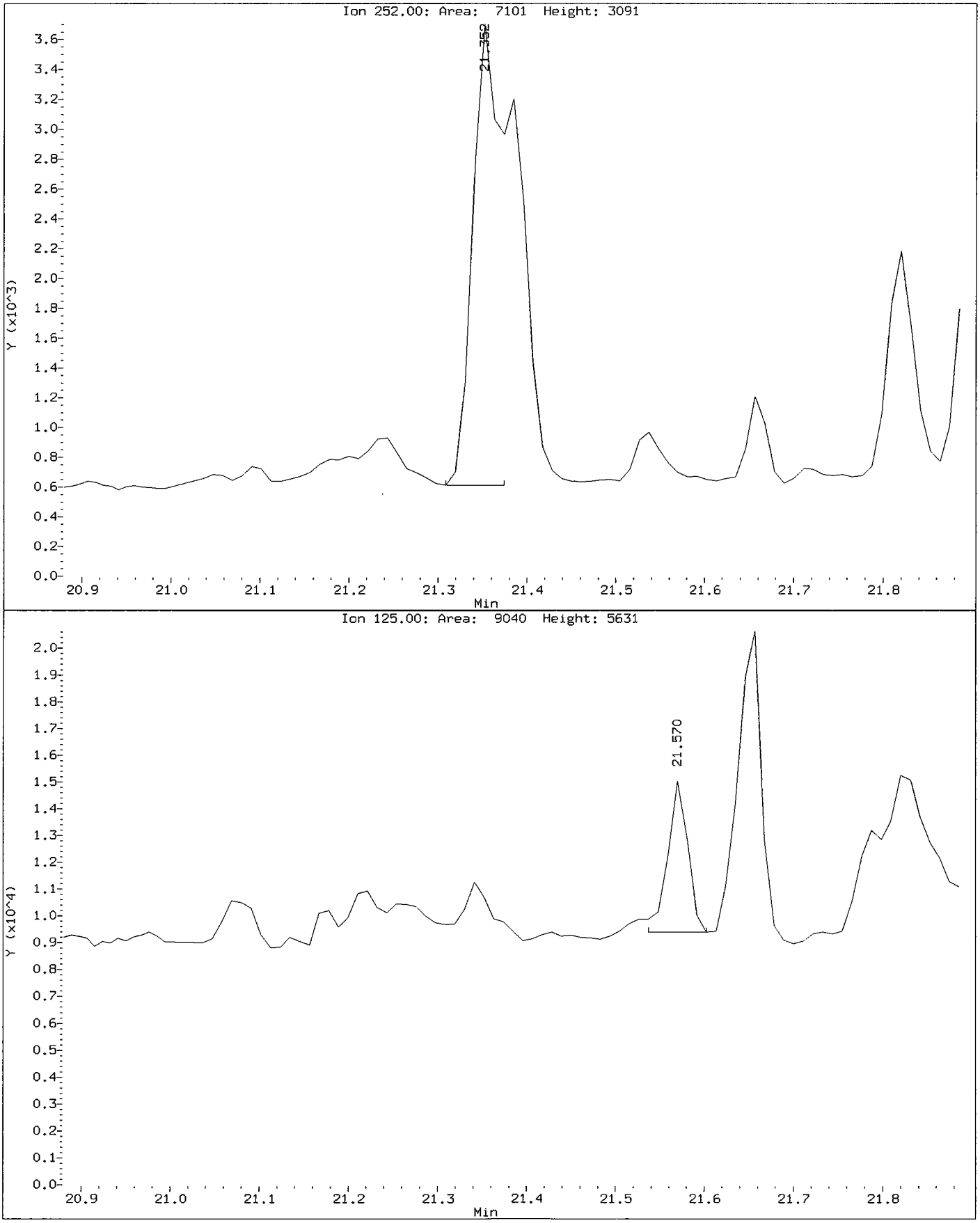
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 5216 Manually integrated



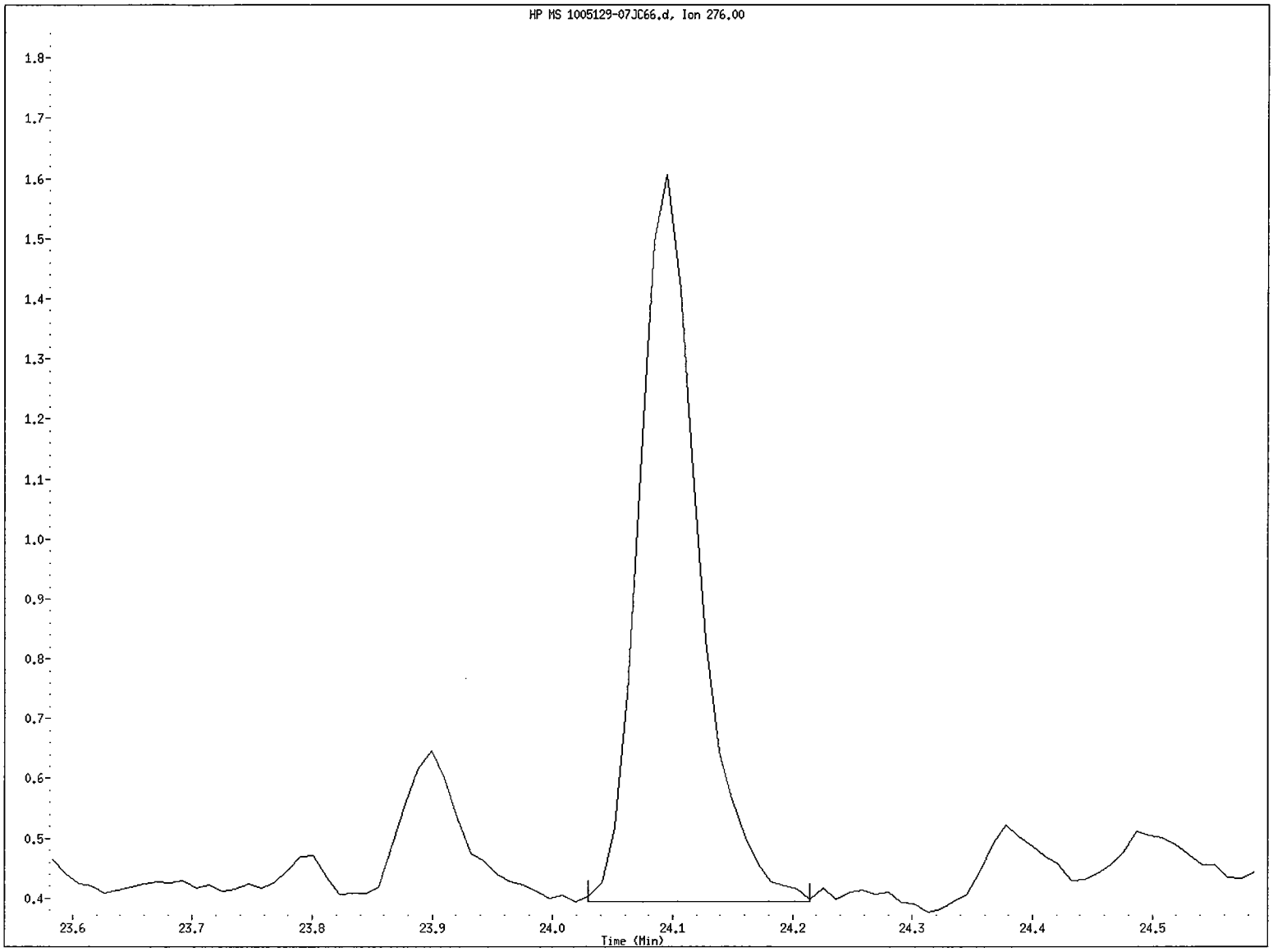
File name: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d
Client ID: SS80-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 06:47
Retention Time: 21.38
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d
Injection Date: 28-MAY-2010 06:47
Instrument: 5972hp66.i
Client Sample ID: SS80-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



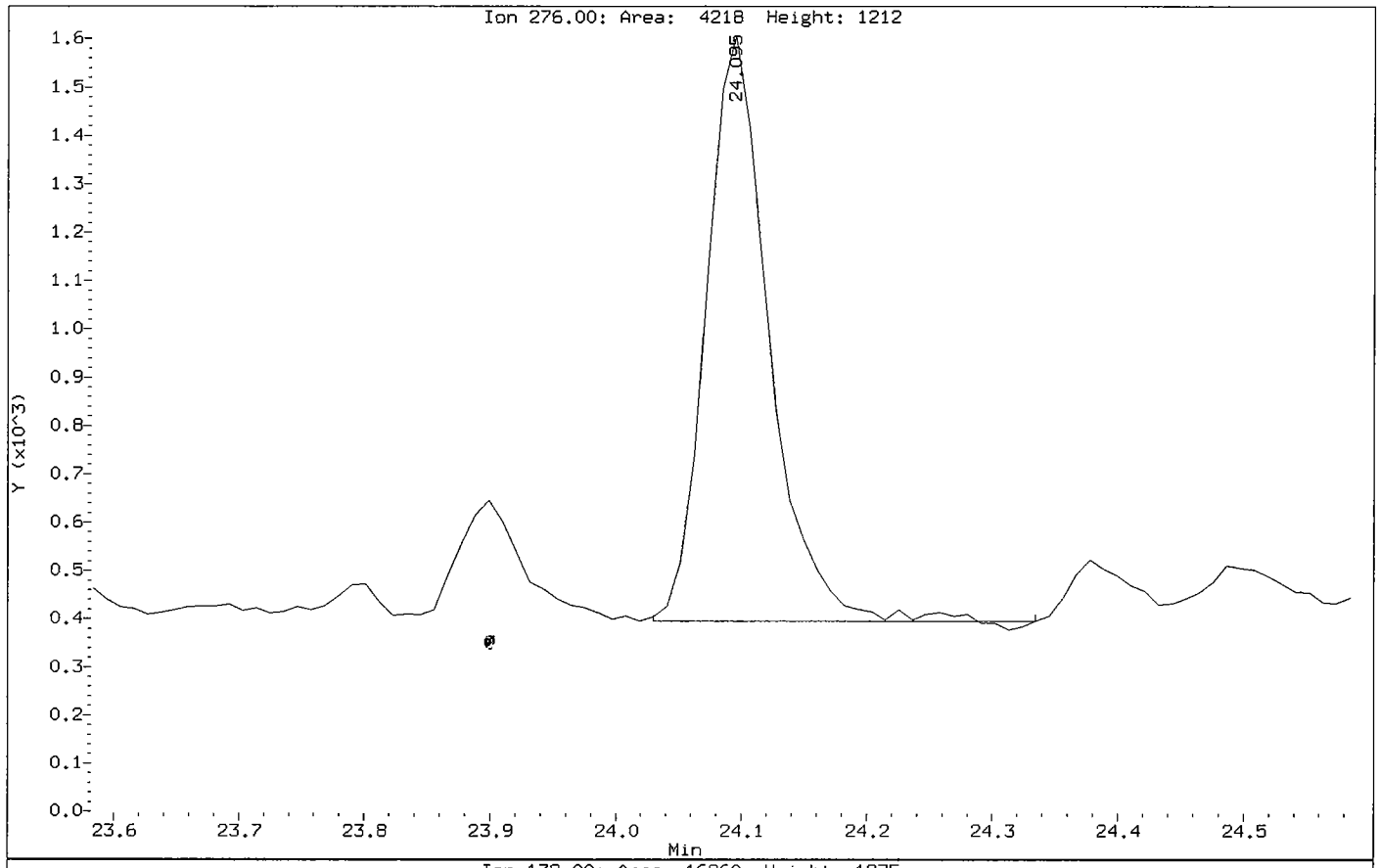
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 4187 Manually integrated

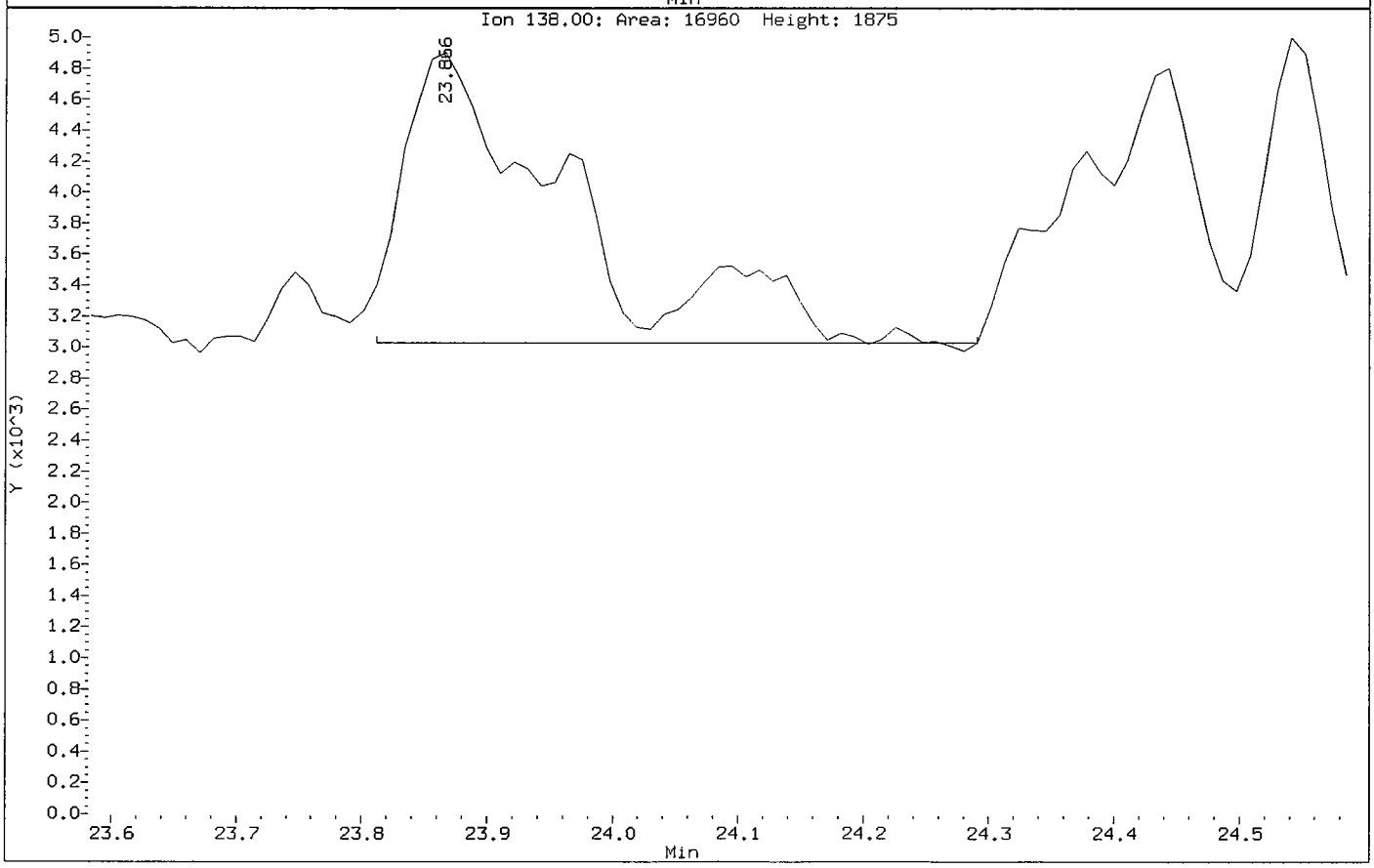


File name: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d
Client ID: SS80-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 06:47
Retention Time: 24.10
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d
Injection Date: 28-MAY-2010 06:47
Instrument: 5972hp66.i
Client Sample ID: SS80-0-1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d

Date : 28-MAY-2010 06:47

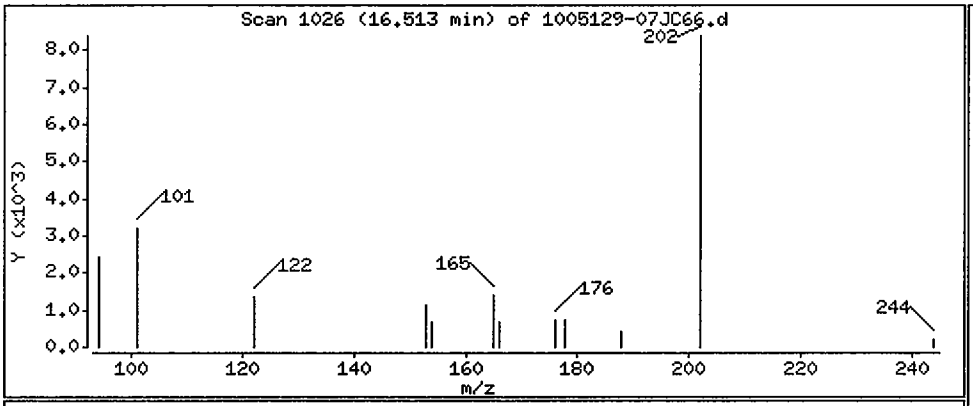
Client ID: SS80-0-1 Instrument: 5972hp66.i

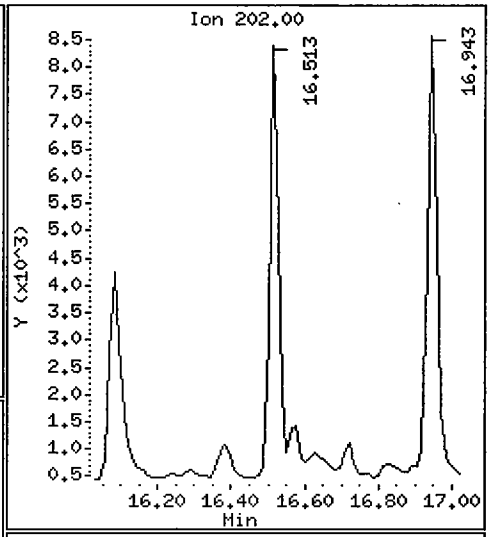
Sample Info: 1005129-07:2743

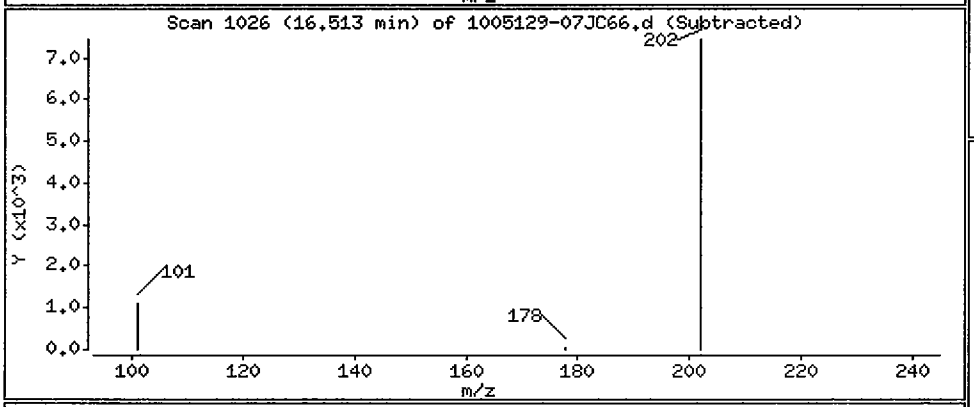
Volume Injected (uL): 2.0 Operator: 2743

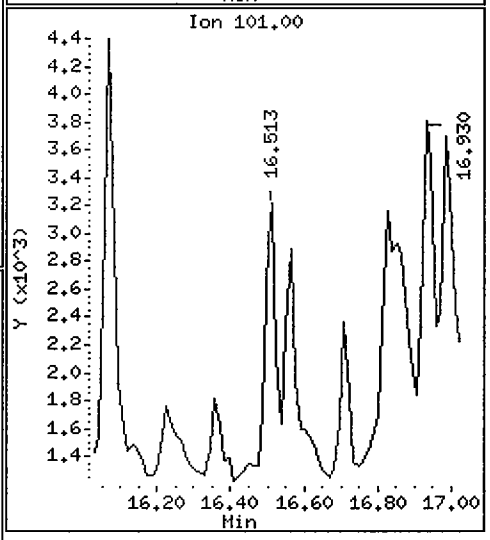
Column phase: Rtx-5MS Column diameter: 0.32

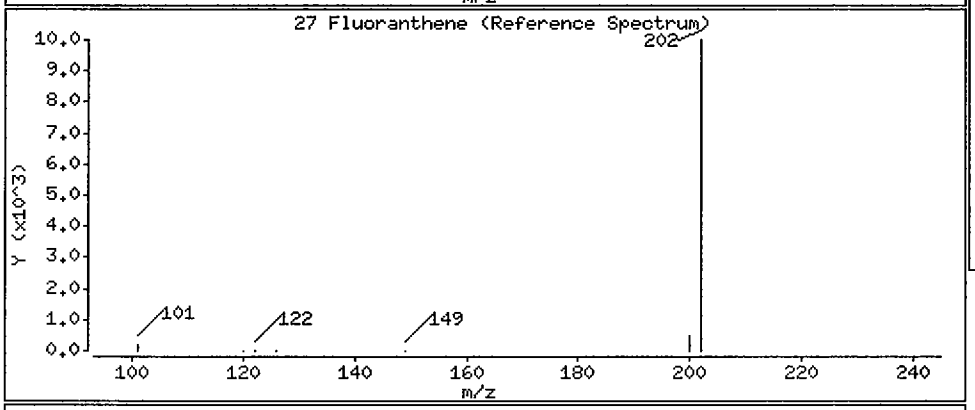
27 Fluoranthene Concentration: 2.0 ug/Kg

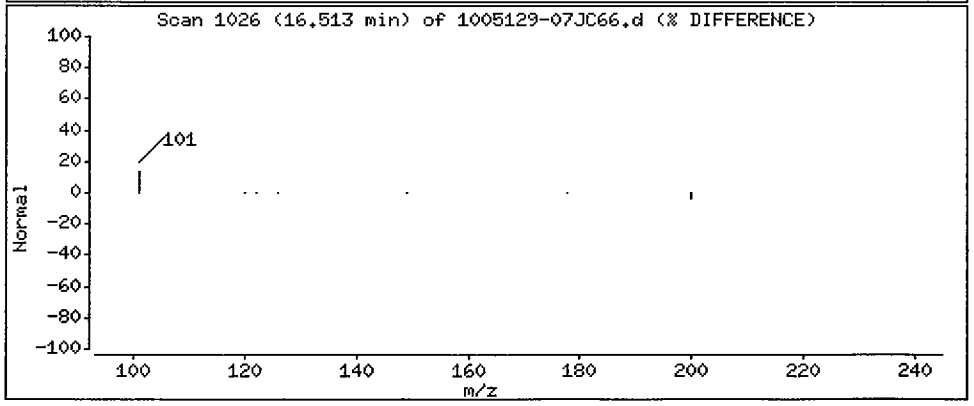












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d

Date : 28-MAY-2010 06:47

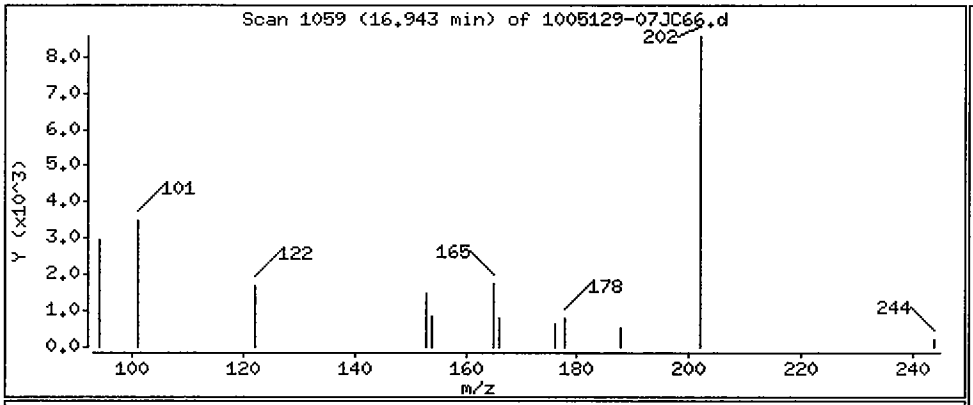
Client ID: SS80-0-1 Instrument: 5972hp66.i

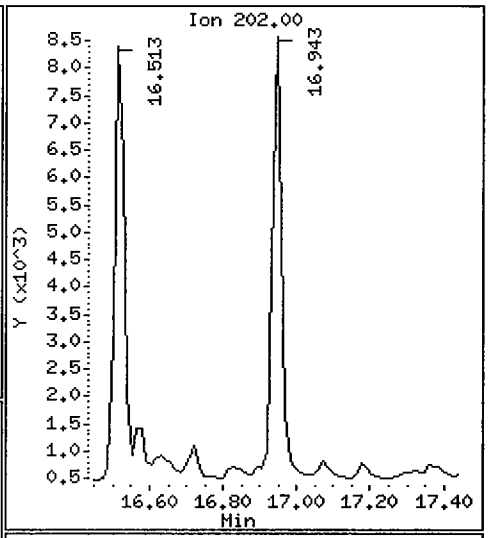
Sample Info: 1005129-07:2743

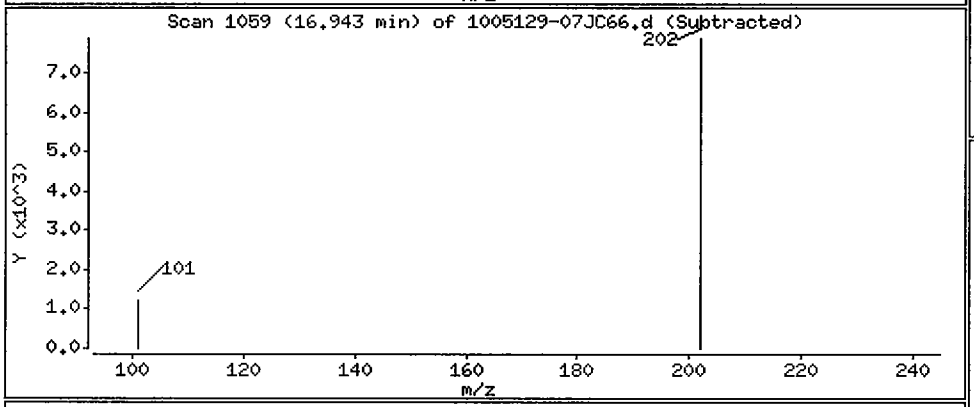
Volume Injected (uL): 2.0 Operator: 2743

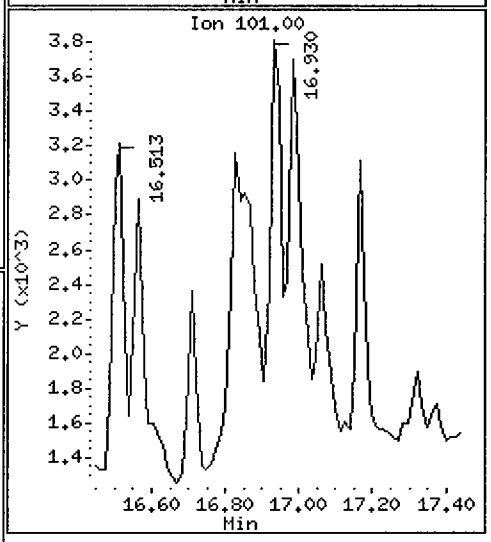
Column phase: Rtx-5MS Column diameter: 0.32

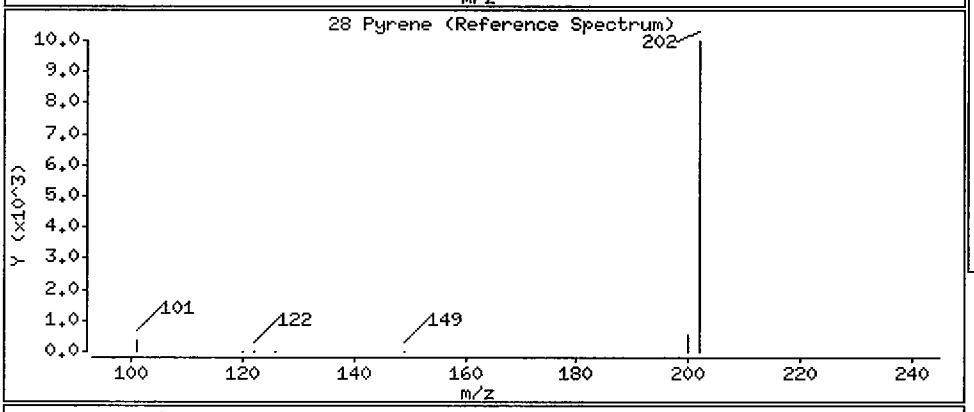
28 Pyrene Concentration: 1.9 ug/Kg

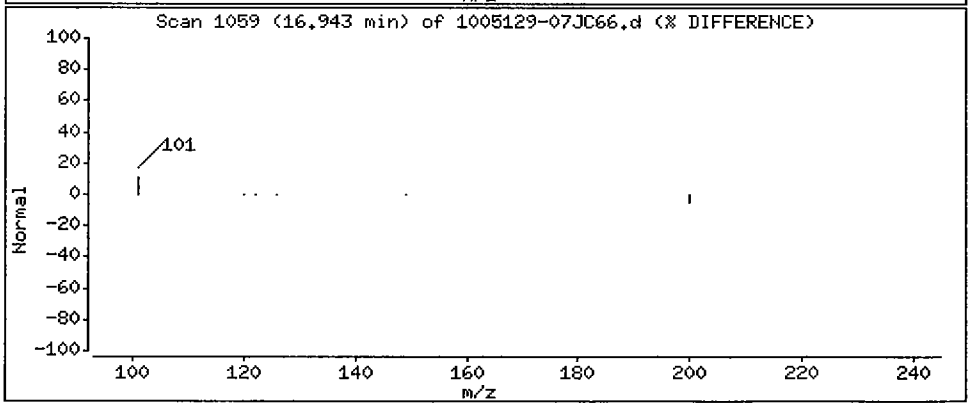












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d

Date : 28-MAY-2010 06:47

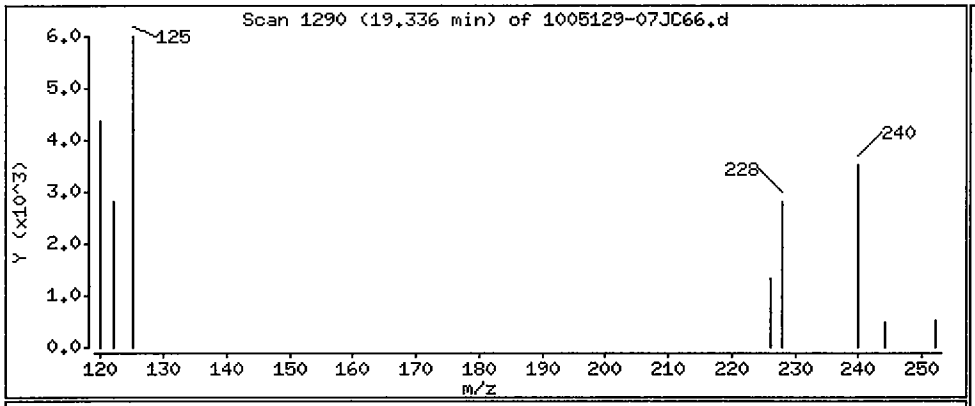
Client ID: SS80-0-1 Instrument: 5972hp66.i

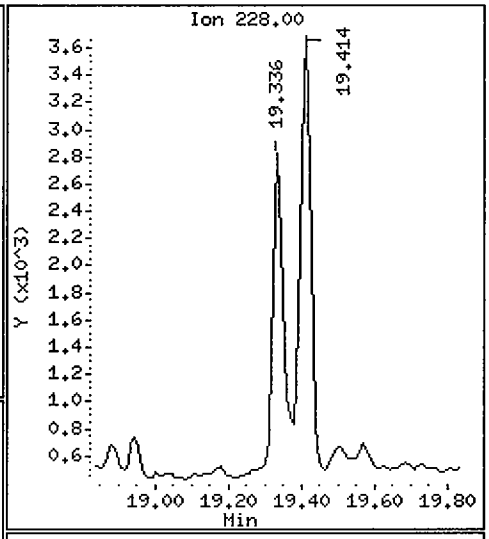
Sample Info: 1005129-07:2743

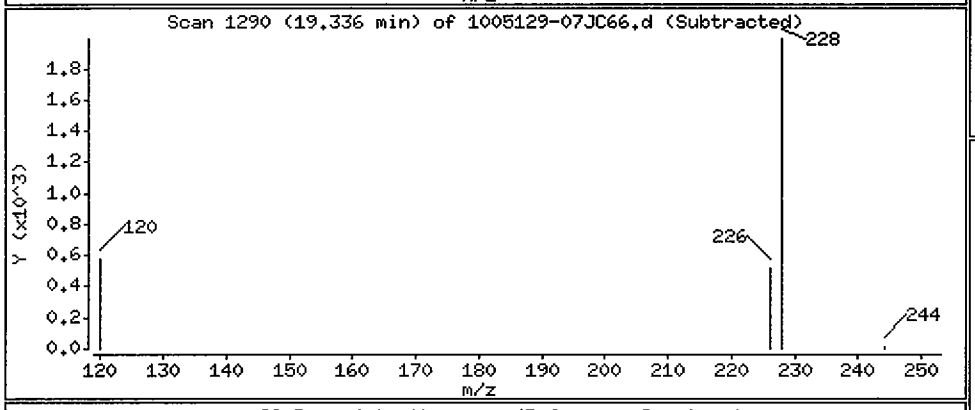
Volume Injected (uL): 2.0 Operator: 2743

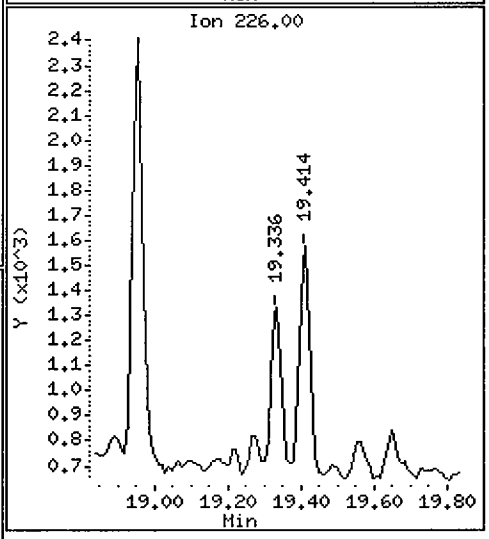
Column phase: Rtx-5MS Column diameter: 0.32

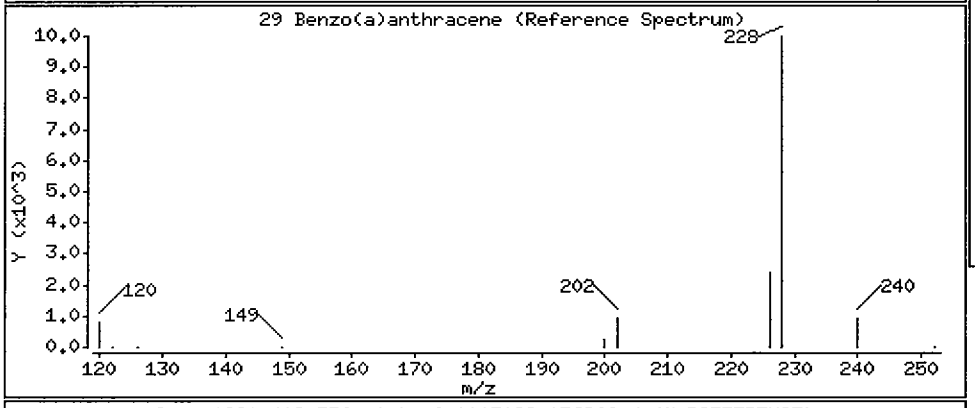
29 Benzo(a)anthracene Concentration: 0.79 ug/Kg

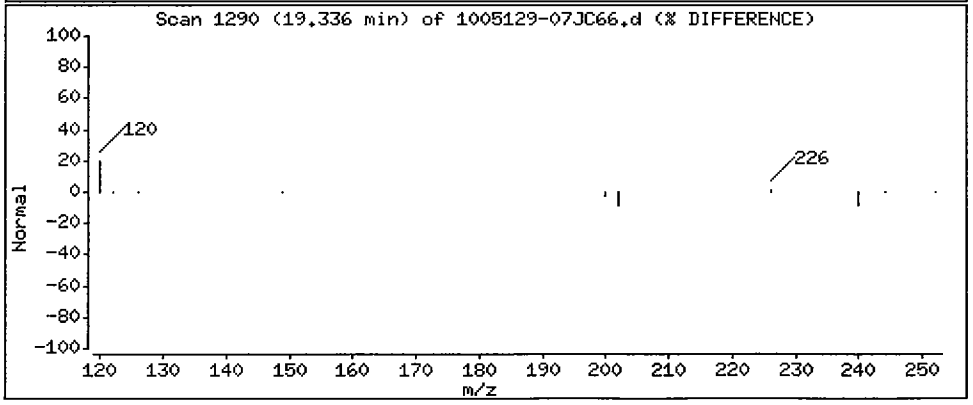












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d

Date : 28-MAY-2010 06:47

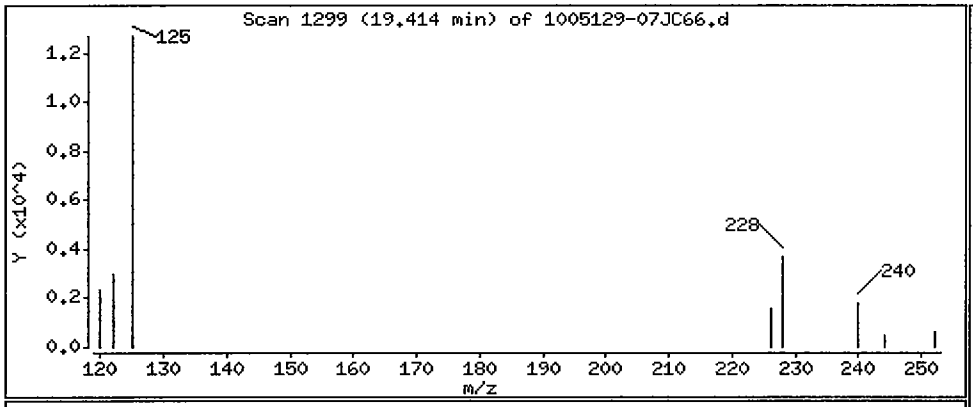
Client ID: SS80-0-1 Instrument: 5972hp66.i

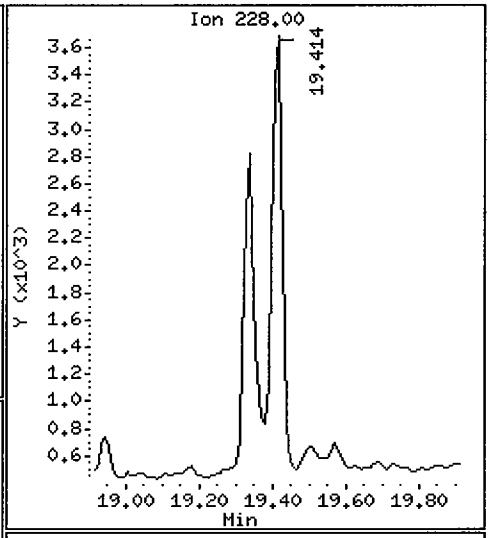
Sample Info: 1005129-07:2743

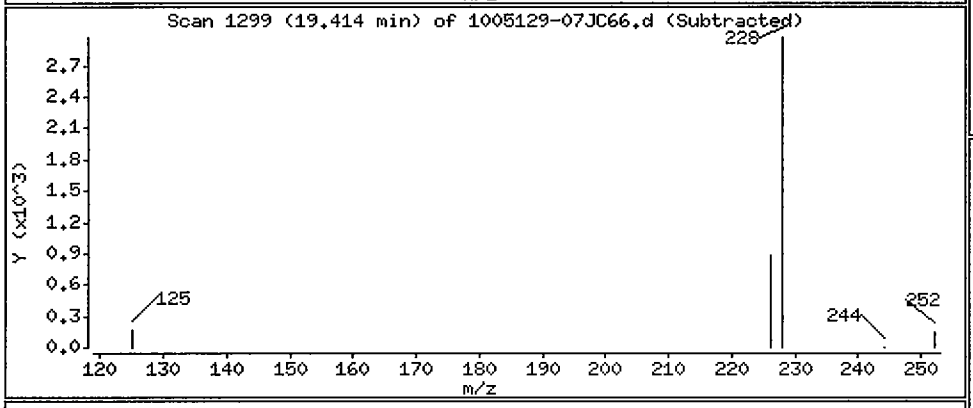
Volume Injected (uL): 2.0 Operator: 2743

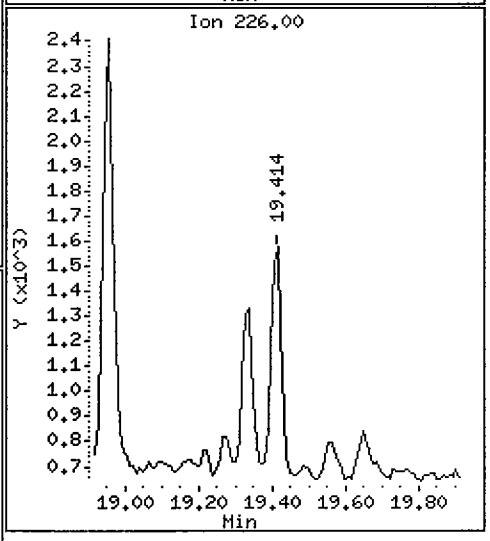
Column phase: Rtx-5MS Column diameter: 0.32

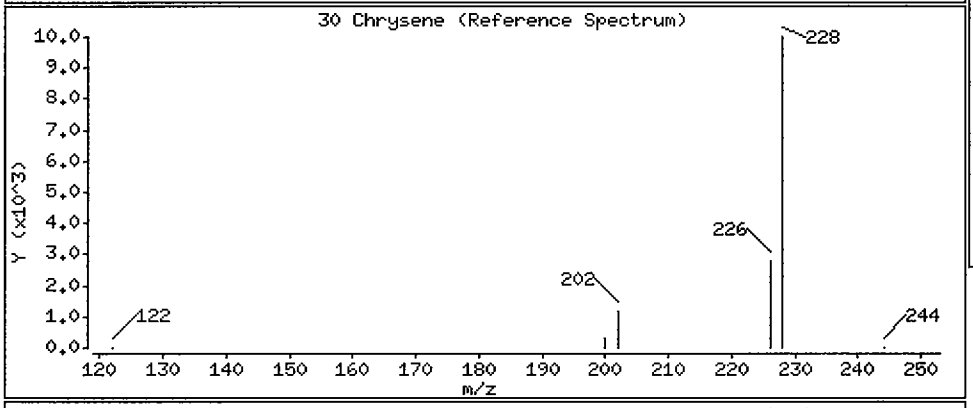
30 Chrysene Concentration: 0.98 ug/Kg

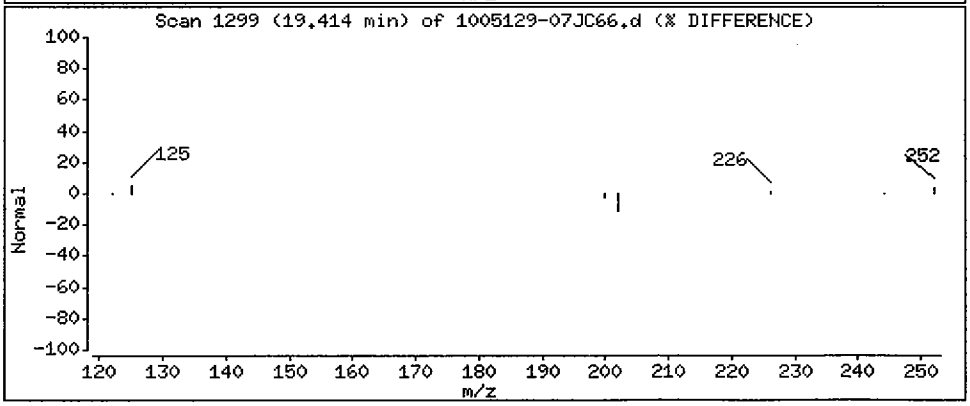












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d

Date : 28-MAY-2010 06:47

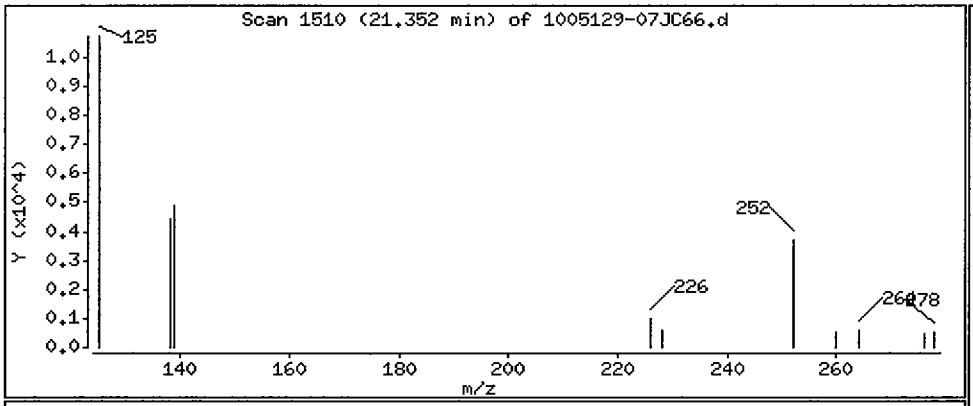
Client ID: SS80-0-1 Instrument: 5972hp66.i

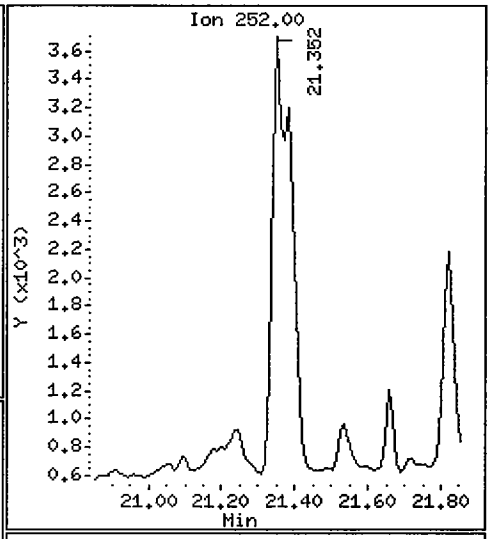
Sample Info: 1005129-07:2743

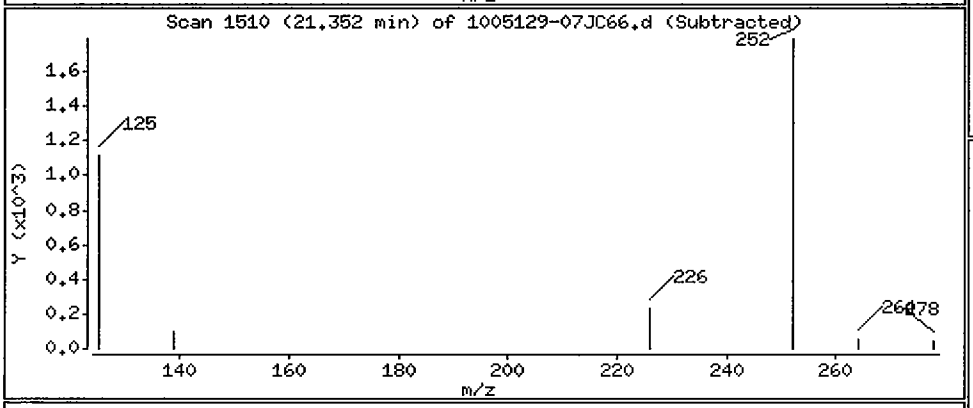
Volume Injected (uL): 2.0 Operator: 2743

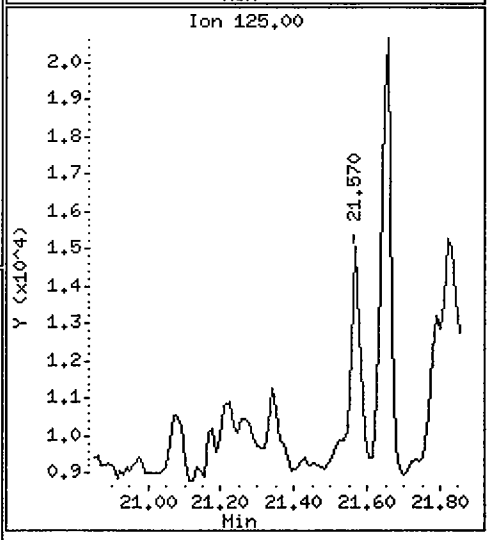
Column phase: Rtx-5MS Column diameter: 0.32

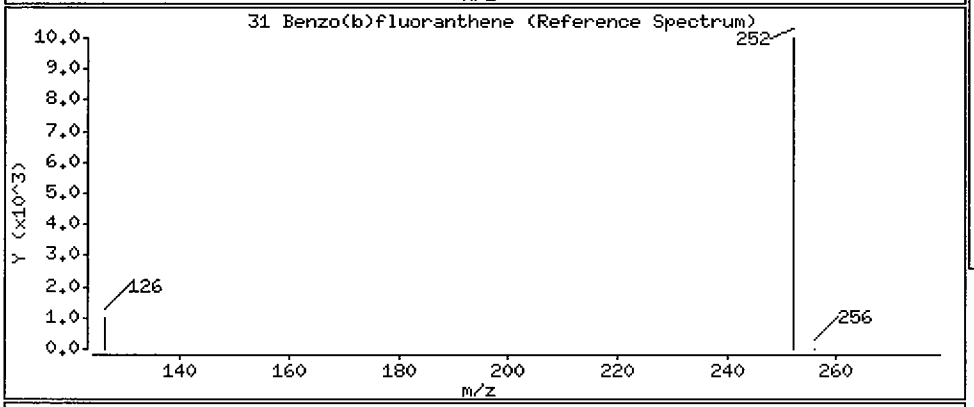
31 Benzo(b)fluoranthene Concentration: 1.4 ug/Kg

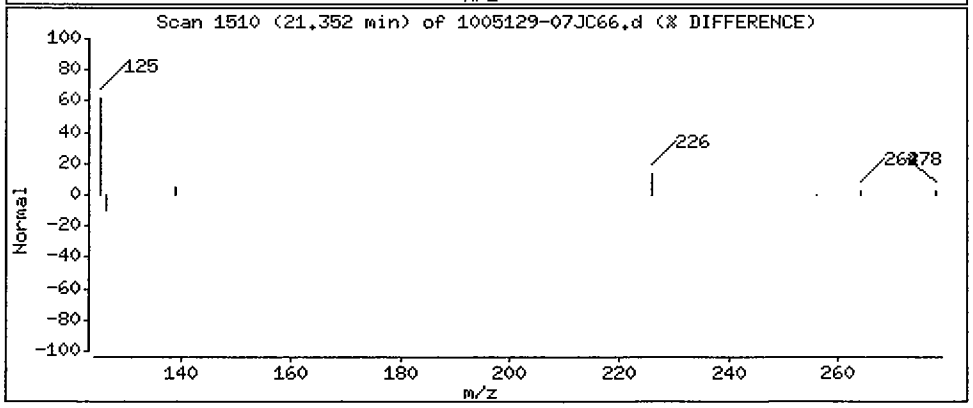












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d

Date : 28-MAY-2010 06:47

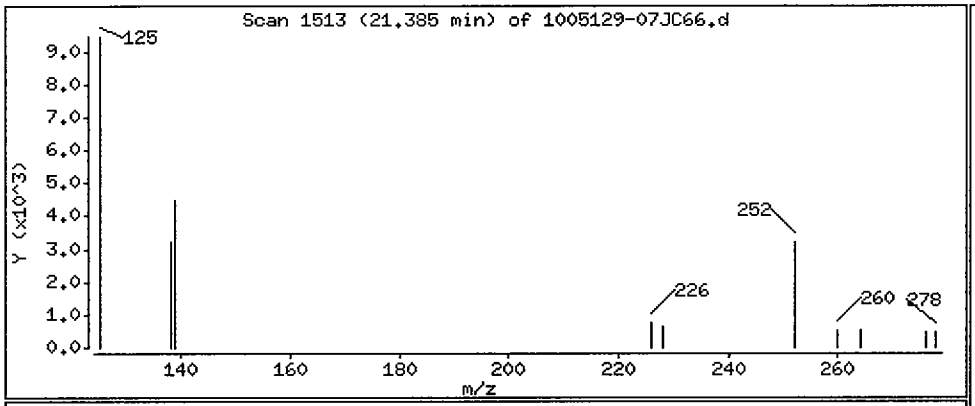
Client ID: SS80-0-1 Instrument: 5972hp66.i

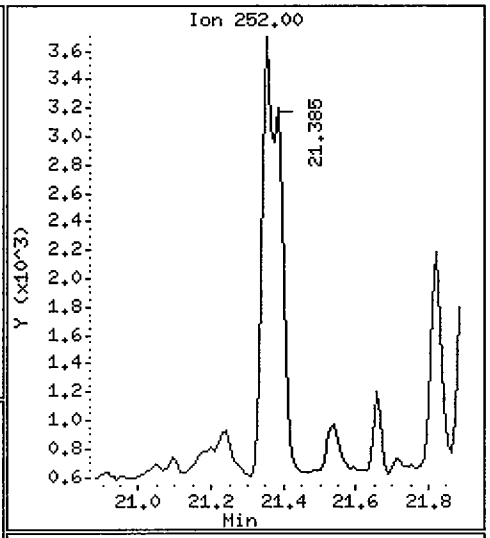
Sample Info: 1005129-07;2743

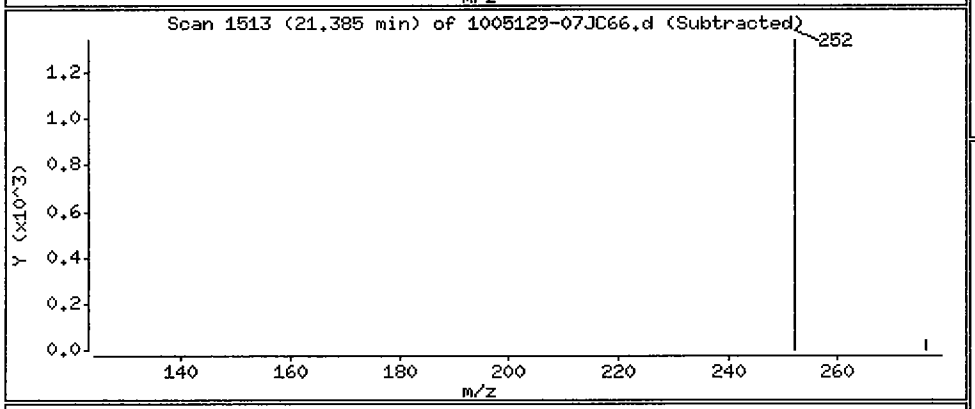
Volume Injected (uL): 2.0 Operator: 2743

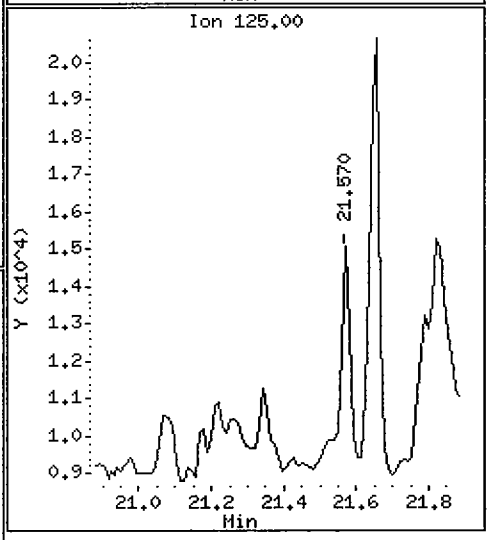
Column phase: Rtx-5MS Column diameter: 0.32

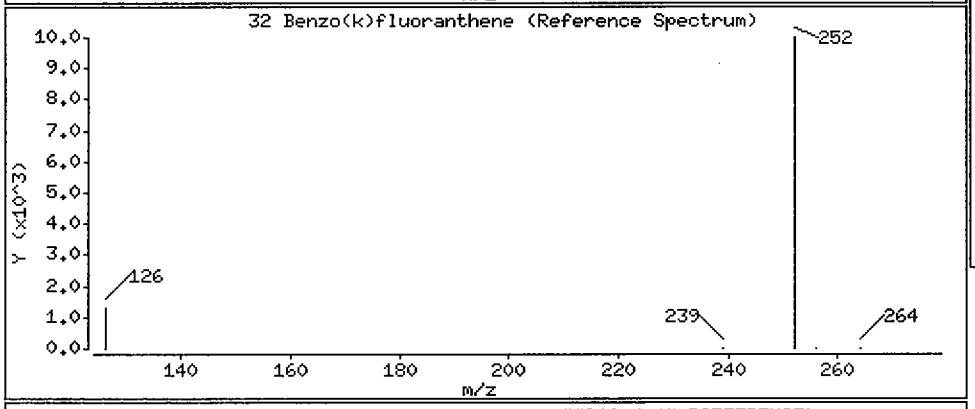
32 Benzo(k)fluoranthene Concentration: 0.96 ug/Kg

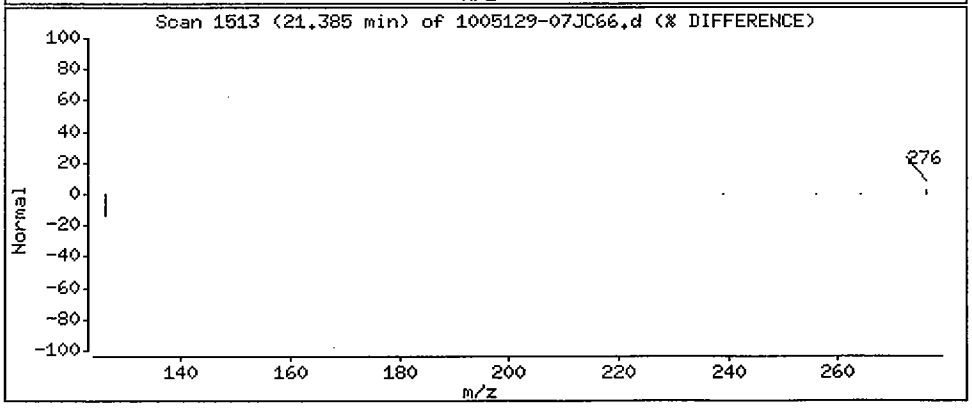












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d

Date : 28-MAY-2010 06:47

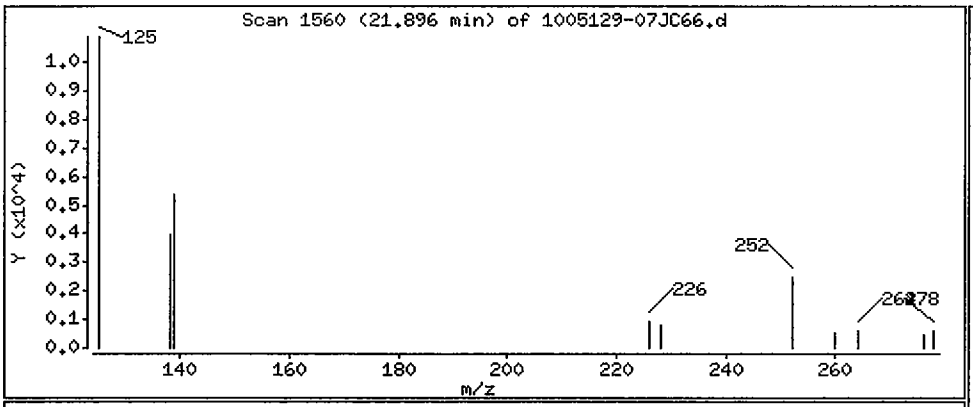
Client ID: SS80-0-1 Instrument: 5972hp66.i

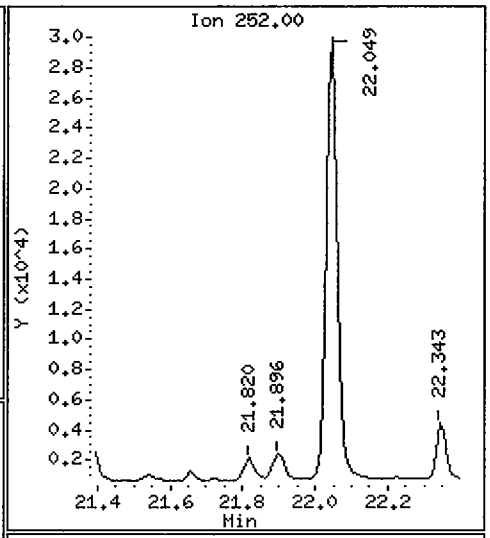
Sample Info: 1005129-07;2743

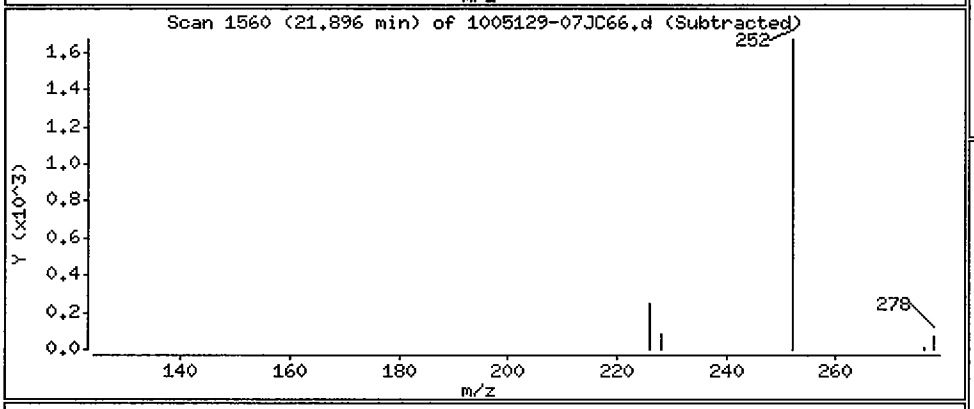
Volume Injected (uL): 2.0 Operator: 2743

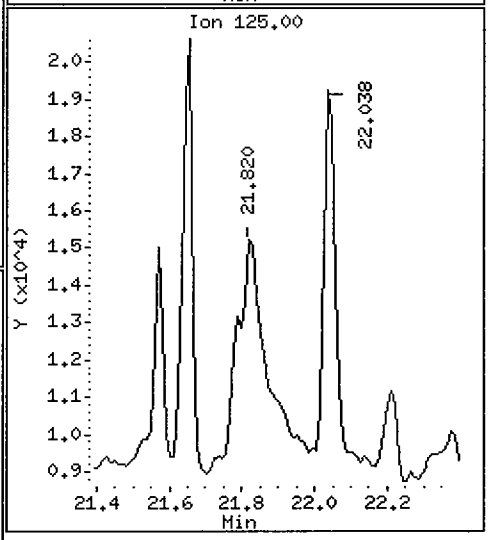
Column phase: Rtx-5MS Column diameter: 0.32

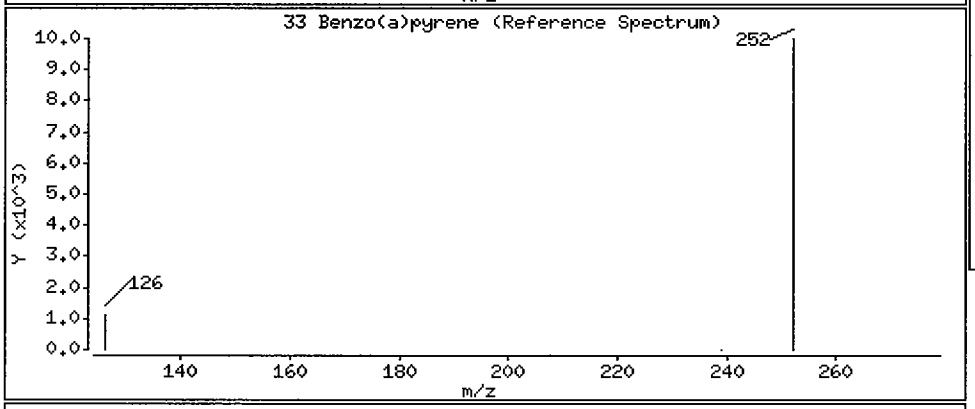
33 Benzo(a)pyrene Concentration: 0.81 ug/Kg

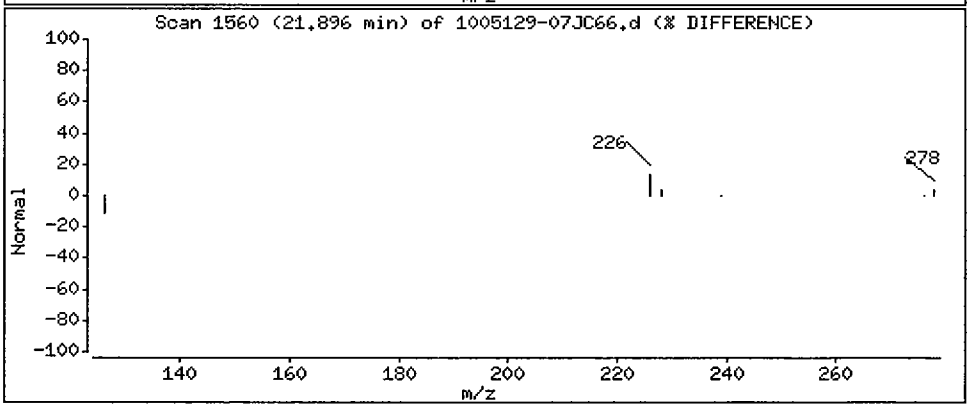












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d

Date : 28-MAY-2010 06:47

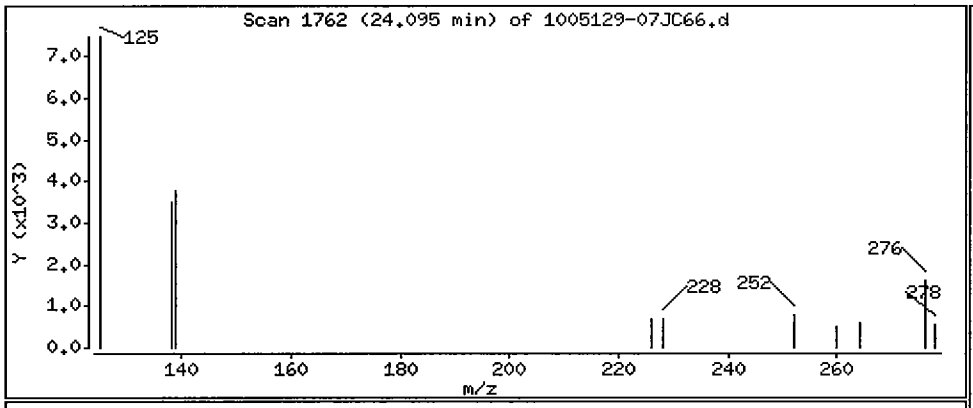
Client ID: SS80-0-1 Instrument: 5972hp66.i

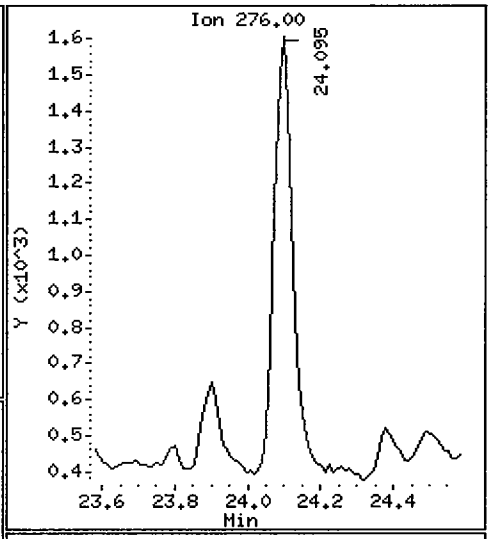
Sample Info: 1005129-07:2743

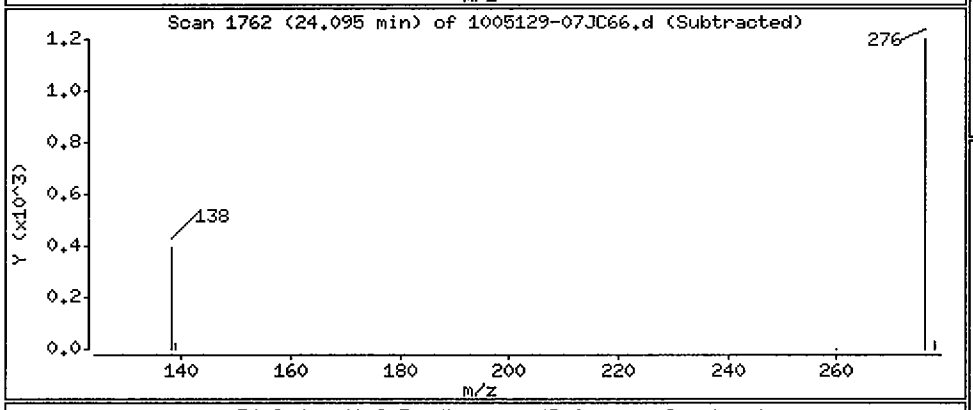
Volume Injected (uL): 2.0 Operator: 2743

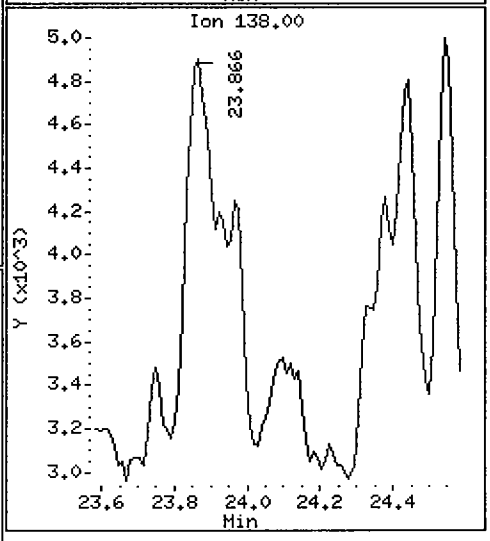
Column phase: Rtx-5MS Column diameter: 0.32

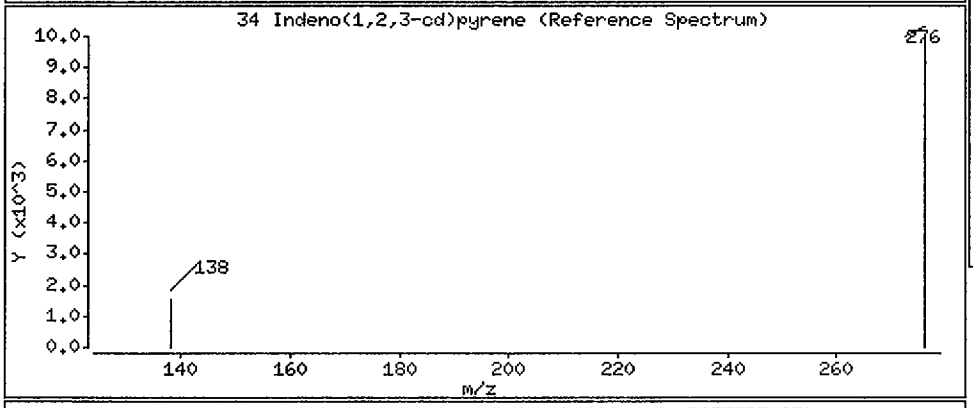
34 Indeno(1,2,3-cd)pyrene Concentration: 1.0 ug/Kg

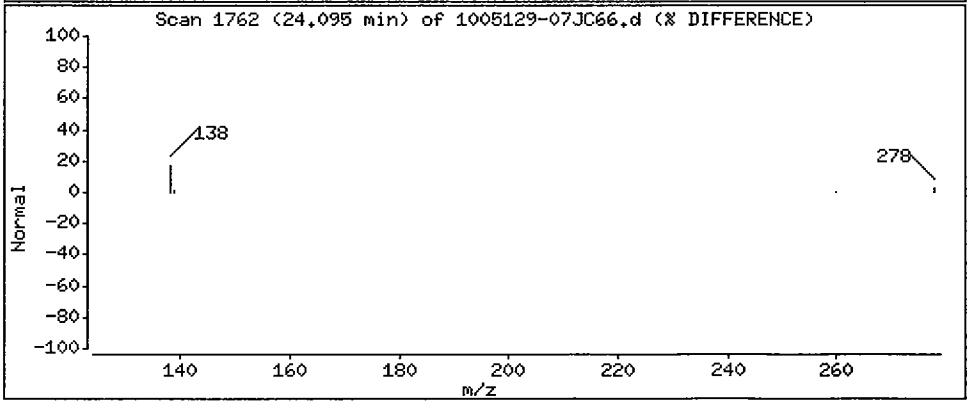












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-07JC66.d

Date : 28-MAY-2010 06:47

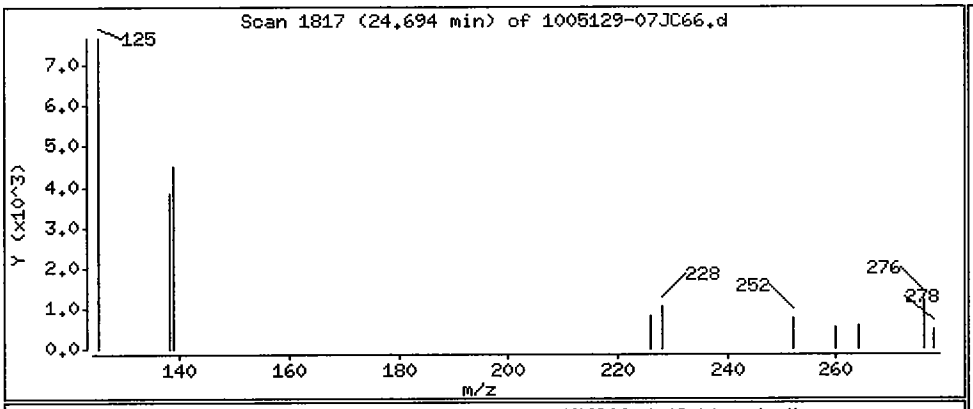
Client ID: SS80-0-1 Instrument: 5972hp66.i

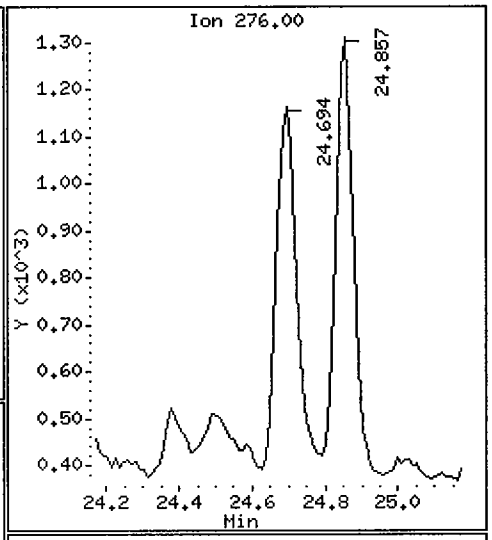
Sample Info: 1005129-07:2743

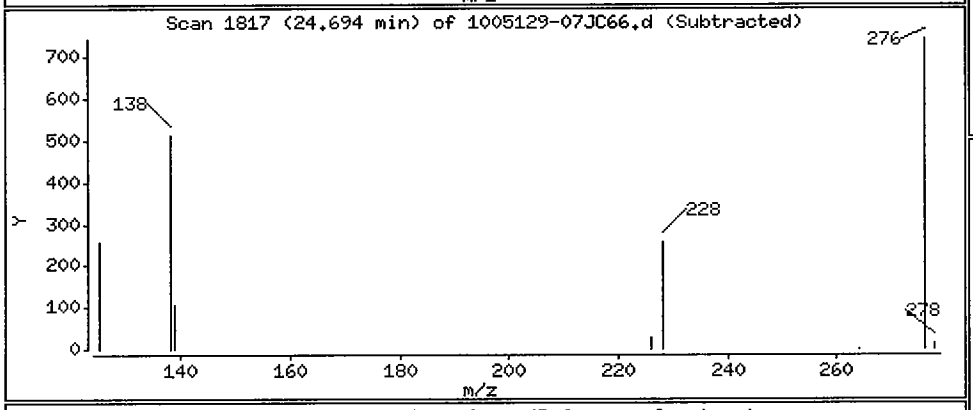
Volume Injected (uL): 2.0 Operator: 2743

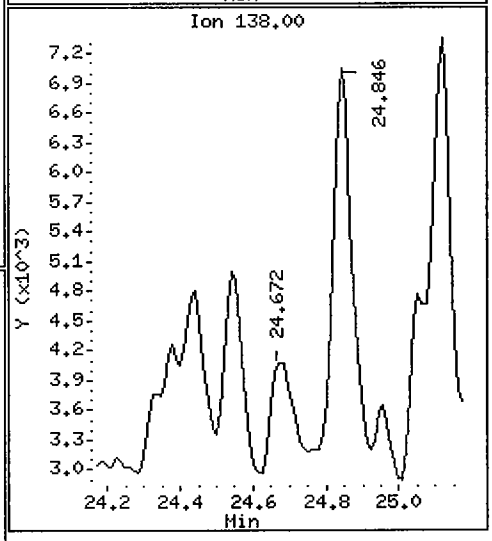
Column phase: Rtx-5MS Column diameter: 0.32

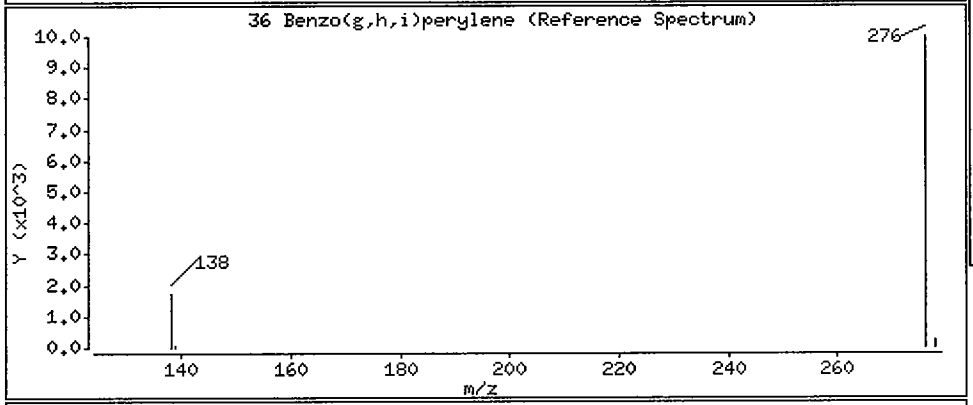
36 Benzo(g,h,i)perylene Concentration: 0.66 ug/Kg

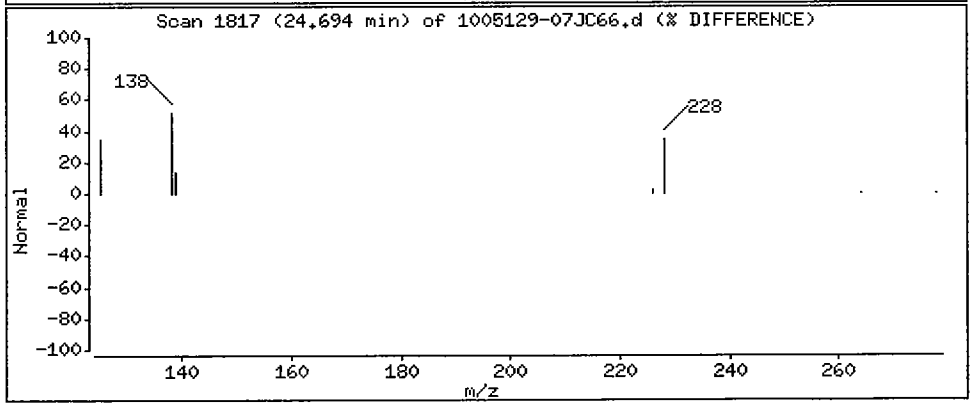












1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS85-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-17
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-17C66
Analyst: 2743

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

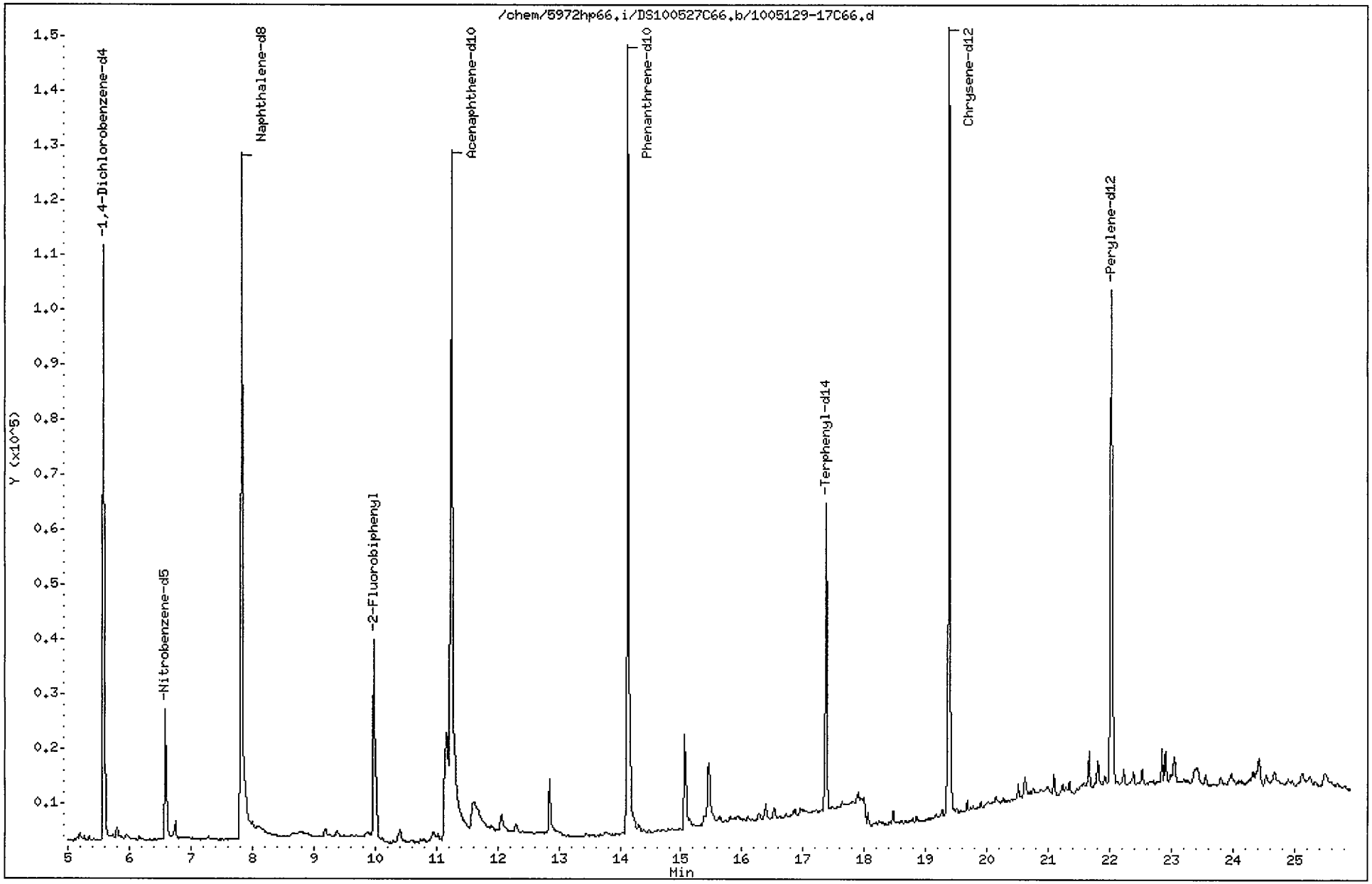
Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	ND	U
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	ND	U
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	ND	U
120-12-7	Anthracene	0.48	9.2	ND	U
206-44-0	Fluoranthene	1.5	9.2	ND	U
129-00-0	Pyrene	0.63	9.2	ND	U
56-55-3	Benzo(a)anthracene	0.63	9.2	ND	U
218-01-9	Chrysene	0.70	9.2	ND	U
205-99-2	Benzo(b)fluoranthene	0.63	9.2	ND	U
207-08-9	Benzo(k)fluoranthene	0.48	9.2	ND	U
50-32-8	Benzo(a)pyrene	0.43	9.2	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-17C66.d
Date : 28-MAY-2010 12:28
Client ID: SS85-0-1
Sample Info: 1005129-17:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-17C66.d
Report Date: 02-Jun-2010 09:50

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-17C66.d
Lab Smp Id: 1005129-17 Client Smp ID: SS85-0-1
Inj Date : 28-MAY-2010 12:28
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-17:2743
Misc Info : SS85-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	10.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.586	5.560	(1.000)	74280	2.00000	
*	2 Naphthalene-d8	136	7.828	7.815	(1.000)	218917	2.00000	
*	3 Acenaphthene-d10	164	11.243	11.231	(1.000)	123059	2.00000	(M)
*	4 Phenanthrene-d10	188	14.127	14.126	(1.000)	253327	2.00000	
*	5 Chrysene-d12	240	19.379	19.371	(1.000)	222652	2.00000	
*	6 Perylene-d12	264	22.015	22.004	(1.000)	162751	2.00000	
$	9 Nitrobenzene-d5	82	6.590	6.576	(0.842)	29776	0.61125	11
$	10 2-Fluorobiphenyl	172	9.979	9.978	(1.000)	59753	0.46531	8.6
$	12 Terphenyl-d14	244	17.373	17.372	(0.896)	76300	0.94315	17
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

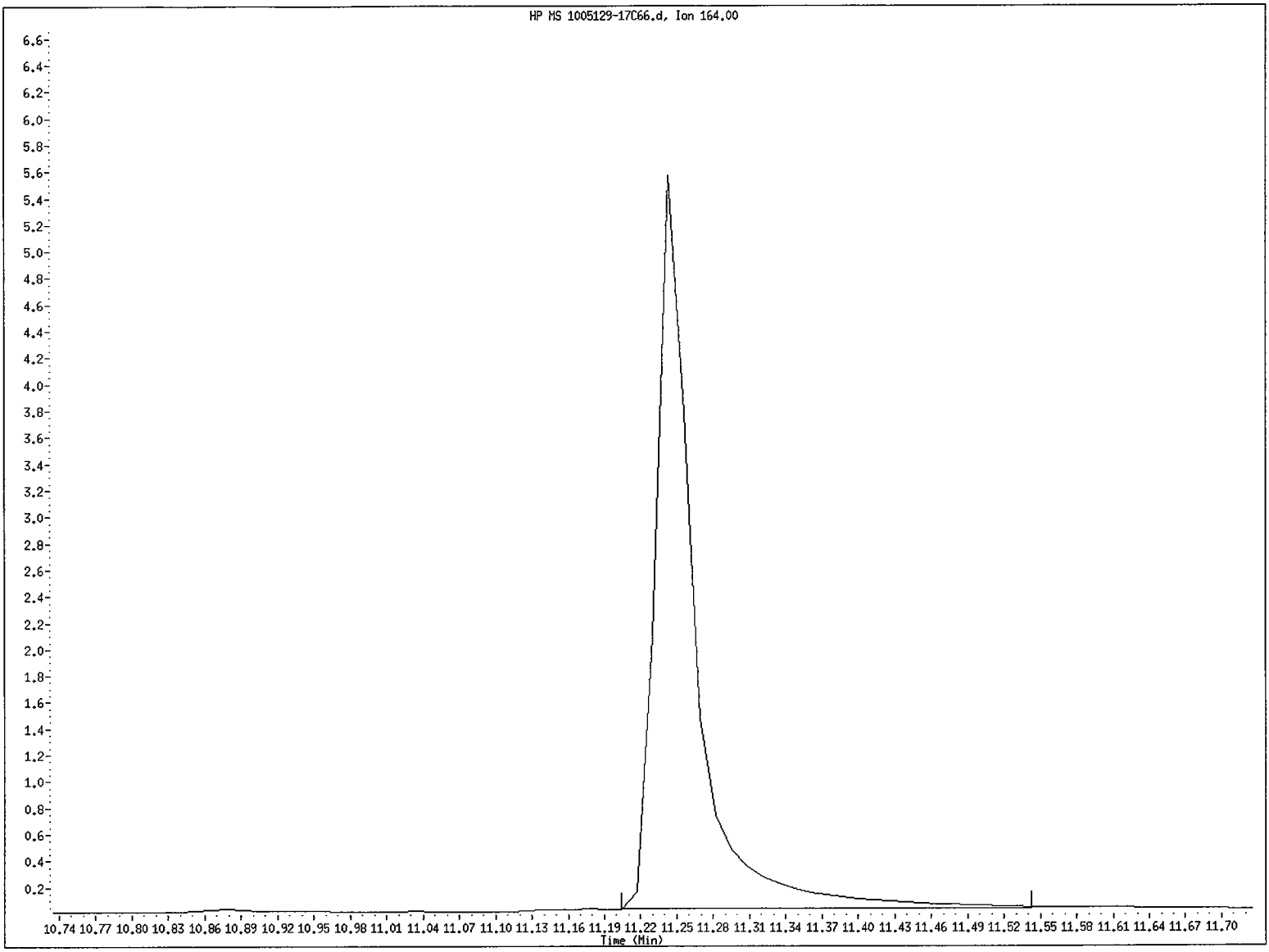
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-17C66.d
Report Date: 02-Jun-2010 09:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Acenaphthene-d10 CAS Number 15067-26-2 Area = 123059 Manually integrated



File name: /chem/5972hp66.i/DS100527C66.b/1005129-17C66.d
Client ID: SS85-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 12:28
Retention Time: 11.24
Operator ID: 2743

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS89-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005129-18
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005129-18C66
Analyst: 2743

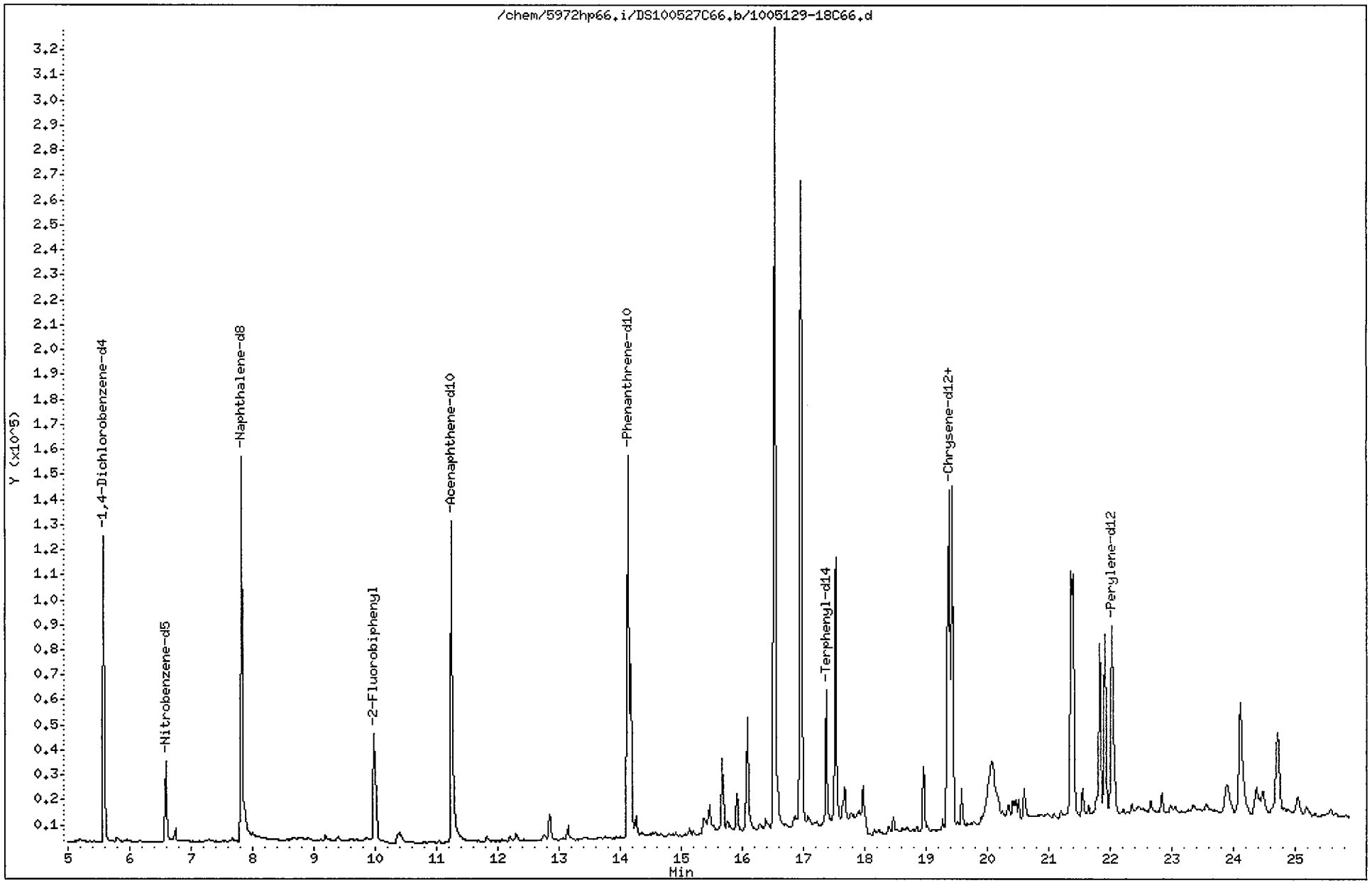
% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/28/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	13	
120-12-7	Anthracene	0.47	9.0	1.6	J
206-44-0	Fluoranthene	1.4	9.0	69	
129-00-0	Pyrene	0.62	9.0	52	
56-55-3	Benzo(a)anthracene	0.62	9.0	22	
218-01-9	Chrysene	0.69	9.0	32	
205-99-2	Benzo(b)fluoranthene	0.62	9.0	36	
207-08-9	Benzo(k)fluoranthene	0.47	9.0	32	
50-32-8	Benzo(a)pyrene	0.42	9.0	27	
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	23	
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	5.8	J
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	19	

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d
Date : 28-MAY-2010 13:02
Client ID: SS89-0-1
Instrument: 5972hp66.i
Sample Info: 1005129-18:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d
Report Date: 02-Jun-2010 09:50

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d
Lab Smp Id: 1005129-18 Client Smp ID: SS89-0-1
Inj Date : 28-MAY-2010 13:02
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005129-18:2743
Misc Info : SS89-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 09:40 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	8.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.586	5.560	(1.000)	83502	2.00000		(a)
* 2 Naphthalene-d8	136	7.828	7.815	(1.000)	247805	2.00000		(a)
* 3 Acenaphthene-d10	164	11.243	11.231	(1.000)	138885	2.00000		(a)
* 4 Phenanthrene-d10	188	14.127	14.126	(1.000)	256366	2.00000		(a)
* 5 Chrysene-d12	240	19.380	19.371	(1.000)	196970	2.00000		(a)
* 6 Perylene-d12	264	22.015	22.004	(1.000)	137344	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.590	6.576	(0.842)	39729	0.72049	13	
$ 10 2-Fluorobiphenyl	172	9.979	9.978	(0.888)	69490	0.47948	8.7	
$ 12 Terphenyl-d14	244	17.373	17.372	(0.896)	69900	0.97670	18	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

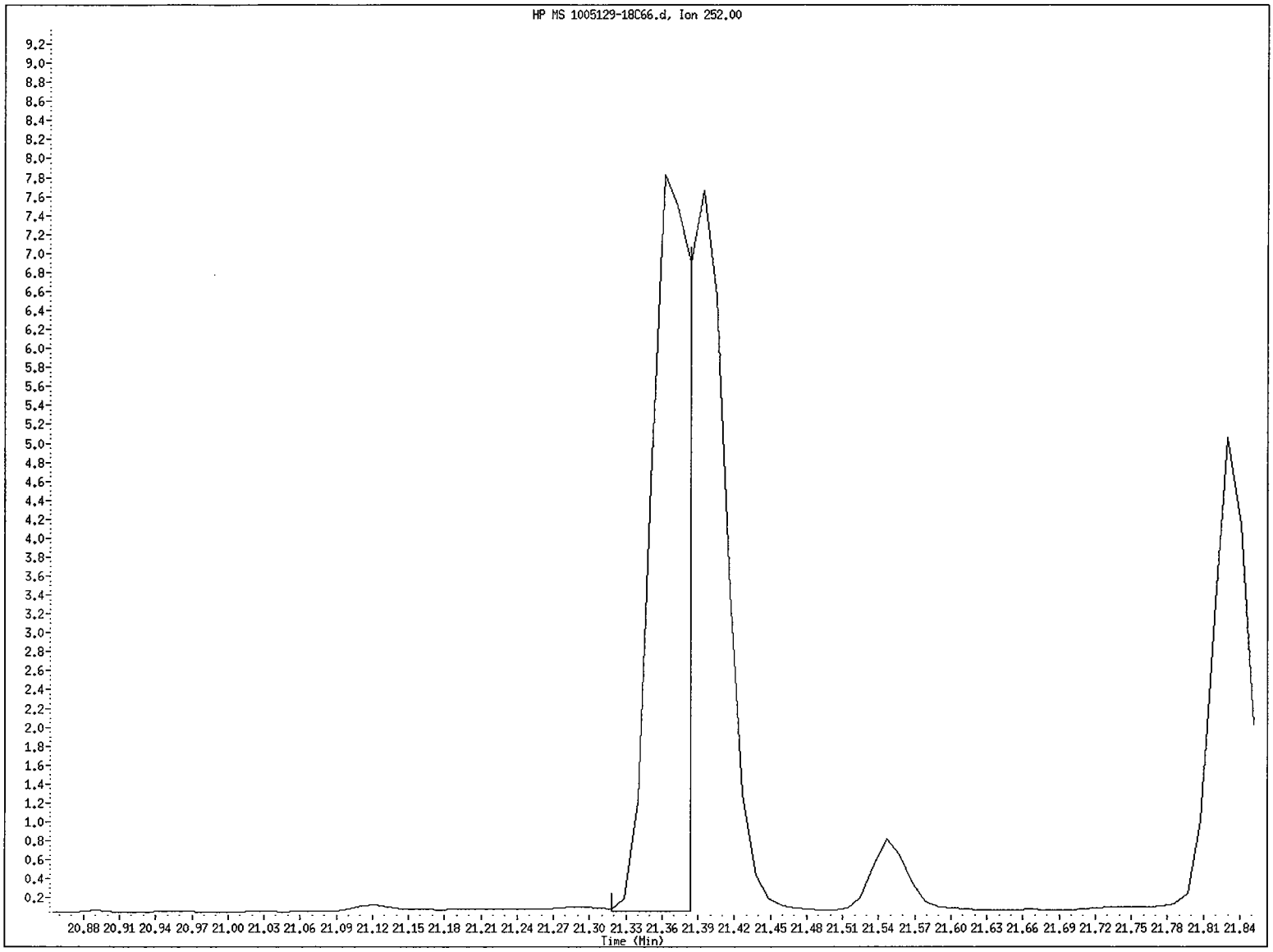
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d
Report Date: 02-Jun-2010 09:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.179	14.165	(1.004)	110811	0.69317	13
26 Anthracene	178	14.257	14.243	(1.009)	12702	0.08834	1.6(a)
27 Fluoranthene	202	16.526	16.525	(0.853)	496649	3.80257	69
28 Pyrene	202	16.956	16.942	(0.875)	404795	2.84594	52
29 Benzo(a)anthracene	228	19.345	19.336	(0.998)	130659	1.22027	22
30 Chrysene	228	19.424	19.414	(1.002)	206906	1.78406	32
31 Benzo(b)fluoranthene	252	21.362	21.351	(0.970)	182008	2.00944	36(M)
32 Benzo(k)fluoranthene	252	21.394	21.383	(0.972)	170206	1.74619	32(M)
33 Benzo(a)pyrene	252	21.906	21.895	(0.995)	123254	1.51001	27
34 Indeno(1,2,3-cd)pyrene	276	24.115	24.083	(1.095)	92406	1.28323	23
35 Dibenzo(a,h)anthracene	278	24.159	24.137	(1.097)	22731	0.31911	5.8(a)
36 Benzo(g,h,i)perylene	276	24.714	24.671	(1.123)	82222	1.03017	19

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

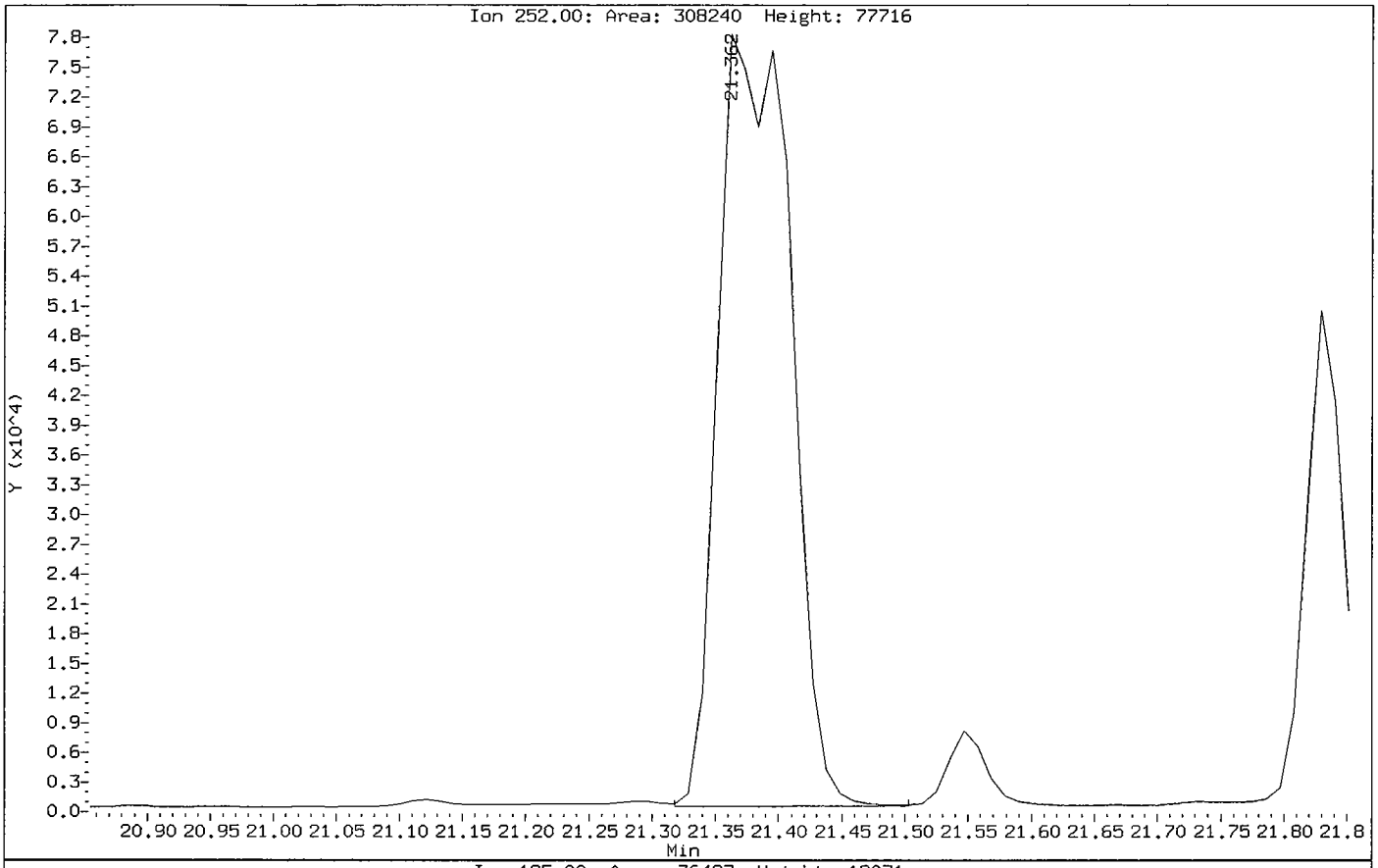
Benzo(b)fluoranthene CAS Number 205-99-2 Area = 182008 Manually integrated

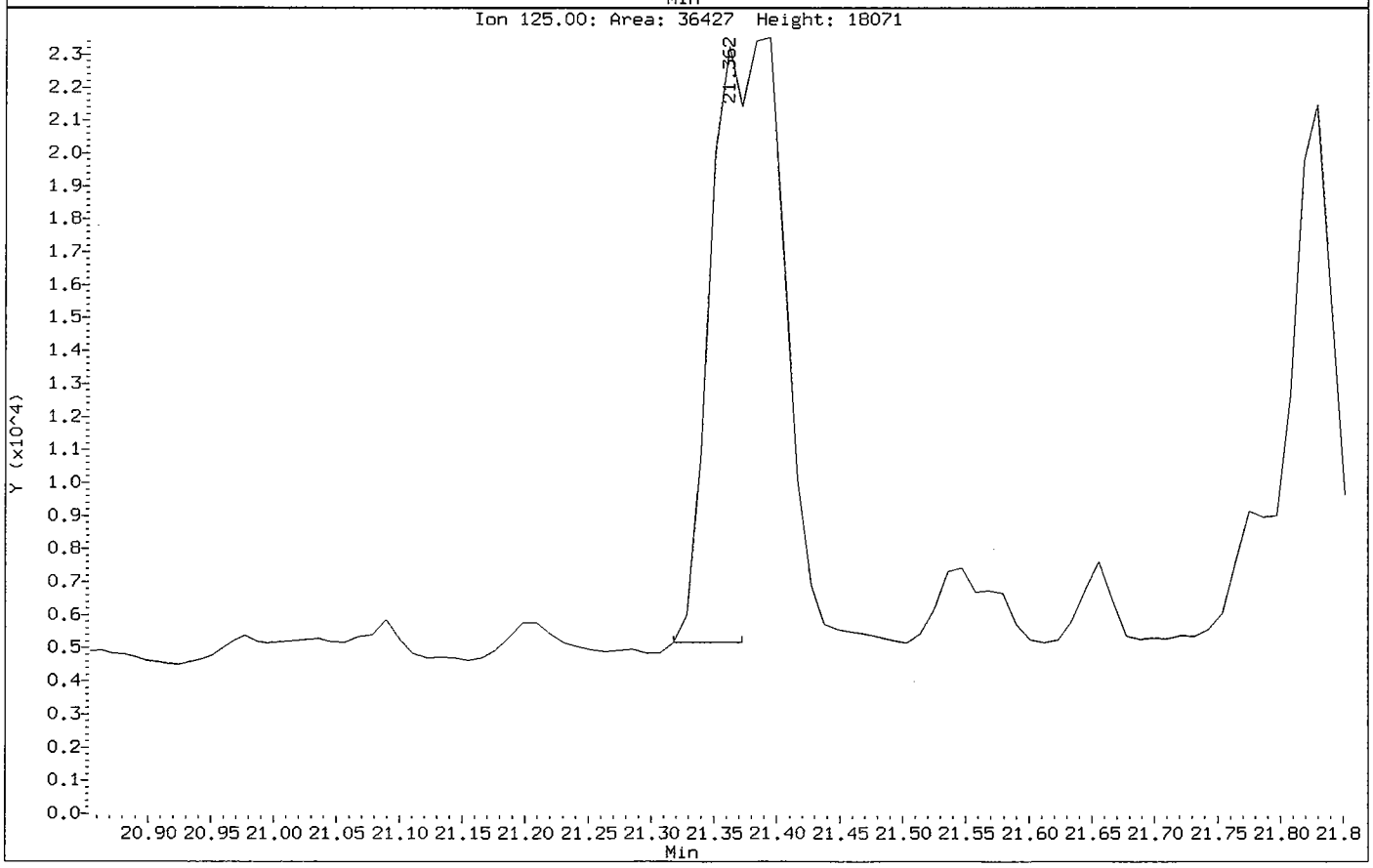


File name: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d
Client ID: SS89-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 13:02
Retention Time: 21.36
Operator ID: 2743

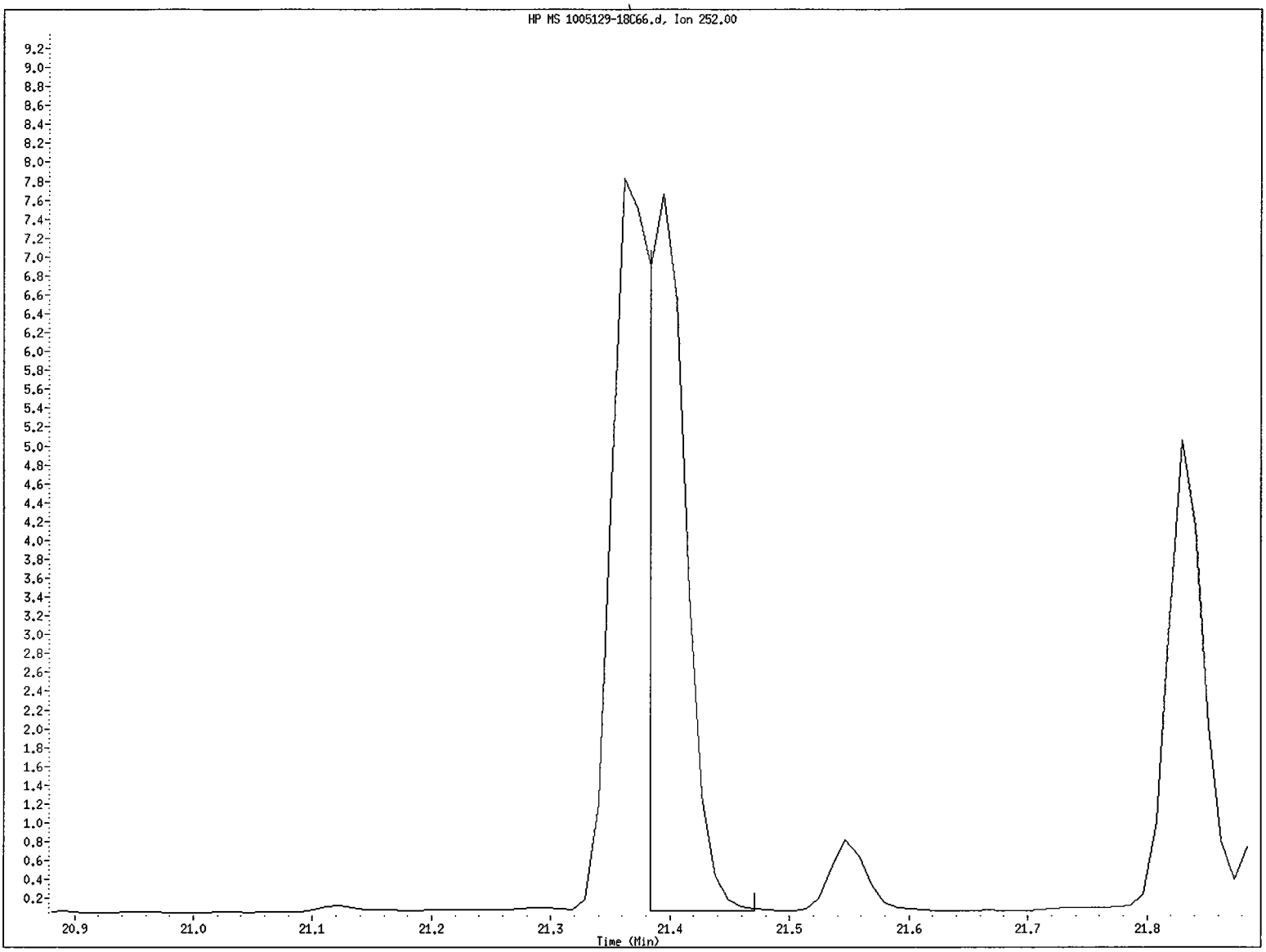
Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d
Injection Date: 28-MAY-2010 13:02
Instrument: 5972hp66.i
Client Sample ID: SS89-0-1

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





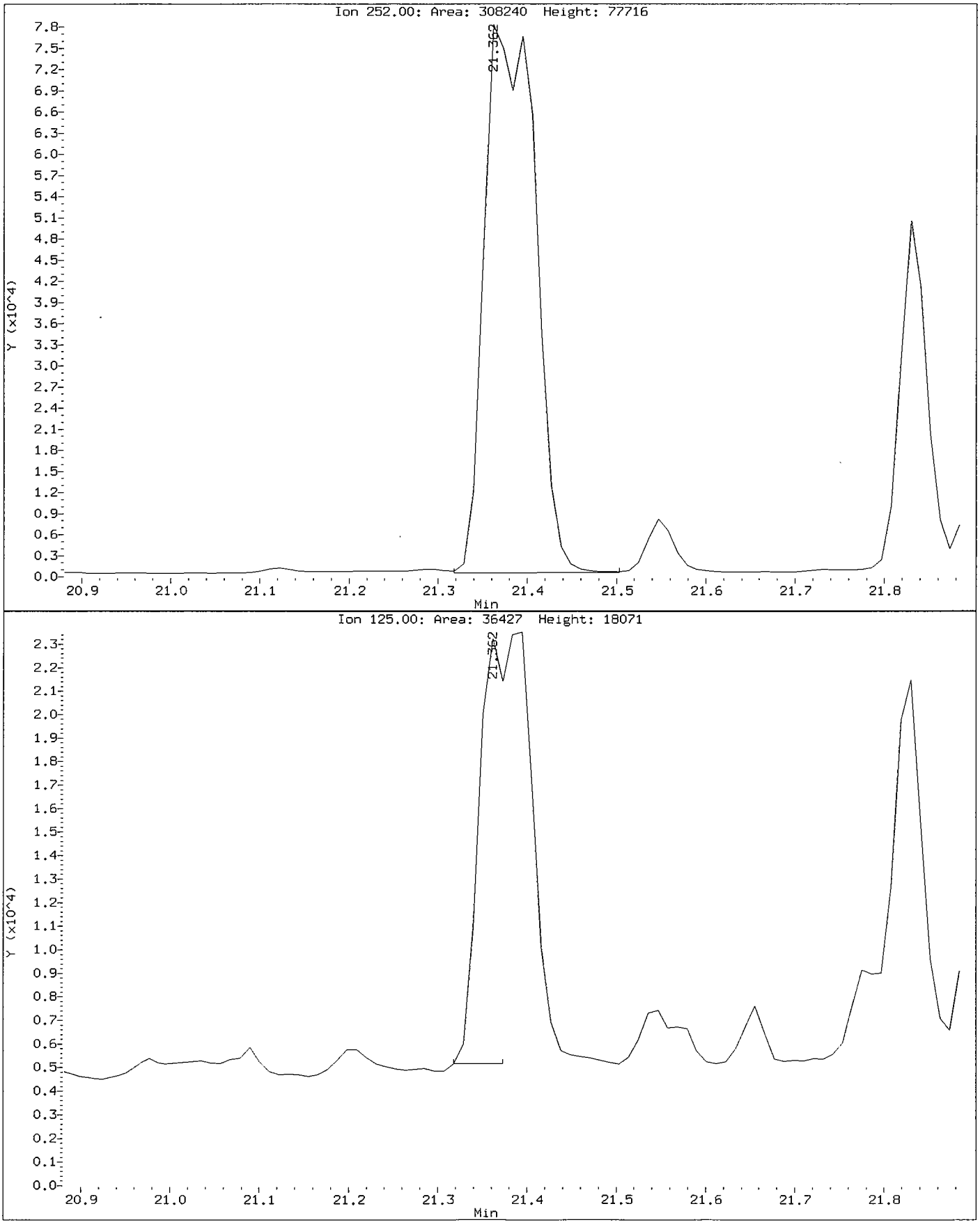
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 170206 Manually integrated



File name: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d
Client ID: SS89-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 13:02
Retention Time: 21.39
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d
Injection Date: 28-MAY-2010 13:02
Instrument: 5972hp66.i
Client Sample ID: SS89-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

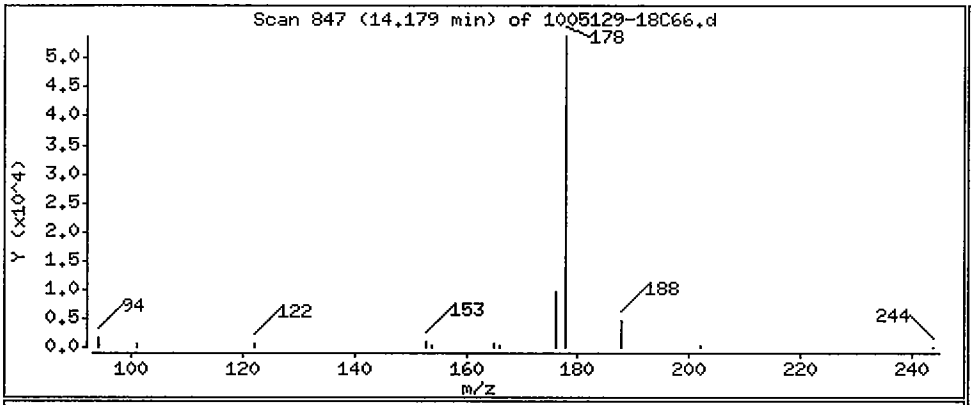
Client ID: SS89-0-1 Instrument: 5972hp66.i

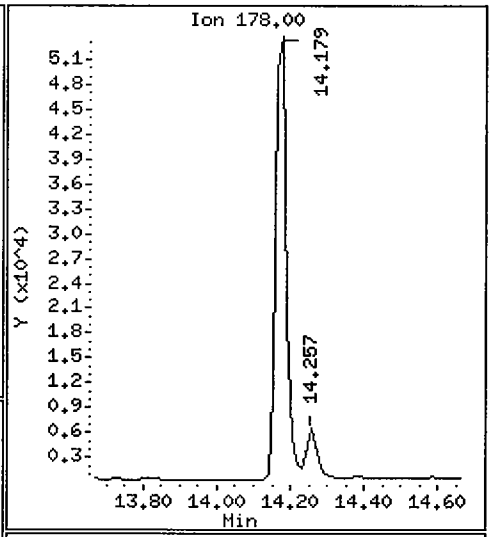
Sample Info: 1005129-18:2743

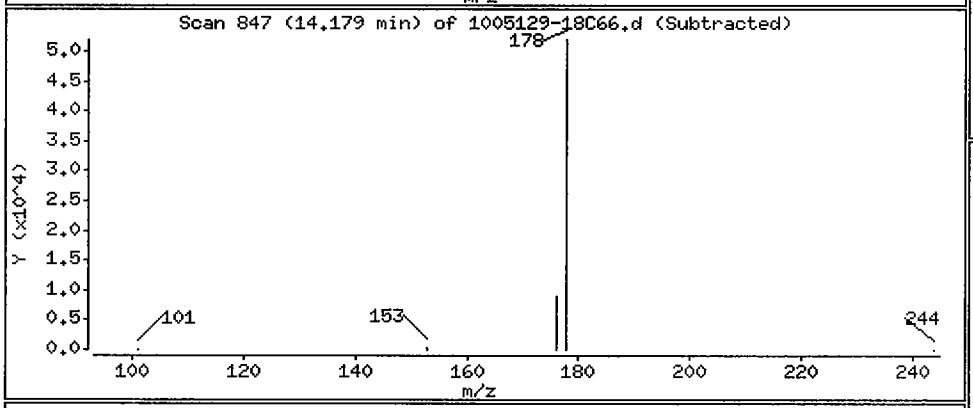
Volume Injected (uL): 2.0 Operator: 2743

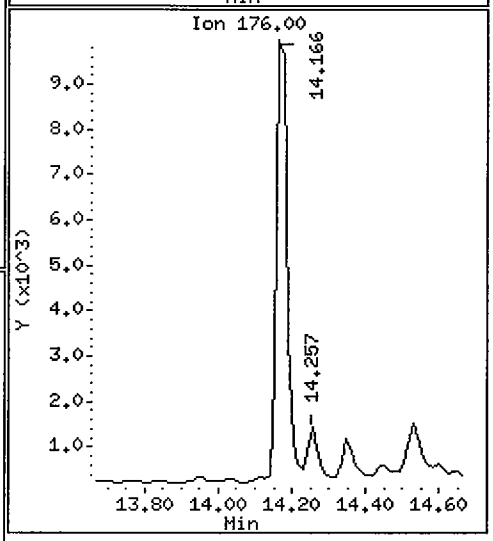
Column phase: Rtx-5MS Column diameter: 0.32

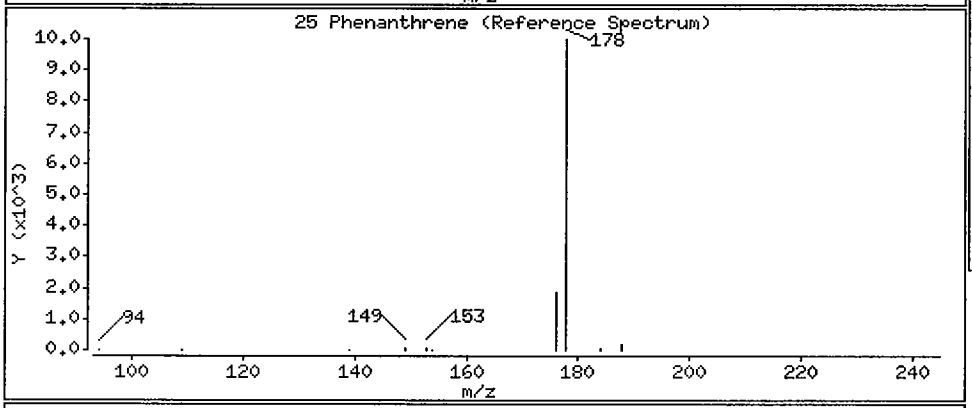
25 Phenanthrene Concentration: 13 ug/Kg

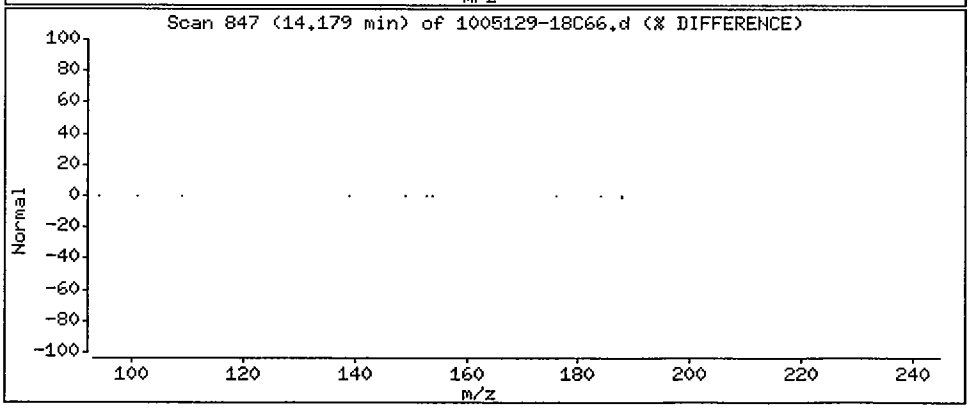












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

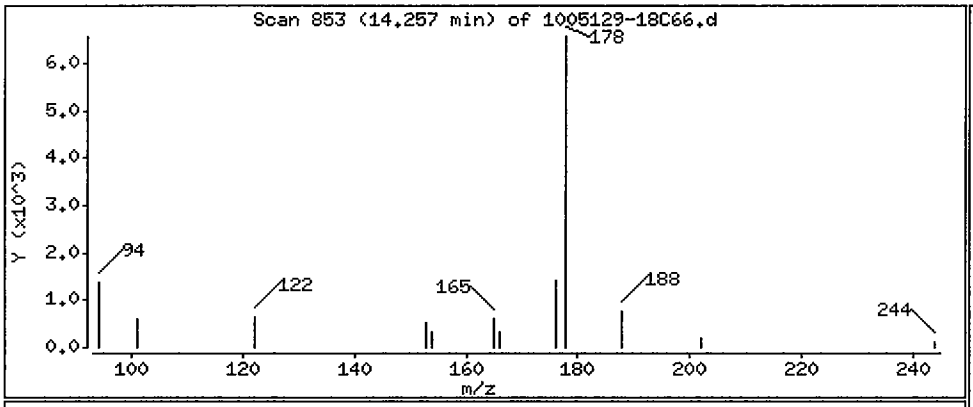
Client ID: SS89-0-1 Instrument: 5972hp66.i

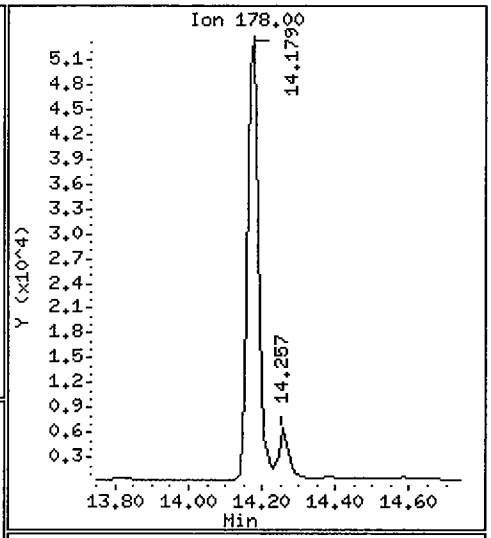
Sample Info: 1005129-18:2743

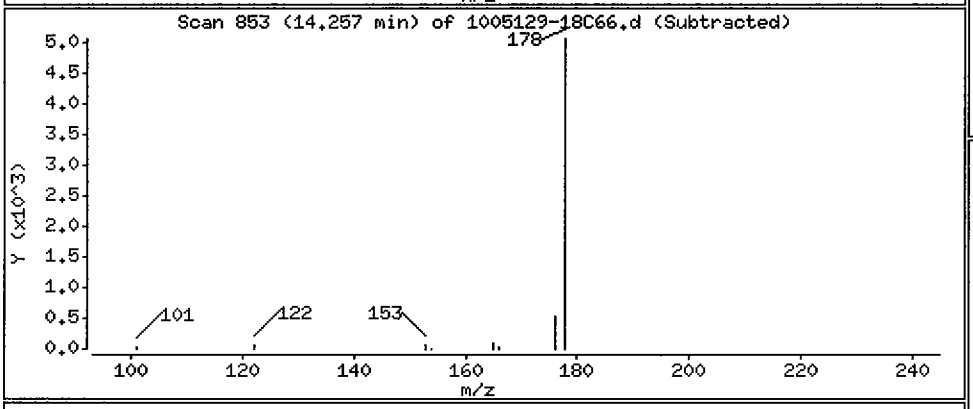
Volume Injected (uL): 2.0 Operator: 2743

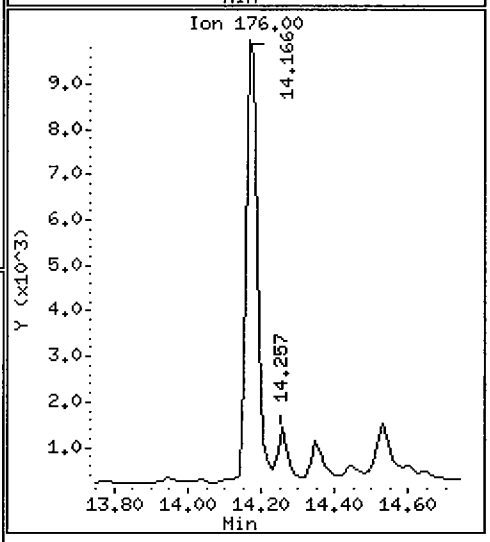
Column phase: Rtx-5MS Column diameter: 0.32

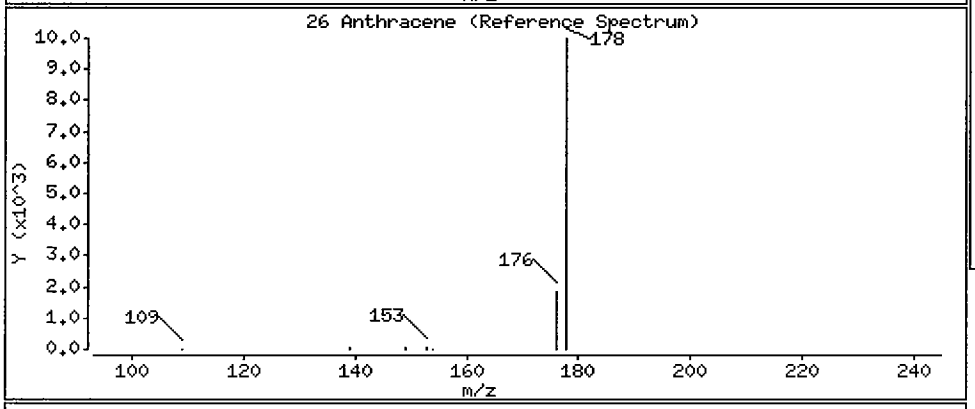
26 Anthracene Concentration: 1.6 ug/Kg

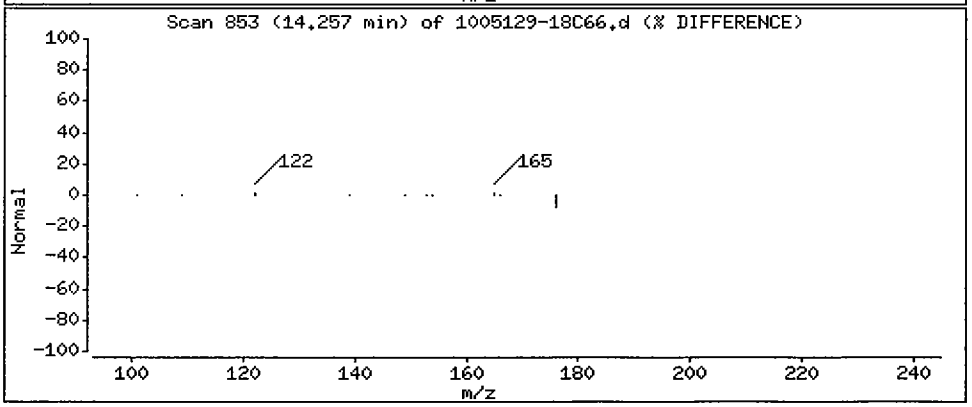












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

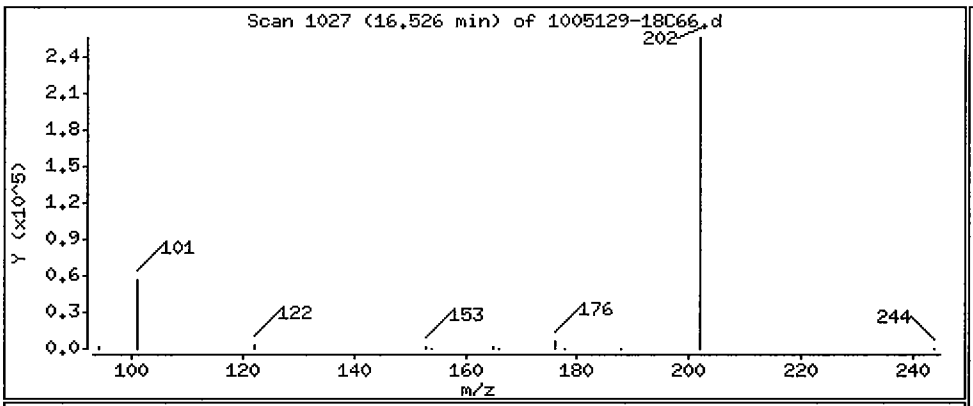
Client ID: SS89-0-1 Instrument: 5972hp66.i

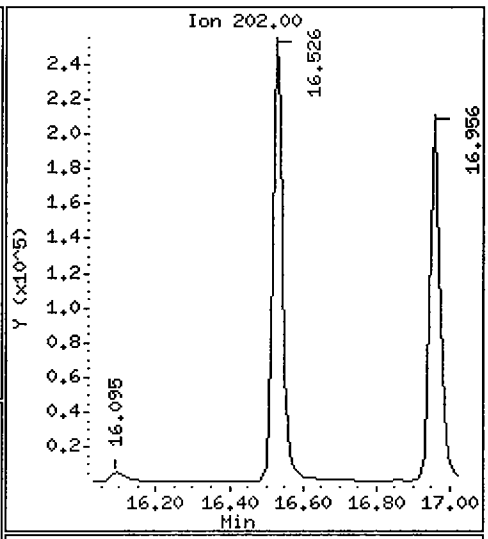
Sample Info: 1005129-18:2743

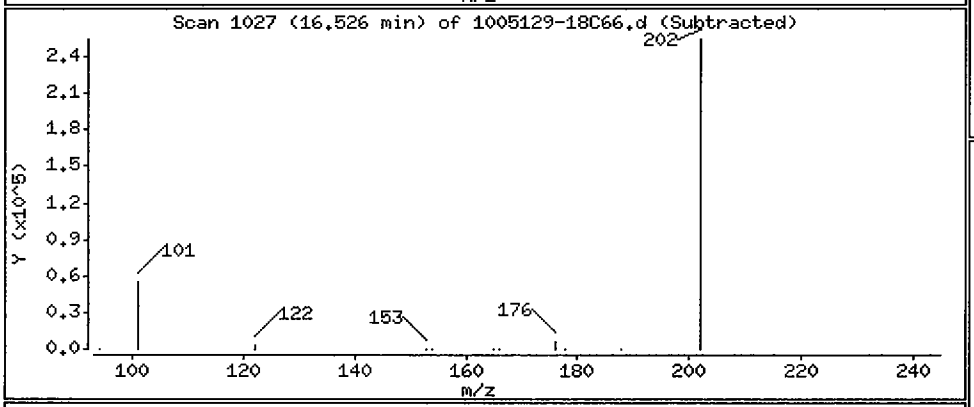
Volume Injected (uL): 2.0 Operator: 2743

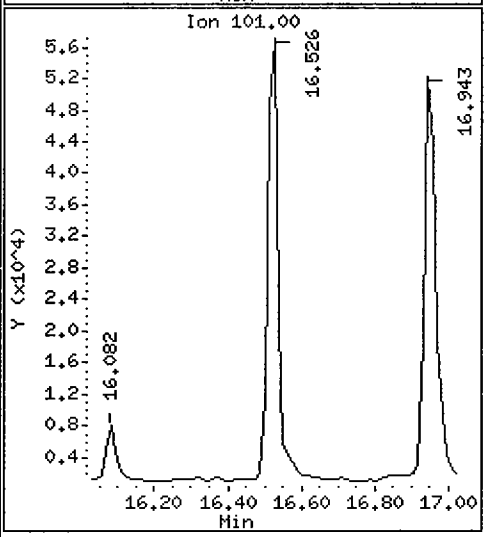
Column phase: Rtx-5MS Column diameter: 0.32

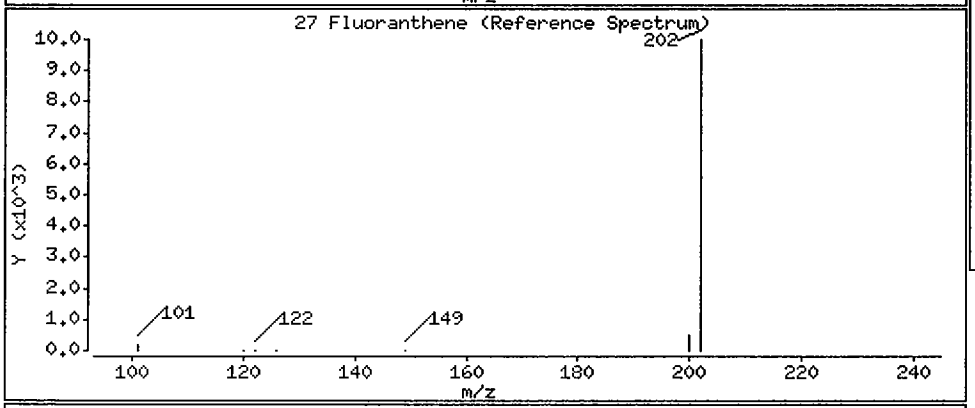
27 Fluoranthene Concentration: 69 ug/Kg

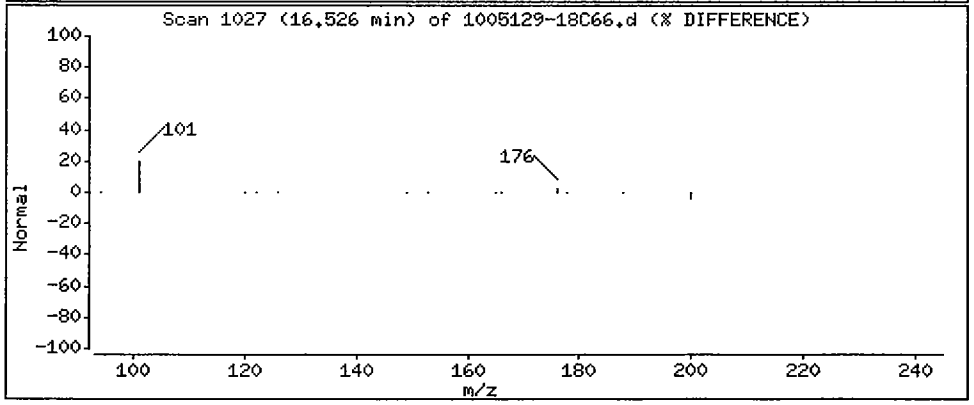












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

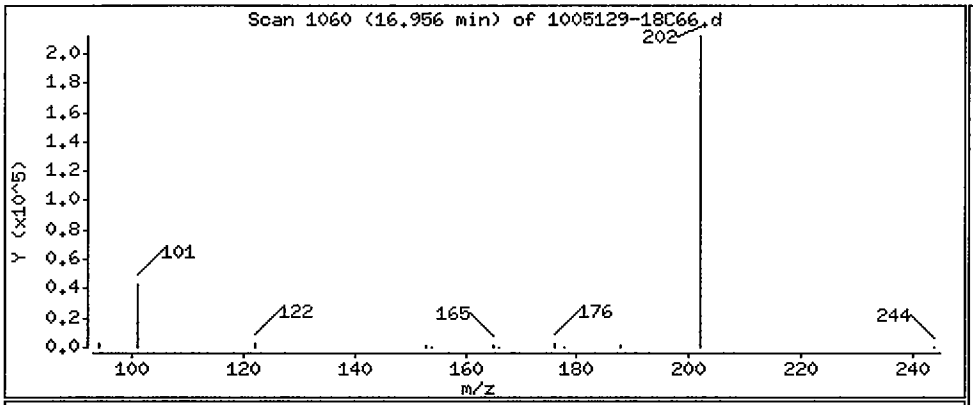
Client ID: SS89-0-1 Instrument: 5972hp66.i

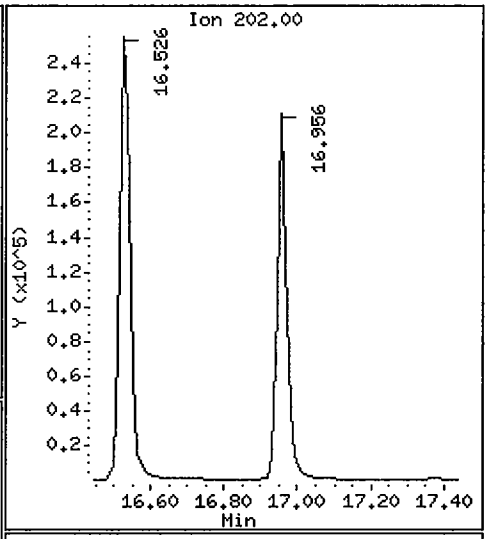
Sample Info: 1005129-18:2743

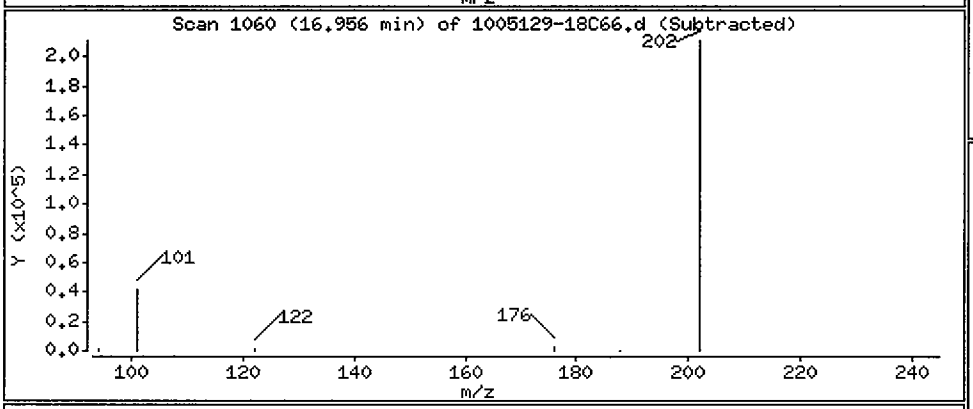
Volume Injected (uL): 2.0 Operator: 2743

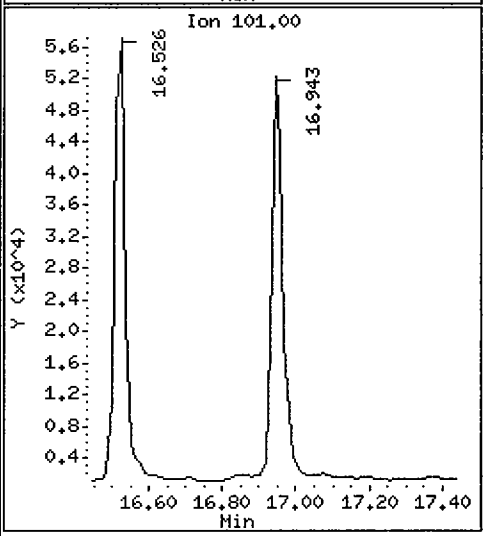
Column phase: Rtx-5MS Column diameter: 0.32

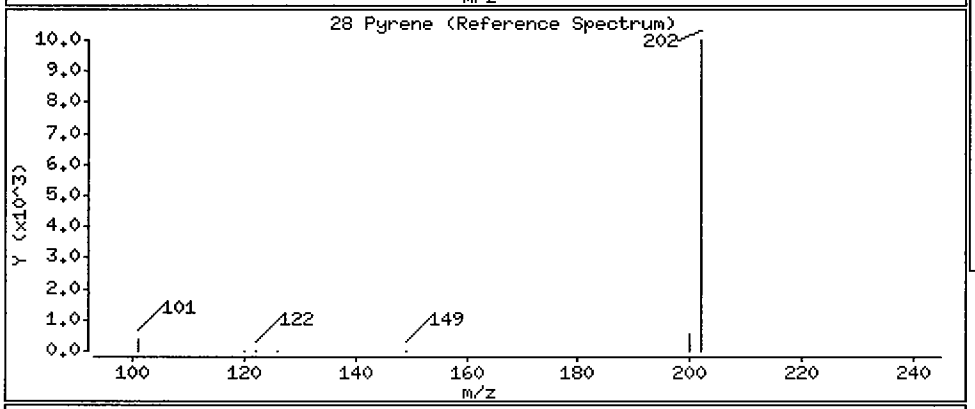
28 Pyrene Concentration: 52 ug/Kg

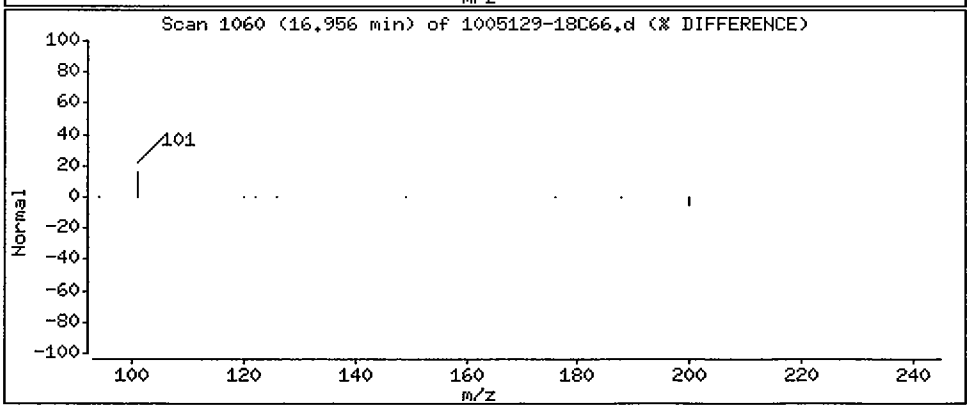












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

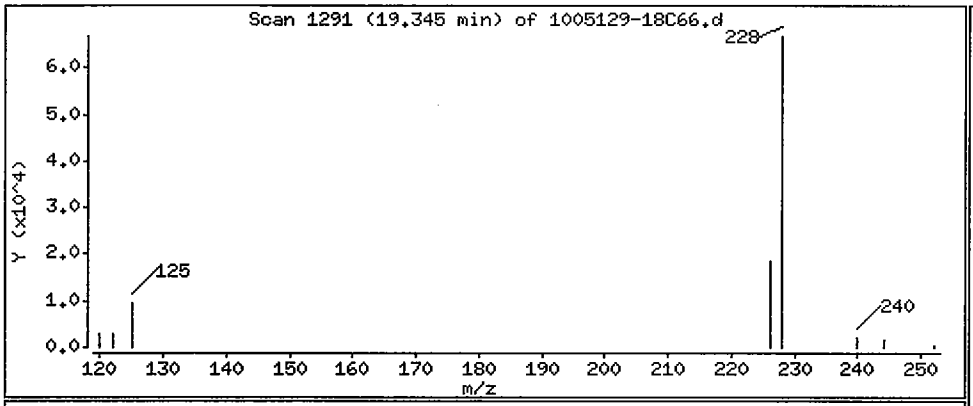
Client ID: SS89-0-1 Instrument: 5972hp66.i

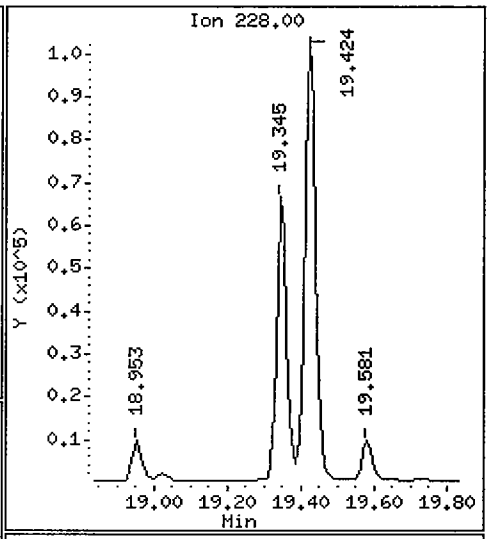
Sample Info: 1005129-18:2743

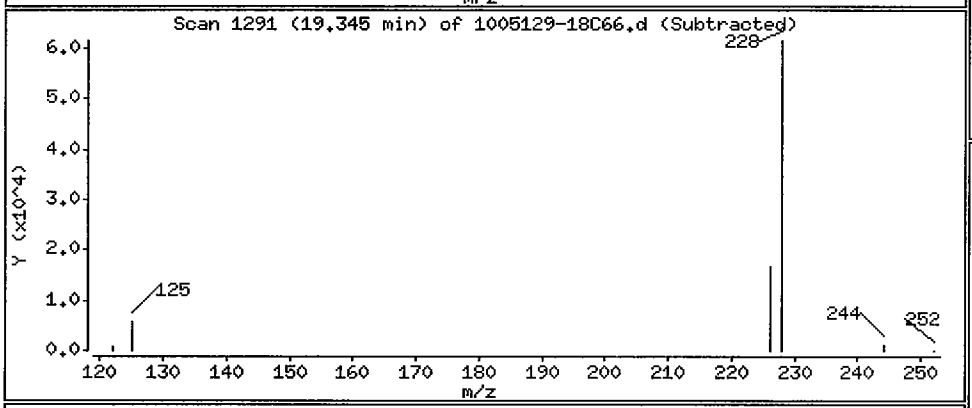
Volume Injected (uL): 2.0 Operator: 2743

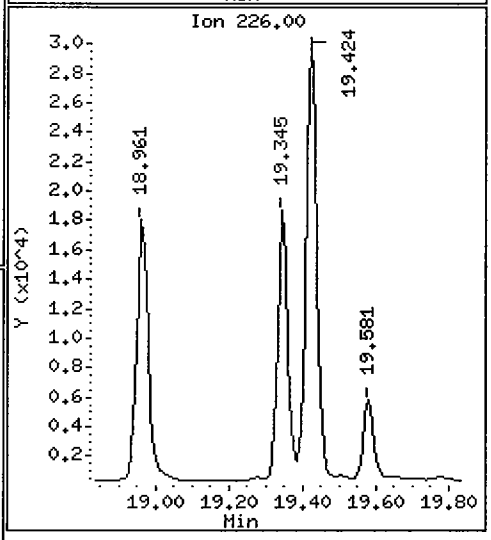
Column phase: Rtx-5MS Column diameter: 0.32

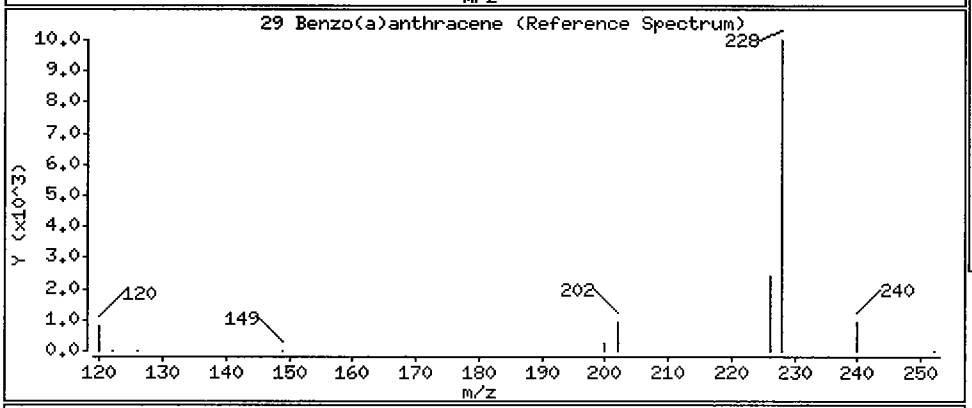
29 Benzo(a)anthracene Concentration: 22 ug/Kg

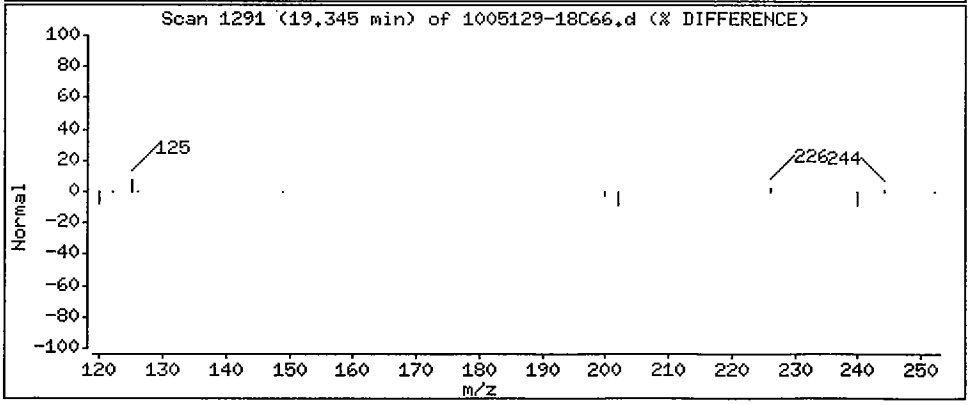












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

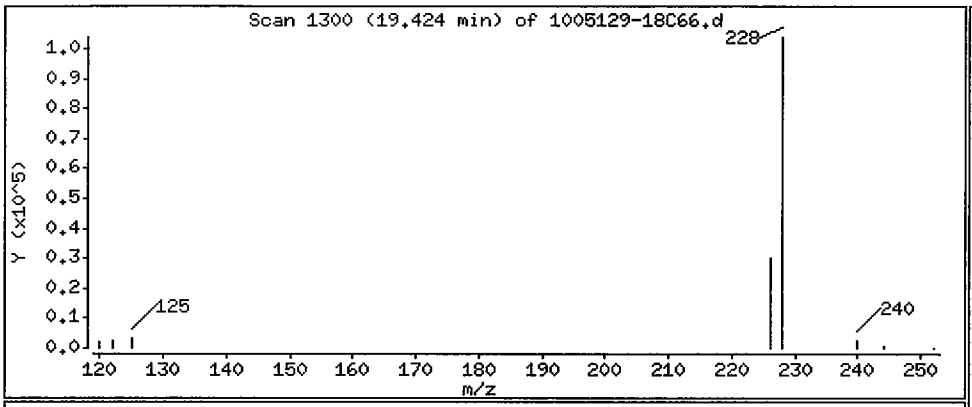
Client ID: SS89-0-1 Instrument: 5972hp66.i

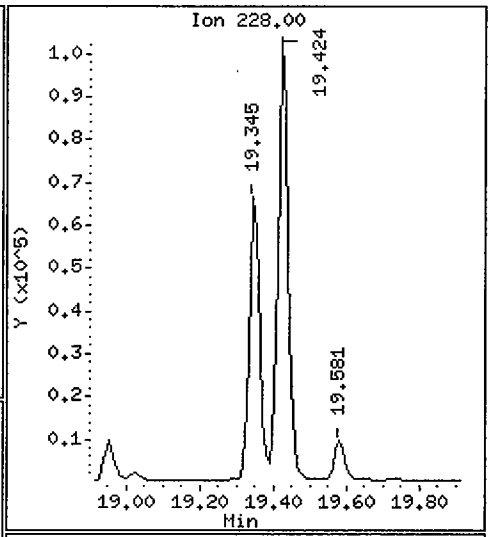
Sample Info: 1005129-18:2743

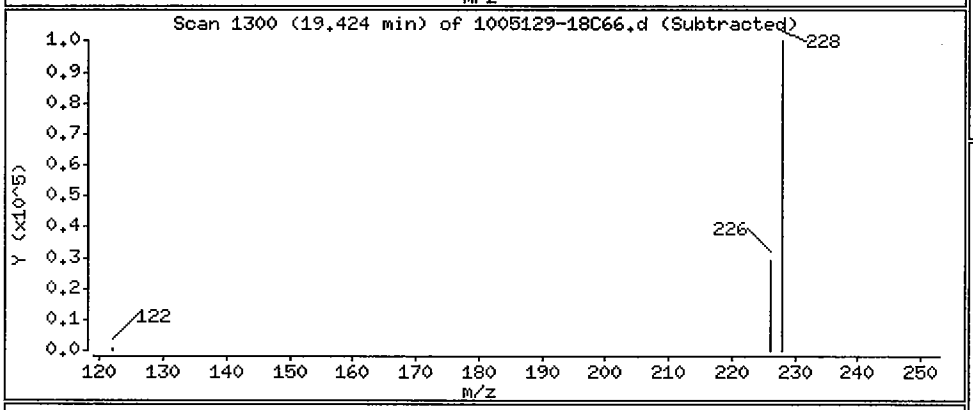
Volume Injected (uL): 2.0 Operator: 2743

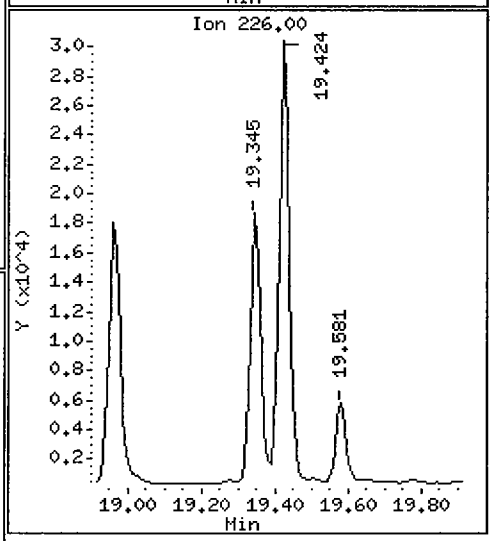
Column phase: Rtx-5MS Column diameter: 0.32

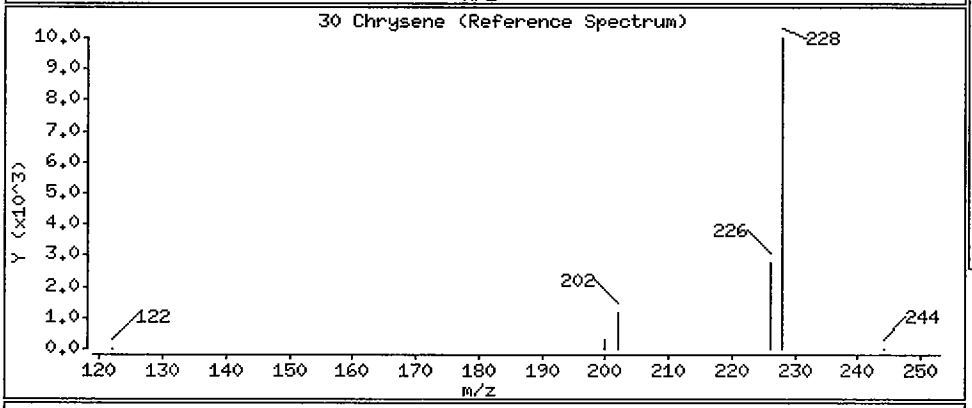
30 Chrysene Concentration: 32 ug/Kg

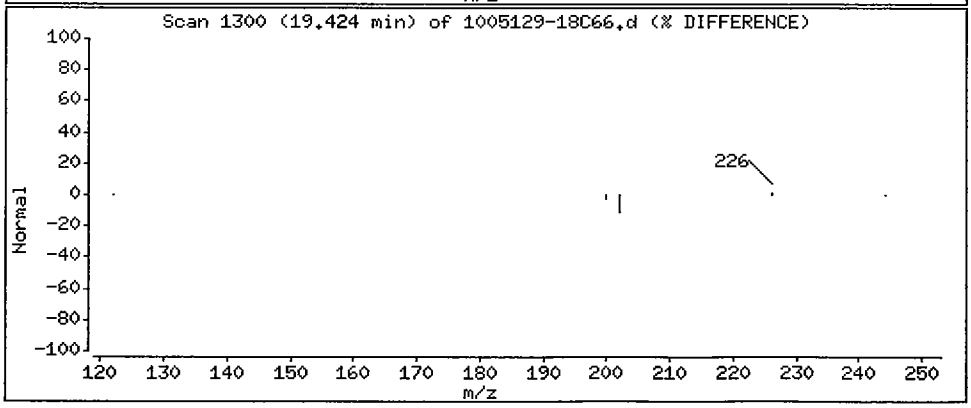












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

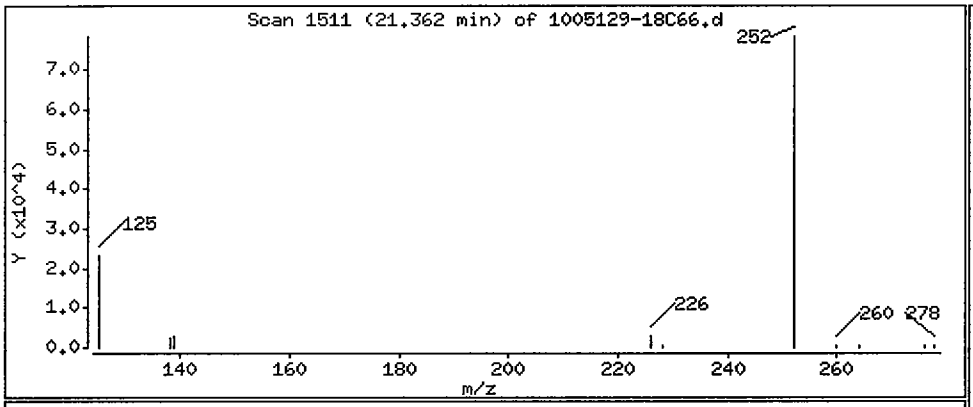
Client ID: SS89-0-1 Instrument: 5972hp66.i

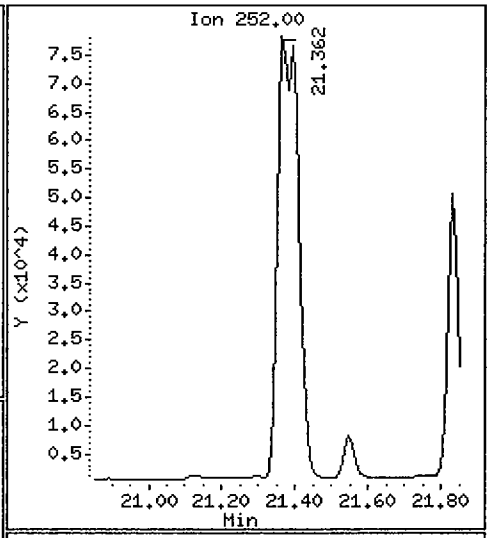
Sample Info: 1005129-18:2743

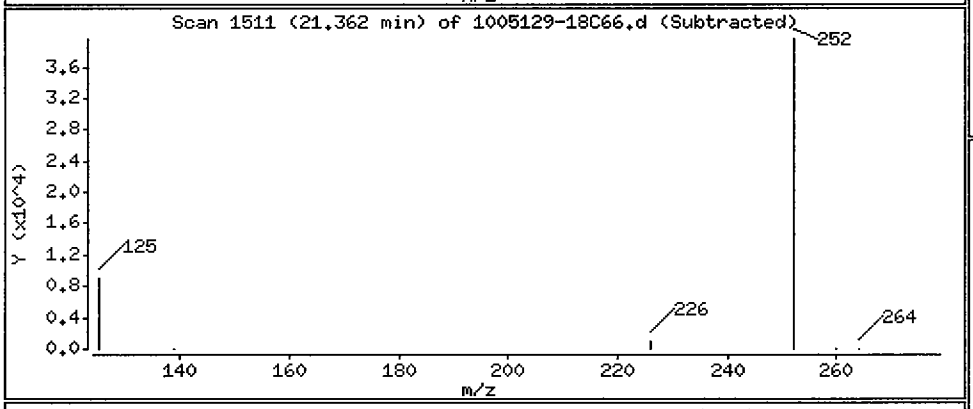
Volume Injected (uL): 2.0 Operator: 2743

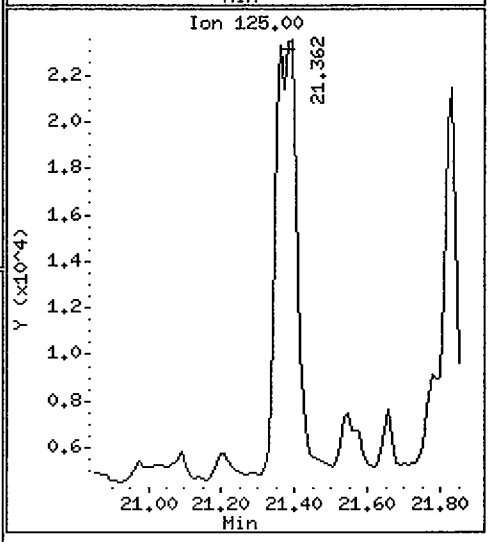
Column phase: Rtx-5MS Column diameter: 0.32

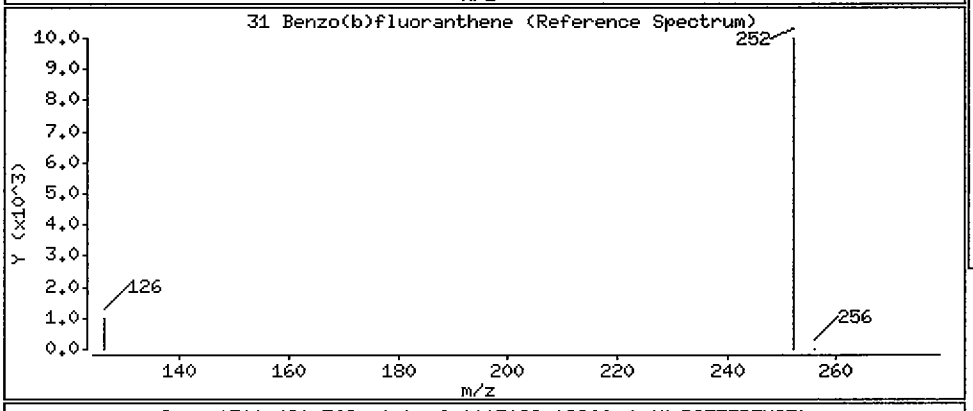
31 Benzo(b)fluoranthene Concentration: 36 ug/Kg

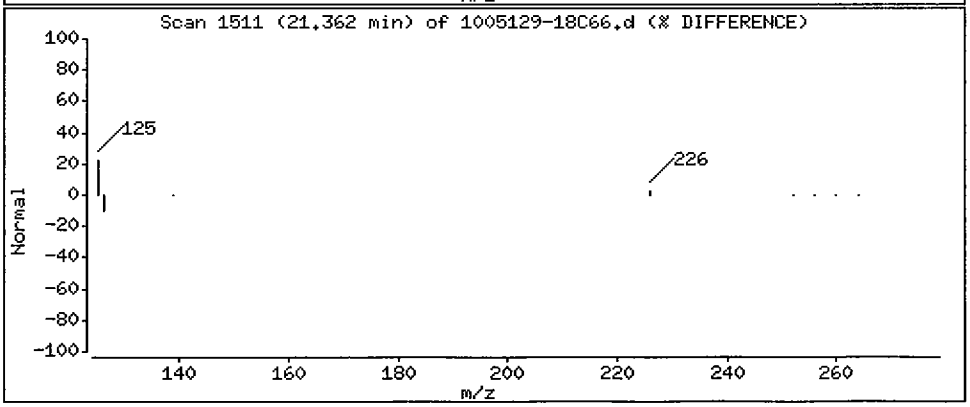












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

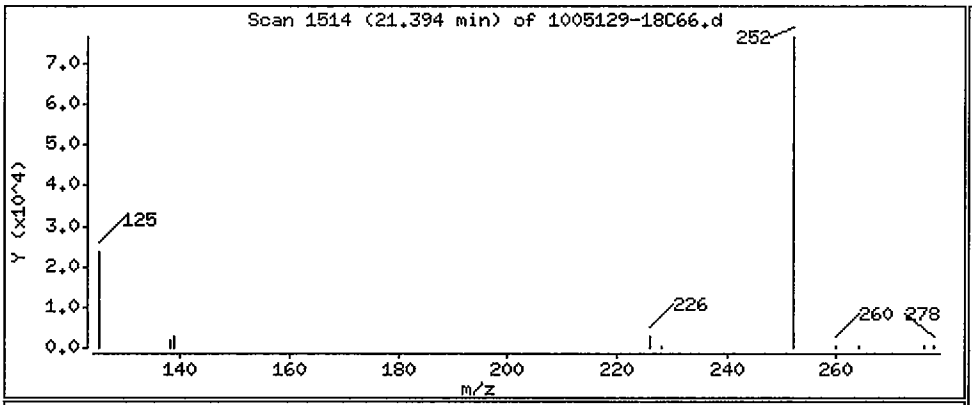
Client ID: SS89-0-1 Instrument: 5972hp66.i

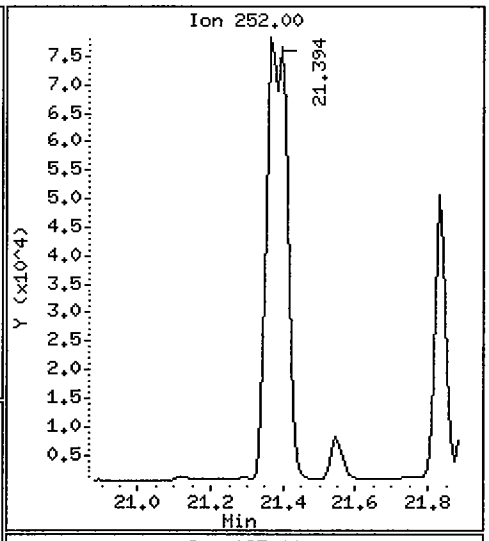
Sample Info: 1005129-18:2743

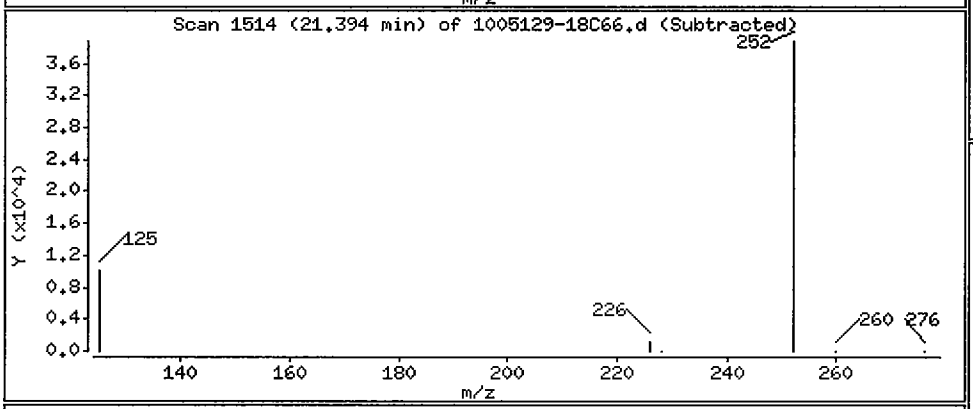
Volume Injected (uL): 2.0 Operator: 2743

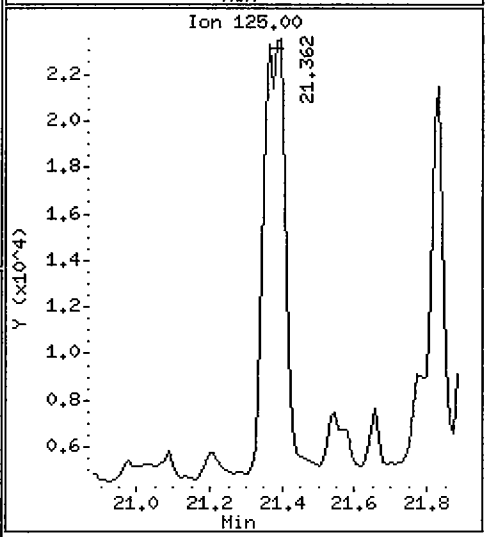
Column phase: Rtx-5MS Column diameter: 0.32

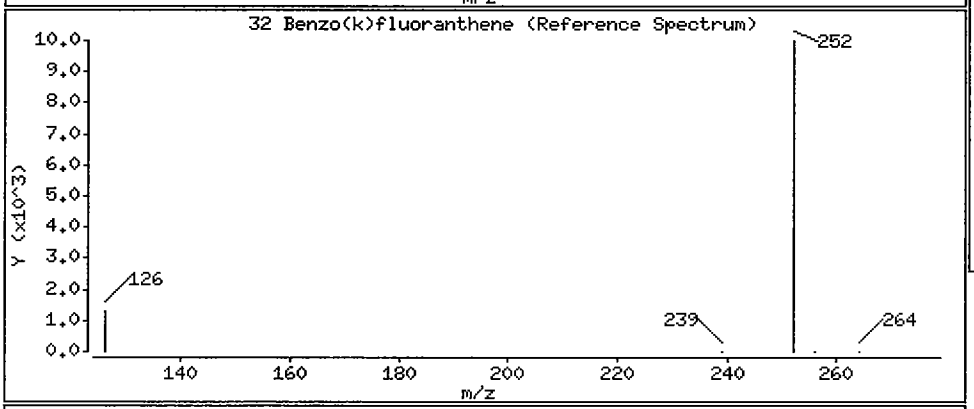
32 Benzo(k)fluoranthene Concentration: 32 ug/Kg

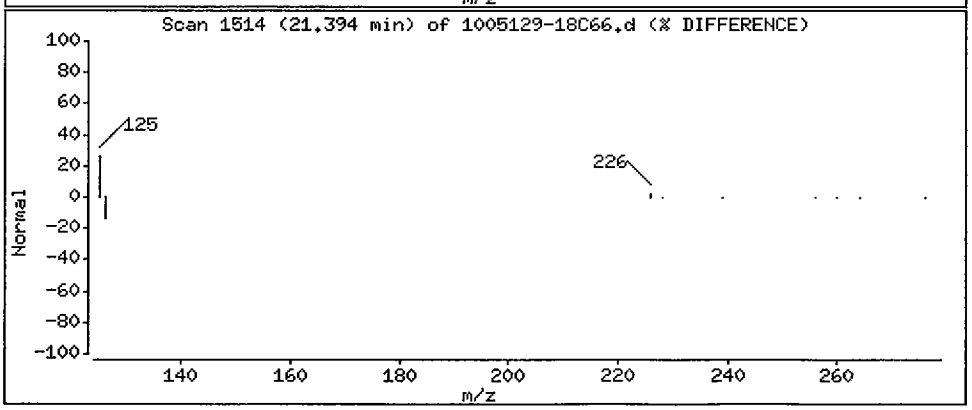












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

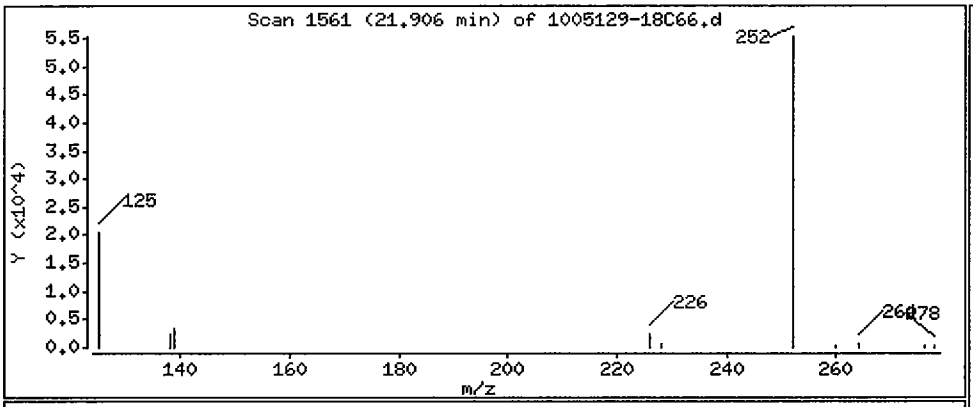
Client ID: SS89-0-1 Instrument: 5972hp66.i

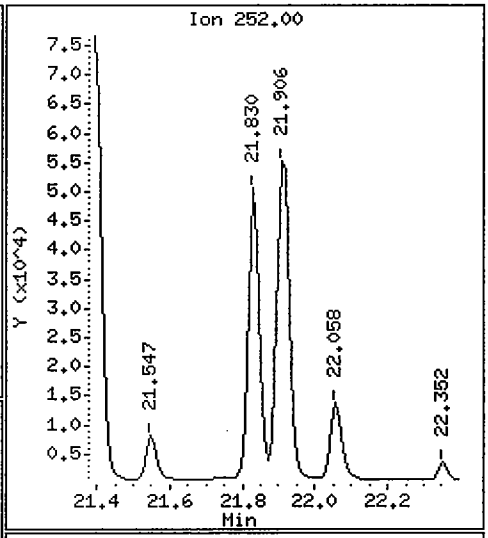
Sample Info: 1005129-18:2743

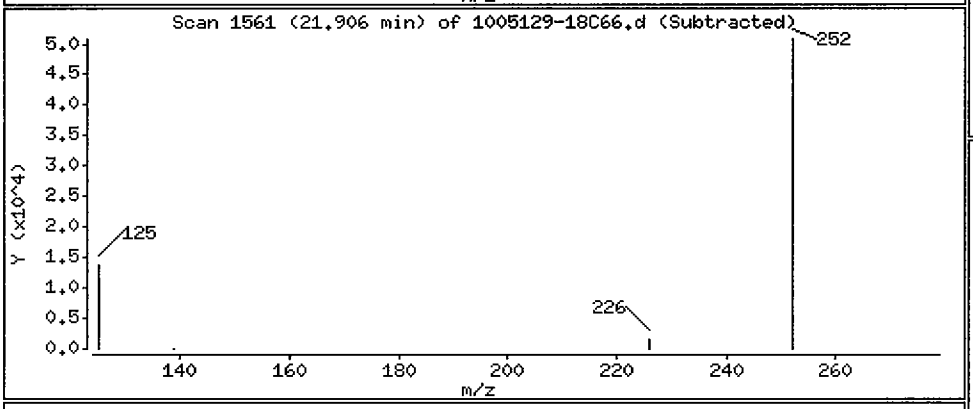
Volume Injected (uL): 2.0 Operator: 2743

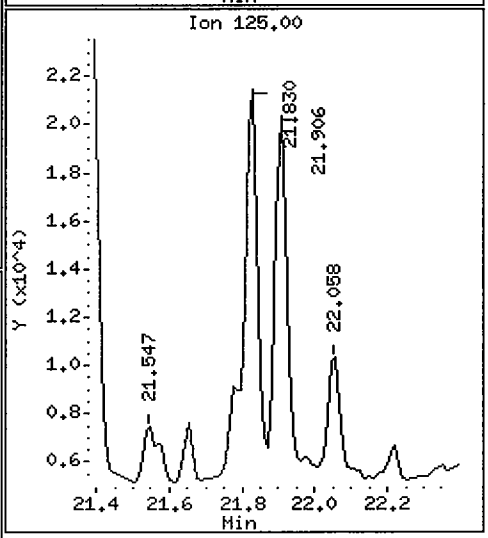
Column phase: Rtx-5MS Column diameter: 0.32

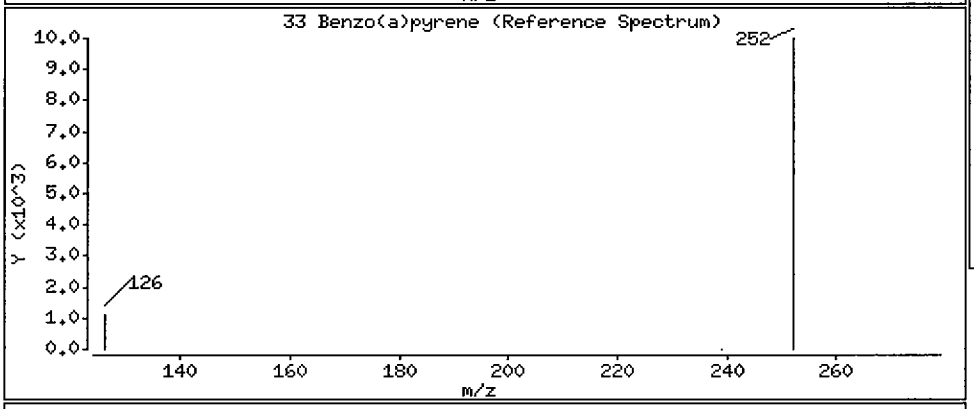
33 Benzo(a)pyrene Concentration: 27 ug/Kg

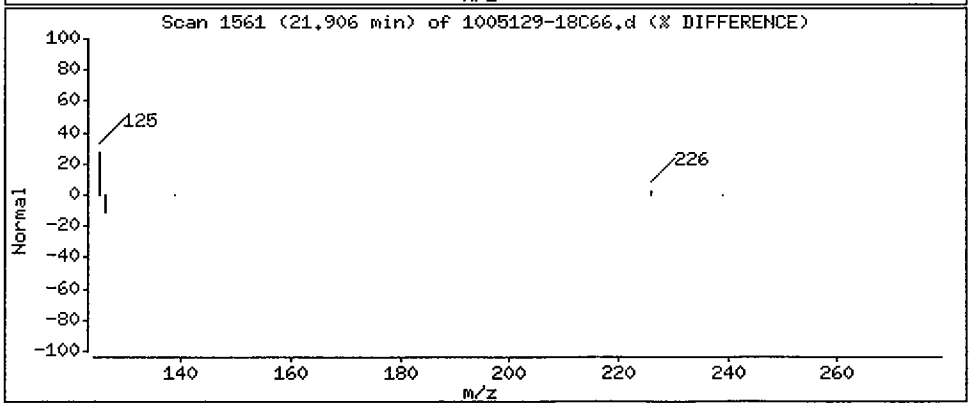












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

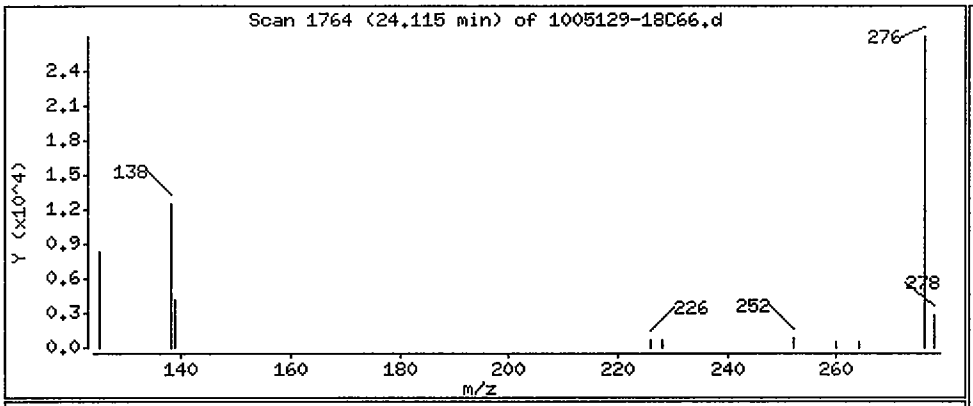
Client ID: SS89-0-1 Instrument: 5972hp66.i

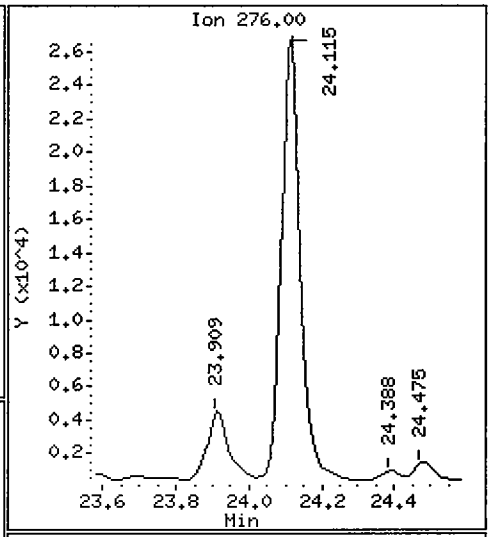
Sample Info: 1005129-18:2743

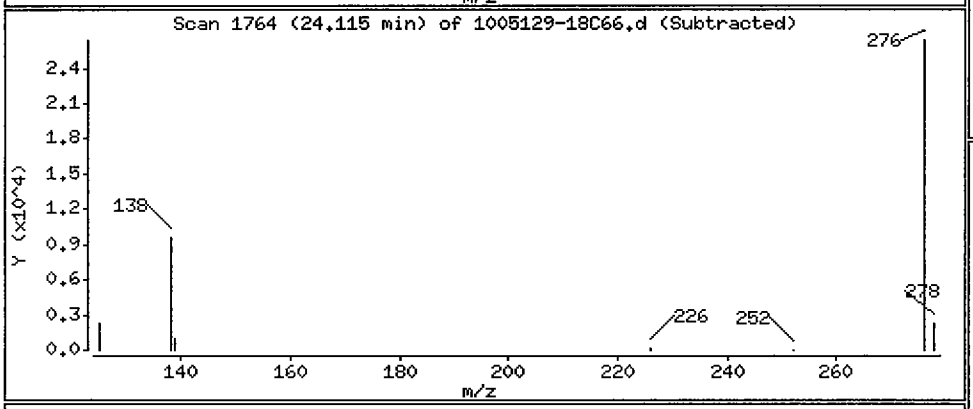
Volume Injected (uL): 2.0 Operator: 2743

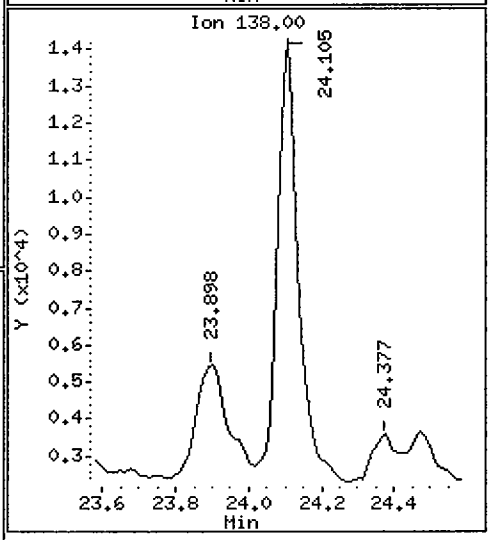
Column phase: Rtx-5MS Column diameter: 0.32

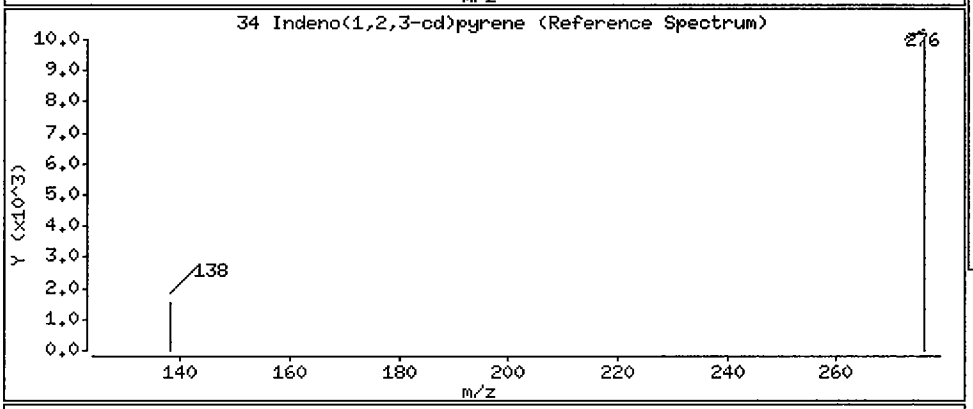
34 Indeno(1,2,3-cd)pyrene Concentration: 23 ug/Kg

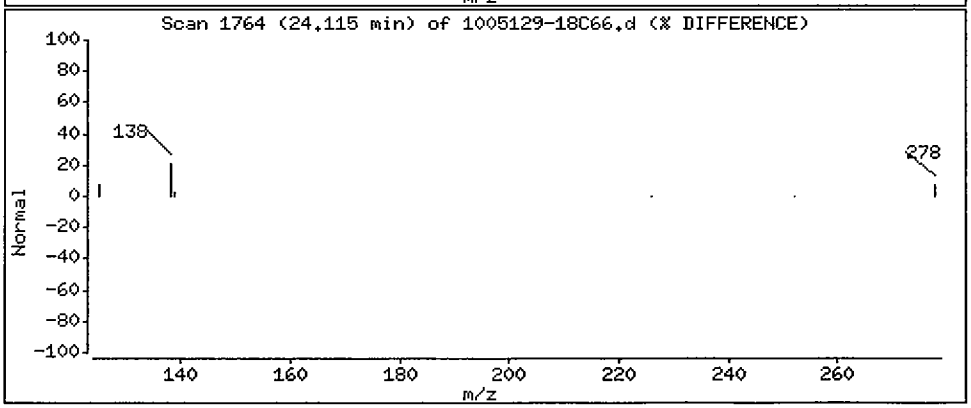












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

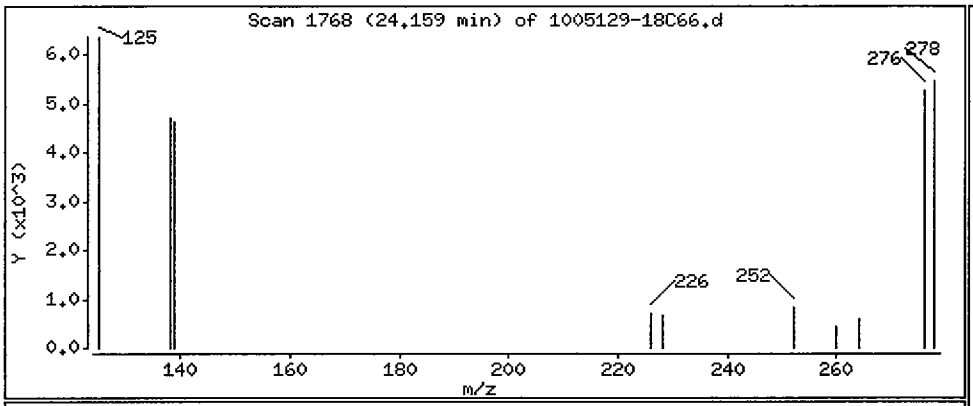
Client ID: SS89-0-1 Instrument: 5972hp66.i

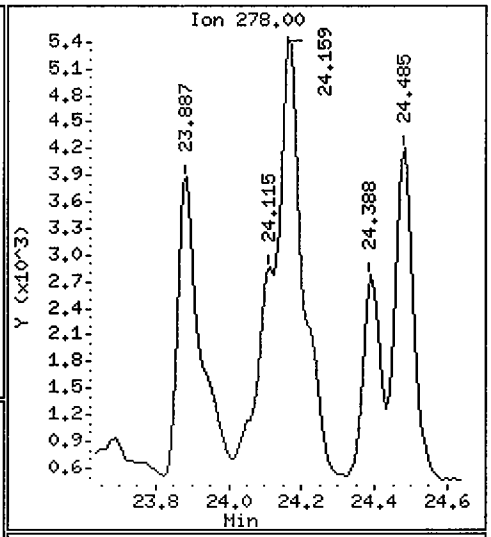
Sample Info: 1005129-18:2743

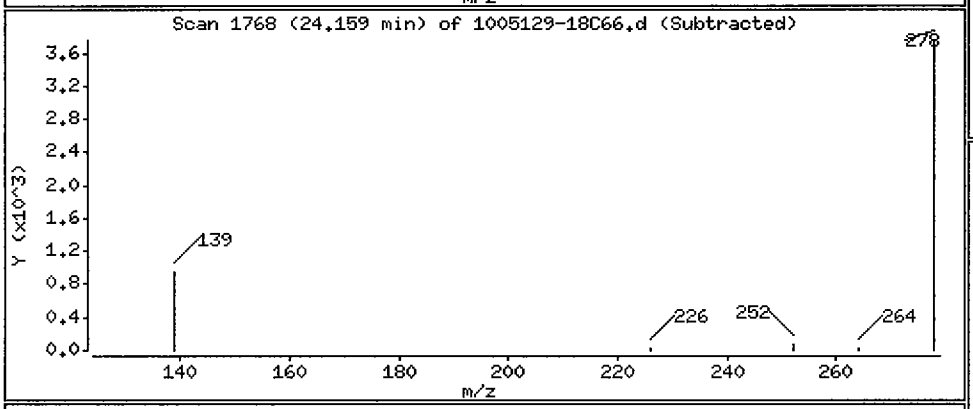
Volume Injected (uL): 2.0 Operator: 2743

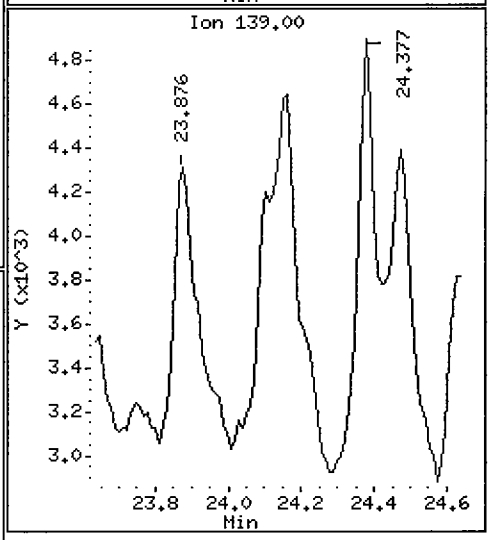
Column phase: Rtx-5MS Column diameter: 0.32

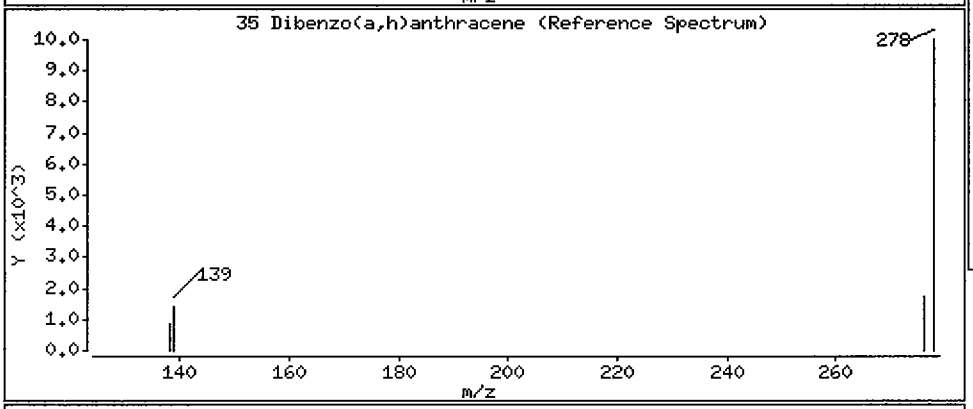
35 Dibenzo(a,h)anthracene Concentration: 5.8 ug/Kg

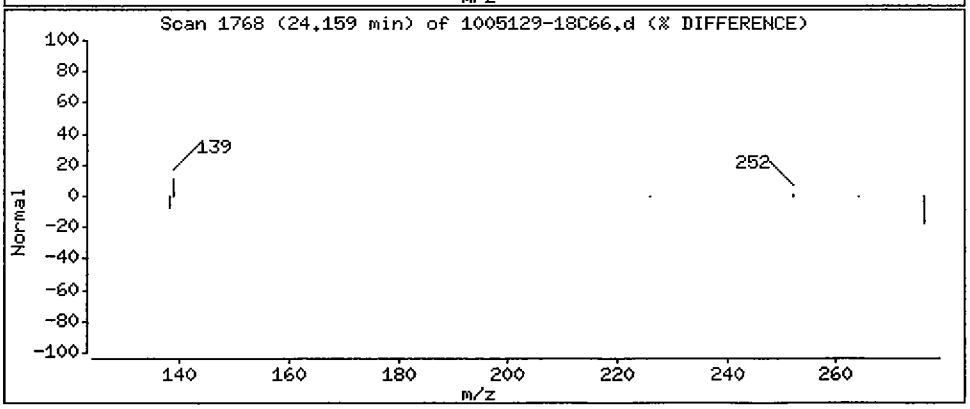












Data File: /chem/5972hp66.i/DS100527C66.b/1005129-18C66.d

Date : 28-MAY-2010 13:02

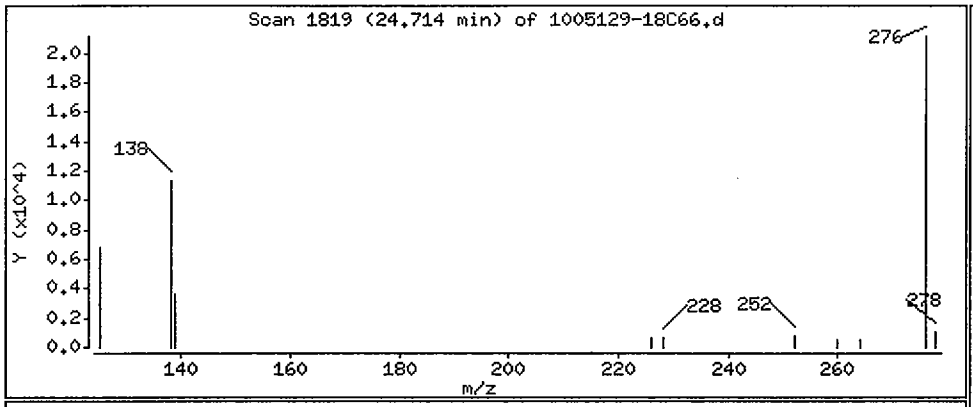
Client ID: SS89-0-1 Instrument: 5972hp66.i

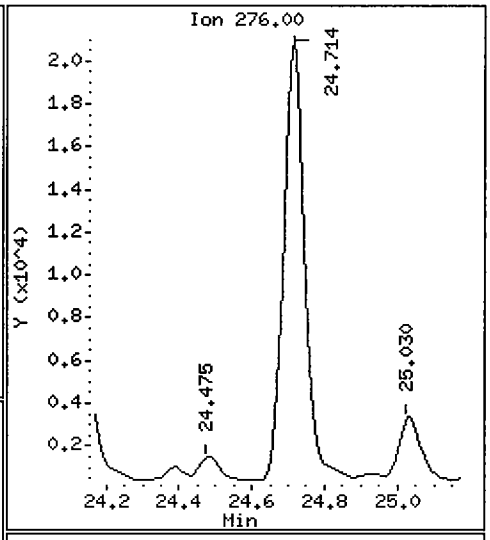
Sample Info: 1005129-18:2743

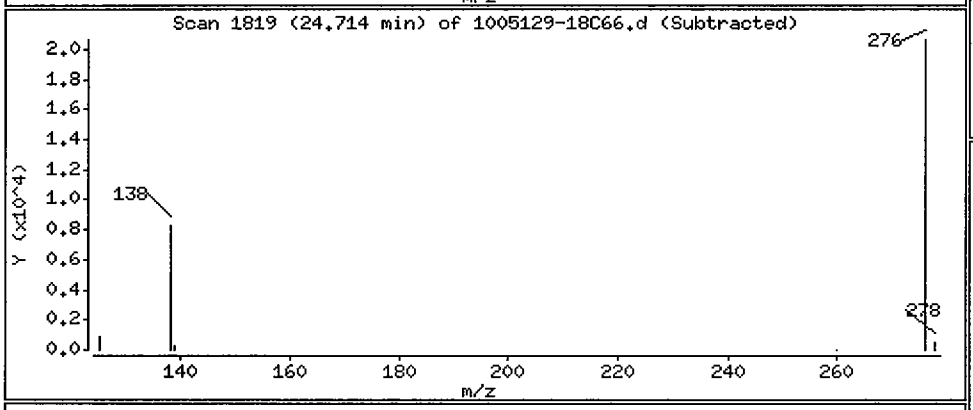
Volume Injected (uL): 2.0 Operator: 2743

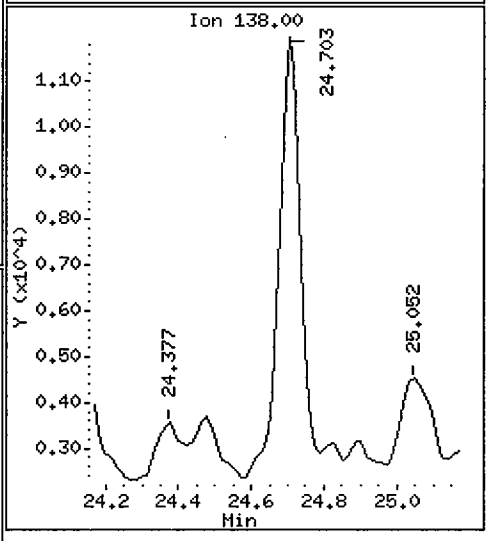
Column phase: Rtx-5MS Column diameter: 0.32

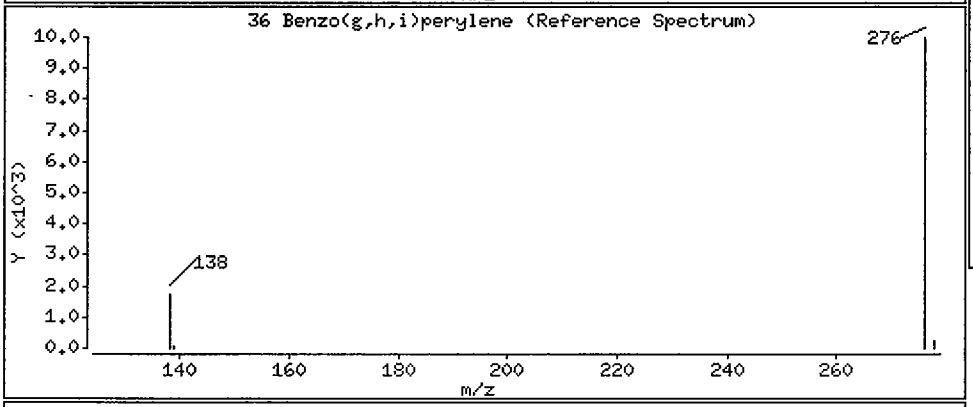
36 Benzo(g,h,i)perylene Concentration: 19 ug/Kg

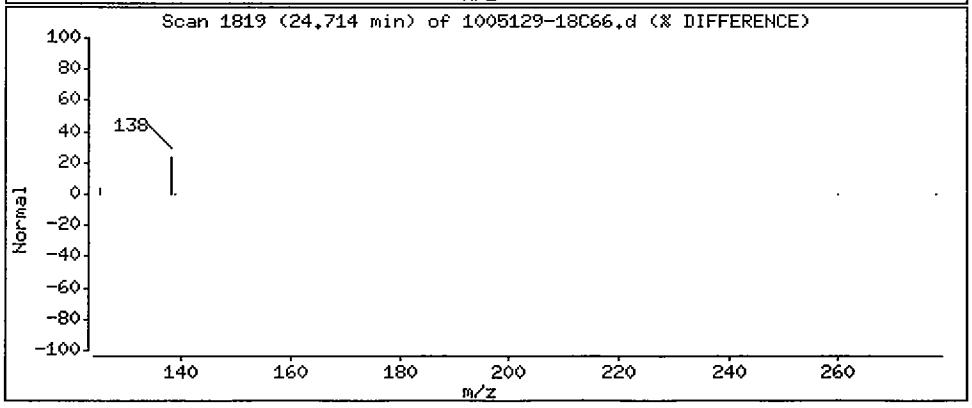












3. Standards Data

a. Initial Calibration Data (Form VI SV)

b. Continuing Calibration Data (Form VII SV)

a. Initial Calibration Data (Form VI SV)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Within each initial calibration, the standards are in order by level, from lowest to highest.

(1) Reconstructed Ion Chromatograms and quantitation reports for the initial (five-point) calibration. Spectra not required.

(2) EICPs displaying each manual integration.

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: 5972HP66 Calibration Date(s): 05/24/10 05/24/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0057 0313

LAB FILE ID: RF0.4: 0E24002-CALRF1.2: 0E24002-CALRF3: 0E24002-CAL3C
RF5: 0E24002-CAL4CRF10: 0E24002-CAL5

COMPOUND	RF0.4	RF1.2	RF3	RF5	RF10
Naphthalene	1.140	1.208	1.178	1.234	1.170
2-Methylnaphthalene	1.236	1.303	1.349	1.344	1.237
Acenaphthylene	1.990	2.024	2.160	2.224	2.204
Acenaphthene	1.228	1.226	1.245	1.282	1.237
Fluorene	0.692	0.561	0.684	0.672	0.562
Phenanthrene	1.023	0.854	0.924	0.926	0.768
Anthracene	0.871	0.722	0.852	0.859	0.724
Fluoranthene	1.023	0.824	0.964	0.875	0.746
Pyrene	1.105	0.896	1.044	0.960	0.812
Benzo(a)anthracene	0.815	0.627	0.786	0.765	0.684
Chrysene	0.979	0.793	0.858	0.814	0.689
Benzo(b)fluoranthene	1.042	0.832	1.035	0.961	0.866
Benzo(k)fluoranthene	1.079	0.906	1.031	1.044	0.894
Benzo(a)pyrene	0.830	0.679	0.874	0.875	0.785
Indeno(1,2,3-cd)pyrene	0.675	0.567	0.761	0.790	0.655
Dibenzo(a,h)anthracene	0.770	0.677	0.786	0.798	0.670
Benzo(g,h,i)perylene	0.867	0.761	0.862	0.842	0.669
Nitrobenzene-d5	0.383	0.417	0.404	0.442	0.435
2-Fluorobiphenyl	2.185	2.204	2.343	2.329	2.163
Terphenyl-d14	0.577	0.459	0.514	0.475	0.435

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: 5972HP66 Calibration Date(s): 05/24/10 05/24/10

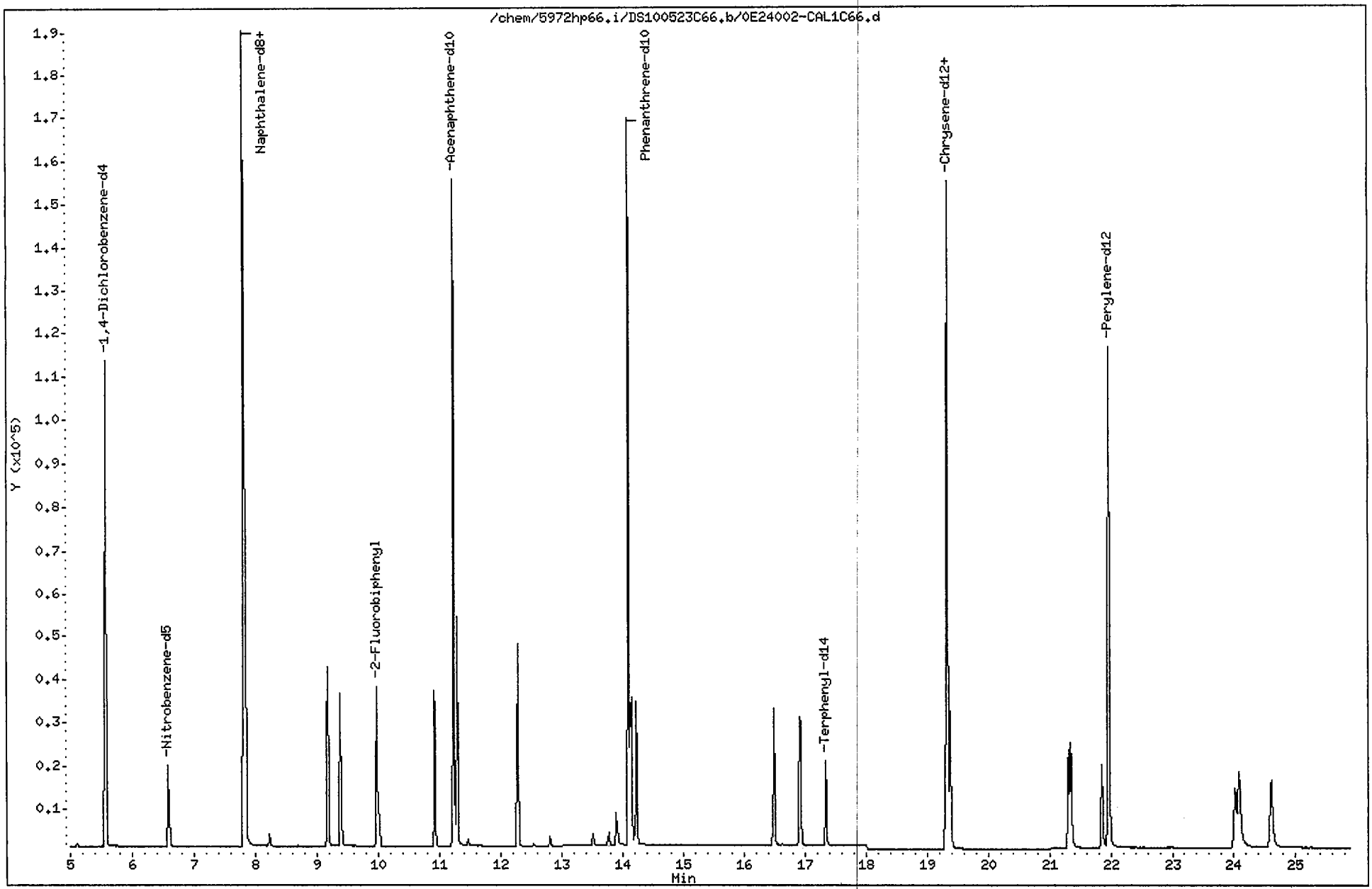
Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0057 0313

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	AVRG	1.18598682	3.053	15.000
2-Methylnaphthalene	AVRG	1.29395788	4.284	15.000
Acenaphthylene	AVRG	2.12052550	5.026	15.000
Acenaphthene	AVRG	1.24367251	1.837	30.000
Fluorene	AVRG	0.63437179	10.513	15.000
Phenanthrene	AVRG	0.89897800	10.537	15.000
Anthracene	AVRG	0.80556800	9.424	15.000
Fluoranthene	AVRG	0.88627490	12.417	30.000
Pyrene	AVRG	0.96345877	12.041	15.000
Benzo(a)anthracene	AVRG	0.73545617	10.568	15.000
Chrysene	AVRG	0.82673511	12.747	15.000
Benzo(b)fluoranthene	AVRG	0.94712927	10.142	15.000
Benzo(k)fluoranthene	AVRG	0.99080153	8.560	15.000
Benzo(a)pyrene	AVRG	0.80855080	10.025	30.000
Indeno(1,2,3-cd)pyrene	AVRG	0.68964695	12.940	15.000
Dibenzo(a,h)anthracene	AVRG	0.74019417	8.311	15.000
Benzo(g,h,i)perylene	AVRG	0.80002540	10.599	15.000
Nitrobenzene-d5	AVRG	0.41644273	5.700	15.000
2-Fluorobiphenyl	AVRG	2.24510440	3.777	15.000
Terphenyl-d14	AVRG	0.49192158	11.239	15.000

FORM VI SV

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL1C66.d
Date : 24-MAY-2010 02:05
Client ID: SSTD0.40Y1
Sample Info: SSTD0.40Y1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL1C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL1C66.d
Lab Smp Id: 0E24002-CAL1 Client Smp ID: SSTD0.40Y1
Inj Date : 24-MAY-2010 02:05
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD0.40Y1:2743
Misc Info : SSTD0.40Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 02:05 Cal File: 0E24002-CAL1C66.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

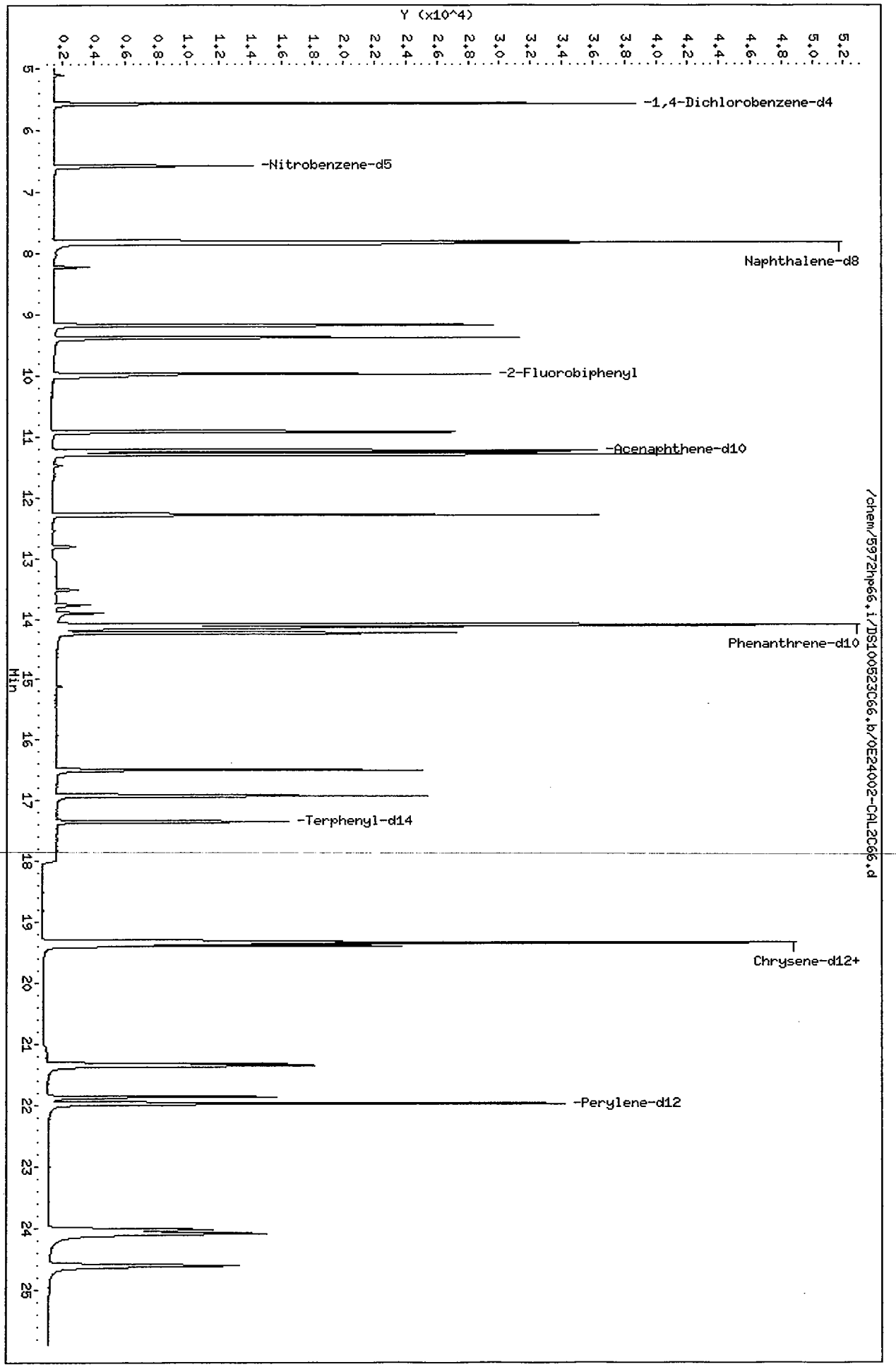
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.570	5.572	(1.000)	68855	2.00000	
*	2 Naphthalene-d8	136	7.812	7.814	(1.000)	258992	2.00000	
*	3 Acenaphthene-d10	164	11.230	11.230	(1.000)	118252	2.00000	
*	4 Phenanthrene-d10	188	14.101	14.101	(1.000)	237833	2.00000	
*	5 Chrysene-d12	240	19.335	19.344	(1.000)	204047	2.00000	
*	6 Perylene-d12	264	21.972	21.971	(1.000)	175711	2.00000	
$	9 Nitrobenzene-d5	82	6.587	6.576	(0.843)	19855	0.40000	0.37
$	10 2-Fluorobiphenyl	172	9.976	9.978	(0.888)	51684	0.40000	0.39
$	12 Terphenyl-d14	244	17.347	17.347	(0.897)	23531	0.40000	0.47
	13 Naphthalene	128	7.852	7.853	(1.005)	59031	0.40000	0.38
	15 2-Methylnaphthalene	141	9.181	9.170	(0.818)	29233	0.40000	0.38
	17 Acenaphthylene	152	10.917	10.917	(0.972)	47070	0.40000	0.38
	18 Acenaphthene	154	11.295	11.295	(1.006)	29046	0.40000	0.40
	21 Fluorene	166	12.286	12.285	(0.871)	32934	0.40000	0.44
	25 Phenanthrene	178	14.153	14.153	(1.004)	48665	0.40000	0.46

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL1C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	41454	0.40000	0.43
27 Fluoranthene	202	16.500	16.500	(0.853)	41741	0.40000	0.46
28 Pyrene	202	16.930	16.930	(0.876)	45079	0.40000	0.46
29 Benzo(a)anthracene	228	19.309	19.309	(0.999)	33251	0.40000	0.44
30 Chrysene	228	19.388	19.388	(1.003)	39954	0.40000	0.47
31 Benzo(b)fluoranthene	252	21.319	21.318	(0.970)	36625	0.40000	0.44
32 Benzo(k)fluoranthene	252	21.352	21.362	(0.972)	37923	0.40000	0.44
33 Benzo(a)pyrene	252	21.863	21.863	(0.995)	29153	0.40000	0.41
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.029	(1.093)	23710	0.40000	0.39
35 Dibenzo(a,h)anthracene	278	24.084	24.083	(1.096)	27054	0.40000	0.42
36 Benzo(g,h,i)perylene	276	24.606	24.616	(1.120)	30466	0.40000	0.43

MW 5/24/10


Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d
Date : 24-MAY-2010 03:13
Client ID: SSTD1.20Y1
Sample Info: SSTD1.20Y1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^4)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
Phenanthrene-d10
-Terphenyl-d14
Chrysene-d12+
-Perylene-d12
Min
/chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d
Lab Smp Id: 0E24002-CAL2 Client Smp ID: SSTD1.20Y1
Inj Date : 24-MAY-2010 03:13
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD1.20Y1:2743
Misc Info : SSTD1.20Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 03:13 Cal File: 0E24002-CAL2C66.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

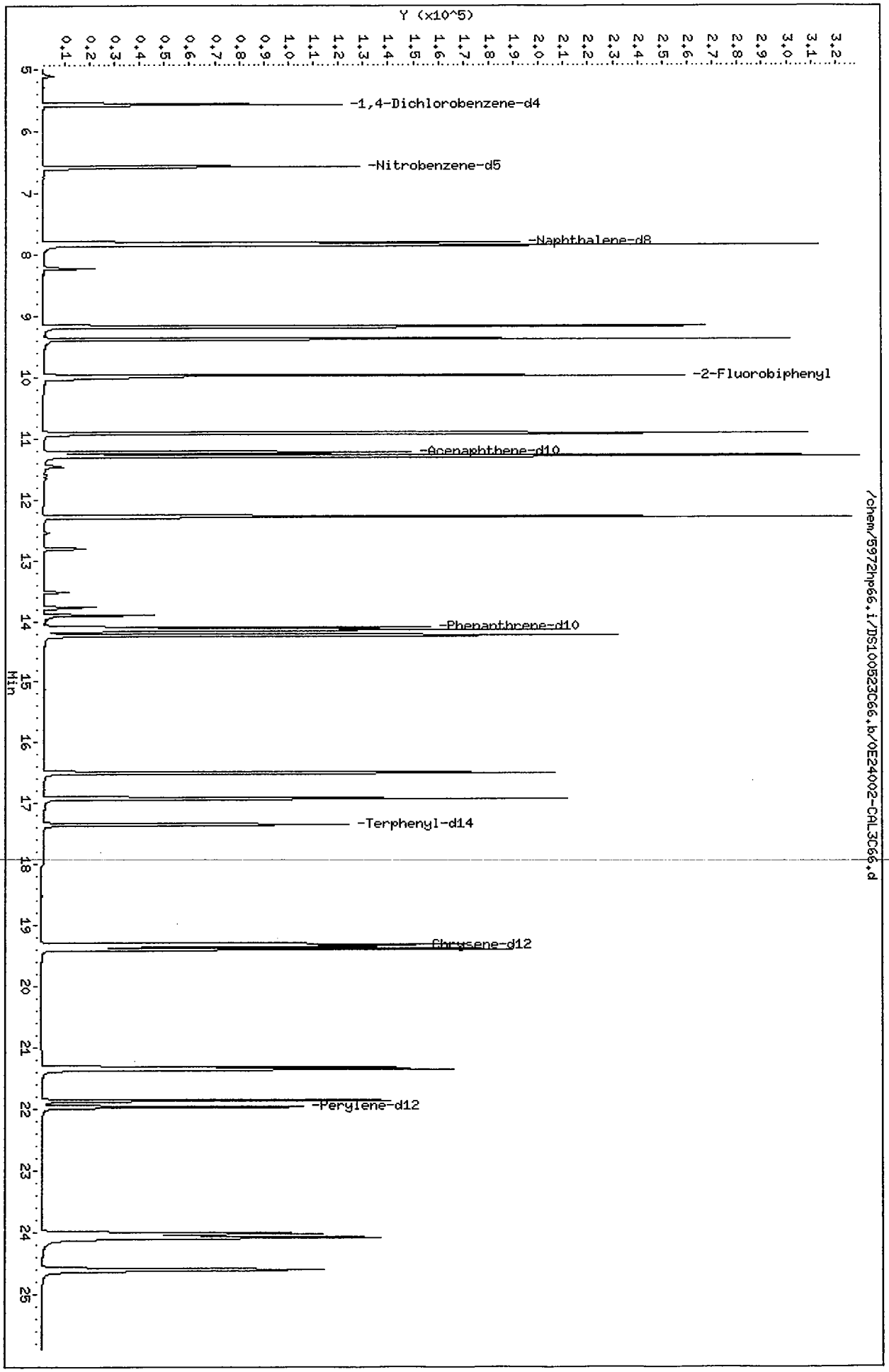
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.574	5.572	(1.000)	21366	2.00000	
* 2 Naphthalene-d8	136	7.816	7.814	(1.000)	64803	2.00000	
* 3 Acenaphthene-d10	164	11.231	11.230	(1.000)	29430	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	73585	2.00000	
* 5 Chrysene-d12	240	19.335	19.344	(1.000)	63396	2.00000	
* 6 Perylene-d12	264	21.972	21.971	(1.000)	54007	2.00000	
$ 9 Nitrobenzene-d5	82	6.590	6.576	(0.843)	16228	1.20000	1.2
$ 10 2-Fluorobiphenyl	172	9.979	9.978	(0.889)	38922	1.20000	1.2
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	17470	1.20000	1.1
13 Naphthalene	128	7.855	7.853	(1.005)	46976	1.20000	1.2
15 2-Methylnaphthalene	141	9.184	9.170	(0.818)	23006	1.20000	1.2
17 Acenaphthylene	152	10.918	10.917	(0.972)	35748	1.20000	1.1
18 Acenaphthene	154	11.296	11.295	(1.006)	21643	1.20000	1.2
21 Fluorene	166	12.286	12.285	(0.871)	24780	1.20000	1.1
25 Phenanthrene	178	14.153	14.153	(1.004)	37698	1.20000	1.1

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	31860	1.20000	1.1
27 Fluoranthene	202	16.500	16.500	(0.853)	31352	1.20000	1.1
28 Pyrene	202	16.930	16.930	(0.876)	34081	1.20000	1.1
29 Benzo(a)anthracene	228	19.309	19.309	(0.999)	23841	1.20000	1.0
30 Chrysene	228	19.388	19.388	(1.003)	30176	1.20000	1.2
31 Benzo(b)fluoranthene	252	21.319	21.318	(0.970)	26949	1.20000	1.1
32 Benzo(k)fluoranthene	252	21.363	21.362	(0.972)	29372	1.20000	1.1
33 Benzo(a)pyrene	252	21.863	21.863	(0.995)	22018	1.20000	1.0
34 Indeno(1,2,3-cd)pyrene	276	24.029	24.029	(1.094)	18366	1.20000	0.99
35 Dibenzo(a,h)anthracene	278	24.084	24.083	(1.096)	21943	1.20000	1.1
36 Benzo(g,h,i)perylene	276	24.606	24.616	(1.120)	24658	1.20000	1.1

MV 5/24/10


Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d
Date : 24-MAY-2010 00:57
Client ID: SSTD3,00Y1
Sample Info: SSTD3,00Y1,2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^5)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
Chrysene-d12
-Perylene-d12
Min
/chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d
Lab Smp Id: 0E24002-CAL3 Client Smp ID: SSTD3.00Y1
Inj Date : 24-MAY-2010 00:57
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00Y1:2743
Misc Info : SSTD3.00Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 00:57 Cal File: 0E24002-CAL3C66.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

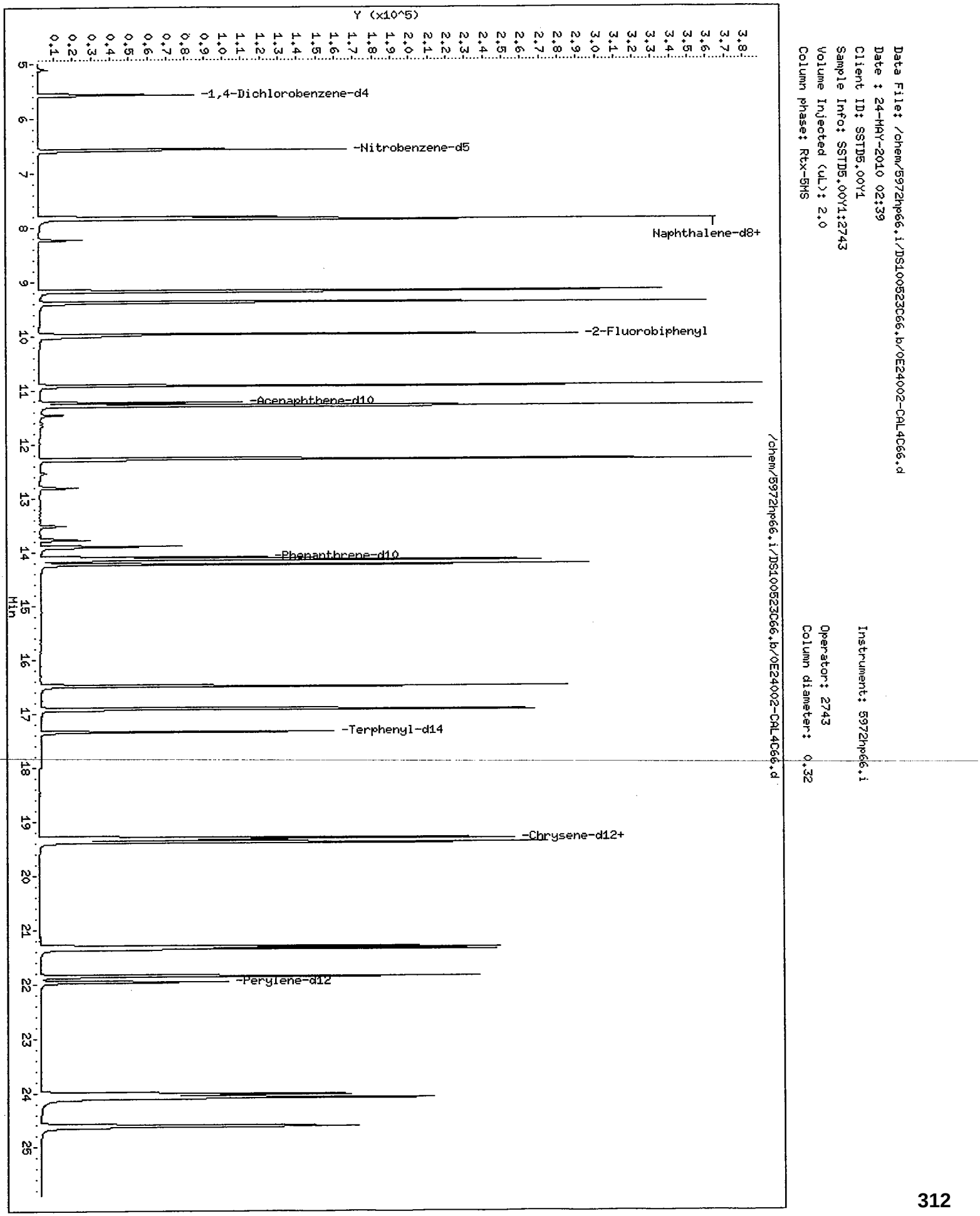
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.571	5.572	(1.000)	69281	2.00000	
* 2 Naphthalene-d8	136	7.813	7.814	(1.000)	243445	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.230	(1.000)	106660	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	220534	2.00000	
* 5 Chrysene-d12	240	19.336	19.344	(1.000)	185344	2.00000	
* 6 Perylene-d12	264	21.961	21.971	(1.000)	153215	2.00000	
$ 9 Nitrobenzene-d5	82	6.574	6.576	(0.841)	147663	3.00000	2.9
$ 10 2-Fluorobiphenyl	172	9.976	9.978	(0.888)	374921	3.00000	3.1
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	142827	3.00000	3.1
13 Naphthalene	128	7.852	7.853	(1.005)	430380	3.00000	3.0
15 2-Methylnaphthalene	141	9.168	9.170	(0.816)	215875	3.00000	3.1
17 Acenaphthylene	152	10.918	10.917	(0.972)	345534	3.00000	3.1
18 Acenaphthene	154	11.296	11.295	(1.006)	199235	3.00000	3.0
21 Fluorene	166	12.286	12.285	(0.871)	226363	3.00000	3.2
25 Phenanthrene	178	14.153	14.153	(1.004)	305721	3.00000	3.1

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	281799	3.00000	3.2
27 Fluoranthene	202	16.500	16.500	(0.853)	267962	3.00000	3.3
28 Pyrene	202	16.917	16.930	(0.875)	290331	3.00000	3.3
29 Benzo(a)anthracene	228	19.310	19.309	(0.999)	218625	3.00000	3.2
30 Chrysene	228	19.389	19.388	(1.003)	238695	3.00000	3.1
31 Benzo(b)fluoranthene	252	21.319	21.318	(0.971)	237900	3.00000	3.3
32 Benzo(k)fluoranthene	252	21.351	21.362	(0.972)	236893	3.00000	3.1
33 Benzo(a)pyrene	252	21.863	21.863	(0.996)	200781	3.00000	3.2
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.029	(1.094)	174972	3.00000	3.3
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.097)	180592	3.00000	3.2
36 Benzo(g,h,i)perylene	276	24.606	24.616	(1.120)	197994	3.00000	3.2

MV 5/24/10


Data File: /chem/5972hp66.i/DS100523066.b/0E24002-CAL4C66.d
Date : 24-MAY-2010 02:39
Client ID: SSTD5.00Y1
Sample Info: SSTD5.00Y1;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^5)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8+
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
Min
/chem/5972hp66.i/DS100523066.b/0E24002-CAL4C66.d

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL4C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL4C66.d
Lab Smp Id: 0E24002-CAL4 Client Smp ID: SSTD5.00Y1
Inj Date : 24-MAY-2010 02:39
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD5.00Y1:2743
Misc Info : SSTD5.00Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 02:39 Cal File: 0E24002-CAL4C66.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

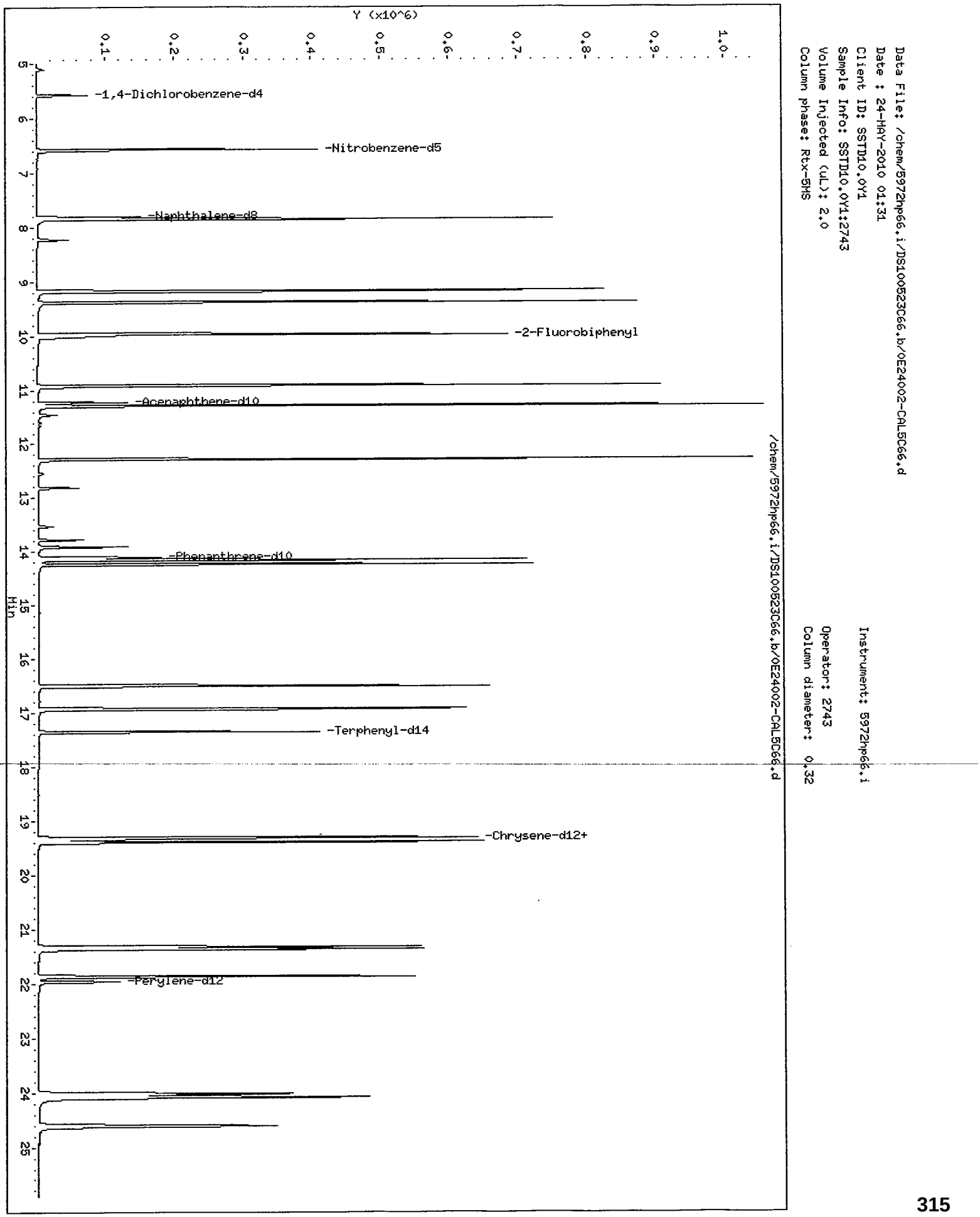
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.570	5.572	(1.000)	45697	2.00000	
* 2 Naphthalene-d8	136	7.812	7.814	(1.000)	162971	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.230	(1.000)	76136	2.00000	
* 4 Phenanthrene-d10	188	14.100	14.101	(1.000)	168732	2.00000	
* 5 Chrysene-d12	240	19.337	19.344	(1.000)	164637	2.00000	
* 6 Perylene-d12	264	21.971	21.971	(1.000)	140343	2.00000	
$ 9 Nitrobenzene-d5	82	6.574	6.576	(0.841)	180251	5.00000	5.3
$ 10 2-Fluorobiphenyl	172	9.976	9.978	(0.888)	443396	5.00000	5.2
$ 12 Terphenyl-d14	244	17.346	17.347	(0.897)	195432	5.00000	4.8
13 Naphthalene	128	7.851	7.853	(1.005)	502680	5.00000	5.2
15 2-Methylnaphthalene	141	9.168	9.170	(0.816)	255914	5.00000	5.2
17 Acenaphthylene	152	10.917	10.917	(0.972)	423270	5.00000	5.2
18 Acenaphthene	154	11.295	11.295	(1.006)	244035	5.00000	5.2
21 Fluorene	166	12.285	12.285	(0.871)	283328	5.00000	5.3
25 Phenanthrene	178	14.152	14.153	(1.004)	390438	5.00000	5.1

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL4C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.230	14.231	(1.009)	362331	5.00000	5.3
27 Fluoranthene	202	16.499	16.500	(0.853)	360115	5.00000	4.9
28 Pyrene	202	16.929	16.930	(0.875)	395105	5.00000	5.0
29 Benzo(a)anthracene	228	19.311	19.309	(0.999)	314823	5.00000	5.2
30 Chrysene	228	19.389	19.388	(1.003)	334868	5.00000	4.9
31 Benzo(b)fluoranthene	252	21.318	21.318	(0.970)	337105	5.00000	5.1
32 Benzo(k)fluoranthene	252	21.362	21.362	(0.972)	366287	5.00000	5.3
33 Benzo(a)pyrene	252	21.862	21.863	(0.995)	306954	5.00000	5.4
34 Indeno(1,2,3-cd)pyrene	276	24.028	24.029	(1.094)	277381	5.00000	5.7
35 Dibenzo(a,h)anthracene	278	24.094	24.083	(1.097)	279934	5.00000	5.4
36 Benzo(g,h,i)perylene	276	24.616	24.616	(1.120)	295397	5.00000	5.3

MV 5/24/10


Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d
Date : 24-MAY-2010 01:31
Client ID: SSTD10.0Y1
Sample Info: SSTD10.0Y1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
/chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d
Lab Smp Id: 0E24002-CAL5 Client Smp ID: SSTD10.0Y1
Inj Date : 24-MAY-2010 01:31
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD10.0Y1:2743
Misc Info : SSTD10.0Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.572	5.572	(1.000)	41793	2.00000	
* 2 Naphthalene-d8	136	7.814	7.814	(1.000)	187470	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.230	(1.000)	96859	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	252476	2.00000	
* 5 Chrysene-d12	240	19.344	19.344	(1.000)	225013	2.00000	
* 6 Perylene-d12	264	21.971	21.971	(1.000)	179916	2.00000	
$ 9 Nitrobenzene-d5	82	6.576	6.576	(0.842)	407513	10.0000	10(A)
$ 10 2-Fluorobiphenyl	172	9.978	9.978	(0.889)	1047568	10.0000	9.6
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	489586	10.0000	8.8
13 Naphthalene	128	7.853	7.853	(1.005)	1096472	10.0000	9.9
15 2-Methylnaphthalene	141	9.170	9.170	(0.817)	599104	10.0000	9.6
17 Acenaphthylene	152	10.917	10.917	(0.972)	1067600	10.0000	10(A)
18 Acenaphthene	154	11.295	11.295	(1.006)	599145	10.0000	9.9
21 Fluorene	166	12.285	12.285	(0.871)	709805	10.0000	8.9
25 Phenanthrene	178	14.153	14.153	(1.004)	969748	10.0000	8.5

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	913853	10.0000	9.0
27 Fluoranthene	202	16.500	16.500	(0.853)	838783	10.0000	8.4
28 Pyrene	202	16.930	16.930	(0.875)	914060	10.0000	8.4
29 Benzo(a)anthracene	228	19.309	19.309	(0.998)	770054	10.0000	9.3
30 Chrysene	228	19.388	19.388	(1.002)	775349	10.0000	8.3
31 Benzo(b)fluoranthene	252	21.318	21.318	(0.970)	778902	10.0000	9.1
32 Benzo(k)fluoranthene	252	21.362	21.362	(0.972)	803964	10.0000	9.0
33 Benzo(a)pyrene	252	21.863	21.863	(0.995)	706349	10.0000	9.7
34 Indeno(1,2,3-cd)pyrene	276	24.029	24.029	(1.094)	589093	10.0000	9.5
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.096)	603003	10.0000	9.1
36 Benzo(g,h,i)perylene	276	24.616	24.616	(1.120)	601643	10.0000	8.4

MW 5/24/10

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/24/10 INITIAL TIME OF TUNE 0055 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1255
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM SIM: (Y/N)
DOD
PREVENTIVE MAINTENANCE NONE

	SEQUENCE#	REVIEWED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OE24002		ASCAN066	✓	5/24/10	0023	SSTD 3.00	—	2µL	2743	SCD=ICD
2	S100523C		N/A	✓	/ /	0055	FC43	—	N/A		
3			OE24002-CAL3C66	✓	/ /	0057	SSTD 3.00 Y1	—	2µL		OE18007 8/18/10
4			CAL5C66	✓	/ /	0131	10.0 Y1	—			10
5			CALIC66	✓	/ /	0205	0.40 Y1	—			05
6			CAL4C66	✓	/ /	0239	5.00 Y1	—			09
7			CAL2C66	✓	/ /	0313	1.20 Y1	—			06
8					/ /						
9					/ /						
10					/ /						
11					/ /						
12					/ /						
13					/ /						
14					/ /						
15					/ /						
16					/ /						
17					/ /						
18					/ /						
19					/ /						
20					/ /						
21					/ /						
22					/ /						
23					/ /						
24					/ /						

DF 5/24/10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: See Comments
Internal STD Lot#/Exp. Date: 040 OE18001 11/18/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/11
Column Type: RTX-5MS 0.32m

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: DF DATE 5/24/10

6/01/09:jr

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: 5972HP66 Calibration Date(s): 05/25/10 05/25/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0601 0816

LAB FILE ID: RF0.4: 0E25001-CALRF1.2: 0E25001-CALRF3: 0E25001-CAL3C
RF5: 0E25001-CAL4CRF10: 0E25001-CAL5

COMPOUND	RF0.4	RF1.2	RF3	RF5	RF10
Naphthalene	1.336	1.232	1.203	1.227	1.187
2-Methylnaphthalene	1.514	1.368	1.333	1.434	1.510
Acenaphthylene	2.329	2.103	2.170	2.345	2.222
Acenaphthene	1.345	1.283	1.276	1.362	1.278
Fluorene	0.920	0.852	0.902	0.929	1.076
Phenanthrene	1.257	1.224	1.234	1.266	1.254
Anthracene	1.113	1.079	1.108	1.166	1.143
Fluoranthene	1.259	1.240	1.322	1.342	1.468
Pyrene	1.382	1.385	1.435	1.451	1.568
Benzo(a)anthracene	1.047	1.069	1.114	1.124	1.082
Chrysene	1.184	1.172	1.171	1.195	1.165
Benzo(b)fluoranthene	1.264	1.307	1.309	1.344	1.370
Benzo(k)fluoranthene	1.426	1.364	1.448	1.422	1.437
Benzo(a)pyrene	1.103	1.133	1.223	1.243	1.242
Indeno(1,2,3-cd)pyrene	0.982	1.023	1.058	1.106	1.074
Dibenzo(a,h)anthracene	0.975	1.031	1.043	1.076	1.062
Benzo(g,h,i)perylene	1.145	1.149	1.170	1.165	1.183
Nitrobenzene-d5	0.425	0.446	0.430	0.469	0.455
2-Fluorobiphenyl	1.885	2.209	2.161	1.791	2.388
Terphenyl-d14	0.709	0.705	0.741	0.724	0.755

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

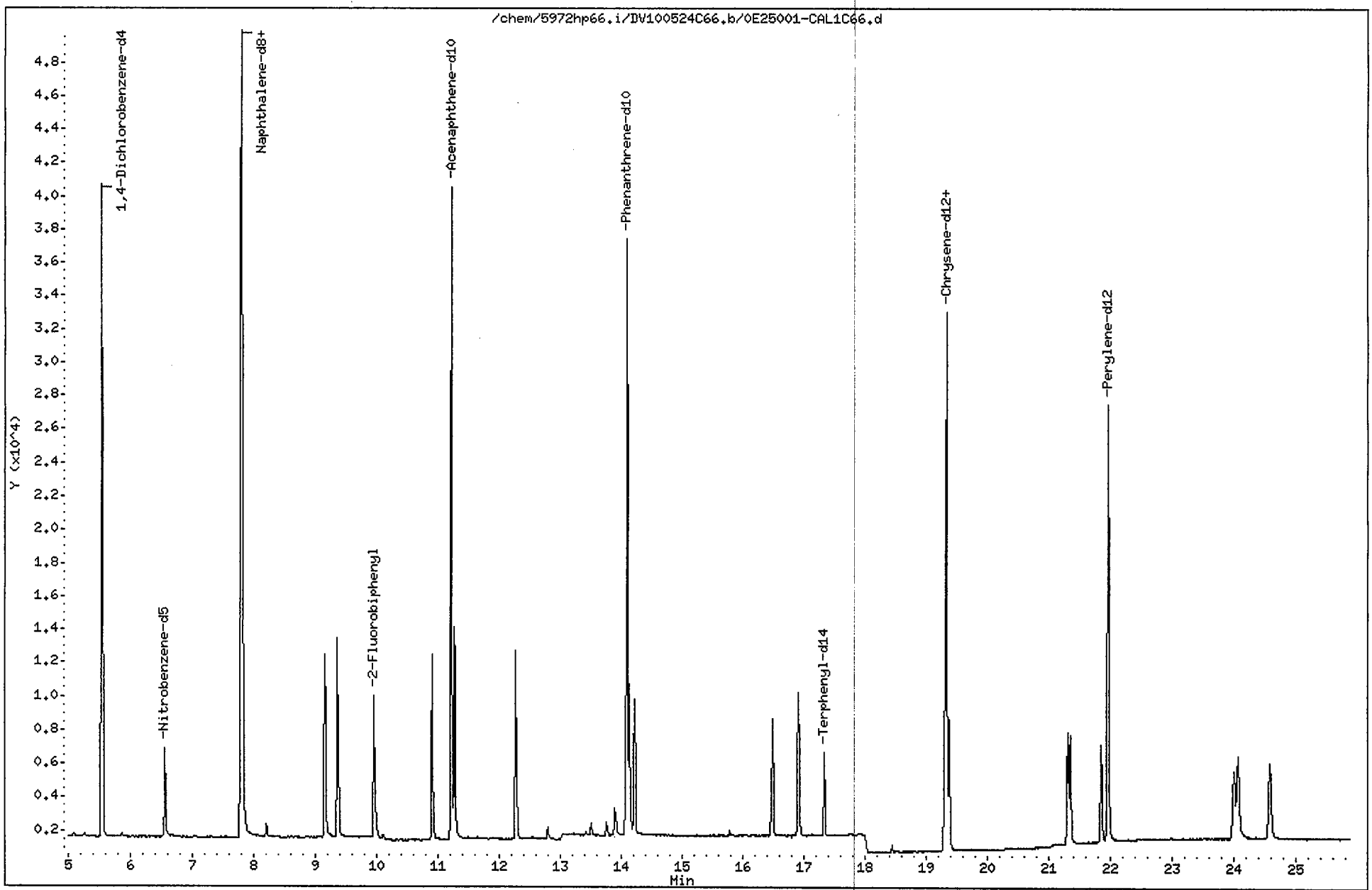
Instrument ID: 5972HP66 Calibration Date(s): 05/25/10 05/25/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0601 0816

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	AVRG	1.23709039	4.686	15.000
2-Methylnaphthalene	AVRG	1.43192718	5.709	15.000
Acenaphthylene	AVRG	2.23404611	4.628	15.000
Acenaphthene	AVRG	1.30892901	3.163	30.000
Fluorene	AVRG	0.93602321	8.970	15.000
Phenanthrene	AVRG	1.24712484	1.393	15.000
Anthracene	AVRG	1.12176747	3.022	15.000
Fluoranthene	AVRG	1.32618091	6.795	30.000
Pyrene	AVRG	1.44424098	5.249	15.000
Benzo(a)anthracene	AVRG	1.08720605	2.923	15.000
Chrysene	AVRG	1.17758875	1.029	15.000
Benzo(b)fluoranthene	AVRG	1.31897490	3.040	15.000
Benzo(k)fluoranthene	AVRG	1.41939457	2.307	15.000
Benzo(a)pyrene	AVRG	1.18861343	5.540	30.000
Indeno(1,2,3-cd)pyrene	AVRG	1.04861310	4.548	15.000
Dibenzo(a,h)anthracene	AVRG	1.03728761	3.747	15.000
Benzo(g,h,i)perylene	AVRG	1.16224716	1.330	15.000
Nitrobenzene-d5	AVRG	0.44503818	4.056	15.000
2-Fluorobiphenyl	AVRG	2.08703947	11.716	15.000
Terphenyl-d14	AVRG	0.72668507	2.913	15.000

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Date : 25-MAY-2010 07:09
Client ID: SSTD0.40Y2
Sample Info: SSTD0.40Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Lab Smp Id: 0E25001-CAL1 Client Smp ID: SSTD0.40Y2
Inj Date : 25-MAY-2010 07:09
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD0.40Y2:2743
Misc Info : SSTD0.40Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 07:09 Cal File: 0E25001-CAL1C66.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

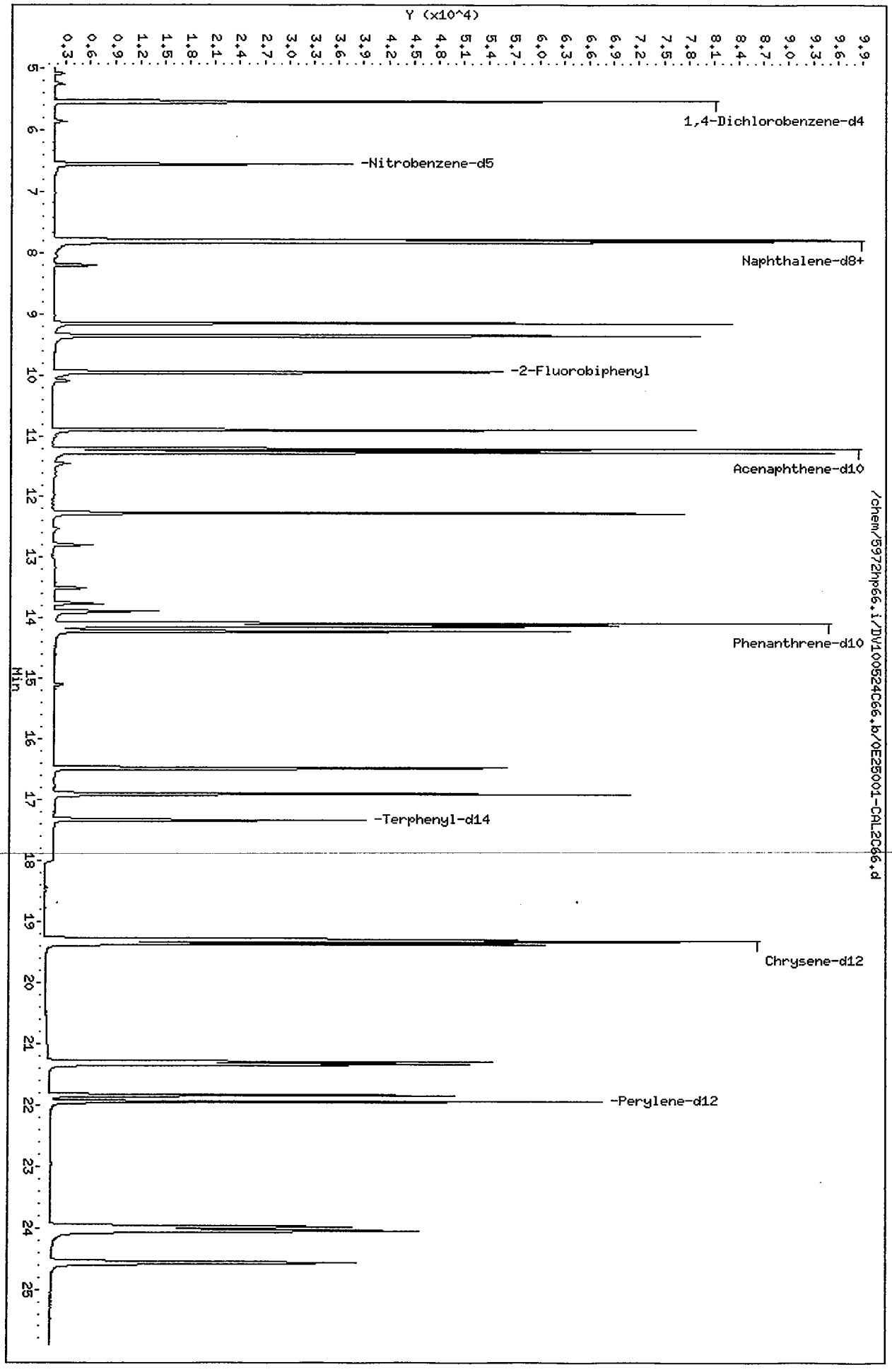
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	21673	2.00000	
* 2 Naphthalene-d8	136	7.799	7.802	(1.000)	68713	2.00000	
* 3 Acenaphthene-d10	164	11.217	11.218	(1.000)	28135	2.00000	
* 4 Phenanthrene-d10	188	14.088	14.087	(1.000)	47752	2.00000	
* 5 Chrysene-d12	240	19.318	19.319	(1.000)	42145	2.00000	
* 6 Perylene-d12	264	21.950	21.949	(1.000)	36854	2.00000	
$ 9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	5841	0.40000	0.40
$ 10 2-Fluorobiphenyl	172	9.963	9.952	(0.888)	10609	0.40000	0.37
$ 12 Terphenyl-d14	244	17.334	17.333	(0.897)	5977	0.40000	0.39
13 Naphthalene	128	7.825	7.828	(1.003)	18354	0.40000	0.42
15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	8519	0.40000	0.43
17 Acenaphthylene	152	10.904	10.905	(0.972)	13107	0.40000	0.41
18 Acenaphthene	154	11.269	11.270	(1.005)	7568	0.40000	0.41
21 Fluorene	166	12.273	12.274	(0.871)	8792	0.40000	0.40
25 Phenanthrene	178	14.127	14.126	(1.003)	12002	0.40000	0.40

TMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	10627	0.40000	0.40
27 Fluoranthene	202	16.487	16.486	(0.853)	10612	0.40000	0.39
28 Pyrene	202	16.904	16.903	(0.875)	11647	0.40000	0.39
29 Benzo(a)anthracene	228	19.292	19.293	(0.999)	8829	0.40000	0.39
30 Chrysene	228	19.370	19.371	(1.003)	9984	0.40000	0.40
31 Benzo(b)fluoranthene	252	21.297	21.296	(0.970)	9319	0.40000	0.39
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	10515	0.40000	0.40
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	8130	0.40000	0.38
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	7238	0.40000	0.39
35 Dibenzo(a,h)anthracene	278	24.061	24.061	(1.096)	7186	0.40000	0.39
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	8441	0.40000	0.40

DMF 5/28/10


Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Date : 25-MAY-2010 08:16
Client ID: SSTD1.20Y2
Sample Info: SSTD1.20Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^4)
1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8+
-2-Fluorobiphenyl
Acenaphthene-d10
Phenanthrene-d10
-Terphenyl-d14
Chrysene-d12
-Perylene-d12
Min
/chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Lab Smp Id: 0E25001-CAL2 Client Smp ID: SSTD1.20Y2
Inj Date : 25-MAY-2010 08:16
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD1.20Y2:2743
Misc Info : SSTD1.20Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	42756	2.00000	
* 2 Naphthalene-d8	136	7.799	7.802	(1.000)	151009	2.00000	
* 3 Acenaphthene-d10	164	11.217	11.218	(1.000)	69374	2.00000	
* 4 Phenanthrene-d10	188	14.088	14.087	(1.000)	121694	2.00000	
* 5 Chrysene-d12	240	19.318	19.319	(1.000)	108693	2.00000	
* 6 Perylene-d12	264	21.950	21.949	(1.000)	94345	2.00000	
$ 9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	40366	1.20000	1.2
$ 10 2-Fluorobiphenyl	172	9.963	9.952	(0.888)	91960	1.20000	1.3
$ 12 Terphenyl-d14	244	17.334	17.333	(0.897)	45962	1.20000	1.2
13 Naphthalene	128	7.825	7.828	(1.003)	111671	1.20000	1.2
15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	56927	1.20000	1.1
17 Acenaphthylene	152	10.904	10.905	(0.972)	87547	1.20000	1.1
18 Acenaphthene	154	11.269	11.270	(1.005)	53389	1.20000	1.2
21 Fluorene	166	12.273	12.274	(0.871)	62225	1.20000	1.1
25 Phenanthrene	178	14.127	14.126	(1.003)	89360	1.20000	1.2

TNP 5/25/10

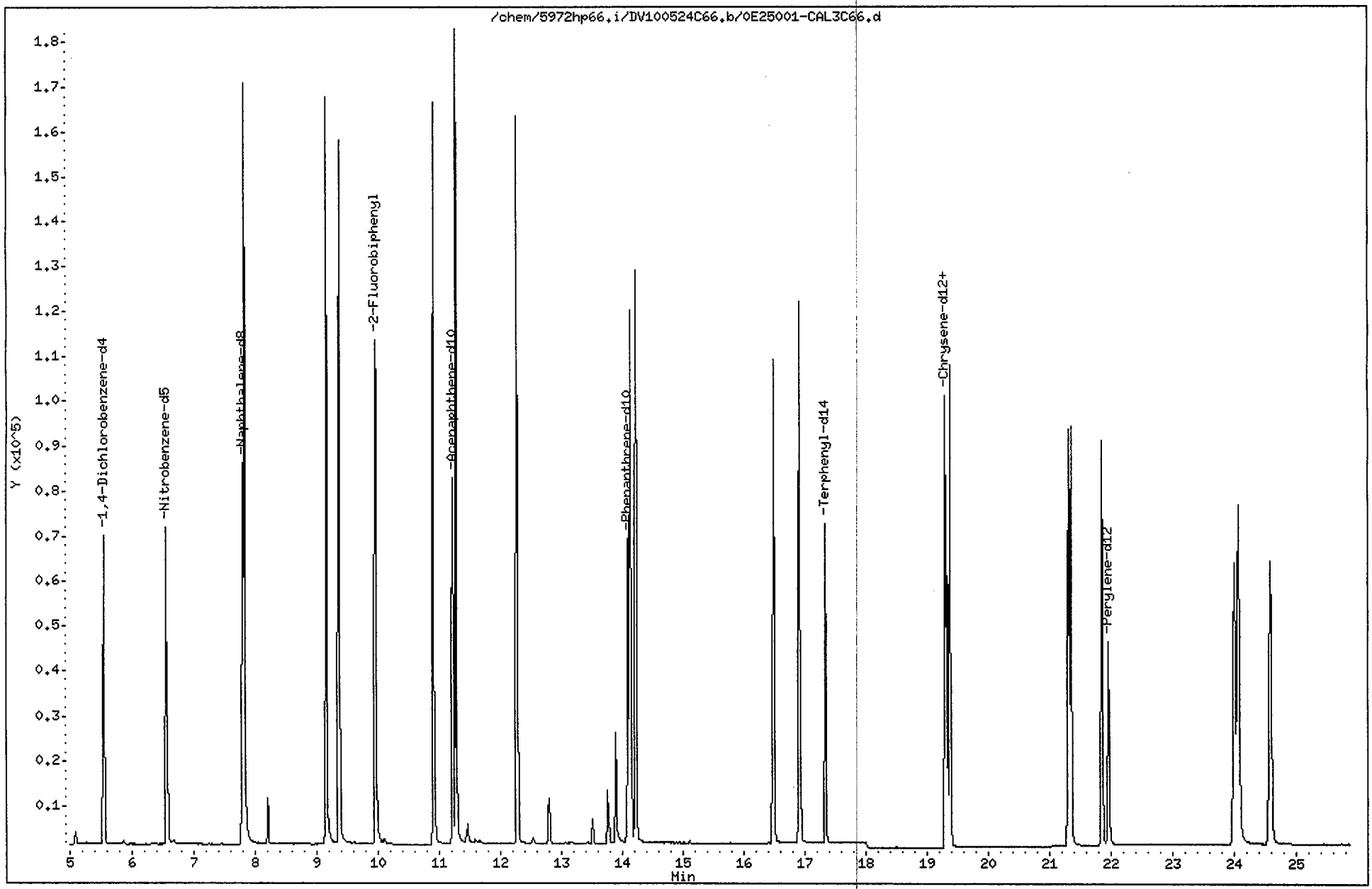
Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	78760	1.20000	1.2
27 Fluoranthene	202	16.486	16.486	(0.853)	80846	1.20000	1.1
28 Pyrene	202	16.904	16.903	(0.875)	90310	1.20000	1.2
29 Benzo(a)anthracene	228	19.291	19.293	(0.999)	69695	1.20000	1.2
30 Chrysene	228	19.370	19.371	(1.003)	76404	1.20000	1.2
31 Benzo(b)fluoranthene	252	21.296	21.296	(0.970)	74012	1.20000	1.2
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	77185	1.20000	1.2
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	64130	1.20000	1.1
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	57928	1.20000	1.2
35 Dibenzo(a,h)anthracene	278	24.050	24.061	(1.096)	58355	1.20000	1.2
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	65035	1.20000	1.2

TNR 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Date : 25-MAY-2010 06:01
Client ID: SSTD3.00Y2
Sample Info: SSTD3.00Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Lab Smp Id: 0E25001-CAL3 Client Smp ID: SSTD3.00Y2
Inj Date : 25-MAY-2010 06:01
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00Y2:2743
Misc Info : SSTD3.00Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

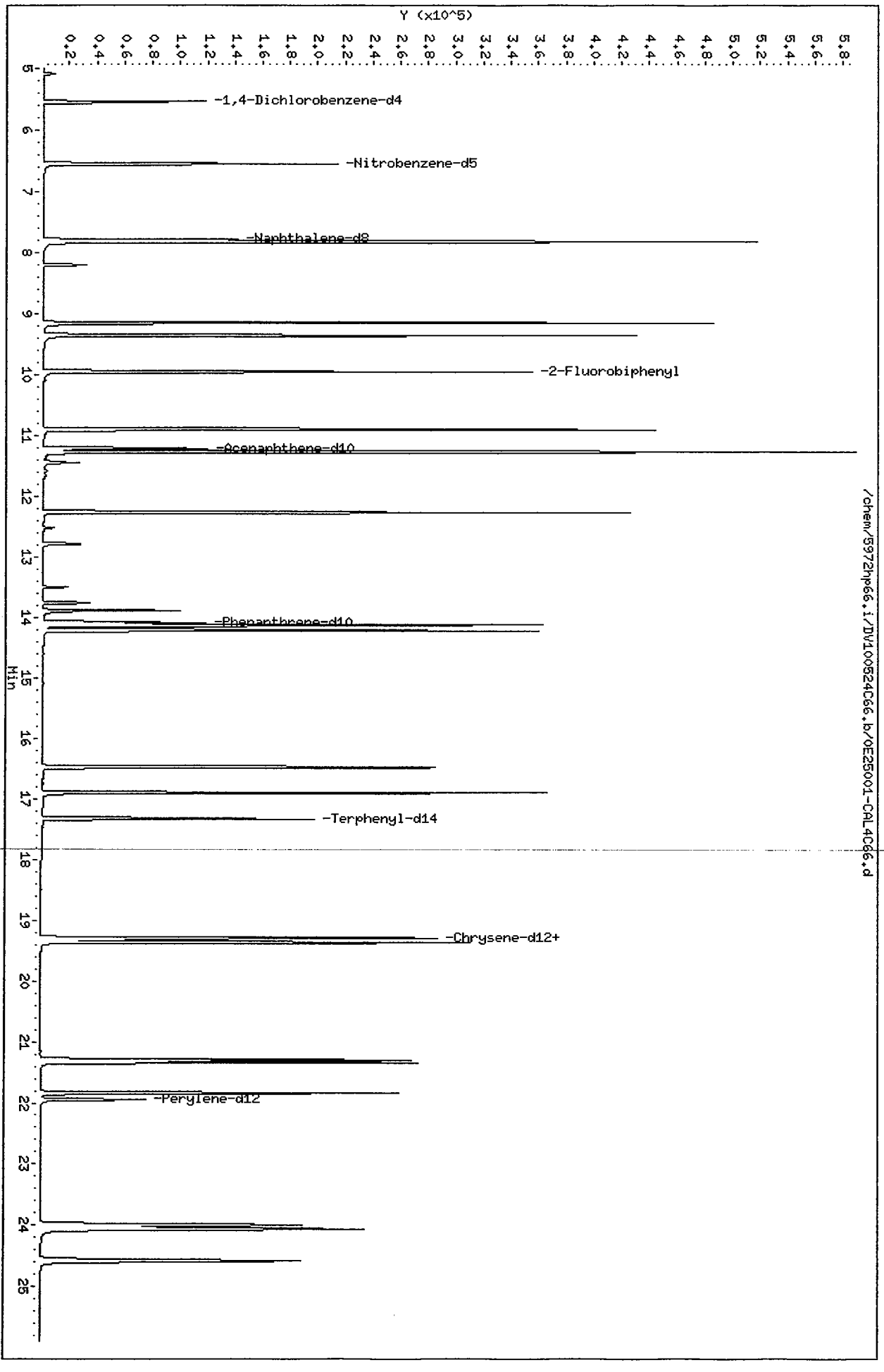
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.547	5.547	(1.000)	37182	2.00000	
*	2 Naphthalene-d8	136	7.802	7.802	(1.000)	125435	2.00000	
*	3 Acenaphthene-d10	164	11.218	11.218	(1.000)	56129	2.00000	
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	92434	2.00000	
*	5 Chrysene-d12	240	19.319	19.319	(1.000)	75031	2.00000	
*	6 Perylene-d12	264	21.949	21.949	(1.000)	62246	2.00000	
$	9 Nitrobenzene-d5	82	6.563	6.563	(0.841)	80993	3.00000	2.9
$	10 2-Fluorobiphenyl	172	9.952	9.952	(0.887)	181927	3.00000	3.1
$	12 Terphenyl-d14	244	17.333	17.333	(0.897)	83431	3.00000	3.1
	13 Naphthalene	128	7.828	7.828	(1.003)	226427	3.00000	2.9
	15 2-Methylnaphthalene	141	9.157	9.157	(0.816)	112252	3.00000	2.8
	17 Acenaphthylene	152	10.905	10.905	(0.972)	182733	3.00000	2.9
	18 Acenaphthene	154	11.270	11.270	(1.005)	107472	3.00000	2.9
	21 Fluorene	166	12.274	12.274	(0.871)	125051	3.00000	2.9
	25 Phenanthrene	178	14.126	14.126	(1.003)	171164	3.00000	3.0

DAP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.217	14.217	(1.009)	153579	3.00000	3.0
27 Fluoranthene	202	16.486	16.486	(0.853)	148807	3.00000	3.0
28 Pyrene	202	16.903	16.903	(0.875)	161512	3.00000	3.0
29 Benzo(a)anthracene	228	19.293	19.293	(0.999)	125381	3.00000	3.1
30 Chrysene	228	19.371	19.371	(1.003)	131836	3.00000	3.0
31 Benzo(b)fluoranthene	252	21.296	21.296	(0.970)	122234	3.00000	3.0
32 Benzo(k)fluoranthene	252	21.339	21.339	(0.972)	135163	3.00000	3.1
33 Benzo(a)pyrene	252	21.840	21.840	(0.995)	114164	3.00000	3.1
34 Indeno(1,2,3-cd)pyrene	276	23.995	23.995	(1.093)	98749	3.00000	3.0
35 Dibenzo(a,h)anthracene	278	24.061	24.061	(1.096)	97384	3.00000	3.0
36 Benzo(g,h,i)perylene	276	24.572	24.572	(1.119)	109200	3.00000	3.0

TMP 5/25/10


Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Date : 25-MAY-2010 07:43
Client ID: SSTD5,00Y2
Sample Info: SSTD5,00Y2;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^5)
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
/chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Lab Smp Id: 0E25001-CAL4 Client Smp ID: SSTD5.00Y2
Inj Date : 25-MAY-2010 07:43
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD5.00Y2:2743
Misc Info : SSTD5.00Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 07:43 Cal File: 0E25001-CAL4C66.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

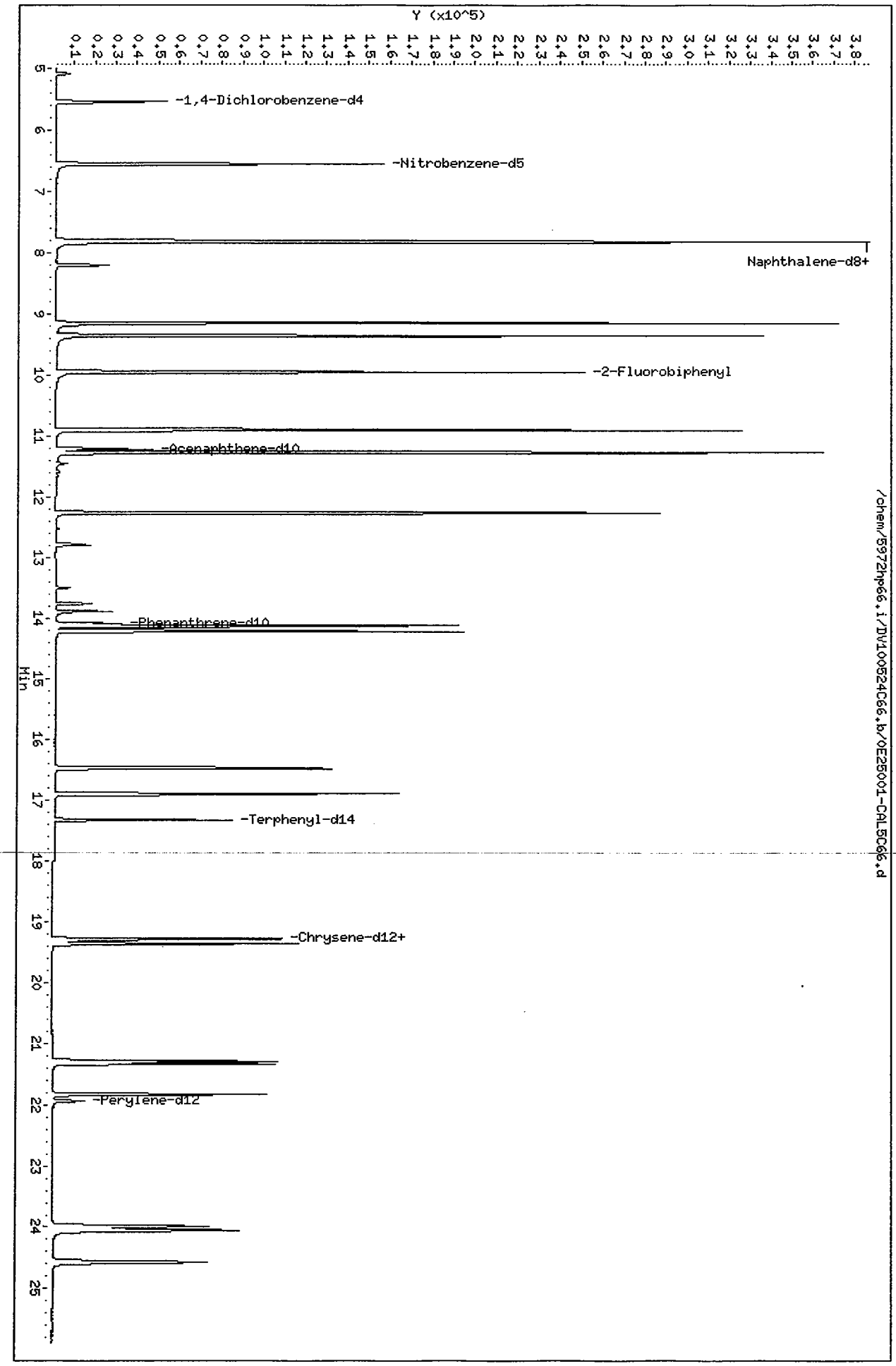
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.543	5.547	(1.000)	63425	2.00000	
* 2 Naphthalene-d8	136	7.785	7.802	(1.000)	216429	2.00000	
* 3 Acenaphthene-d10	164	11.218	11.218	(1.000)	91925	2.00000	
* 4 Phenanthrene-d10	188	14.087	14.087	(1.000)	154139	2.00000	
* 5 Chrysene-d12	240	19.318	19.319	(1.000)	128222	2.00000	
* 6 Perylene-d12	264	21.951	21.949	(1.000)	108520	2.00000	
$ 9 Nitrobenzene-d5	82	6.547	6.563	(0.841)	254021	5.00000	5.3
$ 10 2-Fluorobiphenyl	172	9.949	9.952	(0.887)	411699	5.00000	4.4
$ 12 Terphenyl-d14	244	17.333	17.333	(0.897)	231964	5.00000	4.9
13 Naphthalene	128	7.824	7.828	(1.005)	663758	5.00000	5.0
15 2-Methylnaphthalene	141	9.154	9.157	(0.816)	329678	5.00000	5.0
17 Acenaphthylene	152	10.905	10.905	(0.972)	538984	5.00000	5.2
18 Acenaphthene	154	11.270	11.270	(1.005)	313112	5.00000	5.2
21 Fluorene	166	12.274	12.274	(0.871)	357974	5.00000	4.9
25 Phenanthrene	178	14.126	14.126	(1.003)	487877	5.00000	5.1

TMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.217	14.217	(1.009)	449448	5.00000	5.1
27 Fluoranthene	202	16.486	16.486	(0.853)	430074	5.00000	5.0
28 Pyrene	202	16.903	16.903	(0.875)	465169	5.00000	5.0
29 Benzo(a)anthracene	228	19.292	19.293	(0.999)	360361	5.00000	5.1
30 Chrysene	228	19.371	19.371	(1.003)	383149	5.00000	5.1
31 Benzo(b)fluoranthene	252	21.298	21.296	(0.970)	364676	5.00000	5.1
32 Benzo(k)fluoranthene	252	21.341	21.339	(0.972)	385853	5.00000	5.0
33 Benzo(a)pyrene	252	21.842	21.840	(0.995)	337158	5.00000	5.2
34 Indeno(1,2,3-cd)pyrene	276	23.997	23.995	(1.093)	300043	5.00000	5.2
35 Dibenzo(a,h)anthracene	278	24.063	24.061	(1.096)	291827	5.00000	5.2
36 Benzo(g,h,i)perylene	276	24.574	24.572	(1.119)	315969	5.00000	5.0

TMP 5/25/10


Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Date : 25-MAY-2010 06:35
Client ID: SSTD10,0Y2
Sample Info: SSTD10,0Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^5)
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8+
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
/chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Lab Smp Id: 0E25001-CAL5 Client Smp ID: SSTD10.0Y2
Inj Date : 25-MAY-2010 06:35
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD10.0Y2:2743
Misc Info : SSTD10.0Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 06:35 Cal File: 0E25001-CAL5C66.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	29337	2.00000	
* 2 Naphthalene-d8	136	7.799	7.802	(1.000)	86160	2.00000	
* 3 Acenaphthene-d10	164	11.217	11.218	(1.000)	32564	2.00000	
* 4 Phenanthrene-d10	188	14.087	14.087	(1.000)	41430	2.00000	
* 5 Chrysene-d12	240	19.319	19.319	(1.000)	26559	2.00000	
* 6 Perylene-d12	264	21.950	21.949	(1.000)	21293	2.00000	
$ 9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	195887	10.0000	10(A)
$ 10 2-Fluorobiphenyl	172	9.950	9.952	(0.887)	388859	10.0000	11(A)
$ 12 Terphenyl-d14	244	17.334	17.333	(0.897)	100210	10.0000	10(A)
13 Naphthalene	128	7.825	7.828	(1.003)	511461	10.0000	9.6
15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	245895	10.0000	10(A)
17 Acenaphthylene	152	10.904	10.905	(0.972)	361779	10.0000	9.9
18 Acenaphthene	154	11.269	11.270	(1.005)	208101	10.0000	9.8
21 Fluorene	166	12.272	12.274	(0.871)	222986	10.0000	11(A)
25 Phenanthrene	178	14.126	14.126	(1.003)	259875	10.0000	10(A)

DMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	236864	10.0000	10(A)
27 Fluoranthene	202	16.486	16.486	(0.853)	194996	10.0000	11(A)
28 Pyrene	202	16.904	16.903	(0.875)	208279	10.0000	11(A)
29 Benzo(a)anthracene	228	19.293	19.293	(0.999)	143641	10.0000	10(A)
30 Chrysene	228	19.371	19.371	(1.003)	154738	10.0000	9.9
31 Benzo(b)fluoranthene	252	21.297	21.296	(0.970)	145830	10.0000	10(A)
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	152992	10.0000	10
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	132196	10.0000	10(A)
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	114361	10.0000	10(A)
35 Dibenzo(a,h)anthracene	278	24.050	24.061	(1.096)	113061	10.0000	10(A)
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	125942	10.0000	10(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TMP 5/25/10

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/25/10 INITIAL TIME OF TUNE 0559 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1759
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAHSIM DOD SIM: (Y/N)
PREVENTIVE MAINTENANCE Front/Liner/Septa

	SEQUENCE#	REJECTED	FILENAME	REJECTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OE25001		ASCANC66		5/25/10	0527	SSTD3.00	—	2µl	2743	SCD=LCD
2	DV100525C		N/A			0559	FC43	—	N/A		
3			OE25001-CAL3C66			0601	SSTD3.00Y2	—	2µl		OE18007 8/18/10
4			-CAL5C66			0635	10.0Y2	—			10
5			-CAL1C66			0709	0.40Y2	—			05
6			-CAL4C66			0743	5.00Y2	—			09
7			-CAL2C66			0816	1.20Y2	—			06
8			1005131-02JC66			0856	EB051310-SB	1005131			
9			03JC66	IL		0930	BBG-FB051310				
10			03J2C66			1013		VARIOUS 1005131			TMP 5/25/10
11			0052402-BLK1C66			1046	SBLKCB				
12			BS1C66	SFV SL		1120	SCBLCS	VARIOUS			
13			BSD1C66			1155	SCBLCSD	VARIOUS			
14			1005131-04C66	1H		1228	BBG-FB051810	1005131			
15			1005131-05C66			1302	EB051810-SS	1005131			
16			1005158-01C66	1H		1336	AOC8-MW-35	1005158			
17			02C66	1H		1410	AOC8-MW-35D				JS
18			01JCC6	1H		1445	AOC8-MW-35				
19			02JC66			1518	AOC8-MW-~~36~~35D				
20			03 C66	1H		1552	Use 8-25-10 ~~ERO51910~~ AOC8-MW-36				
21			04 C66	1H		1626	ERO51910				
22			05C66	1H		1700	AOC8-MW-37				
23			0052402-BS1JC66			1734	SCBLCS	Various			
24			1005131-04JC66			1808	BBG-FB051810	1005131			

OWS 05-25-10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: See Comments
Internal STD Lot#/Exp. Date: 040 OE18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/15
Column Type: RTX-5MS 0.32m

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TMP DATE 5/25/10

Supervisor/Manager Review: TMP pages 3060 to 3080 Date 5/25/10

b. Continuing Calibration Data (Form VII SV)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

(1) Reconstructed Ion Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

(2) EICPs displaying each manual integration.

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: 5972HP66 Calibration Date: 05/24/10 Time: 1152

Lab File ID: 0E24006-CCV1A6 Init. Calib. Date(s): 05/24/10 05/24/10

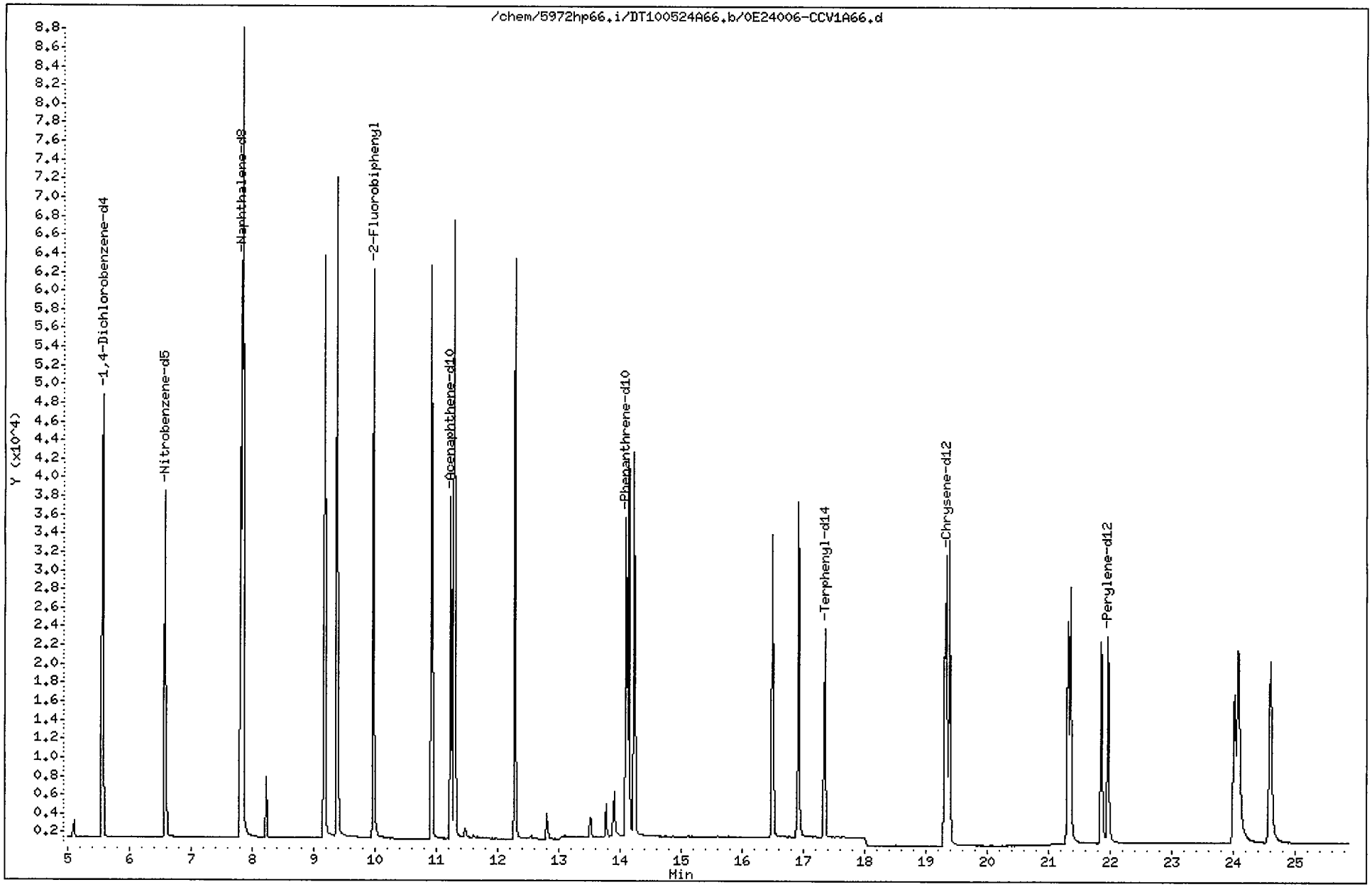
Init. Calib. Times: 0057 0313

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.1860000	1.0630665	0.01	-10.36	50.00	AVRG
2-Methylnaphthalene	1.2940000	1.4042348	0.01	8.52	50.00	AVRG
Acenaphthylene	2.1200000	1.8209341	0.01	-14.11	50.00	AVRG
Acenaphthene	1.2440000	1.1371874	0.01	-8.59	20.00	AVRG
Fluorene	0.6340000	0.6490931	0.01	2.38	50.00	AVRG
Phenanthrene	0.8990000	0.8675339	0.01	-3.50	50.00	AVRG
Anthracene	0.8060000	0.7245594	0.01	-10.10	50.00	AVRG
Fluoranthene	0.8860000	0.7494500	0.01	-15.41	20.00	AVRG
Pyrene	0.9630000	0.8217877	0.01	-14.66	50.00	AVRG
Benzo(a)anthracene	0.7350000	0.5470545	0.01	-25.57	50.00	AVRG
Chrysene	0.8270000	0.7096390	0.01	-14.19	50.00	AVRG
Benzo(b)fluoranthene	0.9470000	0.6906602	0.01	-27.07	50.00	AVRG
Benzo(k)fluoranthene	0.9910000	0.9616948	0.01	-2.96	50.00	AVRG
Benzo(a)pyrene	0.8090000	0.6682166	0.01	-17.40	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.6900000	0.5831320	0.01	-15.49	50.00	AVRG
Dibenzo(a,h)anthracene	0.7400000	0.6685990	0.01	-9.65	50.00	AVRG
Benzo(g,h,i)perylene	0.8000000	0.7641304	0.01	-4.48	50.00	AVRG
Nitrobenzene-d5	0.4160000	0.3681370	0.01	-11.50	50.00	AVRG
2-Fluorobiphenyl	2.2450000	2.1216459	0.01	-5.49	50.00	AVRG
Terphenyl-d14	0.4920000	0.4282409	0.01	-12.96	50.00	AVRG

Data File: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Date : 24-MAY-2010 11:52
Client ID: SSTD3.00IK
Sample Info: SSTD3.00IK:2650
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2650
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Report Date: 24-May-2010 13:33

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Lab Smp Id: 0E24006-CCV1 Client Smp ID: SSTD3.00IK
Inj Date : 24-MAY-2010 11:52
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IK:2650
Misc Info : SSTD3.00IK
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100524A66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 12:27 perry Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 1,4-Dichlorobenzene-d4	152	5.569	5.569	(1.000)	29379	2.00000	
2 Naphthalene-d8	136	7.811	7.811	(1.000)	78737	2.00000	
3 Acenaphthene-d10	164	11.232	11.232	(1.000)	25566	2.00000	
4 Phenanthrene-d10	188	14.100	14.100	(1.000)	46661	2.00000	
5 Chrysene-d12	240	19.336	19.336	(1.000)	40910	2.00000	
6 Perylene-d12	264	21.960	21.960	(1.000)	33120	2.00000	
9 Nitrobenzene-d5	82	6.573	6.573	(0.841)	43479	3.00000	2.7
10 2-Fluorobiphenyl	172	9.975	9.975	(0.888)	81363	3.00000	2.8
12 Terphenyl-d14	244	17.346	17.346	(0.897)	26279	3.00000	2.6
13 Naphthalene	128	7.851	7.851	(1.005)	125554	3.00000	2.7
15 2-Methylnaphthalene	141	9.167	9.167	(0.816)	53851	3.00000	3.3
17 Acenaphthylene	152	10.919	10.919	(0.972)	69831	3.00000	2.6
18 Acenaphthene	154	11.297	11.297	(1.006)	43610	3.00000	2.7
21 Fluorene	166	12.287	12.287	(0.871)	45431	3.00000	3.1
25 Phenanthrene	178	14.139	14.139	(1.003)	60720	3.00000	2.9

TR 5/24/10

Data File: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Report Date: 24-May-2010 13:33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.230	14.230	(1.009)	50713	3.00000	2.7
27 Fluoranthene	202	16.499	16.499	(0.853)	45990	3.00000	2.5
28 Pyrene	202	16.916	16.916	(0.875)	50429	3.00000	2.6
29 Benzo(a)anthracene	228	19.301	19.301	(0.998)	33570	3.00000	2.2
30 Chrysene	228	19.380	19.380	(1.002)	43547	3.00000	2.6
31 Benzo(b)fluoranthene	252	21.318	21.318	(0.971)	34312	3.00000	2.2
32 Benzo(k)fluoranthene	252	21.351	21.351	(0.972)	47777	3.00000	2.9
33 Benzo(a)pyrene	252	21.852	21.852	(0.995)	33197	3.00000	2.5
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.018	(1.094)	28970	3.00000	2.5(M)
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.097)	33216	3.00000	2.7
36 Benzo(g,h,i)perylene	276	24.605	24.605	(1.120)	37962	3.00000	2.9

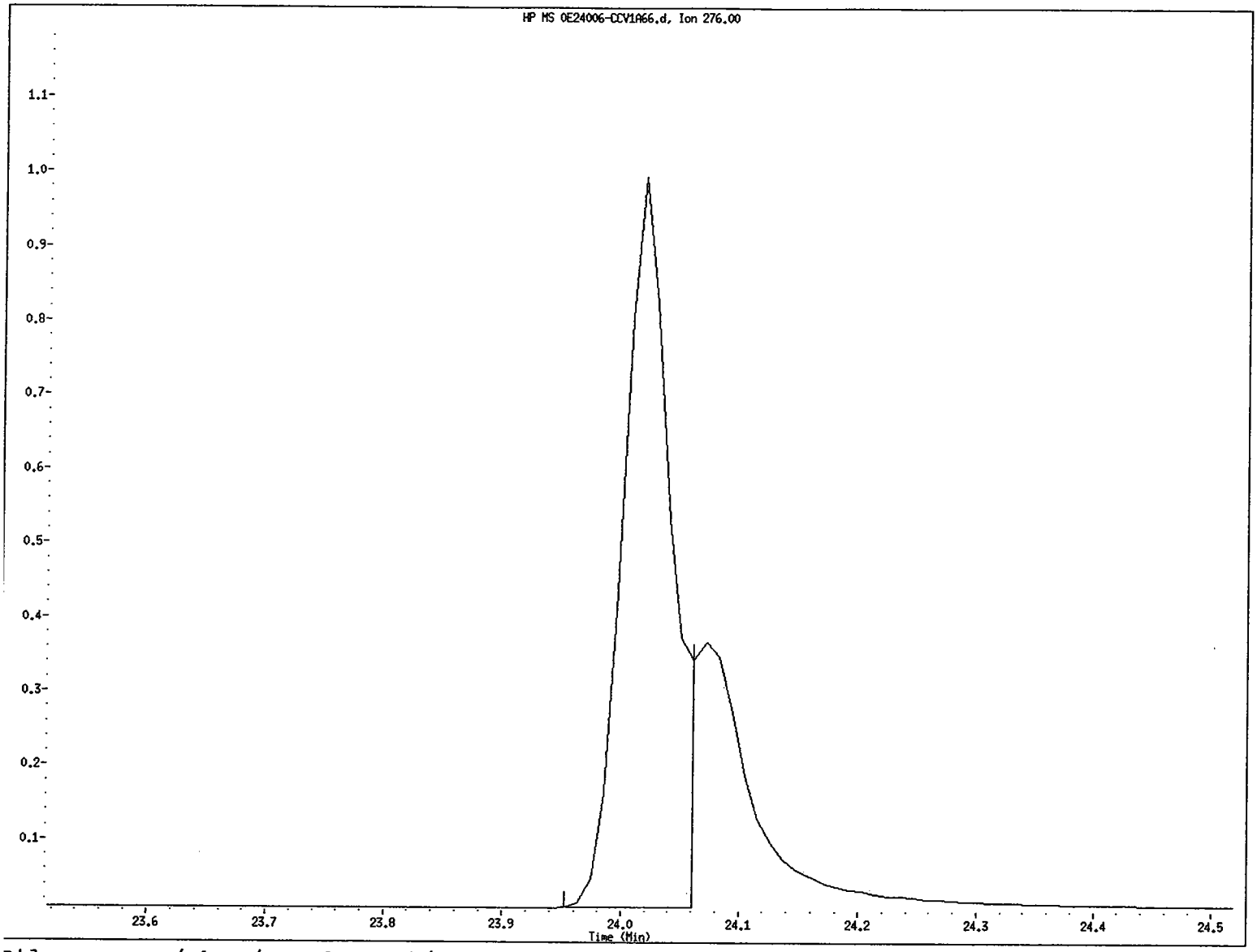
TMP 5/24/10

QC Flag Legend

M - Compound response manually integrated.

pm 6/1/10

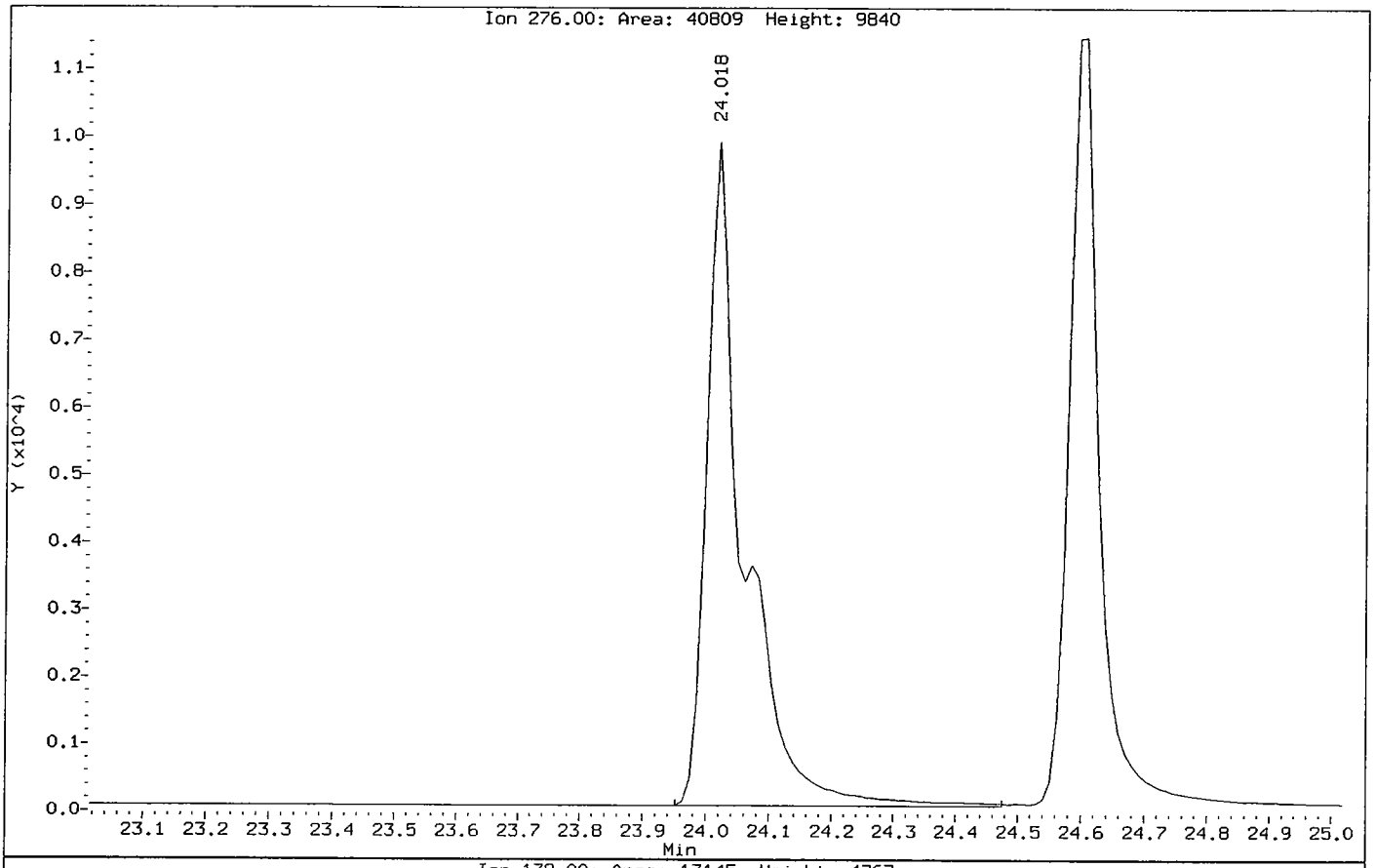
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 28970 Manually integrated

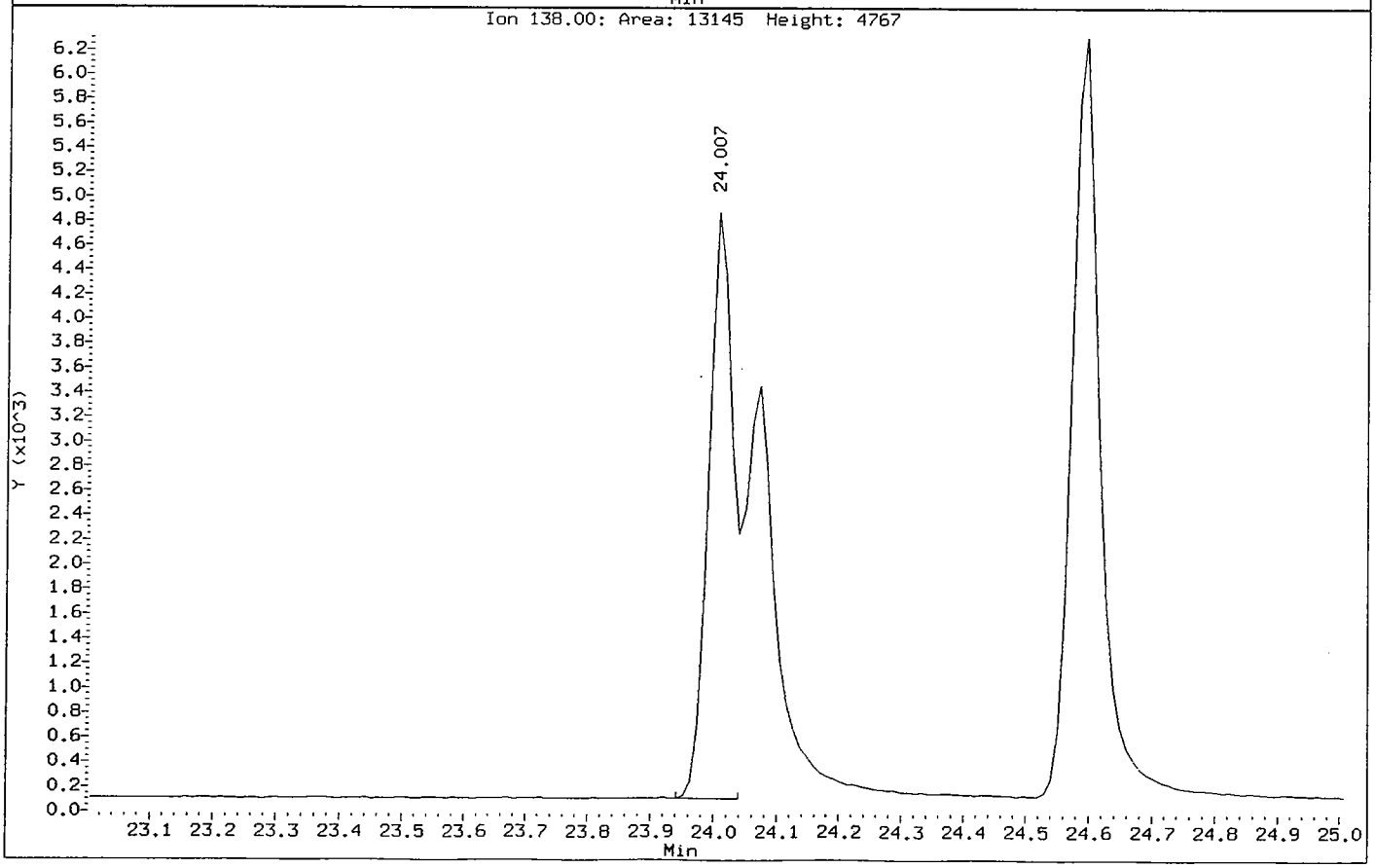


File name: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Client ID: SSTD3.00IK
Instrument ID: 5972hp66.i
Injection Date and Time: 24-MAY-2010 11:52
Retention Time: 24.02
Operator ID: 2650

Data File: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Injection Date: 24-MAY-2010 11:52
Instrument: 5972hp66.i
Client Sample ID: SSTD3.00IK

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/24/10 INITIAL TIME OF TUNE 1143 SHIFT/S (A) V (B)_____ (C)_____
TIME TUNE EXPIRES 2343
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAHSIM DOD SIM: (Y/N)
PREVENTIVE MAINTENANCE NONE

	SEQUENCE#	RESTD	FILENAME	INSTR#	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	QE24006		N/A	/	5/24/10	1143	FC43	—	N/A	2650	SD=LCD
2	DT100524A		QE24006-CCV1A606	/		1152	SSTD3.00IK	—	2µL		
3			0051905-BLK1A606	/	/ /	1226	SBLKBN	1005131			
4		/	0051905-BS1A606	1H	/ /	1316	SBNLCS				
5		/	0051905-BSD1A606	SH	/ /	1350	SBNLCSD				SVMF DR
6		/	1005131-01A606	1H	/ /	1532	EB051210-SS				
7			0051905-BS1JA606	/	/ /	16006	SBNLCS				
8		/	1005131-02A606	1H	/ /	1640	EB051310-SB				
9		/	-03A606	1H	/ /	1714	BBG-FB051310				
10			-01JA606	/	/ /	1748	EB051210-SS	↓			
11		/	0051720-BLK1A606	1H SH	/ /	1821	SBLKBE	1005129			
12		/	-BS1A606	1H	/ /	1855	SBELCS				
13		/	-MS1A606	1H	/ /	1929	SS53-0-1MS				
14		/	-MSD1A606	1H	/ /	2003	SS53-0-1MSD				
15		/	1005129-05A606	1H SH	/ /	2037	SS53-0-1				
16		/	-01A606	1H	/ /	2111	SS55-00-01				
17		/	-02A606	1H	/ /	2145	SB55-00-2.5-3				
18		/	-03A606	1H SL	/ /	2219	SS54-0-1				
19		/	-04A606	1H	/ /	2253	SB54-4-5				
20		/	-06A606	1H SL	/ /	2326	SB53-7-8	↓	↓	↓	
21					/ /						
22					/ /		MM 5/25/10				
23					/ /						
24					/ /						

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FullSIM 0E18007 8/18/10
Internal STD Lot#/Exp. Date: 040 0E18001 11/18/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TM DATE 5/25/10
6/01/09:jr

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: 5972HP66 Calibration Date: 05/27/10 Time: 1610

Lab File ID: 0E27013-CCV1A6 Init. Calib. Date(s): 05/25/10 05/25/10

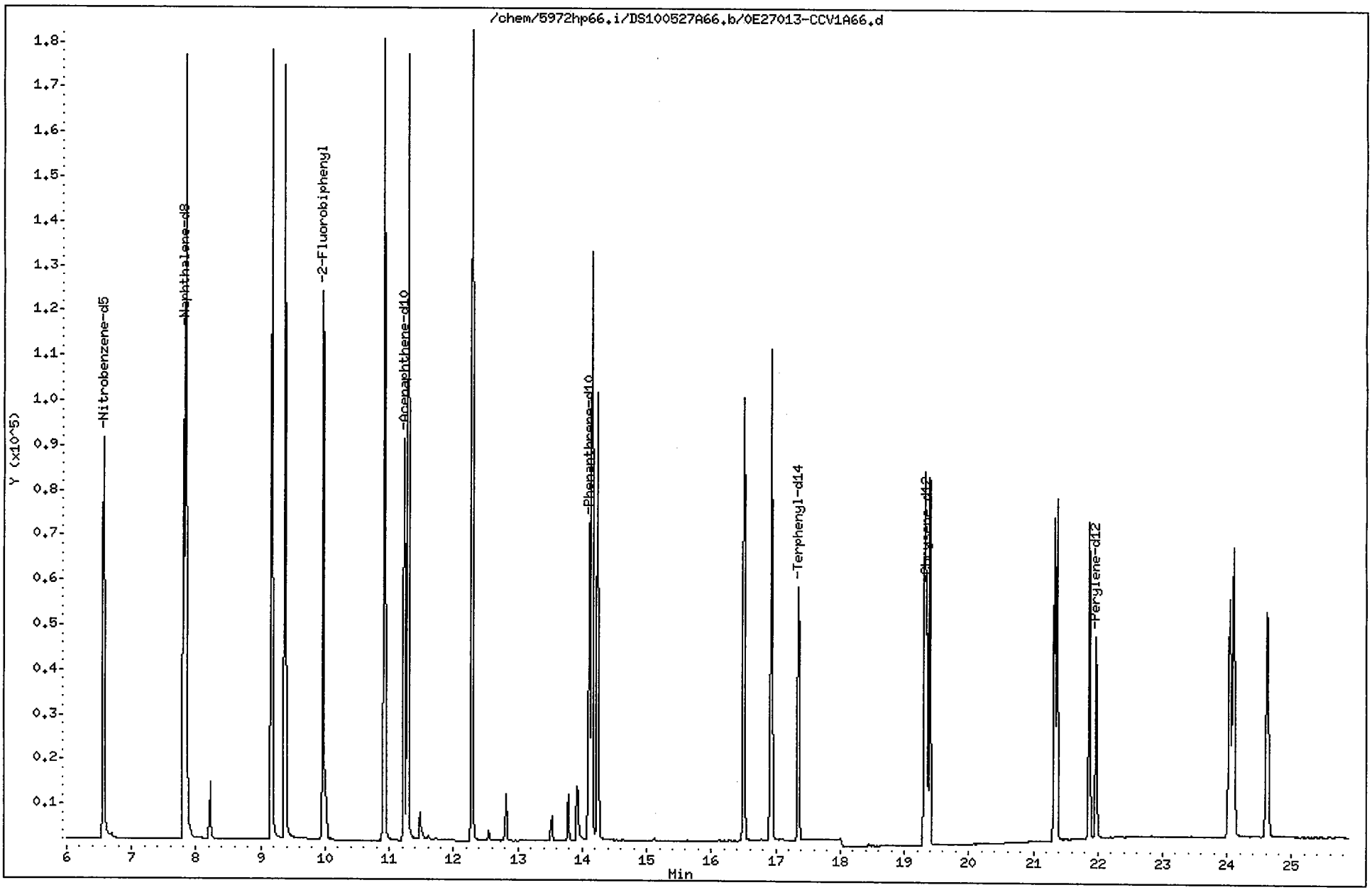
Init. Calib. Times: 0601 0816

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.0875964	0.01	-12.08	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.3276632	0.01	-7.29	50.00	AVRG
Acenaphthylene	2.2340000	2.1545533	0.01	-3.56	50.00	AVRG
Acenaphthene	1.3090000	1.1731817	0.01	-10.38	20.00	AVRG
Fluorene	0.9360000	0.8285218	0.01	-11.48	50.00	AVRG
Phenanthrene	1.2470000	1.0472306	0.01	-16.02	50.00	AVRG
Anthracene	1.1220000	0.9675398	0.01	-13.77	50.00	AVRG
Fluoranthene	1.3260000	1.2435813	0.01	-6.22	20.00	AVRG
Pyrene	1.4440000	1.3279020	0.01	-8.04	50.00	AVRG
Benzo(a)anthracene	1.0870000	0.9922176	0.01	-8.72	50.00	AVRG
Chrysene	1.1770000	1.0015845	0.01	-14.90	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.0621117	0.01	-19.48	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.1623616	0.01	-18.08	50.00	AVRG
Benzo(a)pyrene	1.1890000	1.0198584	0.01	-14.22	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.9209570	0.01	-12.21	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.8776442	0.01	-15.37	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	0.9500784	0.01	-18.24	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4322810	0.01	-2.86	50.00	AVRG
2-Fluorobiphenyl	2.0870000	2.1118935	0.01	1.19	50.00	AVRG
Terphenyl-d14	0.7270000	0.6794830	0.01	-6.54	50.00	AVRG

Data File: /chem/5972hp66.i/DS100527A66.b/0E27013-CCV1A66.d
Date : 27-MAY-2010 16:10
Client ID: SSTD3.00IN
Sample Info: SSTD3.00IN:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527A66.b/0E27013-CCV1A66.d
Report Date: 27-May-2010 16:45

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527A66.b/0E27013-CCV1A66.d
Lab Smp Id: 0E27013-CCV1 Client Smp ID: SSTD3.00IN
Inj Date : 27-MAY-2010 16:10
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IN:2730
Misc Info : SSTD3.00IN
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527A66.b/SIM_8270Cv2DOD.m
Meth Date : 27-May-2010 16:45 buddy Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.557	5.557	(1.000)	50485	2.00000	
*	2 Naphthalene-d8	136	7.812	7.812	(1.000)	158161	2.00000	
*	3 Acenaphthene-d10	164	11.230	11.230	(1.000)	64901	2.00000	
*	4 Phenanthrene-d10	188	14.114	14.114	(1.000)	103224	2.00000	
*	5 Chrysene-d12	240	19.344	19.344	(1.000)	71315	2.00000	
*	6 Perylene-d12	264	21.972	21.972	(1.000)	62291	2.00000	
$	9 Nitrobenzene-d5	82	6.574	6.574	(0.841)	102555	3.00000	2.9
$	10 2-Fluorobiphenyl	172	9.963	9.963	(0.887)	205596	3.00000	3.0
$	12 Terphenyl-d14	244	17.347	17.347	(0.897)	72686	3.00000	2.8
	13 Naphthalene	128	7.838	7.838	(1.003)	258023	3.00000	2.6
	15 2-Methylnaphthalene	141	9.168	9.168	(0.816)	129250	3.00000	2.8
	17 Acenaphthylene	152	10.917	10.917	(0.972)	209749	3.00000	2.9
	18 Acenaphthene	154	11.295	11.295	(1.006)	114211	3.00000	2.7
	21 Fluorene	166	12.286	12.286	(0.870)	128285	3.00000	2.7
	25 Phenanthrene	178	14.153	14.153	(1.003)	162149	3.00000	2.5

WS05-27-10

Data File: /chem/5972hp66.i/DS100527A66.b/0E27013-CCV1A66.d
Report Date: 27-May-2010 16:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.244	14.244	(1.009)	149810	3.00000	2.6
27 Fluoranthene	202	16.500	16.500	(0.853)	133029	3.00000	2.8
28 Pyrene	202	16.930	16.930	(0.875)	142049	3.00000	2.8
29 Benzo(a)anthracene	228	19.309	19.309	(0.998)	106140	3.00000	2.7
30 Chrysene	228	19.397	19.397	(1.003)	107142	3.00000	2.6
31 Benzo(b)fluoranthene	252	21.319	21.319	(0.970)	99240	3.00000	2.4
32 Benzo(k)fluoranthene	252	21.362	21.362	(0.972)	108607	3.00000	2.5
33 Benzo(a)pyrene	252	21.863	21.863	(0.995)	95292	3.00000	2.6
34 Indeno(1,2,3-cd)pyrene	276	24.040	24.040	(1.094)	86051	3.00000	2.6
35 Dibenzo(a,h)anthracene	278	24.094	24.094	(1.097)	82004	3.00000	2.5
36 Benzo(g,h,i)perylene	276	24.627	24.627	(1.121)	88772	3.00000	2.5

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/27/10 INITIAL TIME OF TUNE 1608 SHIFT/S (A) X (B)____ (C)____
TIME TUNE EXPIRES 0408
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAHSim SIM: (Y)N)
PREVENTIVE MAINTENANCE Front/Liner/Septum

	SEQUENCE#	REJECTED	FILENAME	REVIEWED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OE27013		NA	/	5/27/10	1608	FC43	—	2µL	2730	SCO ECCA
2	S100527A		OE27013-CCV1A66	/	/ /	1610	55TO3.00 IN	—			
3			OE20026A066	/	/ /	1644	OE20026 MN 5/28	100			
4			OE24002A066	/	/ /	1719	OE24002	—			
5		/	OE26001A066	IH	/ /	1753	OE26001	—			
6			0051720-BLK1JA066	/	/ /	1827	SBLKBE	1005129			
7			↓ -BS1JA066	/	/ /	1901	SBELCS				
8		/	1005129-05JA066	IH	/ /	1935	SS53-0-1				JS
9		/	0051720-MS1JA066	IH	/ /	2009	SS53-0-1MS				JS
10		/	↓ -MSD1JA066	IH	/ /	2043	SS53-0-1MSD				JS
11		/	1005129-01JA066	IH	/ /	2117	SS55-00-01		1		
12		/	-02JA066	IH	/ /	2151	SB55-00-2.5-3				JS
13		/	-03JA066	IH	/ /	2225	SS54-0-1				JS
14		/	-04JA066	IH	/ /	2259	SB54-4-5				
15		/	-06JA066	IH	/ ↓ /	2333	SB53-7-8				
16	MN 5/28/10	/	-07JA066	IH	5/28/10	0007	SS80-0-1				
17		/	-08A066	IH	/ /	0041	SB80-3-4				
18		/	-09A066	IH	/ /	0115	SS56-0-1				
19		/	-10A066	IH SL	/ /	0149	SB56-3-4				
20		/	↓ -11A066	IH	/ ↓ /	0321	SS58-0-1	↓	↓	↓	
21					/ /						
22					/ /		MN 5/28/10				
23					/ /						
24					/ /						

DFTPP Lot #/Exp. Date: NA
Calibration STD Lot#/Exp. Date: FullSim OE18067 8-18-10
Internal STD Lot#/Exp. Date: 040 OE18001 10-2-10
Methylene Chloride Lot#/Exp. Date: J10504 4-21-15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TM DATE 5/28/10
6/01/09:jr

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: 5972HP66 Calibration Date: 05/28/10 Time: 0356

Lab File ID: 0E28002-CCV1C6 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 0601 0816

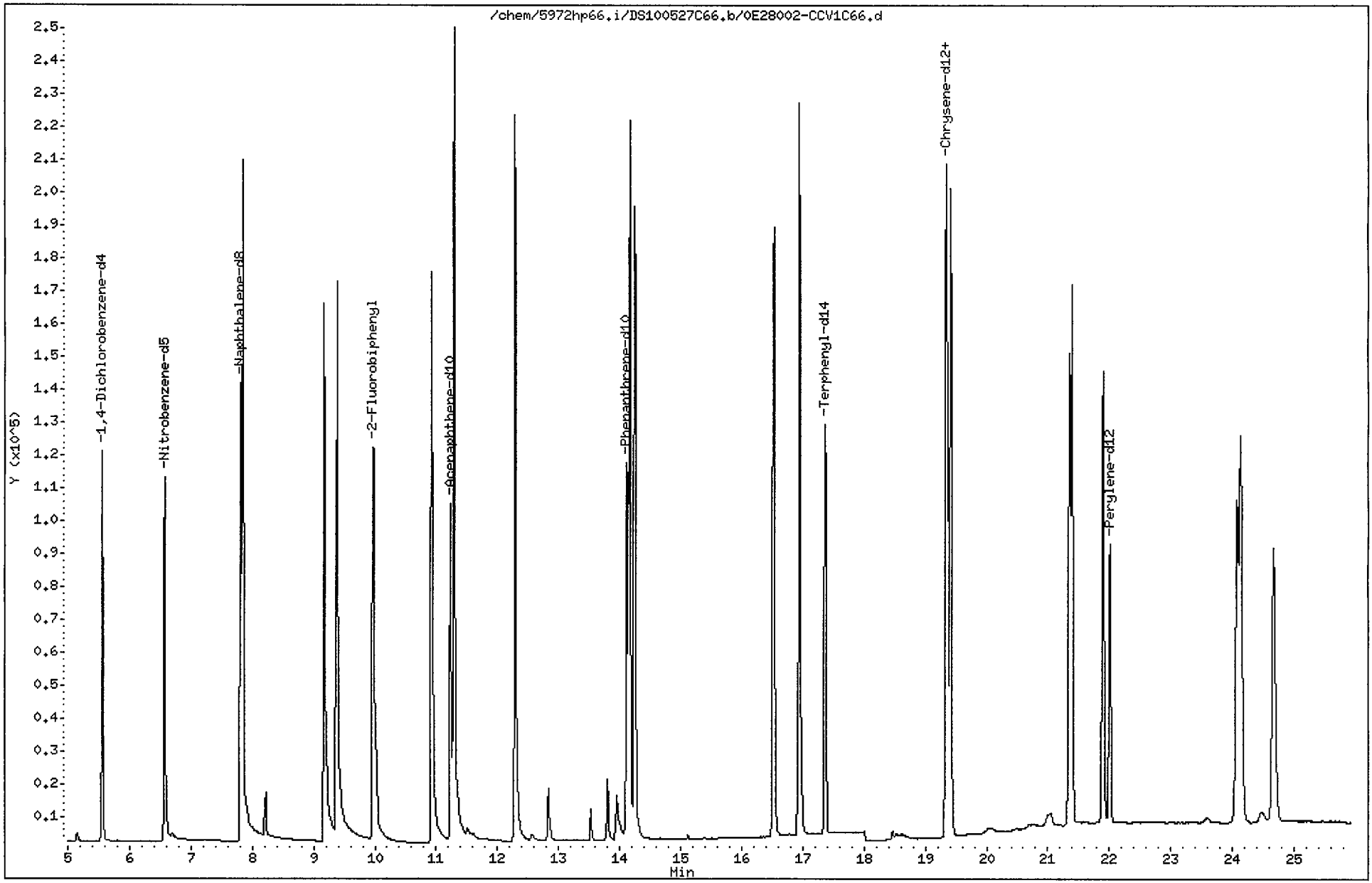
GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.0486315	0.01	-15.23	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.0893364	0.01	-23.93	50.00	AVRG
Acenaphthylene	2.2340000	2.0402998	0.01	-8.67	50.00	AVRG
Acenaphthene	1.3090000	1.1096415	0.01	-15.23	20.00	AVRG
Fluorene	0.9360000	0.7201548	0.01	-23.06	50.00	AVRG
Phenanthrene	1.2470000	1.0337199	0.01	-17.10	50.00	AVRG
Anthracene	1.1220000	1.0677433	0.01	-4.84	50.00	AVRG
Fluoranthene	1.3260000	1.1583891	0.01	-12.64	20.00	AVRG
Pyrene	1.4440000	1.2620376	0.01	-12.60	50.00	AVRG
Benzo(a)anthracene	1.0870000	1.0303174	0.01	-5.21	50.00	AVRG
Chrysene	1.1770000	1.0026450	0.01	-14.81	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.0063063	0.01	-23.71	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.3715344	0.01	-3.34	50.00	AVRG
Benzo(a)pyrene	1.1890000	1.0142612	0.01	-14.70	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.8619842	0.01	-17.83	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.8339848	0.01	-19.58	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	0.8891637	0.01	-23.48	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4633649	0.01	4.13	50.00	AVRG
2-Fluorobiphenyl	2.0870000	1.5263812	0.01	-26.86	50.00	AVRG
Terphenyl-d14	0.7270000	0.6507511	0.01	-10.49	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100527C66.b/0E28002-CCV1C66.d
Date : 28-MAY-2010 03:56
Client ID: SSTD3.00IP
Sample Info: SSTD3.00IP:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527C66.b/0E28002-CCV1C66.d
Report Date: 28-May-2010 04:35

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527C66.b/0E28002-CCV1C66.d
Lab Smp Id: 0E28002-CCV1 Client Smp ID: SSTD3.00IP
Inj Date : 28-MAY-2010 03:56
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IP:2743
Misc Info : SSTD3.00IP
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527C66.b/SIM_8270Cv2DOD.m
Meth Date : 28-May-2010 04:35 mweichel Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.560	5.560	(1.000)	64670	2.00000	
*	2 Naphthalene-d8	136	7.815	7.815	(1.000)	198198	2.00000	
*	3 Acenaphthene-d10	164	11.231	11.231	(1.000)	107362	2.00000	
*	4 Phenanthrene-d10	188	14.126	14.126	(1.000)	205329	2.00000	
*	5 Chrysene-d12	240	19.371	19.371	(1.000)	189165	2.00000	
*	6 Perylene-d12	264	22.004	22.004	(1.000)	150432	2.00000	
$	9 Nitrobenzene-d5	82	6.576	6.576	(0.842)	137757	3.00000	3.1
$	10 2-Fluorobiphenyl	172	9.978	9.978	(0.888)	245813	3.00000	2.2
$	12 Terphenyl-d14	244	17.372	17.372	(0.897)	184649	3.00000	2.7
	13 Naphthalene	128	7.841	7.841	(1.003)	311755	3.00000	2.5
	15 2-Methylnaphthalene	141	9.170	9.170	(0.817)	175430	3.00000	2.3
	17 Acenaphthylene	152	10.931	10.931	(0.973)	328576	3.00000	2.7
	18 Acenaphthene	154	11.296	11.296	(1.006)	178700	3.00000	2.5
	21 Fluorene	166	12.287	12.287	(0.870)	221803	3.00000	2.3
	25 Phenanthrene	178	14.165	14.165	(1.003)	318379	3.00000	2.5

MW 5/28/10

Data File: /chem/5972hp66.i/DS100527C66.b/0E28002-CCV1C66.d
Report Date: 28-May-2010 04:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
26 Anthracene	178	14.243	14.243	(1.008)	328858	3.00000	2.9
27 Fluoranthene	202	16.525	16.525	(0.853)	328690	3.00000	2.6
28 Pyrene	202	16.942	16.942	(0.875)	358100	3.00000	2.6
29 Benzo(a)anthracene	228	19.336	19.336	(0.998)	292350	3.00000	2.8
30 Chrysene	228	19.414	19.414	(1.002)	284498	3.00000	2.6
31 Benzo(b)fluoranthene	252	21.351	21.351	(0.970)	227071	3.00000	2.3
32 Benzo(k)fluoranthene	252	21.383	21.383	(0.972)	309484	3.00000	2.9
33 Benzo(a)pyrene	252	21.895	21.895	(0.995)	228866	3.00000	2.6
34 Indeno(1,2,3-cd)pyrene	276	24.083	24.083	(1.094)	194505	3.00000	2.5(M)
35 Dibenzo(a,h)anthracene	278	24.137	24.137	(1.097)	188187	3.00000	2.4
36 Benzo(g,h,i)perylene	276	24.671	24.671	(1.121)	200638	3.00000	2.3

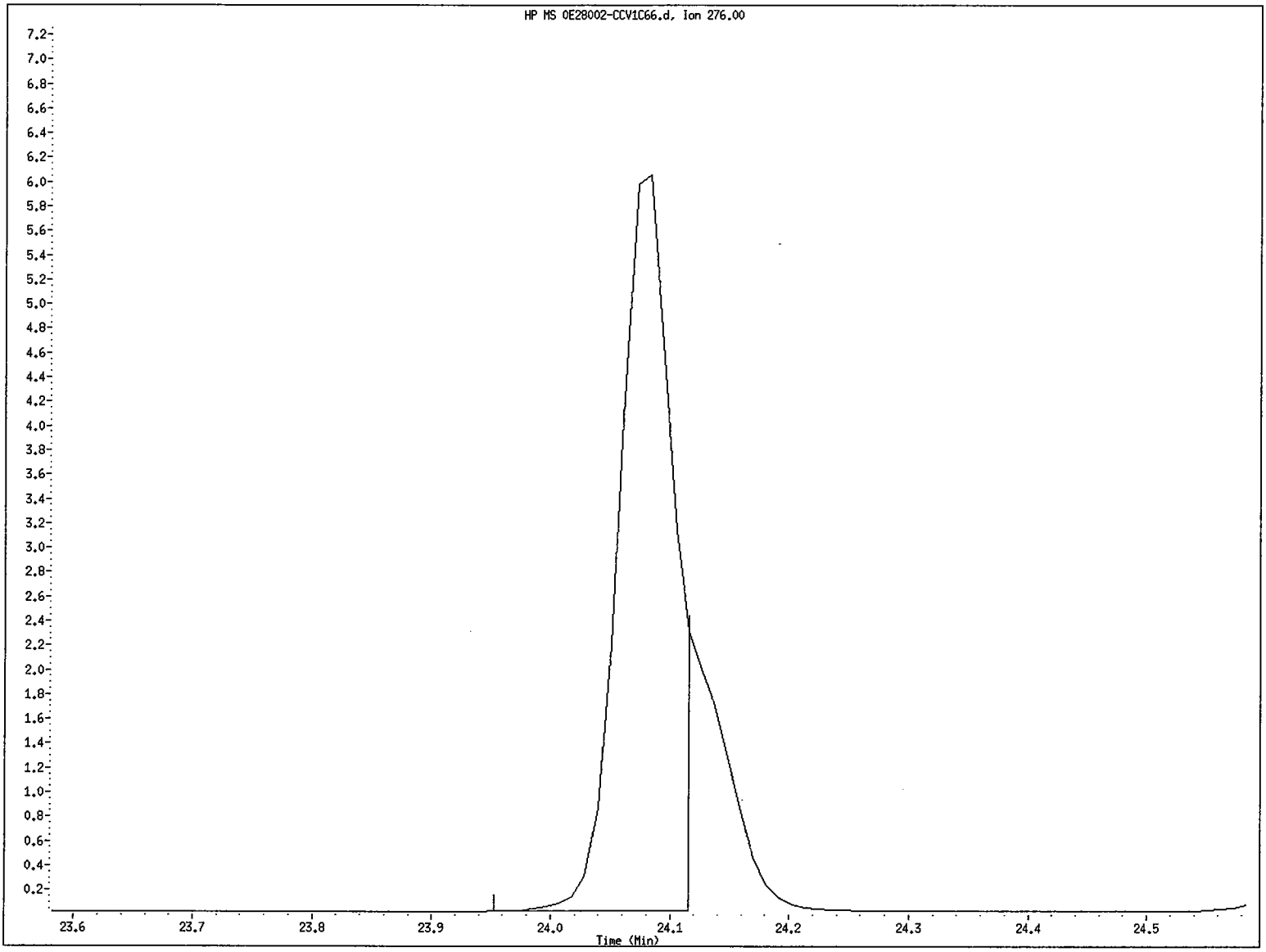
2
MW
5/28/10

QC Flag Legend

M - Compound response manually integrated.

pm
6/2/10

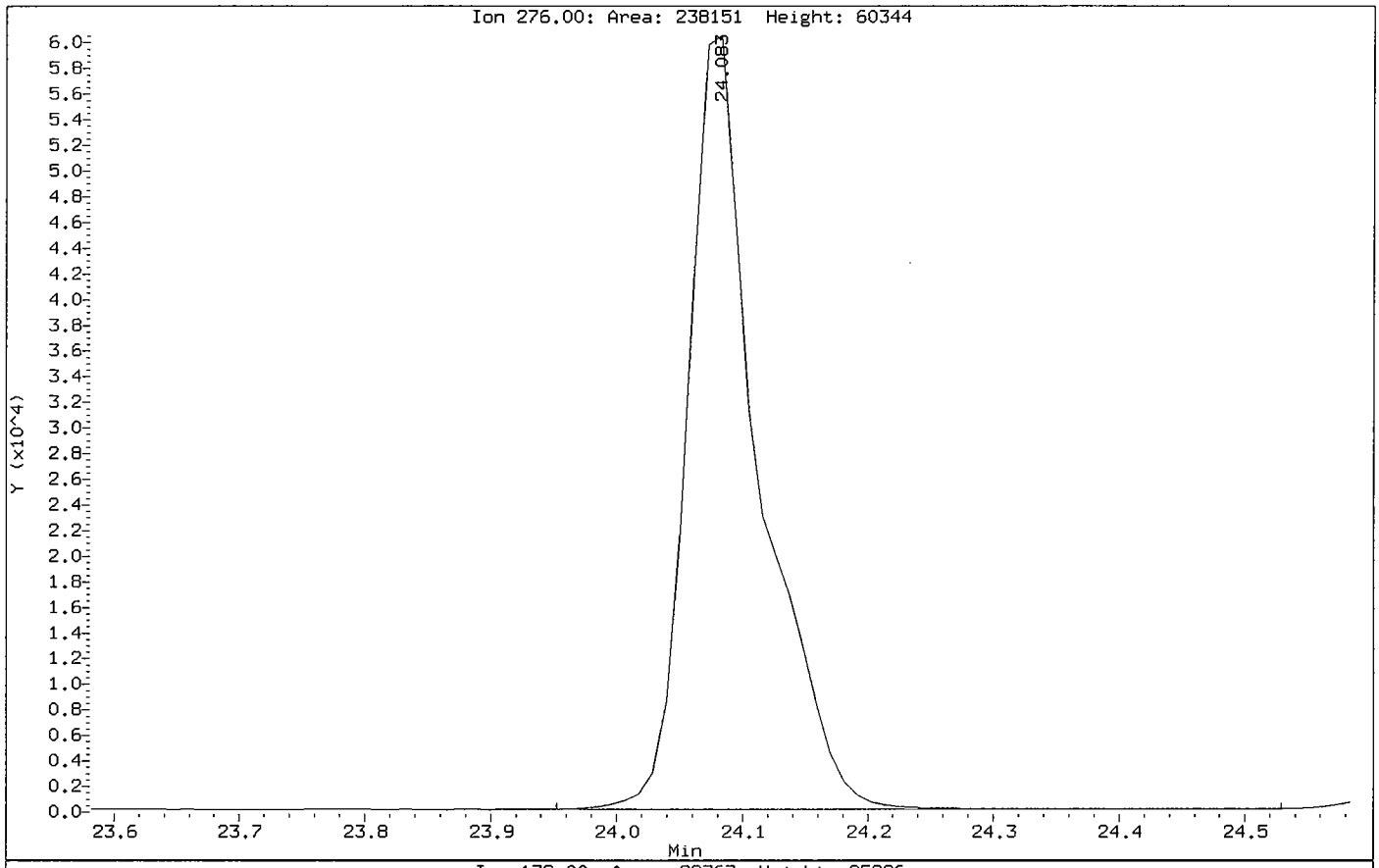
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 194505 Manually integrated

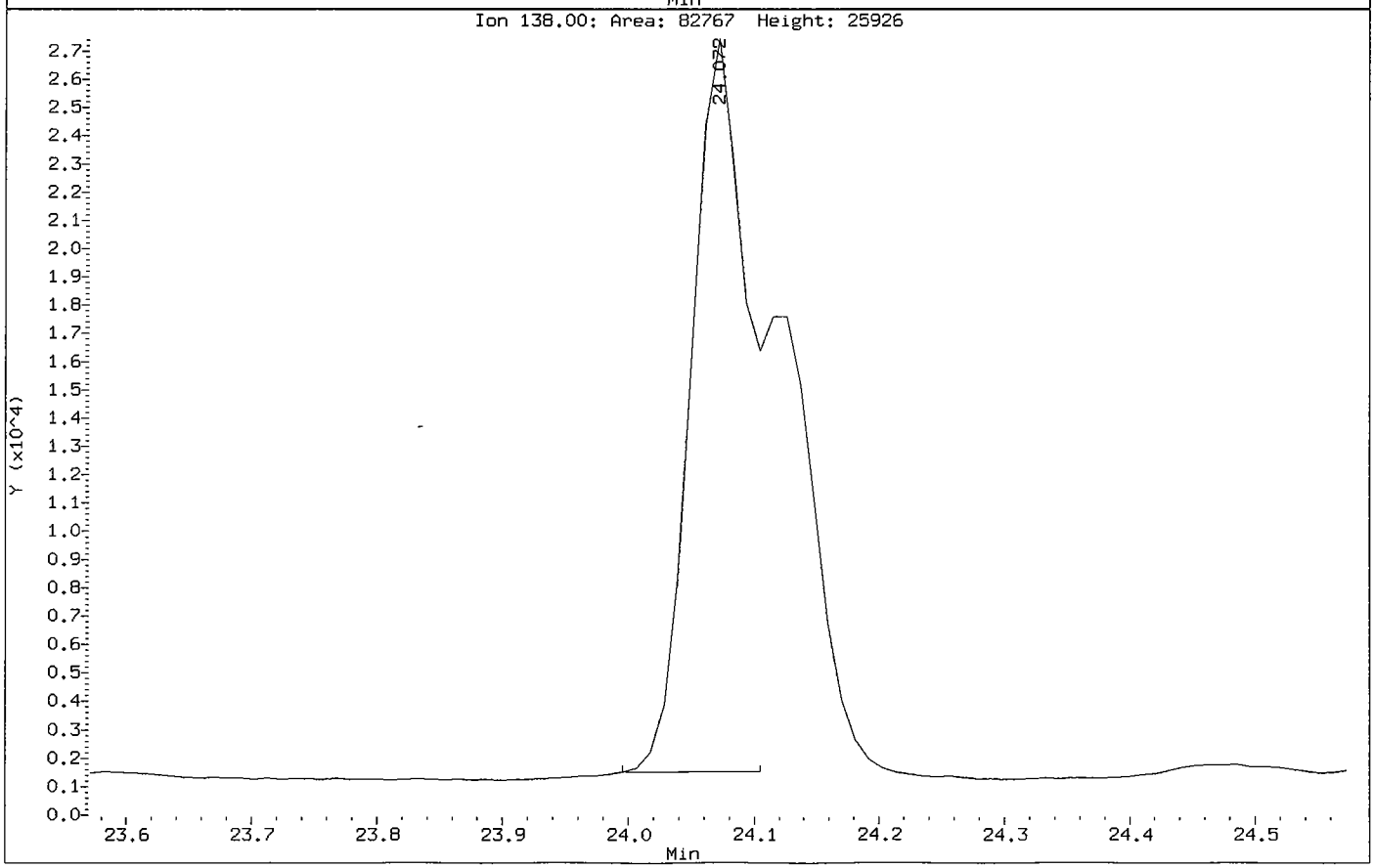


File name: /chem/5972hp66.i/DS100527C66.b/0E28002-CCV1C66.d
Client ID: SSTD3.00IP
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 03:56
Retention Time: 24.08
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100527C66.b/0E28002-CCV1C66.d
Injection Date: 28-MAY-2010 03:56
Instrument: 5972hp66.i
Client Sample ID: SSTD3.00IP

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/28/10 INITIAL TIME OF TUNE 0351 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1551
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM (Y/N)
PREVENTIVE MAINTENANCE none

	SEQUENCE#	REJECTED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OE28002	MM 5/28	OE28002 N/A	/	5/28/10	0351	FC43	—	N/A	2743	SCD=LCD
2	S100527C		OE28002-CCVICU06	/	/ /	0356	SSTD3.00IP	—	2µL		
3			OE26001JCU06	/	/ /	0431	OE26001	—			
4			1005129-01JCU06	/	/ /	0505	SS55-00-01	1005129			
5			-04JCU06	/	/ /	0539	SB54-4-5				
6			-06JCU06	/	/ /	0613	SB53-7-8				
7			-07JCU06	/	/ /	0647	SS80-0-1				
8			-08JC66	/	/ /	0721	SB80-3-4				
9			-09JC66	/	/ /	0755	SS56-0-1				
10			-10JC66	/	/ /	0829	SB56-3-4				
11		/	-11JC66	IH JS	/ /	0903	SS58-0-1				
12			-12C66	/	/ /	0937	SS52-0-1				
13			-13C66	/	/ /	1011	SS57-0-1				
14			-14C66	/	/ /	1045	SS60-00-01				
15			-15C66	/	/ /	1119	SS59-00-01				
16		/	-16C66	SL	/ /	1153	SB59-9-10				
17			-17C66	/	/ /	1228	SS85-0-1				
18			-18C66	/	/ /	1302	SS89-0-1				
19		/	-19C66	SL	/ /	1336	SB89-6.5-7.5				
20			-20C66	/	/ /	1410	SS78-0-1				
21					/ /						
22					/ /						
23					/ /						
24					/ /						

5/28/10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FULL SIM OE18007 8/18/10
Internal STD Lot#/Exp. Date: 040 OE18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10S04 4/21/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: _____ DATE 5/28/10

6/01/09:jr

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Instrument ID: 5972HP66 Calibration Date: 05/28/10 Time: 2137

Lab File ID: 0E28012-CCV1A6 Init. Calib. Date(s): 05/25/10 05/25/10

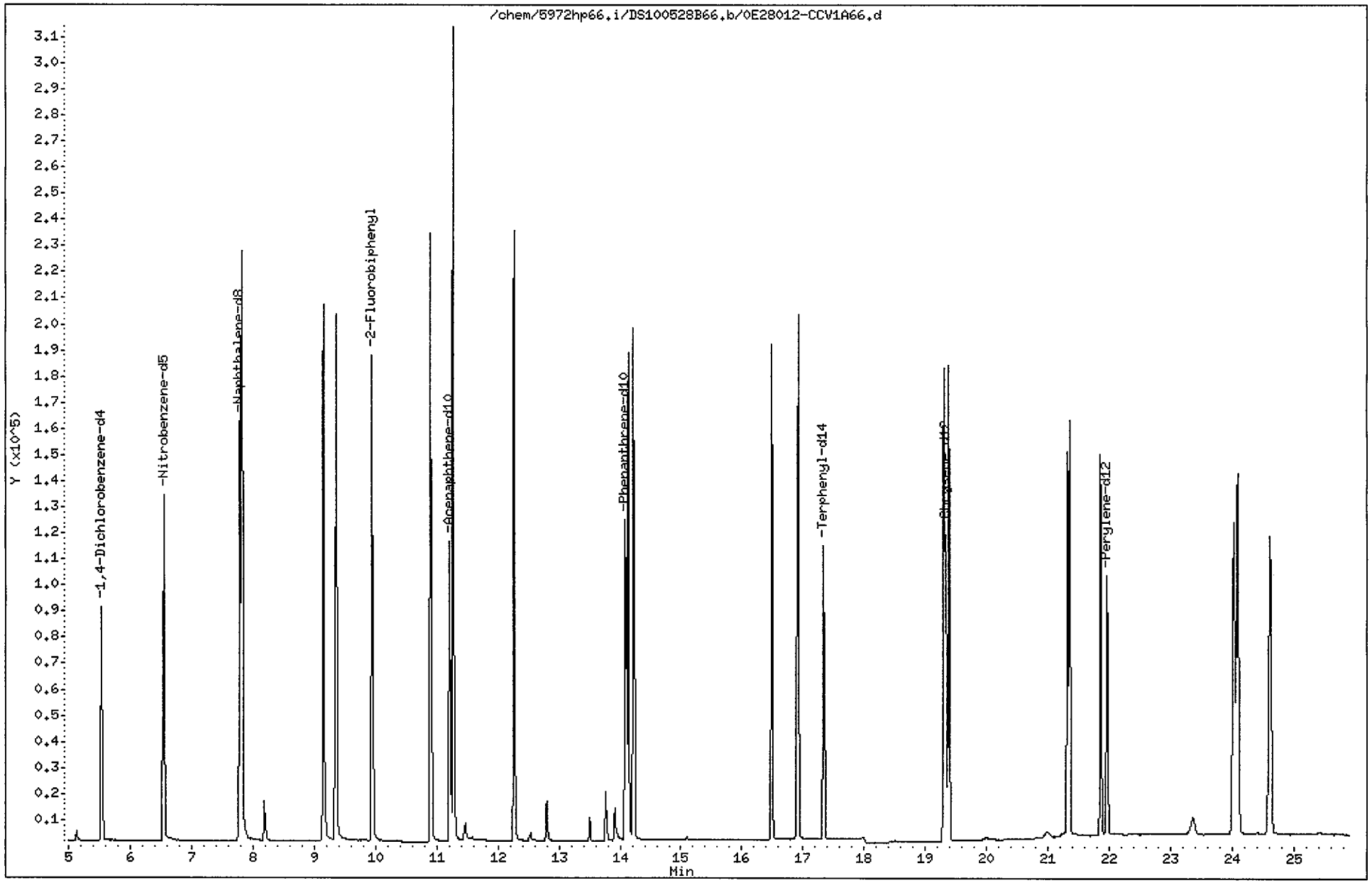
Init. Calib. Times: 0601 0816

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.0008856	0.01	-19.09	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.1561269	0.01	-19.26	50.00	AVRG
Acenaphthylene	2.2340000	1.9759504	0.01	-11.55	50.00	AVRG
Acenaphthene	1.3090000	1.1363007	0.01	-13.19	20.00	AVRG
Fluorene	0.9360000	0.7234244	0.01	-22.71	50.00	AVRG
Phenanthrene	1.2470000	0.9955482	0.01	-20.16	50.00	AVRG
Anthracene	1.1220000	0.9333364	0.01	-16.81	50.00	AVRG
Fluoranthene	1.3260000	1.1145092	0.01	-15.95	20.00	AVRG
Pyrene	1.4440000	1.1856764	0.01	-17.89	50.00	AVRG
Benzo(a)anthracene	1.0870000	0.9882184	0.01	-9.09	50.00	AVRG
Chrysene	1.1770000	0.9775465	0.01	-16.94	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.0351175	0.01	-21.52	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.1509756	0.01	-18.89	50.00	AVRG
Benzo(a)pyrene	1.1890000	0.9876990	0.01	-16.93	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.9484396	0.01	-9.59	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.9027068	0.01	-12.95	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	0.9836993	0.01	-15.34	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4355267	0.01	-2.13	50.00	AVRG
2-Fluorobiphenyl	2.0870000	1.8667312	0.01	-10.55	50.00	AVRG
Terphenyl-d14	0.7270000	0.5892570	0.01	-18.95	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100528B66.b/0E28012-CCV1A66.d
Date : 28-MAY-2010 21:37
Client ID: SSTD3.00IQ
Instrument: 5972hp66.i
Sample Info: SSTD3.00IQ:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100528B66.b/0E28012-CCV1A66.d
Report Date: 28-May-2010 22:12

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100528B66.b/0E28012-CCV1A66.d
Lab Smp Id: 0E28012-CCV1 Client Smp ID: SSTD3.00IQ
Inj Date : 28-MAY-2010 21:37
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IQ:2730
Misc Info : SSTD3.00IQ
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100528B66.b/SIM_8270Cv2DOD.m
Meth Date : 28-May-2010 22:12 buddy Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 1 1,4-Dichlorobenzene-d4	152	5.544	5.544	(1.000)	59565	2.00000		
* 2 Naphthalene-d8	136	7.786	7.786	(1.000)	213034	2.00000		
* 3 Acenaphthene-d10	164	11.217	11.217	(1.000)	97077	2.00000		
* 4 Phenanthrene-d10	188	14.088	14.088	(1.000)	176258	2.00000		
* 5 Chrysene-d12	240	19.337	19.337	(1.000)	149301	2.00000		
* 6 Perylene-d12	264	21.961	21.961	(1.000)	133675	2.00000	(M)	
$ 9 Nitrobenzene-d5	82	6.548	6.548	(0.841)	139173	3.00000	2.9	
$ 10 2-Fluorobiphenyl	172	9.950	9.950	(0.887)	271825	3.00000	2.7	
$ 12 Terphenyl-d14	244	17.334	17.334	(0.896)	131965	3.00000	2.4	
13 Naphthalene	128	7.825	7.825	(1.005)	319834	3.00000	2.4	
15 2-Methylnaphthalene	141	9.155	9.155	(0.816)	168350	3.00000	2.4	
17 Acenaphthylene	152	10.904	10.904	(0.972)	287729	3.00000	2.7	
18 Acenaphthene	154	11.269	11.269	(1.005)	165463	3.00000	2.6	
21 Fluorene	166	12.272	12.272	(0.871)	191264	3.00000	2.3	
25 Phenanthrene	178	14.140	14.140	(1.004)	263210	3.00000	2.4	

2nd 05-28-10

RW 6/2/10

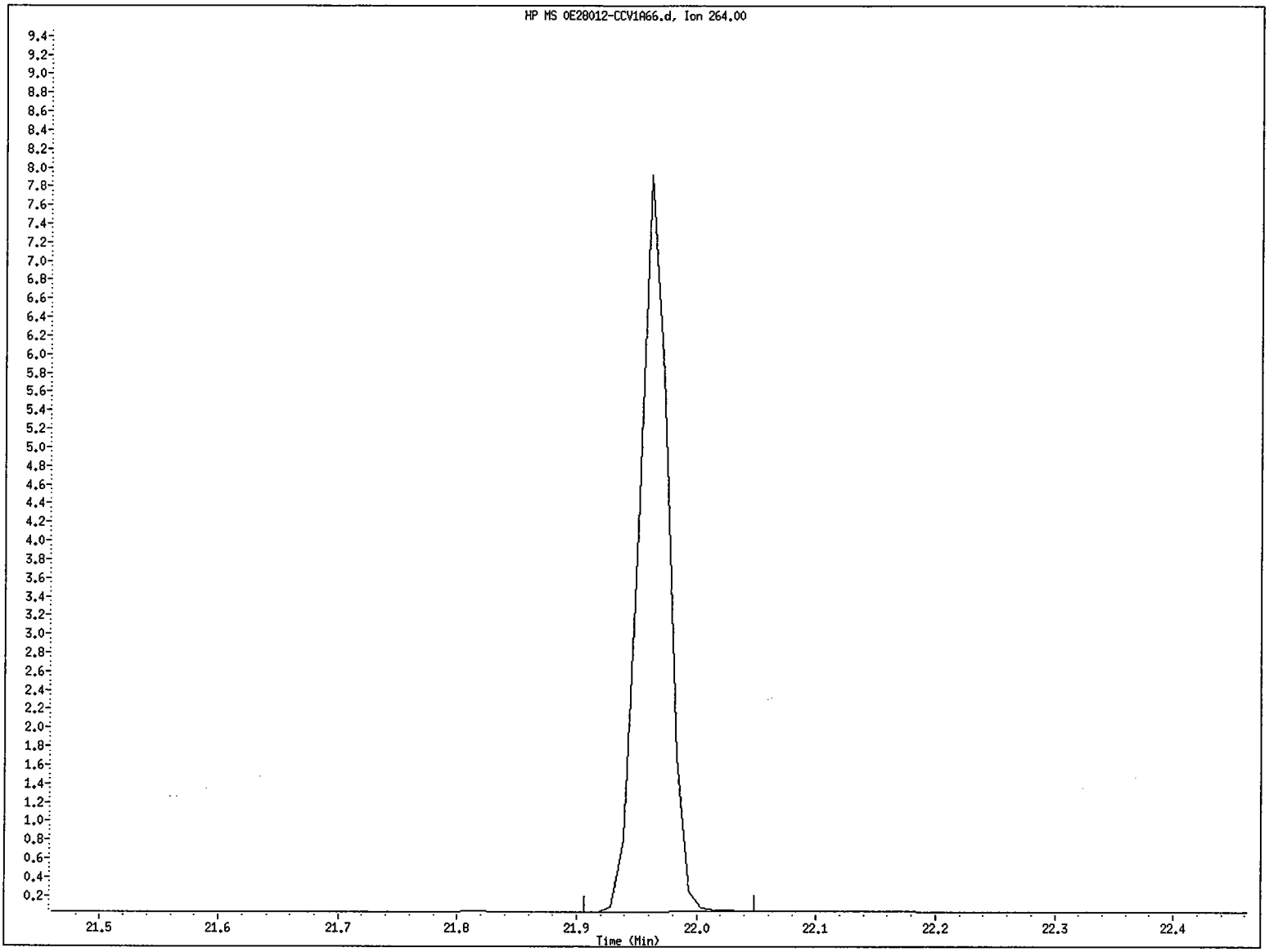
Data File: /chem/5972hp66.i/DS100528B66.b/0E28012-CCV1A66.d
Report Date: 28-May-2010 22:12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.218	(1.009)	246762	3.00000	2.5
27 Fluoranthene	202	16.486	16.486	(0.853)	249596	3.00000	2.5
28 Pyrene	202	16.917	16.917	(0.875)	265534	3.00000	2.5
29 Benzo(a)anthracene	228	19.302	19.302	(0.998)	221313	3.00000	2.7
30 Chrysene	228	19.380	19.380	(1.002)	218923	3.00000	2.5
31 Benzo(b)fluoranthene	252	21.308	21.308	(0.970)	207554	3.00000	2.4
32 Benzo(k)fluoranthene	252	21.351	21.351	(0.972)	230785	3.00000	2.4
33 Benzo(a)pyrene	252	21.852	21.852	(0.995)	198046	3.00000	2.5
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.018	(1.094)	190174	3.00000	2.7
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.097)	181004	3.00000	2.6
36 Benzo(g,h,i)perylene	276	24.606	24.606	(1.120)	197244	3.00000	2.5

QC Flag Legend

M - Compound response manually integrated.

Perylene-d12 CAS Number 1520-96-3 Area = 133675 Manually integrated



File name: /chem/5972hp66.i/DS100528B66.b/0E28012-CCV1A66.d
Client ID: SSTD3.00IQ
Instrument ID: 5972hp66.i
Injection Date and Time: 28-MAY-2010 21:37
Retention Time: 21.96
Operator ID: 2730

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/28/10 INITIAL TIME OF TUNE 2027 SHIFT/S (A) ✓ (B)____ (C)____
TIME TUNE EXPIRES 0827
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y)N)
PREVENTIVE MAINTENANCE Front/Liner/Septa

	SEQUENCE#	REJECTED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
MW 5/29 1	~~OE28009~~		N/A	/	5/28/10	2027	FC43	–	N/A	2730	SCD=LCD
2	OE28012		OE28012-CCV1AU66	/	/ /	2137	SSTD3.00IQ	–	2µL	↓	
3	S1005288	/	1005129-16JAU66	SL	/ /	2211	SB59-9-10	1005129	↓	↓	
4			↓ -19JAU66	/	/ /	2245	SB89-6.5-7.5	↓	↓	↓	
5		/	0051831-BLK1AU66	IL	/ /	2319	SBLKBK	1005130	↓	↓	
6					/ /						
7					/ /						
8					/ /						
9					/ /						
10					/ /						
11					/ /						
12					/ /						
13					/ /						
14					/ /						
15					/ /						
16					/ /						
17					/ /						
18					/ /						
19					/ /						
20					/ /						
21					/ /						
22					/ /						
23					/ /						
24					/ /						

MW 5/29/10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FULL SIM OE18007 8/18/10
Internal STD Lot#/Exp. Date: 040 OE18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10804 4/21/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TM DATE 5/30/10
6/01/09:jr

4. Raw QC Data

   a. DFTPP/PFTBA Data

   b. Blank Data

   c. Laboratory Control Sample Data

   d. Matrix Spike Data

   e. Matrix Spike Duplicate Data

a. DFTPP/PFTBA Data

For each 12 hour period, per instrument utilized, include:

- Bar Graph spectrum and Tabulated Relative Abundances

- Mass listing

- Reconstructed ion chromatogram

- Tailing Factors for Benzidine and Pentachlorophenol

- Determination of DDT Breakdown

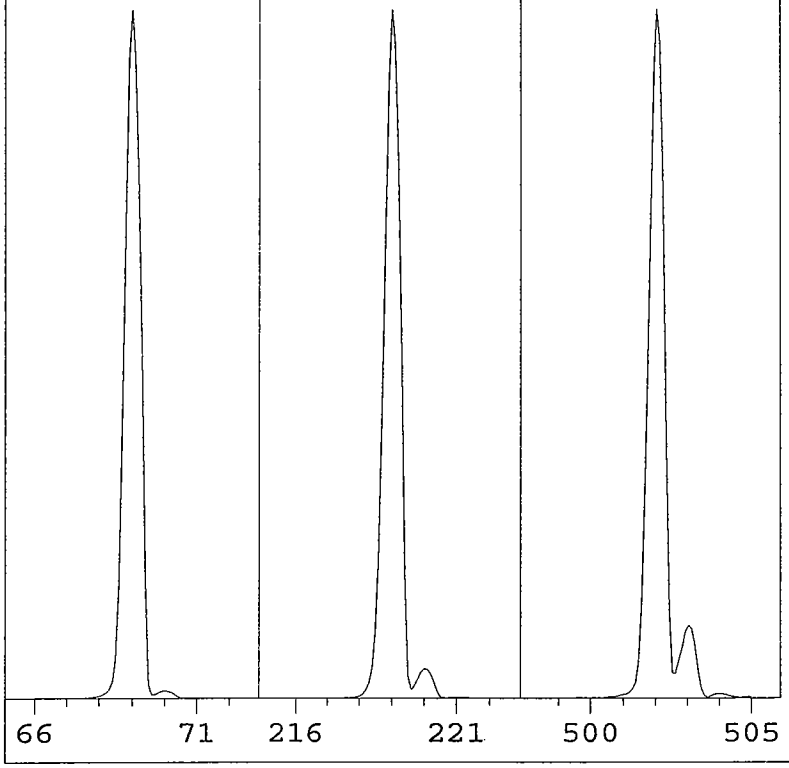
-PFTBA (FC-43) Scan

HP5972

Instrument: GC/MS Instrument #1
Mon May 24 00:55:28 2010 C:\HPCHEM\1\5972\SIM.U

660

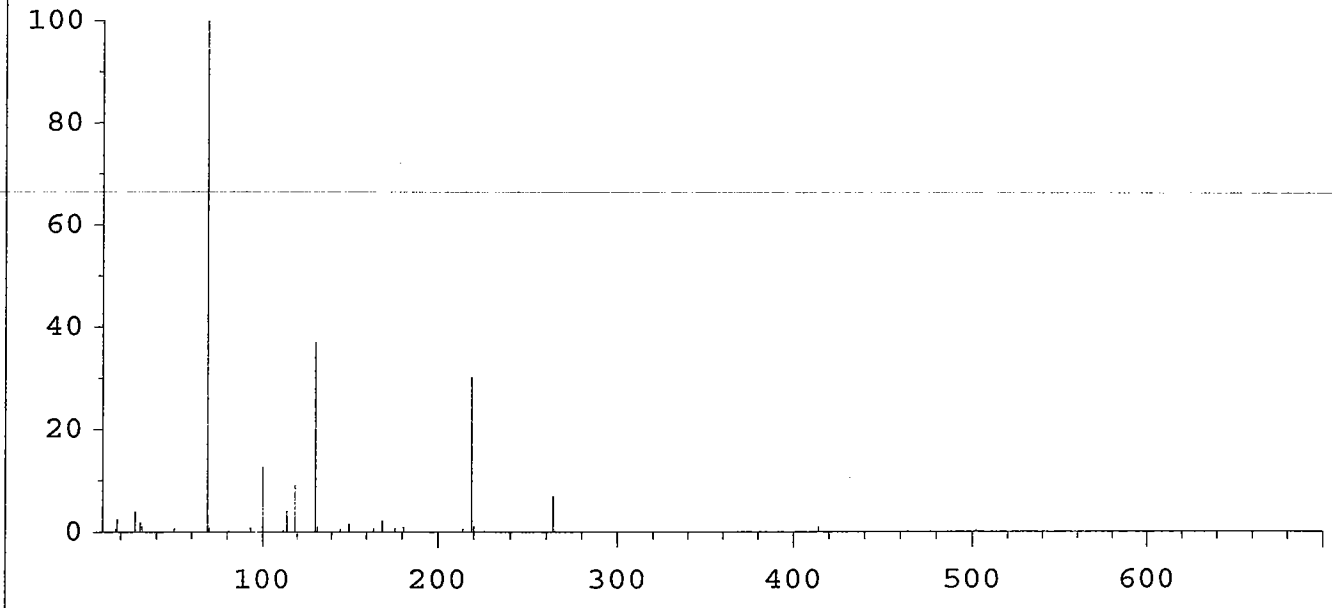
Mass	69.00	Mass	218.95	Mass	502.00
Ab	3519995	Ab	1083056	Ab	17887
Pw50	0.56	Pw50	0.56	Pw50	0.57



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	183	TTI	OFF
Vacuum	54	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

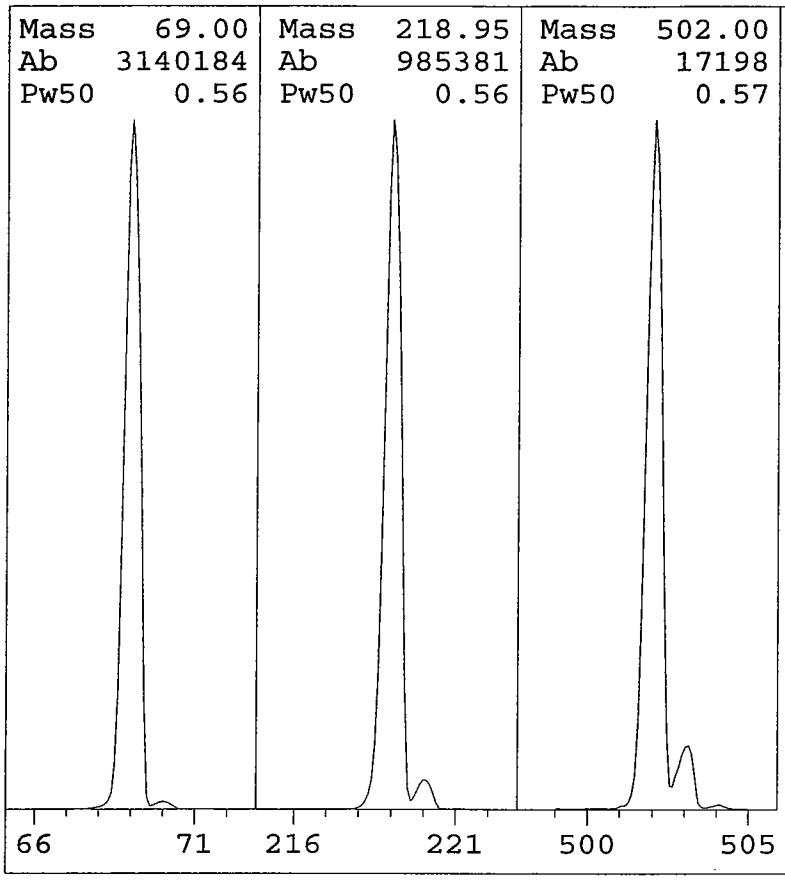
Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
201 peaks Base: 69.00 Abundance: 3097600



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	3097600	100.00	69.95	32608	1.05
218.95	934656	30.17	219.95	39680	4.25
502.00	16456	0.53	503.00	1614	9.81

HP5972

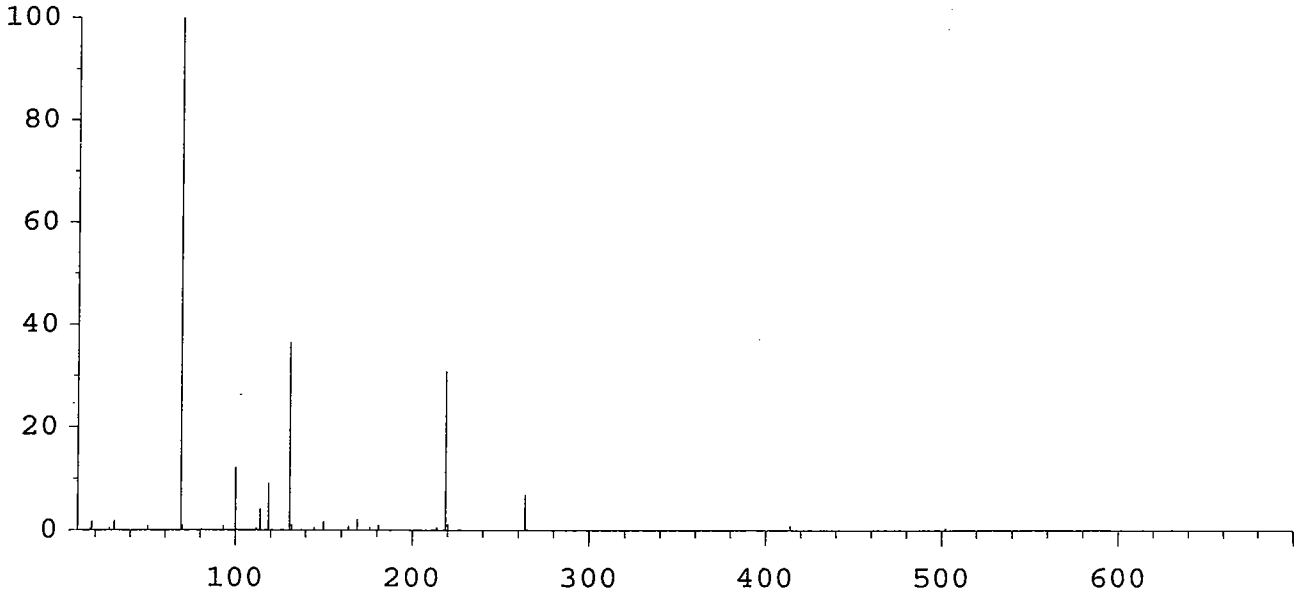
Instrument: GC/MS Instrument #1
Mon May 24 11:43:50 2010 C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	181	TTI	OFF
Vacuum	53	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
192 peaks Base: 69.00 Abundance: 2738688

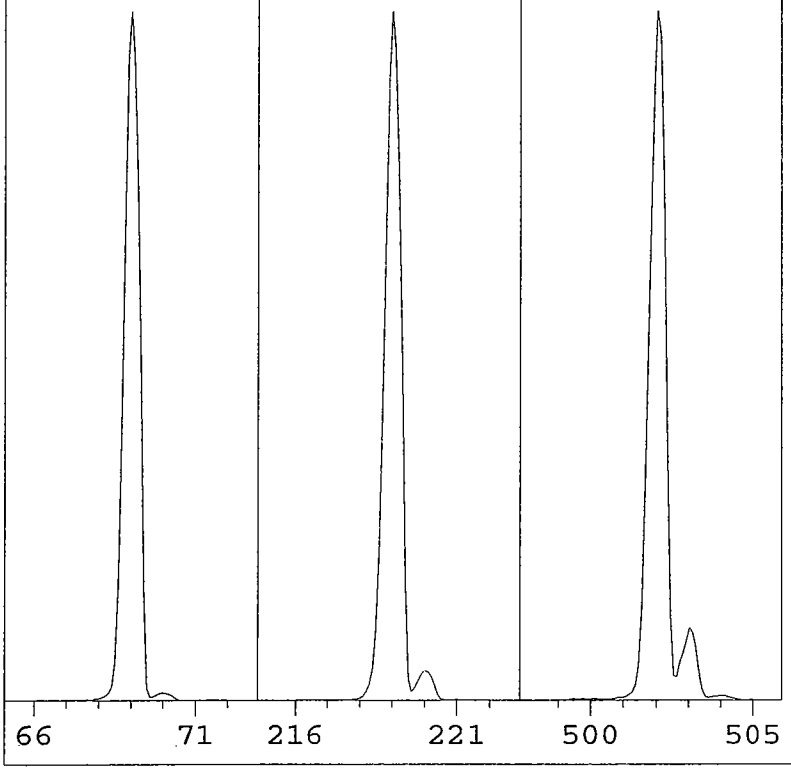


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2738688	100.00	69.95	28936	1.06
218.95	848000	30.96	219.95	36528	4.31
502.00	15097	0.55	503.00	1519	10.06

HP5972

Instrument: GC/MS Instrument #1
Tue May 25 05:59:20 2010 C:\HPCHEM\1\5972\SIM.U

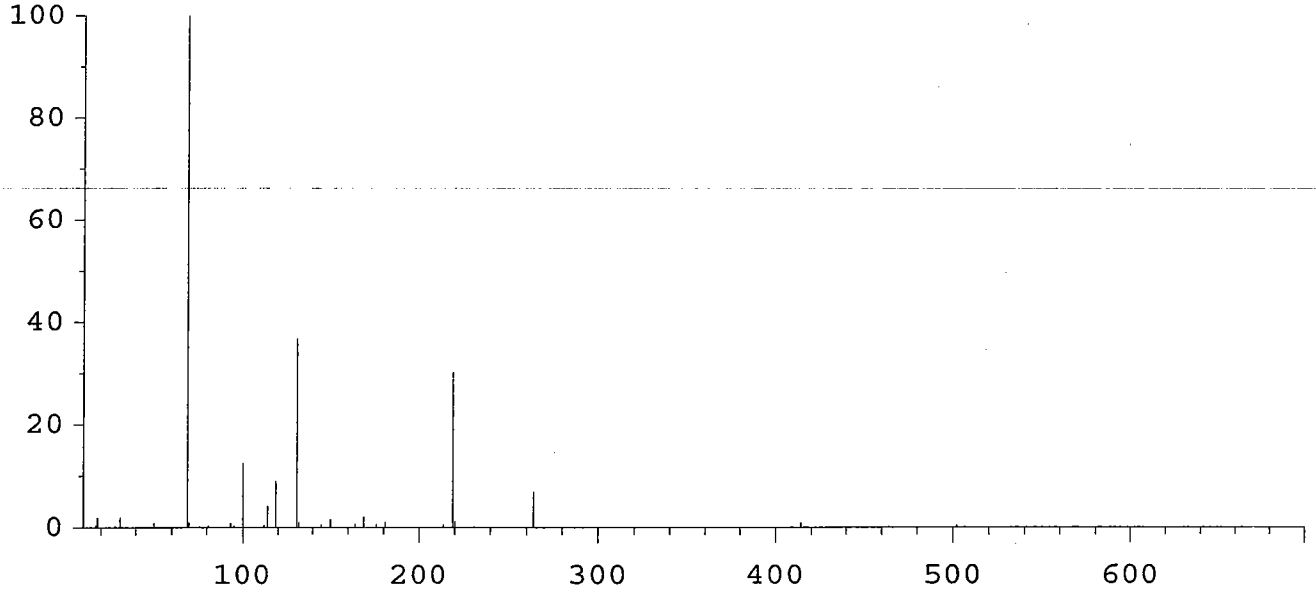
Mass	69.00	Mass	218.95	Mass	502.00
Ab	3135709	Ab	844056	Ab	15005
Pw50	0.56	Pw50	0.56	Pw50	0.58



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	181	TTI	OFF
Vacuum	53	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

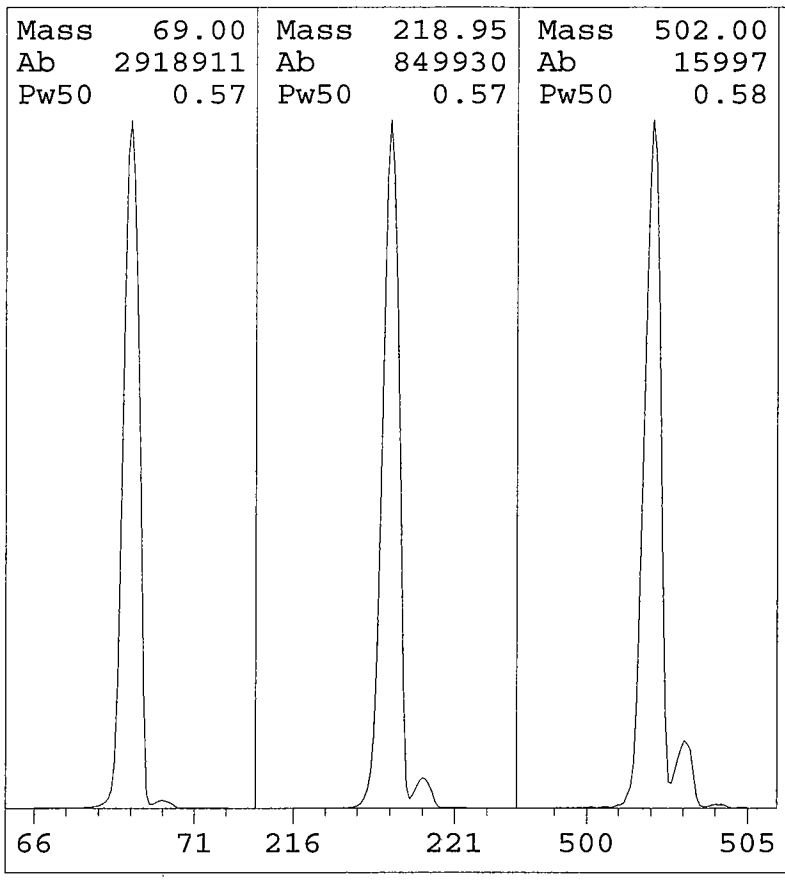
Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
189 peaks Base: 69.00 Abundance: 2428928



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2428928	100.00	69.95	25704	1.06
218.95	736000	30.30	220.00	32008	4.35
502.00	13063	0.54	503.00	1355	10.37

HP5972

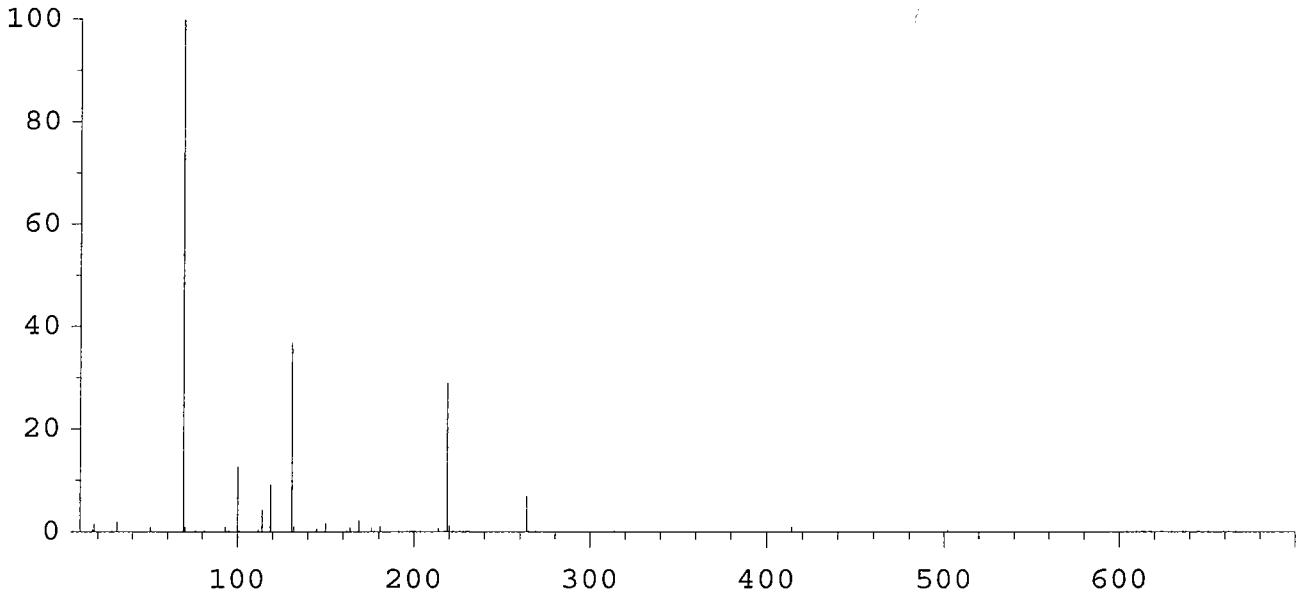
Instrument: GC/MS Instrument #1
Thu May 27 16:08:13 2010 C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	184	TTI	OFF
Vacuum	53	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

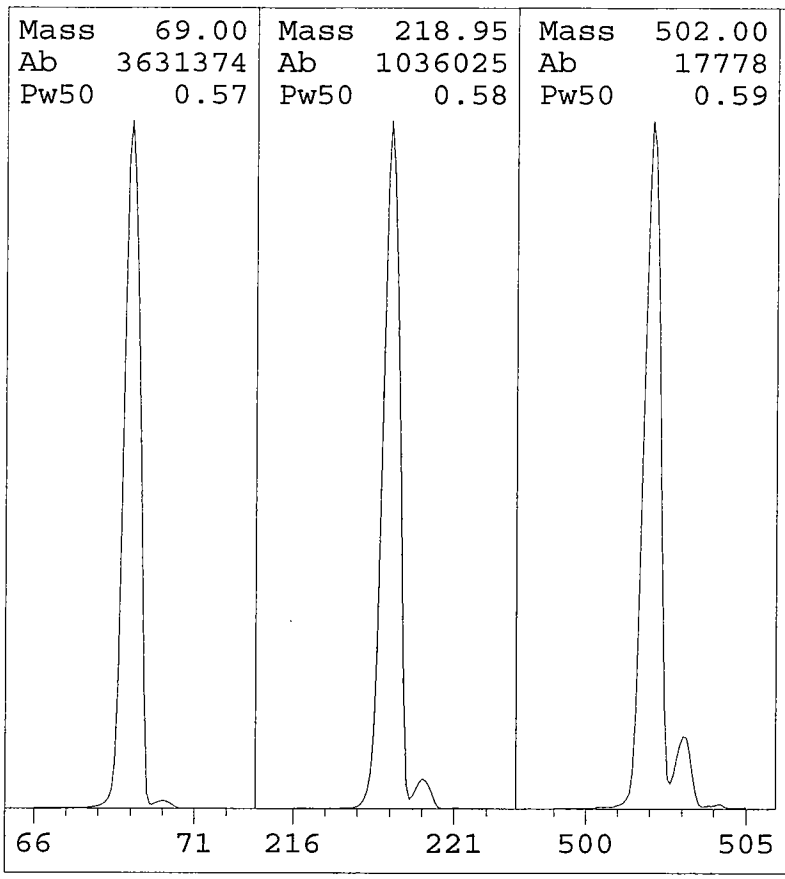
Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
213 peaks Base: 69.00 Abundance: 2578432



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2578432	100.00	69.95	27024	1.05
218.95	748800	29.04	219.95	31976	4.27
502.00	13528	0.52	503.10	1544	11.41

HP5972

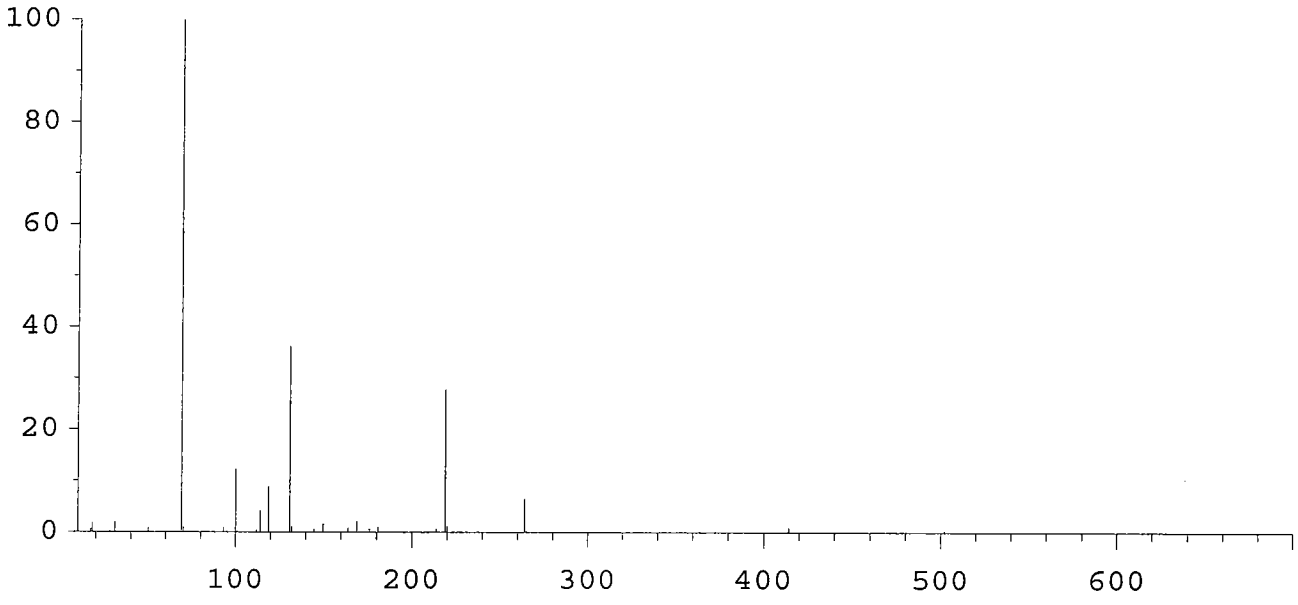
Instrument: GC/MS Instrument #1
Fri May 28 03:51:33 2010 C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	184	TTI	OFF
Vacuum	50	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
219 peaks Base: 69.00 Abundance: 3214848

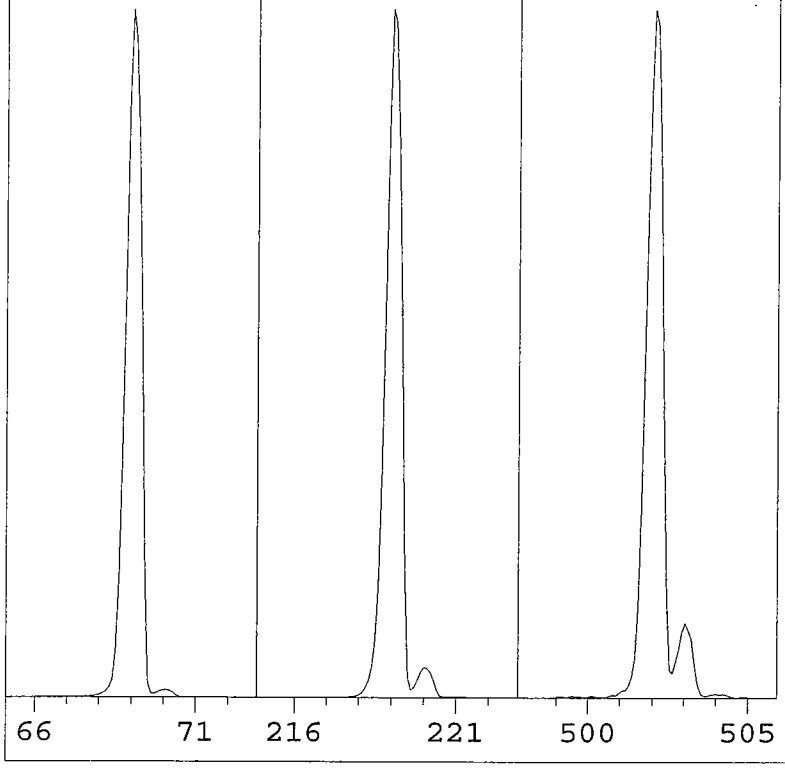


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	3214848	100.00	69.95	34688	1.08
218.95	895744	27.86	219.95	37712	4.21
502.00	16364	0.51	503.00	1635	9.99

HP5972

Instrument: GC/MS Instrument #1
Fri May 28 20:27:05 2010 C:\HPCHEM\1\5972\SIM.U

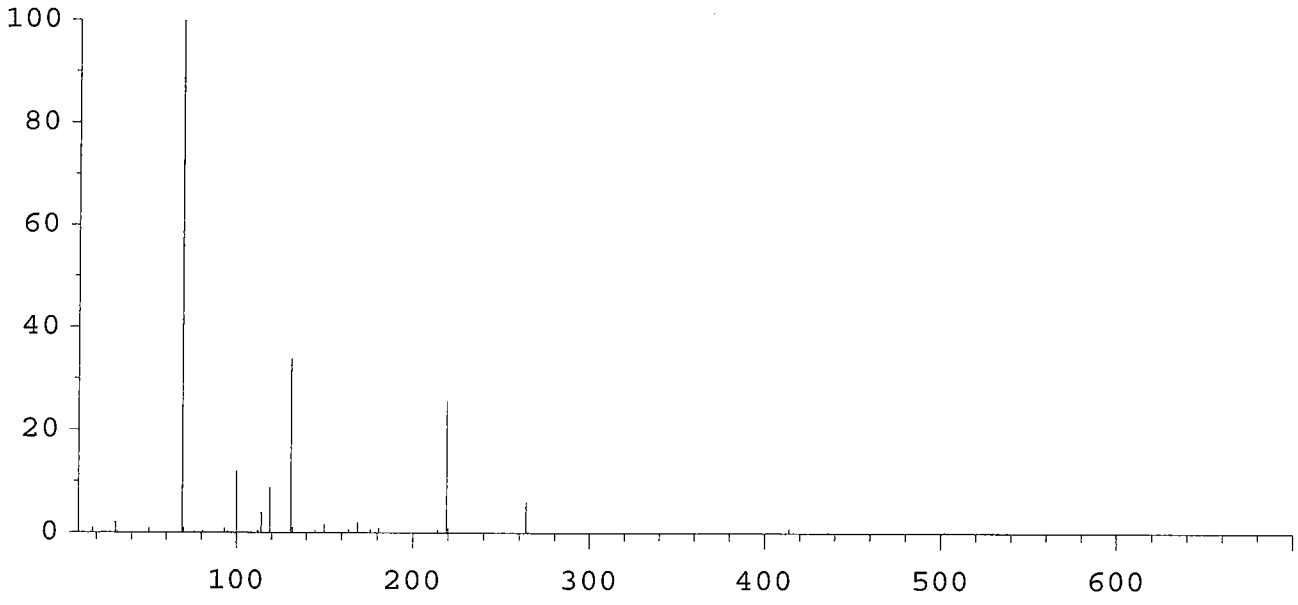
Mass	69.00	Mass	218.95	Mass	502.00
Ab	2793455	Ab	711622	Ab	12163
Pw50	0.55	Pw50	0.55	Pw50	0.58



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.001
MS Temp	182	TTI	OFF
Vacuum	52	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
178 peaks Base: 69.10 Abundance: 2373120



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.10	2373120	100.00	70.05	26536	1.12
219.05	609728	25.69	220.00	26080	4.28
502.00	10728	0.45	503.00	1125	10.49

b. Blank Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I SV)
- Tentatively Identified Compounds (Form I SV-TIC)
- Reconstructed Ion Chromatogram and quantitation report.
- Target compound spectra with lab-generated standard spectra.
- Quantitation/Calculation of TIC concentrations.
- GC/MS library search spectra for TICs.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SBLKBE

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051720-BLK1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051720-BLK1JA66
Analyst: 2730

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

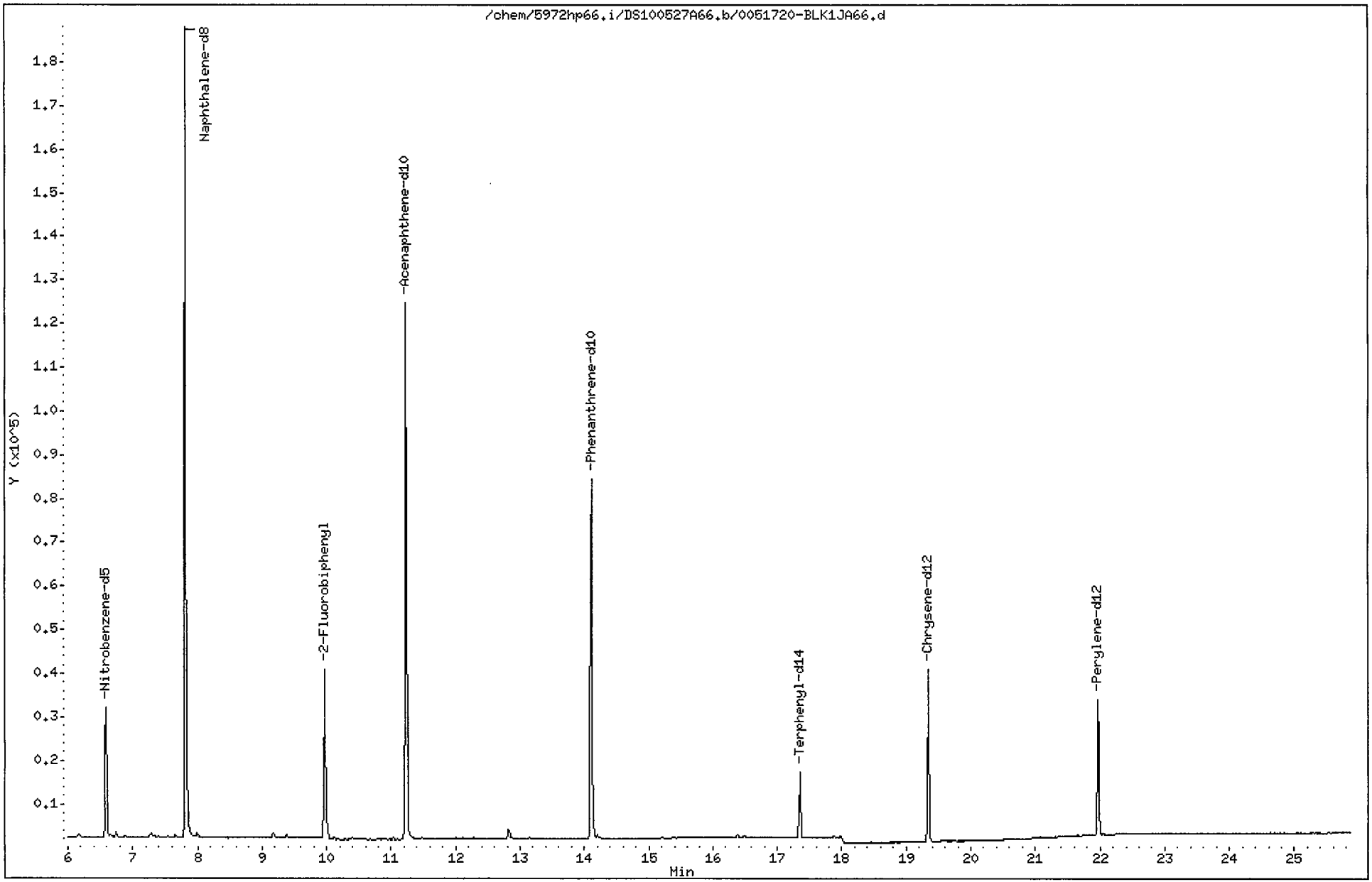
Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	ND	U
91-57-6	2-Methylnaphthalene	0.68	8.3	ND	U
208-96-8	Acenaphthylene	0.53	8.3	ND	U
83-32-9	Acenaphthene	0.60	8.3	ND	U
86-73-7	Fluorene	0.45	8.3	ND	U
85-01-8	Phenanthrene	1.3	8.3	ND	U
120-12-7	Anthracene	0.43	8.3	ND	U
206-44-0	Fluoranthene	1.3	8.3	ND	U
129-00-0	Pyrene	0.57	8.3	ND	U
56-55-3	Benzo(a)anthracene	0.57	8.3	ND	U
218-01-9	Chrysene	0.63	8.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.57	8.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.43	8.3	ND	U
50-32-8	Benzo(a)pyrene	0.38	8.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100527A66.b/0051720-BLK1JA66.d
Date : 27-MAY-2010 18:27
Client ID: SBLKBE
Instrument: 5972hp66.i
Sample Info: 0051720-BLK1:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527A66.b/0051720-BLK1JA66.d
Report Date: 01-Jun-2010 16:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527A66.b/0051720-BLK1JA66.d
Lab Smp Id: 0051720-BLK1 Client Smp ID: SBLKBE
Inj Date : 27-MAY-2010 18:27
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 0051720-BLK1:2730
Misc Info : SBLKBE
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 16:49 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.586	5.557	(1.000)	82562	2.00000		(a)
* 2 Naphthalene-d8	136	7.815	7.812	(1.000)	248470	2.00000		(a)
* 3 Acenaphthene-d10	164	11.230	11.230	(1.000)	92983	2.00000		(a)
* 4 Phenanthrene-d10	188	14.114	14.114	(1.000)	122675	2.00000		(a)
* 5 Chrysene-d12	240	19.345	19.344	(1.000)	53421	2.00000		(a)
* 6 Perylene-d12	264	21.971	21.972	(1.000)	41970	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.590	6.574	(0.843)	34889	0.63103	11	
$ 10 2-Fluorobiphenyl	172	9.966	9.963	(0.887)	59533	0.61356	10	
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	19009	0.97933	16	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100527A66.b/0051720-BLK1JA66.d
Report Date: 01-Jun-2010 16:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

ASSIGNED TO: B. Patterson

EXTRACTION WORKSHEET

Low Level Soil S-V Method 3550B for 8270C

CompuChem

176 SIM 5-18-1

EMP ID NUMBER: 2713

DATE/TIME EXTRACTED: 5-18-10 @ 1025

BATCH NO. 0051720

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE WEIGHT (g)	FINAL VOLUME (ml)	COMMENTS
1	0051720-BLK1	SBLKBE	MB	30.0	1.0	TMW 5-18-10
2	0051720-BS1	SBELCS	LCS	30.0	1.0	
3	0051720-MS1	SS53-0-1MS	MS	30.0	1.0	GPC (3640A) PERFORMED Y (N)
4	0051720-MSD1	SS53-0-1MSD	MSD	30.0	1.0	
5	1005129-01	SS55-00-01	SAMPLE	30.0	1.0	
6	1005129-02	SB55-00-2.5-3	SAMPLE	30.0	1.0	TMW 5-18-10
7	1005129-03	SS54-0-1	SAMPLE	30.0	1.0	
8	1005129-04	SB54-4-5	SAMPLE	30.0	1.0	
9	1005129-05	SS53-0-1	SAMPLE	30.0	1.0	QC
10	1005129-06	SB53-7-8	SAMPLE	30.0	1.0	
11	1005129-07	SS80-0-1	SAMPLE	30.0	1.0	
12	1005129-08	SB80-3-4	SAMPLE	30.0	1.0	
13	1005129-09	SS56-0-1	SAMPLE	30.0	1.0	
14	1005129-10	SB56-3-4	SAMPLE	30.0	1.0	
15	1005129-11	SS58-0-1	SAMPLE	30.0	1.0	
16	1005129-12	SS52-0-1	SAMPLE	30.0	1.0	
17	1005129-13	SS57-0-1	SAMPLE	30.0	1.0	TMW 5-18-10
18	1005129-14	SS60-00-01	SAMPLE	30.0	1.0	
19	1005129-15	SS59-00-01	SAMPLE	30.0	1.0	
20	1005129-16	SB59-9-10	SAMPLE	30.0	1.0	
21	1005129-17	SS85-0-1	SAMPLE	30.0	1.0	
22	1005129-18	SS89-0-1	SAMPLE	30.0	1.0	
23	1005129-19	SB89-6.5-7.5	SAMPLE	30.0	1.0	
24	1005129-20	SS78-0-1	SAMPLE	30.0	1.0	
25						
26		TMW 5-18-10				

		SAVOL	Others
SURROGATE	NO.	DIL. 393	
	AMT.	0.5 ml	
	LOT	62924	
SPIKE	NO.		SIM VALID. SPK
	AMT.		0.5 mL
	LOT		082109-03

FINAL VOLUME VERIFIED: J. M. Williams

REVIEWED BY:

SURROGATE & SPIKE ADDED BY: BFP / 5-18-10
Initials Date

Witness VG / 5-18-10
Initials Date

Analyst initials. Extracted BFP KD TMW N2 ~~N~~ TMW Bottle up TMW

Balance ID: Sartorius BL310

Manufacturer and lot number of reagents/solvents used 50/50 CH_2Cl_2/CH_3COCH_3 - 2X48-649-1, ~~Na_2SO_4 648-4~~ Na_2SO_4 - 2X48-648-4, CH_2Cl_2 - J17500 BFP 5-18-10

12/29/09: RM

c. Laboratory Control Sample Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I SV)

- Reconstructed Ion Chromatogram and quantitation report

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SBELCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051720-BS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051720-BS1JA66
Analyst: 2730

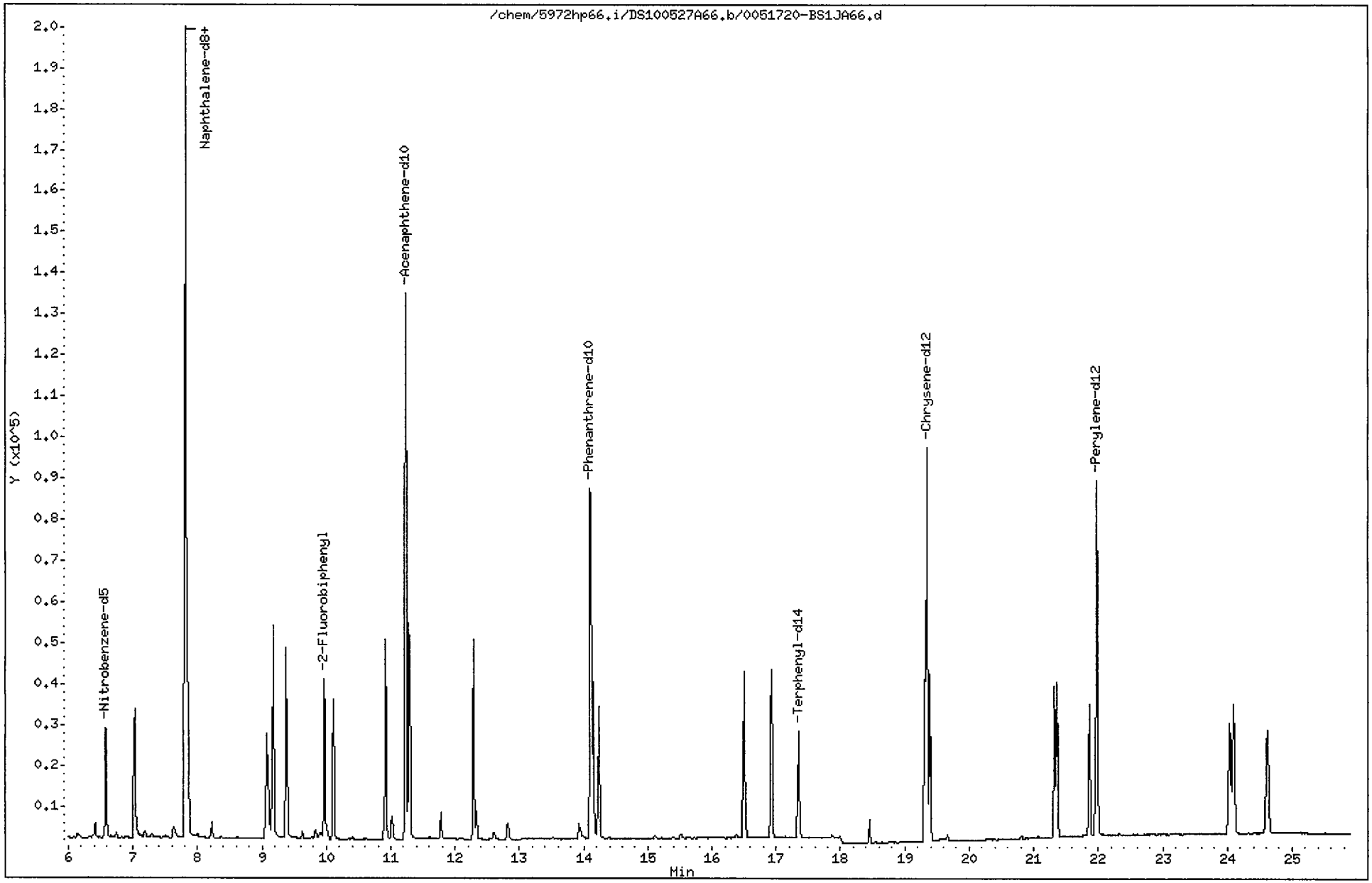
% Moisture: 0 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	8.5	
91-57-6	2-Methylnaphthalene	0.68	8.3	9.8	
208-96-8	Acenaphthylene	0.53	8.3	9.1	
83-32-9	Acenaphthene	0.60	8.3	8.9	
86-73-7	Fluorene	0.45	8.3	9.1	
85-01-8	Phenanthrene	1.3	8.3	9.6	
120-12-7	Anthracene	0.43	8.3	9.2	
206-44-0	Fluoranthene	1.3	8.3	11	
129-00-0	Pyrene	0.57	8.3	10	
56-55-3	Benzo(a)anthracene	0.57	8.3	12	
218-01-9	Chrysene	0.63	8.3	12	
205-99-2	Benzo(b)fluoranthene	0.57	8.3	11	
207-08-9	Benzo(k)fluoranthene	0.43	8.3	11	
50-32-8	Benzo(a)pyrene	0.38	8.3	10	
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	12	
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	12	
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	11	

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527A66.b/0051720-BS1JA66.d
Date : 27-MAY-2010 19:01
Client ID: SBELCS
Instrument: 5972hp66.i
Sample Info: 0051720-BS1:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527A66.b/0051720-BS1JA66.d
Report Date: 01-Jun-2010 16:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527A66.b/0051720-BS1JA66.d
Lab Smp Id: 0051720-BS1 Client Smp ID: SBELCS
Inj Date : 27-MAY-2010 19:01
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 0051720-BS1:2730
Misc Info : SBELCS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 16:49 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 6 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.585	5.557	(1.000)	84429	2.00000		(a)
* 2 Naphthalene-d8	136	7.814	7.812	(1.000)	261769	2.00000		(a)
* 3 Acenaphthene-d10	164	11.230	11.230	(1.000)	94371	2.00000		(a)
* 4 Phenanthrene-d10	188	14.114	14.114	(1.000)	138001	2.00000		(a)
* 5 Chrysene-d12	240	19.344	19.344	(1.000)	124130	2.00000		(a)
* 6 Perylene-d12	264	21.973	21.972	(1.000)	112777	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.575	6.574	(0.842)	34425	0.59100	9.9	
$ 10 2-Fluorobiphenyl	172	9.964	9.963	(0.887)	60330	0.61262	10	
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	32760	0.72636	12	
13 Naphthalene	128	7.853	7.838	(1.005)	82310	0.50835	8.5	
15 2-Methylnaphthalene	141	9.169	9.168	(0.816)	39624	0.58645	9.8	
17 Acenaphthylene	152	10.917	10.917	(0.972)	57338	0.54393	9.1	
18 Acenaphthene	154	11.295	11.295	(1.006)	32810	0.53123	8.9	

Data File: /chem/5972hp66.i/DS100527A66.b/0051720-BS1JA66.d
Report Date: 01-Jun-2010 16:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21	Fluorene	166	12.286	12.286	(0.870)	35267	0.54605	9.1
25	Phenanthrene	178	14.153	14.153	(1.003)	49635	0.57680	9.6
26	Anthracene	178	14.231	14.244	(1.008)	42861	0.55374	9.2
27	Fluoranthene	202	16.500	16.500	(0.853)	54213	0.65865	11
28	Pyrene	202	16.930	16.930	(0.875)	56067	0.62549	10
29	Benzo(a)anthracene	228	19.309	19.309	(0.998)	49548	0.73429	12
30	Chrysene	228	19.388	19.397	(1.002)	51468	0.70420	12
31	Benzo(b)fluoranthene	252	21.319	21.319	(0.970)	50363	0.67715	11
32	Benzo(k)fluoranthene	252	21.363	21.362	(0.972)	52155	0.65163	11
33	Benzo(a)pyrene	252	21.864	21.863	(0.995)	42143	0.62877	10
34	Indeno(1,2,3-cd)pyrene	276	24.030	24.040	(1.094)	42815	0.72409	12
35	Dibenzo(a,h)anthracene	278	24.095	24.094	(1.097)	41201	0.70440	12
36	Benzo(g,h,i)perylene	276	24.617	24.627	(1.120)	44167	0.67392	11

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

d. Matrix Spike Data

- Tabulated Results (Form I SV)

- Reconstructed Ion Chromatogram and quantitation report

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS53-0-1MS

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 0051720-MS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 0051720-MS1JA66
Analyst: 2730

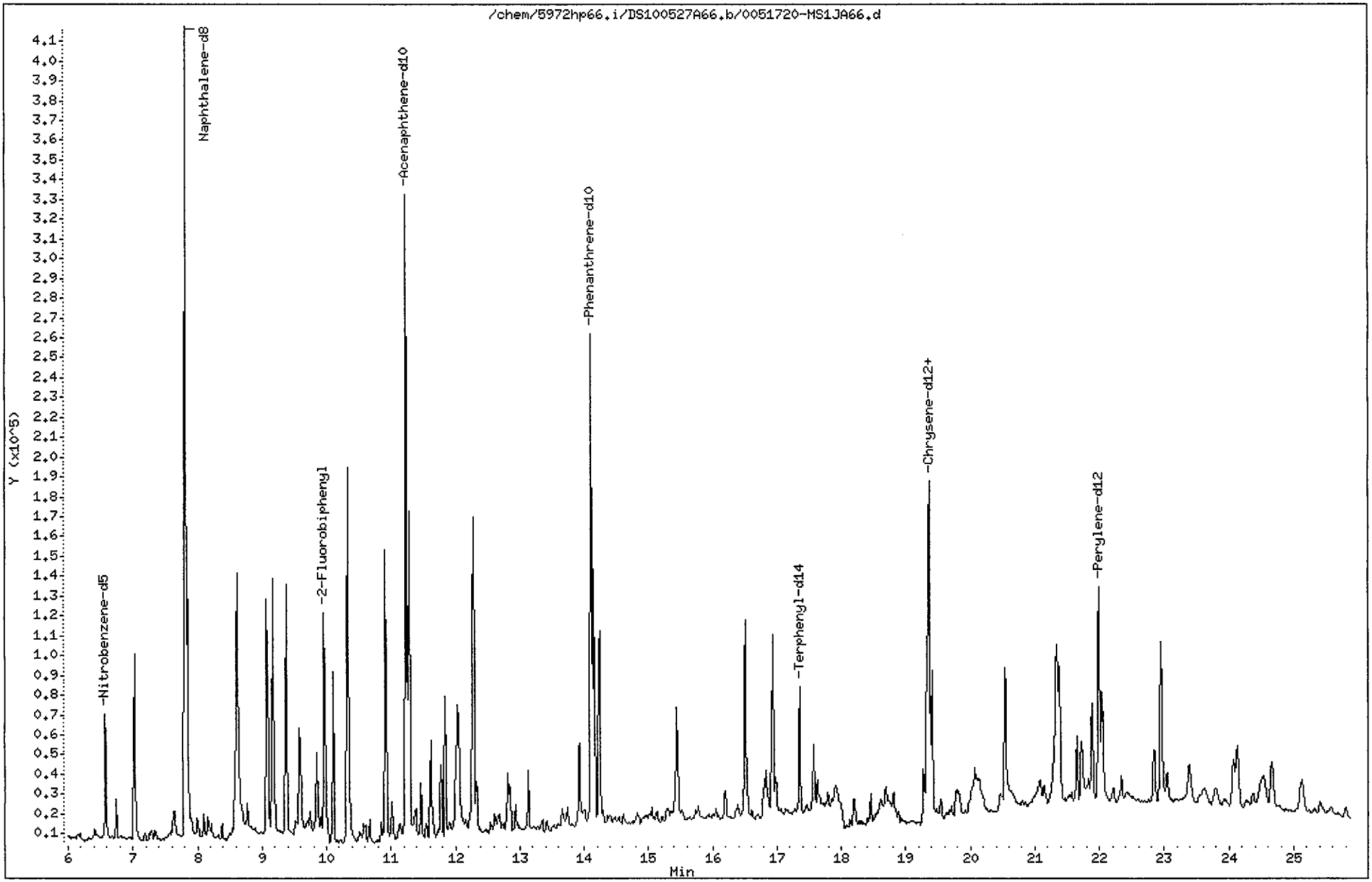
% Moisture: 25 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.96	11	11	J
91-57-6	2-Methylnaphthalene	0.91	11	13	
208-96-8	Acenaphthylene	0.71	11	16	
83-32-9	Acenaphthene	0.80	11	15	
86-73-7	Fluorene	0.60	11	15	
85-01-8	Phenanthrene	1.8	11	16	
120-12-7	Anthracene	0.58	11	17	
206-44-0	Fluoranthene	1.8	11	19	
129-00-0	Pyrene	0.76	11	18	
56-55-3	Benzo(a)anthracene	0.76	11	17	
218-01-9	Chrysene	0.84	11	16	
205-99-2	Benzo(b)fluoranthene	0.76	11	18	
207-08-9	Benzo(k)fluoranthene	0.58	11	17	
50-32-8	Benzo(a)pyrene	0.51	11	15	
193-39-5	Indeno(1,2,3-cd)pyrene	0.49	11	14	
53-70-3	Dibenzo(a,h)anthracene	0.44	11	12	
191-24-2	Benzo(g,h,i)perylene	0.51	11	10	J

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527A66.b/0051720-MS1JA66.d
Date : 27-MAY-2010 20:09
Client ID: SS53-0-1MS
Instrument: 5972hp66.i
Sample Info: 0051720-MS1:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527A66.b/0051720-MS1JA66.d
Report Date: 01-Jun-2010 16:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527A66.b/0051720-MS1JA66.d
Lab Smp Id: 0051720-MS1 Client Smp ID: SS53-0-1MS
Inj Date : 27-MAY-2010 20:09
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 0051720-MS1:2730
Misc Info : SS53-0-1MS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 16:49 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 8 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	25.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.583	5.557	(1.000)	153580	2.00000		(a)
*	2 Naphthalene-d8	136	7.812	7.812	(1.000)	537120	2.00000		(a)
*	3 Acenaphthene-d10	164	11.229	11.230	(1.000)	223539	2.00000		(a)
*	4 Phenanthrene-d10	188	14.113	14.114	(1.000)	368807	2.00000		(a)
*	5 Chrysene-d12	240	19.362	19.344	(1.000)	257990	2.00000		(a)
*	6 Perylene-d12	264	21.993	21.972	(1.000)	182038	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.574	6.574	(0.841)	72388	0.60566	13	
$	10 2-Fluorobiphenyl	172	9.963	9.963	(0.887)	164407	0.70480	16	
$	12 Terphenyl-d14	244	17.360	17.347	(0.897)	81758	0.87219	19	
	13 Naphthalene	128	7.851	7.838	(1.005)	157669	0.47457	11	(a)
	15 2-Methylnaphthalene	141	9.168	9.168	(0.816)	96718	0.60431	13	
	17 Acenaphthylene	152	10.917	10.917	(0.972)	176176	0.70556	16	
	18 Acenaphthene	154	11.295	11.295	(1.006)	96849	0.66200	15	

6/1/10

Data File: /chem/5972hp66.i/DS100527A66.b/0051720-MS1JA66.d
Report Date: 01-Jun-2010 16:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	12.285	12.286	(0.870)	114994	0.66622	15
25 Phenanthrene	178	14.152	14.153	(1.003)	169737	0.73807	16
26 Anthracene	178	14.244	14.244	(1.009)	154352	0.74617	17
27 Fluoranthene	202	16.512	16.500	(0.853)	149315	0.87283	19
28 Pyrene	202	16.942	16.930	(0.875)	150870	0.80982	18
29 Benzo(a)anthracene	228	19.328	19.309	(0.998)	110228	0.78597	17
30 Chrysene	228	19.415	19.397	(1.003)	109801	0.72284	16
31 Benzo(b)fluoranthene	252	21.340	21.319	(0.970)	95326	0.79404	18
32 Benzo(k)fluoranthene	252	21.384	21.362	(0.972)	96921	0.75021	17
33 Benzo(a)pyrene	252	21.884	21.863	(0.995)	74316	0.68693	15
34 Indeno(1,2,3-cd)pyrene	276	24.072	24.040	(1.095)	60887	0.63794	14
35 Dibenzo(a,h)anthracene	278	24.138	24.094	(1.097)	49112	0.52018	12
36 Benzo(g,h,i)perylene	276	24.671	24.627	(1.122)	49458	0.46753	10(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

e. Matrix Spike Duplicate Data

- Tabulated Results (Form I SV)

- Reconstructed Ion Chromatogram and quantitation report

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005129
Client Sample ID: SS53-0-1MSD

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 0051720-MSD1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 0051720-MSD1JA66
Analyst: 2730

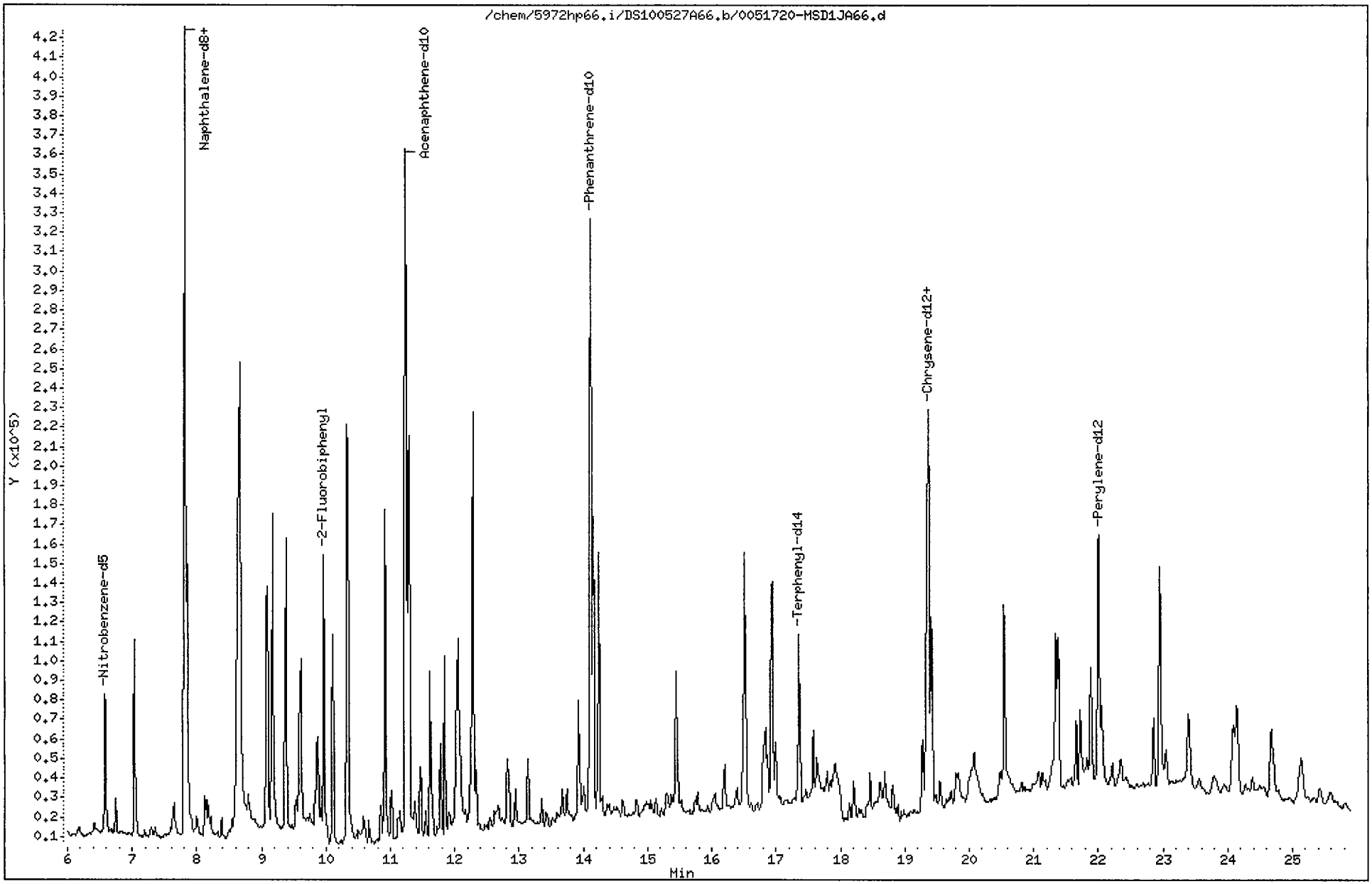
% Moisture: 25 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051720-BLK1

Date Extracted: 05/18/10
Date Analyzed: 05/27/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.96	11	12	
91-57-6	2-Methylnaphthalene	0.91	11	15	
208-96-8	Acenaphthylene	0.71	11	17	
83-32-9	Acenaphthene	0.80	11	16	
86-73-7	Fluorene	0.60	11	15	
85-01-8	Phenanthrene	1.8	11	16	
120-12-7	Anthracene	0.58	11	16	
206-44-0	Fluoranthene	1.8	11	20	
129-00-0	Pyrene	0.76	11	19	
56-55-3	Benzo(a)anthracene	0.76	11	18	
218-01-9	Chrysene	0.84	11	16	
205-99-2	Benzo(b)fluoranthene	0.76	11	17	
207-08-9	Benzo(k)fluoranthene	0.58	11	20	
50-32-8	Benzo(a)pyrene	0.51	11	16	
193-39-5	Indeno(1,2,3-cd)pyrene	0.49	11	17	
53-70-3	Dibenzo(a,h)anthracene	0.44	11	14	
191-24-2	Benzo(g,h,i)perylene	0.51	11	13	

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100527A66.b/0051720-MSD1JA66.d
Date : 27-MAY-2010 20:43
Client ID: SS53-0-1MSD
Instrument: 5972hp66.i
Sample Info: 0051720-MSD1:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100527A66.b/0051720-MSD1JA66.d
Report Date: 01-Jun-2010 16:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100527A66.b/0051720-MSD1JA66.d
Lab Smp Id: 0051720-MSD1 Client Smp ID: SS53-0-1MSD
Inj Date : 27-MAY-2010 20:43
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 0051720-MSD1:2730
Misc Info : SS53-0-1MSD
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100527A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 16:49 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 9 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	25.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.587	5.557	(1.000)	160734	2.00000		(a)
*	2 Naphthalene-d8	136	7.816	7.812	(1.000)	556915	2.00000		(a)
*	3 Acenaphthene-d10	164	11.230	11.230	(1.000)	247662	2.00000		(a)
*	4 Phenanthrene-d10	188	14.114	14.114	(1.000)	442986	2.00000		(a)
*	5 Chrysene-d12	240	19.371	19.344	(1.000)	324113	2.00000		(a)
*	6 Perylene-d12	264	22.005	21.972	(1.000)	229426	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.578	6.574	(0.842)	102227	0.82492	18	
$	10 2-Fluorobiphenyl	172	9.967	9.963	(0.887)	201932	0.78135	17	
$	12 Terphenyl-d14	244	17.361	17.347	(0.896)	108665	0.92273	21	
	13 Naphthalene	128	7.855	7.838	(1.005)	193115	0.56060	12	
	15 2-Methylnaphthalene	141	9.172	9.168	(0.817)	116011	0.65426	15	
	17 Acenaphthylene	152	10.918	10.917	(0.972)	213326	0.77112	17	
	18 Acenaphthene	154	11.295	11.295	(1.006)	116681	0.71987	16	

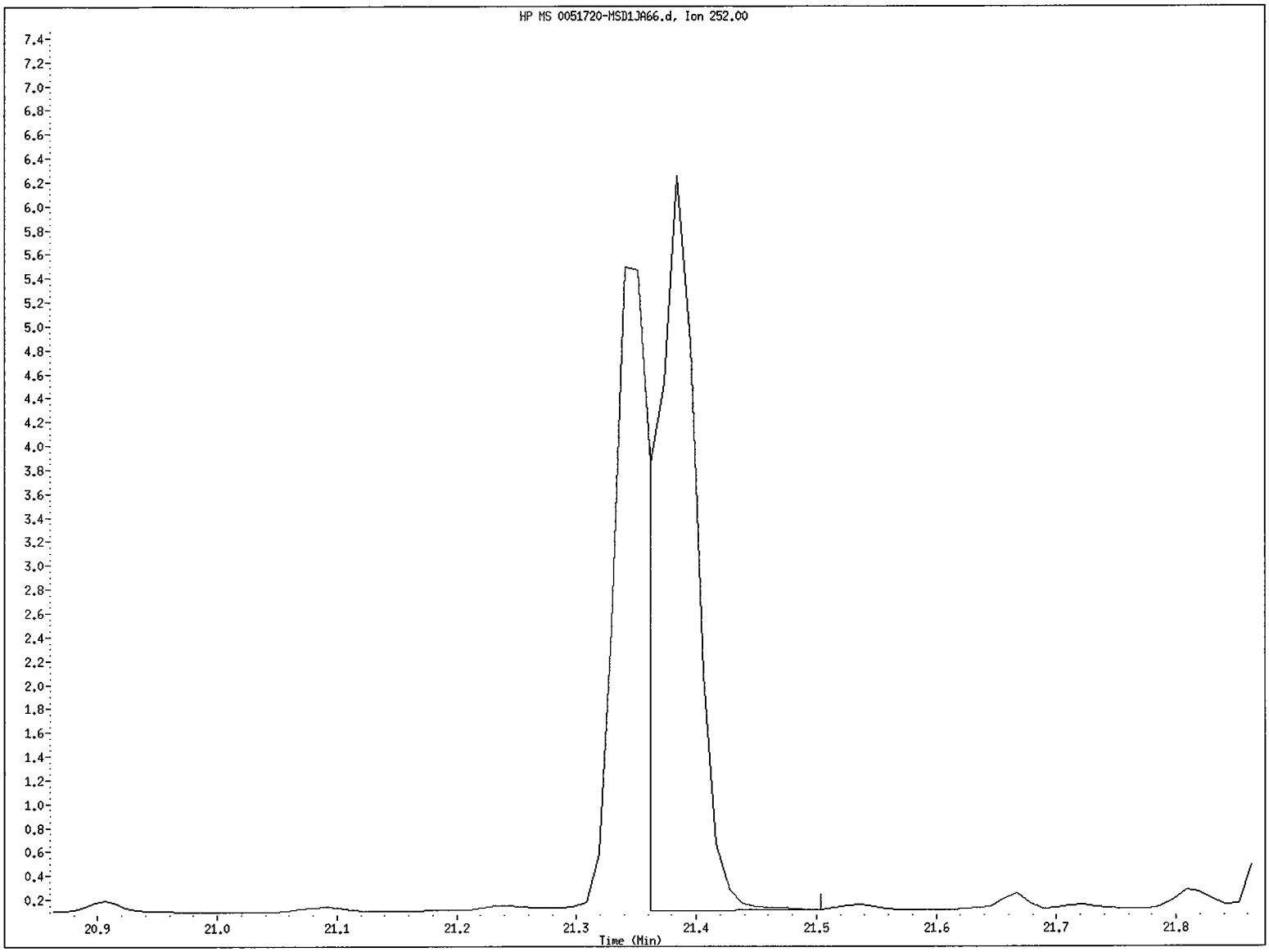
Data File: /chem/5972hp66.i/DS100527A66.b/0051720-MSD1JA66.d
Report Date: 01-Jun-2010 16:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	12.286	12.286	(0.870)	143862	0.69390	15
25 Phenanthrene	178	14.153	14.153	(1.003)	198255	0.71772	16
26 Anthracene	178	14.245	14.244	(1.009)	184088	0.74091	16
27 Fluoranthene	202	16.513	16.500	(0.852)	194508	0.90504	20
28 Pyrene	202	16.944	16.930	(0.875)	196623	0.84009	19
29 Benzo(a)anthracene	228	19.336	19.309	(0.998)	143243	0.81301	18
30 Chrysene	228	19.414	19.397	(1.002)	141124	0.73950	16
31 Benzo(b)fluoranthene	252	21.341	21.319	(0.970)	113756	0.75184	17
32 Benzo(k)fluoranthene	252	21.384	21.362	(0.972)	142942	0.87790	20(H)
33 Benzo(a)pyrene	252	21.896	21.863	(0.995)	99293	0.72822	16
34 Indeno(1,2,3-cd)pyrene	276	24.084	24.040	(1.094)	91878	0.76381	17
35 Dibenzo(a,h)anthracene	278	24.149	24.094	(1.097)	74113	0.62285	14
36 Benzo(g,h,i)perylene	276	24.682	24.627	(1.122)	75303	0.56481	13

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 142942 User selected hit



File name: /chem/5972hp66.i/DS100527A66.b/0051720-MSD1JA66.d
Client ID: SS53-0-1MSD
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 20:43
Retention Time: 21.38
Operator ID: 2730

CompuChem
A Division Of
Liberty Analytical Corp.

6/7/2010

REBEKHA SHAW

CH2M HILL, INC.

P.O. BOX 241329

DENVER, CO 80224

Subject:
Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM
WorkOrder: 1005129

Attn. REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER
OF PAGES ____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem
A Division Of
Liberty Analytical Corp.

SDG NARRATIVE
SDG # 1005129

The 20 soil samples were received intact, with proper documentations, in sealed shipping containers, on May 13th and 14th, 2010. The samples were scheduled for the requested analyses of the Wet Chemistry fraction. The samples were analyzed, in accordance with current EPA methods, for the analytes requested as per the COC, with the exceptions and/or additions requested by the client.

SAMPLE IDs:
The cover page contained in this package lists the client ID's and the associated CompuChem numbers which are part of this SDG.

INSTRUMENTAL QUALITY CONTROL:
All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:
The sample preparation procedure verifications (LCS & Blank) were found to be within acceptable ranges. All field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:
SS53-0-1 (1005129-05) was requested to use as the original to prepare matrix spike and matrix spike duplicate. The MS/MSD criteria were not met due to matrix interference.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Preeti Khare
Data Reviewer I
June 8th, 2010

Organic Undecanted Dry Weight Worksheet

0051721

Procedure: 143/190

V. Gibson — Employee

2741 — ID No

Temp in: 108°C

Temp out: 105°C

Date Assigned: 5-18-10

Date/Time in: 5-18-10 1110

Date/Time out: 5-21-10 1530

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1005129-01	SS55-00-01	Sample	1.30	7.93	5.71
1005129-02	SB55-00-2.5-3	Sample	1.34	8.99	7.49
1005129-03	SS54-0-1	Sample	1.33	7.94	7.40
1005129-04	SB54-4-5	Sample	1.33	7.47	6.39
1005129-05	SS53-0-1	Sample	1.34	8.22	6.48
1005129-06	SB53-7-8	Sample	1.34	7.07	5.88
1005129-07	SS80-0-1	Sample	1.30	7.58	6.31
1005129-08	SB80-3-4	Sample	1.32	7.89	7.00
1005129-09	SS56-0-1	Sample	1.30	6.87	5.85
1005129-10	SB56-3-4	Sample	1.34	7.16	6.09
1005129-11	SS58-0-1	Sample	1.30	8.00	7.69
1005129-12	SS52-0-1	Sample	1.33	7.65	6.37
1005129-13	SS57-0-1	Sample	1.33	6.68	5.54
1005129-14	SS60-00-01	Sample	1.34	7.54	6.98
1005129-15	SS59-00-01	Sample	1.33	6.92	6.65
1005129-16	SB59-9-10	Sample	1.32	7.01	5.76
1005129-17	SS85-0-1	Sample	1.34	7.57	6.95
1005129-18	SS89-0-1	Sample	1.31	7.04	6.57
1005129-19	SB89-6.5-7.5	Sample	1.30	6.87	6.29
1005129-20	SS78-0-1	Sample	1.30	7.96	7.50

Entered into Element by: M West — 5-24-10 (Date)

2

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS55-00-01	1005129-01	Soil	05/11/2010 07:40	05/13/2010 09:30
SB55-00-2.5-3	1005129-02	Soil	05/11/2010 07:50	05/13/2010 09:30
SS54-0-1	1005129-03	Soil	05/11/2010 08:40	05/13/2010 09:30
SB54-4-5	1005129-04	Soil	05/11/2010 08:50	05/13/2010 09:30
SS53-0-1	1005129-05	Soil	05/11/2010 09:50	05/13/2010 09:30
SB53-7-8	1005129-06	Soil	05/11/2010 09:55	05/13/2010 09:30
SS80-0-1	1005129-07	Soil	05/12/2010 07:55	05/13/2010 09:30
SB80-3-4	1005129-08	Soil	05/12/2010 08:00	05/13/2010 09:30
SS56-0-1	1005129-09	Soil	05/11/2010 11:25	05/13/2010 09:30
SB56-3-4	1005129-10	Soil	05/11/2010 11:30	05/13/2010 09:30
SS58-0-1	1005129-11	Soil	05/12/2010 10:15	05/13/2010 09:30
SS52-0-1	1005129-12	Soil	05/11/2010 15:15	05/13/2010 09:30
SS57-0-1	1005129-13	Soil	05/12/2010 12:05	05/13/2010 09:30
SS60-00-01	1005129-14	Soil	05/12/2010 15:55	05/14/2010 09:20
SS59-00-01	1005129-15	Soil	05/12/2010 16:40	05/14/2010 09:20
SB59-9-10	1005129-16	Soil	05/12/2010 16:55	05/14/2010 09:20
SS85-0-1	1005129-17	Soil	05/13/2010 07:40	05/14/2010 09:20
SS89-0-1	1005129-18	Soil	05/13/2010 08:25	05/14/2010 09:20
SB89-6.5-7.5	1005129-19	Soil	05/13/2010 08:45	05/14/2010 09:20
SS78-0-1	1005129-20	Soil	05/13/2010 09:30	05/14/2010 09:20

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS55-00-01
1005129-01 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	3.01	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB55-00-2.5-3
1005129-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**2.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.49	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS54-0-1

1005129-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**6.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**6.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.18	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB54-4-5

1005129-04 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**14.6**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**13.6**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	**1.26**	J	2.43	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS53-0-1

1005129-05 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.80**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.80**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.68	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB53-7-8

1005129-06 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**7.10**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**6.06**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	**1.31**	J	2.53	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS80-0-1

1005129-07 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.70**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**3.70**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.51	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB80-3-4
1005129-08 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.70**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**2.70**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.31	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS56-0-1

1005129-09 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**6.10**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**6.10**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.45	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB56-3-4

1005129-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	**12.7**	0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS								
Trivalent Chromium	**10.4**	0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	**2.76**	2.45	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS58-0-1
1005129-11 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**0.83**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**0.830**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS52-0-1

1005129-12 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.51	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS57-0-1

1005129-13 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.50**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.50**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.54	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS60-00-01
1005129-14 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.50**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.50**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.20	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS59-00-01

1005129-15 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.70**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**1.70**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB59-9-10

1005129-16 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**14.1**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**14.1**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.56	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS85-0-1

1005129-17 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**5.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**5.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.22	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS89-0-1

1005129-18 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**4.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**4.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.18	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SB89-6.5-7.5
1005129-19 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**8.60**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**8.60**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.23	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

SS78-0-1

1005129-20 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**11.9**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/07/2010 16:49	EPA 6010B
WET CHEMISTRY PARAMETERS									
Trivalent Chromium	**11.9**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/07/2010 16:49	Calc
Hexavalent Chromium	ND	U	2.15	mg/kg dry	1	0052016	05/20/2010 10:48	06/07/2010 12:13	EPA 7196A

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

WET CHEMISTRY PARAMETERS - Quality Control

COMPUCHEM

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0052016 - Default Prep GenChem										
Blank (0052016-BLK1)				Prepared: 05/20/2010 10:48 Analyzed: 06/07/2010 12:13						
Hexavalent Chromium	ND	2.00	mg/kg wet							
LCS (0052016-BS1)				Prepared: 05/20/2010 10:48 Analyzed: 06/07/2010 12:13						
Hexavalent Chromium	124	4.00	mg/kg wet	240.0		51.8	25-175			
Matrix Spike (0052016-MS1)		**Source: 1005129-05**		Prepared: 05/20/2010 10:48 Analyzed: 06/07/2010 12:13						
Hexavalent Chromium	25.0	2.68	mg/kg dry	53.55	0.00	46.7	75-125			
Matrix Spike Dup (0052016-MSD1)		**Source: 1005129-05**		Prepared: 05/20/2010 10:48 Analyzed: 06/07/2010 12:13						
Hexavalent Chromium	ND	2.68	mg/kg dry	53.55	0.00	0.00	75-125		20	

COMPUCHEM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ken Grzybowski For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/07/2010 19:28

Notes and Definitions

U	The compound was analyzed for but not detected (CLP U-flag).
J	Compound detected below the Reporting Limit; therefore, result is an estimated concentration (CLP J-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.01:4045
	HEXAVALENT CHROMIU (SOIL)		Result calculations based on MDL
	HEXAVALENT CHROMIU (SOIL)		Special Units: (mg/kg)
	Total Cr by Metals	(Soil)	Result calculations based on MDL
	Total Cr by Metals	(Soil)	Special Units: (mg/kg)
0052016-MS1	HEXAVALENT CHROMIU	Hexavalent Chromium	Exceeds lower control limit
0052016-MSD1	HEXAVALENT CHROMIU	Hexavalent Chromium	Exceeds lower control limit
0052016-MSD1	HEXAVALENT CHROMIU	Hexavalent Chromium	Spike recovery below MDL

CompuChem
A Division Of
Liberty Analytical Corp.

Hexavalent Chromium-METHOD 3060A/7196A

Initial Calibration Log

Analyst: JM

Analysis Date: 6-3-2010

Work Order(s): 1005129

Calibration Data		
Absorbance Reading	Theoretical Concentration (mg/L)	Calculated Concentration (mg/L)
0.000	0	0.00474
0.031	0.05	0.02414
0.064	0.1	0.04479
0.257	0.4	0.16557
0.653	1	0.41338
1.245	2	0.78385

Regression Output	
Constant	0.004736878
Correlation Coeff.	0.999711037
No. of Observations	5
Degrees of Freedom	4
X Coefficient(s)	0.625796826

Analytical Sequence Log				
Compuchem Sample ID	Final Absorbance (sample - backgound)	Calculated Concentration (mg/L)	Calculated Concentration (mg/kg)	Comments
ICV	0.650	1.0311	41.2443	
PB	0.000	-0.0076	-0.3028	
LCS	1.773	2.8256	113.0247	
512901	-0.477	-0.7698	-30.7919	
512902	-0.143	-0.2361	-9.4431	
512903	-0.140	-0.2313	-9.2514	
512904	0.021	0.0260	1.0395	
512905	-0.088	-0.1482	-5.9276	
MS	0.297	0.4670	18.6810	
MSD	-0.140	-0.2313	-9.2514	
512906	0.021	0.0260	1.0395	
CCV	0.255	0.3999	15.9964	
CCB	0.000	-0.0076	-0.3028	
512907	-0.129	-0.2137	-8.5483	
512908	0.010	0.0084	0.3364	
512909	-0.045	-0.0795	-3.1791	
512910	0.040	0.0563	2.2540	
512911	0.000	-0.0076	-0.3028	
512912	-0.322	-0.5221	-20.8845	
512913	-0.020	-0.0395	-1.5811	
512914	0.000	-0.0076	-0.3028	
512915	-0.119	-0.1977	-7.9091	
512916	0.015	0.0164	0.6560	
CCV	0.256	0.4015	16.0604	
CCB	0.001	-0.0060	-0.2389	
512917	-0.054	-0.0939	-3.7544	
512918	0.008	0.0052	0.2086	
512919	0.000	-0.0076	-0.3028	
512920	-0.027	-0.0507	-2.0286	
LCS 2X	0.978	1.5552	62.2095	124.4190 mg/kg
CCV	0.257	0.4031	16.1243	
CCB	0.000	-0.0076	-0.3028	
~~CCB~~	~~0.000~~	~~-0.0076~~	~~-0.3028~~	
CCB	0.000	-0.0076	-0.3028	

JM 6-3-10

ICV = 1.0 mg/L or 40 mg/kg

CCV = .4 mg/L or 16 mg/kg

LCS TV = 240 (Accept limits = 103 - 377 mg/kg)

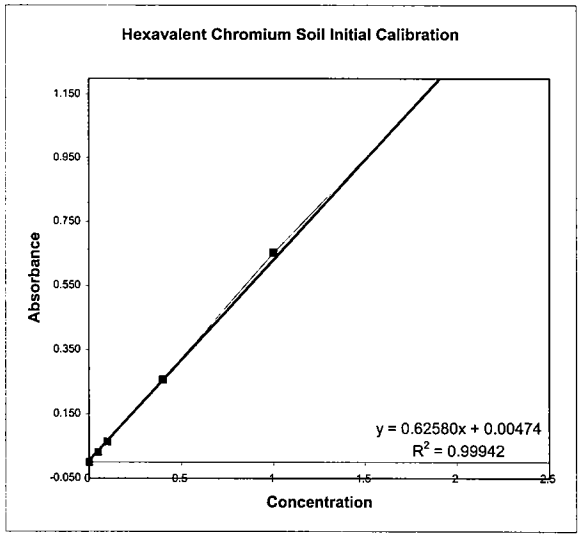
Reviewed by:_____

Date:_____

CompuChem
a Division Of
Liberty Analytical Corp.

Hexavalent Chromium-METHOD 3060A/7196A

Initial Calibration Log



Reviewed by:_____

Date:_____

Reagents/Standards Preparation Log for Hexavalent Chromium

CompuChem a division of Liberty Analytical Corp.1 UUUU

NAME	PREPARATION INSTRUCTIONS	PREPARED BY	DATE
Cr (VI) Digestion Solution NaOH Ref# 1u(6)1-13-28 Na_2CO_3 Ref# 1u(6)1-13-24	Place in a 1L volumetric flask: 20 g of NaOH 30 g of Na_2CO_3 Dilute to the volume with reagent water. Place solution in a Teflon bottle. Prepare fresh monthly or as needed	JM	06 01 10
Cr (VI) Stock Standard A Solution (**1000 mg/L**) Ref# 1u(6)1-17-25	N/A; Prepared by NSI - Hexavalent Chromium stock standard at 1000 mg/L	NSI	**EXP: 01/11**
Cr (VI) Intermediate Standard Solution (**10 mg/L**) Ref# 1u(6)1-17-25	Place in a 100 mL volumetric flask: 1mL of Cr (VI) Stock Standard Solution Dilute to volume reagent water. Prepare fresh daily	JM	06 01 10
Cr (VI) Stock Standard B Solution (**1000 mg/L**) Ref# 1u(6)1-18-2	N/A; Prepared by Alpha Aesar - Hexavalent Chromium stock standard at 1000 mg/L	JM	06 01 10
Cr (VI) Intermediate Standard Solution (**10 mg/L**) Ref# 1u(6)1-18-2	Place in a 100 mL volumetric flask: 1mL of Cr (VI) Stock Standard B Solution Dilute to volume reagent water. Prepare fresh daily	JM	06 01 10
2.0 ppm Standard	Place in a 100 mL volumetric flask: .2 ml of Cr (VI) Stock Standard Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
1.0 ppm Standard	Place in a 100 mL volumetric flask: .1 mL of Cr (VI) stock Standard Solution 50 ml of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
0.4 ppm Standard **(use for CCV)**	Place in a 100 mL volumetric flask: 4 mL of Cr (VI) **Intermediate** Standard Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10

Reagents/Standards Preparation Log for Hexavalent Chromium

CompuChem a division of Liberty Analytical Corp.1 UUUU

NAME	PREPARATION INSTRUCTIONS	PREPARED BY	DATE
0.1 ppm Standard **USE FOR LOQ**	Place in a 100 mL volumetric flask: 1 mL of Cr (VI) **Intermediate** Standard Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
0.05 ppm Standard **USE FOR MDL and LOD**	Place in a 100 mL volumetric flask: .5 mL of Cr (VI) **Intermediate** Standard Stock Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
ICV 1.0 ppm	Place in a 100 mL volumetric flask: .1 mL of Cr (VI) Cr (VI) Stock Standard B 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
ICB/CCB	50 mL of Cr (VI) Digestion solution in 50 ml of DI water	JM	06 01 10
LCS TV=240 mg/kg Hexavilent chromium in soil Ref# 1u(6)1-19-3	Place in a 250 mL beaker: Weigh 2.5g of Hexavalent Chromium reference standard 50 mL of Cr (VI) Digestion solution	JM	06 01 10
Matrix Spiking Solution Ref#:1u(6)1-17-25	Spike .1 ml of the 1000 ppm stock standard in 2.5 g of the original	JM	06 01 10
Phosphate Buffer Solution K2hpo4Ref# 1U(6)1-14-16 Kh2po4Ref#1u(6)1-12-21	Place in 1 L volumetric flask: 87.09g of K_2HPO_4 and 68.04 g of KH_2PO_4 Dilute to volume with reagent water. Prepare fresh every six months	JM	06 01 10
Diphenylcarbazide Solution Ref#:1U(6)1-15-22	Place in a 100 mL volumetric flask: 0.5 g of 1,5-diphenylcarbazide Dilute to volume with acetone. Prepare fresh monthly of sooner, if solution becomes colored.	JM	06 03 10

Reviewed by: _____ Date: 6-8-10 The presence of the Chemist's/Analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

11-18-09 jm

Hexavalent Chromium Analysis Log

Modified Method SW-846: 7196A

Analyst [signature]

SDG ID 1005129

Reviewed By: [signature]

Date: 6-7-10

Date: 6-3-2010

Correlation Coefficient See run log

Slope: NA

Intercept: NA

#	Sample ID	Acidic pH	Uncorrected Absorbance	Background Abosrbance	Corrected Absorbance	Dilution	Concentration	Color	Read Time
	0.0	1.6±.22	.000	.000	-000	1	NA	NA	14:00
	0.05		.031	.000	.031	1			
	0.1		.064	.000	.064	1			
	0.4		.257	.000	.257	1			
	1.0		.653	.000	.653	1			
	2.0		1.240	.000	1.245	1			
	ICV		.650	.000	.650	1			
1	MB		.003	.003	.000	1			
2	LCS		1.780	.007	1.773	1			
3	1005129-01		.077	.554	-.477	1			
4	-02		.120	.263	-.143	1			
5	-03		.060	.200	-.140	1			
6	-04		.038	.017	0.021	1			
7	-MS1		~~.440~~ .390	~~.233~~ .213	.180	1	.297		
8	-MSD1		~~.367~~ .300	~~.485~~ .367	-.118	1	-.146		
9	-05		~~.075~~ .042	~~.390~~ .136	-.315	1	-0.088		
10	-06		.036	.015	0.021	1			
	CCV		.255	.000	.255	1			
	CCB		.000	.000	.000	1			
1	-07		.076	.205	-.129	1			
2	-08		.022	.012	.010	1			
3	-09		.145	.190	-.045	1			
4	-10		.060	.020	.040	1			
5	-11		.055	.055	.000	1			
6	-12		.178	.500	-.322	1			
7	-13		.078	.098	-.020	1			
8	-14		.170	.170	.000	1			
9	-15		.020	.139	-.119	1			
10	-16		.037	.022	.015	1			
	CCV		.256	.000	.256	1			
	CCB		.001	.000	.001	1			

See dilution → (row 2)

org → (row 9)

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/5/06:jad

~~46~~ JA 6-3-10

Hexavalent Chromium Analysis Log

Modified Method SW-846: 7196A

Analyst [signature] Date: 6-3-2010

SDG ID 100 5129 Correlation Coefficient _____

Reviewed By: [signature] Slope: N/A

Date: 6-7-10 Intercept: N/A

#	Sample ID	Acidic pH	Uncorrected Absorbance	Background Abosrbance	Corrected Absorbance	Dilution	Concentration	Color	Read Time
	-17	1.6 4.22	.166	.220	-0.054	1			
	-18		.048	.040	.008	1			
	-19		.030	.030	.000	1			
	-20		.118	.145	-.027	~~2~~ 1 JR 6-3-10			
	~~CCV~~ LCS2R		.985	.007	.978	2			
	~~CCB~~ CCV		.257	.000	.257	1			
	CCB		.000	.000	.000	1			14:50
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
	CCV								
	CCB								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
	CCV								
	CCB								

JR 6-3-10

JR 6-3-2010

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/5/06:jad

~~43~~ JR 6-3-10

CompuChem, a division of Liberty Analytical Corp.

Worksheet 1 K (8) **Cr(VI) DIGESTION PREP** Page __1__ of __1__

SDG # **1005129** **SW-846 Method 3060A**

Analyst No.: 2477 Date: ~~5-24-10~~ 1st 6-3-10 6-1-10

CompuChem No.	Sample Type	Sample weight (gms)	Hot Plate Temp °C	Sample filtered? (Y or N)	Final volume (mL)	Comments
0052016-BLK1	Blank	2.5	95	Y	100	10:00
0052016-BS1	LCS	2.50				
1005129-01	Sample	2.50				
1005129-02	Sample	2.53				
1005129-03	Sample	2.50				
1005129-04	Sample	2.52				11:00
1005129-05	Sample	2.50				11:30
0052016-MS1	MS	2.50				
0052016-MSD1	MSD	2.50				
1005129-06	Sample	2.51				
1005129-07	Sample	2.53				
1005129-08	Sample	2.52				12:00
1005129-09	Sample	2.52				12:30
1005129-10	Sample	2.50				
1005129-11	Sample	2.51				
1005129-12	Sample	2.53				
1005129-13	Sample	2.54				
1005129-14	Sample	2.51				1:00
1005129-15	Sample	2.54				
1005129-16	Sample	2.51				
1005129-17	Sample	2.52				
1005129-18	Sample	2.52				
1005129-19	Sample	2.52				2:00
1005129-20	Sample	2.52				2:30
ICV	ICV	2.50				3:00

Digestion Solution - 06 01 10 jm

Phosphate Buffer Solution - 06 01 10 jm

Digestion Time Start - _____ > See Comments

Matrix Spiking Solution (100mg/L CrVI) - 052206jm

Digestion Time Stop - _____

NaOH ref #	106)1-13-28
K_2HPO_4 ref #	106)1-14-16
KH_2PO_4 ref #	106)1-12-21

Reviewed By: _____ Date: 6-7-10

The presence of the Chemist's/analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Generated on: 5/24/2010 9:34 AM

3/24/10:jad

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS55-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-01RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 66.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	442			P
7440-36-0	Antimony	1.7			P
7440-38-2	Arsenic	1.5	U		P
7440-39-3	Barium	5.1	B		P
7440-41-7	Beryllium	0.75	U		P
7440-43-9	Cadmium	0.75	U		P
7440-70-2	Calcium	3960			P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.75	U		P
7440-50-8	Copper	12.8			P
7439-89-6	Iron	439			P
7439-92-1	Lead	4.9			P
7439-95-4	Magnesium	64.0	B		P
7439-96-5	Manganese	4.9			P
7439-97-6	Mercury	0.024	B		CV
7440-02-0	Nickel	0.75	B		P
7440-09-7	Potassium	752	U		P
7782-49-2	Selenium	0.53	B		P
7440-22-4	Silver	0.75	U		P
7440-23-5	Sodium	75.1	B		P
7440-28-0	Thallium	1.5	U		P
7440-62-2	Vanadium	1.2	B		P
7440-66-6	Zinc	7.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB55-00-2.5-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-02RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 80.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1290			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	1.5	B		P
7440-41-7	Beryllium	0.62	U		P
7440-43-9	Cadmium	0.62	U		P
7440-70-2	Calcium	273	B		P
7440-47-3	Chromium	2.4			P
7440-48-4	Cobalt	0.62	U		P
7440-50-8	Copper	0.21	B		P
7439-89-6	Iron	342			P
7439-92-1	Lead	2.0			P
7439-95-4	Magnesium	41.6	B		P
7439-96-5	Manganese	1.5			P
7439-97-6	Mercury	0.011	B		CV
7440-02-0	Nickel	0.47	B		P
7440-09-7	Potassium	622	U		P
7782-49-2	Selenium	0.62	U		P
7440-22-4	Silver	0.62	U		P
7440-23-5	Sodium	44.8	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	1.6	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS54-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-03RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7050			P
7440-36-0	Antimony	0.88	B		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	8.8	B		P
7440-41-7	Beryllium	0.06	B		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	252	B		P
7440-47-3	Chromium	6.4			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	2040			P
7439-92-1	Lead	5.3			P
7439-95-4	Magnesium	172	B		P
7439-96-5	Manganese	5.8			P
7439-97-6	Mercury	0.035	B		CV
7440-02-0	Nickel	1.3			P
7440-09-7	Potassium	35.9	B		P
7782-49-2	Selenium	0.32	B		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	57.7	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	8.6			P
7440-66-6	Zinc	6.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB54-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-04RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 82.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13500			P
7440-36-0	Antimony	0.99	B		P
7440-38-2	Arsenic	0.90	B		P
7440-39-3	Barium	14.6	B		P
7440-41-7	Beryllium	0.60	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	194	B		P
7440-47-3	Chromium	14.6			P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.1			P
7439-89-6	Iron	6100			P
7439-92-1	Lead	7.0			P
7439-95-4	Magnesium	474	B		P
7439-96-5	Manganese	7.4			P
7439-97-6	Mercury	0.015	B		CV
7440-02-0	Nickel	2.2			P
7440-09-7	Potassium	304	B		P
7782-49-2	Selenium	0.49	B		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	66.7	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	18.4			P
7440-66-6	Zinc	5.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS53-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-05RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 74.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1900			P
7440-36-0	Antimony	1.4			P
7440-38-2	Arsenic	1.3	U		P
7440-39-3	Barium	3.8	B		P
7440-41-7	Beryllium	0.67	U		P
7440-43-9	Cadmium	0.67	U		P
7440-70-2	Calcium	111	B		P
7440-47-3	Chromium	1.8			P
7440-48-4	Cobalt	0.67	U		P
7440-50-8	Copper	0.58	B		P
7439-89-6	Iron	996			P
7439-92-1	Lead	3.5			P
7439-95-4	Magnesium	65.8	B		P
7439-96-5	Manganese	3.5			P
7439-97-6	Mercury	0.021	B		CV
7440-02-0	Nickel	0.59	B		P
7440-09-7	Potassium	669	U		P
7782-49-2	Selenium	0.67	U		P
7440-22-4	Silver	0.67	U		P
7440-23-5	Sodium	63.4	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	3.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB53-7-8

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-06RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5090			P
7440-36-0	Antimony	1.2	B		P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	5.2	B		P
7440-41-7	Beryllium	0.61	U		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	94.0	B		P
7440-47-3	Chromium	7.1			P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	0.85			P
7439-89-6	Iron	4710			P
7439-92-1	Lead	4.5			P
7439-95-4	Magnesium	168	B		P
7439-96-5	Manganese	5.2			P
7439-97-6	Mercury	0.042	U		CV
7440-02-0	Nickel	0.76			P
7440-09-7	Potassium	96.5	B		P
7782-49-2	Selenium	0.67			P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	47.5	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	13.0			P
7440-66-6	Zinc	3.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS80-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-07RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1980			P
7440-36-0	Antimony	1.1	B		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	4.7	B		P
7440-41-7	Beryllium	0.61	U		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	1500			P
7440-47-3	Chromium	3.7			P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	809			P
7439-92-1	Lead	4.6			P
7439-95-4	Magnesium	84.6	B		P
7439-96-5	Manganese	8.4			P
7439-97-6	Mercury	0.017	B		CV
7440-02-0	Nickel	0.92			P
7440-09-7	Potassium	608	U		P
7782-49-2	Selenium	0.61	U		P
7440-22-4	Silver	0.05	B		P
7440-23-5	Sodium	64.9	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	2.9			P
7440-66-6	Zinc	3.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB80-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-08RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1990			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	2.0	B		P
7440-41-7	Beryllium	0.57	U		P
7440-43-9	Cadmium	0.57	U		P
7440-70-2	Calcium	104	B		P
7440-47-3	Chromium	2.7			P
7440-48-4	Cobalt	0.57	U		P
7440-50-8	Copper	0.75			P
7439-89-6	Iron	1320			P
7439-92-1	Lead	1.9			P
7439-95-4	Magnesium	46.2	B		P
7439-96-5	Manganese	1.4			P
7439-97-6	Mercury	0.038	U		CV
7440-02-0	Nickel	0.60			P
7440-09-7	Potassium	567	U		P
7782-49-2	Selenium	0.38	B		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium	47.7	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	3.5			P
7440-66-6	Zinc	2.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS56-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-09RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7700			P
7440-36-0	Antimony	1.4			P
7440-38-2	Arsenic	0.56	B		P
7440-39-3	Barium	13.4	B		P
7440-41-7	Beryllium	0.61	U		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	1840			P
7440-47-3	Chromium	6.1			P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	2.4			P
7439-89-6	Iron	5990			P
7439-92-1	Lead	7.1			P
7439-95-4	Magnesium	161	B		P
7439-96-5	Manganese	5.4			P
7439-97-6	Mercury	0.041			CV
7440-02-0	Nickel	1.3			P
7440-09-7	Potassium	612	U		P
7782-49-2	Selenium	0.70			P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	55.6	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	8.5			P
7440-66-6	Zinc	3.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB56-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-10RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 81.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12900			P
7440-36-0	Antimony	1.1	B		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	12.5	B		P
7440-41-7	Beryllium	0.61	U		P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	390	B		P
7440-47-3	Chromium	12.7			P
7440-48-4	Cobalt	0.61	U		P
7440-50-8	Copper	0.96			P
7439-89-6	Iron	3550			P
7439-92-1	Lead	8.3			P
7439-95-4	Magnesium	334	B		P
7439-96-5	Manganese	6.0			P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	1.6			P
7440-09-7	Potassium	164	B		P
7782-49-2	Selenium	0.31	B		P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	62.9	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	19.5			P
7440-66-6	Zinc	3.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS58-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-11RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 95.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	367			P
7440-36-0	Antimony	1.1			P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	1.7	B		P
7440-41-7	Beryllium	0.52	U		P
7440-43-9	Cadmium	0.52	U		P
7440-70-2	Calcium	72.0	B		P
7440-47-3	Chromium	0.83	B		P
7440-48-4	Cobalt	0.52	U		P
7440-50-8	Copper	0.09	B		P
7439-89-6	Iron	273			P
7439-92-1	Lead	0.91			P
7439-95-4	Magnesium	14.2	B		P
7439-96-5	Manganese	1.8			P
7439-97-6	Mercury	0.035	U		CV
7440-02-0	Nickel	0.19	B		P
7440-09-7	Potassium	524	U		P
7782-49-2	Selenium	0.52	U		P
7440-22-4	Silver	0.52	U		P
7440-23-5	Sodium	47.7	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	0.68	B		P
7440-66-6	Zinc	0.90	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS52-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-12RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	501			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	11.8	B		P
7440-41-7	Beryllium	0.60	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	315	B		P
7440-47-3	Chromium	1.2	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	0.73			P
7439-89-6	Iron	213			P
7439-92-1	Lead	1.9			P
7439-95-4	Magnesium	43.0	B		P
7439-96-5	Manganese	2.1			P
7439-97-6	Mercury	0.041	U		CV
7440-02-0	Nickel	0.34	B		P
7440-09-7	Potassium	603	U		P
7782-49-2	Selenium	0.39	B		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	75.1	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	1.0	B		P
7440-66-6	Zinc	1.1	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS57-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-13RE1

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 78.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	733			P
7440-36-0	Antimony	1.2	B		P
7440-38-2	Arsenic	1.3	U		P
7440-39-3	Barium	1.5	B		P
7440-41-7	Beryllium	0.63	U		P
7440-43-9	Cadmium	0.63	U		P
7440-70-2	Calcium	225	B		P
7440-47-3	Chromium	1.5			P
7440-48-4	Cobalt	0.63	U		P
7440-50-8	Copper	0.72			P
7439-89-6	Iron	273			P
7439-92-1	Lead	2.4			P
7439-95-4	Magnesium	30.7	B		P
7439-96-5	Manganese	2.7			P
7439-97-6	Mercury	0.010	B		CV
7440-02-0	Nickel	0.38	B		P
7440-09-7	Potassium	629	U		P
7782-49-2	Selenium	0.44	B		P
7440-22-4	Silver	0.63	U		P
7440-23-5	Sodium	61.2	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	1.7	B		P
7440-66-6	Zinc	1.5	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS60-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-14RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 91.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1280			P
7440-36-0	Antimony	1.1	B		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	4.8	B		P
7440-41-7	Beryllium	0.54	U		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	205	B		P
7440-47-3	Chromium	1.5			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	0.78			P
7439-89-6	Iron	327			P
7439-92-1	Lead	2.8			P
7439-95-4	Magnesium	45.5	B		P
7439-96-5	Manganese	4.3			P
7439-97-6	Mercury	0.009	B		CV
7440-02-0	Nickel	0.53	B		P
7440-09-7	Potassium	544	U		P
7782-49-2	Selenium	0.38	B		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	40.5	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	2.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS59-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-15RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1170			P
7440-36-0	Antimony	0.97	B		P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	8.0	B		P
7440-41-7	Beryllium	0.51	U		P
7440-43-9	Cadmium	0.51	U		P
7440-70-2	Calcium	227	B		P
7440-47-3	Chromium	1.7			P
7440-48-4	Cobalt	0.51	U		P
7440-50-8	Copper	0.49	B		P
7439-89-6	Iron	903			P
7439-92-1	Lead	3.8			P
7439-95-4	Magnesium	66.5	B		P
7439-96-5	Manganese	7.4			P
7439-97-6	Mercury	0.035	U		CV
7440-02-0	Nickel	0.43	B		P
7440-09-7	Potassium	510	U		P
7782-49-2	Selenium	0.51	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	58.4	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	2.7			P
7440-66-6	Zinc	1.8	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB59-9-10

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-16RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 78.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7570			P
7440-36-0	Antimony	0.92	B		P
7440-38-2	Arsenic	3.6			P
7440-39-3	Barium	8.5	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	0.64	U		P
7440-70-2	Calcium	141	B		P
7440-47-3	Chromium	14.1			P
7440-48-4	Cobalt	0.64	U		P
7440-50-8	Copper	1.9			P
7439-89-6	Iron	8280			P
7439-92-1	Lead	6.9			P
7439-95-4	Magnesium	457	B		P
7439-96-5	Manganese	8.5			P
7439-97-6	Mercury	0.042	U		CV
7440-02-0	Nickel	1.3			P
7440-09-7	Potassium	575	B		P
7782-49-2	Selenium	0.70			P
7440-22-4	Silver	0.64	U		P
7440-23-5	Sodium	73.8	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	24.9			P
7440-66-6	Zinc	5.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS85-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-17RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6030			P
7440-36-0	Antimony	1.2			P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	6.8	B		P
7440-41-7	Beryllium	0.04	B		P
7440-43-9	Cadmium	0.56	U		P
7440-70-2	Calcium	135	B		P
7440-47-3	Chromium	5.2			P
7440-48-4	Cobalt	0.56	U		P
7440-50-8	Copper	0.75			P
7439-89-6	Iron	819			P
7439-92-1	Lead	3.9			P
7439-95-4	Magnesium	173	B		P
7439-96-5	Manganese	3.1			P
7439-97-6	Mercury	0.025	B		CV
7440-02-0	Nickel	1.1			P
7440-09-7	Potassium	10.8	B		P
7782-49-2	Selenium	0.29	B		P
7440-22-4	Silver	0.56	U		P
7440-23-5	Sodium	53.2	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	7.7			P
7440-66-6	Zinc	2.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS89-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-18RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4250			P
7440-36-0	Antimony	0.97	B		P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	7.7	B		P
7440-41-7	Beryllium	0.54	U		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	263	B		P
7440-47-3	Chromium	4.4			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	0.97			P
7439-89-6	Iron	1970			P
7439-92-1	Lead	3.8			P
7439-95-4	Magnesium	130	B		P
7439-96-5	Manganese	6.6			P
7439-97-6	Mercury	0.015	B		CV
7440-02-0	Nickel	1.5			P
7440-09-7	Potassium	545	U		P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	45.0	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	5.9			P
7440-66-6	Zinc	3.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB89-6.5-7.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-19RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 89.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5720			P
7440-36-0	Antimony	1.1			P
7440-38-2	Arsenic	5.6			P
7440-39-3	Barium	11.5	B		P
7440-41-7	Beryllium	0.06	B		P
7440-43-9	Cadmium	0.54	U		P
7440-70-2	Calcium	483	B		P
7440-47-3	Chromium	8.6			P
7440-48-4	Cobalt	0.54	U		P
7440-50-8	Copper	1.1			P
7439-89-6	Iron	3030			P
7439-92-1	Lead	5.4			P
7439-95-4	Magnesium	262	B		P
7439-96-5	Manganese	4.5			P
7439-97-6	Mercury	0.037	U		CV
7440-02-0	Nickel	0.98			P
7440-09-7	Potassium	299	B		P
7782-49-2	Selenium	0.29	B		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	52.1	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	14.5			P
7440-66-6	Zinc	2.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS78-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005129

Matrix (soil/water): SOIL Lab Sample ID: 1005129-20RE1

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9180			P
7440-36-0	Antimony	1.0	B		P
7440-38-2	Arsenic	1.6			P
7440-39-3	Barium	30.6			P
7440-41-7	Beryllium	0.04	B		P
7440-43-9	Cadmium	0.53	U		P
7440-70-2	Calcium	1460			P
7440-47-3	Chromium	11.9			P
7440-48-4	Cobalt	0.53	U		P
7440-50-8	Copper	1.3			P
7439-89-6	Iron	5450			P
7439-92-1	Lead	15.4			P
7439-95-4	Magnesium	369	B		P
7439-96-5	Manganese	9.1			P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	2.1			P
7440-09-7	Potassium	248	B		P
7782-49-2	Selenium	0.43	B		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	83.3	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	11.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

24804

54

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

8oz 2oz 8oz

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS/RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)? NO

Analysis Requested (Analytical Method)

CompuChem No. (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL PEST. 3550/8081A	Chromium VI, ~~ST~~ 7196A	Metals 6010B/7471A	GRAINSIZE ASTM D422	Total Chromium 6010B	Grain size	
1005130-01	BBG-SS23-00-01-10B	5-10-10	1620	SO	3							X	X	X		X	X	1005166-01	
-02	BBG-SB23-1.5-2-10B	5-10-10	1630	SO	3							X	X	X		X	X		-02
1005129-01	BBG-SS55-00-01-10B	5-11-10	0740	SO	3							X	X	X	X	X			-03
-02	BBG-SB55-2.5-3-10B	5-11-10	0750	SO	3							X	X	X	X	X			-04
-03	BBG-SS54-0-1-10B	5-11-10	0840	SO	3							X	X	X	X	X		1005210-18	
-04	BBG-SB54-4-5-10B	5-11-10	0850	SO	3							X	X	X	X	X		1005166-05	

Sample Matrix

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by:	Date/Time:	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grainsize to CT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24805

Page 1 of 1

55

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 CLEVELAND ST STE	Sampling Location: MCB CAMLEJ
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: ROBECHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N) NA
Sampler's Name: K. ROGERS / RDU	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Comp/Chem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIMPAH 3550B/8270C (PAHs)	TCL PESTICIDES 3550/8081A	CHROMIUM VI 3060A/7196A	METALS 6010B/7471A	GRAINSIZE ASTM D422	TOTAL CHROMIUM 6010B		GRAINSIZE				
1005129-05	BBG-SS53-0-1-10B	5.11.10	0930	SO	3							X	X	X	X	X			1005166-06				
-05	BBG-SS53-0-1-10B-MS	5.11.10	0930	SO	3							X	X	X	X								
-05	BBG-SS53-0-1-10B-SD	5.11.10	0930	SO	3							X	X	X	X								
-06	BBG-SB53-7-8-10B	5.11.10	0955	SO	3							X	X	X	X	X			1005166-07				
1005130-03	BBG-SS24-0-1-10B	5.11.10	1045	SO	3							X	X	X		X	X		1005166-08				
-04	BBG-SB24-3-4-10B	5.11.10	1055	SO	3							X	X	X		X	X		1005166-09				

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? GRAINSIZE to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24807

Page 1 of 1

56

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (Include method and bottle type)

Matrices
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 8270C/3550B	TCL PEST. 3550/8081A	Chromium VI, ## 7196A/3060A	MERCURY 6010B/7471A	GRAINSIZE ASTM D422	TOTAL CHROMIUM (6010B)		Grain size		
1005130-05	BBG-SB49-0-1-10B	5-11-10	1405	SO	3							X	X	X		X	X		1005166-10		
↓ -06	BBG-SB49-11-12-10B	5-12-10	1422	SO	3							X	X	X		X	X				-11
1005129-07	BBG-SS80-0-1-10B	5-12-10	0755	SO	3							X	X	X	X	X					-12
↓ -08	BBG-SB80-3-4-10B	5-12-10	0800	SO	3							X	X	X	X	X					-13
1005130-07	BBG-SS50-0-1-10B	5-11-10	1445	SO	3							X	X	X		X	X		↓		-14
-07	BBG-SS50-0-1-10B-MS	5-11-10	1445	SO	3							X	X	X		X	X				
↓ -07	BBG-SS50-0-1-10B-SD	5-11-10	1445	SO	3							X	X	X		X	X				

Lab Use Only

Sample Unpacked By: Diane Bagel
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

* SB49-11-12-10B Sample time reads 1420 DB 4/13/10

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: Diane Bagel	Date/Time: 5-13-10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24806

57

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M Hill	Project Name: CTO-94
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ
City: Virginia Beach State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. Rogers/KOR	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Sim PAH 3550B/8270C	TCL Pest. 3550/8081A	Chromium VI (3060/7196A)	Metals 6010B/7471A	Grain Size ASTM D422	Total Chromium 6010B		Grain Size	Pace Sample #
1005129-09	BBG-SS56-0-1-10B	5-11-10	1125	SO	3							X	X	X	X	X			1005166-15	
-10	BBG-SS56-3-4-10B	5-11-10	1130	SO	3		BBG-SB56-3-4-10B					X	X	X	X	X			-16	
-11	BBG-SS58-0-1-10B	5-12-10	1015	SO	3							X	X	X	X	X			-17	
1005130-08	BBG-SB47-14-15-10B	5-12-10	0940	SO	3							X	X	X		X	X		-18	
-09	BBG-SS47-0-1-10B	5-12-10	0910	SO	3							X	X	X		X	X		-19	
-10	BBG-SS11-0-1-10B	5-11-10	1605	SO	3							X	X	X		X	X		-20	
-11	BBG-SB11-11-12-10B	5-11-10	1620	SO	3							X	X	X		X	X		1005209-01	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by:	Date/Time: 5/12/10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 4.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

2477U

58

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

2 of 2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information	Requested Analysis (include method and bottle type)	Matrices
Company Name: CH2M HILL	Project Name: CTO-94		GW - Ground water
Address: 5700 Cleveland St, Ste 101	Sampling Location: MCB Camp Lejeune		WW - Waste water
City: VA Beach State: VA Zip: 23462	Turnaround time		SW - Surface water
Project Contact: Rebekka Shaw	Batch QC or Project Specific? If Specific, which Sample ID?		SO - Soil/Sediment
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or N		TB - Trip Blank
Sampler's Name: K. Rogers / RDM	Are high concentrations expected? Y or N? If yes, which ID(s)?		RI - Rinsate
			WP - Wipe
			O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (Shaw) (1-40ml)	TCL Pest. (8081A) (2-AG) (1-500ml)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B) (1-125ml)	Chromium VI (7196A) (1-125ml)	Grain Size (1-8oz.)		Grain Size			Lab Use Only
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X						<2
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X		1005209-02			
-13	BBG-SB48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X				-03	
1005129-12	BBG-SB52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X				-04	
-13	BBG-SB57-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X				-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by:		Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900	
Relinquished by:		Date/Time:	Received by:	Date/Time:	
Subcontract? Y or N If yes, where? Grain size to GT LABS		Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 2.3 °C	

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

24111

59

CompuChem
a division of Liberty Analytical Corp.

5/14/10 Residual Chlorine Present? Yes ____ No ____

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information		Project Information	
Company Name	CH2M Hill	Project Name	CTO-94
Address	5700 Cleveland St., Ste 101	Sampling Location	MCB Camp Lejeune
City / State / Zip	VA Beach / VA / 23462	Turnaround time	
Project Contact	Rebekha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?	
Phone #	757-671-6279	Are aqueous samples field filtered for metals? Y or (N)	
Sampler's Name	Kristin Rogers / RDU	Are high concentrations expected? Y or (N) If yes, which ID(s)?	

Requested Analysis (Include Method Number and Container Preservative)

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem ID (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Chrom VI (7196A)	Total Chrom (6010B)	Total Metals (6010B)	Grain Size (ASTM D422)	SIM PAH's (8270C)	TCL Pest. (8081A)		Grain size	Lab Use Only
1005130-14	BBG-SS18-0-1-10B	5-12-10	1505	SO	3							X	X		X	X	X		1005209-06	
-15	BBG-SB18-12-13-10B	5-12-10	1520	SO	3							X	X		X	X	X		-07	
1005129-14	BBG-SS60-0-1-10B	5-12-10	1555	SO	3							X		X	X	X	X		-08	
-15	BBG-SS59-0-1-10B	5-12-10	1640	SO	3							X		X	X	X	X		-09	
-16	BBG-SB59-9-10-10B	5-12-10	1655	SO	3							X		X	X	X	X		-10	
1005130-16	BBG-SS25-0-1-10B	5-13-10	1105	SO	3							X	X		X	X	X		-11	
-17	BBG-SB25-3-4-10B	5-13-10	1110	SO	3							X	X		X	X	X		-12	

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by:	Date/Time: 5-13-10 / 1330	Received by: Diane Byrd	Date/Time: 5/14/10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24772

Page 1 of 1

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (Include Method Number and Container Preservative)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem Lab Use Only	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B)	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C)	TCL Pest (8081A)	Grain Size (ASTM D422) 8oz		Grain size	
1005129-17	BBG-SB85-0-1-10B	5-13-10	0740	SO	3							X		X	X	X	X		1005209-13	
1005132-01	BBG-SB85-1.5-2.5-10B	5-13-10	0745	SO	3							X		X	X	X	X			-14
	BBG-SB85-1.5-2.5-10B-MS*	5-13-10	0745	SO	2							X		X	X	X	X(2)	X10	no grain size on MS/MSD	
	BBG-SB85-1.5-2.5-10B-SD*	5-13-10	0745	SO	2							X		X	X	X	X(2)	X10		
1005129-18	BBG-SB89-0-1-10B	5-13-10	0825	SO	3							X		X	X	X	X		1005209-15	
-19	BBG-SB89-6.5-7.5-10B	5-13-10	0845	SO	3							X		X	X	X	X			-16
-20	BBG-SB78-0-1-10B	5-13-10	0930	SO	3							X		X	X	X	X			-17
1005132-02	BBG-SB78-3.5-4.5-10B	5-13-10	1040	SO	3							X		X	X	X	X			-18

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

BBG-SB85-1.5-2.5-10B (MS + SD) Did not receive grainsize jar. DB 5/14/10

Sample Custody

Relinquished by:	Date/Time: 5-13-10 1330	Received by: Diane Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	05/27/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	06/03/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	05/27/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	06/03/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	05/27/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	06/03/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	05/27/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	06/03/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	05/27/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	06/03/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS56-0-1-10B

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	05/27/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-01	SS55-00-01	05/11/2010	05/13/2010	06/03/2010	BBG-SS55-00-01-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	05/27/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-02	SB55-00-2.5-3	05/11/2010	05/13/2010	06/03/2010	BBG-SB55-00-2.5-3-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-03	SS54-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS54-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	05/27/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-04	SB54-4-5	05/11/2010	05/13/2010	06/03/2010	BBG-SB54-4-5-10
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-05	SS53-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS53-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	05/27/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-06	SB53-7-8	05/11/2010	05/13/2010	06/03/2010	BBG-SB53-7-8-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-07	SS80-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS80-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	05/27/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-08	SB80-3-4	05/12/2010	05/13/2010	06/03/2010	BBG-SB80-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS56-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-09	SS56-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS56-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-10	SB56-3-4	05/11/2010	05/13/2010	05/27/2010	BBG-SB56-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-10	SB56-3-4	05/11/2010	05/13/2010	06/03/2010	BBG-SB56-3-4-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-11	SS58-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS58-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-11	SS58-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS58-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-12	SS52-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS52-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-12	SS52-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS52-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-13	SS57-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS57-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-13	SS57-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS57-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-14	SS60-00-01	05/12/2010	05/14/2010	05/27/2010	BBG-SS60-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-14	SS60-00-01	05/12/2010	05/14/2010	06/03/2010	BBG-SS60-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-15	SS59-00-01	05/12/2010	05/14/2010	05/27/2010	BBG-SS59-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-15	SS59-00-01	05/12/2010	05/14/2010	06/03/2010	BBG-SS59-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-16	SB59-9-10	05/12/2010	05/14/2010	05/27/2010	BBG-SB59-9-10-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-16	SB59-9-10	05/12/2010	05/14/2010	06/03/2010	BBG-SB59-9-10-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-17	SS85-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS85-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-17	SS85-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS85-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-18	SS89-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS89-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-18	SS89-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS89-0-1-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-19	SB89-6.5-7.5	05/13/2010	05/14/2010	05/27/2010	BBG-SB89-6.5-7.5-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-19	SB89-6.5-7.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB89-6.5-7.5-10B
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-20	SS78-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS78-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005129	CTO-094 MCB CAMP LEJEUNE/39530	1005129-20	SS78-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS78-0-1-10B

WORK ORDER

Printed: 6/8/2010 10:30:51AM

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Reported**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/03/2010 00:00 (20 day TAT)

Received By: Cathy Dover
Date Received: 05/14/2010 09:20

Logged In By: Cathy Dover
Date Logged In: 05/14/2010 19:10

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005129-05 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A*TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005129-01 SS55-00-01 [Soil] Sampled 05/11/2010 07:40 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:40	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:40	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:40	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:40	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:40	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-02 SB55-00-2.5-3 [Soil] Sampled 05/11/2010 07:50 Eastern					
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 07:50	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 07:50	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 07:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 07:50	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 07:50	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 07:50	05/13/2010 09:30	SubList = GC- 8081 DOD

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires		Comments
1005129-03 SS54-0-1 [Soil] Sampled 05/11/2010 08:40 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:40	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:40	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:40	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:40	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:40	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-04 SB54-4-5 [Soil] Sampled 05/11/2010 08:50 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 08:50	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 08:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 08:50	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 08:50	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 08:50	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 08:50	05/13/2010 09:30	SubList = SVsim- PAH
1005129-05 SS53-0-1 [Soil] Sampled 05/11/2010 09:50 Eastern					**USE FOR QC**
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:50	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:50	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:50	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:50	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:50	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:50	05/13/2010 09:30	
1005129-06 SB53-7-8 [Soil] Sampled 05/11/2010 09:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 09:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 09:55	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 09:55	05/13/2010 09:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 09:55	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 09:55	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 09:55	05/13/2010 09:30	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires	Comments	
1005129-07 SS80-0-1 [Soil] Sampled 05/12/2010 07:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 07:55	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 07:55	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 07:55	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 07:55	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 07:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 07:55	05/13/2010 09:30	SubList = SVsim- PAH
1005129-08 SB80-3-4 [Soil] Sampled 05/12/2010 08:00 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 08:00	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 08:00	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 08:00	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 08:00	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 08:00	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 08:00	05/13/2010 09:30	SubList = GC- 8081 DOD
1005129-09 SS56-0-1 [Soil] Sampled 05/11/2010 11:25 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:25	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:25	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:25	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:25	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:25	05/13/2010 09:30	SubList = SVsim- PAH
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:25	05/13/2010 09:30	
1005129-10 SB56-3-4 [Soil] Sampled 05/11/2010 11:30 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 11:30	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 11:30	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 11:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 11:30	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 11:30	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 11:30	05/13/2010 09:30	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005129** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires		Comments
1005129-11 SS58-0-1 [Soil] Sampled 05/12/2010 10:15 Eastern					
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 10:15	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 10:15	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 10:15	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 10:15	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 10:15	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 10:15	05/13/2010 09:30	SubList = SVsim- PAH
1005129-12 SS52-0-1 [Soil] Sampled 05/11/2010 15:15 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 15:15	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 15:15	05/13/2010 09:30	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/08/2010 15:15	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/07/2010 15:15	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 15:15	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 15:15	05/13/2010 09:30	
1005129-13 SS57-0-1 [Soil] Sampled 05/12/2010 12:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 12:05	05/13/2010 09:30	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 12:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 12:05	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 12:05	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 12:05	05/13/2010 09:30	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 12:05	05/13/2010 09:30	
1005129-14 SS60-00-01 [Soil] Sampled 05/12/2010 15:55 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 15:55	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:55	05/14/2010 09:20	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:55	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:55	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:55	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 15:55	05/14/2010 09:20	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DI**
SDG:	**1005129** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires		Comments
1005129-15 SS59-00-01 [Soil] Sampled 05/12/2010 16:40 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:40	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:40	05/14/2010 09:20	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:40	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:40	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:40	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:40	05/14/2010 09:20	SubList = SVsim- PAH
1005129-16 SB59-9-10 [Soil] Sampled 05/12/2010 16:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:55	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/09/2010 16:55	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/08/2010 16:55	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:55	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:55	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:55	05/14/2010 09:20	
1005129-17 SS85-0-1 [Soil] Sampled 05/13/2010 07:40 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 07:40	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 07:40	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 07:40	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 07:40	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 07:40	05/14/2010 09:20	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 07:40	05/14/2010 09:20	
1005129-18 SS89-0-1 [Soil] Sampled 05/13/2010 08:25 Eastern					
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:25	05/14/2010 09:20	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:25	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:25	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:25	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:25	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:25	05/14/2010 09:20	

1005129

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DI**
SDG:	**1005129** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires		Comments
1005129-19 SB89-6.5-7.5 [Soil] Sampled 05/13/2010 08:45 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 08:45	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 08:45	05/14/2010 09:20	SubList = SVsim- PAH
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 08:45	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 08:45	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 08:45	05/14/2010 09:20	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 08:45	05/14/2010 09:20	
1005129-20 SS78-0-1 [Soil] Sampled 05/13/2010 09:30 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 09:30	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 09:30	05/14/2010 09:20	
6010B METALS TAL	06/03/2010 16:00	20	11/09/2010 09:30	05/14/2010 09:20	
7470A/7471A Mercury	06/03/2010 16:00	20	06/10/2010 09:30	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 09:30	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 09:30	05/14/2010 09:20	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

INTERNAL DIGESTION COC

0052016

COMPUCHEM

Printed: 5/24/2010 9:37:13AM

Matrix: Soil **repared using: WET CHEM - Default Prep GenChe**

Lab Number	Client ID	Sample Type	
0052016-BLK1	0052016-BLK1	Blank	
0052016-BS1	0052016-BS1	LCS	
0052016-MS1	SS53-0-1MS	Matrix Spike	
0052016-MSD1	SS53-0-1MSD	Matrix Spike Dup	
1005129-01	SS55-00-01	Sample	
1005129-02	SB55-00-2.5-3	Sample	
1005129-03	SS54-0-1	Sample	
1005129-04	SB54-4-5	Sample	
1005129-05	SS53-0-1	Sample	
1005129-06	SB53-7-8	Sample	
1005129-07	SS80-0-1	Sample	
1005129-08	SB80-3-4	Sample	
1005129-09	SS56-0-1	Sample	
1005129-10	SB56-3-4	Sample	
1005129-11	SS58-0-1	Sample	
1005129-12	SS52-0-1	Sample	
1005129-13	SS57-0-1	Sample	
1005129-14	SS60-00-01	Sample	

Prep lab / jm	6-1-10	Wet chem jm	6-2-10
Relinquished By	Date	Received By	Date
Wet chem jm	6-3-10	Storey	6-3-10
Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By 6-8-10	Date

INTERNAL DIGESTION COC

0052016

COMPUCHEM

Printed: 5/24/2010 9:37:13AM

Matrix: Soil **Prepared using: WET CHEM - Default Prep GenChe**

Lab Number	Client ID	Sample Type	
1005129-15	SS59-00-01	Sample	
1005129-16	SB59-9-10	Sample	
1005129-17	SS85-0-1	Sample	
1005129-18	SS89-0-1	Sample	
1005129-19	SB89-6.5-7.5	Sample	
1005129-20	SS78-0-1	Sample	

Prep Lab	6-1-10	Wetchem	6-2-10
Relinquished By	Date	Received By	Date
Wetchem	6-3-10	Storage	6-5-10
Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date
Relinquished By	Date	6-8-10 Received By	Date

CompuChem

A Division Of

Liberty Analytical Corp.

6/29/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S, WorkOrder: 1005130

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005130

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005130

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005130-01	SS23-00-01	Soil	05/10/2010 16:20	05/13/2010 09:30
1005130-02	SB23-1.5-2	Soil	05/10/2010 16:30	05/13/2010 09:30
1005130-03	SS24-0-1	Soil	05/11/2010 10:45	05/13/2010 09:30
1005130-04	SB24-3-4	Soil	05/11/2010 10:55	05/13/2010 09:30
1005130-05	SS49-0-1	Soil	05/11/2010 14:05	05/13/2010 09:30
1005130-06	SB49-11-12	Soil	05/11/2010 14:22	05/13/2010 09:30
1005130-07	SS50-0-1	Soil	05/11/2010 14:45	05/13/2010 09:30
1005130-08	SB47-14-15	Soil	05/12/2010 09:40	05/13/2010 09:30
1005130-09	SS47-0-1	Soil	05/12/2010 09:10	05/13/2010 09:30
1005130-10	SS11-0-1	Soil	05/12/2010 16:05	05/13/2010 09:30
1005130-11	SB11-11-12	Soil	05/12/2010 16:20	05/13/2010 09:30
1005130-12	SB48-7-8	Soil	05/12/2010 11:30	05/13/2010 09:30
1005130-13	SS48-0-1	Soil	05/12/2010 11:00	05/13/2010 09:30
1005130-14	SS18-0-1	Soil	05/12/2010 15:05	05/14/2010 09:20
1005130-15	SB18-12-13	Soil	05/12/2010 15:20	05/14/2010 09:20
1005130-16	SS25-0-1	Soil	05/13/2010 11:05	05/14/2010 09:20
1005130-17	SB25-3-4	Soil	05/12/2010 11:10	05/14/2010 09:20
1005130-18	SS08-0-1	Soil	05/13/2010 12:40	05/14/2010 16:00
1005130-19	SB08-6-7	Soil	05/13/2010 13:00	05/14/2010 16:00
1005130-20	SS05-0-1	Soil	05/14/2010 08:00	05/14/2010 16:00

I. SAMPLE DATA PACKAGE

SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field and analytical samples, reanalyses, blanks, spikes, duplicates, and laboratory control samples. The sample data package consists of the following:

A. Cover Page

B. Sample Data

C. Chain-of-Custody (CoC) Documentation

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005130

A. Cover Page -

Inorganic Analyses Data Package

The Cover Page includes laboratory information, the Case and SDG numbers, the client ID numbers in alphanumeric order showing the client ID numbers cross-referenced with Lab ID numbers, comments, and completion of the statement on the use of ICP background and interelement correction for the samples.

On separate pages, the laboratory will include any problems encountered; both technical and administrative, the corrective action taken, and the resolution. This information is included in the Inorganic Case Summary Narrative which follows the Cover Page.

SW846 - METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
SB08-6-7	1005130-19
SB11-11-12	1005130-11
SB18-12-13	1005130-15
SB23-1.5-2	1005130-02
SB24-3-4	1005130-04
SB25-3-4	1005130-17
SB47-14-15	1005130-08
SB48-7-8	1005130-12
SB49-11-12	1005130-06
SS05-0-1	1005130-20
SS08-0-1	1005130-18
SS11-0-1	1005130-10
SS18-0-1	1005130-14
SS23-00-01	1005130-01
SS24-0-1	1005130-03
SS25-0-1	1005130-16
SS47-0-1	1005130-09
SS48-0-1	1005130-13
SS49-0-1	1005130-05
SS50-0-1	1005130-07
SS50-0-1D	0060167-DUP1
SS50-0-1S	0060167-MS1
SS50-0-1SD	0060167-MSD1

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Susan Bass for Susan Bass Name: Susan W Bass

Date: 6/7/10 Title: Senior Chemist

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE
SDG # 1005130

The indicated Sample Delivery Group (SDG) consisting of twenty (20) solid samples was received into the laboratory information management system (LIMS) on May 13 and 14, 2010 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 0.2 to 4.1°C. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were prepared and analyzed in accordance with SW846 methodology for the requested metal chromium.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV) and blanks (ICB & CCB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verification (PBS & LCSS) was found to be within acceptable ranges and field samples were prepared and analyzed within the specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spikes, CCN = 1005130-07 ID SS50-0-1S and SS50-0-1SD were inside control limits for the requested analyte.

The sample matrix duplicate, CCN = 1005130-07 ID SS50-0-1D was inside control limits for the requested analyte.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 1005130-07 ID SS50-0-1L was performed in accordance with requirements for ICP analysis.

The adjusted sample concentration was inside control limits for the requested analyte.

Control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

Susan W. Bass
Senior Chemist
June 7, 2010

Organic Undecanted Dry Weight Worksheet

0051832

Procedure: 143/190

B. Patterson/A. Lake — Employee

2713/2728 — ID No

Date Assigned: 5-19-10

Temp in: 105°C

Date/Time in: 5-19-10 1810

Temp out: 105°C

Date/Time out: 5-21-10 1600

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1005130-01	SS23-00-01	Sample	1.32	7.56	6.92
1005130-02	SB23-1.5-2	Sample	1.34	7.91	6.67
1005130-03	SS24-0-1	Sample	1.34	8.34	7.55
1005130-04	SB24-3-4	Sample	1.34	7.87	6.74
1005130-05	SS49-0-1	Sample	1.33	7.82	7.29
1005130-06	SB49-11-12	Sample	1.34	7.73	6.20
1005130-07	SS50-0-1	Sample	1.33	7.48	5.38
1005130-08	SB47-14-15	Sample	1.33	8.67	6.38
1005130-09	SS47-0-1	Sample	1.32	8.27	6.89
1005130-10	SS11-0-1	Sample	1.33	8.36	8.09
1005130-11	SB11-11-12	Sample	1.34	8.94	7.39
1005130-12	SB48-7-8	Sample	1.32	8.22	6.76
1005130-13	SS48-0-1	Sample	1.33	8.55	7.56
1005130-14	SS18-0-1	Sample	1.33	9.04	8.46
1005130-15	SB18-12-13	Sample	1.34	7.88	6.86
1005130-16	SS25-0-1	Sample	1.31	7.56	7.26
1005130-17	SB25-3-4	Sample	1.31	7.97	7.55
1005130-18	SS08-0-1	Sample	1.32	7.36	6.75
1005130-19	SB08-6-7	Sample	1.33	8.18	7.04
1005130-20	SS05-0-1	Sample	1.34	7.84	6.48

Entered into Element by: [signature] 5-24-10

Date

CompuChem

A Division Of

Liberty Analytical Corp.

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Method Detection Limit (MDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).

N: This flag indicates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

The extensions: D, S, SD, L. A, added to the end of the client ID represent as follows:

D: matrix duplicate
S: matrix spike
SD: matrix spike duplicate
L: serial dilution
A: post digestion spike

Method Codes:

P: ICP PLASMA
CV: MERCURY COLD VAPOR AA
CA: MIDI-DISTILLATION SPECTROPHOTOMETRIC
MS: MASS SPECTROMETRY
AS: SEMI-AUTOMATED SPECTROPHOTOMETRIC

B. Sample Data

1. Results
2. Quality Control Data
3. Quarterly Verification of Instrument Performance
4. Raw Data
5. Digestion and Distillation Logs

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005130

1. Results

Sample results shall be arranged in packets with the Inorganic Analysis Data Sheet (Form I - IN). These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers, and shall include all the samples in the SDG.

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB08-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-19

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 83.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	13.9			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB11-11-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-11

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	15.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB18-12-13

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-15

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 84.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	9.6			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB23-1.5-2

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-02

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 81.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.4			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB24-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-04

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 82.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	5.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB25-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-17

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	3.1			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB47-14-15

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-08

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 68.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	21.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB48-7-8

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-12

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 78.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2.2			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB49-11-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-06

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 76.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	22.1			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS05-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-20

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 79.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.9			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS08-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-18

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 89.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	10.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS11-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-10

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS18-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-14

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 92.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2.4			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS23-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-01

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 89.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	3.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS24-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-03

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.56	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS25-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-16

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS47-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-09

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 80.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS48-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-13

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 86.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.40	B		P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS49-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-05

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	5.5			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS50-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-07

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 65.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.1	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

2. Quality Control Data

a. Initial and Continuing Calibration Verification
[Form II (Part 1) - IN]

b. CRDL Standard for AA (if applicable) and ICP
[Form II (Part 2) - IN]

c. Blanks
[Form III - IN]

d. ICP Interference Check Sample
[Form IV - IN]

e. Spike Sample Recovery
[Form V (Part 1) - IN]

f. Post Digest Spike Sample Recovery
[Form V (Part 2) - IN]

g. Duplicates
[Form VI - IN]

h. Laboratory Control Sample
[Form VII - IN]

i. Standard Addition Results (if applicable)
[Form VIII - IN]

j. ICP Serial Dilutions
[Form IX - IN]

k. Preparation Log
[Form XIII - IN]

l. Analysis Run Log
[Form XIV - IN]

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chromium	490.0	482.33	98	1000.0	971.99	97	959.14	96	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chromium				1000.0	916.53	92	903.69	90	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chromium				1000.0	960.95	96	946.40	95	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Chromium				1000.0	918.51	92			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

AA CRDL Standard Source:

ICP CRDL Standard Source: HP1004012

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Chromium				10.0	9.07	90.7		

Control Limits: no limits have been established by EPA at this time

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	0.263	B	P

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Chromium			10.0	U	-0.8	B	10.0	U			P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Chromium			10.0	U							P

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Chromium	43	511	42.9	535	104.7			

SW846 - METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SS50-0-1S

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 65.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Chromium	75 - 125	27.9546		1.0783	B	30.35	89		P

Comments:

SW846 - METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SS50-0-1SD

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 65.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Chromium	75 - 125	29.9138		1.0783	B	30.35	95		P

Comments:

6

DUPLICATES

SAMPLE NO.

SS50-0-1D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 65.9 % Solids for Duplicate: 65.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Chromium		1.0783	B	0.9639	B	11.2		P

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Solid LCS Source: ERA-540

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Chromium				60.8	52.49		47.7	73.8	86

9
ICP SERIAL DILUTIONS

SAMPLE NO.

SS50-0-1L

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Chromium	7.11	B	5.43	B	23.6		P

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	6/2/2010	1.00	100.0
PBS	6/2/2010	1.00	100.0
SB08-6-7	6/2/2010	1.04	100.0
SB11-11-12	6/2/2010	1.03	100.0
SB18-12-13	6/2/2010	1.00	100.0
SB23-1.5-2	6/2/2010	1.03	100.0
SB24-3-4	6/2/2010	1.00	100.0
SB25-3-4	6/2/2010	1.02	100.0
SB47-14-15	6/2/2010	1.02	100.0
SB48-7-8	6/2/2010	1.02	100.0
SB49-11-12	6/2/2010	1.02	100.0
SS05-0-1	6/2/2010	1.03	100.0
SS08-0-1	6/2/2010	1.03	100.0
SS11-0-1	6/2/2010	1.03	100.0
SS18-0-1	6/2/2010	1.05	100.0
SS23-00-01	6/2/2010	1.05	100.0
SS24-0-1	6/2/2010	1.05	100.0
SS25-0-1	6/2/2010	1.01	100.0
SS47-0-1	6/2/2010	1.04	100.0
SS48-0-1	6/2/2010	1.02	100.0
SS49-0-1	6/2/2010	1.04	100.0
SS50-0-1	6/2/2010	1.00	100.0
SS50-0-1D	6/2/2010	1.00	100.0
SS50-0-1S	6/2/2010	1.00	100.0
SS50-0-1SD	6/2/2010	1.00	100.0

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID Number: P4 Method: P

Start Date: 6/3/2010 End Date: 6/4/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.00	1508									X																			
S	1.00	1515									X																			
S	1.00	1522																												
S	1.00	1528																												
S	1.00	1534																												
ICV	1.00	1540									X																			
ICB	1.00	1547									X																			
ZZZZZZ	1.00	1554																												
ICSA	1.00	1601									X																			
ICSAB	1.00	1608									X																			
CCV	1.00	1615									X																			
CCB	1.00	1622									X																			
LRS	1.00	1635									X																			
ZZZZZZ	1.00	1651																												
ZZZZZZ	1.00	1658																												
ZZZZZZ	1.00	1705																												
ZZZZZZ	1.00	1712																												
ZZZZZZ	1.00	1720																												
ZZZZZZ	1.00	1727																												
ZZZZZZ	5.00	1737																												
ZZZZZZ	1.00	1744																												
ZZZZZZ	1.00	1751																												
CCV	1.00	1758									X																			
CCB	1.00	1805									X																			
ZZZZZZ	1.00	1814																												
ZZZZZZ	1.00	1821																												
ZZZZZZ	1.00	1828																												
ZZZZZZ	1.00	1838																												
ZZZZZZ	1.00	1846																												
ZZZZZZ	1.00	1853																												
ZZZZZZ	1.00	1900																												
ZZZZZZ	1.00	1907																												
ZZZZZZ	1.00	1914																												
ZZZZZZ	1.00	1922																												
CCV	1.00	1929									X																			
CCB	1.00	1936									X																			
ZZZZZZ	1.00	1943																												
ZZZZZZ	1.00	1950																												

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID Number: P4 Method: P

Start Date: 6/3/2010 End Date: 6/4/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
ZZZZZZ	1.00	1957																												
ZZZZZZ	1.00	2005																												
ZZZZZZ	1.00	2012																												
ZZZZZZ	1.00	2019																												
ZZZZZZ	1.00	2026																												
ZZZZZZ	1.00	2033																												
ZZZZZZ	1.00	2040																												
ZZZZZZ	1.00	2047																												
CCV	1.00	2054									X																			
CCB	1.00	2102									X																			
PBS	1.00	2109									X																			
LCSS	1.00	2116									X																			
SS50-0-1	1.00	2123									X																			
SS50-0-1D	1.00	2130									X																			
SS50-0-1S	1.00	2137									X																			
SS50-0-1SD	1.00	2144									X																			
SS50-0-1L	5.00	2152									X																			
SS50-0-1A	1.00	2159																												
SS23-00-01	1.00	2206									X																			
SB23-1.5-2	1.00	2213									X																			
CCV	1.00	2220									X																			
CCB	1.00	2227									X																			
SS24-0-1	1.00	2234									X																			
SB24-3-4	1.00	2241									X																			
SS49-0-1	1.00	2249									X																			
SB49-11-12	1.00	2256									X																			
SB47-14-15	1.00	2303									X																			
SS47-0-1	1.00	2310									X																			
SS11-0-1	1.00	2317									X																			
SB11-11-12	1.00	2324									X																			
SB48-7-8	1.00	2331									X																			
SS48-0-1	1.00	2339									X																			
CCV	1.00	2346									X																			
CCB	1.00	2353									X																			
SS18-0-1	1.00	0000									X																			
SB18-12-13	1.00	0007									X																			
SS25-0-1	1.00	0014									X																			
SB25-3-4	1.00	0021									X																			

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID Number: P4 Method: P

Start Date: 6/3/2010 End Date: 6/4/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
SS08-0-1	1.00	0029									X																			
SB08-6-7	1.00	0036									X																			
SS05-0-1	1.00	0043									X																			
ZZZZZZ	1.00	0050																												
ZZZZZZ	1.00	0057																												
ZZZZZZ	1.00	0104																												
CCV	1.00	0111									X																			
CCB	1.00	0119									X																			

3. Quarterly Verification of Instrument Performance

a. Instrument Detection Limits (Quarterly)
[Form X - IN]

b. ICP Interelement Correction Factors (Annually)
[Form XI (Part 1) - IN]

c. ICP Interelement Correction Factors (Annually)
[Form XI (Part 2) - IN]

d. ICP Linear Ranges (Quarterly)
[Form XII - IN]

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

ICP ID Number: P4 Date: 4/15/2010

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRQL ug/L	MDL ug/L	M
Chromium	267.72		10	0.75	P

Comments:

SW846 - METALS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

ICP ID Number: P4 Date: 4/15/2010

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRQL mg/Kg	MDL mg/Kg	M
Chromium	267.72		1.00	0.12	P

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000430	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000560	0.0000000	0.0000840	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0001550	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000390	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.000904	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0001440	0.0000000	0.0000000
Lead	220.35	-0.0001560	0.0000000	0.0000000	0.0000000	-0.0004960
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000270	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0004680	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0007960	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0002910	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0052730	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0003220	0.0000000	0.0000000	-0.000280	0.0000000
Cobalt	228.62	0.0000000	0.0001680	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0703370
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0003730
Lead	220.35	0.0000000	0.0000000	-0.0002140	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0005150	0.0000000	0.0000000	0.0000000	-0.0012010
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0003910	0.0000000	-0.0007140	-0.000134	0.0004890
Selenium	196.02	0.0000000	0.0000000	0.0001610	0.0000930	-0.0008840
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	Mn	Mo	Ni
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0021050	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	-0.0030670	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0001080	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0001310	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0068740	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0028440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0001690	-0.0000920	0.0000000	-0.000603	0.0002400
Lead	220.35	0.0000000	0.0000000	0.0001170	-0.001218	0.0001630
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0002310	-0.0001110	0.0000000	0.0000000	-0.0001570
Selenium	196.02	0.0000000	0.0000000	0.0004510	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0007390	0.0000000	0.0000000
Vanadium	292.40	-0.0016760	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0011640	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Pb	Sb	Se	Sn	Tl
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.004391	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000500	-0.0001990	-0.0000650	-0.000243	-0.0000490
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.000264	0.0003640
Lead	220.35	0.0000000	-0.0001490	0.0000000	-0.000187	-0.0011190
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0002150	-0.0005640	0.0000000	-0.000481	-0.0003860
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0001400	-0.0004280
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	Zn			
Aluminum	308.21	0.0168710	0.0000000			
Antimony	206.84	-0.0021410	0.0000000			
Arsenic	189.04	0.0000000	0.0000000			
Barium	493.41	0.0000000	0.0000000			
Beryllium	313.04	0.0052620	0.0000000			
Cadmium	226.50	0.0000000	-0.0000580			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.72	-0.0003410	0.0000000			
Cobalt	228.62	0.0000000	0.0000000			
Copper	324.70	0.0000000	0.0000000			
Iron	271.44	0.0249430	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Lead	220.35	-0.0001610	0.0000000			
Magnesium	279.08	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	0.0003030	-0.0001740			
Selenium	196.02	0.0000000	0.0000000			
Silver	328.07	0.0000000	0.0000000			
Sodium	330.23	0.0000000	0.0376950			
Thallium	190.86	-0.0004340	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	206.20	0.0000000	0.0000000			

Comments:

SW846 - METALS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005130

ICP ID Number: P4 Date: 4/15/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Chromium	15.00	60000.0	P

Comments: _____

4. Raw Data

For each reported value, the laboratory shall include in the data package all raw data used to obtain that value. This applies to all required QA/QC measurements, instrument standardization, as well as all sample analysis results. This does not apply to the Quarterly Verification of Instrument Parameters submitted as a part of each data package.

The order of the raw data in the data package shall be: ICP, Flame AA (if used), Furnace AA (if used), mercury, and cyanide (if a target analyte).

Raw data shall be labeled using EPA sample number convention in order to identify:

- calibration standards, including source and preparation date
- initial and continuing calibration blanks and preparation blanks
- initial and continuing calibration verification standards, interference check samples, ICP serial dilution samples, CRDL standard for ICP and AA (if used), Laboratory Control Sample, and post digestion spike
- diluted and undiluted samples (by client ID number) and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes
- instrument used, including all data voided or data not used and a brief written explanation
- all information for furnace analysis (if used)
- date and time of each analysis (instrument run logs can be submitted if they contain this information
- integration time for AA analyses (if used)

Daily Instrument Profile

Nebulizer pressure: 30
Peak position: 0.0562
Peak intensity: 1301
Vernier position: 493

Maintenance: None

Printed: 6/7/2010 11:20:28 AM

Method(s) (circle one): ILM04.1 ILM05.4 (6010B) 200.7 Other _____

Operator(s): JK **Date/Time** 060310/1509 to 060410/0313

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005039	W	TAL RK
1005130	S	CV Complete
1005208	W	~~Mn~~ Na only 2nd 060210
1006012	W	Mn J

ICP Run Log (P4)

File Name: P40603BB

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CAL1	S0 BLANK	CALIB STD	1	06/03/10	15:08:11		
CAL2	S RSTD-1	CALIB STD	1	06/03/10	15:15:19		
CAL4	S RSTD-3	CALIB STD	1	06/03/10	15:22:27		
CAL3	S RSTD-2	CALIB STD	1	06/03/10	15:28:03		
CAL5	S RSTD-4	CALIB STD	1	06/03/10	15:34:25		
ICV1	ICV1	ICV	1	06/03/10	15:40:00		
ICB1	ICB	ICB	1	06/03/10	15:47:09		
CRL1	CRI	CRI	1	06/03/10	15:54:16		
IFA1	ICSA	ICS	1	06/03/10	16:01:24		
IFB1	ICSAB	ICS	1	06/03/10	16:08:32		
CCV1	CCV	CCV	1	06/03/10	16:15:40		
CCB1	CCB	CCB	1	06/03/10	16:22:48		
LRS	LRS	LRS	1	06/03/10	16:35:41		
0051433-BLK1	PBW	PBW	1	06/03/10	16:51:36	1005039	
0051433-BS1	LCSW	LCS	1	06/03/10	16:58:44	1005039	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Jonesta Date: 6-7-10

File Name: P40603BB

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005039-01	SDZ-WN22	SAMPLE	1	06/03/10	17:05:51	1005039	
0051433-DUP1	SDZ-WN22D	SAMPLE	1	06/03/10	17:12:59	1005039	
0051433-MS1	SDZ-WN22S	SAMPLE	1	06/03/10	17:20:06	1005039	
0051433-MSD1	SDZ-WN22SD	SAMPLE	1	06/03/10	17:27:14	1005039	
SRD1	SDZ-WN22L	SAMPLE	1	06/03/10	17:37:26	1005039	
0051433-PS1	SDZ-WN22A	SAMPLE	1	06/03/10	17:44:33	1005039	
IBL1	IBL	SAMPLE	1	06/03/10	17:51:40		
CCV2	CCV	CCV	1	06/03/10	17:58:49		
CCB2	CCB	CCB	1	06/03/10	18:05:58		
1005039-02	SDZ-WN10	SAMPLE	1	06/03/10	18:14:04	1005039	
1005039-03	SDZ-SW06	SAMPLE	1	06/03/10	18:21:11	1005039	
1005039-04	1005039-04	SAMPLE	1	06/03/10	18:28:19	1005039	
1005039-05	FB050810-SD	SAMPLE	1	06/03/10	18:38:06	1005039	
1005039-06	EB050810-SD	SAMPLE	1	06/03/10	18:46:28	1005039	
1005039-07	SDZ-WN18	SAMPLE	1	06/03/10	18:53:36	1005039	
1005039-08	SDZ-WN19	SAMPLE	1	06/03/10	19:00:44	1005039	
1005039-09	SDZ-WN19D	SAMPLE	1	06/03/10	19:07:52	1005039	
IBL2	IBL	SAMPLE	1	06/03/10	19:14:59		
IBL3	IBL	SAMPLE	1	06/03/10	19:22:07		
CCV3	CCV	CCV	1	06/03/10	19:29:15		Zn ↓
CCB3	CCB	CCB	1	06/03/10	19:36:29		
1005039-10	SDZ-WN16	SAMPLE	1	06/03/10	19:43:37	1005039	
1005039-11	SDZ-WN20	SAMPLE	1	06/03/10	19:50:45	1005039	
1005039-12	SDZ-WN20D	SAMPLE	1	06/03/10	19:57:52	1005039	
1005039-13	SDZ-WN21	SAMPLE	1	06/03/10	20:05:00	1005039	
1005039-14	SDZ-WN01	SAMPLE	1	06/03/10	20:12:07	1005039	
1005039-15	SDZ-WN01D	SAMPLE	1	06/03/10	20:19:14	1005039	
1005039-16	SDZ-WN04	SAMPLE	1	06/03/10	20:26:22	1005039	
1005039-17	SDZ-WN05	SAMPLE	1	06/03/10	20:33:30	1005039	
IBL4	IBL	SAMPLE	1	06/03/10	20:40:38		
IBL5	IBL	SAMPLE	1	06/03/10	20:47:46		
CCV4	CCV	CCV	1	06/03/10	20:54:54		Ca, Zn ↓

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Soriano Date: 6-7-10

ICP Run Log (P4)

File Name: P40603BB

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CCB4	CCB	CCB	1	06/03/10	21:02:08		
0060167-BLK1	PBS	PBS	1	06/03/10	21:09:17	1005130	
0060167-BS1	LCSS	LCS	1	06/03/10	21:16:25	1005130	
1005130-07	SS50-0-1	SAMPLE	1	06/03/10	21:23:32	1005130	
0060167-DUP1	SS50-0-1D	SAMPLE	1	06/03/10	21:30:40	1005130	
0060167-MS1	SS50-0-1S	SAMPLE	1	06/03/10	21:37:48	1005130	
0060167-MSD1	SS50-0-1SD	SAMPLE	1	06/03/10	21:44:55	1005130	
SRD2	SS50-0-1L	SAMPLE	5	06/03/10	21:52:03	1005130	
0060167-PS1	SS50-0-1A	SAMPLE	1	06/03/10	21:59:10	1005130	
1005130-01	SS23-00-01	SAMPLE	1	06/03/10	22:06:18	1005130	
1005130-02	SB23-1.5-2	SAMPLE	1	06/03/10	22:13:25	1005130	
CCV5	CCV	CCV	1	06/03/10	22:20:34		
CCB5	CCB	CCB	1	06/03/10	22:27:43		
1005130-03	SS24-0-1	SAMPLE	1	06/03/10	22:34:51	1005130	
1005130-04	SB24-3-4	SAMPLE	1	06/03/10	22:41:59	1005130	
1005130-05	SS49-0-1	SAMPLE	1	06/03/10	22:49:06	1005130	
1005130-06	SB49-11-12	SAMPLE	1	06/03/10	22:56:14	1005130	
1005130-08	SB47-14-15	SAMPLE	1	06/03/10	23:03:22	1005130	
1005130-09	SS47-0-1	SAMPLE	1	06/03/10	23:10:30	1005130	
1005130-10	SS11-0-1	SAMPLE	1	06/03/10	23:17:38	1005130	
1005130-11	SB11-11-12	SAMPLE	1	06/03/10	23:24:46	1005130	
1005130-12	SB48-7-8	SAMPLE	1	06/03/10	23:31:54	1005130	
1005130-13	SS48-0-1	SAMPLE	1	06/03/10	23:39:02	1005130	
CCV6	CCV1	CCV	1	06/03/10	23:46:10		Zn ↓
CCB6	CCB1	CCB	1	06/03/10	23:53:23		
1005130-14	SS18-0-1	SAMPLE	1	06/04/10	00:00:32	1005130	
1005130-15	SB18-12-13	SAMPLE	1	06/04/10	00:07:39	1005130	
1005130-16	SS25-0-1	SAMPLE	1	06/04/10	00:14:47	1005130	
1005130-17	SB25-3-4	SAMPLE	1	06/04/10	00:21:55	1005130	
1005130-18	SS08-0-1	SAMPLE	1	06/04/10	00:29:03	1005130	
1005130-19	SB08-6-7	SAMPLE	1	06/04/10	00:36:11	1005130	
1005130-20	SS05-0-1	SAMPLE	1	06/04/10	00:43:19	1005130	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Jonesta Date: 6-7-10

File Name: P40603BB

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
0060169-BLK1	PBW	PBW	1	06/04/10	00:50:27	1005208	
0060169-BS1	LCSW	LCS	1	06/04/10	00:57:35	1005208	
0060169-BSD1	LCSWD	LCS	1	06/04/10	01:04:43	1005208	
CCV7	CCV1	CCV	1	06/04/10	01:11:51		Zn ↓
CCB7	CCB1	CCB	1	06/04/10	01:19:05		
1005208-01	MW-22	SAMPLE	1	06/04/10	01:26:13	1005208	
SRD3	MW-22L	SAMPLE	5	06/04/10	01:33:21	1005208	
1005208-02	MW-08	SAMPLE	1	06/04/10	01:40:29	1005208	
1005208-03	MW-21	SAMPLE	1	06/04/10	01:47:37	1005208	
1005208-04	P-4	SAMPLE	1	06/04/10	01:54:45	1005208	
1005208-05	MW-10	SAMPLE	1	06/04/10	02:01:53	1005208	
1005208-06	P-3	SAMPLE	1	06/04/10	02:09:01	1005208	
1006012-01	MW-10	SAMPLE	1	06/04/10	02:16:09	1006012	
SRD4	MW-10L	SAMPLE	5	06/04/10	02:23:18	1006012	
1006012-02	MW-18	SAMPLE	1	06/04/10	02:30:26	1006012	
CCV8	CCV1	CCV	1	06/04/10	02:37:34		
CCB8	CCB1	CCB	1	06/04/10	02:44:43		
1006012-03	MW-17	SAMPLE	1	06/04/10	02:51:51	1006012	
1006012-04	MW-22	SAMPLE	1	06/04/10	02:58:59	1006012	
CCV9	CCV1	CCV	1	06/04/10	03:06:07		
CCB9	CCB1	CCB	1	06/04/10	03:13:15		

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Sonata Date: 6-7-10

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: P30601, P40601A & P40602 P40603BB

HNO_3 [Baker Instra-analyzed Trace-Metals grade]
HCl [Baker Instra-analyzed Trace-Metals grade]
SM-770-027 multi-element standard mix (RSTD-1)
SM-770-028 part A multi-element standard mix (RSTD-2A)
SM-770-028 part B multi-element standard mix (RSTD-2B)
SM-770-029 part A multi-element standard mix (RSTD-3A)
SM-770-029 part B multi-element standard mix (RSTD-3B)
SM-770-030 multi-element standard mix (RSTD-4)
SPEX-R multi-element standard mix
ICP-AES-CRQL-R multi-element standard mix
ICV1 multi-element standard mix
ICSA multi-element standard mix
ICSB multi-element standard mix
SM-770-031 multi-element standard mix (PDS-R)
ARSENIC (As) 1,000 PPM single-element standard
Internal Mix
SM-770-040 multi-element CCV mix (Soln A)
SM-770-040 multi-element CCV mix (Soln B)
SM-770-042 (LRS 6010B)

Ref #*	Manufacturer	Lot #	Expiration Date
0 E19001	JT Baker	J10027	05/15
0 E20028	Caledon	7 2420	05/15
9G08002	High Purity	0916328	06/15/10
9J22002	High Purity	0928011	10/12/2010
9J22001	High Purity	0928012	10/12/2010
0D14008	High Purity	0925430	04/09/11
9G08005	High Purity	0906204	10/16/10
9G08001	High Purity	0916327	06/15/10
0A04007	High Purity	0916301	06/15/10
9I04002	High Purity	0923808	08/28/10
0B04003	EPA	0307	02/04/11
0B04002	EPA	1206	02/04/11
0B04001	EPA	0203	02/04/11
9I22001	High Purity	0926418	09/17/10
9F17001	High Purity	0911221	12/05/10
0B04004	High Purity	0934101	12/10/10
0E03001	High Purity	1010910	04/21/11
0E03001	High Purity	1010911	04/21/11
0B23007	High Purity	1004021	02/10/11

Multi-Element Stock Standard Concentrations:

Stock Standard	Analyte Concentrations (ug/mL)
RSTD-1 multi-element standard mix	Cd:1,000 Cr:1,000 Cu:1,000 Pb:1,000 Ni:1,000 Se:1,000 Ag:100 Tl:1,000 Zn:1,000
RSTD-2A/2B multi-element standard mix	Part A: As:1,000 Ba:1,000 Be:1,000 Co:1,000 Mn:1,000 Mo:1,000 V:1,000 Part B: Fe:25,000
RSTD-3A/3B multi-element standard mix	Part A: Ca:10,000 Mg:10,000 K:10,000 Na:10,000 Part B: Al:10,000
RSTD-4 multi-element standard mix	Sb:1,000 Bi:1,000 B:1,000 Sn:1,000 Ti:1,000
SPEX-R multi-element standard mix	Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 B:1,000
ICP-AES-CRQL-R multi-element standard mix	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60
PDS-R multi-element standard mix	Al:400 Ba:400 Ag:20 Be:10 Cd:10 Co:100 Cr:20 Cu:50 Fe:200 Mn:30 Ni:80 Tl:20 V:100 Zn:40 Pb:6 Se:10 As:20 Sb:120
Internal Mix	Li:50,000 Y:250
LRS 6010B multi-element standard mix	Al: 20 Sb:1 As:1 Ba:20 Be:0.5 Bi:2 B:2 Cd:0.5 Ca:500 Cr:1 Co:0.5 Cu:0.5 Fe:10 Pb:0.3 Mg:500 Mn:1 Mo:2 Ni:0.5 K:500 Se:0.5 Ti:0.5 V:2 Zn:2

Entered By: _____

Reviewed By: _____ Date: 6-3-10

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log
**High Purity is abbreviated "HP" on reporting forms

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 2 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

Standard Lot Number*	LIMS ID Number	Preparation Instructions	Resultant Analyte Conc. (ug/L)
S0/ICB/CCB- 052310-JK	0E23005	Place in a 500 mL volumetric flask: 100 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Bring up to volume with deionized water. Transfer to a 2L Teflon bottle and add 1.5L deionized water. Final volume 2 L. Prepare as needed.	N/A
RSTD-1- 052610-JK	0E26010	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-1 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
RSTD-2- 052610-JK	0E26011	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL each RSTD-2A and RSTD-2B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:50,000 Mn:2,000 Mo:2,000 V:2,000
RSTD-3- 052610-JK	0E26012	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 2.0 mL each RSTD-3A and RSTD-3B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	K:100,000 Na:100,000 Al:100,000 Mg:100,000 Ca:100,000
RSTD-4- 052610-JK	0E26013	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-4 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Tl:2,000 Sb:2,000 B:2,000
ICV1- 051110-JK	0E11002	Place in a 500 mL volumetric flask: 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICV1 into flask and 0.55 mL Compuchem SPEX-R. Bring up to volume with deionized water. Transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:2,521 Ba:497 K:10,021 Mg:6,074 Na:10,097 Ca:10,026 Ag:501 Be:495 Cd:496 Co:499 Cr:490 Cu:492 Fe:5,082 Mn:499 Ni:503 Tl:1,028 V:501 Zn:1,025 Pb:1002 Se:1,029 As:999 Sb:994 Mo:1,100 Sn:1,100 Bi:1,100 Tl:1,100 B:1,100
CCV/CVS1- 051210-SGM	0E12009	Place in a 500-mL volumetric flask: 300 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Add 50 ml of SM-770-40 Soln A and Soln B. Bring up to volume with deionized water. Transfer to a 2000mL Teflon bottle and add 1.5 L of deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:25,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,100 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Tl:1,000 Sb:1,000 B:1,000
LRS- 042510-JK	0D25008	In a 500 mL volumetric flask, combine 200 mL deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 5.0mL of LRS 6010B. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:200 Ba:200 K:5,000 Mg:5,000 Na:5,000 Ca:5,000 Ag:5 Be:5 Cd:5 Co:10 Cr:10 Cu:5 Fe:100 Mn:10 Ni:5 Tl:10 V:20 Zn:20 Pb:3 Se:5 As:10 Mo:20 Sn:20 Bi:20 Tl:20 Sb:10 B:20

Standard Solutions Prepared By: 2

Entered By: 2

Reviewed By: L. Jones

Date: 6-3-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

Standard Lot Number*	LIMS ID Number	Preparation Instructions	Resultant Analyte Conc. (ug/L)
As- 051310-JY	0E13006	In a 100 mL volumetric flask, combine 50 mL deionized water, 1 mL concentrated HNO_3, 5 mL concentrated HCl, and 0.1 mL 1000-ppm As standard. Bring to final 100 mL volume	As:1,000
ICSA- 051810-JY	0E18020	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Al:244,100 Ba:2 Ca:234,900 Co:4 Cr:43 Cu:23 Fe:95,600 Mg:247,500 Mn:19 Ni:21 Zn:28 Pb:10
ICSAB- 051810-JY	0E18021	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA and 50.0 mL ICSB into flask. Add 0.5 mL Compuchem SPEX-R. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Ag:206 Al:241,100 Ba:495 Be:475 Ca:231,100 Cd:940 Co:461 Cr:511 Cu:548 Fe:94,800 Mg:251,100 Mn:502 Ni:984 Tl:103 V:494 Zn:1028 Pb:61 Se:53 Sb:589 As:101 Sn:1,000 Bi:1,000 Mo:1,000 Tl:1,000 B:1,000
EPA-CRI- 052310-JY	0E23004	In a 500 mL volumetric flask, combine 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 0.50 mL ICP-AES-CRQL-R and 25 µL Compuchem SPEX-R into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60 Sn:50 B:50 Mo:50 Bi:50 Tl:50
P3RINSE- 050910-JY	0E09008	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P4RINSE- 050910-JY	0E09006	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P5RINSE- NA	NA	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P3INTSTD- 050910-JY	0E09007	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P4INTSTD- ~~050410-JY~~ 051110-JY ~~060210~~	0E11004	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P5INTSTD- NA	NA	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000

Standard Solutions Prepared By: _____

Entered By: _____

Reviewed By: L. Jonasta

Date: 6-3-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

METHOD: ALT-P4Q2 STANDARD: S0 BLANK
RUN TIME: 06/03/10 15:08:11

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
AVGE	.00200	.35157	.04225	.11426	.02791	.11305	.07781
SDEV	.00700	.00659	.00009	.00216	.00079	.00173	.00049
%RSD	350.00	1.8732	.21579	1.8865	2.8182	1.5300	.63107
#1	.01000	.34991	.04215	.11520	.02826	.11137	.07736
#2	-.00100	.35882	.04233	.11580	.02846	.11482	.07833
#3	-.00300	.34597	.04228	.11180	.02701	.11297	.07774

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
AVGE	.00127	.57530	-.00233	.06476	.00403	.00080	.00151
SDEV	.00060	.00808	.00112	.00670	.00084	.00012	.00204
%RSD	47.060	1.4049	48.057	10.341	20.814	15.637	135.48
#1	.00192	.57997	-.00239	.07209	.00433	.00072	-.00072
#2	.00073	.56597	-.00341	.06325	.00308	.00073	.00195
#3	.00117	.57997	-.00117	.05895	.00467	.00094	.00329

ELEM	NI2316	TL1908	V_2924	ZN2062	SB2068	AS1890	22031
AVGE	-.00067	-.02274	.00072	.00016	.01524	-.01764	.08282
SDEV	.00305	.01488	.00001	.00036	.00255	.00862	.01392
%RSD	457.74	65.449	1.7579	234.27	16.705	48.842	16.811
#1	-.00287	-.03233	.00072	.00024	.01796	-.01892	.06898
#2	-.00195	-.00560	.00073	-.00024	.01484	-.02554	.09682
#3	.00282	-.03030	.00070	.00047	.01292	-.00846	.08268

ELEM	22032	19601	19602	SN1899	BI2230	MO2020	TI3349
AVGE	-.02885	-.07138	.08179	-.01656	.00314	.00168	-.01247
SDEV	.00086	.01193	.01467	.01934	.00461	.00270	.00335
%RSD	2.9853	16.713	17.932	116.73	146.69	160.81	26.892
#1	-.02970	-.08095	.07568	-.02299	.00024	.00479	-.01365
#2	-.02798	-.07517	.09852	-.03187	.00073	.00024	-.01508
#3	-.02889	-.05801	.07117	.00517	.00846	.00000	-.00869

METHOD: ALT-P4Q2 STANDARD: S RSTD-1
RUN TIME: 06/03/10 15:15:19

ELEM	AG3280	CD2265	CR2677	CU3247	NI2316	TL1908	ZN2062
AVGE	5.9057	20.650	4.4054	125.11	7.5849	6.9054	2.2493
SDEV	.0173	.342	.0819	.20	.1110	.0859	.0306
%RSD	.29376	1.6575	1.8585	.16174	1.4640	1.2437	1.3594
#1	5.9167	20.274	4.3108	125.17	7.4629	6.8158	2.2183
#2	5.9147	20.944	4.4515	125.27	7.6800	6.9870	2.2795
#3	5.8857	20.731	4.4537	124.88	7.6117	6.9133	2.2501

ELEM	22031	22032	19601	19602
AVGE	35.018	12.365	10.312	18.324
SDEV	.295	.148	.139	.251
%RSD	.84142	1.1930	1.3509	1.3723
#1	34.845	12.211	10.237	18.044
#2	35.359	12.505	10.473	18.530
#3	34.852	12.380	10.227	18.397

METHOD: ALT-P4Q2 STANDARD: S RSTD-3
RUN TIME: 06/03/10 15:22:27

ELEM	AL3082	CA3179	K_7664	MG2790	NA3302
AVGE	62.146	79.325	474.40	66.325	4.1899
SDEV	.401	.949	.64	.536	.0154
%RSD	.64520	1.1959	.13461	.80854	.36736
#1	62.411	79.601	475.11	66.910	4.1981
#2	61.685	78.268	473.87	65.856	4.1722
#3	62.342	80.104	474.21	66.211	4.1996

METHOD: ALT-P4Q2 STANDARD: S RSTD-2
RUN TIME: 06/03/10 15:28:03

ELEM	BA4934	BE3130	CO2286	FE2714	MN2576	V_2924	AS1890
AVGE	30.505	16.331	4.2531	6.0658	4.5601	3.4330	15.955
SDEV	.200	.093	.0527	.0496	.0424	.0480	.164
%RSD	.65698	.56854	1.2387	.81799	.92928	1.3979	1.0249
#1	30.709	16.402	4.2947	6.1059	4.5748	3.4862	16.089
#2	30.498	16.365	4.2707	6.0812	4.5932	3.4198	16.005
#3	30.308	16.226	4.1939	6.0103	4.5123	3.3929	15.773

ELEM	MO2020
AVGE	3.7941
SDEV	.0116
%RSD	.30650
#1	3.7815
#2	3.8045
#3	3.7964

METHOD: ALT-P4Q2 STANDARD: S RSTD-4
RUN TIME: 06/03/10 15:34:25

ELEM	SB2068	SN1899	BI2230	TI3349
AVGE	5.6159	22.243	4.2188	42.628
SDEV	.0409	.091	.0268	.342
%RSD	.72776	.41076	.63454	.80336
#1	5.6156	22.167	4.2080	42.375
#2	5.5751	22.218	4.1991	42.490
#3	5.6569	22.345	4.2493	43.017

METHOD: ALT-P4Q2 SAMPLE NAME: ICV1 OPERATOR:
RUN TIME: 06/03/10 15:40:00
COMMENT: ICV1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	490.4019	2351.573	499.3970	491.6914	9643.050	493.7369	499.2057
SDEV	6.3442	62.531	14.2984	14.3015	282.182	16.7800	16.4684
%RSD	1.293677	2.659101	2.863138	2.908625	2.926270	3.398576	3.298913
#1	485.6030	2283.476	482.9283	475.2502	9326.755	475.0061	480.4976
#2	488.0081	2406.410	506.6162	498.5716	9733.415	498.8084	505.6079
#3	497.5948	2364.834	508.6466	501.2523	9868.980	507.3961	511.5115
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	501.0000	2521.000	497.0000	495.0000	10026.00	496.0000	499.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	482.3255	498.9989	4857.913	10504.16	5909.825	490.6511	9451.143
SDEV	11.8173	4.8092	120.456	248.68	141.535	13.5586	287.433
%RSD	2.450072	.9637654	2.479593	2.367461	2.394909	2.763381	3.041248
#1	468.7249	493.9830	4720.612	10261.79	5749.158	475.0140	9128.620
#2	488.1681	499.4432	4907.299	10758.71	6016.075	499.1361	9680.241
#3	490.0834	503.5706	4945.827	10491.99	5964.242	497.8033	9544.567
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	490.0000	492.0000	5082.000	10021.00	6074.000	499.0000	10097.00
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	498.6247	1026.247	486.4936	952.8043	996.4682	1001.995	995.2397
SDEV	15.7160	29.754	10.0311	30.4950	18.9350	21.576	23.4146
%RSD	3.151873	2.899314	2.061916	3.200555	1.900213	2.153306	2.352658
#1	481.0627	992.2803	475.1525	921.0960	974.6117	977.7499	968.3060
#2	503.4466	1038.759	494.2033	955.3964	1006.892	1019.082	1006.664
#3	511.3649	1047.702	490.1249	981.9206	1007.901	1009.154	1010.750
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	503.0000	1028.000	501.0000	1025.000	1002.000	1029.000	994.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	985.1520	999.9721	994.7145	1006.731	999.6287	1087.778	1084.837
SDEV	26.2825	27.7376	14.7482	26.314	19.5110	26.108	27.914
%RSD	2.667866	2.773842	1.482659	2.613839	1.951828	2.400157	2.573060
#1	954.8331	968.0969	977.8599	976.4125	978.4150	1057.827	1052.637
#2	999.1520	1018.622	1001.032	1023.637	1016.806	1099.778	1099.709
#3	1001.471	1013.197	1005.252	1020.143	1003.665	1105.728	1102.166
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	999.0000					1100.000	1100.000
RANGE	10.40000					10.40000	10.40000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1069.392	1086.611	4154.222
SDEV	27.494	29.140	80.569
%RSD	2.570965	2.681700	1.939444
#1	1039.233	1053.102	4232.800
#2	1075.886	1106.007	4071.800
#3	1093.058	1100.725	4158.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1100.000	1100.000	
RANGE	10.40000	10.40000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICB OPERATOR:
RUN TIME: 06/03/10 15:47:09
COMMENT: ICB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0903342	-10.5343	.0247138	-.150288	371.7903	.0414193	.8165076
SDEV	.2041908	5.0214	.0493775	.127379	.3973	.1262447	.2540157
%RSD	226.0393	47.66754	199.7972	84.75654	.1068652	304.7970	31.11002
#1	.3048780	-16.3122	.0122852	-.226664	372.1795	-.057066	.5760096
#2	-.101626	-7.22439	.0791182	-.220959	371.8061	.1837382	1.082168
#3	.0677507	-8.06637	-.017262	-.003240	371.3853	-.002414	.7913450
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.319230	-.224832	3.956683	-1439.24	2.460525	.1215224	-50.5872
SDEV	.320117	.203349	10.19863	1.57	.994603	.0592226	37.8589
%RSD	100.2779	90.44489	257.7571	.1092630	40.42238	48.73391	74.83897
#1	-.138616	-.069591	14.77803	-1440.99	2.879392	.1528638	-10.8848
#2	-.688837	-.149888	-5.47716	-1437.94	1.324999	.1584884	-54.5925
#3	-.130236	-.455018	2.569177	-1438.79	3.177185	.0532152	-86.2842
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2493855	2.688722	.2452464	1.041426	1.125447	-.167566	1.781056
SDEV	1.439319	1.319934	.3551435	.127008	.342261	2.461541	.123345
%RSD	577.1461	49.09149	144.8109	12.19561	30.41113	1469.000	6.925392
#1	-1.03889	4.173283	.5703740	.8947855	1.453834	-1.25297	1.828587
#2	-.015811	2.245245	-.133757	1.112885	1.151686	2.650132	1.641017
#3	1.802861	1.647638	.2991219	1.116608	.7708222	-1.89986	1.873565
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4207847	.5528155	1.408397	.9740524	-.740456	.1821562	.6860879
SDEV	2.535916	2.182480	.881077	4.155256	2.029016	3.012638	1.258463
%RSD	602.6636	394.7935	62.55887	426.5947	274.0224	1653.876	183.4259
#1	2.572414	2.934011	.7119485	1.239583	-2.50029	1.727673	-.685524
#2	-2.37513	-1.35238	2.398896	4.990175	1.478919	-3.28959	.9562740
#3	1.065069	.0768138	1.114346	-3.30760	-1.20000	2.108383	1.787514
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.169037	.0532827	4112.333
SDEV	.514569	.0740543	38.116
%RSD	23.72341	138.9839	.9268767
#1	2.566327	.0623537	4154.866
#2	2.353016	-.024889	4100.866
#3	1.587766	.1223835	4081.266
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 06/03/10 15:54:16
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.954381	-26.2034	-.116059	4.820828	371.9964	5.279169	51.87387
SDEV	.371601	17.3201	.092352	.548321	.3908	.090174	.12316
%RSD	4.149936	66.09860	79.57352	11.37401	.1050515	1.708115	.2374293
#1	9.383469	-45.3391	-.156129	4.204312	372.4340	5.233302	51.76507
#2	8.739837	-21.6710	-.181609	5.004239	371.8732	5.221147	52.00759
#3	8.739837	-11.6002	-.010439	5.253934	371.6821	5.383056	51.84895
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.11562	24.60306	11.89950	-1441.04	-.042579	15.48528	-42.5749
SDEV	.21500	.37674	3.97064	3.35	2.636636	.24447	62.5840
%RSD	2.125403	1.531283	33.36809	.2327365	6192.322	1.578714	146.9973
#1	10.35366	24.90284	15.84161	-1438.03	2.852206	15.25837	4.671723
#2	9.935555	24.72619	7.900934	-1444.65	-.673261	15.45330	-113.554
#3	10.05763	24.18016	11.95597	-1440.43	-2.30668	15.74416	-18.8424
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	41.13396	27.29370	49.01770	60.82885	11.67961	34.70587	64.36736
SDEV	.75975	3.20614	.85898	.93599	.88620	2.05833	1.34746
%RSD	1.847015	11.74681	1.752390	1.538720	7.587602	5.930785	2.093384
#1	40.28331	23.62826	48.36354	61.87409	12.45409	32.71382	63.54296
#2	41.74508	28.67616	48.69910	60.06816	10.71315	34.57919	65.92233
#3	41.37348	29.57669	49.99046	60.54431	11.87159	36.82463	63.63679
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.824267	10.27372	12.37820	33.38994	35.35993	52.30982	48.52591
SDEV	1.551063	3.37005	1.01002	3.73024	1.93769	1.83365	2.48275
%RSD	15.78808	32.80264	8.159703	11.17176	5.479892	3.505369	5.116335
#1	11.51192	11.10291	13.12544	31.88725	33.12363	52.01873	45.72557
#2	8.461146	6.566472	12.78007	30.64541	36.54017	54.27161	49.39446
#3	9.499734	13.15179	11.22910	37.63717	36.41598	50.63913	50.45769
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000					50.00000	
RANGE	3.000000					15.00000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	51.50607	51.10168	4123.955
SDEV	.94019	.26061	94.885
%RSD	1.825395	.5099887	2.300832
#1	50.47031	50.97429	4230.066
#2	52.30565	51.40148	4094.533
#3	51.74225	50.92926	4047.266
ERRORS	NOCHECK	NOCHECK	NOCHECK
VALUE			
RANGE			

METHOD: ALT-P4Q2 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 06/03/10 16:01:24
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.079042	241387.2	2.586545	.9988183	259348.4	7.742104	2.644753
SDEV	.141034	6802.6	.070761	.2417497	9452.5	.635936	1.106820
%RSD	178.4285	2.818142	2.735715	24.20357	3.644721	8.213999	41.84966
#1	.0338753	239381.9	2.662135	1.180861	255051.5	7.189140	2.184451
#2	-.033875	235812.6	2.521887	.7245261	252807.7	7.600149	1.842362
#3	-.237127	248967.0	2.575614	1.091068	270186.1	8.437021	3.907446
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	10.00000	48820.00	400.0000	10.00000	46980.00	10.00000	10.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	42.89615	23.19519	97821.04	-1432.22	263835.7	19.91152	865.8347
SDEV	1.90218	.44312	3186.08	1.05	8592.3	.85216	18.0531
%RSD	4.434393	1.910383	3.257053	.0733251	3.256700	4.279710	2.085057
#1	41.12450	22.86329	96194.80	-1431.04	259265.9	19.50514	882.8273
#2	42.65760	23.02389	95776.24	-1432.58	258493.8	19.33863	867.7958
#3	44.90636	23.69838	101492.1	-1433.05	273747.2	20.89080	846.8811
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	10.00000	19120.00	2000.000	49500.00	20.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	22.47495	11.13746	-1.94204	33.20870	8.935223	-6.06088	1.493376
SDEV	.52487	5.00341	.91141	.98434	.880981	1.27435	2.140871
%RSD	2.335375	44.92414	46.93084	2.964098	9.859639	21.02589	143.3578
#1	22.70734	5.766212	-2.93117	32.15167	7.920210	-5.47048	-.973433
#2	22.84351	11.98016	-1.75875	33.37535	9.501378	-5.18879	2.587251
#3	21.87400	15.66601	-1.13619	34.09907	9.384079	-7.52336	2.866311
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	1.000000	28.00000	10.00000	.0000000	.0000000
RANGE	10.00000	20.00000	40.00000	40.00000	6.000000	10.00000	20.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.071032	-1.45801	14.12022	1.708910	-9.94301	2.103246	4.574937
SDEV	1.061287	.73949	1.01983	2.637852	.59396	.392746	.655701
%RSD	99.09016	50.71933	7.222472	154.3587	5.973607	18.67332	14.33247
#1	.6319674	-2.16374	12.95078	2.898723	-9.65189	1.655781	3.987684
#2	.2997324	-.688839	14.58509	3.542278	-9.55079	2.263096	4.454687
#3	2.281395	-1.52146	14.82478	-1.31427	-10.6264	2.390860	5.282441
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	20.00000					100.0000	100.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.1720463	-5.03826	3950.000
SDEV	2.061467	.16959	70.232
%RSD	1198.205	3.366078	1.778037
#1	1.280360	-5.11161	3933.333
#2	-2.20649	-4.84433	4027.066
#3	1.442274	-5.15882	3889.600
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	100.0000	100.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 06/03/10 16:08:32
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	207.5316	241704.0	496.0880	501.8623	264102.2	996.5381	505.8439
SDEV	.4866	4774.9	9.4337	8.8885	4752.3	18.6175	7.0577
%RSD	.2344695	1.975531	1.901622	1.771102	1.799410	1.868221	1.395239
#1	207.8929	244077.8	505.8202	505.6370	265729.6	1010.043	507.8274
#2	206.9783	236207.3	486.9842	491.7094	258750.0	975.3003	498.0067
#3	207.7236	244826.8	495.4597	508.2404	267826.9	1004.271	511.6977
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	92.20000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	535.1257	539.5169	98484.64	-1426.76	262989.8	527.9434	843.9521
SDEV	4.9971	1.3580	1279.31	1.23	3735.1	3.8592	51.2841
%RSD	.9338259	.2516989	1.298993	.0860717	1.420245	.7309849	6.076662
#1	536.2703	540.6999	99212.22	-1426.27	265337.5	527.4699	861.2624
#2	529.6556	538.0341	97007.48	-1428.15	258682.7	524.3428	786.2529
#3	539.4514	539.8166	99234.23	-1425.85	264949.2	532.0175	884.3411
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1033.359	114.8859	498.1311	994.3837	58.85162	45.31685	624.5802
SDEV	17.559	6.0950	6.6870	16.9722	1.39596	3.28986	11.8793
%RSD	1.699202	5.305229	1.342423	1.706809	2.372007	7.259691	1.901969
#1	1045.767	121.5353	500.7893	1002.687	60.44121	46.65515	633.1004
#2	1013.268	109.5644	490.5237	974.8584	58.28842	Q41.56876	611.0103
#3	1041.041	113.5578	503.0802	1005.606	57.82524	47.72665	629.6299
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	20.60000	98.80000	205.6000	12.20000	10.60000	117.8000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	100.8848	43.52416	66.50090	54.24446	40.85677	1009.984	1013.468
SDEV	1.5868	2.19027	1.35746	5.62114	2.19572	20.267	17.975
%RSD	1.572886	5.032314	2.041265	10.36262	5.374194	2.006675	1.773585
#1	100.0718	45.31556	67.98969	55.61189	42.18049	1021.957	1023.293
#2	99.86923	44.17455	65.33186	48.06576	38.32221	986.5834	992.7223
#3	102.7134	41.08235	66.18115	59.05573	42.06762	1021.410	1024.389
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	101.0000					1000.000	1000.000
RANGE	20.20000					200.0000	200.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	965.4026	989.7908	4079.244
SDEV	13.7180	19.5593	64.198
%RSD	1.420963	1.976100	1.573773
#1	975.1309	1000.115	4037.133
#2	949.7123	967.2326	4153.133
#3	971.3645	1002.025	4047.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	200.0000	200.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/03/10 16:15:40
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	94.19602	47637.98	991.6397	983.5101	47575.14	965.2388	975.5687
SDEV	.05175	233.86	5.5115	5.1017	260.14	17.0187	12.0227
%RSD	.0549369	.4909014	.5557975	.5187218	.5467995	1.763161	1.232383
#1	94.20731	47519.61	996.8647	979.7245	47426.11	974.6963	982.2724
#2	94.13956	47907.36	985.8806	981.4941	47423.79	945.5918	961.6887
#3	94.24119	47486.98	992.1738	989.3118	47875.52	975.4282	982.7449
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	971.9929	962.2014	23965.19	52194.66	50072.02	988.0435	49965.25
SDEV	6.1614	2.3743	158.16	235.50	100.56	5.4494	17.90
%RSD	.6338960	.2467598	.6599699	.4511860	.2008341	.5515321	.0358315
#1	968.4997	959.7390	23993.43	52309.84	50187.88	993.7946	49969.11
#2	979.1071	962.3888	23794.81	51923.74	50007.44	982.9568	49945.73
#3	968.3719	964.4765	24107.34	52350.39	50020.73	987.3791	49980.90
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	980.3076	1007.447	985.2740	1011.078	983.3344	1013.067	1017.821
SDEV	12.4262	8.898	13.7837	19.976	13.5531	13.006	7.541
%RSD	1.267584	.8832267	1.398972	1.975746	1.378277	1.283850	.7409049
#1	987.6575	1004.745	979.5144	1012.291	985.8263	1013.973	1022.270
#2	965.9605	1000.214	1001.003	990.5230	968.7083	999.6307	1009.114
#3	987.3049	1017.384	975.3043	1030.420	995.4686	1025.596	1022.078
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	997.9770	980.5591	984.7154	1020.753	1009.226	1006.016	1006.953
SDEV	7.2883	12.7008	14.4081	11.906	14.452	13.155	9.795
%RSD	.7303061	1.295257	1.463169	1.166414	1.432015	1.307646	.9727191
#1	999.6766	978.3832	989.5377	1015.280	1013.317	1004.376	1004.312
#2	989.9891	969.0869	968.5147	1012.568	993.1690	993.7585	998.7496
#3	1004.265	994.2073	996.0938	1034.412	1021.191	1019.915	1017.798
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	985.3397	1003.821	3939.955
SDEV	9.3917	8.070	12.613
%RSD	.9531415	.8039141	.3201207
#1	988.9217	1001.159	3929.266
#2	974.6841	1012.885	3953.867
#3	992.4133	997.4173	3936.733
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/03/10 16:22:48
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0677507	-12.1040	-.005625	-.169172	382.7746	.9337961	2.679090
SDEV	.2557532	1.4565	.023064	.156804	1.2246	.2647127	.506050
%RSD	377.4917	12.03324	410.0454	92.68872	.3199387	28.34802	18.88887
#1	.3387534	-12.3982	-.024745	-.167318	383.4951	1.000814	2.464852
#2	-.169377	-10.5228	-.012119	-.013304	381.3606	.6420155	2.315397
#3	.0338753	-13.3909	.0199903	-.326895	383.4682	1.158559	3.257020
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.213242	-.203420	8.706660	-1432.79	17.52503	.2897986	19.92943
SDEV	.385491	.379470	7.130480	2.28	2.88779	.1243225	54.04128
%RSD	180.7764	186.5451	81.89685	.1589724	16.47810	42.89961	271.1631
#1	-.577558	.0910034	2.711875	-1430.86	14.23929	.3618017	-4.75041
#2	-.252575	-.631671	6.816245	-1435.30	18.67568	.1462436	-17.3657
#3	.1904079	-.069591	16.59186	-1432.21	19.66012	.3613505	81.90441
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1214407	.3016453	.2384617	.7520521	.7727051	-1.99037	2.403581
SDEV	1.211118	1.936636	.4306894	.2404616	.4202128	1.31557	.236173
%RSD	997.2914	642.0242	180.6116	31.97405	54.38203	66.09645	9.825899
#1	.6892682	2.095401	.1441901	.8932828	1.252269	-3.35064	2.582665
#2	-1.26926	.5612231	-.137283	.8884686	.5968952	-1.89588	2.135925
#3	.9443172	-1.75169	.7084781	.4744050	.4689509	-.724603	2.492153
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.263222	.5372168	.8873850	-3.56403	-1.20761	.5228279	-.122668
SDEV	.556379	2.263608	.5019565	1.05505	1.75694	.9065219	1.086105
%RSD	211.3729	421.3584	56.56582	29.60256	145.4889	173.3882	885.4059
#1	-.699614	3.096894	.3284394	-4.59466	-2.73246	1.013359	-1.37571
#2	-.453350	-.284409	1.034022	-2.48616	-1.60404	-.523260	.5489129
#3	.3632993	-1.20083	1.299693	-3.61129	.7136756	1.078385	.4587989
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.655703	.1343579	4183.622
SDEV	.269338	.1458045	29.215
%RSD	16.26726	108.5195	.6983274
#1	1.920615	.0414552	4165.667
#2	1.382148	.0592124	4217.333
#3	1.664346	.3024060	4167.866
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: LRS OPERATOR:
RUN TIME: 06/03/10 16:35:41
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.771454	157.8427	196.7012	4.728455	5010.627	5.407544	6.056285
SDEV	.295965	17.2185	7.7241	.438614	53.223	.257076	.701763
%RSD	7.847508	10.90864	3.926821	9.276044	1.062193	4.754022	11.58734
#1	4.098916	172.6304	204.7345	5.211361	5032.726	5.523372	6.530118
#2	3.523035	138.9393	189.3288	4.354779	4949.915	5.112932	5.250086
#3	3.692412	161.9584	196.0402	4.619225	5049.240	5.586327	6.388650
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	300.0000	300.0000	7.500000	7500.000	7.500000	7.500000
LOW	2.500000	100.0000	100.0000	2.500000	2500.000	2.500000	2.500000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.068360	5.037311	56.57507	4420.556	4921.572	9.817938	4592.879
SDEV	.586726	.334175	11.11085	153.503	121.329	.220993	95.985
%RSD	6.470038	6.634003	19.63912	3.472493	2.465257	2.250913	2.089857
#1	8.432077	4.651885	L49.02527	4595.620	5030.893	9.942276	4703.657
#2	9.184996	5.246084	51.36659	4308.987	4791.033	9.562784	4534.466
#3	9.588009	5.213965	69.33337	4357.060	4942.790	9.948753	4540.513
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	15.00000	7.500000	150.0000	7500.000	7500.000	15.00000	7500.000
LOW	5.000000	2.500000	50.00000	2500.000	2500.000	5.000000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.944641	11.66553	20.03983	19.07639	3.574573	3.975064	8.838507
SDEV	.786583	2.21538	.49438	.13434	.477446	1.161997	1.877043
%RSD	15.90779	18.99078	2.466971	.7042240	13.35671	29.23215	21.23710
#1	4.036437	14.20006	20.55087	19.20593	3.073083	3.309589	6.770491
#2	5.408126	10.69831	19.56400	18.93772	3.626989	5.316808	9.310579
#3	5.389358	10.09823	20.00463	19.08552	4.023648	3.298796	10.43445
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	15.00000	30.00000	30.00000	4.500000	7.500000	15.00000
LOW	2.500000	5.000000	10.00000	10.00000	1.500000	2.500000	5.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.820931	5.017795	2.850796	5.869196	3.026531	20.83536	20.01159
SDEV	1.524808	2.671205	2.042184	2.172754	1.815589	.98372	.18564
%RSD	17.28625	53.23463	71.63557	37.01963	59.98909	4.721383	.9276844
#1	7.356257	8.005406	.6072732	3.454138	3.234450	20.37379	20.15039
#2	10.39949	4.188046	3.343695	6.488096	4.729209	21.96499	19.80071
#3	8.707049	2.859934	4.601421	7.665354	1.115934	20.16730	20.08366
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	15.00000					30.00000	30.00000
LOW	5.000000					10.00000	10.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	20.27257	19.65617	4185.222
SDEV	.47404	.19014	107.421
%RSD	2.338341	.9673368	2.566682
#1	20.81780	19.76700	4062.666
#2	20.04198	19.43662	4263.066
#3	19.95794	19.76490	4229.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	30.00000	30.00000	
LOW	10.00000	10.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051433-BLK1 OPERATOR:
RUN TIME: 06/03/10 16:51:36
COMMENT: SDG:1005039 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.056459	-11.8831	5.741673	-.101065	392.4033	.6623862	3.612610
SDEV	.509633	17.3036	8.810700	.476730	19.6674	.2146675	2.353387
%RSD	902.6627	145.6147	153.4518	471.7053	5.012034	32.40821	65.14368
#1	-.542005	-23.8094	.4330105	-.478111	381.8150	.6382108	2.546325
#2	-.101626	-19.8029	.8798866	-.259887	380.2986	.4608298	1.981102
#3	.4742547	7.962981	15.91212	.4348027	415.0964	.8881180	H6.310401
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.022296	2.071668	7.885867	-1421.65	21.57227	.7634294	6.075427
SDEV	.193637	.734943	5.929698	28.93	22.17546	.6912389	31.17089
%RSD	868.4682	35.47589	75.19400	2.035197	102.7962	90.54392	513.0650
#1	.0800639	1.873601	6.695248	-1438.66	9.348883	.3613954	-29.6773
#2	-.245631	1.456056	2.641814	-1438.05	8.198254	.3672967	20.35586
#3	.0986781	2.885346	14.32054	-1388.24	47.16967	1.561596	27.54773
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.718759	1.394813	1.444777	5.218543	1.145291	-.435973	2.544338
SDEV	1.728524	1.465860	2.489770	.940647	2.128220	1.099626	2.979613
%RSD	100.5681	105.0936	172.3290	18.02509	185.8236	252.2234	117.1076
#1	.8157972	1.118995	.0062175	4.878156	1.780159	-1.67357	1.202976
#2	.6287183	.0864554	.0083977	4.495473	-1.22812	-.063016	.4711785
#3	3.711761	2.978990	4.319716	6.282000	2.883830	.4286690	5.958858
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.179642	-.982975	2.204896	-4.32526	1.502822	.3704554	.7043520
SDEV	.528940	1.743791	2.320133	2.61366	2.669875	1.631522	1.277574
%RSD	294.4408	177.3993	105.2264	60.42777	177.6574	440.4099	181.3829
#1	.3333943	-.465561	2.898438	-2.99825	-1.01512	1.768751	2.177348
#2	-.723167	-2.92692	-.382915	-2.64132	1.221276	-1.42206	-.102201
#3	-.149154	.4435534	4.099166	-7.33621	4.302313	.7646703	.0379089
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.7057449	.3336110	4120.911
SDEV	.5983677	.4712792	52.889
%RSD	84.78526	141.2661	1.283430
#1	1.026357	.0871349	4168.667
#2	.0153919	.0366809	4129.999
#3	1.075486	.8770171	4064.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051433-BS1 OPERATOR:
RUN TIME: 06/03/10 16:58:44
COMMENT: SDG:1005039 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	994.5234	19186.59	19558.96	515.2974	50170.58	499.2506	4974.842
SDEV	8.3017	141.34	132.00	1.0358	307.74	1.0650	7.468
%RSD	.8347392	.7366809	.6748788	.2010055	.6133852	.2133247	.1501187
#1	987.2289	19309.04	19672.10	514.1028	49815.97	499.9944	4969.852
#2	992.7845	19031.92	19413.94	515.8448	50367.69	499.7269	4971.245
#3	1003.557	19218.82	19590.83	515.9446	50328.08	498.0306	4983.428
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	24000.00	24000.00	600.0000	60000.00	600.0000	6000.000
LOW	800.0000	16000.00	16000.00	400.0000	40000.00	400.0000	4000.000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1002.475	2531.621	9723.357	49611.20	49372.15	1501.966	49537.24
SDEV	7.853	16.997	10.590	435.46	98.38	6.233	128.39
%RSD	.7833316	.6713841	.1089151	.8777426	.1992686	.4150033	.2591761
#1	994.4413	2529.389	9722.863	50107.52	49394.23	1501.390	49682.52
#2	1002.850	2515.851	9734.186	49432.88	49264.61	1496.041	49439.02
#3	1010.133	2549.624	9713.023	49293.21	49457.62	1508.467	49490.18
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	3000.000	12000.00	60000.00	60000.00	1800.000	60000.00
LOW	800.0000	2000.000	8000.000	40000.00	40000.00	1200.000	40000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3969.872	980.3070	5076.045	1925.777	297.2487	468.3628	6041.902
SDEV	13.823	4.3853	57.265	14.576	1.6890	3.0120	41.863
%RSD	.3482002	.4473354	1.128150	.7568789	.5682234	.6430868	.6928700
#1	3975.191	984.2622	5086.886	1916.078	295.9127	467.5087	6089.542
#2	3980.246	981.0676	5014.134	1942.539	296.6863	471.7096	6025.172
#3	3954.179	975.5912	5127.115	1918.715	299.1472	465.8701	6010.992
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4800.000	1200.000	6000.000	2400.000	360.0000	600.0000	7200.000
LOW	3200.000	800.0000	4000.000	1600.000	240.0000	400.0000	4800.000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	967.0331	297.3273	297.2058	468.4318	468.3254	1006.842	995.8344
SDEV	6.0074	2.4383	1.3153	3.8352	2.6020	6.570	4.9761
%RSD	.6212198	.8200895	.4425641	.8187244	.5556022	.6525149	.4996887
#1	973.8997	295.3633	296.1831	467.2374	467.6413	1008.534	1001.168
#2	962.7476	296.5620	296.7446	472.7220	471.2012	1012.400	995.0194
#3	964.4520	300.0565	298.6896	465.3359	466.1338	999.5919	991.3162
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	1200.000					1205.000	1205.000
LOW	800.0000					795.0000	795.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1007.203	1020.476	4161.222
SDEV	1.773	6.220	39.122
%RSD	.1760105	.6095568	.9401666
#1	1008.419	1013.439	4135.733
#2	1008.021	1022.750	4141.667
#3	1005.168	1025.240	4206.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	1205.000	1205.000	
LOW	795.0000	795.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-01 OPERATOR:
RUN TIME: 06/03/10 17:05:51
COMMENT: SDG:1005039 CLIENTID:SDZ-WN22 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.237127	31.20017	10.98189	.4369603	411572.9	9.254060	35.03366
SDEV	.358503	2.34067	.11513	.0566717	6362.5	.592543	.89772
%RSD	151.1858	7.502116	1.048398	12.96954	1.545898	6.403059	2.562450
#1	.1693767	28.90361	10.92308	.4841033	414577.1	9.494203	35.53815
#2	-.508130	31.11431	11.11455	.4526931	415877.0	9.688835	35.56564
#3	-.372629	33.58259	10.90804	.3740844	404264.6	8.579141	33.99718
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4078270	.2569510	508.1009	C.0000000	H1177047.	168.1805	H4029209.
SDEV	.8130372	.3014443	23.4288	.0000000	13853.	.6920	3245.
%RSD	199.3584	117.3159	4.611062	.0000000	1.176964	.4114599	.0805393
#1	.0138041	.0910034	486.7107	C.0000000	H1176983.	168.2688	H4030562.
#2	-.133124	.0749443	504.4518	C.0000000	H1190932.	168.8241	H4031558.
#3	1.342801	.6049054	533.1401	C.0000000	H1163225.	167.4486	H4025506.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.473662	4.054541	.9251138	3.110083	.4100061	.0570354	5.210985
SDEV	1.004179	2.334186	.4656437	.432646	1.410395	1.639454	2.042717
%RSD	68.14173	57.56967	50.33366	13.91107	343.9937	2874.448	39.20021
#1	.7301880	5.983256	1.419633	2.732468	1.185955	.8465885	6.723147
#2	1.074809	1.459703	.8606442	3.015629	1.262049	-1.82780	2.887193
#3	2.615990	4.720663	.4950643	3.582153	-1.21799	1.152314	6.022616
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.830147	-2.60478	1.911076	-10.6186	5.382969	2.284054	-2.10772
SDEV	1.146000	4.49280	.402140	2.9923	2.578707	2.661161	2.39613
%RSD	23.72599	172.4829	21.04260	28.17934	47.90491	116.5104	113.6835
#1	5.588416	.6236305	1.462307	-13.3627	7.936667	4.328287	-2.26186
#2	3.511817	-.702128	2.238763	-11.0650	2.779961	-.724923	-4.42306
#3	5.390208	-7.73585	2.032159	-7.42829	5.432279	3.248799	.3617567
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	11.52379	-22.3339	3111.467
SDEV	1.62776	.2716	.371
%RSD	14.12518	1.215938	.0119309
#1	13.17847	-22.3858	3111.800
#2	11.46853	-22.5757	3111.533
#3	9.924368	-22.0401	3111.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051433-DUP1 OPERATOR:
RUN TIME: 06/03/10 17:12:59
COMMENT: SDG:1005039 CLIENTID:SDZ-WN22D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.124210	60.45908	11.99525	1.525319	407360.3	9.647632	35.23183
SDEV	.256500	19.58783	.05029	.397580	2879.0	.608636	.22779
%RSD	206.5057	32.39849	.4192881	26.06535	.7067469	6.308662	.6465492
#1	.1693767	83.07566	12.00379	1.980009	404295.5	10.13528	35.49215
#2	-.304878	48.92573	12.04072	1.352862	407777.7	8.965530	35.13431
#3	-.237127	49.37584	11.94123	1.243087	410007.9	9.842080	35.06903
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.668683	-1.33293	476.1490	C.0000000	H1151015.	167.8948	H4152018.
SDEV	.857063	.20335	36.2678	.0000000	9181.	2.0802	26778.
%RSD	128.1718	15.25574	7.616911	.0000000	.7976488	1.239018	.6449421
#1	.2165737	-1.56312	505.2322	C.0000000	H1159191.	169.5472	H4181792.
#2	-1.49445	-1.25799	435.5118	C.0000000	H1141082.	165.5588	H4144356.
#3	-.728170	-1.17769	487.7029	C.0000000	H1152772.	168.5785	H4129906.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4320465	-1.69273	2.218987	3.230110	1.357761	-.833620	3.126469
SDEV	.4532489	1.71592	.477871	.236769	1.159359	.405083	1.828633
%RSD	104.9074	101.3701	21.53554	7.330069	85.38754	48.59319	58.48875
#1	.9528726	-3.51909	2.759898	3.503141	.0315675	-1.06254	3.756845
#2	.2162401	-.114208	1.854073	3.105839	1.862679	-1.07241	1.066040
#3	.1270269	-1.44488	2.042991	3.081348	2.179038	-.365906	4.556523
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.334705	2.974400	.5465761	-9.51543	3.496701	4.195670	1.651571
SDEV	1.270658	3.455210	1.752521	3.28259	1.301787	1.481116	1.873658
%RSD	29.31360	116.1649	320.6362	34.49757	37.22902	35.30106	113.4470
#1	3.563691	.5708761	-.241868	-13.1967	4.991257	2.589823	-.497207
#2	3.639136	6.934020	-.673234	-8.45685	2.610227	5.508149	2.507653
#3	5.801288	1.418305	2.554830	-6.89275	2.888618	4.489038	2.944268
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.92473	-22.9232	2978.644
SDEV	1.53561	.1620	68.895
%RSD	14.05627	.7067024	2.312961
#1	9.787837	-23.0747	2901.000
#2	10.31475	-22.7524	3002.467
#3	12.67161	-22.9424	3032.467
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051433-MS1 OPERATOR:
RUN TIME: 06/03/10 17:20:06
COMMENT: SDG:1005039 CLIENTID:SDZ-WN22S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	57.18157	2574.177	1928.749	44.46050	415177.4	53.93144	481.1575
SDEV	.30109	25.204	28.559	.82615	7416.9	.53612	5.6960
%RSD	.5265502	.9791088	1.480709	1.858159	1.786434	.9940711	1.183820
#1	56.94444	2597.481	1957.971	45.40649	423258.0	54.52336	485.6757
#2	57.07994	2547.427	1900.902	43.88097	408680.0	53.47849	474.7590
#3	57.52032	2577.621	1927.375	44.09405	413594.1	53.79246	483.0376
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	185.1233	245.3829	1363.967	C.0000000	H1172093.	652.6671	H4098770.
SDEV	1.8309	1.8363	27.927	.0000000	18484.	7.4384	27234.
%RSD	.9890136	.7483558	2.047483	.0000000	1.576992	1.139689	.6644467
#1	186.8729	244.0179	1387.662	C.0000000	H1189801.	656.5902	H4123325.
#2	183.2207	244.6602	1333.177	C.0000000	H1152921.	644.0884	H4069478.
#3	185.2762	247.4706	1371.063	C.0000000	H1173558.	657.3227	H4103506.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	430.8756	39.26286	490.5045	445.3411	16.11946	10.42706	620.5266
SDEV	5.7277	2.48493	7.4119	5.5438	.91780	1.59218	9.2808
%RSD	1.329324	6.328948	1.511074	1.244844	5.693739	15.26970	1.495634
#1	437.3677	37.12685	495.5941	451.5676	17.01772	9.798465	629.8469
#2	426.5360	38.67166	482.0009	440.9406	15.18329	12.23758	611.2858
#3	428.7230	41.99007	493.9187	443.5152	16.15737	9.245132	620.4469
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	51.47959	16.68591	15.83273	2.711137	14.27530	1064.321	1314.195
SDEV	2.85002	2.27394	.27981	2.182906	3.44262	11.422	14.987
%RSD	5.536221	13.62793	1.767293	80.51627	24.11594	1.073140	1.140424
#1	48.70359	19.05571	15.99627	4.240796	12.56916	1077.385	1329.918
#2	51.33690	14.52179	15.50964	.2113185	18.23779	1056.222	1300.072
#3	54.39828	16.48022	15.99227	3.681295	12.01896	1059.356	1312.595
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1009.751	979.5218	3087.200
SDEV	18.467	16.4114	29.281
%RSD	1.828873	1.675447	.9484741
#1	1029.669	994.1538	3054.066
#2	993.1976	961.7769	3109.600
#3	1006.387	982.6346	3097.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051433-MSD1 OPERATOR:
RUN TIME: 06/03/10 17:27:14
COMMENT: SDG:1005039 CLIENTID:SDZ-WN22SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	56.01852	2614.448	1942.567	43.66436	402292.4	51.91677	475.8680
SDEV	.45110	40.329	19.842	.94625	7004.0	1.41270	12.7295
%RSD	.8052780	1.542550	1.021419	2.167092	1.741024	2.721088	2.675016
#1	56.13143	2625.308	1957.777	44.70918	410283.9	53.14049	488.4002
#2	56.40243	2569.801	1920.123	42.86509	399372.8	50.37077	462.9499
#3	55.52168	2648.235	1949.800	43.41882	397220.5	52.23904	476.2539
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	185.2533	241.2770	1360.037	C.0000000	H1145467.	651.2576	H4087416.
SDEV	5.3620	.6893	18.115	.0000000	30839.	15.9775	30061.
%RSD	2.894399	.2856935	1.331955	.0000000	2.692282	2.453336	.7354498
#1	190.6783	241.8177	1373.609	C.0000000	H1179705.	667.6481	H4107916.
#2	179.9567	240.5008	1339.467	C.0000000	H1119870.	635.7278	H4052908.
#3	185.1249	241.5126	1367.035	C.0000000	H1136826.	650.3970	H4101424.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	423.5744	41.39313	495.0355	422.7881	15.92621	11.82334	618.8066
SDEV	8.8953	1.03426	12.7380	12.3098	2.25778	1.67093	2.3625
%RSD	2.100062	2.498624	2.573155	2.911586	14.17650	14.13248	.3817769
#1	433.7518	40.21706	509.3704	436.8671	16.80081	13.61916	620.6790
#2	417.2848	41.80134	485.0148	414.0550	17.61585	11.53638	616.1523
#3	419.6865	42.16099	490.7213	417.4422	13.36197	10.31447	619.5887
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	50.35102	16.38093	15.69385	3.541174	15.95420	1053.541	1312.328
SDEV	3.21827	2.98789	2.85674	4.180558	.43145	19.426	18.372
%RSD	6.391676	18.24006	18.20291	118.0557	2.704274	1.843839	1.399974
#1	51.79840	19.73506	15.33186	8.111710	16.36474	1075.168	1320.857
#2	46.66319	15.40376	18.71433	2.601161	15.99334	1037.575	1291.241
#3	52.59146	14.00398	13.03536	-.089349	15.50452	1047.879	1324.885
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	995.7855	981.0377	3031.400
SDEV	14.4034	8.2063	45.107
%RSD	1.446432	.8364938	1.487982
#1	1012.369	990.0067	3019.933
#2	986.4004	973.9053	3081.133
#3	988.5870	979.2010	2993.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005039-01 OPERATOR:
RUN TIME: 06/03/10 17:37:26
COMMENT: SDG:1005039 CLIENTID:SDZ-WN22L 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.180668	22.94607	2.253069	1.137762	82177.46	1.822457	7.623000
SDEV	.217788	6.14392	.044492	.230578	937.16	.076815	.345429
%RSD	120.5456	26.77546	1.974738	20.26596	1.140415	4.214932	4.531399
#1	.0677507	25.07435	2.301957	1.173548	83042.91	1.839978	7.876759
#2	-.271003	27.74286	2.242300	1.348356	81182.13	1.888998	7.229614
#3	-.338753	16.02100	2.214950	.8913834	82307.33	1.738394	7.762628
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.35860	.2783641	L-200.082	H123613.7	257781.5	34.02191	H1614411.
SDEV	.46405	.2764524	1.349	1155.2	1793.3	.17823	6762.
%RSD	34.15610	99.31323	.6740255	.9345400	.6956776	.5238730	.4188606
#1	-.827108	.1873607	L-201.256	H124828.0	259423.1	34.13162	H1621886.
#2	-1.56542	.0588852	L-198.609	H123484.7	258054.0	33.81626	H1608720.
#3	-1.68329	.5888463	L-200.380	H122528.4	255867.6	34.11784	H1612627.
ERRORS	LC PASS	LC PASS	LC LOW	LC HIGH	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5892351	.0061803	.2072467	2.995456	.9362708	-.753796	.8703995
SDEV	.8673375	2.971258	.1824755	.370153	1.445210	2.678003	1.824273
%RSD	147.1972	48076.23	88.04748	12.35715	154.3582	355.2690	209.5903
#1	-.321793	-.838432	.3186925	3.093605	2.604837	1.530811	2.893654
#2	1.405020	3.308304	-.003338	3.306643	.0785916	-3.70085	-.648972
#3	.6844784	-2.45133	.3063856	2.586120	.1253834	-.091346	.3665170
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0589083	-.584371	1.692185	-2.88331	.3061003	1.824180	-.326170
SDEV	1.381622	.833417	1.977775	4.83712	2.407243	1.989477	1.129049
%RSD	2345.377	142.6177	116.8770	167.7624	786.4229	109.0614	346.1534
#1	1.278338	-.087316	3.945604	-1.52659	3.053928	1.639408	.4625689
#2	-1.44166	-1.54654	.8866762	-8.25392	-1.43099	3.899598	-1.61952
#3	.3400480	-.119257	.2442747	1.130570	-.704634	-.066465	.1784431
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.656824	-3.86807	3702.533
SDEV	.489830	.08780	26.732
%RSD	18.43666	2.269773	.7220018
#1	2.154547	-3.92459	3674.400
#2	3.133177	-3.76693	3705.600
#3	2.682748	-3.91271	3727.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051433-PS1 OPERATOR:
RUN TIME: 06/03/10 17:44:33
COMMENT: SDG:1005039 CLIENTID:SDZ-WN22A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.028455	37.81634	11.36713	4.437063	411951.4	12.23440	71.58411
SDEV	.244278	4.02252	.12200	.130223	7392.7	.40842	1.41526
%RSD	3.042659	10.63699	1.073263	2.934894	1.794559	3.338277	1.977059
#1	7.825203	41.10975	11.24631	4.548553	404188.2	12.00352	70.72041
#2	7.960704	33.33313	11.36480	4.293936	418907.3	12.70596	73.21742
#3	8.299458	39.00614	11.49028	4.468700	412758.7	11.99371	70.81452
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.081728	19.20174	488.6198	C.0000000	H1164560.	180.4371	H4088446.
SDEV	.845630	.08941	37.8643	.0000000	15940.	1.1079	15582.
%RSD	10.46348	.4656594	7.749234	.0000000	1.368718	.6139847	.3811139
#1	7.247728	19.18568	445.2540	C.0000000	H1146473.	179.2474	H4071036.
#2	8.938527	19.29809	505.4803	C.0000000	H1176554.	181.4392	H4093220.
#3	8.058929	19.12144	515.1253	C.0000000	H1170653.	180.6246	H4101082.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	27.89913	17.31447	42.26441	46.03825	6.820664	34.71198	68.52542
SDEV	.84375	1.24793	.40449	.89410	.951820	2.03608	.99427
%RSD	3.024270	7.207438	.9570385	1.942079	13.95495	5.865637	1.450944
#1	27.04068	17.50439	42.03293	45.00977	5.878258	35.02773	69.00691
#2	28.72736	18.45655	42.02884	46.63049	6.802105	36.57174	69.18728
#3	27.92936	15.98246	42.73146	46.47449	7.781628	32.53648	67.38207
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.89218	6.331311	7.060492	23.56399	40.27380	3.198814	-.698439
SDEV	1.23593	3.649527	1.242359	5.84620	1.76553	1.385420	2.065565
%RSD	10.39283	57.64251	17.59593	24.80989	4.383815	43.31043	295.7404
#1	13.16985	5.156512	6.234125	28.08281	38.49102	2.551456	-2.11842
#2	11.80401	3.413867	8.489202	25.64778	42.02155	4.789413	-1.64805
#3	10.70270	10.42355	6.458148	16.96140	40.30885	2.255574	1.671159
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	11.37624	-22.0611	3047.689
SDEV	.54562	.2787	10.238
%RSD	4.796119	1.263313	.3359404
#1	11.33154	-21.7420	3058.400
#2	10.85434	-22.2572	3046.666
#3	11.94283	-22.1840	3038.000
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: IBL OPERATOR:
RUN TIME: 06/03/10 17:51:40
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0225836	-14.3943	-.022234	.4379252	373.7754	-.442351	-.779132
SDEV	.0195579	1.4084	.055859	.1947920	6.2725	.113783	.737687
%RSD	86.60257	9.784592	251.2338	44.48065	1.678138	25.72232	94.68059
#1	.0338753	-12.7909	.0420247	.6562051	369.2407	-.542726	-1.63071
#2	-.000000	-14.9606	-.059196	.3757889	371.1520	-.465581	-.370266
#3	.0338753	-15.4314	-.049530	.2817817	380.9337	-.318745	-.336415
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.578232	2.312560	-12.0666	L-1429.35	18.23013	.2416800	204.6750
SDEV	.412420	.254091	6.1617	5.80	21.21612	.1267334	148.8143
%RSD	71.32426	10.98746	51.06398	.4061040	116.3794	52.43854	72.70760
#1	-1.03583	2.532039	-12.0782	L-1434.33	6.193070	.1699633	67.61874
#2	-.463648	2.371444	-5.89916	L-1430.74	5.770147	.3880096	183.4403
#3	-.235221	2.034196	-18.2226	L-1422.98	42.72718	.1670670	362.9661
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2632081	.7644340	.3087007	2.366396	1.468331	-.745924	-.854089
SDEV	.7102586	1.516649	.2933996	.546404	.544486	.786765	2.541741
%RSD	269.8468	198.4016	95.04339	23.09014	37.08200	105.4752	297.5966
#1	-.357437	2.352025	.3092343	1.786749	1.710716	-1.42446	-3.78875
#2	.1092393	.6108666	.6018330	2.440431	1.849536	-.929805	.5777004
#3	1.037822	-.669589	.0150346	2.872008	.8447417	.1164968	.6487835
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.46913	.3983478	1.999501	-.777205	-.733326	.1393298	-1.28970
SDEV	1.26018	2.605306	.574223	1.709339	2.018427	2.236390	1.21914
%RSD	85.77731	654.0281	28.71832	219.9341	275.2427	1605.105	94.52895
#1	-1.33206	2.327575	1.399723	.3389082	-2.30785	2.698171	-.413344
#2	-.283090	1.432780	2.054582	.0745461	-1.43425	-.838945	-.773783
#3	-2.79225	-2.56531	2.544199	-2.74507	1.542122	-1.44124	-2.68198
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.7962984	-.241776	4000.044
SDEV	.5974681	.123995	9.287
%RSD	75.03067	51.28507	.2321767
#1	.1794740	-.314349	3991.133
#2	1.372318	-.312376	3999.333
#3	.8371032	-.098604	4009.666
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/03/10 17:58:49
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	98.85952	47073.49	972.7557	983.4314	47815.79	964.0749	969.9743
SDEV	.69120	583.84	4.0062	10.9634	537.99	10.6451	21.3218
%RSD	.6991779	1.240270	.4118401	1.114810	1.125138	1.104178	2.198185
#1	99.01761	46979.15	972.0821	980.1741	47630.82	954.1993	961.6558
#2	98.10297	47698.75	977.0560	995.6543	48421.86	975.3509	994.2015
#3	99.45798	46542.56	969.1290	974.4658	47394.68	962.6746	954.0656
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	959.1384	995.9797	23762.48	51065.94	49151.97	976.9462	49734.26
SDEV	20.9552	1.7316	426.68	734.99	874.30	22.5481	259.76
%RSD	2.184798	.1738629	1.795594	1.439290	1.778763	2.308015	.5223000
#1	952.5331	997.1735	23542.71	50825.07	48705.74	969.2302	49777.59
#2	982.6004	993.9937	24254.24	51891.14	50159.34	1002.339	49969.63
#3	942.2817	996.7720	23490.49	50481.62	48590.84	959.2692	49455.56
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	977.2496	995.9440	970.3754	1013.638	972.5947	997.7898	1011.714
SDEV	7.7269	6.1739	19.9751	18.303	13.6468	10.8663	5.639
%RSD	.7906761	.6199083	2.058492	1.805644	1.403138	1.089040	.5573307
#1	972.8002	988.8601	961.0909	1004.552	963.9376	993.1541	1006.770
#2	986.1718	998.7924	993.3029	1034.705	988.3262	1010.205	1017.855
#3	972.7768	1000.179	956.7322	1001.655	965.5203	990.0101	1010.518
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	992.6238	965.9574	975.9046	1000.579	996.3944	1002.208	997.9123
SDEV	9.7468	17.1144	12.3928	7.276	13.5662	13.257	12.5782
%RSD	.9819270	1.771758	1.269880	.7271853	1.361525	1.322790	1.260447
#1	985.0374	951.2457	970.2698	1002.794	988.3384	994.8851	987.1093
#2	1003.617	984.7403	990.1136	1006.490	1012.057	1017.512	1011.721
#3	989.2172	961.8862	967.3304	992.4529	988.7877	994.2284	994.9067
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	989.2635	997.1488	4153.844
SDEV	9.2080	.7630	50.805
%RSD	.9307957	.0765175	1.223089
#1	980.3340	997.9390	4176.400
#2	998.7268	996.4163	4095.666
#3	988.7297	997.0911	4189.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/03/10 18:05:58
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.282294	28.98943	.1916032	.7707947	397.1487	.0543969	.0883208
SDEV	.173835	10.65736	.0420629	.3912970	1.4650	.2275776	.5814902
%RSD	61.57922	36.76293	21.95311	50.76540	.3688905	418.3648	658.3845
#1	-.237127	21.30672	.1648483	.4414234	397.9772	.2189774	.7206647
#2	-.135501	24.50544	.1698748	.6676198	398.0118	.1495230	-.032309
#3	-.474255	41.15612	.2400864	1.203341	395.4572	-.205310	-.423393
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7245670	.3318953	22.38015	-1429.33	36.55021	.5026590	-22.1392
SDEV	.8535563	.2050330	16.89578	1.88	4.81499	.0972121	46.3323
%RSD	117.8023	61.77640	75.49451	.1316038	13.17362	19.33957	209.2767
#1	.1085522	.1070634	14.80162	-1430.88	34.03549	.4967849	-55.0702
#2	1.698872	.5085490	41.73835	-1429.89	42.10190	.6026749	-42.1888
#3	.3662766	.3800735	10.60046	-1427.24	33.51324	.4085171	30.84124
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.223719	3.095376	.1325499	1.499777	1.430964	-.856661	2.795024
SDEV	.960364	.271370	.2194945	.622028	1.548606	1.191573	2.309609
%RSD	78.47917	8.766949	165.5938	41.47465	108.2211	139.0951	82.63290
#1	.3105479	3.136891	.3176270	1.129981	.3387171	-1.73954	3.530805
#2	2.225179	3.343597	-.109948	2.217926	Q3.203231	.4986943	4.647103
#3	1.135429	2.805641	.1899704	1.151425	.7509450	-1.32914	.2071638
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.503719	-5.33841	4.807531	-4.99138	1.204551	-1.47246	-1.36183
SDEV	1.871083	3.25568	3.866984	2.64506	2.996894	.89144	.64730
%RSD	371.4536	60.98592	80.43596	52.99263	248.7977	60.54121	47.53183
#1	-1.92103	-4.42035	2.711662	-2.10567	-1.55977	-.629049	-1.84880
#2	1.617160	-8.95456	9.270002	-7.30076	4.389564	-1.38312	-1.60943
#3	-1.20729	-2.64034	2.440929	-5.56771	.7838529	-2.40521	-.627278
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.753434	.4788886	3962.755
SDEV	.208091	.2856837	77.348
%RSD	11.86762	59.65557	1.951869
#1	1.638155	.3369444	3999.666
#2	1.628494	.8077446	4014.733
#3	1.993651	.2919769	3873.867
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-02 OPERATOR:
RUN TIME: 06/03/10 18:14:04
COMMENT: SDG:1005039 CLIENTID:SDZ-WN10 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.033875	7906.193	19.14062	1.553378	383324.1	9.105032	32.15961
SDEV	.264575	217.544	.67894	.343715	11074.6	.087168	2.16811
%RSD	781.0248	2.751563	3.547120	22.12691	2.889107	.9573625	6.741715
#1	.1355013	8023.169	19.51435	1.799291	389344.0	9.036632	33.46980
#2	.1016260	8040.222	19.55059	1.700207	390084.9	9.203180	33.35200
#3	-.338753	7655.188	18.35693	1.160635	370543.4	9.075283	29.65701
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.91282	1.750479	6961.538	C.0000000	H1055999.	40.25211	H4010311.
SDEV	.39553	.091318	207.461	.0000000	28581.	1.30295	65905.
%RSD	1.986319	5.216731	2.980101	.0000000	2.706524	3.236981	1.643379
#1	20.20214	1.777245	7070.067	C.0000000	H1072079.	40.85706	H4050907.
#2	20.07420	1.825423	7092.223	C.0000000	H1072917.	41.14262	H4045758.
#3	19.46211	1.648769	6722.325	C.0000000	H1023000.	38.75665	H3934269.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.828610	4.998089	21.66483	18.00330	5.827455	-.987079	4.658155
SDEV	.219832	.769559	1.02619	1.17382	2.431173	1.332597	3.101192
%RSD	2.236652	15.39706	4.736641	6.520023	41.71930	135.0041	66.57554
#1	9.574952	5.827510	22.21859	18.87443	6.549834	.5512867	2.306983
#2	9.963753	4.307215	22.29518	18.46701	7.815569	-1.78606	8.172839
#3	9.947126	4.859543	20.48072	16.66846	3.116961	-1.72647	3.494641
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.579154	6.726123	5.374262	-6.26626	1.644523	3.495231	.7424821
SDEV	2.866166	4.163391	1.860144	2.35990	2.518375	.810673	1.168374
%RSD	37.81643	61.89883	34.61209	37.66050	153.1371	23.19368	157.3605
#1	8.127941	6.215664	6.712060	-6.76365	4.199176	2.699365	-.194472
#2	10.13125	11.12121	6.160649	-3.69730	-.835935	3.466388	2.051605
#3	4.478273	2.841497	3.250077	-8.33782	1.570327	4.319941	.3703131
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	12.73965	88.47334	3013.755
SDEV	.67087	2.96983	71.179
%RSD	5.265985	3.356757	2.361806
#1	12.08047	90.62395	2963.867
#2	12.71685	89.71127	2982.133
#3	13.42163	85.08479	3095.266
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-03 OPERATOR:
RUN TIME: 06/03/10 18:21:11
COMMENT: SDG:1005039 CLIENTID:SDZ-SW06 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.191960	632.4941	19.70123	.4243355	41711.62	.4629739	2.405142
SDEV	.167103	8.1365	.08596	.0426618	239.07	.0714567	.279781
%RSD	87.05087	1.286420	.4363222	10.05380	.5731517	15.43428	11.63260
#1	-.271003	632.3491	19.75872	.4727326	41718.96	.4350681	2.082209
#2	-.304878	640.7023	19.60241	.3921795	41946.93	.5441726	2.574540
#3	-.000000	624.4312	19.74257	.4080944	41468.96	.4096808	2.558677
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.659711	1.075983	976.1495	32537.65	72020.27	10.27535	603063.2
SDEV	.579132	.130797	13.6591	202.36	347.13	.16996	2464.0
%RSD	34.89353	12.15602	1.399285	.6219245	.4819879	1.654035	.4085750
#1	2.203374	1.134867	971.5009	32408.39	71996.38	10.21538	602004.8
#2	1.050661	.9260947	991.5261	32770.86	72378.73	10.46716	605879.6
#3	1.725097	1.166987	965.4214	32433.71	71685.70	10.14350	601305.3
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.052614	-.225128	2.181786	4.902722	3.523904	-.683823	6.302921
SDEV	.533527	.706177	.156586	.235923	.340732	.220222	1.498363
%RSD	50.68593	313.6780	7.176952	4.812080	9.669151	32.20448	23.77252
#1	1.658324	-.082765	2.085972	5.129279	3.335074	-.443763	7.978023
#2	.6523526	.3990217	2.096900	4.920453	3.319395	-.731219	5.840358
#3	.8471659	-.991641	2.362485	4.658433	3.917243	-.876488	5.090382
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1781159	6.976183	1.797294	-10.3174	4.122678	1.439643	-1.65330
SDEV	1.469497	2.140936	1.153304	1.3577	.883992	1.263976	.59834
%RSD	825.0231	30.68922	64.16891	13.15972	21.44218	87.79787	36.19053
#1	1.192761	4.732588	2.634304	-10.5668	4.607100	1.812729	-1.36934
#2	-1.50704	8.997046	.4817547	-11.5331	4.658568	2.475083	-2.34075
#3	.8486278	7.198917	2.275824	-8.85223	3.102365	.0311180	-1.24982
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.357402	7.682090	3951.867
SDEV	.681910	.054144	19.360
%RSD	50.23644	.7048039	.4898922
#1	2.076481	7.730531	3947.200
#2	1.275703	7.692099	3935.266
#3	.7200215	7.623640	3973.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-04 OPERATOR:
RUN TIME: 06/03/10 18:28:19
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.124210	3.325811	-.033174	.7444987	406.4600	-.735436	-1.61338
SDEV	.108894	1.185576	.101813	.1080141	1.1915	.281112	.47179
%RSD	87.66955	35.64772	306.9054	14.50830	.2931435	38.22391	29.24214
#1	-.000000	1.957848	-.150305	.6232142	407.1148	-.412437	-1.17935
#2	-.203252	3.963975	.0166597	.8303323	407.1805	-.869040	-1.54528
#3	-.169377	4.055608	.0341227	.7799495	405.0847	-.924830	-2.11552
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4346326	.5941997	17.08939	L-1427.16	14.19855	.4772723	179.7200
SDEV	.7783208	.0981250	13.92429	6.32	1.32721	.0691902	55.1239
%RSD	179.0756	16.51381	81.47917	.4427459	9.347531	14.49701	30.67211
#1	.8136821	.5727872	19.12670	L-1434.46	15.59825	.3974192	140.8498
#2	.9508163	.7012627	29.88278	L-1423.68	14.03918	.5194113	242.8069
#3	-.460601	.5085490	2.258673	L-1423.35	12.95821	.5149865	155.5035
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4894183	-.530843	.1859646	3.305386	1.841551	-2.16649	3.739902
SDEV	.3828078	.879083	.2626691	.275518	1.069537	.76730	.948563
%RSD	78.21690	165.6012	141.2468	8.335416	58.07805	35.41688	25.36331
#1	.9154344	-1.19479	.3307102	3.136154	2.453689	-2.99367	2.662231
#2	.1743096	-.863828	.3444198	3.623305	2.464393	-1.47797	4.448268
#3	.3785110	.4660872	-.117236	3.156698	.6065716	-2.02782	4.109207
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.05723	2.216944	1.651039	-10.5569	2.019343	1.170374	-2.57862
SDEV	1.43900	.115856	1.643495	.2686	1.122474	1.863233	2.30730
%RSD	136.1107	5.225925	99.54304	2.544348	55.58609	159.1998	89.47839
#1	.0040144	2.086750	2.633819	-10.7405	.8708547	-.318723	-5.12646
#2	-.480580	2.255404	2.565596	-10.6816	3.113855	3.259757	-.630141
#3	-2.69512	2.308680	-.246296	-10.2486	2.073320	.5700881	-1.97925
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.7440908	-.063764	3912.377
SDEV	.3609689	.085492	27.807
%RSD	48.51141	134.0758	.7107455
#1	.8666654	.0331918	3941.933
#2	1.027811	-.096162	3886.733
#3	.3377960	-.128320	3908.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-05 OPERATOR:
RUN TIME: 06/03/10 18:38:06
COMMENT: SDG:1005039 CLIENTID:FB050810-SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1355013	-15.7816	.0023918	.0765387	401.2747	-.160562	-.061993
SDEV	.2115514	7.3865	.0450586	.1171797	.8606	.054113	.443059
%RSD	156.1250	46.80493	1883.903	153.0986	.2144552	33.70201	714.6912
#1	-.101626	-15.0798	-.049584	-.030886	401.1350	-.168092	.3127140
#2	.3048780	-23.4939	.0304278	.0590043	400.4925	-.210515	-.551004
#3	.2032520	-8.77093	.0263312	.2014975	402.1966	-.103079	.0523106
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1246169	.6905560	11.49322	L-1422.75	12.49930	.4745096	260.2938
SDEV	.1706777	.1365842	6.46309	2.86	3.74940	.1063225	12.5818
%RSD	136.9619	19.77888	56.23394	.2009158	29.99692	22.40681	4.833684
#1	-.021334	.8297383	18.85585	L-1424.83	11.76024	.3707567	246.7816
#2	.0828992	.6852027	8.867940	L-1423.92	9.174455	.4695445	262.4275
#3	.3122858	.5567272	6.755857	L-1419.49	16.56320	.5832276	271.6723
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3459550	.1562857	.2944910	3.159973	1.913009	-1.44931	3.035466
SDEV	.7311371	3.348196	.1359932	.114864	1.025418	2.25670	1.252195
%RSD	211.3388	2142.356	46.17906	3.634982	53.60234	155.7089	41.25215
#1	.5644445	-3.64469	.1577047	3.028296	2.340907	.9778459	2.954433
#2	.9429384	1.444506	.4296770	3.212036	.7429436	-1.84167	4.326210
#3	-.469518	2.669038	.2960914	3.239586	2.655177	-3.48410	1.825756
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.555445	2.669674	1.532314	-7.84964	1.743128	1.073674	-1.48620
SDEV	.508458	.653968	1.497330	2.88376	1.946193	1.905564	1.21820
%RSD	91.54063	24.49616	97.71687	36.73750	111.6495	177.4807	81.96757
#1	-.462542	3.417358	1.800547	-4.80596	3.862471	.8754555	-1.37410
#2	-.099844	2.387482	-.081003	-8.20182	1.330726	-.725033	-2.75657
#3	-1.10395	2.204181	2.877398	-10.5411	.0361880	3.070599	-.327922
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.5319182	-.068471	4122.466
SDEV	.1216763	.122106	24.041
%RSD	22.87500	178.3316	.5831791
#1	.5376846	-.208496	4107.533
#2	.6506087	.0158515	4150.200
#3	.4074612	-.012770	4109.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-06 OPERATOR:
RUN TIME: 06/03/10 18:46:28
COMMENT: SDG:1005039 CLIENTID:EB050810-SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.169377	-18.7441	-.065179	-.092924	401.5123	-.261470	-.244885
SDEV	.295318	3.3049	.017013	.169196	1.3742	.485654	.328469
%RSD	174.3560	17.63175	26.10162	182.0807	.3422550	185.7398	134.1322
#1	.1693767	-22.5297	-.058914	-.285121	403.0022	.2730470	.0730716
#2	-.304878	-16.4341	-.084436	-.027199	400.2945	-.381833	-.224782
#3	-.372629	-17.2684	-.052187	.0335490	401.2403	-.675624	-.582943
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4586782	1.456056	18.15671	L-1427.39	10.47177	.3364060	220.3435
SDEV	.7102801	.089415	10.10297	1.33	2.79159	.0607507	44.8826
%RSD	154.8537	6.140915	55.64317	.0930448	26.65827	18.05875	20.36939
#1	.9656715	1.359699	28.83834	L-1425.88	13.68288	.3646869	169.4775
#2	.7634970	1.472116	16.87755	L-1427.94	9.110280	.2666707	254.3752
#3	-.353134	1.536353	8.754240	L-1428.36	8.622145	.3778606	237.1779
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7776524	1.007911	.1107035	3.247370	2.181347	-.526736	3.078161
SDEV	.4798224	2.521372	.2163426	.028164	.989511	.448776	1.688868
%RSD	61.70140	250.1582	195.4252	.8672724	45.36240	85.19930	54.86613
#1	1.264317	-1.80461	.2974376	3.216256	2.954904	-.212747	3.294789
#2	.3049779	3.065806	.1610442	3.254734	2.522814	-.326719	4.648262
#3	.7636625	1.762532	-.126371	3.271120	1.066324	-1.04074	1.291431
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5249774	.4247552	3.055380	-7.12418	2.764093	.1088526	-.788184
SDEV	.7846072	2.118399	1.631972	2.40818	1.840799	2.155282	.736303
%RSD	149.4554	498.7339	53.41306	33.80290	66.59685	1980.000	93.41758
#1	.8430027	-.989416	4.921194	-9.53730	4.439626	-1.51379	-1.02948
#2	1.100644	2.860338	2.351351	-7.11427	3.059014	-.713996	-1.37356
#3	-.368714	-.596656	1.893595	-4.72097	.7936384	2.554345	.0384900
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.2797863	.0236368	4098.622
SDEV	.7782706	.0677463	42.926
%RSD	278.1661	286.6133	1.047336
#1	.2681042	.0606473	4145.800
#2	1.063832	.0648160	4088.200
#3	-.492578	-.054553	4061.867
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-07 OPERATOR:
RUN TIME: 06/03/10 18:53:36
COMMENT: SDG:1005039 CLIENTID:SDZ-WN18 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0903342	118.5651	12.29302	1.519582	431287.7	8.722732	32.49593
SDEV	.0391159	1.7642	.11503	.030911	7260.3	.282985	.68086
%RSD	43.30128	1.487950	.9357187	2.034163	1.683399	3.244222	2.095212
#1	.0677507	118.9872	12.40279	1.535558	439031.7	9.041117	33.27599
#2	.1355013	120.0800	12.30288	1.539235	430196.6	8.499868	32.19076
#3	.0677507	116.6282	12.17337	1.483952	424634.6	8.627213	32.02104
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9513206	-.524608	1953.939	C.0000000	H1080263.	28.90249	H3997317.
SDEV	1.645059	.230683	42.072	.0000000	12303.	.12068	20279.
%RSD	172.9237	43.97237	2.153210	.0000000	1.138866	.4175420	.5073128
#1	1.438651	-.615611	1984.519	C.0000000	H1093852.	29.04001	H4015775.
#2	-.882345	-.695909	1905.957	C.0000000	H1077056.	28.85321	H4000566.
#3	2.297656	-.262304	1971.340	C.0000000	H1069881.	28.81424	H3975610.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.515980	-2.71829	2.501323	9.445836	.9395363	-.499397	7.162024
SDEV	.535814	2.78820	.885117	.826787	1.322753	.368630	3.764017
%RSD	35.34437	102.5719	35.38593	8.752926	140.7878	73.81512	52.55521
#1	1.655674	-5.28257	3.517411	9.353703	2.404593	-.282346	5.541555
#2	.9241557	.2497903	2.088702	8.668974	.5810139	-.290818	4.479639
#3	1.968110	-3.12208	1.897857	10.31483	-.166998	-.925026	11.46488
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.816558	1.869846	.4710351	-11.1987	4.838176	4.113805	1.597605
SDEV	5.668801	.600064	1.727321	3.3123	1.338449	1.482614	2.858153
%RSD	201.2670	32.09164	366.7075	29.57803	27.66433	36.03996	178.9023
#1	-3.08012	2.355772	2.424879	-7.46362	3.298821	2.416392	2.714830
#2	3.303748	2.054649	-.158744	-12.3530	5.727165	5.155478	-1.65041
#3	8.226041	1.199116	-.853030	-13.7794	5.488543	4.769546	3.728396
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	14.52155	-20.5866	3002.222
SDEV	2.72748	.7997	33.540
%RSD	18.78228	3.884795	1.117163
#1	15.83574	-21.2658	2969.066
#2	11.38578	-20.7889	3001.467
#3	16.34312	-19.7052	3036.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-08 OPERATOR:
RUN TIME: 06/03/10 19:00:44
COMMENT: SDG:1005039 CLIENTID:SDZ-WN19 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.056459	146.8863	16.31490	.8801500	480567.2	9.957747	36.54194
SDEV	.085251	9.9715	.25683	.3525614	6919.0	.563815	1.10900
%RSD	150.9967	6.788560	1.574182	40.05697	1.439753	5.662073	3.034858
#1	-.135501	158.3031	16.53840	1.287022	488186.4	9.889784	37.57617
#2	.0338753	139.8845	16.37196	.6885969	474676.0	9.430995	35.37088
#3	-.067751	142.4713	16.03434	.6648315	478839.1	10.55246	36.67878
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.313790	-1.90572	656.1028	C.0000000	H1227006.	-14.0700	H4228064.
SDEV	.693242	.15432	20.9402	.0000000	29295.	.3142	16102.
%RSD	220.9252	8.097487	3.191607	.0000000	2.387512	2.233156	.3808396
#1	.3561668	-2.04490	679.8809	C.0000000	H1258888.	-14.3506	H4244955.
#2	-1.02818	-1.93249	648.0147	C.0000000	H1201275.	-13.7305	H4212888.
#3	-.269358	-1.73977	640.4129	C.0000000	H1220856.	-14.1289	H4226349.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6995356	.3568229	2.759158	2.126819	.7029159	1.349924	5.067811
SDEV	.7673113	2.766760	.367558	.876389	.6065236	1.565968	3.442082
%RSD	109.6887	775.3875	13.32138	41.20654	86.28680	116.0042	67.92049
#1	1.572501	-2.32234	2.353166	1.957720	.0961135	.2795192	9.024193
#2	.3942615	3.203562	2.855026	3.075436	.7034736	.6230120	2.760668
#3	.1318447	.1892478	3.069283	1.347302	1.309160	3.147239	3.418573
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.162794	1.445676	.3278827	-5.81024	4.920597	5.171443	-.853276
SDEV	.583454	1.033432	1.320990	3.91604	2.915460	2.739393	.826312
%RSD	358.4013	71.48438	402.8850	67.39899	59.25014	52.97153	96.83989
#1	.4982318	1.734453	-.726439	-9.68290	5.249160	2.120365	-1.32831
#2	-.380598	2.304003	-.099587	-1.85221	1.854773	5.974167	-1.33239
#3	-.606014	.2985719	1.809674	-5.89560	7.657856	7.419798	.1008635
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.587950	-23.3367	3007.489
SDEV	1.569801	.4560	39.157
%RSD	98.85707	1.954038	1.301981
#1	.0163030	-23.8221	2963.867
#2	3.155898	-22.9173	3039.600
#3	1.591649	-23.2706	3019.000
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-09 OPERATOR:
RUN TIME: 06/03/10 19:07:52
COMMENT: SDG:1005039 CLIENTID:SDZ-WN19D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.338753	349.7798	16.75871	1.317382	461791.1	9.750163	36.00779
SDEV	.358503	8.6473	.07496	.202526	7785.7	.446121	.60934
%RSD	105.8300	2.472217	.4473074	15.37335	1.685968	4.575526	1.692253
#1	-.609756	340.1764	16.75135	1.096615	467577.1	10.20701	36.30526
#2	.0677507	356.9494	16.68770	1.494571	464857.0	9.315598	36.41126
#3	-.474255	352.2137	16.83708	1.360959	452939.2	9.727887	35.30685
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9524415	-.845797	814.4332	C.0000000	H1172100.	-11.4833	H4267380.
SDEV	1.069542	.203349	49.5336	.0000000	20781.	.2415	17301.
%RSD	112.2948	24.04232	6.081973	.0000000	1.773006	2.102657	.4054343
#1	1.775447	-.615611	858.7781	C.0000000	H1178723.	-11.3885	H4247453.
#2	1.338383	-.920742	823.5454	C.0000000	H1188763.	-11.7578	H4278586.
#3	-.256505	-1.00104	760.9762	C.0000000	H1148815.	-11.3037	H4276100.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8282169	-2.97673	2.641924	1.078746	.7016263	-1.15352	5.103829
SDEV	.8529102	4.60777	.382440	.798365	.5554374	.25311	1.406712
%RSD	102.9815	154.7931	14.47581	74.00861	79.16428	21.94251	27.56189
#1	1.219994	-7.63594	2.632795	1.674544	1.262547	-1.10007	4.013875
#2	-.150192	-2.87206	2.264131	1.390072	.6904929	-.931412	6.691801
#3	1.414849	1.577818	3.028847	.1716219	.1518394	-1.42910	4.605812
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.67477	2.878992	-.389600	-11.5954	4.055430	5.695931	-1.61292
SDEV	3.42923	2.699817	1.918787	1.3305	1.024615	1.877814	2.19569
%RSD	204.7586	93.77646	492.5017	11.47465	25.26526	32.96765	136.1314
#1	1.306629	2.745636	.5179747	-12.4410	4.557756	4.316682	.8018676
#2	-.908681	.2483249	.9070340	-12.2836	4.731945	7.834501	-3.48939
#3	L-5.42225	5.643016	-2.59381	-10.0618	2.876589	4.936611	-2.15124
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.357918	-20.1127	2908.622
SDEV	.554570	.1413	24.841
%RSD	23.51946	.7026820	.8540312
#1	2.209355	-19.9498	2933.800
#2	1.892761	-20.2021	2884.133
#3	2.971639	-20.1862	2907.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: IBL OPERATOR:
RUN TIME: 06/03/10 19:14:59
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0338753	-32.9610	.0072990	-.258481	374.2351	-.011154	.2568070
SDEV	.2346952	2.5052	.0992137	.038805	4.5446	.259442	.3020293
%RSD	692.8204	7.600569	1359.282	15.01267	1.214366	2325.983	117.6094
#1	.3048780	-35.0947	.1184410	-.280518	371.7527	.1841424	.4659077
#2	-.101626	-33.5858	-.072333	-.281250	371.4724	.0879327	-.089465
#3	-.101626	-30.2025	-.024211	-.213675	379.4803	-.305537	.3939783
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0036164	.0642379	.9642563	L-1422.98	16.34329	.2874848	290.3431
SDEV	.4135471	.2918815	2.053884	6.04	10.92953	.0578473	110.3485
%RSD	11435.36	454.3758	213.0018	.4242914	66.87472	20.12185	38.00623
#1	.2983462	.2997762	-1.08852	L-1417.23	12.75601	.2547986	328.2133
#2	.1816311	.1552416	3.019248	L-1429.27	7.658217	.3542760	166.0459
#3	-.469128	-.262304	.9620394	L-1422.43	28.61562	.2533798	376.7701
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3889729	1.361271	.3254577	2.904074	.4154759	-1.93046	1.302713
SDEV	.3731204	1.638205	.4008986	.421998	1.143262	1.02806	.679048
%RSD	95.92451	120.3438	123.1800	14.53124	275.1692	53.25476	52.12566
#1	.8136178	.4455219	.5605935	2.565710	-.881592	-1.32845	1.099123
#2	.1135921	3.252592	.5532202	3.376924	1.276751	-3.11753	2.060267
#3	.2397088	.3856984	-.137441	2.769587	.8512686	-1.34541	.7487498
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.69084	.1051215	.5675410	-2.11937	-1.83907	1.753926	-.004324
SDEV	1.97087	1.644202	1.941953	1.35914	.90141	.687030	2.020955
%RSD	116.5614	1564.097	342.1696	64.12970	49.01430	39.17096	46743.03
#1	-3.76314	-.141943	-1.25375	-1.00681	-1.49203	1.616302	2.167038
#2	-1.46926	-1.40157	2.611038	-3.63426	-2.86242	1.146126	-1.83038
#3	.1598706	1.858874	.3453372	-1.71703	-1.16277	2.499351	-.349634
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.3397875	.0068914	4193.911
SDEV	.7668399	.0349315	19.259
%RSD	225.6822	506.8888	.4592053
#1	1.148035	-.013858	4178.600
#2	.2488644	.0472212	4215.533
#3	-.377537	-.012689	4187.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: IBL OPERATOR:
RUN TIME: 06/03/10 19:22:07
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.406504	-24.2711	-.140925	-.105449	371.6925	-.368652	-.431373
SDEV	.122139	12.9642	.079764	.399467	.4038	.264433	.862023
%RSD	30.04626	53.41408	56.59984	378.8251	.1086463	71.72979	199.8325
#1	-.372629	-29.8996	-.114636	-.425428	372.1567	-.072445	.5207571
#2	-.304878	-33.4699	-.077625	-.233181	371.4991	-.580952	-.656101
#3	-.542005	-9.44396	-.230515	.3422624	371.4217	-.452559	-1.15877
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.100301	.0160594	6.718655	L-1441.68	.0318598	.3005780	-1.95686
SDEV	.633349	.0913178	5.405601	9.62	1.023898	.0555503	104.9489
%RSD	631.4490	568.6255	80.45660	.6670361	3213.759	18.48117	5363.115
#1	.6310209	.0428252	2.822836	L-1434.12	.9028727	.3627011	94.33835
#2	-.468650	.0910034	12.89001	L-1438.43	.2887181	.2556825	13.61120
#3	-.463273	-.085650	4.443121	L-1452.50	-1.09601	.2833503	-113.820
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8628012	-1.22010	.1575933	3.239553	1.766830	-2.07943	.4736600
SDEV	.7108561	3.63590	.1569502	.366135	.608649	.89778	.8305892
%RSD	82.38931	297.9991	99.59192	11.30203	34.44868	43.17433	175.3556
#1	.2411794	-4.82535	.1467264	3.625918	1.068894	-2.32892	.0087032
#2	1.637838	2.445682	.0063590	3.195019	2.187339	-1.08329	-.020319
#3	.7093859	-1.28064	.3196945	2.897721	2.044256	-2.82607	1.432595
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.257917	-1.11712	3.203696	-5.87969	-.185094	-.561184	-1.32642
SDEV	1.437385	2.21188	.231760	.58933	1.404371	2.084846	1.61177
%RSD	557.3051	197.9984	7.234158	10.02308	758.7332	371.5084	121.5127
#1	-1.60745	-3.67100	3.432386	-6.52206	-.238401	1.701491	-.227475
#2	-.419891	.1337130	3.209720	-5.75300	1.245171	-.980615	-.575108
#3	1.253594	.1859279	2.968983	-5.36401	-1.56205	-2.40443	-3.17667
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.888806	.0450051	4101.111
SDEV	.342365	.1768098	116.527
%RSD	38.51973	392.8660	2.841361
#1	-.501899	.2331947	4161.267
#2	-1.01196	.0194684	4175.267
#3	-1.15255	-.117648	3966.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/03/10 19:29:15
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	96.10433	47580.99	1002.419	962.6232	46328.48	946.5078	942.0867
SDEV	.29532	865.11	3.273	13.1828	702.71	8.4767	18.2235
%RSD	.3072864	1.818185	.3265423	1.369463	1.516806	.8955749	1.934379
#1	95.76558	48572.52	1005.453	976.6745	47067.36	956.2921	963.1151
#2	96.23983	47190.40	1002.854	960.6675	46249.48	941.8491	930.9018
#3	96.30758	46980.04	998.9501	950.5275	45668.61	941.3822	932.2430
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	916.5329	983.4052	23075.89	52783.32	48514.69	943.5660	50454.95
SDEV	13.2073	2.8207	316.80	908.83	645.65	15.6488	571.97
%RSD	1.441010	.2868344	1.372846	1.721810	1.330824	1.658470	1.133628
#1	930.9927	986.0765	23439.72	53831.62	49251.07	961.0664	51115.34
#2	905.1056	980.4556	22861.07	52301.32	48045.63	930.9190	50116.25
#3	913.5003	983.6836	22926.89	52217.03	48247.39	938.7125	50133.27
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	962.6906	989.6960	948.4374	Q970.1489	961.6785	997.0655	1012.269
SDEV	6.3332	4.3195	18.9458	10.1615	9.5646	16.7252	10.589
%RSD	.6578677	.4364484	1.997585	1.047416	.9945757	1.677444	1.046114
#1	969.4951	985.6326	968.4252	Q981.8681	971.9217	1016.317	1021.960
#2	961.6085	989.2227	930.7421	Q964.7905	952.9807	988.7651	1013.881
#3	956.9681	994.2327	946.1448	Q963.7881	960.1331	986.1141	1000.966
ERRORS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	989.7220	949.5297	967.7393	1002.086	994.5560	987.5551	1000.386
SDEV	7.8147	4.4150	12.3596	16.169	17.0249	11.0571	9.642
%RSD	.7895855	.4649656	1.277158	1.613513	1.711806	1.119649	.9637997
#1	998.1344	954.6243	980.5529	1020.574	1014.190	999.3495	1011.317
#2	988.3432	947.1437	955.8903	995.1004	985.5994	985.8920	996.7483
#3	982.6885	946.8212	966.7748	990.5851	983.8791	977.4236	993.0925
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	981.1730	996.1351	4044.066
SDEV	.8587	17.5836	54.643
%RSD	.0875133	1.765181	1.351198
#1	980.4166	1015.856	3982.000
#2	982.1063	990.4578	4065.266
#3	980.9961	982.0915	4084.933
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/03/10 19:36:29
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.146793	-14.1704	.1016624	-.146402	385.9060	-.128902	.5808865
SDEV	.173835	5.3452	.0881561	.139795	.0908	.234253	.4701117
%RSD	118.4216	37.72109	86.71455	95.48676	.0235318	181.7292	80.93005
#1	-.101626	-8.00617	.1867831	.0105266	385.8657	.1042760	1.113120
#2	-.000000	-17.5232	.1074480	-.257617	385.8424	-.364215	.4072410
#3	-.338753	-16.9818	.0107560	-.192117	386.0100	-.126767	.2222988
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.066056	.1177694	13.47272	-1428.22	20.70430	.3963700	57.27230
SDEV	.227258	.0649037	6.07254	3.28	2.63745	.1221267	80.56640
%RSD	344.0406	55.11078	45.07285	.2293632	12.73867	30.81129	140.6726
#1	-.246196	.1552416	14.76248	-1426.71	23.29556	.4697729	101.0957
#2	.1892666	.0428252	6.858906	-1425.97	20.79439	.2553903	106.4280
#3	-.141237	.1552416	18.79676	-1431.98	18.02296	.4639468	-35.7068
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4939182	.1834628	.2880092	.6843085	1.303584	-2.60656	.9445548
SDEV	.7480159	.5425145	.1420814	.2105182	1.416588	1.51317	.3643503
%RSD	151.4453	295.7081	49.33225	30.76363	108.6687	58.05250	38.57376
#1	-.141221	.8046104	.4315361	.8954347	2.152959	-3.89508	.7232946
#2	.3045597	-.197494	.2850726	.4744037	-.331740	-.940302	1.365079
#3	1.318416	-.056728	.1474188	.6830873	2.089533	-2.98430	.7452913
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.09562	-2.28750	3.093535	-3.49616	-2.16533	1.201788	.3126484
SDEV	2.49073	2.13392	2.258319	2.65713	2.04850	1.509210	2.588835
%RSD	227.3360	93.28622	73.00125	76.00136	94.60455	125.5804	828.0341
#1	-3.17352	-.042790	3.246275	-2.66464	-4.51229	2.575017	2.887126
#2	-1.77872	-2.52975	.7627227	-1.35423	-.736541	1.444365	.3411281
#3	1.665390	-4.28996	5.271607	-6.46960	-1.24716	-.414019	-2.29031
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.133333	.1997366	4167.333
SDEV	.877423	.0192676	17.551
%RSD	41.12920	9.646522	.4211523
#1	2.828806	.2094301	4147.466
#2	2.423646	.1775472	4173.800
#3	1.147546	.2122326	4180.733
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-10 OPERATOR:
RUN TIME: 06/03/10 19:43:37
COMMENT: SDG:1005039 CLIENTID:SDZ-WN16 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.033875	121.2402	12.84253	1.512808	405916.9	9.112082	33.47540
SDEV	.147659	2.2580	.15619	.276339	10361.7	.546517	.65179
%RSD	435.8898	1.862443	1.216220	18.26661	2.552658	5.997720	1.947078
#1	.1355013	122.7100	13.00438	1.631355	395093.8	8.628248	32.85498
#2	-.101626	122.3704	12.83051	1.710093	406911.7	9.704869	34.15458
#3	-.135501	118.6403	12.69269	1.196974	415745.3	9.003131	33.41665
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.683339	-.620965	2047.779	C.0000000	H1123203.	-11.6725	H4121907.
SDEV	.587974	.094100	54.549	.0000000	20015.	.2383	11065.
%RSD	86.04429	15.15377	2.663825	.0000000	1.781982	2.041384	.2684371
#1	-1.35661	-.583493	1997.589	C.0000000	H1102591.	-11.6612	H4133847.
#2	-.422461	-.728028	2039.915	C.0000000	H1124455.	-11.9163	H4112000.
#3	-.270942	-.551374	2105.834	C.0000000	H1142563.	-11.4401	H4119874.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.193329	1.341068	1.690564	3.322536	.0283189	-1.11380	1.541024
SDEV	1.167938	2.165955	.409633	.879763	.9965643	.49091	3.084377
%RSD	97.87227	161.5097	24.23057	26.47867	3519.083	44.07527	200.1511
#1	.1224541	3.423432	2.151937	2.560781	-1.12224	-1.23761	1.490039
#2	1.018837	-.899773	1.550161	3.121365	.5862791	-.572841	4.650577
#3	2.438695	1.499546	1.369595	4.285462	.6209181	-1.53096	-1.51754
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.619819	.7752092	-.348646	-3.29700	-.027923	5.878398	.1478011
SDEV	1.916810	1.225840	1.022084	1.62672	1.214591	.989397	4.161848
%RSD	34.10804	158.1302	293.1581	49.33942	4349.739	16.83107	2815.843
#1	4.485168	-.446616	-1.46367	-4.98719	.6302453	5.034424	4.542245
#2	4.541367	2.005024	-.126095	-3.16160	.7155321	6.967235	-.364896
#3	7.832923	.7672194	.5438257	-1.74221	-1.42955	5.633537	-3.73395
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.05594	-21.5544	2975.822
SDEV	.12201	.1126	27.302
%RSD	1.213299	.5225854	.9174494
#1	9.989656	-21.4406	2944.867
#2	10.19675	-21.6659	2986.133
#3	9.981429	-21.5568	2996.467
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-11 OPERATOR:
RUN TIME: 06/03/10 19:50:45
COMMENT: SDG:1005039 CLIENTID:SDZ-WN20 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.090334	39.70188	10.63216	1.236387	391136.7	8.899817	33.06579
SDEV	.192623	.73709	.02811	.097003	4873.0	.392253	1.02619
%RSD	213.2340	1.856555	.2643444	7.845695	1.245847	4.407425	3.103476
#1	.0677507	39.77584	10.65709	1.242789	396160.8	8.643973	33.73328
#2	-.033875	38.93060	10.60170	1.136342	386430.4	8.704055	31.88416
#3	-.304878	40.39920	10.63767	1.330031	390818.9	9.351420	33.57992
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.729371	-.685203	478.0185	C.0000000	H1132033.	37.18148	H4137771.
SDEV	.620538	.292763	21.0519	.0000000	12394.	.14374	12738.
%RSD	85.07853	42.72655	4.403999	.0000000	1.094881	.3865921	.3078376
#1	-.107003	-.422899	487.2922	C.0000000	H1140719.	37.22284	H4148549.
#2	-1.34806	-.631671	453.9219	C.0000000	H1117839.	37.30000	H4123714.
#3	-.733047	-1.00104	492.8415	C.0000000	H1137540.	37.02159	H4141050.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.295099	-.557730	.9126921	5.235560	.5264361	1.018061	2.948412
SDEV	.765547	.576040	.1850319	.766190	1.369808	2.769437	1.871559
%RSD	259.4199	103.2829	20.27320	14.63435	260.2040	272.0305	63.47684
#1	.4877571	-.992106	.7227945	5.557021	-.817367	2.625808	.8292802
#2	-1.04207	-.776788	1.092441	5.788653	1.920846	2.608168	4.374983
#3	-.330981	.0957035	.9228412	4.361006	.4758294	-2.17979	3.640972
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.513223	-1.73002	1.648859	-6.25608	4.645566	3.250204	-1.44401
SDEV	1.632871	2.39377	2.820295	5.42013	2.838640	1.365443	1.63934
%RSD	64.97118	138.3662	171.0453	86.63766	61.10428	42.01099	113.5266
#1	2.208340	-1.91255	-.274726	-7.61658	7.735192	4.761477	-2.47095
#2	1.054283	-4.02730	4.886377	-.285322	4.048664	2.105368	.4465848
#3	4.277048	.7497841	.3349251	-10.8664	2.152843	2.883768	-2.30768

ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	11.65890	-22.1508	2949.755
SDEV	.72568	.2908	20.997
%RSD	6.224289	1.312659	.7118188
#1	12.37617	-22.1381	2937.800
#2	11.67544	-21.8665	2974.000
#3	10.92508	-22.4477	2937.467

ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-12 OPERATOR:
RUN TIME: 06/03/10 19:57:52
COMMENT: SDG:1005039 CLIENTID:SDZ-WN20D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.079042	37.38294	10.53552	1.114203	396179.0	9.087436	33.30910
SDEV	.192623	3.17726	.17662	.165122	8463.0	.365896	.63657
%RSD	243.6960	8.499232	1.676413	14.81970	2.136167	4.026400	1.911101
#1	-.135501	35.71856	10.33958	.9242197	401591.8	8.932185	33.99356
#2	-.237127	41.04662	10.58449	1.195231	400518.8	9.505360	33.19894
#3	.1355013	35.38363	10.68248	1.223157	386426.3	8.824762	32.73479
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0447242	-1.04386	471.0227	C.0000000	H1125299.	35.29546	H4163246.
SDEV	.0045578	.06686	15.0023	.0000000	16015.	.86059	14588.
%RSD	10.19084	6.405121	3.185041	.0000000	1.423178	2.438244	.3503977
#1	.0410494	-.968920	462.1922	C.0000000	H1130104.	35.47411	H4162751.
#2	.0498243	-1.09740	488.3447	C.0000000	H1138362.	36.05270	H4178074.
#3	.0432990	-1.06528	462.5311	C.0000000	H1107432.	34.35956	H4148911.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3054569	-1.61321	.5774898	1.660070	1.017529	.2785265	7.613965
SDEV	.8566577	1.48623	.4041747	.289907	.744903	2.146278	2.225602
%RSD	280.4513	92.12852	69.98818	17.46354	73.20710	770.5832	29.23052
#1	-.502863	-1.17683	.7033114	1.950561	1.361840	2.614441	10.06428
#2	.2158289	-.394025	.1253698	1.370751	1.527992	-1.60647	5.717789
#3	1.203405	-3.26878	.9037884	1.658897	.1627544	-.172395	7.059825
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.356736	.0897580	1.476618	-10.8690	5.839847	3.056658	-1.00578
SDEV	2.167507	2.316480	1.686273	6.9024	1.553840	2.396900	1.68308
%RSD	91.97072	2580.807	114.1983	63.50507	26.60755	78.41569	167.3407
#1	4.082846	2.421306	.8288209	-2.96115	5.393979	4.709544	-1.97457
#2	-.075872	-2.21135	3.390732	-13.9615	4.557683	4.152741	-1.98043
#3	3.063236	.0593220	.2103007	-15.6844	7.567879	.3076898	.9376684
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	11.97373	-22.2410	2960.155
SDEV	1.05869	.1254	18.446
%RSD	8.841755	.5640010	.6231447
#1	11.67259	-22.2896	2975.266
#2	11.09824	-22.3349	2939.600
#3	13.15037	-22.0985	2965.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-13 OPERATOR:
RUN TIME: 06/03/10 20:05:00
COMMENT: SDG:1005039 CLIENTID:SDZ-WN21 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.033875	47.49522	11.74105	1.658354	372240.0	9.063829	32.22601
SDEV	.033875	11.52587	.17234	.353263	3904.3	.231095	.81141
%RSD	99.99998	24.26744	1.467857	21.30202	1.048856	2.549638	2.517879
#1	-.000000	54.90801	11.77288	1.969358	368886.4	9.134448	32.81314
#2	-.033875	53.36137	11.89527	1.731438	376526.1	9.251376	32.56478
#3	-.067751	34.21627	11.55502	1.274265	371307.6	8.805665	31.30011
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.87642	-1.41858	987.6721	C.0000000	H1081857.	-5.66762	H4073714.
SDEV	.80703	.13721	14.2626	.0000000	13709.	.23281	17707.
%RSD	43.00896	9.672445	1.444059	.0000000	1.267158	4.107736	.4346616
#1	-2.76566	-1.54706	979.0673	C.0000000	H1084917.	-5.90004	H4079027.
#2	-1.67311	-1.43464	1004.135	C.0000000	H1093778.	-5.66840	H4088156.
#3	-1.19049	-1.27405	979.8137	C.0000000	H1066877.	-5.43442	H4053959.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.502824	-1.51334	1.580880	5.226656	-.517828	.8462923	3.897623
SDEV	.357515	1.53676	.673890	.603554	.344314	1.469048	.201798
%RSD	23.78953	101.5478	42.62755	11.54761	66.49201	173.5864	5.177469
#1	1.212625	-2.94550	1.658573	4.657120	-.702277	-.397763	4.129215
#2	1.393649	.1101103	.8715104	5.859273	-.120585	2.466993	3.759552
#3	1.902197	-1.70462	2.212556	5.163577	-.730622	.4696476	3.804101
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.552840	-.691314	-.435321	-8.32555	5.421232	4.567062	-.399315
SDEV	1.824608	1.462533	1.066186	5.27844	1.588040	1.898844	1.086840
%RSD	32.85901	211.5586	244.9193	63.40047	29.29298	41.57692	272.1763
#1	3.451018	-1.67885	-.218855	-9.40450	4.094721	6.220507	.1438419
#2	6.477447	-1.38396	.5060210	-2.59100	4.988062	4.987416	.3088808
#3	6.730054	.9888706	-1.59313	-12.9812	7.180913	2.493264	-1.65067
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.00490	-21.2236	2955.867
SDEV	1.66550	.4470	34.198
%RSD	16.64682	2.106111	1.156952
#1	8.198480	-21.6771	2937.267
#2	11.47953	-21.2103	2935.000
#3	10.33669	-20.7835	2995.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-14 OPERATOR:
RUN TIME: 06/03/10 20:12:07
COMMENT: SDG:1005039 CLIENTID:SDZ-WN01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.090334	344.2247	8.846508	.7613077	397229.3	9.039652	33.16197
SDEV	.282069	10.6985	.196421	.1402194	7131.3	.523549	1.61363
%RSD	312.2499	3.107999	2.220323	18.41822	1.795270	5.791696	4.865913
#1	.1355013	356.2422	9.032217	.9141219	402867.4	8.704007	34.80447
#2	-.000000	340.6948	8.866416	.7312401	399607.8	9.642918	33.10259
#3	-.406504	335.7373	8.640891	.6385612	389212.7	8.772032	31.57885
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1924356	-1.31687	706.8210	C.0000000	H1140110.	L-25.4129	H4152550.
SDEV	.0063245	.07589	21.0109	.0000000	22672.	.4194	25102.
%RSD	3.286546	5.763199	2.972592	.0000000	1.988598	1.650323	.6044865
#1	.1997370	-1.29011	718.0309	C.0000000	H1160002.	L-25.8028	H4179228.
#2	.1886546	-1.40252	719.8496	C.0000000	H1144903.	L-25.4666	H4149025.
#3	.1889153	-1.25799	682.5824	C.0000000	H1115424.	L-24.9692	H4129398.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC LOW	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1211511	-.387140	2.728675	4.193985	-.298607	.5332242	4.268366
SDEV	.9662268	2.876239	.920094	.469043	2.783272	.8158342	1.742325
%RSD	797.5384	742.9451	33.71946	11.18371	932.0840	153.0002	40.81948
#1	-.951233	-3.22945	3.542919	4.619254	.7364304	.2489979	2.820239
#2	.3907208	2.521871	2.912594	3.690901	L-3.45111	-.102478	6.201930
#3	.9239660	-.453844	1.730512	4.271800	1.818855	1.453153	3.782928
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.639100	.1766467	-.539934	-9.71511	5.645651	4.439595	-.091304
SDEV	2.946436	3.623665	2.823331	3.37594	2.893988	1.629597	2.359675
%RSD	179.7594	2051.363	522.9028	34.74934	51.26048	36.70599	2584.406
#1	.1166630	3.447872	-.621349	-9.31257	5.018523	3.700433	2.069486
#2	5.035299	-3.71845	-3.32168	-6.55849	3.116646	6.307781	-2.60916
#3	-.234662	.8005167	2.323224	-13.2743	8.801785	3.310571	.2657660
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	11.42325	-18.1399	2992.800
SDEV	.71246	.3680	22.039
%RSD	6.236933	2.028864	.7364134
#1	12.24590	-18.4919	2967.400
#2	11.01807	-18.1701	3004.133
#3	11.00579	-17.7577	3006.867
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-15 OPERATOR:
RUN TIME: 06/03/10 20:19:14
COMMENT: SDG:1005039 CLIENTID:SDZ-WN01D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1242096	373.2630	8.914411	1.581640	396850.8	9.213643	34.95781
SDEV	.2177879	15.8569	.282737	.522020	10612.6	.254944	1.28015
%RSD	175.3391	4.248185	3.171680	33.00497	2.674194	2.767025	3.661976
#1	.3726287	369.0518	8.667368	1.670708	384599.6	9.204770	33.74205
#2	-.033875	390.8005	9.222776	2.053395	402736.4	9.472907	36.29385
#3	.0338753	359.9368	8.853088	1.020816	403216.3	8.963251	34.83753
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.25402	-1.33829	644.4103	C.0000000	H1129933.	L-25.3193	H4181447.
SDEV	.55648	.10029	18.3415	.0000000	32067.	.8337	34223.
%RSD	44.37512	7.494000	2.846240	.0000000	2.837999	3.292624	.8184521
#1	-1.19880	-1.37041	623.5819	C.0000000	H1096084.	L-24.4796	H4156282.
#2	-1.83605	-1.41858	651.5021	C.0000000	H1159858.	L-26.1468	H4220416.
#3	-.727222	-1.22587	658.1472	C.0000000	H1133857.	L-25.3315	H4167644.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC LOW	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0565570	-1.48198	3.204580	4.528754	1.424390	.4114353	3.775056
SDEV	1.081263	3.89823	.811171	.392988	2.550669	2.728264	2.385835
%RSD	1911.811	263.0417	25.31286	8.677619	179.0710	663.1088	63.19997
#1	.3973081	-5.30251	4.139626	4.650692	2.637207	-2.47542	5.832982
#2	-1.15403	-1.63300	2.784652	4.089251	-1.50639	.7626333	4.332255
#3	.9263963	2.489562	2.689462	4.846319	3.142357	2.947094	1.159931
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4524185	3.384997	.4414509	-6.86287	4.039027	5.161190	-.795736
SDEV	.4625610	3.908971	2.327572	3.03415	3.091438	1.924560	4.062129
%RSD	102.2418	115.4793	527.2551	44.21111	76.53919	37.28907	510.4869
#1	.8274831	7.019352	.4452952	-10.2209	1.387366	4.865116	-.838010
#2	.5942152	-.750294	-1.88804	-4.31843	3.295193	3.401825	3.287364
#3	-.064443	3.885932	2.767099	-6.04931	7.434522	7.216630	-4.83656
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	11.58100	-18.1663	2957.400
SDEV	1.40669	.4558	50.644
%RSD	12.14657	2.509206	1.712465
#1	12.89456	-17.9447	2943.533
#2	11.75169	-18.6906	2915.133
#3	10.09675	-17.8637	3013.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-16 OPERATOR:
RUN TIME: 06/03/10 20:26:22
COMMENT: SDG:1005039 CLIENTID:SDZ-WN04 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.271003	91.48257	8.218234	.9197096	396411.2	9.176342	34.09462
SDEV	.676659	16.26184	.149504	.2729055	7097.9	.533900	.92381
%RSD	249.6873	17.77589	1.819171	29.67301	1.790545	5.818221	2.709562
#1	-1.01626	108.6293	8.349305	1.215700	404541.2	9.752906	35.11874
#2	-.101626	89.53786	8.249995	.8653600	393245.1	8.699038	33.32408
#3	.3048780	76.28053	8.055402	.6780685	391447.3	9.077082	33.84103
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.207106	.6209651	479.2913	C.0000000	H1140614.	L-28.5051	H4153514.
SDEV	.914886	.0976855	40.2331	.0000000	19999.	.4471	34468.
%RSD	441.7486	15.73125	8.394288	.0000000	1.753383	1.568453	.8298532
#1	.8344490	.7333809	521.6515	C.0000000	H1163704.	L-28.9869	H4192851.
#2	-.880820	.5727872	474.6312	C.0000000	H1128724.	L-28.1036	H4139094.
#3	-.574946	.5567272	441.5912	C.0000000	H1129414.	L-28.4249	H4128598.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC LOW	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4708665	-2.32103	2.074728	.5745063	1.668087	-1.36523	4.823776
SDEV	1.759764	1.14100	.296572	.6087548	1.050154	2.04171	2.479014
%RSD	373.7287	49.15932	14.29452	105.9614	62.95558	149.5511	51.39158
#1	2.128179	-1.97125	1.732463	.7744138	.6472011	.7135207	4.605179
#2	.6604223	-3.59597	2.255684	1.058171	1.611814	-3.36777	7.404849
#3	-1.37600	-1.39586	2.236036	-.109066	2.745246	-1.44143	2.461298
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.702964	-4.16955	4.578462	-13.5481	4.713035	2.114257	-1.52217
SDEV	1.041217	8.25076	2.741453	4.8526	4.995659	3.293066	3.47487
%RSD	148.1182	197.8813	59.87717	35.81727	105.9967	155.7552	228.2841
#1	-1.84664	-13.5644	7.738234	-18.7822	10.44263	-1.68667	-5.08889
#2	-.452263	-.842128	2.832903	-12.6635	1.269081	3.919796	-1.33056
#3	.1900153	1.897924	3.164248	-9.19877	2.427393	4.109642	1.852932
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	12.34848	-21.3647	2985.155
SDEV	.64916	.2219	42.249
%RSD	5.257005	1.038801	1.415312
#1	12.38806	-21.4239	2936.933
#2	12.97694	-21.5510	3002.867
#3	11.68043	-21.1191	3015.666
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005039-17 OPERATOR:
RUN TIME: 06/03/10 20:33:30
COMMENT: SDG:1005039 CLIENTID:SDZ-WN05 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.146793	275.4998	9.336490	.9810448	388486.5	9.008199	33.73199
SDEV	.039116	21.4622	.156757	.4268086	5640.6	.138923	.13304
%RSD	26.64693	7.790282	1.678969	43.50552	1.451940	1.542184	.3944031
#1	-.101626	256.9500	9.387381	.7043986	394623.1	9.104869	33.59917
#2	-.169377	270.5424	9.160610	.7661459	387308.2	8.849000	33.86525
#3	-.169377	299.0069	9.461477	1.472590	383528.1	9.070727	33.73156
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.023520	-1.27940	601.2270	C.0000000	H1111132.	L-22.0142	H4147620.
SDEV	.464412	.20712	31.2205	.0000000	9145.	.0889	34992.
%RSD	45.37405	16.18872	5.192798	.0000000	.8230069	.4036071	.8436735
#1	1.404198	-1.33829	589.3342	C.0000000	H1121139.	L-22.0826	H4111551.
#2	.5060845	-1.04922	577.7007	C.0000000	H1103210.	L-21.9138	H4149881.
#3	1.160277	-1.45070	636.6461	C.0000000	H1109049.	L-22.0462	H4181426.
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC LOW	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.107713	-1.72423	2.526400	1.457193	-.198679	-1.71420	7.583679
SDEV	.856730	1.20119	.549471	.433913	1.518532	1.09878	1.105069
%RSD	77.34229	69.66518	21.74919	29.77732	764.3139	64.09842	14.57167
#1	1.188864	-1.70345	2.668189	1.931061	1.357758	-2.28356	8.756275
#2	1.920980	-.533570	1.919930	1.361211	-.277564	-.447596	6.561560
#3	.2132942	-2.93568	2.991081	1.079307	-1.67623	-2.41146	7.433202
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.775562	-4.48884	1.939096	-12.8872	3.859822	3.479286	-.501239
SDEV	3.039743	2.72737	1.246895	3.8987	3.462659	1.028144	1.722900
%RSD	109.5181	60.75894	64.30290	30.25237	89.71033	29.55044	343.7284
#1	.1137860	-1.33963	2.700406	-13.2403	3.182590	2.471094	-1.33135
#2	2.124974	-6.08309	2.616765	-16.5973	7.611065	4.526284	-1.65193
#3	6.087927	-6.04382	.5001155	-8.82396	.7858104	3.440481	1.479567
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	11.53057	-18.7048	2966.889
SDEV	.68743	.2493	54.347
%RSD	5.961769	1.333039	1.831788
#1	11.67004	-18.7479	3018.000
#2	10.78410	-18.4367	2972.867
#3	12.13757	-18.9297	2909.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: IBL OPERATOR:
RUN TIME: 06/03/10 20:40:38
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.191960	-18.5320	-.034090	.1831871	371.4701	-.162074	-.580750
SDEV	.215137	9.3220	.005166	.3178715	6.2519	.349481	.196977
%RSD	112.0739	50.30224	15.15339	173.5229	1.683013	215.6304	33.91766
#1	-.067751	-13.1078	-.034398	.4768019	367.4038	-.255581	-.789929
#2	-.067751	-13.1921	-.039094	.2271286	368.3376	.2246490	-.398810
#3	-.440379	-29.2960	-.028776	-.154369	378.6691	-.455291	-.553512
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.574662	.2515976	-5.49039	L-1428.71	14.97493	.2697040	251.1233
SDEV	.700356	.3318519	8.80972	7.27	18.20838	.1103962	150.2411
%RSD	121.8727	131.8979	160.4570	.5085883	121.5924	40.93235	59.82760
#1	-.352120	.3479544	-11.6765	L-1432.18	4.619021	.3784713	148.5633
#2	-.012617	-.117769	4.596247	L-1433.59	4.306395	.2728926	181.2280
#3	-1.35925	.5246081	-9.39095	L-1420.36	35.99938	.1577480	423.5787
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8744655	2.430428	-.131449	.4017325	1.106223	-.895121	.6917753
SDEV	.6494979	1.668049	.249208	.1241090	.508053	.518598	1.532386
%RSD	74.27371	68.63189	189.5859	30.89344	45.92685	57.93607	221.5149
#1	.5689467	3.710375	-.419122	.2584267	1.475194	-1.39619	-1.07765
#2	1.620387	3.036924	.0185367	.4741690	.5267519	-.360609	1.583276
#3	.4340628	.5439844	.0062392	.4726019	1.316724	-.928568	1.569704
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.658733	.2666752	1.522398	-3.90944	.6068102	1.433578	.7443497
SDEV	1.961118	1.466536	.477564	.96423	.4686179	2.512326	1.163133
%RSD	297.7106	549.9335	31.36923	24.66404	77.22643	175.2486	156.2617
#1	-2.91795	1.911146	1.254568	-5.02253	.4112943	4.151801	2.040590
#2	.3369640	-.905583	1.238857	-3.37538	1.141527	.9520937	.4006943
#3	.6047886	-.205538	2.073767	-3.33042	.2676095	-.803160	-.208236
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.320409	-.173387	4065.622
SDEV	.324068	.111947	28.911
%RSD	101.1419	64.56448	.7110983
#1	-.361437	-.101616	4057.933
#2	-.622009	-.116167	4041.333
#3	.0222190	-.302379	4097.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: IBL OPERATOR:
RUN TIME: 06/03/10 20:47:46
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.112918	-35.3041	-.059347	-.404858	372.4483	.0185012	.3811090
SDEV	.198491	.8900	.026887	.037359	1.4606	.0768947	.1442377
%RSD	175.7840	2.521041	45.30527	9.227598	.3921711	415.6196	37.84684
#1	.0338753	-35.0642	-.085841	-.446535	371.2314	-.067197	.5097815
#2	-.338753	-36.2895	-.060119	-.374378	372.0455	.0814678	.2251919
#3	-.033875	-34.5586	-.032082	-.393662	374.0681	.0412324	.4083535
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.146195	.1980664	3.687730	L-1429.80	4.706141	.2488432	137.2219
SDEV	.322269	.1624574	9.693180	2.69	5.363173	.1015727	77.6238
%RSD	220.4375	82.02168	262.8495	.1883955	113.9612	40.81795	56.56807
#1	-.468833	.2997762	-2.92496	L-1430.53	1.902566	.1470274	166.2137
#2	.1757040	.2837171	-.826534	L-1432.05	1.325816	.3501710	49.27493
#3	-.145457	.0107060	14.81469	L-1426.81	10.89004	.2493312	196.1770
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1148328	1.705712	-.047247	2.679345	.8116779	-.917321	1.728460
SDEV	.6605245	1.531963	.156808	.430559	.9219785	1.520890	.962965
%RSD	575.2057	89.81368	331.8893	16.06955	113.5892	165.7968	55.71228
#1	.0518443	3.393185	-.140260	2.340735	.9042860	-2.05206	2.745337
#2	-.511941	.4023716	.1337959	2.533392	-.153110	.8108162	.8304425
#3	.8045952	1.321579	-.135277	3.163909	1.683857	-1.51072	1.609601
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.558707	-1.19277	1.809541	-1.24025	-.758954	.5682587	-.964616
SDEV	1.784231	2.06477	1.034907	1.95172	1.484019	1.671529	.620330
%RSD	319.3503	173.1071	57.19165	157.3644	195.5348	294.1493	64.30848
#1	-2.61076	-2.82288	2.762208	-3.32407	-1.41987	1.233035	-1.60382
#2	.3083361	-1.88447	.7084268	.5449538	.9407030	1.805126	-.365059
#3	.6263079	1.129043	1.957990	-.941650	-1.79769	-1.33339	-.924973
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.676095	-.036772	4227.422
SDEV	.404101	.057343	16.143
%RSD	59.76984	155.9429	.3818625
#1	-1.13686	-.098441	4213.133
#2	-.509492	-.026815	4244.933
#3	-.381931	.0149410	4224.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/03/10 20:54:54
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	94.02664	47670.51	1021.742	941.1415	Q44765.43	927.4251	917.9747
SDEV	.72838	527.27	19.225	11.2758	665.92	16.9206	17.3894
%RSD	.7746565	1.106070	1.881566	1.198101	1.487578	1.824467	1.894326
#1	94.64769	48126.52	1024.518	950.9374	45428.62	938.9755	927.1450
#2	94.20731	47093.14	1001.280	928.8156	Q44096.81	908.0027	897.9195
#3	93.22493	47791.86	1039.428	943.6715	Q44770.88	935.2971	928.8595
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	903.6856	978.7426	22667.34	53742.10	48282.24	928.2478	50657.27
SDEV	22.8415	4.0539	435.11	843.66	866.93	19.1312	435.39
%RSD	2.527595	.4141978	1.919528	1.569834	1.795545	2.061002	.8594779
#1	918.9802	983.3785	22914.03	53560.14	48759.38	938.1317	50882.44
#2	Q877.4294	976.9868	Q22164.95	53004.26	47281.56	906.1964	50155.41
#3	914.6471	975.8626	22923.04	54661.89	48805.79	940.4153	50933.96
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	945.8345	995.8621	938.0017	Q929.7223	951.0601	995.4373	1011.260
SDEV	12.5719	10.3252	20.6808	18.1300	10.4689	13.8331	10.912
%RSD	1.329188	1.036806	2.204775	1.950041	1.100763	1.389646	1.079093
#1	954.8553	995.8882	958.6446	Q941.7119	956.8731	996.9604	1019.426
#2	931.4741	985.5238	917.2831	Q908.8654	938.9746	980.9056	998.8660
#3	951.1741	1006.174	938.0772	Q938.5897	957.3327	1008.446	1015.487
ERRORS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	982.4252	944.3297	954.4161	997.6829	994.3132	968.7432	997.9967
SDEV	10.1428	17.4925	7.4071	14.3482	13.6477	19.9280	14.3210
%RSD	1.032421	1.852372	.7760829	1.438157	1.372579	2.057095	1.434975
#1	987.7505	950.0148	960.2929	997.3620	996.7570	979.7076	1002.567
#2	970.7289	924.7018	946.0961	983.4979	979.6086	945.7407	981.9484
#3	988.7962	958.2724	956.8593	1012.189	1006.574	980.7812	1009.475
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	972.6265	989.8534	3999.289
SDEV	7.4644	13.6347	56.013
%RSD	.7674440	1.377451	1.400569
#1	978.6587	1005.516	4007.733
#2	964.2788	980.6390	4050.600
#3	974.9421	983.4051	3939.533
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/03/10 21:02:08
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0790424	-12.9172	.2526994	-.222837	391.6451	.2548541	.5642462
SDEV	.1410343	2.9157	.0526399	.066763	.5424	.0735410	.0468357
%RSD	178.4285	22.57222	20.83105	29.96055	.1384945	28.85613	8.300571
#1	-.033875	-16.1711	.2569408	-.266427	391.2166	.2099689	.6103051
#2	.0338753	-12.0391	.3030903	-.256109	392.2550	.3397249	.5166706
#3	.2371273	-10.5415	.1980670	-.145976	391.4638	.2148686	.5657630
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.000107	.6316711	9.557042	-1418.64	24.40665	.4897863	90.27489
SDEV	.227012	.1298068	2.299620	1.55	2.07258	.0538154	29.79784
%RSD	212718.1	20.54974	24.06205	.1094484	8.491849	10.98752	33.00790
#1	-.255177	.5567272	10.90669	-1418.33	22.07697	.5518944	109.3692
#2	.0750946	.7815591	6.901791	-1417.27	25.09711	.4604749	105.5161
#3	.1797622	.5567272	10.86264	-1420.33	26.04586	.4569897	55.93929
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5970983	4.455847	.5063096	1.300771	1.377357	-2.26189	.3648716
SDEV	.4702860	1.512104	.1615501	.205822	.280260	.15524	2.476708
%RSD	78.76189	33.93527	31.90736	15.82304	20.34767	6.863088	678.7889
#1	.1163462	2.739478	.4069739	1.293530	1.567445	-2.38418	2.473975
#2	.6187805	5.036513	.4192378	1.098666	1.055497	-2.31423	.9829957
#3	1.056168	5.591549	.6927171	1.510118	1.509129	-2.08725	-2.36236
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.202498	2.114022	1.006720	-2.59685	-2.09751	.7408716	1.029361
SDEV	3.238483	.631157	.469914	1.93846	.92531	.7653692	1.489559
%RSD	1599.264	29.85574	46.67769	74.64658	44.11446	103.3066	144.7072
#1	-3.76294	1.626073	1.535344	-4.61486	-1.27334	.4105510	1.309493
#2	.5876550	1.889180	.6364039	-.749196	-3.09846	1.615931	-.580375
#3	2.567787	2.826812	.8484136	-2.42648	-1.92074	.1961331	2.358966
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.202545	.1791576	4228.111
SDEV	1.118893	.0236063	33.540
%RSD	93.04373	13.17627	.7932705
#1	2.476597	.1754557	4265.066
#2	.3797382	.1576209	4199.600
#3	.7512995	.2043961	4219.667
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060167-BLK1 OPERATOR:
RUN TIME: 06/03/10 21:09:17
COMMENT: SDG:1005130 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3726287	-8.98996	.6962193	-.312880	966.0402	-.312058	-1.21039
SDEV	.3520428	9.11689	.0342658	.272603	4.4033	.203595	.52818
%RSD	94.47550	101.4119	4.921693	87.12705	.4558062	65.24272	43.63697
#1	.7791327	-8.36592	.7167936	-.211870	969.6215	-.465568	-.629061
#2	.1693767	-18.4028	.6566632	-.621571	967.3752	-.389500	-1.66079
#3	.1693767	-.201131	.7152010	-.105198	961.1239	-.081105	-1.34132
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.634690	2.328619	46.15081	-846.985	1240.178	1.147996	H11053.72
SDEV	.173964	.213858	6.69582	6.347	5.660	.071925	92.68
%RSD	6.602821	9.183902	14.50857	.7493454	.4564020	6.265282	.8384862
#1	2.501401	2.467801	53.87558	-849.532	1239.408	1.171787	H10959.72
#2	2.831485	2.435682	42.00554	-851.663	1234.941	1.067190	H11056.40
#3	2.571185	2.082374	42.57130	-839.760	1246.183	1.205012	H11145.03
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.078080	-6.50353	.3530192	7.180211	H6.807862	-.799666	H13.60078
SDEV	.204795	.60901	.5650858	.583673	.854084	2.114016	2.69684
%RSD	18.99625	9.364252	160.0722	8.128919	12.54556	264.3625	19.82855
#1	1.070776	-5.99363	1.005503	7.833764	H6.691319	-3.02575	H14.44769
#2	.8770350	-7.17788	.0222350	6.996006	H6.018033	-.554066	H10.58214
#3	1.286429	-6.33908	.0313196	6.710864	H7.714233	1.180824	H15.77251
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.88416	13.67752	3.375221	-22.7646	10.16339	16.10617	-2.11102
SDEV	1.64688	1.26189	1.633109	2.5325	2.35828	.82899	.41571
%RSD	57.10101	9.226010	48.38525	11.12473	23.20368	5.147017	19.69244
#1	-3.45344	12.41304	3.831744	-25.5698	8.226441	15.97474	-1.72019
#2	-1.02816	14.93680	1.562429	-20.6466	9.474254	16.99303	-2.06507
#3	-4.17088	13.68273	4.731489	-22.0773	12.78947	15.35075	-2.54780
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.774968	.0105586	4126.800
SDEV	.204065	.0377179	52.601
%RSD	11.49682	357.2235	1.274624
#1	1.924646	.0380230	4157.866
#2	1.542522	.0260998	4156.466
#3	1.857735	-.032447	4066.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060167-BS1 OPERATOR:
RUN TIME: 06/03/10 21:16:25
COMMENT: SDG:1005130 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	L729.8328	H68502.52	L1472.725	H1221.787	L36685.83	H1950.648	L580.1173
SDEV	8.7922	238.91	10.097	14.089	596.05	10.296	6.5890
%RSD	1.204686	.3487595	.6856201	1.153143	1.624737	.5278434	1.135809
#1	L721.1382	H68317.68	L1484.384	H1205.521	L35997.95	H1939.030	L576.1252
#2	L729.6409	H68772.29	L1466.847	H1230.152	L37010.12	H1954.274	L587.7225
#3	L738.7194	H68417.59	L1466.944	H1229.688	L37049.43	H1958.641	L576.5041
ERRORS	LC LOW	LC HIGH	LC LOW	LC HIGH	LC LOW	LC HIGH	LC LOW
HIGH	1200.000	24000.00	24000.00	600.0000	60000.00	600.0000	6000.000
LOW	800.0000	16000.00	16000.00	400.0000	40000.00	400.0000	4000.000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	L524.9438	L1302.651	H106544.0	L25122.85	L18342.15	H2643.891	L4156.433
SDEV	10.8731	4.724	1043.2	290.01	114.78	39.922	82.993
%RSD	2.071280	.3626545	.9791517	1.154355	.6257861	1.509961	1.996733
#1	L512.4047	L1297.324	H105417.9	L25407.17	L18225.67	H2602.074	L4252.213
#2	L531.7634	L1304.294	H107477.6	L25133.91	L18455.16	H2681.600	L4105.814
#3	L530.6631	L1306.334	H106736.4	L24827.47	L18345.63	H2647.998	L4111.271
ERRORS	LC LOW	LC LOW	LC HIGH	LC LOW	LC LOW	LC HIGH	LC LOW
HIGH	1200.000	3000.000	12000.00	60000.00	60000.00	1800.000	60000.00
LOW	800.0000	2000.000	8000.000	40000.00	40000.00	1200.000	40000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	L429.9969	H1361.704	L615.0748	L912.0444	H638.4772	H648.9645	L474.0322
SDEV	3.1996	8.542	10.4420	12.0106	1.9492	3.3739	.9279
%RSD	.7440934	.6273368	1.697685	1.316883	.3052949	.5198877	.1957434
#1	L426.3492	H1353.857	L603.0248	L898.8337	H636.6356	H645.0711	L474.8399
#2	L431.3132	H1370.804	L621.4645	L922.3051	H638.2772	H650.7919	L474.2380
#3	L432.3284	H1360.452	L620.7352	L914.9945	H640.5187	H651.0305	L473.0187
ERRORS	LC LOW	LC HIGH	LC LOW	LC LOW	LC HIGH	LC HIGH	LC LOW
HIGH	4800.000	1200.000	6000.000	2400.000	360.0000	600.0000	7200.000
LOW	3200.000	800.0000	4000.000	1600.000	240.0000	400.0000	4800.000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	L678.0583	636.0621	639.6785	634.3754	656.2451	H1491.670	L-.687267
SDEV	.2969	8.1742	6.8965	1.9324	4.1078	8.586	2.536682
%RSD	.0437839	1.285130	1.078117	.3046155	.6259603	.5755798	369.0971
#1	L677.7790	645.1894	632.3607	632.1600	651.5139	H1481.846	L1.799054
#2	L678.0256	633.5811	640.6173	635.7139	658.3165	H1497.732	L-.589378
#3	L678.3701	629.4159	646.0575	635.2523	658.9048	H1495.434	L-3.27148
ERRORS	LC LOW	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC HIGH	LC LOW
HIGH	1200.000					1205.000	1205.000
LOW	800.0000					795.0000	795.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	L532.7364	H2716.454	4273.866
SDEV	1.7979	19.798	40.733
%RSD	.3374897	.7288095	.9530703
#1	L530.8325	H2693.861	4236.466
#2	L532.9717	H2724.728	4267.866
#3	L534.4052	H2730.772	4317.267
ERRORS	LC LOW	LC HIGH	NOCHECK
HIGH	1205.000	1205.000	
LOW	795.0000	795.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-07 OPERATOR:
RUN TIME: 06/03/10 21:23:32
COMMENT: SDG:1005130 CLIENTID:SS50-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1016260	2546.069	21.67160	-.417734	1766.457	-.079235	.3946211
SDEV	.2060556	25.536	.25381	.444190	22.712	.059039	.7919542
%RSD	202.7588	1.002969	1.171154	106.3332	1.285754	74.51208	200.6872
#1	.2371273	2518.317	21.96040	.0881560	1747.999	-.147401	1.089859
#2	-.135501	2551.317	21.48399	-.743900	1759.552	-.045962	-.467463
#3	.2032520	2568.574	21.57043	-.597458	1791.821	-.044340	.5614678
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.106008	3.104825	1173.775	L-1191.66	272.4284	8.494653	578.2147
SDEV	.201303	.344561	7.614	7.61	4.9572	.092906	33.1705
%RSD	2.832855	11.09760	.6486825	.6385890	1.819619	1.093695	5.736713
#1	7.020117	2.708693	1180.363	L-1185.60	277.6489	8.600504	612.3611
#2	7.336009	3.270773	1175.522	L-1200.20	267.7851	8.456828	546.1149
#3	6.961897	3.335010	1165.439	L-1189.17	271.8514	8.426625	576.1682
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.148696	-2.14883	9.255255	18.91344	29.42960	-1.42045	15.13634
SDEV	.337115	4.20049	.122906	.36228	1.40696	1.21613	1.00134
%RSD	15.68930	195.4782	1.327954	1.915441	4.780779	85.61558	6.615499
#1	1.929613	2.617978	9.189800	19.27352	30.51093	-.133314	14.54798
#2	2.536893	-3.75617	9.178928	18.54900	27.83889	-1.57779	16.29253
#3	1.979583	-5.30829	9.397035	18.91779	29.93897	-2.55026	14.56850
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.54200	40.45143	23.92377	-24.8797	10.28866	16.31499	-2.26038
SDEV	.73406	3.27008	.72829	3.1842	1.62138	.59008	.34681
%RSD	47.60434	8.083964	3.044208	12.79835	15.75892	3.616790	15.34277
#1	-2.26682	43.68059	23.93265	-21.7842	10.67295	16.19164	-1.95726
#2	-.799037	37.14192	23.19108	-28.1457	11.68336	16.95700	-2.63857
#3	-1.56015	40.53177	24.64758	-24.7092	8.509651	15.79635	-2.18531
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.293822	261.5543	4127.511
SDEV	1.258132	6.8375	33.723
%RSD	54.84870	2.614163	.8170367
#1	3.655793	253.8359	4094.533
#2	2.050641	263.9746	4161.933
#3	1.175033	266.8524	4126.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060167-DUP1 OPERATOR:
RUN TIME: 06/03/10 21:30:40
COMMENT: SDG:1005130 CLIENTID:SS50-0-1D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1693767	2752.966	27.11068	.1751532	2017.242	-.358279	-.264898
SDEV	.1221393	30.646	.14204	.1617784	21.895	.155638	.674849
%RSD	72.11103	1.113188	.5239152	92.36394	1.085369	43.44038	254.7582
#1	.1355013	2784.984	26.99708	.3189902	2040.696	-.316822	.3744729
#2	.0677507	2750.007	27.06502	.2064599	2013.689	-.227568	-.198805
#3	.3048780	2723.908	27.26993	.0000095	1997.341	-.530448	-.970361
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.352309	4.582294	1332.133	L-1073.41	364.7302	8.199894	528.9788
SDEV	.925864	.051624	30.062	1.07	10.5208	.238632	18.5359
%RSD	14.57523	1.126602	2.256718	.0995694	2.884544	2.910186	3.504085
#1	6.851499	4.603706	1364.750	L-1074.03	376.7525	8.472759	543.3427
#2	6.921452	4.523409	1326.114	L-1074.03	360.2311	8.096681	508.0550
#3	5.283977	4.619766	1305.535	L-1072.18	357.2070	8.030241	535.5387
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.351822	-6.41704	9.480443	21.10314	36.19964	1.917168	13.35143
SDEV	.416524	2.11850	.233689	1.34828	.85848	.812298	2.40140
%RSD	17.71068	33.01369	2.464960	6.388997	2.371508	42.36967	17.98606
#1	2.234483	-6.68527	9.745948	22.54294	37.18127	2.744391	12.03692
#2	2.814429	-8.38866	9.389416	20.89618	35.58932	1.886445	16.12310
#3	2.006553	-4.17720	9.305965	19.87031	35.82832	1.120668	11.89427
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.587031	42.84910	32.87689	-23.1914	14.44961	14.73473	-.661702
SDEV	1.979695	3.68168	2.01485	1.7480	.74009	.56455	1.050959
%RSD	337.2388	8.592195	6.128478	7.537262	5.121883	3.831415	158.8267
#1	-2.81133	43.13789	34.20441	-21.1973	14.69426	14.20282	-.296660
#2	.0684337	39.03154	33.86779	-24.4590	15.03641	15.32706	-1.84651
#3	.9818044	46.37788	30.55847	-23.9178	13.61817	14.67431	.1580609
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.063411	243.3239	4028.577
SDEV	1.009383	2.6050	27.162
%RSD	48.91817	1.070579	.6742231
#1	3.228895	245.9155	4003.066
#2	1.490100	240.7057	4025.533
#3	1.471237	243.3506	4057.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060167-MS1 OPERATOR:
RUN TIME: 06/03/10 21:37:48
COMMENT: SDG:1005130 CLIENTID:SS50-0-1S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	42.89747	5167.228	1925.771	43.86232	1821.104	43.38309	434.1011
SDEV	.93776	60.542	10.149	.29746	12.442	.58030	4.1229
%RSD	2.186050	1.171662	.5269921	.6781582	.6831993	1.337622	.9497592
#1	41.90379	5235.997	1936.818	44.17106	1809.734	42.99366	438.5710
#2	43.76693	5143.730	1916.860	43.83827	1834.394	43.10557	433.2849
#3	43.02168	5121.957	1923.635	43.57761	1819.185	44.05004	430.4473
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	184.2206	234.5535	2151.803	L-1103.42	279.6916	453.8415	462.4384
SDEV	1.9037	.3614	24.211	4.96	2.3245	5.8350	28.5678
%RSD	1.033359	.1540658	1.125130	.4492226	.8310872	1.285685	6.177643
#1	186.3253	234.8158	2179.673	L-1097.70	282.0537	460.5249	490.8387
#2	183.7175	234.1413	2135.978	L-1106.00	279.6143	451.2382	462.7704
#3	182.6190	234.7034	2139.757	L-1106.55	277.4067	449.7613	433.7060
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	439.0724	35.28814	465.2113	415.3720	47.14767	5.906885	433.2741
SDEV	2.2950	.98588	7.1263	2.2126	1.65565	.531916	2.4447
%RSD	.5226998	2.793788	1.531836	.5326853	3.511625	9.005016	.5642478
#1	437.4769	35.22742	472.9115	413.6361	48.96306	6.394535	435.8614
#2	438.0376	34.33403	463.8740	417.8634	45.72090	5.339667	431.0026
#3	441.7026	36.30297	458.8484	414.6165	46.75904	5.986454	432.9584
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	31.02114	56.00869	42.72043	-19.3536	18.51519	871.8837	886.0485
SDEV	1.31885	1.20912	2.08673	.8612	1.15525	1.5037	5.3290
%RSD	4.251449	2.158815	4.884623	4.449641	6.239478	.1724678	.6014373
#1	31.81318	56.66754	45.11318	-20.3455	19.74149	871.1049	892.1881
#2	29.49868	54.61324	41.27804	-18.9180	17.44734	873.6171	882.6222
#3	31.75155	56.74529	41.77008	-18.7972	18.35675	870.9291	883.3351
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	897.4585	1134.834	4051.644
SDEV	6.0673	5.259	50.317
%RSD	.6760489	.4634244	1.241891
#1	892.4401	1136.583	3996.533
#2	895.7340	1138.995	4063.266
#3	904.2013	1128.923	4095.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060167-MSD1 OPERATOR:
RUN TIME: 06/03/10 21:44:55
COMMENT: SDG:1005130 CLIENTID:SS50-0-1SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	46.47696	5549.729	1968.017	45.94877	1687.539	46.72448	460.3955
SDEV	.23713	165.320	62.589	1.54466	37.496	1.71409	12.6513
%RSD	.5102040	2.978889	3.180309	3.361710	2.221916	3.668508	2.747929
#1	46.47696	5364.210	1895.755	44.20095	1644.243	44.77108	445.9200
#2	46.71409	5603.529	2003.165	46.51472	1709.178	47.42501	465.9299
#3	46.23983	5681.448	2005.132	47.13064	1709.196	47.97736	469.3365
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	197.1318	248.8892	2171.479	L-1099.35	252.0579	478.7988	455.8829
SDEV	6.0703	.9409	72.481	7.73	4.9774	13.9676	67.7402
%RSD	3.079322	.3780264	3.337849	.7029510	1.974699	2.917212	14.85913
#1	190.1742	249.7993	2088.006	L-1106.10	246.5969	462.6896	477.6463
#2	199.8743	248.9481	2207.959	L-1101.02	253.2364	487.5352	379.9358
#3	201.3470	247.9203	2218.472	L-1090.92	256.3402	486.1715	510.0665
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	463.7994	37.96095	486.1096	449.4635	47.73747	8.481272	449.2524
SDEV	13.8102	2.18805	12.4664	12.1082	1.38937	1.355684	12.4418
%RSD	2.977618	5.763956	2.564529	2.693919	2.910447	15.98444	2.769441
#1	447.9103	36.20857	471.8114	435.4828	46.94544	7.170650	435.9298
#2	472.9163	37.26092	491.8162	456.5707	49.34174	9.877920	451.2577
#3	470.5714	40.41335	494.7014	456.3371	46.92524	8.395244	460.5697
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	34.06152	51.35756	45.92677	-16.4094	20.90507	914.9945	914.1182
SDEV	1.21788	7.02169	2.40969	4.8702	2.53556	25.4434	24.5563
%RSD	3.575529	13.67217	5.246815	29.67961	12.12894	2.780719	2.686334
#1	32.85742	53.12676	43.85627	-15.2685	18.37060	886.1523	886.9141
#2	35.29273	57.32545	45.35224	-12.2109	20.90288	924.5713	920.7946
#3	34.03441	43.62047	48.57180	-21.7488	23.44173	934.2598	934.6459
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	946.7640	1209.158	4194.933
SDEV	27.7175	33.963	128.365
%RSD	2.927605	2.808838	3.060010
#1	914.8279	1170.053	4332.999
#2	960.9093	1226.143	4172.600
#3	964.5549	1231.278	4079.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005130-07 OPERATOR:
RUN TIME: 06/03/10 21:52:03
COMMENT: SDG:1005130 CLIENTID:SS50-0-1L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1355013	476.3443	4.228557	-.348390	642.6683	-.151346	-.248565
SDEV	.5291497	4.3459	.025487	.170830	5.7854	.134640	1.153479
%RSD	390.5125	.9123521	.6027393	49.03397	.9002194	88.96145	464.0555
#1	-.135501	477.8760	4.249989	-.197198	636.3149	-.303539	-1.41288
#2	-.203252	479.7170	4.235307	-.314268	644.0573	-.047756	-.226584
#3	.7452574	471.4399	4.200374	-.533706	647.6329	-.102743	.8937667
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.086350	3.399248	237.4184	L-1384.35	59.30901	1.911992	225.3282
SDEV	.595454	.243023	13.8426	2.32	3.11523	.176986	18.3503
%RSD	54.81231	7.149331	5.830485	.1673730	5.252548	9.256603	8.143792
#1	.4015738	3.318951	226.0381	L-1383.97	56.62524	1.707629	209.4486
#2	1.375109	3.206535	233.3882	L-1386.83	58.57658	2.014994	221.1183
#3	1.482367	3.672259	252.8289	L-1382.25	62.72519	2.013354	245.4175
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4064486	.3232069	2.283002	4.278922	7.138665	.4812864	4.648872
SDEV	.7578890	2.050008	.278371	.630338	1.315233	.4066622	1.397191
%RSD	186.4661	634.2710	12.19318	14.73124	18.42408	84.49485	30.05439
#1	-.329725	2.648167	2.282906	3.592100	6.158906	.6022520	3.366088
#2	.3647394	-.453980	2.004679	4.830979	8.633479	.8137407	6.137607
#3	1.184331	-1.22457	2.561420	4.413686	6.623611	.0278664	4.442923
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.831965	11.24405	5.086183	-3.09154	2.262153	4.291410	.4741060
SDEV	1.104445	2.37260	.967782	1.27412	.546212	1.372817	1.587861
%RSD	132.7514	21.10093	19.02766	41.21322	24.14568	31.98989	334.9170
#1	-2.10714	10.35405	4.061606	-1.73843	1.767965	5.022852	-1.14966
#2	-.210302	13.93296	5.984843	-3.26789	2.848631	2.707751	2.023450
#3	-.178457	9.445134	5.212101	-4.26830	2.169864	5.143625	.5485233
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.552862	51.20197	4211.977
SDEV	.512698	.73704	6.732
%RSD	33.01631	1.439479	.1598254
#1	2.019387	50.46942	4204.400
#2	1.635232	51.19307	4214.267
#3	1.003966	51.94342	4217.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060167-PS1 OPERATOR:
RUN TIME: 06/03/10 21:59:10
COMMENT: SDG:1005130 CLIENTID:SS50-0-1A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.93902	2879.111	366.0537	7.799685	1740.611	7.807378	80.01778
SDEV	.10163	41.480	1.4169	.259540	20.681	.421061	.65122
%RSD	.6802747	1.440724	.3870692	3.327565	1.188160	5.393119	.8138414
#1	14.93902	2926.919	367.6457	7.911653	1758.407	7.800522	80.25617
#2	14.83740	2852.674	365.5845	7.984446	1717.922	8.231825	80.51621
#3	15.04065	2857.740	364.9310	7.502956	1745.504	7.389786	79.28096
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	23.84630	47.40747	1333.271	L-1189.36	271.5063	32.99974	592.9681
SDEV	.65715	.15179	18.893	4.16	2.9804	.51191	13.8672
%RSD	2.755772	.3201782	1.417071	.3497517	1.097717	1.551247	2.338614
#1	24.36049	47.28970	1355.067	L-1184.87	274.7576	33.49075	578.3025
#2	24.07247	47.57877	1323.172	L-1190.15	270.8575	33.03923	605.8679
#3	23.10593	47.35393	1321.573	L-1193.08	268.9037	32.46922	594.7340
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	67.22751	9.428968	93.58897	48.36376	34.39980	8.888473	107.9878
SDEV	.88480	1.979440	1.34299	.35888	2.08150	2.346004	.9762
%RSD	1.316121	20.99318	1.434991	.7420350	6.050913	26.39377	.9039679
#1	68.16776	7.826982	94.94238	48.34714	32.79299	9.364819	107.0560
#2	67.10350	11.64184	92.25665	48.01348	36.75120	6.340852	109.0030
#3	66.41125	8.818077	93.56789	48.73066	33.65521	10.95975	107.9046
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.37234	42.79727	30.20401	-17.8395	22.22943	14.13448	-1.76605
SDEV	1.86983	3.01394	1.66043	3.2503	2.08731	1.27291	.24661
%RSD	13.98286	7.042372	5.497399	18.21993	9.389868	9.005726	13.96386
#1	13.01121	40.05270	29.16521	-18.5559	23.30126	14.66526	-1.96584
#2	15.39640	46.02275	32.11901	-20.6718	19.82395	12.68208	-1.49043
#3	11.70941	42.31635	29.32780	-14.2907	23.56308	15.05612	-1.84187
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.047995	271.8859	4048.955
SDEV	.694898	2.0839	29.306
%RSD	33.93063	.7664739	.7237947
#1	2.814476	273.0464	4020.000
#2	1.870335	269.4801	4048.266
#3	1.459175	273.1312	4078.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-01 OPERATOR:
RUN TIME: 06/03/10 22:06:18
COMMENT: SDG:1005130 CLIENTID:SS23-00-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.067751	36553.53	116.4747	-.009047	4830.477	.7647783	.2393753
SDEV	.599316	406.35	2.1674	.286873	98.971	.4339415	1.013941
%RSD	884.5903	1.111656	1.860827	3170.760	2.048878	56.74082	423.5778
#1	-.711382	36432.83	114.8646	-.328772	4752.602	.4355683	-.403486
#2	.0338753	36221.21	115.6205	.0757917	4796.979	.6022430	-.286616
#3	.4742547	37006.56	118.9390	.2258378	4941.849	1.256524	1.408227
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	30.34203	43.83157	17929.17	-536.791	848.9941	317.4778	535.4822
SDEV	.68364	.31565	334.80	10.389	14.4479	5.4991	56.6200
%RSD	2.253121	.7201523	1.867325	1.935425	1.701771	1.732117	10.57364
#1	30.36727	44.19023	17683.29	-543.927	839.4128	314.2299	488.8651
#2	29.64612	43.59603	17793.75	-541.574	841.9571	314.3764	519.0925
#3	31.01271	43.70845	18310.46	-524.871	865.6123	323.8270	598.4891
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.03918	-3.64237	43.99721	70.56612	47.74993	.6721578	18.50674
SDEV	1.81710	1.92590	1.09341	2.55362	1.44020	.8478552	1.07684
%RSD	9.544002	52.87490	2.485187	3.618757	3.016125	126.1393	5.818662
#1	17.29797	-2.30057	43.05897	68.59103	46.08722	.2579171	17.62091
#2	18.89588	-5.84910	43.73466	69.65758	48.60789	1.647498	18.19397
#3	20.92368	-2.77744	45.19799	73.44978	48.55469	.1110583	19.70535
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.000048	51.32370	45.96237	-21.5569	11.76706	16.16462	-1.49073
SDEV	.700605	.51361	1.95827	4.2275	.84607	.39391	.31027
%RSD	35.02942	1.000724	4.260588	19.61085	7.190162	2.436858	20.81301
#1	1.473286	50.83904	43.71157	-23.3320	12.03226	16.26208	-1.72297
#2	2.795161	51.27004	47.27547	-16.7313	10.82016	16.50064	-1.13836
#3	1.731696	51.86204	46.90007	-24.6075	12.44876	15.73112	-1.61085
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.571825	444.6738	4051.000
SDEV	.257289	4.6461	73.001
%RSD	10.00413	1.044843	1.802059
#1	2.475541	440.2979	4110.667
#2	2.376565	444.1737	4072.733
#3	2.863369	449.5498	3969.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-02 OPERATOR:
RUN TIME: 06/03/10 22:13:25
COMMENT: SDG:1005130 CLIENTID:SB23-1.5-2 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1580849	6195.221	14.99251	-.585211	1100.189	-.152058	.1860173
SDEV	.2379325	59.253	.15279	.143514	10.198	.022393	.1260349
%RSD	150.5093	.9564319	1.019098	24.52349	.9269304	14.72673	67.75440
#1	-.067751	6180.831	14.83775	-.429918	1090.592	-.176856	.2057287
#2	.4065040	6144.488	14.99654	-.612764	1099.078	-.133314	.3010352
#3	.1355013	6260.343	15.14325	-.712951	1110.897	-.146004	.0512881
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.71780	3.302892	1796.602	-999.576	229.1095	8.842820	511.2058
SDEV	.56155	.128476	10.187	1.248	.5025	.032628	55.6499
%RSD	4.792291	3.889789	.5670341	.1248212	.2193099	.3689810	10.88601
#1	11.16425	3.174416	1787.165	L-1000.38	228.5511	8.865772	452.8053
#2	12.28702	3.302892	1795.239	L-1000.21	229.5250	8.805469	517.1906
#3	11.70211	3.431368	1807.402	-998.139	229.2525	8.857220	563.6213
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.931411	-6.45529	8.725800	9.973383	14.73945	-.892697	15.39807
SDEV	.268510	1.35006	.260596	.230961	.58894	1.289665	.42803
%RSD	9.159740	20.91404	2.986503	2.315776	3.995643	144.4685	2.779783
#1	3.234506	-7.61302	8.511451	10.13667	15.21301	-1.52647	15.02163
#2	2.836408	-4.97232	9.015871	10.07435	14.08000	-1.74285	15.30893
#3	2.723319	-6.78054	8.650077	9.709130	14.92533	.5912315	15.86366
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.63545	23.48535	10.37016	-24.6610	10.97076	16.72766	-.538493
SDEV	1.71282	2.83162	1.68113	1.6921	1.08915	.84872	.457869
%RSD	104.7311	12.05695	16.21120	6.861584	9.927758	5.073775	85.02777
#1	.2155503	21.09536	12.27335	-25.5344	10.45660	16.61872	-.802523
#2	-3.16437	22.74799	9.749615	-25.7380	10.23387	15.93867	-.009792
#3	-1.95753	26.61271	9.087513	-22.7107	12.22181	17.62560	-.803165
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.955121	220.5382	4178.178
SDEV	.535239	3.8629	14.895
%RSD	27.37625	1.751587	.3564990
#1	1.791587	218.2827	4167.533
#2	1.520727	218.3332	4195.200
#3	2.553050	224.9986	4171.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/03/10 22:20:34
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	101.8857	46284.91	980.2393	979.1537	48309.64	969.0960	954.8993
SDEV	.8132	447.25	16.1461	10.2833	615.13	3.0181	9.8655
%RSD	.7981895	.9662868	1.647163	1.050223	1.273309	.3114388	1.033144
#1	102.4051	45815.77	975.0444	977.0337	48319.12	972.5584	954.3228
#2	102.3035	46706.44	967.3300	990.3317	48919.97	967.0217	965.0404
#3	100.9485	46332.53	998.3434	970.0956	47689.82	967.7078	945.3347
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	960.9499	999.5610	23502.46	48710.01	48471.62	967.8233	48588.25
SDEV	14.3667	3.3591	142.08	337.70	287.09	10.6480	158.13
%RSD	1.495052	.3360569	.6045174	.6932789	.5922931	1.100197	.3254520
#1	950.1077	999.0043	23443.49	48397.54	48276.97	956.4386	48460.98
#2	977.2447	1003.164	23664.53	48664.23	48801.34	977.5369	48765.28
#3	955.4974	996.5151	23399.37	49068.26	48336.54	969.4943	48538.51
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	978.0752	971.3533	965.4525	1020.495	970.0472	977.9000	1004.257
SDEV	1.9448	4.7157	9.0385	12.931	4.4190	5.4535	6.229
%RSD	.1988349	.4854732	.9361920	1.267178	.4555473	.5576709	.6202819
#1	980.3061	967.8427	963.0633	1030.063	972.5755	973.7304	998.0344
#2	976.7376	969.5040	975.4456	1025.638	972.6215	984.0715	1004.245
#3	977.1818	976.7134	957.8487	1005.783	964.9446	975.8980	1010.493
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	976.3182	957.3318	976.3924	974.6472	979.5212	988.7989	978.9799
SDEV	2.6762	9.4517	2.5882	5.2847	5.6995	3.9435	2.8762
%RSD	.2741158	.9872952	.2650802	.5422199	.5818629	.3988138	.2937951
#1	975.9440	959.5426	979.0790	972.0905	974.5466	992.7982	977.7958
#2	979.1618	965.4821	976.1827	980.7241	985.7400	988.6849	976.8848
#3	973.8487	946.9706	973.9153	971.1271	978.2772	984.9138	982.2592
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	994.2929	998.3028	4319.222
SDEV	2.7013	7.4858	26.296
%RSD	.2716798	.7498497	.6088248
#1	996.9112	998.4998	4343.667
#2	991.5157	1005.688	4322.600
#3	994.4518	990.7205	4291.400
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/03/10 22:27:43
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0451671	-6.15825	.3704306	-.035516	393.6173	.1730385	.2762271
SDEV	.1984914	7.19235	.0694638	.152136	1.0040	.2245077	.1089001
%RSD	439.4599	116.7922	18.75216	428.3553	.2550774	129.7443	39.42414
#1	.2710027	.2089334	.4329940	.0972921	392.8814	.2707294	.2695118
#2	-.033875	-4.72403	.2956797	-.002337	393.2093	.3321500	.3883294
#3	-.101626	-13.9596	.3826183	-.201503	394.7611	-.083764	.1708399
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.800396	.6156121	1.435353	-1417.04	26.94342	.5080914	62.18043
SDEV	.223960	.0463597	8.301690	.65	1.02648	.0535593	20.24636
%RSD	27.98111	7.530662	578.3727	.0460967	3.809751	10.54126	32.56066
#1	-1.02480	.6691436	-1.43340	-1416.93	27.72153	.4807019	77.89564
#2	-.799499	.5888463	10.79095	-1417.74	27.32868	.4737658	39.33319
#3	-.576886	.5888463	-5.05149	-1416.45	25.78005	.5698065	69.31247
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4759216	2.253484	.7143589	.8959187	1.154655	-.240063	.1299784
SDEV	.6195352	1.334570	.2547547	.2083129	.878151	1.261013	1.150321
%RSD	130.1759	59.22252	35.66201	23.25132	76.05309	525.2835	885.0095
#1	-.082968	3.792528	1.008378	.9008329	.1407258	1.208290	-1.03313
#2	1.142091	1.551667	.5753755	.6851921	1.672085	-.834400	1.267070
#3	.3686422	1.416256	.5593229	1.101731	1.651154	-1.09408	.1559945
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.58384	.3914235	1.532773	.5498994	-.637379	-.400244	-.066093
SDEV	1.61230	2.831640	2.729734	3.451373	.215443	.376953	.579233
%RSD	101.7973	723.4210	178.0913	627.6372	33.80142	94.18063	876.3952
#1	-1.37402	3.656645	-1.61755	4.533638	-.454847	-.063797	-.204296
#2	-.086711	-1.38928	3.197546	-1.34530	-.582264	-.329312	-.563724
#3	-3.29078	-1.09309	3.018327	-1.53864	-.875025	-.807624	.5697417
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.568563	.2683917	4127.311
SDEV	1.390286	.0484835	44.113
%RSD	88.63440	18.06446	1.068812
#1	3.144271	.2153015	4085.133
#2	1.046703	.3103228	4123.667
#3	.5147139	.2795508	4173.133
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-03 OPERATOR:
RUN TIME: 06/03/10 22:34:51
COMMENT: SDG:1005130 CLIENTID:SS24-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0677507	1807.052	15.24825	-.422697	6428.191	-.004197	.4614620
SDEV	.1173476	10.366	.10980	.121289	63.627	.144781	.4163866
%RSD	173.2051	.5736189	.7200866	28.69414	.9898102	3449.904	90.23204
#1	.1355013	1795.431	15.35663	-.551541	6356.317	.0637134	.0900088
#2	-.067751	1815.344	15.13708	-.405819	6450.938	-.170449	.3828127
#3	.1355013	1810.382	15.25104	-.310730	6477.318	.0941458	.9115646
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.221870	33.82118	1228.888	-970.552	538.9924	8.151997	583.9284
SDEV	.233795	.26502	8.085	5.298	7.2407	.066840	1.7818
%RSD	4.477219	.7835934	.6579433	.5458243	1.343385	.8199218	.3051346
#1	5.426795	34.04066	1219.599	-976.539	530.6678	8.078230	582.6680
#2	5.271604	33.89613	1232.727	-968.644	542.4806	8.169222	583.1503
#3	4.967209	33.52676	1234.339	-966.473	543.8287	8.208538	585.9669
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.900804	-5.49077	7.014166	91.37805	34.69651	.6950451	14.38773
SDEV	.831883	3.10216	.342080	2.17725	.96805	2.644963	1.09115
%RSD	28.67768	56.49773	4.876985	2.382688	2.790037	380.5455	7.583884
#1	3.598706	-1.94700	6.624049	89.18178	33.83712	3.163539	14.27443
#2	3.123456	-6.81023	7.262847	91.41661	34.50719	-2.09668	15.53112
#3	1.980251	-7.71507	7.155601	93.53577	35.74524	1.018274	13.35766
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1860814	43.54321	30.27653	-22.8676	12.45577	18.65410	-1.04046
SDEV	1.430837	2.82663	.28190	1.3364	3.44784	1.66172	2.01138
%RSD	768.9309	6.491561	.9310817	5.844240	27.68065	8.908087	193.3156
#1	.6299600	40.67653	30.41929	-22.3919	15.91921	19.11953	.9046668
#2	1.342374	43.62508	29.95181	-24.3768	9.023744	20.03348	-.913942
#3	-1.41409	46.32802	30.45848	-21.8340	12.42437	16.80929	-3.11211
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.055511	168.0401	4152.444
SDEV	.578216	2.1435	32.851
%RSD	28.13004	1.275580	.7911229
#1	2.157943	165.5677	4188.733
#2	2.575665	169.3757	4143.866
#3	1.432924	169.1769	4124.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-04 OPERATOR:
RUN TIME: 06/03/10 22:41:59
COMMENT: SDG:1005130 CLIENTID:SB24-3-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0451671	27698.06	16.59773	-.400635	699.3097	.0930327	-.518007
SDEV	.0705171	330.73	.09302	.163748	2.9275	.0726194	.370498
%RSD	156.1250	1.194053	.5604661	40.87211	.4186277	78.05790	71.52373
#1	.0677507	27322.61	16.70507	-.478744	699.3383	.1401672	-.319265
#2	.1016260	27825.27	16.54758	-.510704	702.2228	.0094044	-.289285
#3	-.033875	27946.29	16.54054	-.212458	696.3680	.1295266	-.945471
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	47.25914	3.725790	972.3888	-982.478	317.4588	6.926959	449.2007
SDEV	1.56505	.213858	23.3174	6.396	5.7203	.187311	36.7518
%RSD	3.311632	5.739943	2.397952	.6510251	1.801900	2.704088	8.181609
#1	47.02200	3.672259	982.2490	-989.182	318.5826	6.945520	451.7830
#2	48.92923	3.961329	989.1562	-981.811	322.5339	7.104298	411.2258
#3	45.82619	3.543783	945.7611	-976.442	311.2601	6.731058	484.5933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.569786	-4.87985	47.54993	12.77359	24.10657	4.430926	14.96629
SDEV	.638341	1.94949	.95318	.87235	1.66694	.716405	2.06256
%RSD	17.88178	39.94977	2.004587	6.829358	6.914862	16.16830	13.78136
#1	3.588691	-2.66838	46.58894	13.67764	26.02686	3.998390	17.26734
#2	4.198465	-6.34965	48.49510	12.70632	23.26064	5.257867	14.34775
#3	2.922202	-5.62151	47.56575	11.93683	23.03222	4.036522	13.28377
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.007732	30.55884	20.88208	-19.4552	16.35313	10.32335	-2.15512
SDEV	1.810003	2.52290	2.62746	.7815	1.20203	2.30031	.89899
%RSD	23409.83	8.255874	12.58236	4.017008	7.350483	22.28258	41.71388
#1	1.863425	31.18506	23.44833	-20.1355	16.04433	12.67553	-1.95407
#2	-.136966	27.78181	21.00049	-19.6285	17.67944	8.078678	-1.37369
#3	-1.74965	32.70965	18.19742	-18.6016	15.33563	10.21584	-3.13761
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.626513	220.3955	4092.155
SDEV	1.052559	2.6911	30.542
%RSD	64.71258	1.221014	.7463598
#1	.6613628	218.1979	4122.267
#2	2.748810	223.3968	4093.000
#3	1.469368	219.5917	4061.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-05 OPERATOR:
RUN TIME: 06/03/10 22:49:06
COMMENT: SDG:1005130 CLIENTID:SS49-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.406504	48275.66	129.4449	-.808168	3500.964	.3689078	1.848703
SDEV	.277282	440.68	.4433	.159099	16.024	.2082638	.356739
%RSD	68.21127	.9128490	.3424985	19.68644	.4576976	56.45416	19.29672
#1	-.169377	48610.69	128.9525	-.760763	3516.112	.5775893	1.856049
#2	-.711382	48439.85	129.8123	-.678158	3502.590	.3680701	2.201712
#3	-.338753	47776.46	129.5700	-.985582	3484.189	.1610641	1.488348
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	52.83928	18.18464	14139.31	511.8779	1403.552	37.23637	452.6697
SDEV	.14828	.23401	55.78	9.0749	6.370	.12454	72.0024
%RSD	.2806163	1.286868	.3945152	1.772861	.4538306	.3344493	15.90616
#1	52.89292	18.43088	14134.64	511.0219	1407.722	37.27849	508.8735
#2	52.67164	18.15788	14197.28	521.3505	1406.714	37.09624	371.5094
#3	52.95326	17.96516	14086.01	503.2613	1396.220	37.33439	477.6263
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.52582	-3.12284	67.11378	36.94547	36.59269	-.447994	14.00838
SDEV	.74812	1.91792	.34205	.17361	1.20691	1.495122	.70388
%RSD	5.531084	61.41602	.5096508	.4699107	3.298221	333.7373	5.024742
#1	13.00921	-2.75474	67.06300	36.74708	36.69265	-1.06725	14.58628
#2	14.38373	-1.41564	67.47839	37.06960	37.74650	1.257264	13.22448
#3	13.18452	-5.19814	66.79997	37.01973	35.33890	-1.53399	14.21438
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.028223	42.90268	33.43931	-19.6461	9.133902	14.73110	-2.17935
SDEV	1.131414	1.67417	2.31716	.6579	2.094941	.40467	.76243
%RSD	55.78349	3.902248	6.929443	3.348812	22.93588	2.747046	34.98423
#1	1.094127	44.54902	32.76723	-20.3958	8.579737	14.54646	-1.38048
#2	1.704263	41.20200	36.01821	-19.1648	11.45021	14.45169	-2.25838
#3	3.286280	42.95702	31.53248	-19.3777	7.371755	15.19516	-2.89919
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.197807	594.6103	4375.088
SDEV	.997452	3.7832	33.929
%RSD	45.38396	.6362569	.7754930
#1	2.048405	597.9828	4350.866
#2	3.261532	595.3286	4360.533
#3	1.283483	590.5194	4413.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-06 OPERATOR:
RUN TIME: 06/03/10 22:56:14
COMMENT: SDG:1005130 CLIENTID:SB49-11-12 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.903342	99134.72	117.9563	.7225115	2463.749	1.897744	.2580019
SDEV	.273811	1608.14	2.9636	.2778811	15.054	.333780	.4305694
%RSD	30.31089	1.622180	2.512460	38.46044	.6110149	17.58826	166.8861
#1	-.609756	97286.31	114.5394	.4055405	2449.412	1.708925	-.109075
#2	-1.15176	99905.06	119.8276	.8378119	2479.430	1.701173	.7319384
#3	-.948509	100212.8	119.5020	.9241821	2462.407	2.283135	.1511421
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	171.2086	41.13358	73526.80	8249.273	4224.054	75.52888	553.4565
SDEV	3.2434	.13658	986.11	180.483	65.285	1.32594	9.5649
%RSD	1.894410	.3320516	1.341159	2.187870	1.545561	1.755547	1.728212
#1	167.5567	41.23529	72411.41	8043.673	4149.508	74.02939	564.4655
#2	173.7538	41.18711	74282.83	8322.566	4271.041	76.54654	548.7196
#3	172.3153	40.97834	73886.17	8381.580	4251.612	76.01070	547.1844
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.85057	1.738433	140.0261	101.5680	58.70377	.4353029	14.25147
SDEV	.48610	4.679265	1.0434	1.2661	2.04902	1.651096	2.61781
%RSD	2.723177	269.1657	.7451695	1.246546	3.490448	379.2982	18.36869
#1	17.58891	6.579361	138.8397	100.1554	56.41486	2.319777	11.25588
#2	17.55135	-2.76039	140.4377	102.6003	59.32939	-.757306	15.39893
#3	18.41146	1.396328	140.8010	101.9484	60.36705	-.256562	16.09961
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	20.58785	55.47096	60.31433	-17.0895	9.181848	15.03775	-1.81876
SDEV	.61060	.92099	3.46739	7.1518	1.369309	.89384	.28991
%RSD	2.965849	1.660316	5.748873	41.84899	14.91323	5.943990	15.93981
#1	20.99888	56.48163	56.37819	-9.58183	8.258989	15.04285	-1.49043
#2	19.88622	54.67902	61.64764	-23.8223	10.75515	14.14136	-1.92641
#3	20.87845	55.25223	62.91716	-17.8644	8.531405	15.92903	-2.03945
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.195564	855.4136	4428.755
SDEV	.345026	13.3411	92.545
%RSD	10.79701	1.559604	2.089646
#1	3.574240	840.0853	4533.933
#2	3.113446	861.7485	4392.533
#3	2.899006	864.4069	4359.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-08 OPERATOR:
RUN TIME: 06/03/10 23:03:22
COMMENT: SDG:1005130 CLIENTID:SB47-14-15 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.575881	62878.24	228.2262	5.927913	4738.120	1.996570	46.87389
SDEV	.255753	330.82	1.0578	.121862	113.419	.112149	1.71345
%RSD	44.41079	.5261260	.4634826	2.055738	2.393764	5.617102	3.655448
#1	-.609756	63040.62	229.2547	6.068240	4623.133	2.106152	45.21350
#2	-.304878	62497.61	227.1413	5.848714	4741.322	2.001540	46.77227
#3	-.813008	63096.48	228.2825	5.866784	4849.904	1.882018	48.63588
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	152.6951	50.49088	105775.5	13123.59	16539.90	811.2145	685.4642
SDEV	3.4330	.49793	1752.6	188.78	145.80	15.4199	40.9988
%RSD	2.248254	.9861742	1.656859	1.438483	.8815299	1.900841	5.981167
#1	149.2973	49.92345	103940.6	13332.25	16382.67	795.6080	649.6064
#2	152.6258	50.85490	105953.9	13073.92	16566.39	811.5947	676.6244
#3	156.1622	50.69430	107432.1	12964.62	16670.64	826.4407	730.1618
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	124.3213	4.585276	158.4325	301.1600	66.34993	-2.59416	9.658488
SDEV	3.2367	1.246035	1.5881	8.7054	2.26652	3.75725	2.333222
%RSD	2.603518	27.17469	1.002399	2.890616	3.416006	144.8347	24.15722
#1	121.1373	6.008179	156.5990	292.2835	63.90719	L-6.89290	7.652532
#2	124.2183	3.689125	159.3787	301.5129	68.38486	.0626741	9.103894
#3	127.6083	4.058525	159.3199	309.6835	66.75774	-.952256	12.21904
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	29.21248	66.29700	66.37350	-11.5205	1.859596	18.22226	.0934921
SDEV	2.81248	2.16884	3.84001	5.6229	3.399917	2.65352	.3236527
%RSD	9.627663	3.271405	5.785450	48.80745	182.8309	14.56197	346.1820
#1	25.98250	67.80493	61.95848	-16.8218	-1.93864	15.16087	.0402808
#2	30.53509	67.27465	68.93642	-5.62352	2.898796	19.64303	.4404529
#3	31.11983	63.81142	68.22562	-12.1162	4.618637	19.86287	-.200258
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	5.190825	1496.038	4433.267
SDEV	1.520053	15.674	46.200
%RSD	29.28346	1.047710	1.042127
#1	3.612131	1479.959	4380.200
#2	5.315826	1496.882	4464.533
#3	6.644518	1511.273	4455.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-09 OPERATOR:
RUN TIME: 06/03/10 23:10:30
COMMENT: SDG:1005130 CLIENTID:SS47-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1016260	11621.60	111.1628	-.484352	7170.005	.3029083	2.223391
SDEV	.1016260	158.87	1.8263	.327890	88.394	.2972213	.590583
%RSD	100.0000	1.367009	1.642915	67.69666	1.232824	98.12254	26.56224
#1	.1016260	11727.93	113.0993	-.107964	7193.657	.3581318	2.023473
#2	.2032520	11438.97	109.4714	-.708052	7072.191	-.018052	1.758717
#3	-.000000	11697.88	110.9176	-.637040	7244.167	.5686449	2.887986
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	20.07493	14.90851	7780.651	-568.156	637.0212	245.5833	511.9050
SDEV	.24557	.10449	86.194	14.775	6.2917	1.9786	15.1622
%RSD	1.223262	.7008728	1.107803	2.600519	.9876799	.8056631	2.961909
#1	20.23560	15.01022	7803.697	-553.912	642.3622	246.1208	521.0409
#2	19.79225	14.80145	7685.277	-583.410	630.0856	243.3916	494.4029
#3	20.19694	14.91387	7852.980	-567.147	638.6158	247.2377	520.2712
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.79783	-7.65821	57.34543	54.54140	62.80539	-.080596	14.65875
SDEV	.72656	1.85722	1.15251	.49617	1.01445	.513917	2.17133
%RSD	3.333190	24.25141	2.009767	.9097082	1.615232	637.6447	14.81254
#1	22.49664	-7.60903	57.93324	54.62380	63.83979	-.081752	16.74657
#2	21.04638	-5.82607	56.01753	54.00919	62.76423	.4338979	14.81710
#3	21.85048	-9.53954	58.08551	54.99120	61.81214	-.593935	12.41257
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.379443	71.14763	58.63732	-20.8000	10.26074	15.98647	-.820183
SDEV	2.152942	1.60482	1.74018	3.1900	2.07755	2.12761	.478467
%RSD	63.70703	2.255616	2.967692	15.33647	20.24759	13.30880	58.33667
#1	2.150624	71.96775	59.77867	-24.0212	11.86713	18.42975	-1.03535
#2	5.865393	69.29848	59.49885	-20.7367	11.00054	14.98732	-.271908
#3	2.122311	72.17667	56.63444	-17.6421	7.914538	14.54235	-1.15329
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.772987	347.5122	4256.955
SDEV	.594245	4.8267	56.599
%RSD	33.51660	1.388924	1.329576
#1	1.138675	351.7359	4201.999
#2	2.316778	342.2512	4315.066
#3	1.863506	348.5493	4253.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-10 OPERATOR:
RUN TIME: 06/03/10 23:17:38
COMMENT: SDG:1005130 CLIENTID:SS11-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.146793	29800.31	57.94820	-.381457	820.7823	.4251425	-.571155
SDEV	.128250	98.59	.83748	.156689	7.7637	.3558778	.992895
%RSD	87.36782	.3308309	1.445220	41.07653	.9458941	83.70788	173.8397
#1	-.000000	29900.54	58.54522	-.234695	829.4319	.7377417	.4798142
#2	-.237127	29703.44	56.99087	-.363203	818.4981	.4998415	-.699856
#3	-.203252	29796.96	58.30852	-.546474	814.4169	.0378444	-1.49342
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.25142	13.02421	7046.382	-942.875	517.4058	93.47255	467.5949
SDEV	.24660	.05162	116.181	1.590	8.2281	1.17003	32.6313
%RSD	1.429423	.3963684	1.648810	.1685860	1.590255	1.251740	6.978541
#1	17.42723	12.98673	7178.203	-941.209	524.6223	94.81484	457.9188
#2	16.96953	13.00279	7002.049	-944.375	519.1494	92.66846	503.9699
#3	17.35749	13.08309	6958.895	-943.043	508.4456	92.93435	440.8958
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.425547	-5.10396	14.81641	120.3299	28.29295	-.416423	15.62250
SDEV	.399446	1.42042	.55860	2.9199	.40651	.709105	1.61233
%RSD	6.216524	27.82978	3.770121	2.426604	1.436772	170.2849	10.32057
#1	6.719042	-6.46432	15.21004	123.3976	28.16491	-.599305	13.95431
#2	5.970656	-5.21729	15.06211	120.0075	28.74806	-1.01617	17.17246
#3	6.586942	-3.63027	14.17708	117.5845	27.96588	.3662096	15.74073
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.681814	32.98720	25.94571	-26.6703	12.68794	12.95559	-.070578
SDEV	1.787285	3.28843	1.09144	2.7586	.99872	.38830	1.618596
%RSD	262.1368	9.968794	4.206645	10.34337	7.871405	2.997144	2293.337
#1	-2.70194	33.29023	25.60244	-24.9252	11.54251	12.65350	1.740525
#2	-.037384	36.11362	25.06718	-29.8506	13.37655	12.81970	-1.37586
#3	.6938878	29.55775	27.16753	-25.2350	13.14475	13.39357	-.576401
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.839458	218.5868	4165.689
SDEV	1.036550	.8051	20.914
%RSD	56.35088	.3683036	.5020509
#1	2.835008	219.4780	4142.400
#2	1.917092	217.9123	4171.800
#3	.7662728	218.3701	4182.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-11 OPERATOR:
RUN TIME: 06/03/10 23:24:46
COMMENT: SDG:1005130 CLIENTID:SB11-11-12 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.259711	69420.05	76.20462	.6367989	1347.048	1.476187	3.152964
SDEV	.249699	614.45	1.37055	.0955427	4.238	.454427	.145731
%RSD	96.14497	.8851185	1.798519	15.00359	.3146288	30.78383	4.622029
#1	-.067751	69092.69	76.41774	.7458089	1342.351	1.645555	3.320661
#2	-.542005	70128.87	77.45613	.5969911	1350.586	.9613991	3.057050
#3	-.169377	69038.59	74.73999	.5675965	1348.206	1.821608	3.081180
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	126.1733	25.34180	26889.05	5416.430	1846.077	71.69569	532.9689
SDEV	1.3675	.16246	160.36	40.151	8.644	.75180	59.0449
%RSD	1.083823	.6410599	.5963636	.7412729	.4682186	1.048595	11.07849
#1	125.3287	25.24009	26760.10	5388.088	1840.173	71.04249	501.9295
#2	127.7511	25.25615	27068.60	5462.376	1855.998	72.51746	495.9176
#3	125.4402	25.52916	26838.45	5398.826	1842.060	71.52712	601.0598
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.76230	-4.32204	129.4586	37.90441	47.62134	.0957169	12.23969
SDEV	.44992	3.63293	.4986	.48588	.78715	1.741906	2.18132
%RSD	4.180561	84.05602	.3851327	1.281852	1.652929	1819.851	17.82168
#1	10.45025	-6.58939	129.2151	37.37447	47.51982	.4508703	12.23024
#2	11.27805	-.131805	130.0321	38.00984	46.88988	1.632677	14.42572
#3	10.55862	-6.24492	129.1284	38.32892	48.45433	-1.79640	10.06311
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.53456	51.50866	45.67738	-21.2076	10.72853	17.38497	-2.13055
SDEV	.63125	1.37916	1.52766	2.7830	1.33339	1.16868	2.32851
%RSD	3.231476	2.677538	3.344460	13.12261	12.42845	6.722355	109.2918
#1	19.69545	53.07560	44.74286	-19.7857	10.55112	17.28859	.4388411
#2	18.83843	50.97138	44.84897	-19.4228	12.14175	16.26746	-4.10129
#3	20.06980	50.47900	47.44031	-24.4143	9.492729	18.59885	-2.72920
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	7.967709	896.4216	4225.911
SDEV	.799958	8.6771	19.015
%RSD	10.04000	.9679653	.4499620
#1	7.819661	887.3622	4215.133
#2	8.831350	904.6576	4214.733
#3	7.252117	897.2449	4247.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-12 OPERATOR:
RUN TIME: 06/03/10 23:31:54
COMMENT: SDG:1005130 CLIENTID:SB48-7-8 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1129178	12104.01	6.427883	-.840714	692.0606	.1997715	.7426139
SDEV	.2255531	210.97	.030189	.136320	3.0376	.3336411	.5054067
%RSD	199.7499	1.742979	.4696515	16.21481	.4389238	167.0113	68.05782
#1	-.135501	11860.40	6.416113	-.978082	693.5718	.5792987	1.167856
#2	.1693767	12226.27	6.405352	-.838593	694.0463	-.047313	.8761323
#3	.3048780	12225.36	6.462184	-.705466	688.5638	.0673287	.1838530
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.53179	2.510626	779.0749	L-1167.25	156.1213	6.980695	486.9477
SDEV	.91987	.209595	10.8171	3.42	1.6699	.071738	52.1727
%RSD	5.246844	8.348309	1.388458	.2931329	1.069599	1.027659	10.71422
#1	17.42205	2.291147	771.1948	L-1170.82	157.2806	6.976505	427.5984
#2	18.50160	2.532039	791.4077	L-1166.92	156.8760	7.054435	507.6654
#3	16.67171	2.708693	774.6222	L-1164.01	154.2073	6.911143	525.5793
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.562473	-6.94294	16.13152	21.54401	18.52412	3.384416	16.82183
SDEV	.376213	3.04366	.33674	.67421	.63141	2.421884	1.75999
%RSD	4.974741	43.83826	2.087496	3.129472	3.408591	71.55990	10.46251
#1	7.251896	-7.56830	15.91512	22.31125	18.74389	1.051760	18.57255
#2	7.454716	-3.63517	16.51950	21.27476	19.01628	5.886619	16.84022
#3	7.980807	-9.62536	15.95995	21.04603	17.81219	3.214868	15.05272
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.28909	22.56436	16.50398	-23.5025	16.80479	14.66227	-1.25570
SDEV	1.64138	2.82046	2.15764	6.3344	.94049	2.22278	.76540
%RSD	71.70462	12.49962	13.07346	26.95197	5.596567	15.15988	60.95396
#1	-3.69894	19.59515	18.31564	-28.4630	15.78411	12.47702	-1.37578
#2	-.487175	22.89017	17.07931	-16.3672	16.99391	14.58901	-1.95396
#3	-2.68116	25.20777	14.11699	-25.6773	17.63635	16.92077	-.437360
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.077064	303.7974	4124.267
SDEV	.030135	4.3012	42.423
%RSD	1.450840	1.415821	1.028608
#1	2.046479	299.2942	4167.466
#2	2.077985	304.2346	4122.667
#3	2.106728	307.8633	4082.666
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-13 OPERATOR:
RUN TIME: 06/03/10 23:39:02
COMMENT: SDG:1005130 CLIENTID:SS48-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4629629	129.5474	2.165973	-.694848	667.2502	.1964409	.3954394
SDEV	.1282500	2.3780	.020951	.191988	4.1197	.1936394	.3360614
%RSD	27.70199	1.835603	.9673001	27.63018	.6174167	98.57388	84.98431
#1	.4065040	130.7127	2.172375	-.701931	669.4153	.4163521	.4908823
#2	.6097560	131.1181	2.142567	-.499417	662.4993	.1214921	.0219799
#3	.3726287	126.8116	2.182976	-.883197	669.8359	.0514784	.6734560
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.496175	1.220518	185.2837	L-1368.79	78.88680	4.260166	568.2101
SDEV	.320508	.314016	8.5624	2.56	1.11782	.099909	71.7157
%RSD	9.167383	25.72807	4.621263	.1870749	1.416995	2.345187	12.62133
#1	3.858961	1.568472	191.9258	L-1365.84	79.91523	4.295114	626.7842
#2	3.378142	.9582137	188.3052	L-1370.49	77.69710	4.147478	589.6177
#3	3.251421	1.134867	175.6202	L-1370.03	79.04808	4.337906	488.2285
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.413291	-5.86244	1.935067	12.11699	8.083708	-1.07831	13.90116
SDEV	.353037	2.07167	.356884	.56244	1.604864	.42698	.56363
%RSD	24.97978	35.33796	18.44300	4.641786	19.85307	39.59728	4.054529
#1	1.594642	-7.62688	1.907790	11.50317	6.337904	-1.23626	14.45441
#2	1.006437	-3.58134	2.304807	12.24016	8.418358	-1.40381	13.92137
#3	1.638795	-6.37910	1.592603	12.60765	9.494862	-.594855	13.32770
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.29398	18.42706	2.916877	-25.7599	11.24109	18.91826	-.688973
SDEV	.36435	2.12864	1.375403	1.2192	.36483	.76179	.823243
%RSD	15.88280	11.55169	47.15328	4.732838	3.245506	4.026766	119.4884
#1	-2.70317	16.30234	1.360228	-25.3916	10.82039	19.62834	-1.37456
#2	-2.17406	18.41926	3.422502	-27.1208	11.43250	18.11359	-.916453
#3	-2.00470	20.55959	3.967902	-24.7673	11.47038	19.01286	.2240907
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.759331	195.8041	4154.489
SDEV	.622548	2.3819	29.140
%RSD	35.38550	1.216492	.7014216
#1	2.464160	198.2575	4122.600
#2	1.284529	193.5008	4161.133
#3	1.529305	195.6539	4179.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 06/03/10 23:46:10
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	99.78545	46085.25	982.5414	953.9297	46899.18	949.4257	942.7462
SDEV	1.23556	363.86	9.2417	11.1502	740.62	4.2387	2.2573
%RSD	1.238218	.7895307	.9405891	1.168868	1.579168	.4464532	.2394386
#1	101.1856	46500.75	988.1101	966.5639	47726.44	953.9034	943.0412
#2	99.32249	45931.50	971.8735	949.7595	46673.29	945.4752	940.3560
#3	98.84823	45823.52	987.6407	945.4657	46297.81	948.8985	944.8415
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	946.3999	987.6074	23064.56	49254.31	48146.54	954.4915	48493.19
SDEV	10.3836	5.7748	66.35	411.88	108.81	9.8529	65.33
%RSD	1.097164	.5847275	.2876654	.8362336	.2259981	1.032266	.1347147
#1	950.5642	993.7689	23115.02	48805.58	48084.21	955.3491	48496.63
#2	934.5806	986.7349	22989.41	49342.19	48083.21	944.2378	48426.22
#3	954.0550	982.3185	23089.27	49615.16	48272.18	963.8876	48556.74
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	961.6054	959.9268	954.4695	Q984.4584	957.3669	975.4709	999.5986
SDEV	2.2581	3.4335	7.1204	8.9138	.3830	2.7933	6.0750
%RSD	.2348230	.3576880	.7460064	.9054522	.0400049	.2863550	.6077407
#1	963.8680	963.8898	960.0853	990.0783	957.6026	972.2724	1004.202
#2	959.3519	958.0483	956.8625	989.1162	957.5731	976.7100	992.7131
#3	961.5963	957.8424	946.4609	Q974.1806	956.9250	977.4304	1001.880
ERRORS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	966.5378	947.1562	962.4612	967.7873	979.3043	971.2822	971.3149
SDEV	3.1757	7.8386	3.3604	13.0659	6.2127	3.1441	1.1629
%RSD	.3285634	.8275951	.3491429	1.350080	.6343975	.3237054	.1197203
#1	965.5556	949.8791	961.4557	960.1133	978.3401	974.9126	970.3707
#2	963.9692	953.2703	959.7184	982.8737	973.6301	969.4420	970.9602
#3	970.0885	938.3193	966.2096	960.3748	985.9427	969.4921	972.6138
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	979.7911	988.6718	4265.066
SDEV	2.8828	9.7755	38.567
%RSD	.2942226	.9887462	.9042541
#1	983.1195	999.6318	4303.533
#2	978.1707	980.8534	4265.267
#3	978.0831	985.5303	4226.400
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 06/03/10 23:53:23
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.033875	-25.3169	.2466747	-.269594	373.1810	.3256070	.2633708
SDEV	.058674	6.3649	.0333573	.181777	1.5580	.2087001	.8925700
%RSD	173.2050	25.14097	13.52281	67.42645	.4174854	64.09571	338.9024
#1	-.101626	-18.7688	.2847484	-.059860	372.4344	.0974185	.0975322
#2	-.000000	-31.4813	.2225874	-.367247	372.1368	.3725950	-.534649
#3	-.000000	-25.7007	.2326882	-.381673	374.9717	.5068075	1.227229
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.539253	.2997765	-1.99489	-1433.42	2.404244	.2618228	49.85593
SDEV	.171038	.1699573	4.29707	1.96	2.053875	.1006544	44.15315
%RSD	31.71761	56.69467	215.4041	.1363931	85.42706	38.44372	88.56147
#1	-.352343	.2355389	-5.65319	-1435.68	.1362378	.1635003	59.72793
#2	-.687958	.1713007	-3.06875	-1432.35	2.937819	.2573107	88.23747
#3	-.577458	.4924899	2.737271	-1432.24	4.138674	.3646574	1.602409
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.108891	.1906172	.1023962	.6175684	1.103420	-.374311	-.463222
SDEV	.714638	.6737745	.2174011	.3260123	1.195750	1.507768	1.440879
%RSD	656.2877	353.4700	212.3136	52.78966	108.3676	402.8113	311.0559
#1	-.806389	-.315417	.1575082	.9050805	1.136642	-2.06517	-.904892
#2	.6217343	-.068146	-.137257	.2633685	-.108595	.8304528	-1.63157
#3	-.142018	.9554147	.2869375	.6842561	2.282212	.1117794	1.146796
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.474826	.9288343	1.187650	-.689356	-.219956	.8115611	1.126841
SDEV	.746379	1.022569	2.302472	4.057968	.672282	.7704561	2.334741
%RSD	157.1899	110.0916	193.8678	588.6605	305.6432	94.93507	207.1935
#1	-.312171	.8271671	1.288168	-4.71771	-.743862	1.638743	.1597265
#2	.1768122	1.998439	-1.16343	3.397590	-.454093	.1143682	3.789740
#3	-1.28912	-.039103	3.438218	-.747947	.5380861	.6815719	-.568944
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.744463	.2061127	4120.089
SDEV	.956395	.1079689	59.021
%RSD	54.82460	52.38342	1.432522
#1	2.783839	.0841575	4052.400
#2	.9015658	.2446745	4160.800
#3	1.547983	.2895061	4147.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-14 OPERATOR:
RUN TIME: 06/04/10 00:00:32
COMMENT: SDG:1005130 CLIENTID:SS18-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.011292	25444.88	62.52307	-.717395	1005.893	.4838516	-.367904
SDEV	.160089	416.01	.88892	.361487	12.054	.2087334	.919403
%RSD	1417.744	1.634930	1.421742	50.38882	1.198363	43.13997	249.9029
#1	-.067751	25803.13	63.27386	-.359980	1017.874	.5168679	.5795140
#2	-.135501	24988.62	61.54153	-1.08282	993.7664	.2605777	-1.25646
#3	.1693767	25542.88	62.75383	-.709384	1006.038	.6741092	-.426763
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	23.72940	7.997602	9517.196	-919.019	617.2564	45.27317	493.2672
SDEV	1.05191	.329643	228.415	7.257	15.1407	1.41206	75.3089
%RSD	4.432957	4.121774	2.400020	.7896479	2.452901	3.118982	15.26736
#1	24.86844	7.911952	9698.120	-913.193	632.9520	46.20451	420.5882
#2	22.79455	8.361616	9260.532	-927.148	602.7396	43.64846	570.9559
#3	23.52520	7.719237	9592.936	-916.716	616.0776	45.96655	488.2576
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.397317	-4.12546	32.50899	28.03326	29.68237	-1.19097	13.47666
SDEV	.149140	1.69667	.74367	.62252	1.20277	.27319	3.18525
%RSD	2.016134	41.12685	2.287593	2.220662	4.052142	22.93815	23.63531
#1	7.529878	-4.31598	32.73658	28.75014	30.15238	-1.18922	14.06833
#2	7.235835	-2.34157	31.67812	27.62899	28.31556	-1.46502	16.32460
#3	7.426239	-5.71883	33.11228	27.72066	30.57917	-.918657	10.03706
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.867879	34.54277	27.25050	-22.9983	9.693454	14.14809	-.660343
SDEV	3.337861	1.26923	1.20399	1.2964	.397231	1.83299	.439651
%RSD	178.6979	3.674358	4.418244	5.637061	4.097932	12.95573	66.57924
#1	4.796983	34.67668	27.89032	-22.1116	9.253372	12.03765	-.910058
#2	2.572792	33.21190	25.86168	-24.4862	10.02547	15.06404	-.152699
#3	-1.76614	35.73973	27.99951	-22.3970	9.801519	15.34257	-.918271
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.172570	276.3390	4193.644
SDEV	.547500	2.5645	85.497
%RSD	17.25729	.9280101	2.038731
#1	3.760231	278.3111	4117.866
#2	3.080600	273.4400	4286.333
#3	2.676880	277.2659	4176.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-15 OPERATOR:
RUN TIME: 06/04/10 00:07:39
COMMENT: SDG:1005130 CLIENTID:SB18-12-13 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2935862	81443.70	83.06351	.0295082	771.2241	1.670702	2.870078
SDEV	.3255089	1608.98	.60926	.1719661	3.2647	.340062	.613785
%RSD	110.8734	1.975572	.7334917	582.7738	.4233172	20.35445	21.38564
#1	.6436314	80607.58	82.36222	-.113410	771.9443	1.772738	3.097175
#2	-.000000	83298.59	83.46254	.2203539	774.0686	1.948064	3.337951
#3	.2371273	80424.91	83.36579	-.018420	767.6594	1.291303	2.175107
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	81.07660	12.17306	16935.90	2388.517	2264.393	36.83834	526.8729
SDEV	1.23280	.18613	222.27	65.980	38.455	.56697	84.9184
%RSD	1.520537	1.529060	1.312437	2.762390	1.698233	1.539089	16.11744
#1	80.35265	12.19982	16783.62	2337.941	2245.675	36.59582	515.9994
#2	82.50005	12.34436	17190.96	2463.150	2308.623	37.48624	447.9149
#3	80.37711	11.97499	16833.11	2364.459	2238.881	36.43296	616.7043
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.18698	-4.97066	87.48174	36.95710	38.23040	-1.25164	15.23801
SDEV	.67409	.10092	1.84975	.17120	.33108	1.42978	.18919
%RSD	5.531210	2.030387	2.114444	.4632449	.8660252	114.2325	1.241569
#1	12.02378	-4.99717	87.09616	36.78873	38.36824	-1.38879	15.32103
#2	12.92768	-5.05568	89.49389	37.13100	37.85266	.2417724	15.37149
#3	11.60947	-4.85912	85.85516	36.95157	38.47029	-2.60790	15.02150
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.465541	41.05254	36.81813	-21.8491	9.028699	16.22865	-1.08317
SDEV	2.368132	3.15131	1.10765	4.7199	4.249588	2.02482	2.04289
%RSD	508.6841	7.676293	3.008448	21.60249	47.06755	12.47683	188.6026
#1	-2.67721	43.29318	35.90615	-24.8720	10.33225	14.54340	-2.53843
#2	-.752344	37.44920	38.05073	-24.2650	12.47382	15.66777	-1.96336
#3	2.032932	42.41525	36.49752	-16.4102	4.280027	18.47479	1.252274
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.343741	650.4249	4109.889
SDEV	.759134	7.1257	69.314
%RSD	32.38983	1.095540	1.686529
#1	3.127854	648.6137	4104.667
#2	1.612333	658.2814	4043.333
#3	2.291035	644.3797	4181.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-16 OPERATOR:
RUN TIME: 06/04/10 00:14:47
COMMENT: SDG:1005130 CLIENTID:SS25-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1355013	13743.99	45.03043	-.733272	1414.331	.2881979	1.003303
SDEV	.1552363	32.49	.21774	.109808	10.072	.1463770	.470188
%RSD	114.5644	.2364039	.4835309	14.97501	.7121291	50.79044	46.86403
#1	.3048780	13712.58	45.17137	-.628879	1405.705	.2141706	.4646674
#2	.1016260	13777.46	45.14025	-.723145	1411.889	.4568025	1.213624
#3	-.000000	13741.93	44.77965	-.847792	1425.400	.1936206	1.331618
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.28187	8.179608	6674.053	L-1000.73	616.9863	53.68332	540.5605
SDEV	.53080	.033430	78.805	2.58	10.6716	.71204	27.0818
%RSD	3.473373	.4087002	1.180764	.2574494	1.729638	1.326372	5.009940
#1	15.13092	8.168903	6583.474	L-1002.38	604.8138	52.86605	514.0232
#2	14.84290	8.152843	6726.877	-997.758	624.7330	54.01419	539.5026
#3	15.87180	8.217080	6711.809	L-1002.04	621.4120	54.16973	568.1557
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.466747	-5.18193	22.20974	61.11963	34.19767	-1.11625	14.42836
SDEV	.678501	1.16770	.60991	.71569	1.36427	.92005	.64216
%RSD	10.49216	22.53408	2.746131	1.170959	3.989371	82.42355	4.450685
#1	6.796809	-5.60166	21.53277	60.33437	33.88977	-.782696	15.09665
#2	5.686364	-6.08174	22.71637	61.28925	35.68957	-.409499	14.37244
#3	6.917068	-3.86238	22.38008	61.73527	33.01365	-2.15656	13.81599
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.451424	41.56532	30.51616	-21.6957	9.155211	14.39019	-2.27781
SDEV	3.452004	1.18032	2.18171	1.5067	.627152	.92857	.49046
%RSD	237.8357	2.839669	7.149363	6.944859	6.850219	6.452812	21.53225
#1	.3864456	42.92121	29.37763	-21.1468	9.381235	14.86683	-2.61427
#2	-1.34260	41.00704	33.03162	-20.5404	9.638020	13.32009	-2.50410
#3	5.310427	40.76771	29.13923	-23.4000	8.446376	14.98364	-1.71505
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.531030	280.0370	4250.800
SDEV	.586018	2.3826	6.069
%RSD	23.15333	.8508014	.1427733
#1	2.738075	277.8730	4252.733
#2	1.869596	279.6479	4243.999
#3	2.985421	282.5902	4255.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-17 OPERATOR:
RUN TIME: 06/04/10 00:21:55
COMMENT: SDG:1005130 CLIENTID:SB25-3-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.045167	19796.13	49.07657	-.816834	1160.059	.5834691	1.086539
SDEV	.085251	23.52	.54203	.008522	9.389	.2019421	.637732
%RSD	188.7458	.1188056	1.104449	1.043246	.8093133	34.61058	58.69388
#1	.0338753	19790.70	48.93517	-.814170	1169.793	.8024671	1.301905
#2	-.135501	19821.89	48.61926	-.826369	1159.322	.5433280	1.588704
#3	-.033875	19775.81	49.67529	-.809963	1151.060	.4046123	.3690076
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	29.83242	7.023329	12810.09	-551.369	948.5726	45.57753	508.8176
SDEV	.23405	.234012	104.87	3.076	7.9123	.38928	30.6074
%RSD	.7845408	3.331931	.8186255	.5579556	.8341291	.8541113	6.015388
#1	30.09767	7.285633	12881.27	-554.013	956.0771	45.92586	523.4577
#2	29.74461	6.948384	12859.33	-552.100	949.3331	45.64943	473.6397
#3	29.65497	6.835969	12689.66	-547.992	940.3074	45.15731	529.3554
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.570038	-5.81649	43.66066	27.94038	25.87653	-1.64380	15.75475
SDEV	.423023	1.26890	1.02300	.28201	.93427	2.88421	1.38384
%RSD	4.936070	21.81554	2.343074	1.009335	3.610492	175.4603	8.783629
#1	8.891231	-6.25700	44.51501	28.17040	26.90473	-1.74386	14.16448
#2	8.090734	-4.38604	43.93996	28.02499	25.07966	1.289145	16.41462
#3	8.728148	-6.80642	42.52702	27.62575	25.64521	-4.47667	16.68514
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.919836	29.13513	24.24645	-24.7504	9.889322	15.43601	-2.43579
SDEV	.114819	1.87912	.62856	3.7704	2.462311	.57711	1.13923
%RSD	3.932392	6.449681	2.592376	15.23378	24.89869	3.738743	46.77026
#1	2.866710	31.30024	24.70707	-25.3638	10.04553	15.25624	-2.84426
#2	3.051598	28.17637	23.53038	-20.7109	12.26981	16.08161	-1.14865
#3	2.841201	27.92877	24.50189	-28.1766	7.352623	14.97018	-3.31448
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	5.553247	348.0804	4209.022
SDEV	.531161	2.8554	24.503
%RSD	9.564871	.8203338	.5821430
#1	5.887322	349.3649	4237.267
#2	4.940757	350.0681	4196.333
#3	5.831660	344.8084	4193.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-18 OPERATOR:
RUN TIME: 06/04/10 00:29:03
COMMENT: SDG:1005130 CLIENTID:SS08-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.338753	63503.50	118.7227	.1315169	14872.12	1.623783	.1692567
SDEV	.289431	1039.14	2.5048	.1946894	290.07	.361274	.8819501
%RSD	85.44003	1.636350	2.109804	148.0337	1.950420	22.24888	521.0725
#1	-.033875	63941.07	121.2653	.3278197	14991.13	2.026794	.7043762
#2	-.609756	62317.14	116.2575	-.061518	14541.48	1.328977	-.848684
#3	-.372629	64252.30	118.6454	.1282489	15083.76	1.515577	.6520777
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	92.26118	26.31607	42199.52	2696.596	2510.706	75.40070	636.8387
SDEV	2.62583	21.27907	826.43	44.105	46.998	1.40255	106.4923
%RSD	2.846080	80.85959	1.958397	1.635582	1.871903	1.860128	16.72202
#1	94.33611	14.01454	42768.29	2721.630	2540.591	76.55163	749.5997
#2	89.30904	50.88701	41251.53	2645.670	2456.533	73.83849	537.9808
#3	93.13838	14.04666	42578.73	2722.487	2534.993	75.81200	622.9356
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.30702	-1.56795	133.8931	48.26058	57.52470	.8980508	11.23060
SDEV	14.33768	1.75699	3.4384	2.75123	.51777	.4997966	.53418
%RSD	67.29089	112.0570	2.568045	5.700791	.9000801	55.65349	4.756460
#1	12.85729	-1.13710	135.2799	45.88428	57.06781	1.170604	10.78871
#2	37.86155	-3.50029	129.9778	51.27470	57.41920	.3212261	11.82423
#3	13.20222	-.066456	136.4215	47.62275	58.08709	1.202323	11.07886
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	24.32301	61.07973	55.74667	-20.9418	11.79878	14.98961	-1.15099
SDEV	3.76490	2.34767	1.88683	5.0760	2.98255	2.70697	1.80367
%RSD	15.47876	3.843609	3.384649	24.23873	25.27842	18.05895	156.7053
#1	20.04131	62.02197	54.59122	-17.8714	10.67447	18.10458	.6574561
#2	25.81215	62.80991	54.72476	-18.1532	9.541799	13.20764	-1.16060
#3	27.11558	58.40733	57.92403	-26.8008	15.18007	13.65661	-2.94984
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	9.046400	483.5500	4281.244
SDEV	.646494	5.0222	62.367
%RSD	7.146420	1.038615	1.456746
#1	8.916880	485.0908	4230.866
#2	9.747849	477.9378	4350.999
#3	8.474472	487.6212	4261.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-19 OPERATOR:
RUN TIME: 06/04/10 00:36:11
COMMENT: SDG:1005130 CLIENTID:SB08-6-7 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.124210	77520.17	121.8469	.0308293	1427.507	1.668627	.0251686
SDEV	.217788	735.62	1.0849	.2459391	13.693	.202611	.1720916
%RSD	175.3391	.9489374	.8903949	797.7449	.9592237	12.14238	683.7556
#1	-.372629	76837.95	122.0103	.2680793	1412.113	1.481340	.1644921
#2	-.033875	77423.05	120.6895	-.222964	1438.327	1.883696	.0782146
#3	.0338753	78299.53	122.8408	.0473722	1432.083	1.640846	-.167201
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	120.3615	15.44383	48477.29	4100.934	3079.492	48.29257	548.9294
SDEV	1.0119	.21062	138.02	81.605	15.055	.06096	12.5952
%RSD	.8407476	1.363765	.2847152	1.989920	.4888641	.1262321	2.294506
#1	120.7070	15.47595	48390.80	4111.751	3072.666	48.27382	543.0299
#2	121.1555	15.63654	48404.62	4014.459	3069.061	48.24318	563.3916
#3	119.2221	15.21900	48636.47	4176.591	3096.751	48.36070	540.3667
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.80285	.0309296	174.2797	37.55779	63.27520	-1.95453	14.63515
SDEV	.45688	.6787388	.3002	.83053	1.31875	1.72068	1.86645
%RSD	4.229212	2194.466	.1722286	2.211331	2.084157	88.03535	12.75317
#1	10.58178	-.154457	174.6169	36.59936	62.71954	-1.94097	12.48411
#2	11.32822	.7831001	174.0418	38.00812	62.32520	-.240675	15.82636
#3	10.49857	-.535854	174.1803	38.06588	64.78085	-3.68196	15.59498
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.48412	64.13999	62.84018	-21.6320	7.866540	14.89459	-.384486
SDEV	3.18549	3.20498	1.95784	4.6420	.526410	1.04174	.751885
%RSD	9.806288	4.996853	3.115583	21.45903	6.691758	6.994089	195.5561
#1	30.43216	66.70966	60.72421	-20.5998	7.371573	15.87405	-1.03307
#2	30.86635	60.54875	63.20886	-17.5929	8.419577	15.00961	.4396415
#3	36.15385	65.16157	64.58746	-26.7032	7.808470	13.80012	-.560028
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.50754	751.1684	4169.977
SDEV	.14270	3.8554	51.093
%RSD	1.358071	.5132530	1.225258
#1	10.55421	746.7581	4183.333
#2	10.34734	753.8987	4213.066
#3	10.62105	752.8484	4113.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005130-20 OPERATOR:
RUN TIME: 06/04/10 00:43:19
COMMENT: SDG:1005130 CLIENTID:SS05-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.587173	21035.62	100.2042	.5459451	16642.69	.1737016	.9959016
SDEV	.141034	224.36	.6780	.3896923	274.35	.3573315	.4641495
%RSD	24.01923	1.066585	.6765826	71.37939	1.648454	205.7158	46.60596
#1	-.745257	21262.12	100.8252	.8799906	16329.27	-.223017	.4611304
#2	-.542005	21031.26	100.3065	.6400168	16759.53	.4702787	1.294103
#3	-.474255	20813.46	99.48094	.1178280	16839.29	.2738427	1.232471
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.25748	6.659315	7295.340	-859.310	857.1742	202.8626	548.3168
SDEV	.51392	.224832	60.472	16.015	9.1629	2.0059	23.8853
%RSD	3.368342	3.376211	.8289188	1.863664	1.068970	.9888081	4.356111
#1	14.68213	6.562958	7240.604	-843.422	855.8962	201.4366	522.1669
#2	15.41930	6.498721	7360.256	-859.058	866.9090	205.1563	568.9840
#3	15.67103	6.916266	7285.161	-875.449	848.7173	201.9950	553.7997
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.394314	-5.29739	19.58913	20.23780	36.29381	-2.44952	15.73351
SDEV	.689470	.67420	.15573	.96702	.88684	1.66029	2.15119
%RSD	8.213532	12.72696	.7949991	4.778294	2.443510	67.78017	13.67269
#1	8.175442	-4.76997	19.41205	19.20932	35.54798	-1.52315	13.32756
#2	7.840848	-6.05699	19.70478	20.37547	36.05902	-1.45911	16.40151
#3	9.166653	-5.06520	19.65057	21.12861	37.27442	-4.36630	17.47146
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.615495	42.51358	33.18527	-24.8614	8.736654	13.26823	-1.00811
SDEV	3.108298	1.61077	2.13381	3.0536	.975045	.25411	1.69828
%RSD	192.4053	3.788829	6.429998	12.28261	11.16039	1.915150	168.4623
#1	.6839379	43.85329	31.39817	-23.3875	9.389625	13.29007	-2.91790
#2	-.920504	42.96105	32.60985	-22.8242	9.204482	13.51071	-.438778
#3	5.083051	40.72638	35.54779	-28.3723	7.615855	13.00391	.3323605
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.491682	199.3651	4106.667
SDEV	.531045	1.3737	89.186
%RSD	35.60041	.6890186	2.171729
#1	1.230918	199.4823	4023.333
#2	2.102699	197.9367	4095.933
#3	1.141429	200.6765	4200.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060169-BLK1 OPERATOR:
RUN TIME: 06/04/10 00:50:27
COMMENT: SDG:1005208 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.259711	-39.4516	-.011651	-1.12192	414.8666	-.073555	.7294565
SDEV	.576213	2.3612	.029004	.05591	.5342	.344675	.2735434
%RSD	221.8670	5.985139	248.9494	4.983720	.1287724	468.5940	37.49961
#1	-.033875	-40.5266	.0174569	-1.11061	415.2446	.3160330	.9796431
#2	-.914634	-36.7442	-.040550	-1.07253	414.2554	-.338826	.4373873
#3	.1693767	-41.0842	-.011858	-1.18263	415.0998	-.197873	.7713393
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1274233	.8565037	26.32595	-1420.43	34.17979	.6087948	206.8969
SDEV	.3717321	.3888684	5.70163	1.15	.71436	.0573895	26.8547
%RSD	291.7301	45.40183	21.65782	.0806520	2.090011	9.426746	12.97973
#1	.4819304	1.134867	26.33603	-1421.37	34.97065	.5425995	233.2000
#2	-.259421	.4121926	20.61929	-1419.15	33.98737	.6445758	179.5227
#3	.1597606	1.022451	32.02253	-1420.76	33.58135	.6392090	207.9679
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5857198	-1.33543	-.093329	4.993105	H3.163521	-1.30462	4.719532
SDEV	.4940691	2.92793	.413170	.417456	.571658	1.37323	.266706
%RSD	84.35247	219.2500	442.7007	8.360645	18.07032	105.2587	5.651117
#1	.3000334	.4076051	-.001446	5.339066	H3.752728	-1.71505	4.712117
#2	.3009044	-4.71577	-.544706	4.529431	H3.126638	.2270222	4.456611
#3	1.156221	.3018664	.2661637	5.110818	2.611198	-2.42584	4.989869
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.488347	3.494118	2.995675	-11.9566	4.010592	.2240220	.0588226
SDEV	1.723401	2.696344	1.513963	3.4405	.346794	1.645077	.8667842
%RSD	352.9053	77.16811	50.53830	28.77527	8.646957	734.3374	1473.556
#1	.3682513	5.195786	3.029481	-12.8568	3.844667	1.033640	1.057429
#2	-2.47221	.3852940	4.492453	-8.15546	4.409177	-1.66896	-.382131
#3	.6389221	4.901272	1.465092	-14.8576	3.777931	1.307388	-.498830
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.6738218	.0601064	4319.066
SDEV	.8225367	.0719792	14.334
%RSD	122.0704	119.7529	.3318698
#1	.4697468	-.017447	4311.466
#2	1.579185	.1247701	4310.133
#3	-.027466	.0729958	4335.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060169-BS1 OPERATOR:
RUN TIME: 06/04/10 00:57:35
COMMENT: SDG:1005208 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	910.3771	18943.36	19942.95	471.8255	45210.26	460.4019	4588.023
SDEV	3.4812	213.25	330.16	5.4445	633.62	7.5692	82.977
%RSD	.3823871	1.125737	1.655533	1.153920	1.401500	1.644039	1.808555
#1	906.5040	18712.84	20295.99	467.6221	44624.60	461.3608	4564.182
#2	911.3821	18983.62	19641.81	469.8785	45123.32	452.3990	4519.578
#3	913.2452	19133.60	19891.06	477.9758	45882.86	467.4460	4680.311
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	24000.00	24000.00	600.0000	60000.00	600.0000	6000.000
LOW	800.0000	16000.00	16000.00	400.0000	40000.00	400.0000	4000.000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	926.4356	2429.344	8950.496	51784.17	46803.56	1395.068	49306.26
SDEV	39.3474	7.375	205.661	450.71	908.91	42.461	359.83
%RSD	4.247185	.3035837	2.297757	.8703603	1.941959	3.043654	.7297865
#1	896.6640	2424.376	8837.266	51825.96	46341.79	1368.929	49101.10
#2	911.5983	2425.837	8826.334	51314.03	46218.24	1372.214	49095.94
#3	971.0444	2437.818	9187.889	52212.54	47850.65	1444.061	49721.75
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	3000.000	12000.00	60000.00	60000.00	1800.000	60000.00
LOW	800.0000	2000.000	8000.000	40000.00	40000.00	1200.000	40000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3707.589	935.1980	4775.324	1685.973	280.4617	449.2548	5829.017
SDEV	48.474	8.4015	136.991	30.812	2.8213	5.1898	55.894
%RSD	1.307434	.8983612	2.868723	1.827573	1.005943	1.155195	.9588847
#1	3714.306	930.3951	4631.244	1680.305	280.4118	450.2710	5845.067
#2	3656.107	930.2998	4790.822	1658.388	277.6656	443.6321	5766.854
#3	3752.355	944.8990	4903.907	1719.226	283.3075	453.8613	5875.128
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4800.000	1200.000	6000.000	2400.000	360.0000	600.0000	7200.000
LOW	3200.000	800.0000	4000.000	1600.000	240.0000	400.0000	4800.000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	931.4338	278.1440	281.6146	438.3510	454.6955	940.4224	966.3373
SDEV	13.7666	6.8028	2.2418	9.6695	5.5322	13.9339	11.7828
%RSD	1.478004	2.445798	.7960415	2.205878	1.216687	1.481668	1.219329
#1	929.7586	273.8950	283.6615	431.9295	459.4249	936.9374	969.1494
#2	918.5815	274.5468	279.2189	433.6514	448.6119	928.5617	953.4029
#3	945.9614	285.9902	281.9635	449.4720	456.0496	955.7680	976.4597
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	1200.000					1205.000	1205.000
LOW	800.0000					795.0000	795.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	953.1581	985.2825	3994.311
SDEV	15.2573	12.0449	20.394
%RSD	1.600706	1.222479	.5105808
#1	959.0048	971.4221	3989.333
#2	935.8422	993.2101	4016.733
#3	964.6274	991.2154	3976.867
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	1205.000	1205.000	
LOW	795.0000	795.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060169-BSD1 OPERATOR:
RUN TIME: 06/04/10 01:04:43
COMMENT: SDG:1005208 CLIENTID:LCSWD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	974.6725	18525.85	19321.97	488.4821	47988.88	481.4025	4740.880
SDEV	3.2510	144.43	128.28	4.3135	481.56	3.5530	36.405
%RSD	.3335504	.7796256	.6639028	.8830496	1.003491	.7380422	.7679009
#1	972.6287	18359.10	19396.28	483.5036	47433.82	477.5258	4714.742
#2	972.9674	18611.37	19395.79	490.8373	48237.49	484.5035	4725.436
#3	978.4213	18607.10	19173.85	491.1052	48295.33	482.1782	4782.461
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	24000.00	24000.00	600.0000	60000.00	600.0000	6000.000
LOW	800.0000	16000.00	16000.00	400.0000	40000.00	400.0000	4000.000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	962.2380	2494.941	9245.398	48985.12	47091.90	1437.699	48133.85
SDEV	3.3610	7.102	34.494	344.99	269.62	3.647	212.52
%RSD	.3492858	.2846605	.3730954	.7042818	.5725374	.2536741	.4415275
#1	965.3542	2487.056	9207.022	48587.46	46793.33	1434.809	47895.10
#2	958.6767	2496.933	9255.352	49204.45	47164.80	1436.493	48302.36
#3	962.6832	2500.835	9273.822	49163.45	47317.57	1441.797	48204.09
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	3000.000	12000.00	60000.00	60000.00	1800.000	60000.00
LOW	800.0000	2000.000	8000.000	40000.00	40000.00	1200.000	40000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3828.456	940.8896	4881.627	1820.404	284.7360	448.7027	5858.290
SDEV	19.999	2.6814	26.807	21.403	3.8064	2.6066	34.139
%RSD	.5223824	.2849828	.5491497	1.175716	1.336817	.5809200	.5827400
#1	3805.557	941.2624	4856.425	1796.635	280.4293	445.6981	5841.697
#2	3842.491	943.3651	4878.660	1826.428	286.1290	450.0511	5897.553
#3	3837.321	938.0414	4909.793	1838.150	287.6497	450.3589	5835.619
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4800.000	1200.000	6000.000	2400.000	360.0000	600.0000	7200.000
LOW	3200.000	800.0000	4000.000	1600.000	240.0000	400.0000	4800.000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	940.8660	284.7127	284.7442	442.4950	451.7990	966.7371	959.9998
SDEV	6.1568	3.6033	3.9423	3.2039	3.4724	9.6061	7.8404
%RSD	.6543771	1.265607	1.384490	.7240603	.7685690	.9936653	.8167036
#1	933.8062	280.5550	280.3633	440.5958	448.2425	956.5508	951.4763
#2	945.1210	286.6541	285.8635	446.1941	451.9739	968.0280	961.6188
#3	943.6708	286.9291	288.0058	440.6950	455.1807	975.6326	966.9042
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	1200.000					1205.000	1205.000
LOW	800.0000					795.0000	795.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	977.5131	989.2739	4240.400
SDEV	6.2735	5.7359	20.950
%RSD	.6417775	.5798066	.4940497
#1	973.0014	982.6772	4260.466
#2	984.6771	992.0591	4218.667
#3	974.8608	993.0854	4242.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	1205.000	1205.000	
LOW	795.0000	795.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 06/04/10 01:11:51
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	96.35274	47094.14	1001.962	952.2367	46260.77	941.1765	933.9110
SDEV	1.60411	49.50	6.074	8.1042	622.44	9.2012	6.4198
%RSD	1.664828	.1051117	.6061956	.8510665	1.345499	.9776281	.6874054
#1	97.83197	47135.48	996.1957	961.2129	46944.61	950.6641	940.9451
#2	96.57858	47107.64	1001.387	950.0394	46110.41	940.5740	928.3680
#3	94.64769	47039.29	1008.303	945.4578	45727.28	932.2913	932.4199
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	918.5136	973.1807	22842.54	51460.86	48337.66	938.5918	49761.39
SDEV	7.2078	4.5707	123.15	547.37	62.68	7.5314	255.67
%RSD	.7847221	.4696678	.5391183	1.063657	.1296742	.8024197	.5137823
#1	923.4365	977.5007	22950.36	50832.59	48362.75	946.9539	49682.32
#2	910.2405	973.6464	22708.34	51715.34	48266.32	932.3420	50047.25
#3	921.8639	968.3950	22868.93	51834.67	48383.91	936.4795	49554.61
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	958.9608	984.4774	947.2844	Q960.8652	961.2518	993.6651	1010.882
SDEV	5.8981	5.0992	6.7320	14.2159	3.9416	2.7335	3.258
%RSD	.6150460	.5179650	.7106598	1.479487	.4100444	.2750975	.3222904
#1	964.7615	981.8520	954.6428	Q977.2802	958.5130	990.6421	1014.250
#2	959.1509	990.3544	941.4349	Q952.5948	965.7692	995.9629	1010.649
#3	952.9700	981.2258	945.7754	Q952.7208	959.4731	994.3903	1007.747
ERRORS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	981.5056	945.0843	969.3190	985.5581	997.7097	975.0098	991.1027
SDEV	2.5389	9.8936	3.9150	4.8331	5.7191	8.1451	1.9764
%RSD	.2586697	1.046849	.4038911	.4903924	.5732181	.8353847	.1994182
#1	984.3344	945.9022	964.8046	989.6657	991.1268	984.4134	989.7618
#2	979.4247	954.5437	971.3691	986.7761	1000.547	970.1632	993.3725
#3	980.7576	934.8072	971.7831	980.2325	1001.456	970.4526	990.1739
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	979.3166	997.3995	4079.755
SDEV	5.7447	7.5700	41.181
%RSD	.5866010	.7589707	1.009394
#1	985.5709	1005.585	4125.267
#2	974.2752	995.9641	4068.933
#3	978.1039	990.6501	4045.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 06/04/10 01:19:05
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0225836	-32.1984	.2393063	-.622343	377.8553	.5991560	2.046895
SDEV	.3525857	13.4954	.0206688	.336585	.4864	.3168165	.316751
%RSD	1561.249	41.91328	8.636960	54.08351	.1287371	52.87712	15.47470
#1	.3048780	-16.9311	.2592617	-.259990	377.3096	.9624401	2.410523
#2	.1355013	-42.5354	.2406658	-.925234	378.2433	.4548128	1.830992
#3	-.372629	-37.1287	.2179913	-.681806	378.0131	.3802152	1.899169
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.187629	.4871362	6.317445	-1427.04	10.26636	.3423025	32.26735
SDEV	.160785	.3148357	2.929676	1.71	.14836	.0102034	45.43227
%RSD	85.69292	64.62991	46.37439	.1201747	1.445072	2.980816	140.7995
#1	-.144939	.1552416	6.791780	-1428.56	10.29797	.3537983	43.76374
#2	-.052497	.7815591	8.981011	-1425.18	10.10474	.3343199	70.84708
#3	-.365450	.5246081	3.179543	-1427.38	10.39636	.3387892	-17.8088
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2074266	.8709103	.4441402	1.011833	1.616819	-.204376	3.001637
SDEV	.7478134	1.298629	.0697128	.577223	.772915	1.117100	1.969539
%RSD	360.5195	149.1116	15.69613	57.04722	47.80465	546.5915	65.61549
#1	.9958325	2.355999	.4150625	.6812030	1.695679	1.014122	.7813411
#2	-.491796	-.051415	.5236848	1.678345	.8074975	-.447073	4.538161
#3	.1182434	.3081473	.3936734	.6759504	2.347281	-1.18018	3.685408
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.670819	.1265114	2.358045	.2659593	-.442000	.3358690	.4488153
SDEV	2.576840	1.469850	1.544248	1.649694	1.773583	1.899307	2.654037
%RSD	384.1333	1161.832	65.48850	620.2806	401.2626	565.4905	591.3429
#1	2.178336	1.696969	1.692172	-.134212	1.584566	.8443896	-1.60367
#2	-1.35254	-.101307	1.258445	2.078927	-1.71095	1.929154	3.445944
#3	-2.83826	-1.21613	4.123519	-1.14684	-1.19961	-1.76594	-.495827
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.202860	.4105095	4298.578
SDEV	.481003	.0587130	71.113
%RSD	21.83537	14.30248	1.654339
#1	2.262177	.4737945	4218.533
#2	2.651453	.3578082	4354.466
#3	1.694950	.3999257	4322.733
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

5. Digestion and Distillation Logs

Logs shall be submitted in the following order: digestion logs for ICP, flame AA (if used), furnace AA (if used), and mercury preparations, followed by a copy of the distillation log for cyanide.

METALS/MERCURY PREPARATION LOG

Metals Method: 3050B / 6010B
Mercury Method: 7471B
Prepared By: DDD / JRR

CompuChem
A Division Of
Liberty Analytical Corp.

Preparation Date: 6-2-10
Preparation Time: 1200
Batch Number: 60167
Blue Soil

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	SAMPLE TYPE	ICP Initial (g)	ICP Final (mL)	HG Initial (g)	HG Final (mL)	*Description Before	*Description After ICP
0060167-BLK1	PBS	MB	1.00	100			N / A	CS / CL
0060167-BS1	LCSS	LCS	1.00				BR / F	Y / CL
0060167-DUP1	SS50-0-1D	DUP	1.00				BR / M	Y / CL CY
0060167-MS1	SS50-0-1S	MS	1.00				BR / M	Y / CL CY
0060167-MSD1	SS50-0-1SD	MSD	1.00				BR / M	Y / CL CY
1005130-01	SS23-00-01	SAMPLE	1.05				BR / M	Y / CL
1005130-02	SB23-1.5-2	SAMPLE	1.03				BR / F	Y / CL
1005130-03	SS24-0-1	SAMPLE	1.05				BR / M	Y / CL CY
1005130-04	SB24-3-4	SAMPLE	1.00				BR / M	Y / CL
1005130-05	SS49-0-1	SAMPLE	1.04				BR / F	Y / CL
1005130-06	SB49-11-12	SAMPLE	1.02				BR / F	Y / CL
1005130-07	SS50-0-1	SAMPLE	1.00				BR / M	Y / CL CY
1005130-08	SB47-14-15	SAMPLE	1.02				BR / M	Y / CL
1005130-09	SS47-0-1	SAMPLE	1.04				BR / M	Y / CL
1005130-10	SS11-0-1	SAMPLE	1.03				BR / M	Y / CL
1005130-11	SB11-11-12	SAMPLE	1.03				BR / M	Y / CL
1005130-12	SB48-7-8	SAMPLE	1.02				BR / F	Y / CL
1005130-13	SS48-0-1	SAMPLE	1.02				GY / F	Y / CL
1005130-14	SS18-0-1	SAMPLE	1.05				BR / F	Y / CL
1005130-15	SB18-12-13	SAMPLE	1.00				BR / F	Y / CL
1005130-16	SS25-0-1	SAMPLE	1.01				BR / M	Y / CL
1005130-17	SB25-3-4	SAMPLE	1.02				BR / F	Y / CL
1005130-18	SS08-0-1	SAMPLE	1.03				BR / M	Y / CL
1005130-19	SB08-6-7	SAMPLE	1.04				BR / F	Y / CL
1005130-20	SS05-0-1	SAMPLE	1.03				BR / F	Y / CL

Mercury Standards and QC S0 S0.2 S0.5S1 S5 S10 ICV ICB CRI CCV CCB

NOTE: All standards and QC for mercury were prepared at the same day as the associated samples. Refer to the attached. Standard/QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

Record of Tempature/Time	
Hot Block Temp In:	95° C
Hot Block Temp Out:	95° C
Time Hg in water bath:	
Time Hg out water bath:	
Water Bath Temp In:	C
Water Bath Temp Out:	C

MS Reference
ICAP: 1.0mL XCL-20
Ref #: OB26007
HG: 1.0mL 100ppb Hg
Ref#:

LCS Reference
ICAP: 1.0g ERA PPT (540)
Ref #: OB24007
HG: 0.2g ERA PPT (540)
Ref#:

* R=red, BL=blue, Y=yellow, G=green, O=orange, V=violet, W=white, CS=colorless, BR=brown, BK=black
GY= grey, F=fine, M=medium, C=coarse, CL=clear, CY=cloudy, OP=opaque

"The presence of the Chemist's/analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations requires documentation by the chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation."

Sample Verification Signature: [signature]
This signature corroborates that the sample idenification numbers appearing on the digestion cups are the same as those appearing on the field sample containers.

Reviewed By: [signature]
Date: 060710

Shading has been applied to unused portions of this worksheet as a substitute for 'Z-out.

JCF 120209

Standards/QC Preparation Log for ICP Metals/Mercury Page 1 of 3 **Case/SDG:** 100530
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION DATE
SULFURIC ACID (H_2SO_4)	0E20027	CALEDON	71645	05/15
NITRIC ACID (HNO_3)	0E19001	JT BAKER	J10027	05/15
POTASSIUM PERMANGANATE ($KMnO_4$)	0D13009	JT BAKER	J04613	04/13
HYDROCHLORIC ACID (HCL)	0E20028	CALEDON	72420	05/15
POTASSIUM PERSULFATE ($K_2S_2O_8$)	0A07004	JT BAKER	H44465	11/12
HYDROGEN PEROXIDE (H_2O_2)	0B18004	CALEDON	70692	01/11
STANDARDS				
XCL 20R	0B26007	HIGH PURITY	0925409	09/11/10
XCL LCS 10XR	9L15003	HIGH PURITY	0935232	12/10/10
ERA PPT (540)	0B24007	ERA	540	12/03/10
EPA LCS (0405)	0E20016	EPA	0405	11/17/11
ICV-1 (0307)	0B04003	EPA	0307	03/12/11
ILM05.3 MATRIX SPIKE	0B23010	HIGH PURITY	1004722	02/18/11
SILVER (Ag) 100ppm	9L15009	HIGH PURITY	0934323	12/15/10
TCLP 500	9L21002	HIGH PURITY	0934202	12/10/10
ARSENIC (As) 1000ppm	9F17001	HIGH PURITY	0911221	12/05/10
MERCURY (Hg) 20ppm	9L15007	HIGH PURITY	0916320	06/15/10
ICV-5 (0508) Hg	0E20020	EPA	0508	05/17/2015

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 6-2-10

ENTERED BY: D. Dickens DATE: 6-2-10

REVIEWED BY: John Rench DATE: 06-02-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 2 of 3 **Case/SDG:** 100130
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
Hg 100ppb-06-01-10-DD	Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water **(PREPARE DAILY)**
$K_2S_2O_8$- 05-25-10-DD Potassium Persulfate	Place in a 1000mL Erlenmeyer to a re-pipettor bottle **(PREPARE AS NEEDED)**
$KmnO_4$- 05-25-10 –DD Potassium Permanganate	Place in a 2000mL volumetric flask: 100.0g of $KmnO_4$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREARE AS NEEDED)**
HNO_3- 06-02-10 - DD Nitric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
HCl- 05-26-10 - DD Hydrochloric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HCl Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
Aqua Regia- 06-01-10 - DD	Place in a 1000mL container: 600mL of Concentrated HCL 200mL of Concentrated HNO3 **(PREPARE AS NEEDED)**

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 6-2-10

ENTERED BY: D. Dickens DATE: 6-2-10

REVIEWED BY: John Rausch DATE: 06-02-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 3 of 3 **Case/SDG:** 1005130
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS	Resultant Analyte Concentration
ICV-5- 06-02-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of ICV-5 and 99mL of reagent water. Digest according to sample preparation instructions	4.0µg/L
S0/ICB/CCB- 06-02-10-DD	Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions	0.0µg/L
S0.2/CRA/CRI- 06-02-10-DD	Pipet into a 300mL BOD Bottle 0.2mL of Hg 100ppb and 99.8mL of reagent water Digest according to sample preparation instructions	0.2µg/L
S0.5- 06-02-10-DD	Pipet into a 300mL BOD Bottle 0.5mL of Hg 100ppb and 99.5mL of reagent water Digest according to sample preparation instructions	0.5µg/L
S1.0- 06-02-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of Hg 100ppb and 99mL of reagent water Digest according to sample preparation instructions	1.0µg/L
S5.0/CCV- 06-02-10-DD	Pipet into a 300mL BOD Bottle 5.0mL of Hg 100ppb and 95mL of reagent water Digest according to sample preparation instructions	5.0µg/L
S10.0- 06-02-10-DD	Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions	10.0µg/L

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 6-2-10

ENTERED BY: D. Dickens DATE: 6-2-10

REVIEWED BY: John Resch DATE: 06-02-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

C. Chain-of-Custody Documentation

The laboratory shall include a copy of the Chain-of-Custody (CoC) Documentation for all of the samples in the SDG. The CoC documentation shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24804

156

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information		Project Information	
Company Name	CH2M HILL	Project Name	CTO-94
Address	5700 Cleveland St Ste 101	Sampling Location	MCB CAMLEJ
City / State / Zip	VIRGINIA BEACH VA 23462	Turnaround time	PER CONTRACT
Project Contact	REBEKAH SHAW	Batch QC or Project Specific? If Specific, which Sample ID?	
Phone #	757-671-6279	Are aqueous samples field filtered for metals? Y or (N)	
Sampler's Name	K. ROGERS/RDU	Are high concentrations expected? Y or (N)? If yes, which ID(s)?	no

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Comp/Grab	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL PEST. 3550/8081A	Chromium VI, ~~SW 7196A~~ ~~3060A/7196A~~	Metals 6010B/7471A	GRAINSIZE ASTM D422	Total Chromium 6010B	Grain size	
1005130-01	BBG-SS23-00-01-10B	5-10-10	1620	SO	3							X	X	X		X	X	1005166-01	
-02	BBG-SB23-1.5-2-10B	5-10-10	1630	SO	3							X	X	X		X	X		-02
1005129-01	BBG-SS55-00-01-10B	5-11-10	0740	SO	3							X	X	X	X	X		@	-03
-02	BBG-SB55-2.5-3-10B	5-11-10	0750	SO	3							X	X	X	X	X			-04
-03	BBG-SS54-0-1-10B	5-11-10	0840	SO	3							X	X	X	X	X		1005210-18	
-04	BBG-SB54-4-5-10B	5-11-10	0850	SO	3							X	X	X	X	X		1005166-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Relinquished by:		Date/Time:	Received by:	K. Manning	Date/Time: 5/13/10 0930
Relinquished by:		Date/Time:	Received by:		Date/Time:
Subcontact? Y or N If yes, where?	Grainsize to CT LABS	Custody Seal(s) intact? Y or N	On Ice? Y or N		Cooler Temp: 0.2 °C

Samples stored ~~60~~ days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24805

157

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 CLEVELAND ST STE	Sampling Location: MCB CAMLEJ
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: ROBECCA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N) NA
Sampler's Name: K. ROGERS / RDU	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lancaster Laboratories Sample Number	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	(1) SVOCs SIMPAH 3550B/8270C	(2) TCL PESTICIDES 3550/8081A	(3) Chromium VI 7196A	(4) METALS 6010B/7471A	(5) GRAINSIZE ASTM D422	(6) TOTAL CHROMIUM 6010B		GRAINSIZE	
1005129-05	BBG-SS53-0-1-10B	5.11.10	0930	SO	3							X	X	X	X	X			1005166-06	
-05	BBG-SS53-0-1-10B MS	5.11.10	0930	SO	3							X	X	X	X					
-05	BBG-SS53-0-1-10B SD	5.11.10	0930	SO	3							X	X	X	X					
-06	BBG-SB53-7-8-10B	5.11.10	0935	SO	3							X	X	X	X	X			1005166-07	
1005130-03	BBG-SS24-0-1-10B	5.11.10	1045	SO	3							X	X	X		X	X		1005166-08	
-04	BBG-SB24-3-4-10B	5.11.10	1055	SO	3							X	X	X		X	X		1005166-09	

Lab Use Only

Sample Unpacked By: K. Manning	Cyanide samples checked for sulfide & chlorine? Y or (NA)
Sample Order Entry By:	625 & Phenol samples checked for chlorine? Y or (NA)
Samples Received in Good Condition? (Y) or N	608 samples checked for pH between 5.0-9.0? Y or (NA)
If no, explain:	

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? GRAIN SIZE to CT LABS | Custody Seal(s) intact? (Y) or N | On Ice? (Y) or N | Cooler Temp: 1.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24807

Page 1 of 1

158

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrix
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Use Only	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Req'd Analysis: SIM PAH 8270C/3550B (8oz)	TCL PEST. 3550/8081A (8oz)	Chromium VI, #7196A (2oz)	MCP's 6010B/7471A (8oz)	GRAINSIZE ASTMD422	TOTAL CHROMIUM (6010B)		Grain size	
1005130-05	BBG-SB49-0-1-10B	5-11-10	1405	SO	3							X	X	X		X	X		1005166-10	
↓ -06	BBG-SB49-11-12-10B	5.12.10	1422	SO	3							X	X	X		X	X			-11
1005129-07	BBG-SB80-0-1-10B	5.12.10	0755	SO	3							X	X	X	X	X				-12
↓ -08	BBG-SB80-3-4-10B	5.12.10	0800	SO	3							X	X	X	X	X				-13
1005130-07	BBG-SB50-0-1-10B	5.11.10	1445	SO	3							X	X	X		X	X		↓	-14
-07	BBG-SB50-0-1-10B-MS	5.11.10	1445	SO	3							X	X	X		X	X			
↓ -07	BBG-SB50-0-1-10B-SD	5-11-10	1445	SO	3							X	X	X		X	X			

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

SB49-11-12-10B Sample time reads 1420 DB 4/13/10

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: Diane Byrd	Date/Time: 5-13-10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24806

159

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information		Project Information	
Company Name	CH2M HILL	Project Name	CTO-94
Address	5700 Cleveland St Ste 101	Sampling Location	MCB CAMLEJ
City / State / Zip	VIRGINIA BEACH VA 23462	Turnaround time	PER CONTRACT
Project Contact	REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?	
Phone #	757-671-6279	Are aqueous samples field filtered for metals? Y or (N)	
Sampler's Name	K. ROGERS/ROW	Are high concentrations expected? Y or (N) If yes, which ID(s)?	

Preservation Codes: H - HCl, N - HNO3, S - H2SO4, O - Other

Matrix: GW - Ground water, WW - Waste water, SW - Surface water, SO - Soil/Sediment, TB - Trip Blank, RI - Rinsate, WP - Wipe, O - Other

Sample # (CompuChem Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	8270C/3550B SIM PAH	8081A/3550 TCL Pest.	7196A/ Chromium VI	6010B/7471A Metals	ASTM D422 Grain Size	6010B Total Chromium		Gran size		
1005129-09	BBG-SS56-0-1-10B	5/11/10	1125	SO	3							X	X	X	X	X			1005166-15		
-10	BBG-SS56-3-4-10B	5-11-10	1130	SO	3			BBG-SB56-3-4-10B				X	X	X	X	X					-16
-11	BBG-SS58-0-1-10B	5-12-10	1015	SO	3							X	X	X	X	X					-17
1005130-08	BBG-SB47-11-15-10B	5-12-10	0940	SO	3							X	X	X		X	X				-18
-09	BBG-SS47-0-1-10B	5-12-10	0910	SO	3							X	X	X		X	X				-19
-10	BBG-SS11-0-1-10B	5-11-10	1605	SO	3							X	X	X		X	X				-20
-11	BBG-SB11-11-12-10B	5-11-10	1620	SO	3							X	X	X		X	X		1005209-01		

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By: [illegible]
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by:	Date/Time: 5/12/10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Gran size to CTLABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 4.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24770

160

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

2 oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, Ste 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (1-Share)	TCL Pest. (8081A) (2-AG)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B)	Chromium VI (7196A) (1-125ml)	Grain Size (1-8oz.)		Grain Size			Comments
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X						<2
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X		1005209-02			
-13	BBG-SS48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X					-03
1005129-12	BBG-SS52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X					-04
-13	BBG-SS51-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X					-05

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? (Y) or N If yes, where? Grain size to GT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

24771

161

CompuChem
a division of Liberty Analytical Corp.

Residual Chlorine Present? Yes ____ No ____

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M Hill	Project Name: CTO-94
Address: 5700 Cleveland St., Ste 101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time
Project Contact: Rebekha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Kristin Rogers / RDU	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Chrom VI (7196A)	Total Chrom (6010B)	Total Metals (6010B)	Grain Size (ASTM D422)	SIM PAH's (8270C)	TCL Pest. (8081A)		Gran size					
1005130-14	BBG-SS18-0-1-10B	5-12-10	1505	SO	3							X	X		X	X	X			1005209-06				
-15	BBG-SB18-12-13-10B	5-12-10	1520	SO	3							X	X		X	X	X			-07				
1005129-14	BBG-SS60-0-1-10B	5-12-10	1555	SO	3							X		X	X	X	X			-08				
-15	BBG-SS59-0-1-10B	5-12-10	1640	SO	3							X		X	X	X	X			-09				
-16	BBG-SB59-9-10-10B	5-12-10	1655	SO	3							X		X	X	X	X			-10				
1005130-16	BBG-SS25-0-1-10B	5-13-10	1105	SO	3							X	X		X	X	X			-11				
-17	BBG-SB25-3-4-10B	5-13-10	1110	SO	3							X	X		X	X	X			-12				

Lab Use Only

Sample Unpacked By: Diane Byrd	Cyanide samples checked for sulfide & chlorine? Y or NA
Sample Order Entry By: Betty Perry	625 & Phenol samples checked for chlorine? Y or NA
Samples Received in Good Condition? Y or N	608 samples checked for pH between 5.0-9.0? Y or NA
If no, explain:	

Relinquished by: Shaw	Date/Time: 5-13-10 / 1330	Received by: Diane Byrd	Date/Time: 5/14/10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SJ0015

24776

162

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDH

Project Information

Project Name: GO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2oz	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 8oz	TCL Pest (8081A)	Grain Size (ASTM D422) 8oz	Grain size	GW WW SW SO TB RI WP O
1005132-03	BBG-SB77-0-1-10B	5-13-10	1205	SO	3							X		X	X	X	X	1005209-19	
-04	BBG-SB77-2.5-3.5-10B	5-13-10	1210	SO	3							X		X	X	X	X	container has BBG-SB77-3.5-4.5	
1005130-18	BBG-SB08-0-1-10B	5-13-10	1240	SO	3								X	X	X	X	X	1005210-02	
-19	BBG-SB08-6-7-10B	5-13-10	1300	SO	3								X	X	X	X	X		-03
1005132-05	BBG-SB79-0-1-10B	5-13-10	1520	SO	3							X	[illegible]	X	X	X	X		-04
-06	BBG-SB79-11-12-10B	5-13-10	1530	SO	3							X	[illegible]	X	X	X	X		-05

Sample Unpacked By: Jennifer Doer
Sample Order Entry By: [illegible] Doer
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by:	Date/Time: 5.14.10 1600	Received by: [signature]	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? Y or N (JD 5/14/10 client delivered)
On Ice (Y) or N
Cooler Temp: 3.8 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24775

163

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 20	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C)	TCL Pest (8081A)	Grain Size (ASTM D422)		Grain Size					
1005132-07	BBG-SS83-0-1-10B	5-13-10	1555	SO	3							X		X	X	X	X		1005210-06					
-08	BBG-SB83-6.5-7.5-10B	5-13-10	1605	SO	3							X		X	X	X	X						-07	
-09	BBG-SS62-0-1-10B	5-13-10	1640	SO	3							X		X	X	X	X						-08	
1005130-20	BBG-SS05-0-1-10B	5-14-10	0800	SO	3							~~X~~	X	X	X	X	X						-09	
1005134-05	BBG-SB05-7-8-10B	5-14-10	0810	SO	3								X	X	X	X	X						-10	

Lab Use Only

Sample Unpacked By: Jennifer Dones
Sample Order Entry By:
Samples Received in Good Condition: (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Sample Custody

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Vincent Byrd	Date/Time: 5-14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grain size to CTLBS
Custody Seal(s) intact? Y or N
On Ice? (Y) or N
Cooler Temp: 3.6 °C

client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-01	SS23-00-01	05/10/2010	05/13/2010	05/27/2010	BBG-SS23-00-01-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-01	SS23-00-01	05/10/2010	05/13/2010	06/03/2010	BBG-SS23-00-01-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-02	SB23-1.5-2	05/10/2010	05/13/2010	05/27/2010	BBG-SB23-1.5-2-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-02	SB23-1.5-2	05/10/2010	05/13/2010	06/03/2010	BBG-SB23-1.5-2-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-03	SS24-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS24-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-03	SS24-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS24-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-04	SB24-3-4	05/11/2010	05/13/2010	05/27/2010	BBG-SB24-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-04	SB24-3-4	05/11/2010	05/13/2010	06/03/2010	BBG-SB24-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-05	SS49-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS49-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-05	SS49-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS49-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-06	SB49-11-12	05/11/2010	05/13/2010	05/27/2010	BBG-SB49-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-06	SB49-11-12	05/11/2010	05/13/2010	06/03/2010	BBG-SB49-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-07	SS50-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS50-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-07	SS50-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS50-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-08	SB47-14-15	05/12/2010	05/13/2010	05/27/2010	BBG-SB47-14-15-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-08	SB47-14-15	05/12/2010	05/13/2010	06/03/2010	BBG-SB47-14-15-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-09	SS47-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS47-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-09	SS47-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS47-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-10	SS11-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS11-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-10	SS11-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS11-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-11	SB11-11-12	05/12/2010	05/13/2010	05/27/2010	BBG-SB11-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-11	SB11-11-12	05/12/2010	05/13/2010	06/03/2010	BBG-SB11-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-12	SB48-7-8	05/12/2010	05/13/2010	05/27/2010	BBG-SB48-7-8-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-12	SB48-7-8	05/12/2010	05/13/2010	06/03/2010	BBG-SB48-7-8-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-13	SS48-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS48-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-13	SS48-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS48-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-14	SS18-0-1	05/12/2010	05/14/2010	05/27/2010	BBG-SS18-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-14	SS18-0-1	05/12/2010	05/14/2010	06/03/2010	BBG-SS18-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-15	SB18-12-13	05/12/2010	05/14/2010	05/27/2010	BBG-SB18-12-13-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-15	SB18-12-13	05/12/2010	05/14/2010	06/03/2010	BBG-SB18-12-13-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-16	SS25-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS25-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-16	SS25-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS25-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-17	SB25-3-4	05/12/2010	05/14/2010	05/27/2010	BBG-SB25-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-17	SB25-3-4	05/12/2010	05/14/2010	06/03/2010	BBG-SB25-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-18	SS08-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS08-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-18	SS08-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS08-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-19	SB08-6-7	05/13/2010	05/14/2010	05/27/2010	BBG-SB08-6-7-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-19	SB08-6-7	05/13/2010	05/14/2010	06/03/2010	BBG-SB08-6-7-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-20	SS05-0-1	05/14/2010	05/14/2010	05/27/2010	BBG-SS05-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-20	SS05-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS05-0-1-10B

WORK ORDER

1005130

Printed: 5/28/2010 6:52:04PM

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Received**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/03/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/14/2010 16:00

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 16:33

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005130-07 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A* METALS=TOTAL Cr ONLY*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005130-01 SS23-00-01 [Soil] Sampled 05/10/2010 16:20 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:20	05/13/2010 09:30	
1005130-02 SB23-1.5-2 [Soil] Sampled 05/10/2010 16:30 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:30	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
1005130-03 SS24-0-1 [Soil] Sampled 05/11/2010 10:45 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:45	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005130-04 SB24-3-4 [Soil] Sampled 05/11/2010 10:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
1005130-05 SS49-0-1 [Soil] Sampled 05/11/2010 14:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
1005130-06 SB49-11-12 [Soil] Sampled 05/11/2010 14:22 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:22	05/13/2010 09:30	
1005130-07 SS50-0-1 [Soil] Sampled 05/11/2010 14:45 Eastern				**USE FOR QC**	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:45	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = SVsim- PAH
1005130-08 SB47-14-15 [Soil] Sampled 05/12/2010 09:40 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005130-09 SS47-0-1 [Soil] Sampled 05/12/2010 09:10 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:10	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = SVsim- PAH
1005130-10 SS11-0-1 [Soil] Sampled 05/12/2010 16:05 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:05	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-11 SB11-11-12 [Soil] Sampled 05/12/2010 16:20 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:20	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-12 SB48-7-8 [Soil] Sampled 05/12/2010 11:30 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:30	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
1005130-13 SS48-0-1 [Soil] Sampled 05/12/2010 11:00 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:00	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005130 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005130-14 SS18-0-1 [Soil] Sampled 05/12/2010 15:05 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:05	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = SVsim- PAH
1005130-15 SB18-12-13 [Soil] Sampled 05/12/2010 15:20 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:20	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = SVsim- PAH
1005130-16 SS25-0-1 [Soil] Sampled 05/13/2010 11:05 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 11:05	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
1005130-17 SB25-3-4 [Soil] Sampled 05/12/2010 11:10 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:10	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = GC- 8081 DOD
1005130-18 SS08-0-1 [Soil] Sampled 05/13/2010 12:40 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 12:40	05/14/2010 16:00	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Received**

Analysis	Due	TAT	Expires		Comments
1005130-19 SB08-6-7 [Soil] Sampled 05/13/2010 13:00 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 13:00	05/14/2010 16:00	
1005130-20 SS05-0-1 [Soil] Sampled 05/14/2010 08:00 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
Solids, Dry Weight	05/27/2010 16:00	13	11/10/2010 08:00	05/14/2010 16:00	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

INTERNAL DIGESTION COC

0060167

COMPUCHEM

Printed: 6/1/2010 5:02:15PM

Matrix: Soil **Prepared using: METALS - EPA 3050B**

Lab Number	Client ID	Sample Type	
0060167-BLK1	PBS	Blank	
0060167-BS1	LCSS	LCS	
0060167-DUP1	SS50-0-1D	Duplicate	
0060167-MS1	SS50-0-1S	Matrix Spike	
0060167-MSD1	SS50-0-1SD	Matrix Spike Dup	
1005130-01	SS23-00-01	Sample	
1005130-02	SB23-1.5-2	Sample	
1005130-03	SS24-0-1	Sample	
1005130-04	SB24-3-4	Sample	
1005130-05	SS49-0-1	Sample	
1005130-06	SB49-11-12	Sample	
1005130-07	SS50-0-1	Sample	
1005130-08	SB47-14-15	Sample	
1005130-09	SS47-0-1	Sample	
1005130-10	SS11-0-1	Sample	
1005130-11	SB11-11-12	Sample	
1005130-12	SB48-7-8	Sample	
1005130-13	SS48-0-1	Sample	
1005130-14	SS18-0-1	Sample	
1005130-15	SB18-12-13	Sample	
1005130-16	SS25-0-1	Sample	
1005130-17	SB25-3-4	Sample	
1005130-18	SS08-0-1	Sample	
1005130-19	SB08-6-7	Sample	
1005130-20	SS05-0-1	Sample	

D. Dickens	6-2-10 1720	ICP Stg.	6-2-10 1720
Relinquished By	Date	Received By	Date
	060310 1530		060310 1530
Relinquished By	Date	Received By	Date
	060710 1610		060710 1610
Relinquished By	Date	Received By	Date
		6-7-10	
Relinquished By	Date	Received By	Date

Metals Internal Chain of Custody Sheet

Batch: 0060167 **Status:** Batched **Analysis**: 6010B METALS

Lab Id	Client_Id	Received	Container	Extraction	Preservative	Matrix	Due Date	Cust Date
1005130-01 B	SS23-00-01	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-02 B	SB23-1.5-2	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-03 B	SS24-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-04 B	SB24-3-4	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-05 B	SS49-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-06 B	SB49-11-12	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-07 F	SS50-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005130-08 B	SB47-14-15	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-09 B	SS47-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-10 B	SS11-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-11 B	SB11-11-12	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/16/2010
1005130-12 B	SB48-7-8	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-13 B	SS48-0-1	05/13/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-14 B	SS18-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-15 B	SB18-12-13	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-16 B	SS25-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-17 B	SB25-3-4	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-18 B	SS08-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-19 B	SB08-6-7	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010
1005130-20 B	SS05-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/3/2010 4	5/17/2010

Cooler #1	6·02·10 0850	K. Maning	6·02·10 0850
Relinquished By	Date/Time	Received By	Date/Time
K. Maning	6·02·10 0850 (on 6·02·10)		6/2/10 0855
Relinquished By	Date/Time	Received By	Date/Time
	6-2-10 1700	Cooler #1	6-2-10 1700
Relinquished By	Date/Time	Received By	Date/Time
		6-7-10	
Relinquished By	Date/Time	Received By	Date/Time

CompuChem

A Division Of

Liberty Analytical Corp.

6/29/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S, WorkOrder: 1005130

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005130

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005130

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005130-01	SS23-00-01	Soil	05/10/2010 16:20	05/13/2010 09:30
1005130-02	SB23-1.5-2	Soil	05/10/2010 16:30	05/13/2010 09:30
1005130-03	SS24-0-1	Soil	05/11/2010 10:45	05/13/2010 09:30
1005130-04	SB24-3-4	Soil	05/11/2010 10:55	05/13/2010 09:30
1005130-05	SS49-0-1	Soil	05/11/2010 14:05	05/13/2010 09:30
1005130-06	SB49-11-12	Soil	05/11/2010 14:22	05/13/2010 09:30
1005130-07	SS50-0-1	Soil	05/11/2010 14:45	05/13/2010 09:30
1005130-08	SB47-14-15	Soil	05/12/2010 09:40	05/13/2010 09:30
1005130-09	SS47-0-1	Soil	05/12/2010 09:10	05/13/2010 09:30
1005130-10	SS11-0-1	Soil	05/12/2010 16:05	05/13/2010 09:30
1005130-11	SB11-11-12	Soil	05/12/2010 16:20	05/13/2010 09:30
1005130-12	SB48-7-8	Soil	05/12/2010 11:30	05/13/2010 09:30
1005130-13	SS48-0-1	Soil	05/12/2010 11:00	05/13/2010 09:30
1005130-14	SS18-0-1	Soil	05/12/2010 15:05	05/14/2010 09:20
1005130-15	SB18-12-13	Soil	05/12/2010 15:20	05/14/2010 09:20
1005130-16	SS25-0-1	Soil	05/13/2010 11:05	05/14/2010 09:20
1005130-17	SB25-3-4	Soil	05/12/2010 11:10	05/14/2010 09:20
1005130-18	SS08-0-1	Soil	05/13/2010 12:40	05/14/2010 16:00
1005130-19	SB08-6-7	Soil	05/13/2010 13:00	05/14/2010 16:00
1005130-20	SS05-0-1	Soil	05/14/2010 08:00	05/14/2010 16:00

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC by SW-846

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

A. SDG Narrative

B. Tabulated target compound results (Form I)

C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low, or Medium)

D. Spike results MS / MSD / LCS (Form III)

E. Blank data (Form IV)
Tabulated blank results (Form I)

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005130

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005130
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SS23-00-01, SB23-1.5-2, SS24-0-1, SB24-3-4, SS49-0-1, SB49-11-12, SS50-0-1, SB47-14-15, SS47-0-1, SS11-0-1, SB11-11-12, SB48-7-8, SS48-0-1, SS18-0-1, SB18-12-13, SS25-0-1, SB25-3-4, SS08-0-1, SB08-6-7, SS05-0-1

The twenty soil samples listed above were received intact, refrigerated between 0.2 and 4.3°C, with proper documentation, in sealed shipping containers, on May 13th and 14th, 2010. The samples were scheduled for the requested analysis of the Pesticide fraction only. SW-846, 3rd Edition, Update 4, Method 8081B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # 1005130 are included in the sample data sections.

Pesticide

Extraction and analysis holding time requirements were met for the samples. The samples in this SDG were further cleaned through the GPC cleanup process. Two analysis of sample SB08-6-7 are reported. The first injection was analyzed with failing continuing calibration verification. The second injection was a miss-injection with passing continuing calibration verification. The entire sample extracted was used in previous analysis.

Target analytes confirmed above the reporting limits in samples SB08-6-7, SB18-12-13, SB48-7-8, SS08-0-1, SS18-0-1, SS25-0-1, SS47-0-1, and SS48-0-1. No target analytes confirmed above the reporting limits in the remaining samples.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG, with the exception mentioned above.

All surrogate recoveries were with the method specified limits, with exceptions in samples SS50-0-1MS, SS24-0-1, SB49-11-12, SS50-0-1, SS47-0-1, SS48-0-1, SS50-0-1MSD, and SB08-6-7RE.

The method blank associated with the samples met all quality control criteria.

Duplicate matrix spike samples were performed with sample SS50-0-1, and did not meet all recovery and precision criteria. The Laboratory Control Sample (LCS) prepared and analyzed with the samples met recovery criteria.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Teresa Amentt Jennings

Teresa Amentt Jennings
GC/HPLC Data Reviewer
June 7, 2010

Manual Integrations									
SDG:	1005130								
Sample(s)	SS50-0-1MS	SS23-00-01	SS23-1.5-2	SS49-0-1	SS50-0-1	SS50-0-1MSD	PBLKBJ	SB47-14-15	SS11-0-1
Compound									
alpha-BHC					X				
gamma-BHC									
beta-BHC			X				X		
delta-BHC								X	
Heptachlor		X	X						X
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane						X			
alpha-Chlordane						X			
Endosulfan I									
4,4'-DDE									
Dieldrin									
Endrin	X								
4,4'-DDD									
Endosulfan II									
4,4'-DDT		X							
Endrin Aldehyde				X					
Endosulfan sulfate							X		
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

Manual Integrations									
SDG:	1005130								
Sample(s)	SS25-0-1	SB25-3-4	SS08-0-1	SS05-0-1					
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC									
delta-BHC		X							
Heptachlor		X		X					
Aldrin									
Heptachlor Epoxide			X						
gamma-Chlordane			X	X					
alpha-Chlordane									
Endosulfan I									
4,4'-DDE									
Dieldrin									
Endrin									
4,4'-DDD									
Endosulfan II	X								
4,4'-DDT	X								
Endrin Aldehyde									
Endosulfan sulfate									
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005130

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
✓	Restek	clpest	0.32	0.5	30
✓	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

Revision 7 (12/6/2005)

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches $\geq$ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Form I

Organic Analysis Data Sheet (OADS)
- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBJLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 0051830-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.8	
319-85-7	beta-BHC	3.9	
319-84-6	alpha-BHC	4.1	
319-86-8	delta-BHC	4.6	
58-89-9	gamma-BHC (Lindane)	3.8	
72-54-8	4,4'-DDD	11	
72-55-9	4,4'-DDE	10	
50-29-3	4,4'-DDT	10	
60-57-1	Dieldrin	11	
959-98-8	Endosulfan I	3.9	
33213-65-9	Endosulfan II	10	
1031-07-8	Endosulfan sulfate	10	
72-20-8	Endrin	10	
7421-93-4	Endrin Aldehyde	6.8	
76-44-8	Heptachlor	4.6	
1024-57-3	Heptachlor Epoxide	4.4	
72-43-5	Methoxychlor	13	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	11	
5103-74-2	gamma-Chlordane	4.2	
5103-71-9	alpha-Chlordane	4.6	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB08-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	9.0	
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	0.98	J
72-55-9	4,4'-DDE	0.54	J
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB08-6-7RE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-19RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB11-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.8	JP
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	0.27	JP
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB18-12-13

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	3.2	P
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	3.9	U
60-57-1	Dieldrin	3.9	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	99	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB23-1.5-2

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	0.47	JP
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB24-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB25-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.47	J
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.25	J
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	0.28	J
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	88	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.1	JP
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB47-14-15

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 31 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.5	U
319-85-7	beta-BHC	2.5	U
319-84-6	alpha-BHC	0.30	JP
319-86-8	delta-BHC	1.5	JP
58-89-9	gamma-BHC (Lindane)	0.52	JP
72-54-8	4,4'-DDD	4.8	U
72-55-9	4,4'-DDE	4.8	U
50-29-3	4,4'-DDT	4.8	U
60-57-1	Dieldrin	4.8	U
959-98-8	Endosulfan I	2.5	U
33213-65-9	Endosulfan II	4.8	U
1031-07-8	Endosulfan sulfate	4.8	U
72-20-8	Endrin	4.8	U
7421-93-4	Endrin Aldehyde	4.8	U
76-44-8	Heptachlor	2.5	U
1024-57-3	Heptachlor Epoxide	0.47	J
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	120	U
53494-70-5	Endrin Ketone	4.8	U
5103-74-2	gamma-Chlordane	2.5	U
5103-71-9	alpha-Chlordane	2.5	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB48-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	3.6	P
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	2.2	U
5103-71-9	alpha-Chlordane	2.2	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB49-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 24 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	0.61	JP
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.3	U
72-55-9	4,4'-DDE	4.3	U
50-29-3	4,4'-DDT	0.72	J
60-57-1	Dieldrin	4.3	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
72-20-8	Endrin	4.3	U
7421-93-4	Endrin Aldehyde	4.3	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.3	U
5103-74-2	gamma-Chlordane	2.2	U
5103-71-9	alpha-Chlordane	2.2	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS05-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	0.59	J
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	0.81	J
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	0.35	J
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	1.5	J
5103-71-9	alpha-Chlordane	2.2	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS08-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	20	
72-55-9	4,4'-DDE	20	
50-29-3	4,4'-DDT	3.7	
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	0.66	J
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	1.1	J
76-44-8	Heptachlor	0.44	JP
1024-57-3	Heptachlor Epoxide	0.28	JP
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	0.29	JP
5103-71-9	alpha-Chlordane	1.9	U

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

SS11-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.0	J
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS18-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	3.4	P
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS23-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.54	JP
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	1.9	J
50-29-3	4,4'-DDT	1.3	J
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	0.62	J
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS24-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.60	J
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	93	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS25-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	3.1	
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.21	JP
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	2.5	JP
60-57-1	Dieldrin	1.3	J
959-98-8	Endosulfan I	0.25	JP
33213-65-9	Endosulfan II	11	
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	0.39	JP
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	2.0	P
5103-71-9	alpha-Chlordane	1.8	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS47-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.6	J
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	17	
50-29-3	4,4'-DDT	1.8	J
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	0.24	JP
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS48-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	3.5	P
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	2.1	J
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS49-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.5	JP
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	0.70	J
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS50-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.2	JP
319-85-7	beta-BHC	1.3	JP
319-84-6	alpha-BHC	0.96	JP
319-86-8	delta-BHC	0.40	J
58-89-9	gamma-BHC (Lindane)	2.6	U
72-54-8	4,4'-DDD	0.67	JP
72-55-9	4,4'-DDE	5.0	U
50-29-3	4,4'-DDT	5.0	U
60-57-1	Dieldrin	5.0	U
959-98-8	Endosulfan I	2.6	U
33213-65-9	Endosulfan II	5.0	U
1031-07-8	Endosulfan sulfate	2.5	JP
72-20-8	Endrin	0.92	JP
7421-93-4	Endrin Aldehyde	5.0	U
76-44-8	Heptachlor	0.75	JP
1024-57-3	Heptachlor Epoxide	0.65	JP
72-43-5	Methoxychlor	26	U
8001-35-2	Toxaphene	130	U
53494-70-5	Endrin Ketone	0.74	JP
5103-74-2	gamma-Chlordane	0.80	JP
5103-71-9	alpha-Chlordane	1.3	J

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS50-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 0051830-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.0	
319-85-7	beta-BHC	6.0	
319-84-6	alpha-BHC	5.3	
319-86-8	delta-BHC	5.2	
58-89-9	gamma-BHC (Lindane)	4.5	
72-54-8	4,4'-DDD	14	
72-55-9	4,4'-DDE	12	
50-29-3	4,4'-DDT	10	
60-57-1	Dieldrin	12	
959-98-8	Endosulfan I	4.6	
33213-65-9	Endosulfan II	12	
1031-07-8	Endosulfan sulfate	29	
72-20-8	Endrin	13	
7421-93-4	Endrin Aldehyde	7.5	
76-44-8	Heptachlor	5.6	
1024-57-3	Heptachlor Epoxide	5.7	
72-43-5	Methoxychlor	15	J
8001-35-2	Toxaphene	130	U
53494-70-5	Endrin Ketone	14	
5103-74-2	gamma-Chlordane	5.0	P
5103-71-9	alpha-Chlordane	5.1	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS50-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 0051830-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.2	
319-85-7	beta-BHC	4.9	
319-84-6	alpha-BHC	5.6	
319-86-8	delta-BHC	5.2	
58-89-9	gamma-BHC (Lindane)	4.7	
72-54-8	4,4'-DDD	14	
72-55-9	4,4'-DDE	13	
50-29-3	4,4'-DDT	11	
60-57-1	Dieldrin	15	
959-98-8	Endosulfan I	5.6	
33213-65-9	Endosulfan II	12	
1031-07-8	Endosulfan sulfate	18	P
72-20-8	Endrin	15	
7421-93-4	Endrin Aldehyde	6.8	
76-44-8	Heptachlor	6.4	
1024-57-3	Heptachlor Epoxide	5.6	
72-43-5	Methoxychlor	15	J
8001-35-2	Toxaphene	130	U
53494-70-5	Endrin Ketone	14	
5103-74-2	gamma-Chlordane	5.3	P
5103-71-9	alpha-Chlordane	5.4	P

C. Form II

Surrogate spike analysis

- By level (low, medium) -

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC	#	S1 2 %REC	#	TCX 1 %REC	#	TCX 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	PBJLCS	84		74		82		75				0
02	SS50-0-1MS	58		61		69	*	51	*			2
03	SS23-00-01	72		66		84		71				0
04	SB23-1.5-2	85		73		83		70				0
05	SS24-0-1	63		57		64	*	57	*			2
06	SB24-3-4	77		70		82		70				0
07	SS49-0-1	99		72		83		76				0
08	SB49-11-12	83		68		75		61	*			1
09	SS50-0-1	58		58		75		50	*			1
10	SB47-14-15	81		85		86		74				0
11	SS47-0-1	84		81		86		70	*			1
12	SS11-0-1	86		76		90		74				0
13	SB11-11-12	98		89		99		82				0
14	SB48-7-8	94		84		98		83				0
15	SS48-0-1	63		57		65	*	54	*			2
16	SS18-0-1	94		86		100		95				0
17	SB18-12-13	93		87		97		80				0
18	SS25-0-1	99		90		110		93				0
19	SB08-6-7	87		81		93		75				0
20	PBLKBJ	82		85		83		79				0
21	SS50-0-1MSD	63		70		67	*	60	*			2
22	SB25-3-4	100		104		110		106				0
23	SS08-0-1	110		112		120		112				0
24	SB08-6-7RE	16	*	15	*	28	*	26	*			4
25	SS05-0-1	110		113		120		110				0
26												
27												
28												
29												
30												

ADVISORY QC LIMITS

S1 = Decachlorobiphenyl (55-130)
S2 (TCX) = Tetrachloro-m-Xylene (70-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results
- By level (low, medium) -
Laboratory Control Sample(s)

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix Spike - EPA Sample No.: SS50-0-1

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aldrin	7.6	1.2	5.0	50	45-140
beta-BHC	7.6	1.3	6.0	62	60-125
alpha-BHC	7.6	0.96	5.3	57*	60-125
delta-BHC	7.6	0.40	5.2	63	55-130
gamma-BHC (Lindane)	7.6	0.0	4.5	59*	60-125
4,4'-DDD	19	0.67	14	70	30-135
4,4'-DDE	19	0.0	12	63*	70-125
4,4'-DDT	19	0.0	10	53	45-140
Dieldrin	19	0.0	12	63*	65-125
Endosulfan I	7.6	0.0	4.6	60	15-135
Endosulfan II	19	0.0	12	63	35-140
Endosulfan sulfate	19	2.5	29	139*	60-135
Endrin	19	0.92	13	64	60-135
Endrin Aldehyde	19	0.0	7.5	39	35-145
Heptachlor	7.6	0.75	5.6	64	50-140
Heptachlor Epoxide	7.6	0.65	5.7	66	65-130
Methoxychlor	19	0.0	15	79	55-145
Endrin Ketone	19	0.74	14	70	65-135
gamma-Chlordane	7.6	0.80	5.0	55*	65-125
alpha-Chlordane	7.6	1.3	5.1	50*	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix Spike - EPA Sample No.: SS50-0-1

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	7.6	5.2	53	4	40	45-140
beta-BHC	7.6	4.9	47*	20	40	60-125
alpha-BHC	7.6	5.6	61	6	40	60-125
delta-BHC	7.6	5.2	63	0	40	55-130
gamma-BHC (Lindane)	7.6	4.7	62	4	40	60-125
4,4'-DDD	19	14	70	0	40	30-135
4,4'-DDE	19	13	68*	8	40	70-125
4,4'-DDT	19	11	58	10	40	45-140
Dieldrin	19	15	79	22	40	65-125
Endosulfan I	7.6	5.6	74	20	40	15-135
Endosulfan II	19	12	63	0	40	35-140
Endosulfan sulfate	19	18	82	47*	40	60-135
Endrin	19	15	74	14	40	60-135
Endrin Aldehyde	19	6.8	36	10	40	35-145
Heptachlor	7.6	6.4	74	13	40	50-140
Heptachlor Epoxide	7.6	5.6	65	2	40	65-130
Methoxychlor	19	15	79	0	40	55-145
Endrin Ketone	19	14	70	0	40	65-135
gamma-Chlordane	7.6	5.3	59*	6	40	65-125
alpha-Chlordane	7.6	5.4	54*	6	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 20 outside limits
Spike Recovery: 11 out of 40 outside limits

COMMENTS: _____

3F
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

LCS ID: PBJLCS

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aldrin	5.0	3.8	76	45-140
beta-BHC	5.0	3.9	78	60-125
alpha-BHC	5.0	4.1	82	60-125
delta-BHC	5.0	4.6	92	55-130
gamma-BHC (Lindane)	5.0	3.8	76	60-125
4,4'-DDD	13	11	85	30-135
4,4'-DDE	13	10	77	70-125
4,4'-DDT	13	10	77	45-140
Dieldrin	13	11	85	65-125
Endosulfan I	5.0	3.9	78	15-135
Endosulfan II	13	10	77	35-140
Endosulfan sulfate	13	10	77	60-135
Endrin	13	10	77	60-135
Endrin Aldehyde	13	6.8	52	35-145
Heptachlor	5.0	4.6	92	50-140
Heptachlor Epoxide	5.0	4.4	88	65-130
Methoxychlor	13	13	100	55-145
Endrin Ketone	13	11	85	65-135
gamma-Chlordane	5.0	4.2	84	65-125
alpha-Chlordane	5.0	4.6	92	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS: _____

_____

E. Form IV

Method Blank Results
Form IV, Form I

Method blank summary, OADS,
- In chronological order of analysis

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBJ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-BLK1 Lab File ID: 027J0051830-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/19/10

Date Analyzed (1): 05/29/10 Date Analyzed (2): 05/29/10

Time Analyzed (1): 0523 Time Analyzed (2): 0523

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBJLCS	0051830-BS1	05/26/10	05/26/10
02	SS50-0-1MS	0051830-MS1	05/26/10	05/26/10
03	SS23-00-01	1005130-01	05/26/10	05/26/10
04	SB23-1.5-2	1005130-02	05/26/10	05/26/10
05	SS24-0-1	1005130-03	05/26/10	05/26/10
06	SB24-3-4	1005130-04	05/26/10	05/26/10
07	SS49-0-1	1005130-05	05/26/10	05/26/10
08	SB49-11-12	1005130-06	05/26/10	05/26/10
09	SS50-0-1	1005130-07	05/26/10	05/26/10
10	SB47-14-15	1005130-08	05/26/10	05/26/10
11	SS47-0-1	1005130-09	05/26/10	05/26/10
12	SS11-0-1	1005130-10	05/26/10	05/26/10
13	SB11-11-12	1005130-11	05/26/10	05/26/10
14	SB48-7-8	1005130-12	05/26/10	05/26/10
15	SS48-0-1	1005130-13	05/26/10	05/26/10
16	SS18-0-1	1005130-14	05/26/10	05/26/10
17	SB18-12-13	1005130-15	05/26/10	05/26/10
18	SS25-0-1	1005130-16	05/26/10	05/26/10
19	SB08-6-7	1005130-19	05/26/10	05/26/10
20	SS50-0-1MSD	0051830-MSD1	05/29/10	05/29/10
21	SB25-3-4	1005130-17	06/04/10	06/04/10
22	SS08-0-1	1005130-18	06/04/10	06/04/10
23	SB08-6-7RE	1005130-19RE1	06/04/10	06/04/10
24	SS05-0-1	1005130-20	06/04/10	06/04/10
25				
26				

COMMENTS: _____

FORM IV PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKBJ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 0051830-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-85-7	beta-BHC	1.7	U
319-84-6	alpha-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	3.3	U
72-55-9	4,4'-DDE	3.3	U
50-29-3	4,4'-DDT	3.3	U
60-57-1	Dieldrin	3.3	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
72-20-8	Endrin	3.3	U
7421-93-4	Endrin Aldehyde	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor Epoxide	1.7	U
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	3.3	U
5103-74-2	gamma-Chlordane	1.7	U
5103-71-9	alpha-Chlordane	1.7	U

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC by SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalysis, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005130

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005130
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SS23-00-01, SB23-1.5-2, SS24-0-1, SB24-3-4, SS49-0-1, SB49-11-12, SS50-0-1, SB47-14-15, SS47-0-1, SS11-0-1, SB11-11-12, SB48-7-8, SS48-0-1, SS18-0-1, SB18-12-13, SS25-0-1, SB25-3-4, SS08-0-1, SB08-6-7, SS05-0-1

The twenty soil samples listed above were received intact, refrigerated between 0.2 and 4.3°C, with proper documentation, in sealed shipping containers, on May 13th and 14th, 2010. The samples were scheduled for the requested analysis of the Pesticide fraction only. SW-846, 3rd Edition, Update 4, Method 8081B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # 1005130 are included in the sample data sections.

Pesticide

Extraction and analysis holding time requirements were met for the samples. The samples in this SDG were further cleaned through the GPC cleanup process. Two analysis of sample SB08-6-7 are reported. The first injection was analyzed with failing continuing calibration verification. The second injection was a miss-injection with passing continuing calibration verification. The entire sample extracted was used in previous analysis.

Target analytes confirmed above the reporting limits in samples SB08-6-7, SB18-12-13, SB48-7-8, SS08-0-1, SS18-0-1, SS25-0-1, SS47-0-1, and SS48-0-1. No target analytes confirmed above the reporting limits in the remaining samples.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG, with the exception mentioned above.

All surrogate recoveries were with the method specified limits, with exceptions in samples SS50-0-1MS, SS24-0-1, SB49-11-12, SS50-0-1, SS47-0-1, SS48-0-1, SS50-0-1MSD, and SB08-6-7RE.

The method blank associated with the samples met all quality control criteria.

Duplicate matrix spike samples were performed with sample SS50-0-1, and did not meet all recovery and precision criteria. The Laboratory Control Sample (LCS) prepared and analyzed with the samples met recovery criteria.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Teresa Amentt Jennings

Teresa Amentt Jennings
GC/HPLC Data Reviewer
June 7, 2010

Manual Integrations									
SDG:	1005130								
Sample(s)	SS50-0-1MS	SS23-00-01	SS23-1.5-2	SS49-0-1	SS50-0-1	SS50-0-1MSD	PBLKBJ	SB47-14-15	SS11-0-1
Compound									
alpha-BHC					X				
gamma-BHC									
beta-BHC			X				X		
delta-BHC								X	
Heptachlor		X	X						X
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane						X			
alpha-Chlordane						X			
Endosulfan I									
4,4'-DDE									
Dieldrin									
Endrin	X								
4,4'-DDD									
Endosulfan II									
4,4'-DDT		X							
Endrin Aldehyde				X					
Endosulfan sulfate							X		
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

Manual Integrations									
SDG:	1005130								
Sample(s)	SS25-0-1	SB25-3-4	SS08-0-1	SS05-0-1					
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC									
delta-BHC		X							
Heptachlor		X		X					
Aldrin									
Heptachlor Epoxide			X						
gamma-Chlordane			X	X					
alpha-Chlordane									
Endosulfan I									
4,4'-DDE									
Dieldrin									
Endrin									
4,4'-DDD									
Endosulfan II	X								
4,4'-DDT	X								
Endrin Aldehyde									
Endosulfan sulfate									
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005130

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
✓	Restek	clpest	0.32	0.5	30
✓	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

GC and GC/MS Volatiles Laboratory	
Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
	* 1.2 cm Carbopack B
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
	* 6 cm of Carboxen 1000 (Carbon molecular sieves)
	* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

Revision 7 (12/6/2005)

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24804

56

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBECHHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS/RDU

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)? NO

Required Analysis (circle/indicate method and container type)

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Compuchem No. (Labnumber)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Preserved: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL PEST. 3550/8081A	Chromium VI, ~~ST~~ 7196A	Metals 6010B/7471A	GRAINSIZE ASTM D422	Total Chromium 6010B	Grain size	
1005130-01	BBG-SS23-00-01-10B	5-10-10	1620	SO	3							X	X	X		X	X	1005166-01	
-02	BBG-SB23-1.5-2-10B	5-10-10	1630	SO	3							X	X	X		X	X		-02
1005129-01	BBG-SS55-00-01-10B	5-11-10	0740	SO	3							X	X	X	X	X			-03
-02	BBG-SB55-2.5-3-10B	5-11-10	0750	SO	3							X	X	X	X	X			-04
-03	BBG-SS54-0-1-10B	5-11-10	0840	SO	3							X	X	X	X	X		1005210-18	
-04	BBG-SB54-4-5-10B	5-11-10	0850	SO	3							X	X	X	X	X		1005166-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (N/A)
625 & Phenol samples checked for chlorine? Y or (N/A)
608 samples checked for pH between 5.0-9.0? Y or (N/A)

Comments

Sample Custody

Relinquished by:	Date/Time:	Received by: K. Manning	Date/Time: 5/13/10 0930		
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Subcontact? (Y) or N If yes, where? Grainsize to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 0.2 °C		

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24805

Page 1 of 1

57

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 CLEVELAND ST STE
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBECCA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS / RDU

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N) NA
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (preservation and container type)

Matrix

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem Use Only	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	(2) SIM PAH 3550B/8270C	TCL PESTICIDES 3550/8081A	CHROMIUM VI (3) 3060A/7196A	METALS 6010B/7471A	GRAINSIZE ASTM D422	TOTAL CHROMIUM 6010B		Grainsize	
1005129-05	BBG-SS53-0-1-10B	5.11.10	0950	SO	3							X	X	X	X	X			1005166-06	
-65	BBG-SS53-0-1-10B-MS	5.11.10	0950	SO	3							X	X	X	X					
-05	BBG-SS53-0-1-10B-SD	5.11.10	0950	SO	3							X	X	X	X					
-06	BBG-SB53-7-8-10B	5.11.10	0955	SO	3							X	X	X	X	X			1005166-07	
1005130-03	BBG-SS24-0-1-10B	5.11.10	1045	SO	3							X	X	X		X	X		1005166-08	
-04	BBG-SB24-3-4-10B	5.11.10	1055	SO	3							X	X	X		X	X		1005166-09	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 5-12-10/ 1300	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain Size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24807

58

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information	Requested Analysis (include method and bottle type)	Matrix
Company Name: CH2M HILL	Project Name: CTO-94		GW - Ground water
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ		WW - Waste water
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT		SW - Surface water
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?		SO - Soil/Sediment
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)		TB - Trip Blank
Sampler's Name: K. ROGERS	Are high concentrations expected? Y or (N) If yes, which ID(s)?		RI - Rinsate
			WP - Wipe
			O - Other

Complete items for Lab Use	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 8270C/3550B	TCL PEST. 3550/8081A	Chromium VI, ## 7196A/3060A	MERCURY 6010B/7471A	GRAINSIZE ASTM D422	TOTAL CHROMIUM (6010B)		Grain size	
1005130-05	BBG-SB49-0-1-10B	5-11-10	1405	SO	3							X	X	X		X	X		1005166-10	
-06	BBG-SB49-11-12-10B	5.12.10	1422	SO	3							X	X	X		X	X			-11
1005129-07	BBG-SB80-0-1-10B	5-12-10	0755	SO	3							X	X	X	X	X				-12
-08	BBG-SB80-3-4-10B	5-12-10	0800	SO	3							X	X	X	X	X				-13
1005130-07	BBG-SS50-0-1-10B	5-11-10	1445	SO	3							X	X	X		X	X		✓	-14
-07	BBG-SS50-0-1-10B-MS	5-11-10	1445	SO	3							X	X	X		X	X			
-07	BBG-SS50-0-1-10B-SD	5-11-10	1445	SO	3							X	X	X		X	X			

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

SB49-11-12-10B Sample time reads 1420 DB 4/13/10

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: Diane Byrd	Date/Time: 5-13-10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24806

59

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: Virginia Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers/RON

Project Information

Project Name: CTO-94
Sampling Location: MCB Camlej
Turnaround time: Per Contract
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (include method and bottle type)

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Comp Chem ID (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL Pest. 3550/8081A	Chromium VI, ~~6010B~~ 7196A	Metals 6010B/7471A	Grain Size ASTM D422	Total Chromium 6010B		Grain Size	
1005129-09	BBG-SB56-0-1-10B	5/11/10	1125	SO	3							X	X	X	X	X			1005166-15	
-10	BBG-SB56-3-4-10B	5/11/10	1130	SO	3		BBG-SB56-3-4-10B					X	X	X	X	X			-16	
-11	BBG-SB58-0-1-10B	5-12-10	1015	SO	3							X	X	X	X	X			-17	
1005130-08	BBG-SB47-11-15-10B	5-12-10	0940	SO	3							X	X	X		X	X		-18	
-09	BBG-SB47-0-1-10B	5-12-10	0910	SO	3							X	X	X		X	X		-19	
-10	BBG-SB11-0-1-10B	5-11-10	1605	SO	3							X	X	X		X	X		-20	
-11	BBG-SB11-11-12-10B	5-11-10	1620	SO	3							X	X	X		X	X		1005209-01	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By: Matt Davis
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by: [signature]	Date/Time: 5/12/10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 4.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24770

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, Ste 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDN

Project Information

Project Name: GTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (Including Method and Bottle Type)

Comp/Chem Lab Use	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (Sharr 1-8oz)	TCL Pest. (8081A) (2-AHL)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B) (1-125ml)	Chromium VI (7196A)	Grain Size (1-8oz.)					Matrix
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X					<2	
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X			1005209-02		
-13	BBG-SS48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X				-03	
1005129-12	BBG-SS52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X				-04	
-13	BBG-SS51-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X				-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or N/A
625 & Phenol samples checked for chlorine? Y or N/A
608 samples checked for pH between 5.0-9.0? Y or N/A

Comments

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grain size to GT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

Matrix codes: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

24771

Page 1 of

CompuChem
a division of Liberty Analytical Corp.

Residual Chlorine Present? Yes ___ No ___

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Client/Reporting Information

Company Name: CH2M Hill
Address: 5700 Cleveland St., Ste 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: Kristin Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Chrom VI (7196A)	Total Chrom (6010B)	Total Metals (6010B)	Grain Size (ASTM D422)	SIM PAH's (8270C)	TCL Pest. (8081A)		Grain size					
1005130-14	BBG-SS18-0-1-10B	5-12-10	1505	SO	3							X	X		X	X	X		1005209-06					
-15	BBG-SB18-12-13-10B	5-12-10	1520	SO	3							X	X		X	X	X							07
1005129-14	BBG-SS60-0-1-10B	5-12-10	1555	SO	3							X		X	X	X	X							08
-15	BBG-SS59-0-1-10B	5-12-10	1640	SO	3							X		X	X	X	X							09
-16	BBG-SB59-9-10-10B	5-12-10	1655	SO	3							X		X	X	X	X							10
1005130-16	BBG-SS25-0-1-10B	5-13-10	1105	SO	3							X	X		X	X	X							11
-17	BBG-SB25-3-4-10B	5-13-10	1110	SO	3							X	X		X	X	X							12

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By: Kelly Bray
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Relinquished by: Sue Foh	Date/Time: 5-13-10 / 1330	Received by: Diane Byrd	Date/Time: 5/14/10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 1.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SJ0015

24776

62

CHAIN OF CUSTODY

Page ____ of ____

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDM

Project Information

Project Name: GO-94
Sampling Location: MCB Camp Lejeune
Turnaround time
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lancaster Lab (LAS) Number	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2 oz	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 4oz	TCL Pest (8081A)	Grain Size (ASTM D422) 4oz	Grain size	Sample Comments
1005132-03	BBG-SB77-0-1-10B	5-13-10	1205	SO	3							X		X	X	X	X	1005209-19	
-04	BBG-SB77-2.5-3.5-10B	5-13-10	1210	SO	3							X		X	X	X	X	container has BBG-SB77-3.5-4.5	
1005130-18	BBG-SB08-0-1-10B	5-13-10	1240	SO	3								X	X	X	X	X	1005210-02	
-19	BBG-SB08-6-7-10B	5-13-10	1300	SO	3								X	X	X	X	X		-03
1005132-05	BBG-SB79-0-1-10B	5-13-10	1510	SO	3							X	[illegible]	X	X	X	X		-04
-06	BBG-SB79-11-12-10B	5-13-10	1530	SO	3							X	[illegible]	X	X	X	X		-05

Lancaster Laboratories Use Only

Sample Unpacked By: Jennifer Bowen
Sample Order Entry By: Jennifer Bowen
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diane Dyer	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? Y or N
On Ice (Y) or N
Cooler Temp: 3.8 °C

JD 5/14/10 client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24775

63

CHAIN OF CUSTODY

Page ____ of ____

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Analysis Requested and Container Preservation Type

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Container Type & Preservation Code	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 20	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 8270	TCL Pest (8081A)	Grain Size (ASTM D422)		Grain size					
1005132-07	BBG-SS83-0-1-10B	5-13-10	1555	SO	3							X		X	X	X	X		1005210-06					
-08	BBG-SB83-6.5-7.5-10B	5-13-10	1605	SO	3							X		X	X	X	X						-07	
-09	BBG-SS62-0-1-10B	5-13-10	1640	SO	3							X		X	X	X	X						-08	
1005130-20	BBG-SS05-0-1-10B	5-14-10	0800	SO	3							X	X	X	X	X	X						-09	
1005134-05	BBG-SB05-7-8-10B	5-14-10	0810	SO	3								X	X	X	X	X						-10	

Lab Use Only

Sample Unpacked By: Jennifer Bowles
Sample Order Entry By:
Samples Received in Good Condition: (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments:

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diana Byrd	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? Y or N If yes, where? (Grain size to CTLABS)	Custody Seal(s) intact? Y or (N)	On Ice? (Y) or N	Cooler Temp: 3.6 °C

Samples stored 60 days after date report mailed at no extra charge.

client delivered

White & Yellow copy to lab • Pink copy for customer

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-01	SS23-00-01	05/10/2010	05/13/2010	05/27/2010	BBG-SS23-00-01-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-01	SS23-00-01	05/10/2010	05/13/2010	06/03/2010	BBG-SS23-00-01-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-02	SB23-1.5-2	05/10/2010	05/13/2010	05/27/2010	BBG-SB23-1.5-2-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-02	SB23-1.5-2	05/10/2010	05/13/2010	06/03/2010	BBG-SB23-1.5-2-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-03	SS24-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS24-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-03	SS24-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS24-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-04	SB24-3-4	05/11/2010	05/13/2010	05/27/2010	BBG-SB24-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-04	SB24-3-4	05/11/2010	05/13/2010	06/03/2010	BBG-SB24-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-05	SS49-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS49-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-05	SS49-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS49-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-06	SB49-11-12	05/11/2010	05/13/2010	05/27/2010	BBG-SB49-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-06	SB49-11-12	05/11/2010	05/13/2010	06/03/2010	BBG-SB49-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-07	SS50-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS50-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-07	SS50-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS50-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-08	SB47-14-15	05/12/2010	05/13/2010	05/27/2010	BBG-SB47-14-15-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-08	SB47-14-15	05/12/2010	05/13/2010	06/03/2010	BBG-SB47-14-15-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-09	SS47-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS47-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-09	SS47-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS47-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-10	SS11-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS11-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-10	SS11-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS11-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-11	SB11-11-12	05/12/2010	05/13/2010	05/27/2010	BBG-SB11-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-11	SB11-11-12	05/12/2010	05/13/2010	06/03/2010	BBG-SB11-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-12	SB48-7-8	05/12/2010	05/13/2010	05/27/2010	BBG-SB48-7-8-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-12	SB48-7-8	05/12/2010	05/13/2010	06/03/2010	BBG-SB48-7-8-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-13	SS48-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS48-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-13	SS48-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS48-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-14	SS18-0-1	05/12/2010	05/14/2010	05/27/2010	BBG-SS18-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-14	SS18-0-1	05/12/2010	05/14/2010	06/03/2010	BBG-SS18-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-15	SB18-12-13	05/12/2010	05/14/2010	05/27/2010	BBG-SB18-12-13-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-15	SB18-12-13	05/12/2010	05/14/2010	06/03/2010	BBG-SB18-12-13-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-16	SS25-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS25-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-16	SS25-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS25-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-17	SB25-3-4	05/12/2010	05/14/2010	05/27/2010	BBG-SB25-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-17	SB25-3-4	05/12/2010	05/14/2010	06/03/2010	BBG-SB25-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-18	SS08-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS08-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-18	SS08-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS08-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-19	SB08-6-7	05/13/2010	05/14/2010	05/27/2010	BBG-SB08-6-7-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-19	SB08-6-7	05/13/2010	05/14/2010	06/03/2010	BBG-SB08-6-7-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-20	SS05-0-1	05/14/2010	05/14/2010	05/27/2010	BBG-SS05-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-20	SS05-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS05-0-1-10B

WORK ORDER

1005130

Printed: 5/28/2010 6:52:04PM

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Received**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/03/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/14/2010 16:00

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 16:33

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005130-07 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A* METALS=TOTAL Cr ONLY*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005130-01 SS23-00-01 [Soil] Sampled 05/10/2010 16:20 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:20	05/13/2010 09:30	
1005130-02 SB23-1.5-2 [Soil] Sampled 05/10/2010 16:30 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:30	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
1005130-03 SS24-0-1 [Soil] Sampled 05/11/2010 10:45 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:45	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005130-04 SB24-3-4 [Soil] Sampled 05/11/2010 10:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
1005130-05 SS49-0-1 [Soil] Sampled 05/11/2010 14:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
1005130-06 SB49-11-12 [Soil] Sampled 05/11/2010 14:22 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:22	05/13/2010 09:30	
1005130-07 SS50-0-1 [Soil] Sampled 05/11/2010 14:45 Eastern					**USE FOR QC**
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:45	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = SVsim- PAH
1005130-08 SB47-14-15 [Soil] Sampled 05/12/2010 09:40 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005130-09 SS47-0-1 [Soil] Sampled 05/12/2010 09:10 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:10	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = SVsim- PAH
1005130-10 SS11-0-1 [Soil] Sampled 05/12/2010 16:05 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:05	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-11 SB11-11-12 [Soil] Sampled 05/12/2010 16:20 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:20	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-12 SB48-7-8 [Soil] Sampled 05/12/2010 11:30 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:30	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
1005130-13 SS48-0-1 [Soil] Sampled 05/12/2010 11:00 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:00	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005130-14 SS18-0-1 [Soil] Sampled 05/12/2010 15:05 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:05	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = SVsim- PAH
1005130-15 SB18-12-13 [Soil] Sampled 05/12/2010 15:20 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:20	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = SVsim- PAH
1005130-16 SS25-0-1 [Soil] Sampled 05/13/2010 11:05 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 11:05	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
1005130-17 SB25-3-4 [Soil] Sampled 05/12/2010 11:10 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:10	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = GC- 8081 DOD
1005130-18 SS08-0-1 [Soil] Sampled 05/13/2010 12:40 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 12:40	05/14/2010 16:00	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Received**

Analysis	Due	TAT	Expires		Comments
1005130-19 SB08-6-7 [Soil] Sampled 05/13/2010 13:00 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 13:00	05/14/2010 16:00	
1005130-20 SS05-0-1 [Soil] Sampled 05/14/2010 08:00 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
Solids, Dry Weight	05/27/2010 16:00	13	11/10/2010 08:00	05/14/2010 16:00	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

5-24-1

DEPT: EXTR **DATE:** 5-24-10

BATCH: 0051830

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0051830-BLK1	PBLKBJ		
2	0051830-BS1	PBJLCS		
3	0051830-MS1	SS50-0-1MS		
4	0051830-MSD1	SS50-0-1MSD		
5	1005130-01	SS23-00-01		
6	1005130-02	SB23-1.5-2		
7	1005130-03	SS24-0-1		
8	1005130-04	SB24-3-4		
9	1005130-05	SS49-0-1		
10	1005130-06	SB49-11-12		
11	1005130-07	SS50-0-1		
12	1005130-08	SB47-14-15		
13	1005130-09	SS47-0-1		
14	1005130-10	SS11-0-1		
15	1005130-11	SB11-11-12		
16	1005130-12	SB48-7-8		
17	1005130-13	SS48-0-1		
18	1005130-14	SS18-0-1		
19	1005130-15	SB18-12-13		
20	1005130-16	SS25-0-1		
21	1005130-17	SB25-3-4		
22	1005130-18	SS08-0-1		
23	1005130-19	SB08-6-7		
24	1005130-20	SS05-0-1		
25				
26				
27				
28				

	RELINQUISHED BY	DATE/TIME	REC. BY	REASON
	MLott	5-24-10 / 11:40AM	GC Refr #3	Storage
	GC #3	5/24/10 1330	AHW	log-in
	AHW	" 1330	GC #4	storage

Rev. 12/29/09:RM

TAJ 72 6/7/10

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005130

1. QC Summary

a. Surrogate Percent Recovery Summary (Form II)

b. Matrix Spike/Matrix Spike Duplicate/
Laboratory Control Sample Summary
(Form III)

c. Method Blank Summary (Form IV)

a. Surrogate Percent Recovery Summary

(Form II)

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC	#	S1 2 %REC	#	TCX 1 %REC	#	TCX 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	PBJLCS	84		74		82		75				0
02	SS50-0-1MS	58		61		69	*	51	*			2
03	SS23-00-01	72		66		84		71				0
04	SB23-1.5-2	85		73		83		70				0
05	SS24-0-1	63		57		64	*	57	*			2
06	SB24-3-4	77		70		82		70				0
07	SS49-0-1	99		72		83		76				0
08	SB49-11-12	83		68		75		61	*			1
09	SS50-0-1	58		58		75		50	*			1
10	SB47-14-15	81		85		86		74				0
11	SS47-0-1	84		81		86		70	*			1
12	SS11-0-1	86		76		90		74				0
13	SB11-11-12	98		89		99		82				0
14	SB48-7-8	94		84		98		83				0
15	SS48-0-1	63		57		65	*	54	*			2
16	SS18-0-1	94		86		100		95				0
17	SB18-12-13	93		87		97		80				0
18	SS25-0-1	99		90		110		93				0
19	SB08-6-7	87		81		93		75				0
20	PBLKBJ	82		85		83		79				0
21	SS50-0-1MSD	63		70		67	*	60	*			2
22	SB25-3-4	100		104		110		106				0
23	SS08-0-1	110		112		120		112				0
24	SB08-6-7RE	16	*	15	*	28	*	26	*			4
25	SS05-0-1	110		113		120		110				0
26												
27												
28												
29												
30												

ADVISORY QC LIMITS

S1 = Decachlorobiphenyl (55-130)
S2 (TCX) = Tetrachloro-m-Xylene (70-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

b. Matrix Spike/Matrix Spike Duplicate/
Laboratory Control Sample Summary

(Form III)

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix Spike - EPA Sample No.: SS50-0-1

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aldrin	7.6	1.2	5.0	50	45-140
beta-BHC	7.6	1.3	6.0	62	60-125
alpha-BHC	7.6	0.96	5.3	57*	60-125
delta-BHC	7.6	0.40	5.2	63	55-130
gamma-BHC (Lindane)	7.6	0.0	4.5	59*	60-125
4,4'-DDD	19	0.67	14	70	30-135
4,4'-DDE	19	0.0	12	63*	70-125
4,4'-DDT	19	0.0	10	53	45-140
Dieldrin	19	0.0	12	63*	65-125
Endosulfan I	7.6	0.0	4.6	60	15-135
Endosulfan II	19	0.0	12	63	35-140
Endosulfan sulfate	19	2.5	29	139*	60-135
Endrin	19	0.92	13	64	60-135
Endrin Aldehyde	19	0.0	7.5	39	35-145
Heptachlor	7.6	0.75	5.6	64	50-140
Heptachlor Epoxide	7.6	0.65	5.7	66	65-130
Methoxychlor	19	0.0	15	79	55-145
Endrin Ketone	19	0.74	14	70	65-135
gamma-Chlordane	7.6	0.80	5.0	55*	65-125
alpha-Chlordane	7.6	1.3	5.1	50*	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix Spike - EPA Sample No.: SS50-0-1

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	7.6	5.2	53	4	40	45-140
beta-BHC	7.6	4.9	47*	20	40	60-125
alpha-BHC	7.6	5.6	61	6	40	60-125
delta-BHC	7.6	5.2	63	0	40	55-130
gamma-BHC (Lindane)	7.6	4.7	62	4	40	60-125
4,4'-DDD	19	14	70	0	40	30-135
4,4'-DDE	19	13	68*	8	40	70-125
4,4'-DDT	19	11	58	10	40	45-140
Dieldrin	19	15	79	22	40	65-125
Endosulfan I	7.6	5.6	74	20	40	15-135
Endosulfan II	19	12	63	0	40	35-140
Endosulfan sulfate	19	18	82	47*	40	60-135
Endrin	19	15	74	14	40	60-135
Endrin Aldehyde	19	6.8	36	10	40	35-145
Heptachlor	7.6	6.4	74	13	40	50-140
Heptachlor Epoxide	7.6	5.6	65	2	40	65-130
Methoxychlor	19	15	79	0	40	55-145
Endrin Ketone	19	14	70	0	40	65-135
gamma-Chlordane	7.6	5.3	59*	6	40	65-125
alpha-Chlordane	7.6	5.4	54*	6	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 20 outside limits
Spike Recovery: 11 out of 40 outside limits

COMMENTS: _____

3F
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

LCS ID: PBJLCS

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aldrin	5.0	3.8	76	45-140
beta-BHC	5.0	3.9	78	60-125
alpha-BHC	5.0	4.1	82	60-125
delta-BHC	5.0	4.6	92	55-130
gamma-BHC (Lindane)	5.0	3.8	76	60-125
4,4'-DDD	13	11	85	30-135
4,4'-DDE	13	10	77	70-125
4,4'-DDT	13	10	77	45-140
Dieldrin	13	11	85	65-125
Endosulfan I	5.0	3.9	78	15-135
Endosulfan II	13	10	77	35-140
Endosulfan sulfate	13	10	77	60-135
Endrin	13	10	77	60-135
Endrin Aldehyde	13	6.8	52	35-145
Heptachlor	5.0	4.6	92	50-140
Heptachlor Epoxide	5.0	4.4	88	65-130
Methoxychlor	13	13	100	55-145
Endrin Ketone	13	11	85	65-135
gamma-Chlordane	5.0	4.2	84	65-125
alpha-Chlordane	5.0	4.6	92	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 20 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBJ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-BLK1 Lab File ID: 027J0051830-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/19/10

Date Analyzed (1): 05/29/10 Date Analyzed (2): 05/29/10

Time Analyzed (1): 0523 Time Analyzed (2): 0523

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBJLCS	0051830-BS1	05/26/10	05/26/10
02	SS50-0-1MS	0051830-MS1	05/26/10	05/26/10
03	SS23-00-01	1005130-01	05/26/10	05/26/10
04	SB23-1.5-2	1005130-02	05/26/10	05/26/10
05	SS24-0-1	1005130-03	05/26/10	05/26/10
06	SB24-3-4	1005130-04	05/26/10	05/26/10
07	SS49-0-1	1005130-05	05/26/10	05/26/10
08	SB49-11-12	1005130-06	05/26/10	05/26/10
09	SS50-0-1	1005130-07	05/26/10	05/26/10
10	SB47-14-15	1005130-08	05/26/10	05/26/10
11	SS47-0-1	1005130-09	05/26/10	05/26/10
12	SS11-0-1	1005130-10	05/26/10	05/26/10
13	SB11-11-12	1005130-11	05/26/10	05/26/10
14	SB48-7-8	1005130-12	05/26/10	05/26/10
15	SS48-0-1	1005130-13	05/26/10	05/26/10
16	SS18-0-1	1005130-14	05/26/10	05/26/10
17	SB18-12-13	1005130-15	05/26/10	05/26/10
18	SS25-0-1	1005130-16	05/26/10	05/26/10
19	SB08-6-7	1005130-19	05/26/10	05/26/10
20	SS50-0-1MSD	0051830-MSD1	05/29/10	05/29/10
21	SB25-3-4	1005130-17	06/04/10	06/04/10
22	SS08-0-1	1005130-18	06/04/10	06/04/10
23	SB08-6-7RE	1005130-19RE1	06/04/10	06/04/10
24	SS05-0-1	1005130-20	06/04/10	06/04/10
25				
26				

COMMENTS: _____

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I), followed by the raw data for samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results

Tabulated results (identification and quantitation) shall be included.

b. Copies of Chromatograms

Positively identified compounds shall be labeled with the names of compounds, either directly out from the peak on the chromatogram, or on a printout of retention times on the data system printout if retention times are printed over the peak on the chromatogram. Included for each sample or sample extract, dilutions, and reanalysis. The chromatogram shall contain the following header information: Client Sample ID number, volume injected (uL), date and time of injection, GC column ID, and GC instrument ID.

c. Copies of Chromatograms from the Second Column

(if necessary)

d. Data System Printout

A printout of retention time and corresponding peak height or peak Area shall accompany each chromatogram. Where edits have been Made, initialing, dating and integration time range are required.

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB08-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	9.0	
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	0.98	J
72-55-9	4,4'-DDE	0.54	J
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

Data File: /chem/tracegc84.i/h100524f.b/084h1005130-19.d

Page 1

Date : 26-MAY-2010 14:20

Client ID: SB08-6-7

Instrument: tracegc84.i

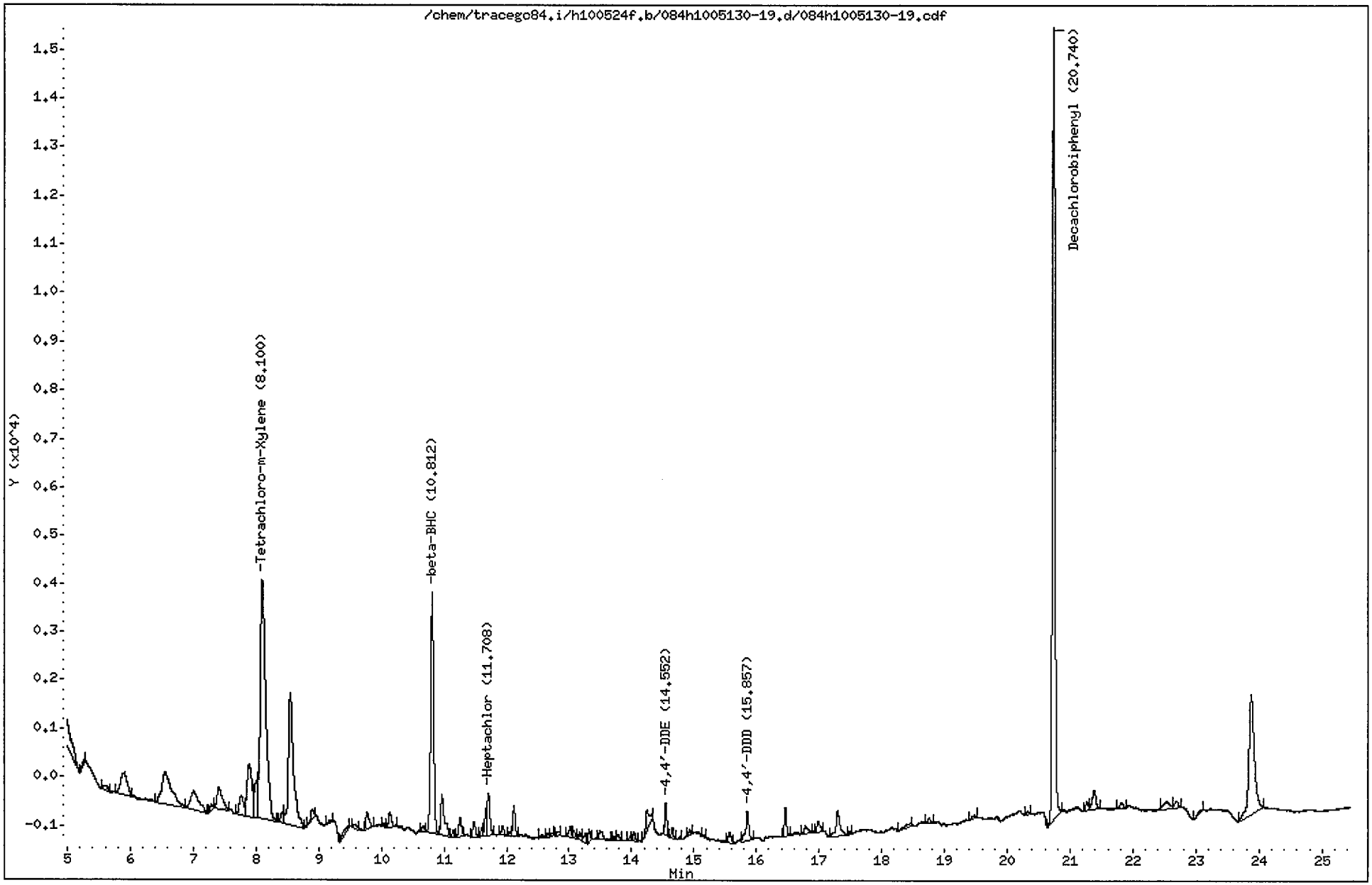
Sample Info: 1005130-19

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-19 Client Smp Id : SB08-6-7
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 14:20 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524f.b/8081A_clpestv6.m
Misc. Info : SB08-6-7

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			8552								
1.63			250								
1.73			5255								
1.81			13421								
2.12			215550								
2.17			500460								
3.21			10520								
3.33			15582								
3.83			92405								
4.47			188								
4.79			53617								
5.27			276								
5.60			526								
5.91			3221								
6.56			7304								
7.01			3662								
7.29			372								
7.41			2675								
7.76			1889								
7.89			5927								
8.02			2515								
8.10	8.08	8.22	30128	539702	Tetrachloro-m-Xylene	0.055823	11.20951		93.0	70 - 125	
8.42			718								
8.54			15449								
8.90			671								
9.17			147								
9.46			590								
9.58			280								
9.77			1348								
10.03			168								
10.13			1047								
10.66			334								
10.81	10.67	10.81	16558	318610	beta-BHC	0.051969	10.43564	1.025301			
10.97			3417								
11.15			346								
11.26			1224								
11.48			980								

6/4/10

CompuChem

Lab Smp Id : 1005130-19 Client Smp Id : SB08-6-7
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 14:20 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524f.b/8081A_clpestv6.m
Misc. Info : SB08-6-7

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.60		422								
11.67		1110								
11.71	11.63 11.77	2733	750482	Heptachlor	0.003640	0.730989	2.048193			J
11.94		535								
12.05		144								
12.12		1528								
12.57		178								
12.65		159								
12.73		132								
12.81		293								
13.01		622								
13.08		323								
13.16		442								
13.26		521								
13.31		557								
13.50		775								
13.72		148								
13.78		318								
13.97		177								
14.04		437								
14.24		1564								
14.55	14.53 14.67	1539	569541	4,4'-DDE	0.002700	0.542253	3.975904			J
14.65		484								
14.78		142								
14.93		254								
15.16		122								
15.57		643								
15.86	15.84 15.98	2045	417785	4,4'-DDD	0.004892	0.982423	3.975904			J
16.46		1417								
16.78		653								
16.98		780								
17.30		2341								
17.48		155								
18.43		588								
18.75		294								
19.48		219								
20.33		171								

CompuChem

Lab Smp Id : 1005130-19 Client Smp Id : SB08-6-7
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 14:20 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524f.b/8081A_clpestv6.m
Misc. Info : SB08-6-7

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.74	20.72 20.86	46241	444411	Decachlorobiphenyl	0.104050	20.89358		86.7	55 - 130	
21.27		553								
21.39		1629								
21.82		452								
22.52		1038								
22.69		503								
23.09		258								
23.87		14938								

Data File: /chem/tracegc84.i/h100524f_2C.b/084h1005130-19.d

Page 1

Date : 26-MAY-2010 14:20

Client ID: SB08-6-7

Instrument: tracegc84.i

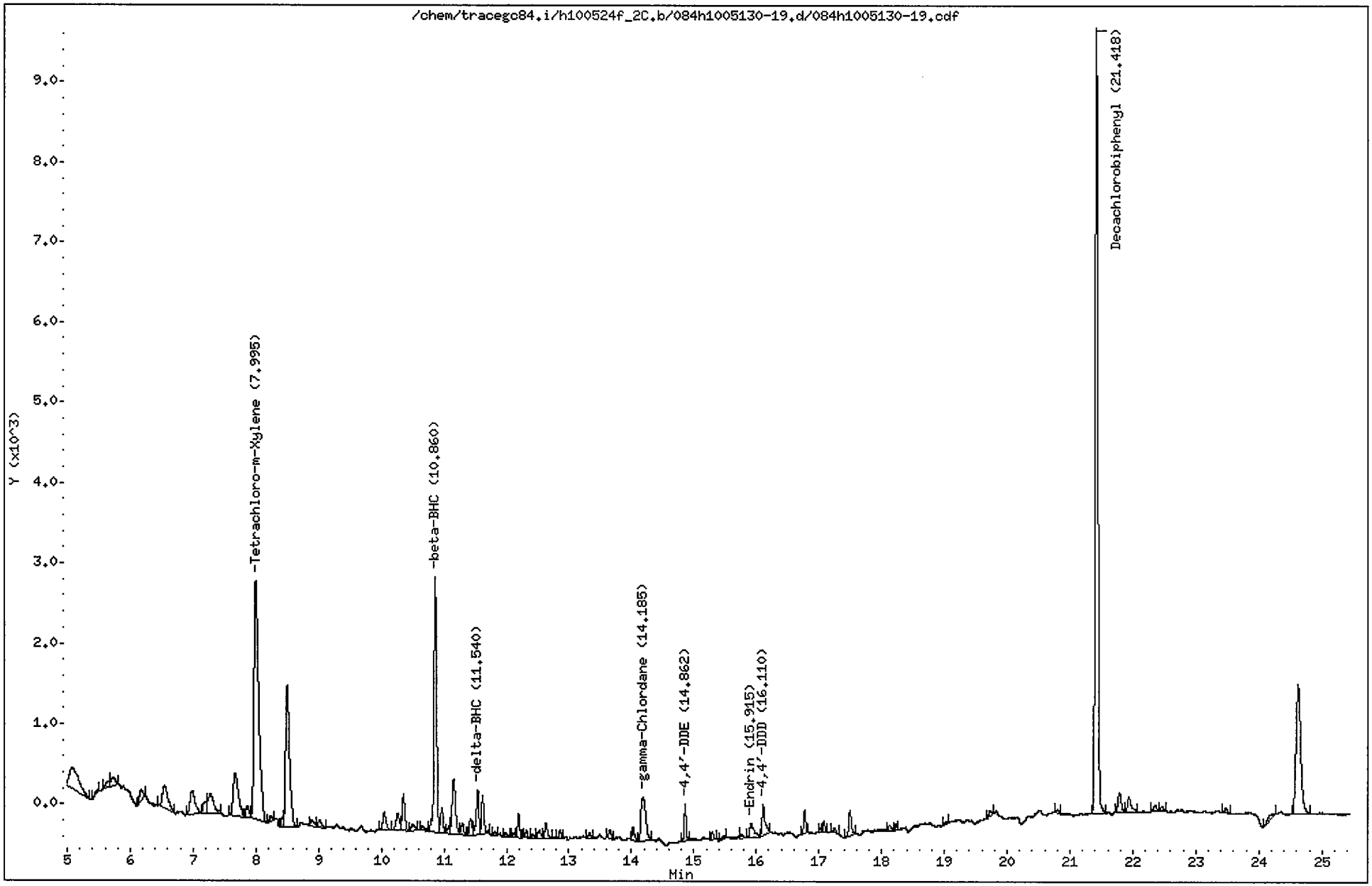
Sample Info: 1005130-19

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-19 Client Smp Id : SB08-6-7
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 14:20 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524f_2C.b/8081A_clpest2v6.m
Misc. Info : SB08-6-7

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.96		42332								
1.99		7324								
2.89		6378								
3.22		52820								
4.10		194								
4.40		21709								
5.07		2905								
5.49		158								
5.65		325								
5.73		553								
6.17		479								
6.54		1791								
6.99		1676								
7.18		503								
7.28		1557								
7.67		3208								
7.86		479								
8.00	7.97 8.11	15505	345165	Tetrachloro-m-Xylene	0.044918	9.019608		74.9	70 - 125	
8.24		205								
8.42		294								
8.50		7669								
8.89		313								
9.01		320								
10.05		834								
10.26		835								
10.35		1329								
10.51		314								
10.65		206								
10.86	10.79 10.93	9161	203322	beta-BHC	0.045052	9.046502	1.025301			
10.96		810								
11.09		290								
11.15		2663								
11.29		421								
11.42		677								
11.54	11.49 11.63	1636	416372	delta-BHC	0.003927	0.788508	2.048193			J
11.62		1312								
11.81		124								

KCA 6/4/10

CompuChem

Lab Smp Id : 1005130-19 Client Smp Id : SB08-6-7
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 14:20 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524f_2C.b/8081A_clpest2v6.m
Misc. Info : SB08-6-7

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.98		161								
12.12		118								
12.19		685								
12.32		227								
12.41		135								
12.52		345								
12.63		600								
12.86		258								
13.33		170								
13.65		372								
14.02		395								
14.18	14.13 14.27	2894	394802	gamma-Chlordane	0.007330	1.471937	2.048193			J
14.86	14.84 14.98	961	352110	4,4'-DDE	0.002729	0.548044	3.975904			J
15.30		221								
15.48		126								
15.77		160								
15.92	15.79 15.93	863	319049	Endrin	0.002702	0.542526	3.975904			J
16.11	16.09 16.23	1268	248368	4,4'-DDD	0.005105	1.025168	3.975904			J
16.77		671								
17.02		95								
17.08		280								
17.25		188								
17.49		927								
18.13		204								
18.23		160								
19.03		110								
19.74		194								
20.80		109								
21.42	21.41 21.55	29229	301734	Decachlorobiphenyl	0.096870	19.45184		80.7	55 - 130	
21.79		827								
21.94		758								
22.35		260								
22.46		229								
23.48		222								
24.23		488								
24.62		8229								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB08-6-7RE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-19RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

Data File: /chem/tracegc84.i/j100528t_2C.b/209j1005130-19.d

Page 1

Date : 04-JUN-2010 20:42

Client ID: SB08-6-7RE

Instrument: tracegc84.i

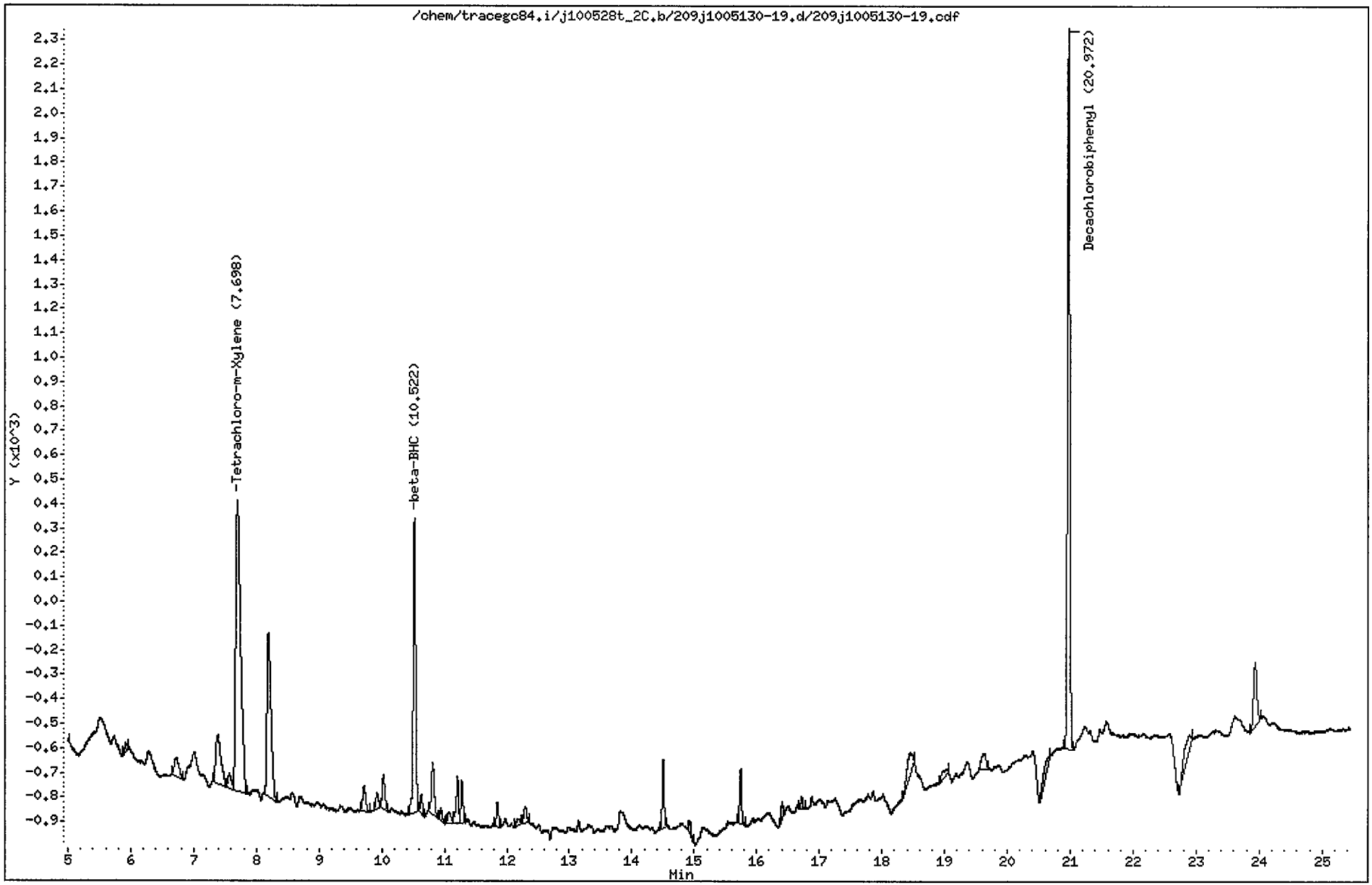
Sample Info: 1005130-19RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-19RE1 Client Smp Id : SB08-6-7RE
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:42 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SB08-6-7RE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

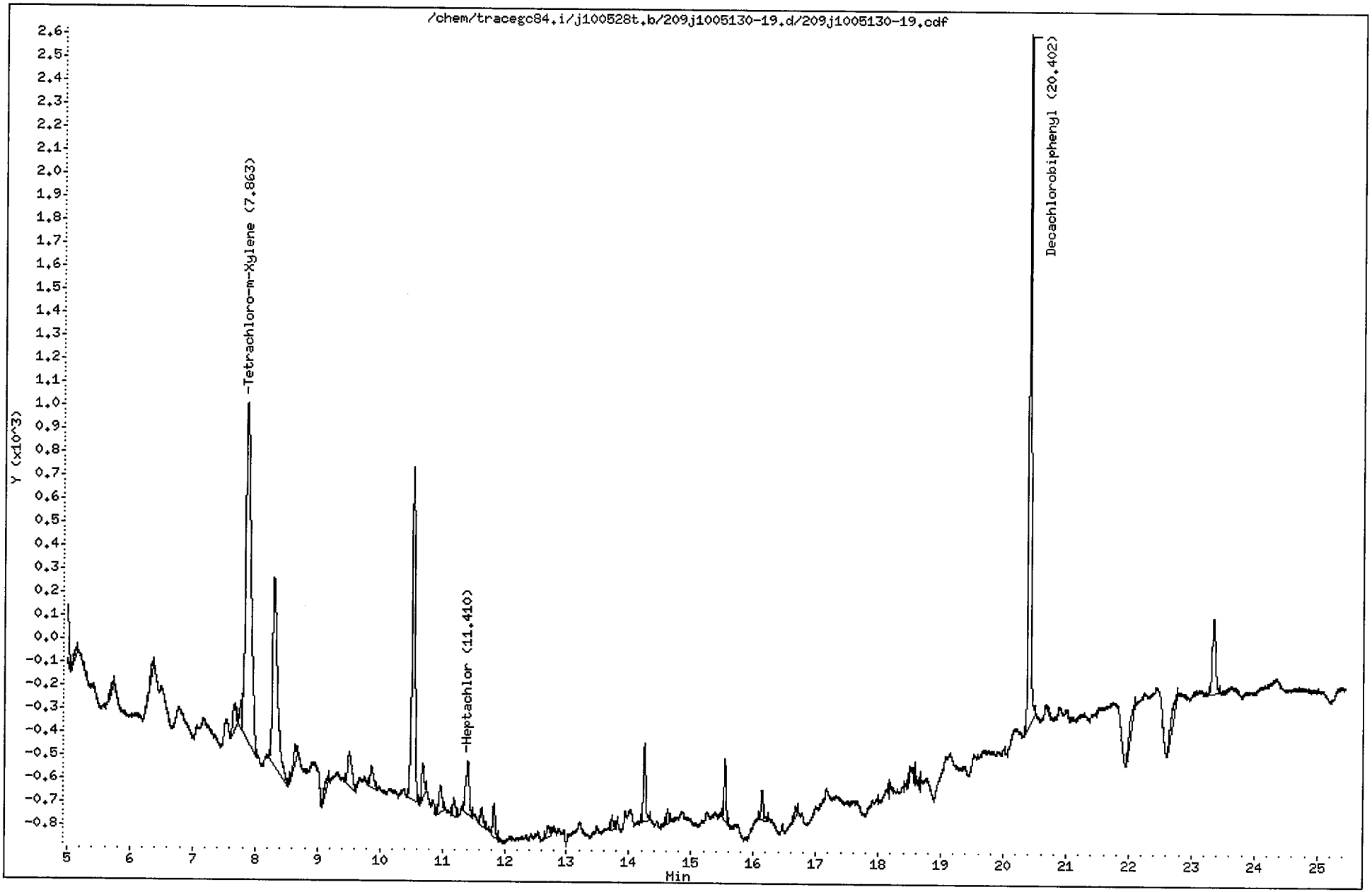
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
2.04		220924								
3.15		9610								
4.23		747								
4.87		735								
5.92		94								
6.73		402								
7.38		1173								
7.56		210								
7.70	7.61 7.75	6429	416798	Tetrachloro-m-Xylene	0.015425	3.097341		25.7*	70 - 125	R
8.20		2900								
9.72		351								
9.93		207								
10.03		395								
10.52	10.41 10.55	3272	248610	beta-BHC	0.013157	2.641999	1.025301			
10.63		179								
10.81		683								
10.95		107								
11.07		167								
11.21		525								
11.28		389								
11.85		224								
12.19		93								
12.29		194								
14.50		587								
14.93		133								
15.74		495								
16.41		148								
16.72		94								
18.45		524								
19.00		169								
19.63		322								
20.68		337								
20.97	20.90 21.04	7524	406698	Decachlorobiphenyl	0.018500	3.714907		15.4*	55 - 130	R
22.90		555								
23.94		953								

Data File: /chem/tracegc84.i/j100528t.b/209j1005130-19.d
Date : 04-JUN-2010 20:42
Client ID: SB08-6-7RE
Sample Info: 1005130-19RE1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-19RE1 Client Smp Id : SB08-6-7RE
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:42 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SB08-6-7RE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.46		241								
1.63		8569								
2.21		240345								
3.14		158								
3.76		15874								
4.66		11860								
5.13		149								
5.73		131								
6.36		206								
7.67		438								
7.78		275								
7.86	7.77 7.91	8648	522758	Tetrachloro-m-Xylene	0.016541	3.321512		27.6*	70 - 125	R
8.29		4481								
8.64		276								
9.16		206								
9.50		676								
9.86		348								
10.53		4801								
10.68		433								
10.97		402								
11.19		239								
11.41	11.29 11.43	861	695465	Heptachlor	0.001237	0.248310	2.048193			J
11.64		242								
11.83		363								
12.70		175								
13.73		139								
14.24		859								
14.62		140								
15.54		603								
16.14		344								
16.67		122								
20.40	20.33 20.47	7683	408350	Decachlorobiphenyl	0.018812	3.777569		15.7*	55 - 130	R
22.09		415								
22.75		354								
23.34		1188								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB11-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.8	JP
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	0.27	JP
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

Data File: /chem/tracegc84.i/h100524e.b/072h1005130-11.d

Page 1

Date : 26-MAY-2010 08:33

Client ID: SB11-11-12

Instrument: tracegc84.i

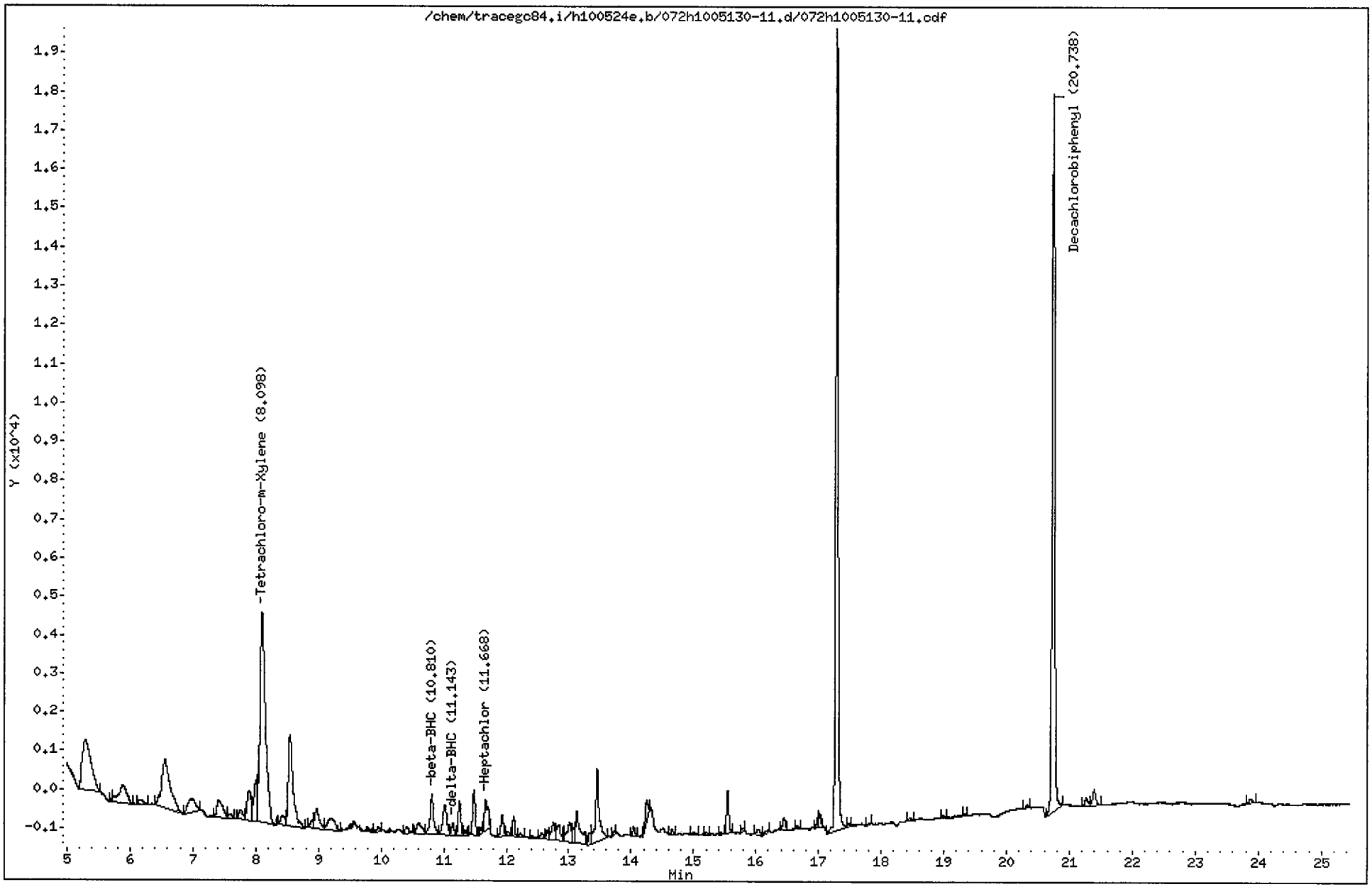
Sample Info: 1005130-11

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-11 Client Smp Id : SB11-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 08:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB11-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49		9987								
1.71		1787								
1.80		1973								
2.08		94623								
2.11		31172								
2.18		212204								
3.21		24731								
3.83		20941								
4.44		181								
4.78		33118								
5.29		12991								
5.72		168								
5.88		4401								
6.17		723								
6.55		12188								
6.98		2925								
7.41		2919								
7.59		448								
7.76		1028								
7.90		3679								
8.01		4411								
8.10	8.08 8.22	32169	539702	Tetrachloro-m-Xylene	0.059605	12.41772		99.3	70 - 125	
8.43		1098								
8.54		12311								
8.90		582								
8.96		2537								
9.20		2573								
9.96		474								
10.40		763								
10.60		1745								
10.81	10.67 10.81	4241	318610	beta-BHC	0.013311	2.773113	1.063750			J
11.02		3557								
11.14	11.11 11.25	928	704062	delta-BHC	0.001318	0.274597	2.125000			J
11.25		2415								
11.34		299								
11.48		3210								
11.60		322								

CompuChem

Lab Smp Id : 1005130-11 Client Smp Id : SB11-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 08:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB11-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.67	11.63 11.77	2982	750482	Heptachlor	0.003972	0.827523	2.125000			J
11.94		1669								
12.03		329								
12.12		1233								
12.23		308								
12.41		156								
12.57		521								
12.65		599								
12.76		1706								
12.84		1737								
12.92		301								
13.02		2346								
13.07		937								
13.13		4259								
13.34		815								
13.46		7720								
13.73		241								
14.04		621								
14.25		1163								
14.66		378								
15.01		180								
15.21		187								
15.45		123								
15.55		2760								
15.79		150								
16.04		489								
16.19		231								
16.44		903								
16.66		188								
16.98		496								
17.02		830								
17.29		55004								
17.48		206								
17.82		131								
18.45		153								
18.99		153								
19.34		123								

CompuChem

Lab Smp Id : 1005130-11 Client Smp Id : SB11-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 08:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB11-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.33		267								
20.74	20.72 20.86	52320	444411	Decachlorobiphenyl	0.117727	24.52636		98.1	55 - 130	
21.27		633								
21.39		1424								
23.89		484								

Data File: /chem/tracegc84.i/h100524e_2C.b/072h1005130-11.d

Page 1

Date : 26-MAY-2010 08:33

Client ID: SB11-11-12

Instrument: tracegc84.i

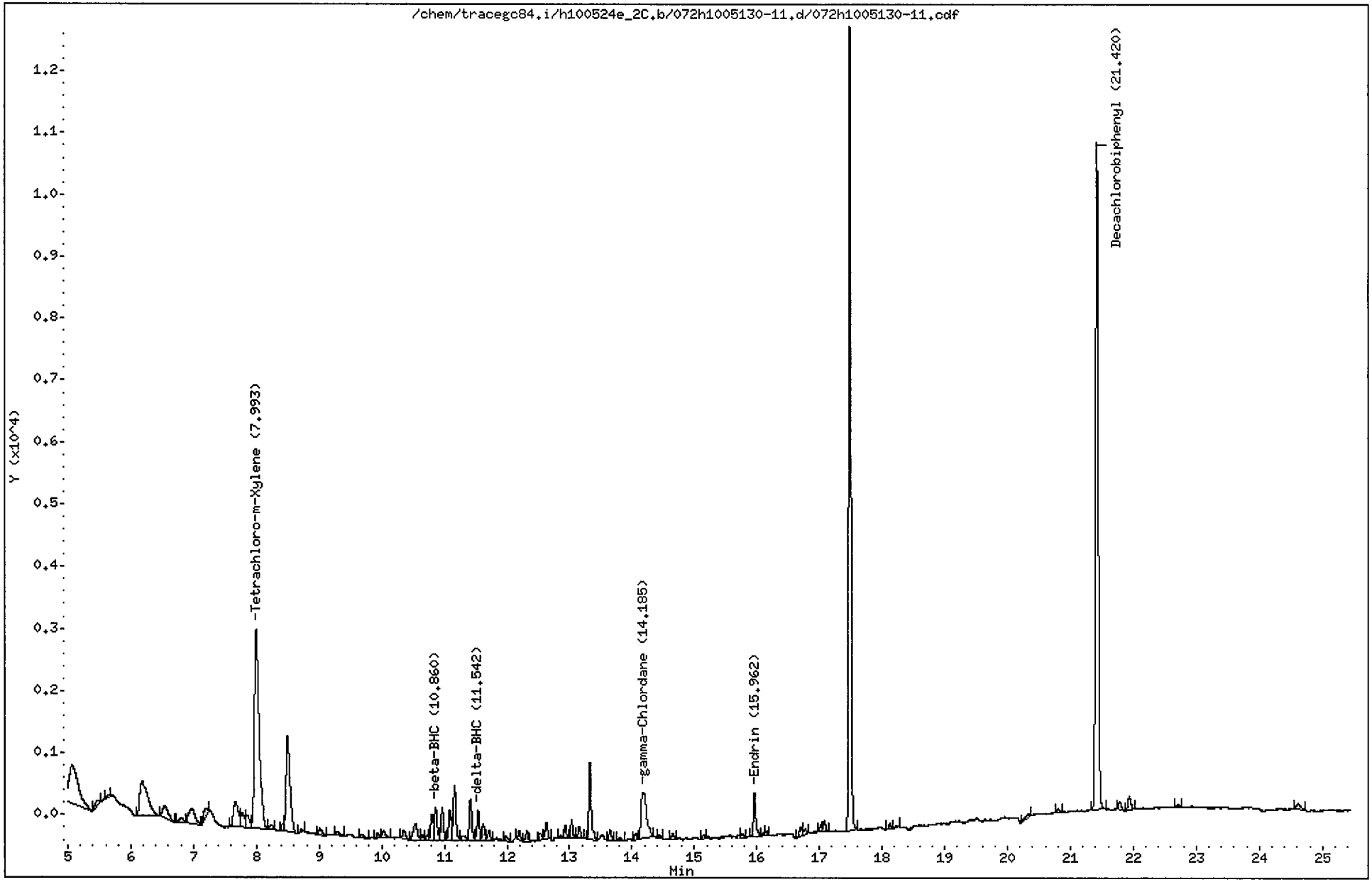
Sample Info: 1005130-11

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-11 Client Smp Id : SB11-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 08:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB11-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.51			12208								
1.71			32206								
1.94			120692								
2.00			35772								
2.02			276117								
2.82			2202								
2.89			9936								
3.20			24574								
3.99			174								
4.39			10545								
5.07			6361								
5.47			371								
5.64			134								
6.18			4916								
6.54			1209								
6.81			290								
6.98			1735								
7.19			524								
7.67			2260								
7.78			864								
7.86			857								
7.99	7.97	8.11	17000	345165	Tetrachloro-m-Xylene	0.049249	10.26019		82.1	70 - 125	
8.23			255								
8.42			328								
8.49			6787								
8.72			158								
9.01			421								
9.30			242								
9.68			234								
9.94			238								
10.03			452								
10.35			427								
10.54			1194								
10.65			222								
10.72			212								
10.80			1132								
10.86	10.79	10.93	1718	203322	beta-BHC	0.008450	1.760340	1.063750			

6/4/10

CompuChem

Lab Smp Id : 1005130-11 Client Smp Id : SB11-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 08:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB11-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.97		1495								
11.09		1504								
11.16		2715								
11.30		331								
11.41		1912								
11.54	11.49 11.63	1314	416372	delta-BHC	0.003156	0.657464	2.125000			J
11.62		733								
11.71		433								
11.98		271								
12.19		349								
12.32		457								
12.53		325								
12.63		758								
12.86		110								
12.93		490								
13.03		674								
13.16		419								
13.33		3238								
13.65		457								
13.80		152								
14.06		244								
14.18	14.13 14.27	4484	394802	gamma-Chlordane	0.011358	2.366162	2.125000			
14.44		121								
14.65		298								
15.15		123								
15.76		185								
15.96	15.83 15.97	1859	319049	Endrin	0.005824	1.213242	4.125000			J
16.10		102								
16.16		165								
16.70		470								
16.77		227								
17.02		238								
17.08		401								
17.48		31967								
18.12		221								
18.23		103								
20.34		278								

CompuChem

Lab Smp Id : 1005130-11 Client Smp Id : SB11-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 08:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB11-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.81		157								
21.42	21.41 21.55	32095	301734	Decachlorobiphenyl	0.106365	22.15944		88.6	55 - 130	
21.79		423								
21.94		659								
22.71		125								
24.62		388								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB18-12-13

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	3.2	P
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	3.9	U
60-57-1	Dieldrin	3.9	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	99	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

Data File: /chem/tracegc84.i/h100524e.b/076h1005130-15.d

Date : 26-MAY-2010 10:29

Client ID: SB18-12-13

Sample Info: 1005130-15

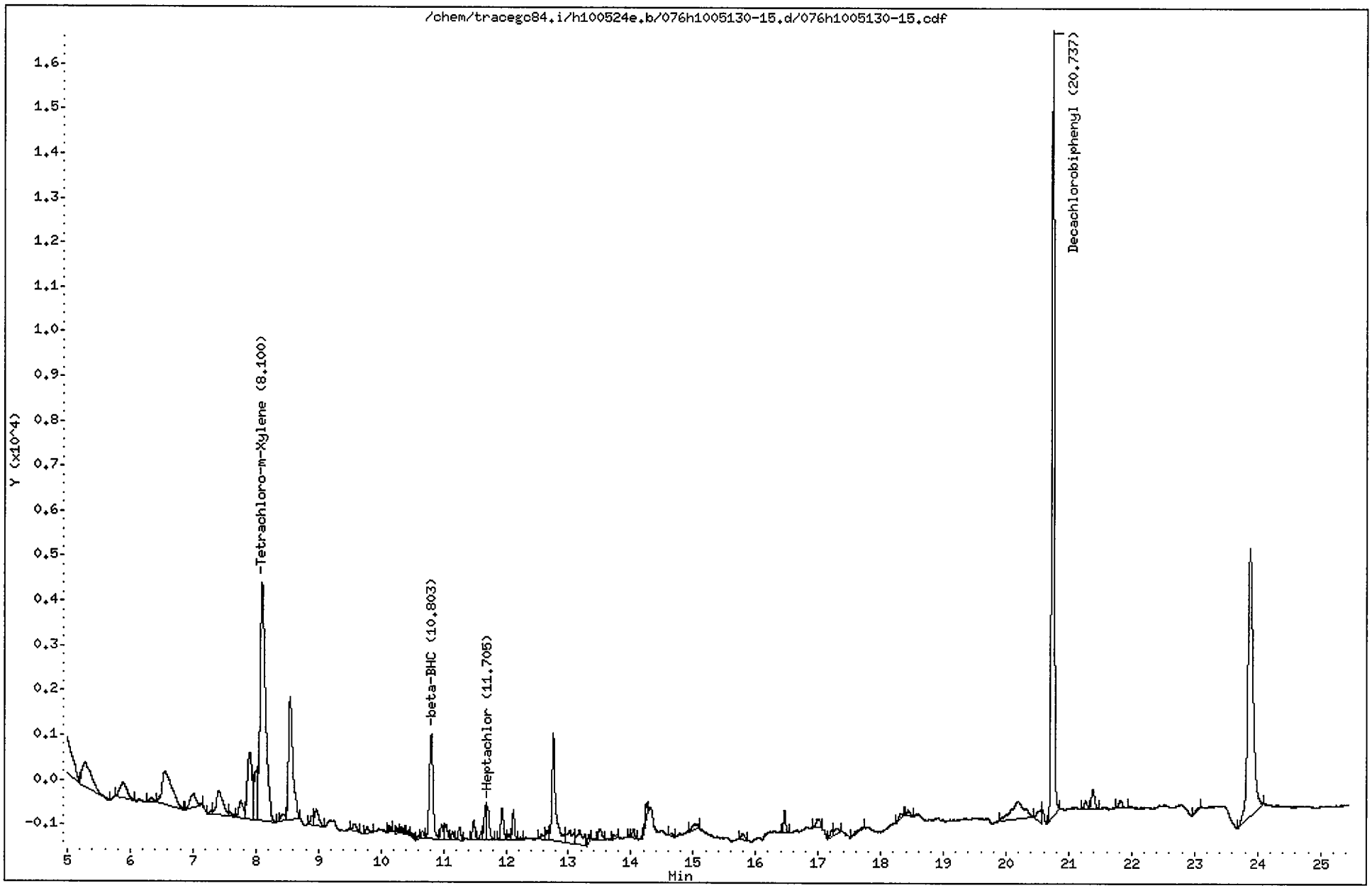
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-15 Client Smp Id : SB18-12-13
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:29 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB18-12-13

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			8742								
1.71			2191								
1.79			1752								
2.08			84814								
2.17			94701								
2.69			7327								
3.14			275								
3.21			831								
3.82			82068								
4.45			4170								
4.78			51396								
5.29			6030								
5.88			2750								
6.33			450								
6.55			8585								
7.01			2308								
7.29			259								
7.41			3937								
7.59			407								
7.76			1839								
7.90			7696								
8.01			4662								
8.10	8.08	8.22	31433	539702	Tetrachloro-m-Xylene	0.058241	11.55582		97.1	70 - 125	
8.42			784								
8.54			13488								
8.89			705								
8.97			1641								
9.57			543								
9.78			548								
10.13			263								
10.23			201								
10.32			264								
10.42			184								
10.60			221								
10.65			550								
10.80	10.67	10.81	9687	318610	beta-BHC	0.030401	6.031905	1.013095			
10.97			1043								

CompuChem

Lab Smp Id : 1005130-15 Client Smp Id : SB18-12-13
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:29 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB18-12-13

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.04		1129								
11.14		476								
11.25		836								
11.48		1294								
11.60		515								
11.67		1823								
11.70	11.63 11.77	2215	750482	Heptachlor	0.002950	0.585338	2.023810			J
11.94		2183								
12.04		305								
12.12		1670								
12.23		140								
12.57		409								
12.65		714								
12.76		9808								
13.02		2033								
13.18		2234								
13.32		502								
13.49		1004								
13.72		360								
13.98		179								
14.04		545								
14.25		974								
14.65		189								
15.02		590								
15.79		480								
16.46		1248								
16.98		851								
17.22		484								
17.30		669								
17.71		466								
18.32		376								
18.44		401								
20.18		5936								
20.57		1370								
20.74	20.72 20.86	49538	444411	Decachlorobiphenyl	0.111467	22.11638		92.9	55 - 130	
21.27		531								
21.38		1527								

CompuChem

Lab Smp Id : 1005130-15 Client Smp Id : SB18-12-13
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:29 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB18-12-13

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.82		602								
23.08		217								
23.87		35531								

Data File: /chem/tracegc84.i/h100524e_2C.b/076h1005130-15.d

Date : 26-MAY-2010 10:29

Client ID: SB18-12-13

Instrument: tracegc84.i

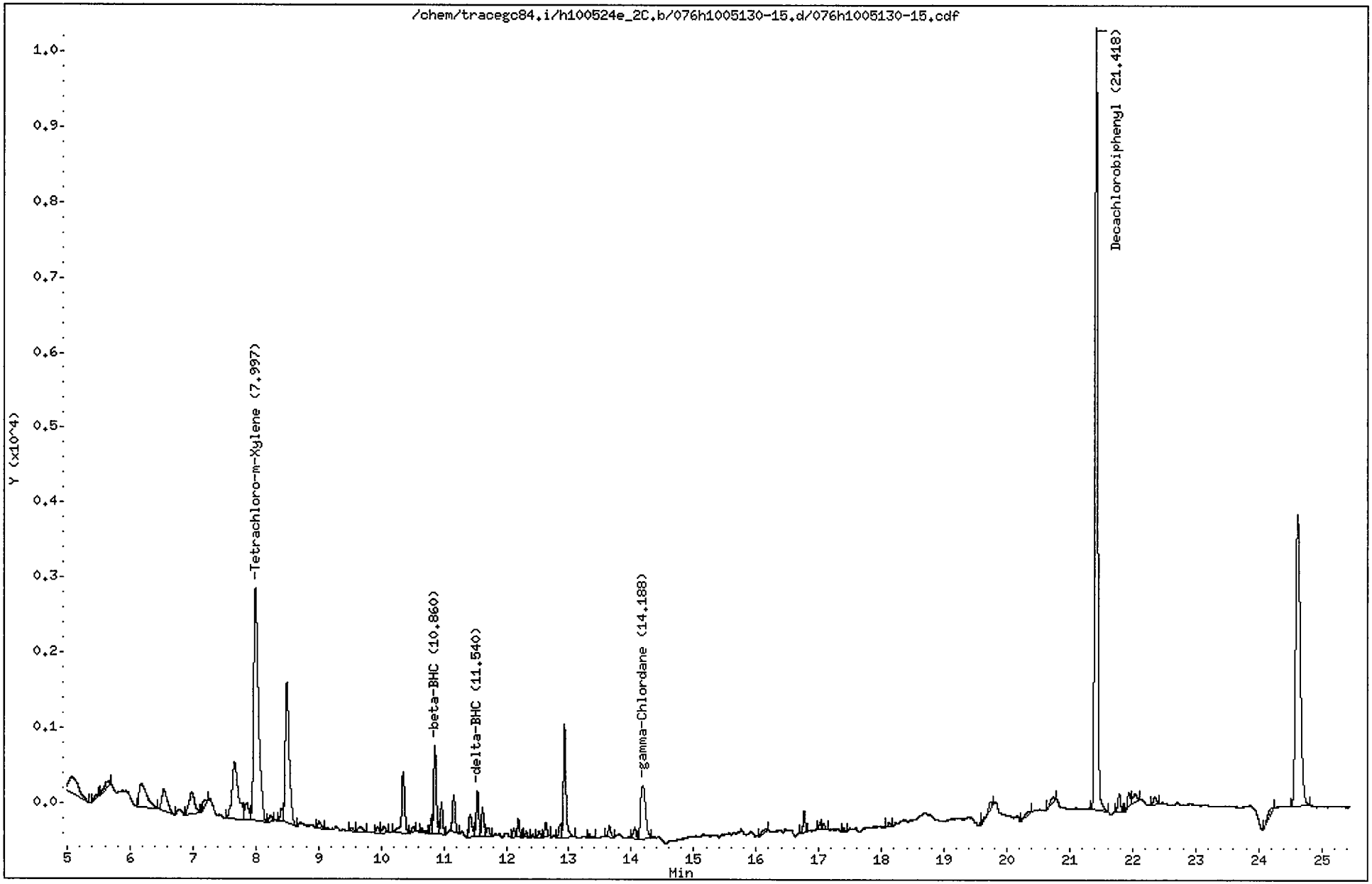
Sample Info: 1005130-15

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-15 Client Smp Id : SB18-12-13
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:29 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB18-12-13

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.52		8199								
1.71		20558								
1.94		90353								
1.99		20969								
2.02		104483								
2.83		664								
2.88		3667								
3.21		43803								
4.08		197								
4.39		21287								
5.08		2515								
5.48		174								
5.63		421								
6.18		2731								
6.54		1780								
6.99		1892								
7.18		358								
7.67		5401								
7.86		1043								
8.00	7.97 8.11	16629	345165	Tetrachloro-m-Xylene	0.048174	9.558346		80.3	70 - 125	
8.24		231								
8.41		502								
8.50		8094								
9.01		336								
9.54		168								
9.68		324								
9.94		251								
10.04		356								
10.35		2807								
10.52		272								
10.65		167								
10.80		410								
10.86	10.79 10.93	3303	203322	beta-BHC	0.016245	3.223240	1.013095			
10.96		1067								
11.16		1438								
11.42		1026								
11.54	11.49 11.63	1705	416372	delta-BHC	0.004092	0.812002	2.023810			J

6/4/10

CompuChem

Lab Smp Id : 1005130-15 Client Smp Id : SB18-12-13
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:29 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB18-12-13

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.62		1016								
11.71		338								
12.12		220								
12.19		534								
12.32		188								
12.53		255								
12.63		519								
12.86		469								
12.93		4295								
13.32		176								
13.64		417								
14.06		415								
14.19	14.13 14.27	3806	394802	gamma-Chlordane	0.009638	1.912248	2.023810			J
16.15		317								
16.77		672								
17.02		190								
17.08		223								
17.40		98								
18.12		138								
19.75		501								
20.36		258								
20.74		378								
21.42	21.41 21.55	31473	301734	Decachlorobiphenyl	0.104304	20.69521		86.9	55 - 130	
21.79		728								
21.94		601								
22.04		426								
22.35		322								
24.23		480								
24.62		20074								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB23-1.5-2

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 19 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	0.47	JP
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

Data File: /chem/tracegc84.i/h100524d.b/059h1005130-02.d

Date : 26-MAY-2010 02:17

Client ID: SB23-1.5-2

Instrument: tracegc84.i

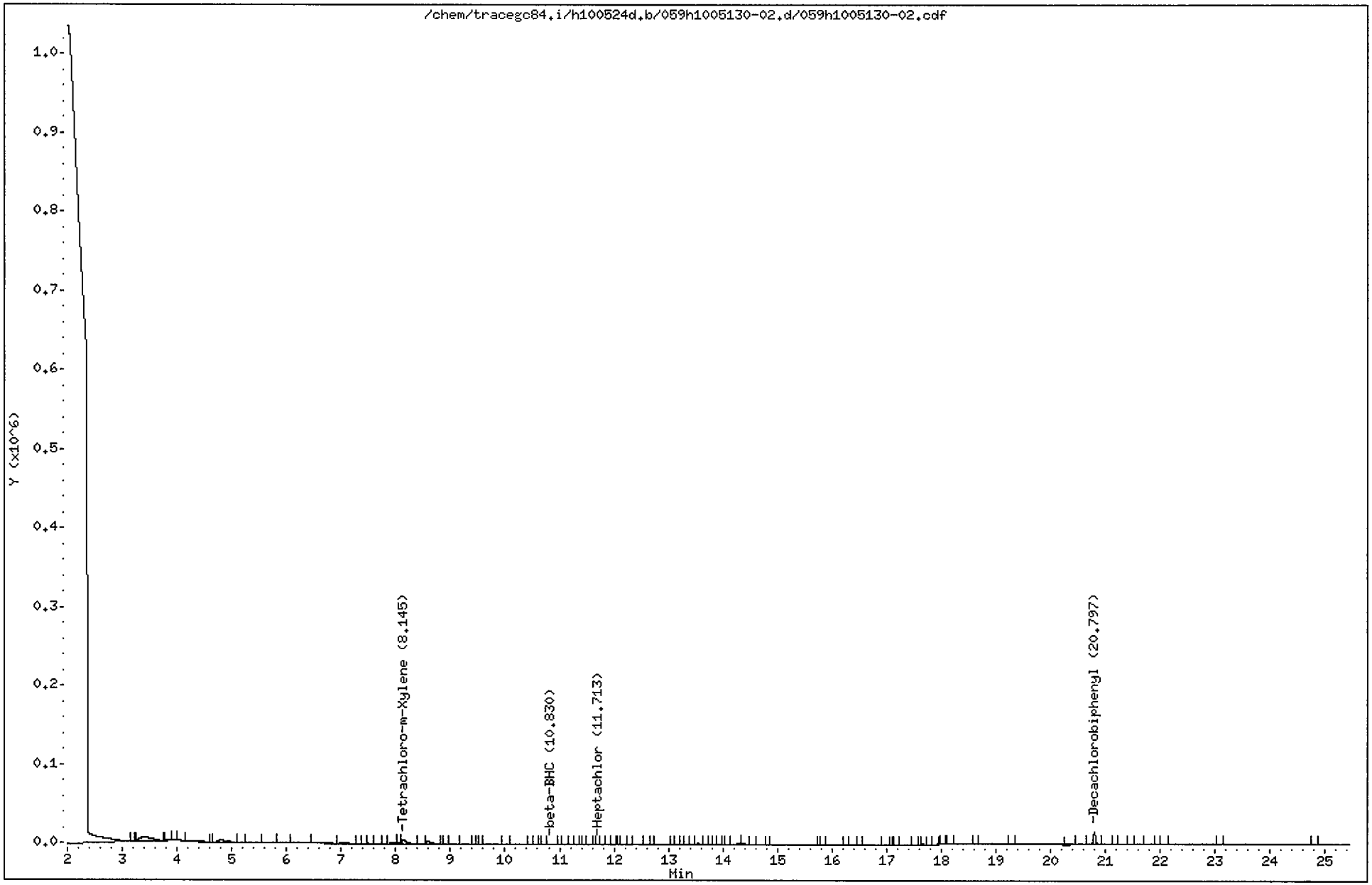
Sample Info: 1005130-02

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-02 Client Smp Id : SB23-1.5-2
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SB23-1.5-2

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 19(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.47		52497678								
3.19		586								
3.25		292								
3.40		74578								
3.86		3812								
3.93		1679								
4.23		8963								
4.80		27941								
5.32		3657								
5.92		2618								
6.60		8334								
7.04		3635								
7.46		734								
7.52		1143								
7.80		352								
7.93		7911								
8.04		3813								
8.14	8.11 8.25	26890	539702	Tetrachloro-m-Xylene	0.049822	10.25142		83.0	70 - 125	
8.46		1198								
8.59		13476								
8.93		217								
9.03		972								
9.43		182								
9.56		190								
10.00		555								
10.48		249								
10.57		184								
10.71		587								
10.83	10.71 10.85	1969	318610	beta-BHC	0.006177	1.270953	1.050617			
11.08		909								
11.20		352								
11.30		888								
11.39		138								
11.46		212								
11.53		1264								
11.64		227								
11.71	11.67 11.81	1576	750482	Heptachlor	0.002100	0.432095	2.098765			JM 2

6/3/10

CompuChem

Lab Smp Id : 1005130-02 Client Smp Id : SB23-1.5-2
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SB23-1.5-2

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 19(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.76		1549								
11.99		838								
12.09		215								
12.16		638								
12.29		144								
12.62		545								
12.70		247								
13.07		235								
13.26		354								
13.31		478								
13.54		2242								
13.77		197								
13.93		202								
14.09		454								
14.29		6554								
14.35		6535								
14.55		332								
14.83		135								
15.77		122								
15.82		361								
16.25		170								
16.51		897								
17.03		674								
17.07		537								
17.21		181								
17.54		266								
17.68		455								
17.92		168								
18.04		146								
18.18		259								
18.64		329								
19.33		155								
20.44		952								
20.60		2529								
20.80	20.77 20.91	45327	444411	Decachlorobiphenyl	0.101993	20.98629		85.0	55 - 130	
21.17		271								
21.32		1615								

CompuChem

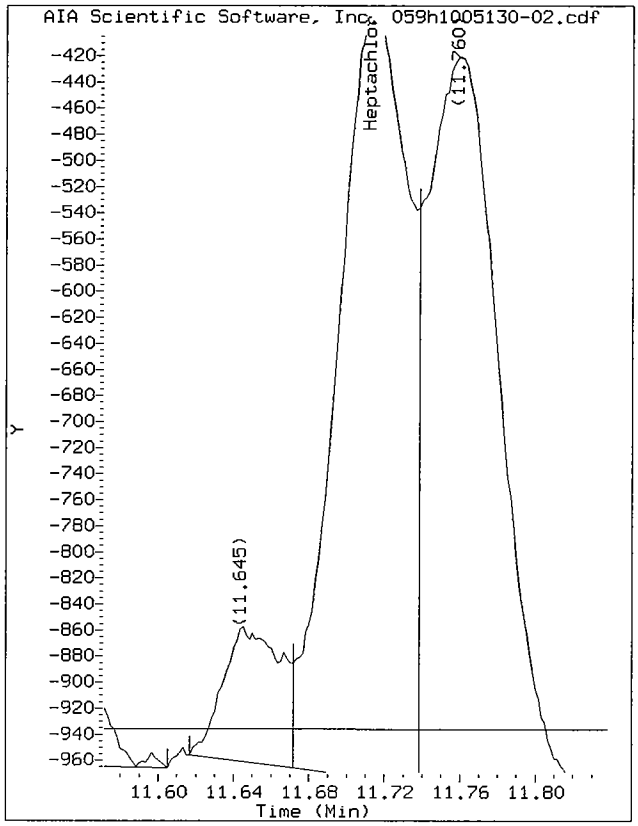
Lab Smp Id : 1005130-02 Client Smp Id : SB23-1.5-2
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SB23-1.5-2

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 19(%)

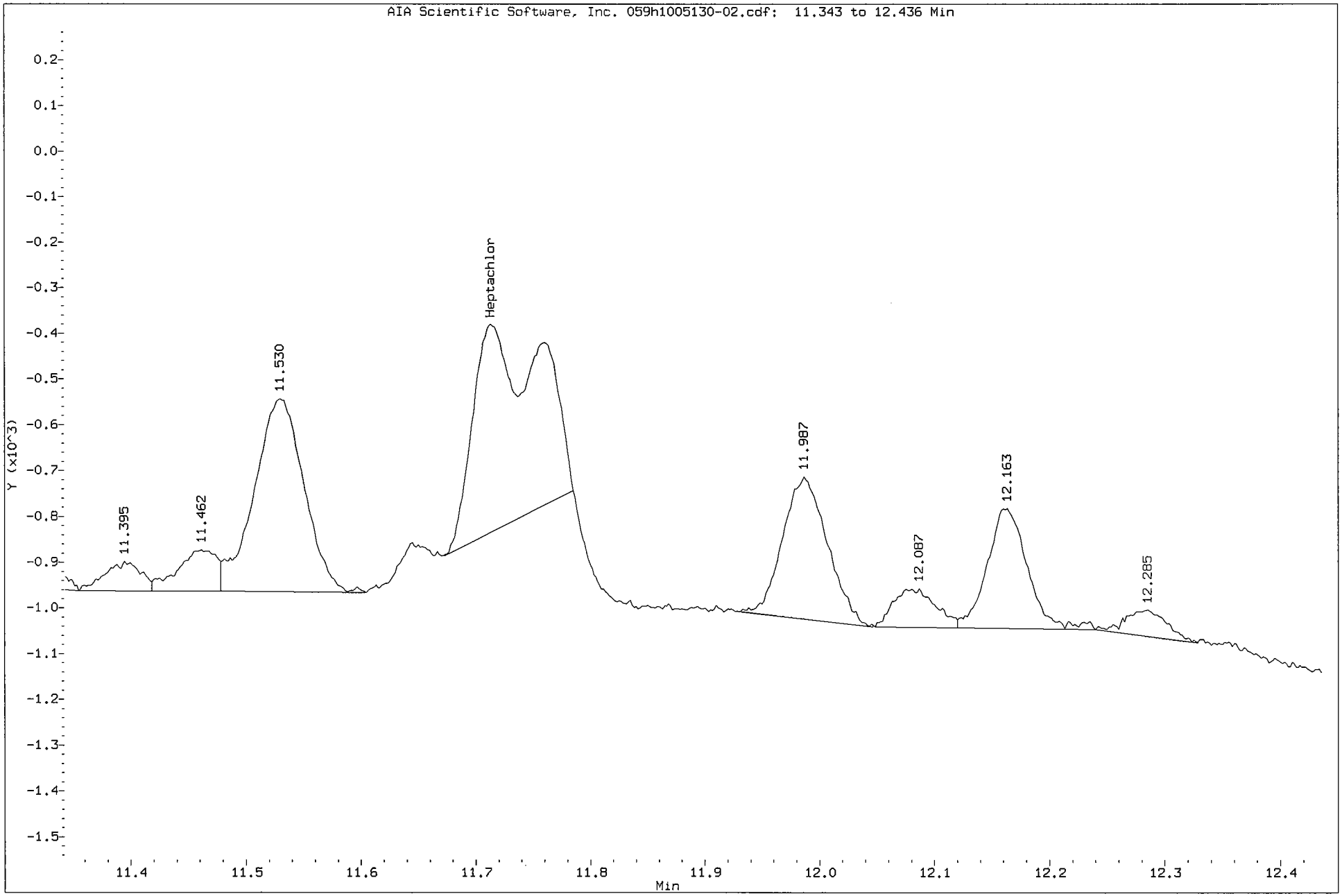
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.44		321								
21.78		1629								
22.06		277								
23.07		336								
24.84		205								

Manually Integrated Peaks



Start: 11.67 Stop: 11.74

Data File: /chem/tracegc84.i/h100524d.b/059h1005130-02.d/059h1005130-02.cdf
Injection Date: 26-MAY-2010 02:17
Instrument: tracegc84.i
Client Sample ID: SB23-1.5-2



Data File: /chem/tracegc84.i/h100524d_2C.b/059h1005130-02.d

Date : 26-MAY-2010 02:17

Client ID: SB23-1.5-2

Instrument: tracegc84.i

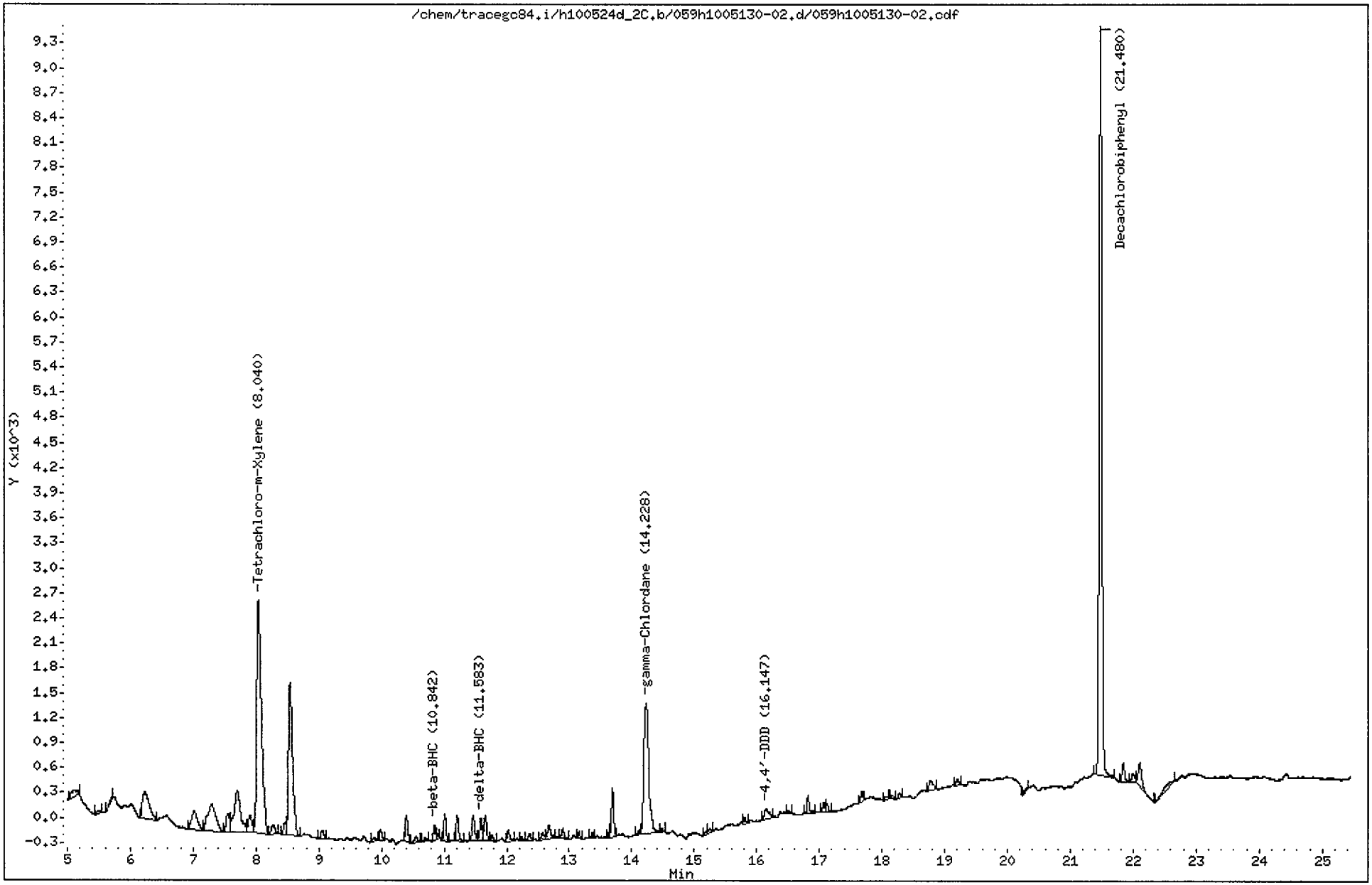
Sample Info: 1005130-02

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



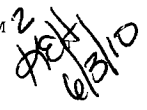
CompuChem

Lab Smp Id : 1005130-02 Client Smp Id : SB23-1.5-2
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SB23-1.5-2

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 19(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.58			40912455								
2.78			559								
2.85			581								
3.19			51354								
3.88			16638								
4.40			15122								
5.11			459								
5.49			134								
5.71			102								
6.23			2517								
7.02			1435								
7.29			2903								
7.55			798								
7.70			3583								
7.90			883								
8.04	8.01	8.15	14497	345165	Tetrachloro-m-Xylene	0.042000	8.642017		70.0	70 - 125	
8.27			463								
8.46			413								
8.54			8217								
9.05			388								
9.89			154								
9.98			350								
10.40			851								
10.55			228								
10.70			120								
10.84	10.83	10.97	469	203322	beta-BHC	0.002307	0.474626	1.050617			JM
10.90			114								
11.01			803								
11.21			853								
11.46			918								
11.58	11.53	11.67	719	416372	delta-BHC	0.001727	0.355313	2.098765			J
11.66			918								
11.76			207								
12.03			380								
12.24			131								
12.37			252								
12.57			261								



CompuChem

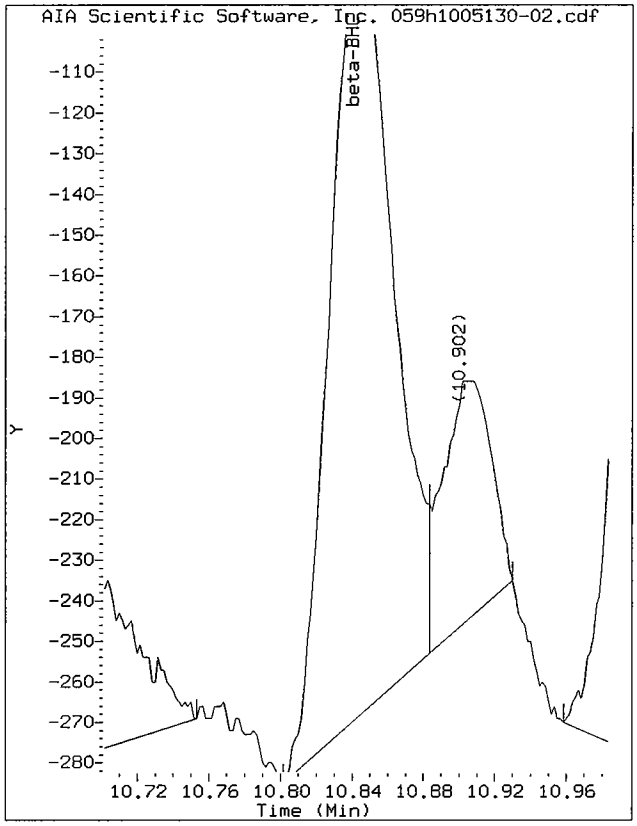
Lab Smp Id : 1005130-02 Client Smp Id : SB23-1.5-2
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SB23-1.5-2

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 19(%)

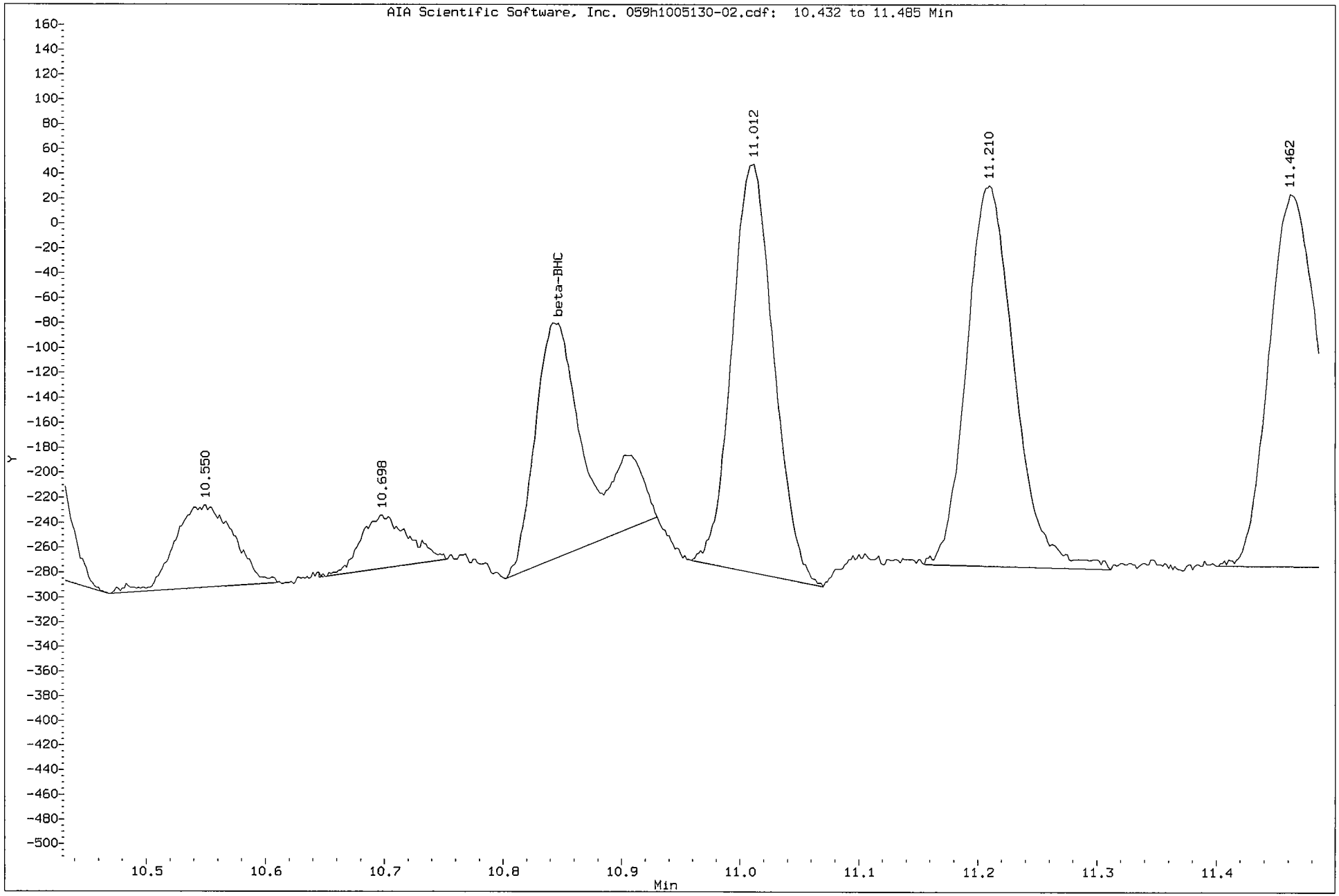
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.68		607								
12.90		346								
13.15		189								
13.37		164								
13.64		114								
13.69		1434								
14.12		129								
14.23	14.17 14.31	8667	394802	gamma-Chlordane	0.021953	4.517026	2.098765			
14.48		111								
15.20		110								
15.25		158								
15.81		191								
16.15	16.12 16.26	572	248368	4,4'-DDD	0.002303	0.473876	4.074074			J
16.50		101								
16.82		576								
17.07		274								
17.13		251								
17.68		298								
18.07		93								
18.17		99								
18.29		150								
18.77		536								
19.20		210								
20.31		109								
21.48	21.45 21.59	26601	301734	Decachlorobiphenyl	0.088157	18.13934		73.5	55 - 130	
21.84		644								
22.00		340								
22.11		1116								
22.64		519								

Manually Integrated Peaks



Start: 10.80 Stop: 10.88

Data File: /chem/tracegc84.i/h100524d_2C.b/059h1005130-02.d/059h1005130-02.cdf
Injection Date: 26-MAY-2010 02:17
Instrument: tracegc84.i
Client Sample ID: SB23-1.5-2



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB24-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

Data File: /chem/tracegc84.i/h100524d.b/061h1005130-04.d

Date : 26-MAY-2010 03:15

Client ID: SB24-3-4

Instrument: tracegc84.i

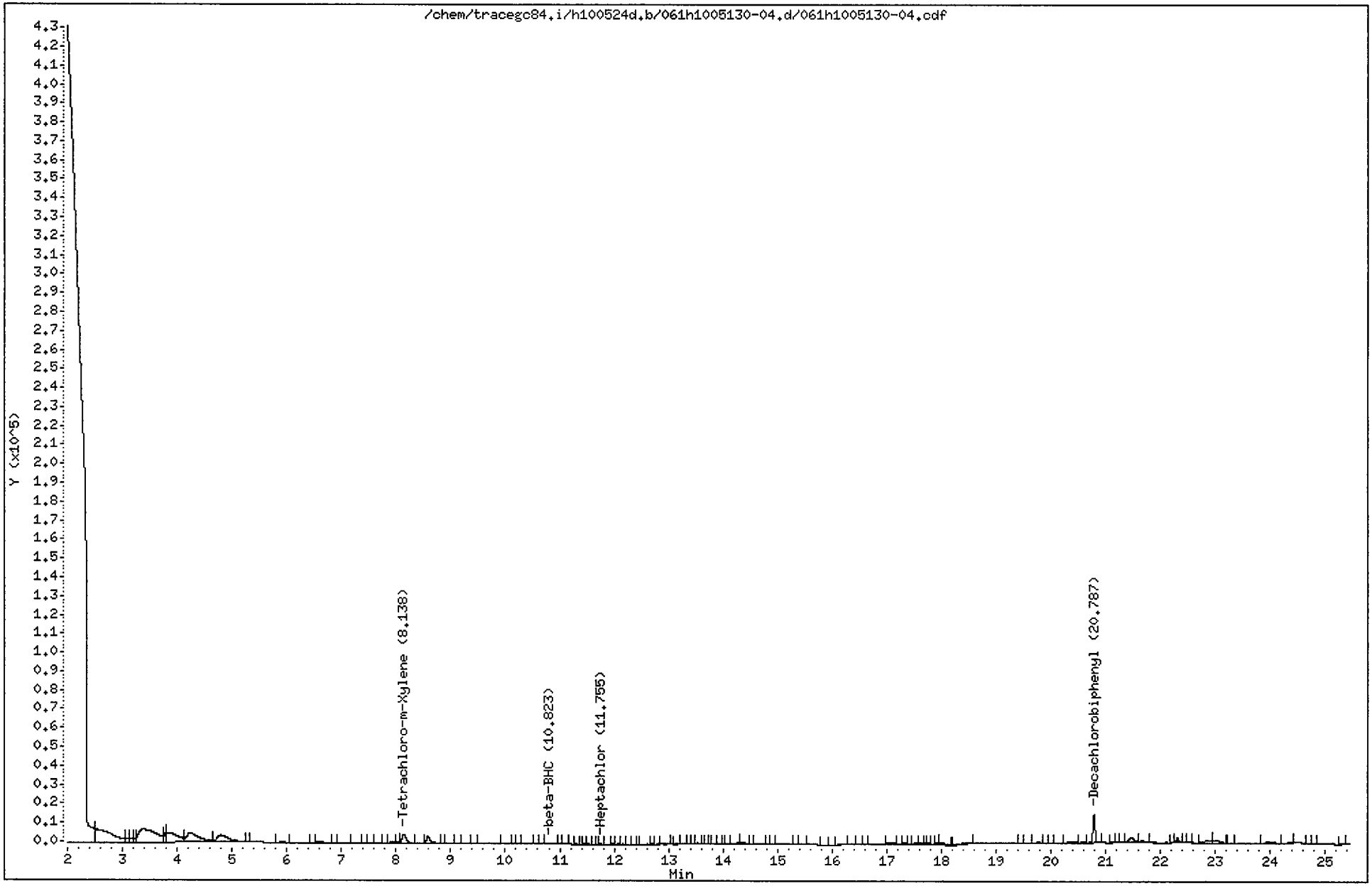
Sample Info: 1005130-04

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-04 Client Smp Id : SB24-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SB24-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48		2199774								
1.52		25937337								
2.53		141996								
3.08		10514								
3.15		9765								
3.21		6097								
3.38		153146								
3.79		14252								
3.84		68200								
4.24		78734								
4.80		52235								
5.30		163								
5.91		2582								
6.50		747								
6.61		4833								
7.03		1761								
7.42		301								
7.51		1144								
7.80		1008								
7.91		4461								
8.04		3031								
8.14	8.11 8.25	26552	539702	Tetrachloro-m-Xylene	0.049197	9.879011		82.0	70 - 125	
8.45		955								
8.58		20699								
8.88		126								
9.12		233								
9.41		740								
9.99		1116								
10.24		124								
10.57		161								
10.82	10.71 10.85	2033	318610	beta-BHC	0.006378	1.280663	1.025301			
11.08		448								
11.29		498								
11.45		213								
11.52		659								
11.64		377								
11.70		322								

6/3/10

CompuChem

Lab Smp Id : 1005130-04 Client Smp Id : SB24-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:15 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SB24-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.76	11.67 11.81	869	750482	Heptachlor	0.001158	0.232514	2.048193			J
11.97		568								
12.07		519								
12.16		475								
12.35		171								
12.61		911								
12.69		573								
12.79		225								
13.06		171								
13.25		606								
13.36		361								
13.53		1713								
13.70		328								
13.76		295								
13.83		417								
13.93		520								
14.07		229								
14.29		5184								
14.35		6587								
14.52		380								
14.82		259								
14.90		180								
15.33		177								
15.48		501								
15.81		484								
16.00		278								
16.23		1804								
16.41		1763								
16.50		1106								
16.61		319								
17.06		3170								
17.33		444								
17.52		361								
17.63		468								
17.77		231								
17.93		205								
18.02		2752								

CompuChem

Lab Smp Id : 1005130-04 Client Smp Id : SB24-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:15 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SB24-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.50		4311								
19.46		267								
19.76		2003								
19.92		274								
20.12		702								
20.38		4006								
20.59		1450								
20.79	20.77 20.91	41010	444411	Decachlorobiphenyl	0.092277	18.52955		76.9	55 - 130	
21.14		127								
21.31		847								
21.46		16904								
21.67		3151								
22.20		122								
22.31		7774								
22.51		275								
22.86		10060								
23.04		9833								
23.30		379								
23.99		3867								
24.42		3349								
24.70		338								
24.83		193								
25.33		1261								

Data File: /chem/tracegc84.i/h100524d_2C.b/061h1005130-04.d

Date : 26-MAY-2010 03:15

Client ID: SB24-3-4

Instrument: tracegc84.i

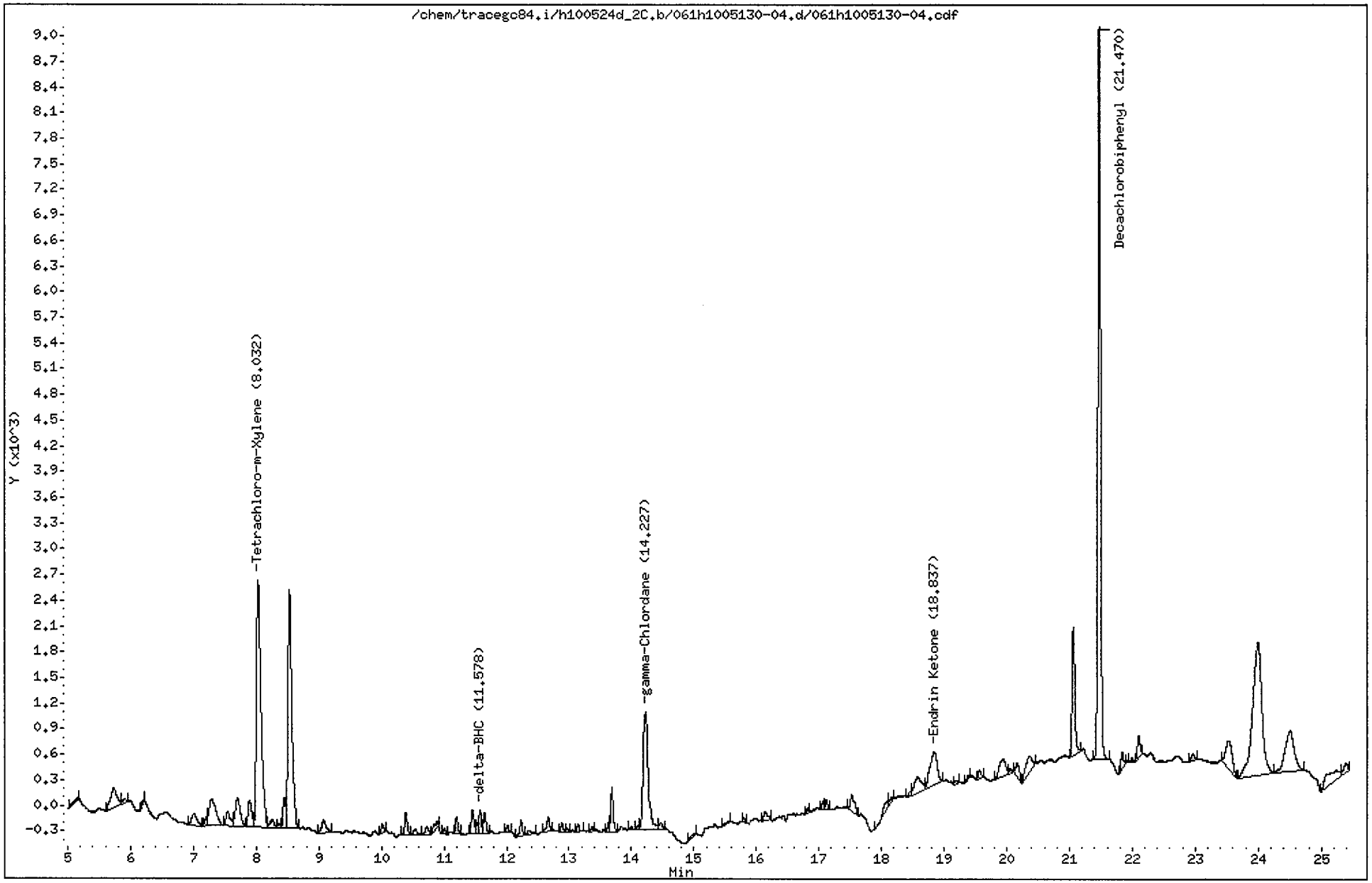
Sample Info: 1005130-04

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-04 Client Smp Id : SB24-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SB24-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.52			18970649								
2.83			51492								
3.19			41724								
3.22			84680								
3.86			44551								
4.40			26088								
5.15			177								
5.74			1721								
5.90			238								
6.21			153								
7.01			744								
7.22			273								
7.29			2321								
7.54			785								
7.71			1879								
7.89			1285								
8.03	8.01	8.15	14606	345165	Tetrachloro-m-Xylene	0.042313	8.496606		70.5	70 - 125	
8.26			430								
8.37			134								
8.45			1028								
8.53			12041								
9.08			734								
10.02			279								
10.39			731								
10.54			272								
10.72			351								
10.84			343								
11.01			144								
11.20			522								
11.45			841								
11.53			278								
11.58	11.53	11.67	739	416372	delta-BHC	0.001772	0.355914	2.048193			J
11.65			688								
12.02			229								
12.23			582								
12.36			212								
12.67			525								

6/3/10

CompuChem

Lab Smp Id : 1005130-04 Client Smp Id : SB24-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:15 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SB24-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.89		261								
12.97		96								
13.14		236								
13.37		119								
13.63		273								
13.69		1405								
13.99		93								
14.11		147								
14.23	14.17 14.31	7879	394802	gamma-Chlordane	0.019957	4.007392	2.048193			
14.47		241								
15.01		154								
15.56		133								
15.80		132								
16.14		450								
16.81		123								
17.06		205								
17.12		259								
17.52		944								
18.11		648								
18.16		232								
18.45		103								
18.57		1427								
18.84	18.80 18.94	3108	304950	Endrin Ketone	0.010189	2.045895	3.975904			J
19.20		90								
19.38		116								
19.57		288								
19.95		1400								
20.06		123								
20.16		684								
20.36		1291								
21.06		4585								
21.47	21.45 21.59	25303	301734	Decachlorobiphenyl	0.083855	16.83843		69.9	55 - 130	
21.84		504								
21.99		128								
22.10		824								
22.95		273								
23.54		2345								

CompuChem

Lab Smp Id : 1005130-04 Client Smp Id : SB24-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:15 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SB24-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.99		15901								
24.50		4845								
25.24		2063								
25.40		511								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB25-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.47	J
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.25	J
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	0.28	J
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	88	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.1	JP
5103-71-9	alpha-Chlordane	1.8	U

Data File: /chem/tracegc84.i/j100528t.b/207j1005130-17.d

Date : 04-JUN-2010 19:44

Client ID: SB25-3-4

Instrument: tracegc84.i

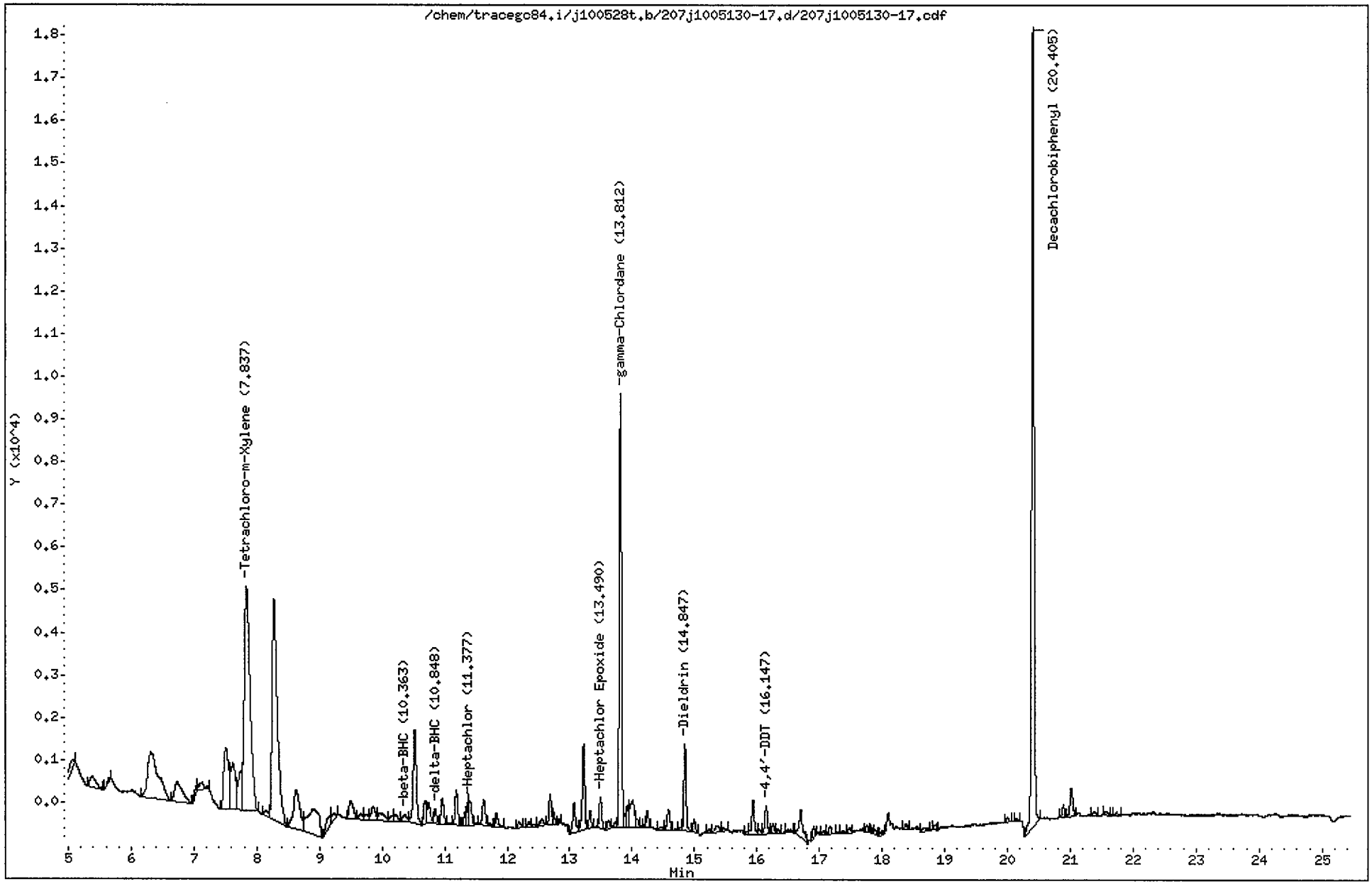
Sample Info: 1005130-17

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-17 Client Smp Id : SB25-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 19:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SB25-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48		37137								
2.09		682536								
3.02		58691								
3.67		110585								
4.26		265								
4.56		14355								
5.07		781								
5.37		1807								
5.66		305								
6.31		13086								
6.73		4228								
7.04		431								
7.13		883								
7.50		8008								
7.62		6076								
7.75		3504								
7.84	7.77 7.91	33964	522758	Tetrachloro-m-Xylene	0.064971	11.51965		108.3	70 - 125	
8.14		588								
8.27		30123								
8.63		6881								
8.91		7691								
9.17		1355								
9.23		724								
9.50		1987								
9.65		590								
9.74		532								
9.86		1403								
9.98		1276								
10.15		437								
10.22		650								
10.36	10.34 10.48	806	300532	beta-BHC	0.002679	0.474925	0.905319			J
10.52		7920								
10.68		1529								
10.74		1670								
10.85	10.77 10.91	955	689518	delta-BHC	0.001384	0.245315	1.808511			J
10.96		1801								
11.19		2470								

CompuChem

Lab Smp Id : 1005130-17 Client Smp Id : SB25-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 19:44 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SB25-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.32		666								
11.38	11.29 11.43	1492	695465	Heptachlor	0.002145	0.380377	1.808511			JM 2
11.40		1565								
11.62		1907								
11.71		275								
11.83		1003								
12.18		465								
12.35		357								
12.43		201								
12.55		608								
12.68		1765								
12.74		684								
12.83		211								
13.07		2180								
13.22		5491								
13.33		1054								
13.49	13.42 13.56	1947	593700	Heptachlor Epoxide	0.003279	0.581460	1.808511			J
13.62		544								
13.72		358								
13.81	13.70 13.84	25115	594875	gamma-Chlordane	0.042217	7.485332	1.808511			
13.89		558								
13.93		1336								
14.01		3275								
14.08		482								
14.12		80								
14.20		144								
14.24		975								
14.47		224								
14.58		1520								
14.78		219								
14.85	14.82 14.96	5213	515556	Dieldrin	0.010111	1.792803	3.510638			J
15.00		730								
15.24		217								
15.36		773								
15.47		270								
15.84		181								
15.94		2380								

6/7/10

CompuChem

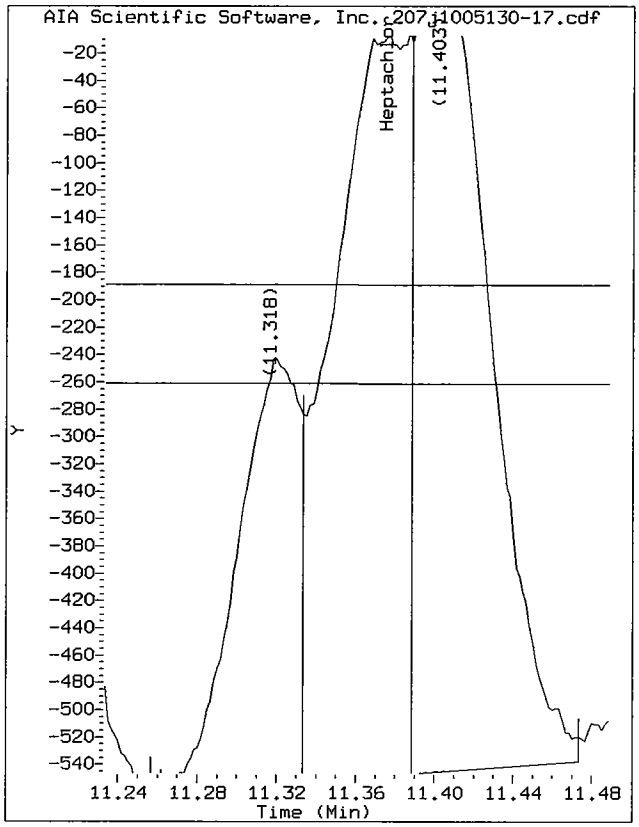
Lab Smp Id : 1005130-17 Client Smp Id : SB25-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 19:44 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SB25-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

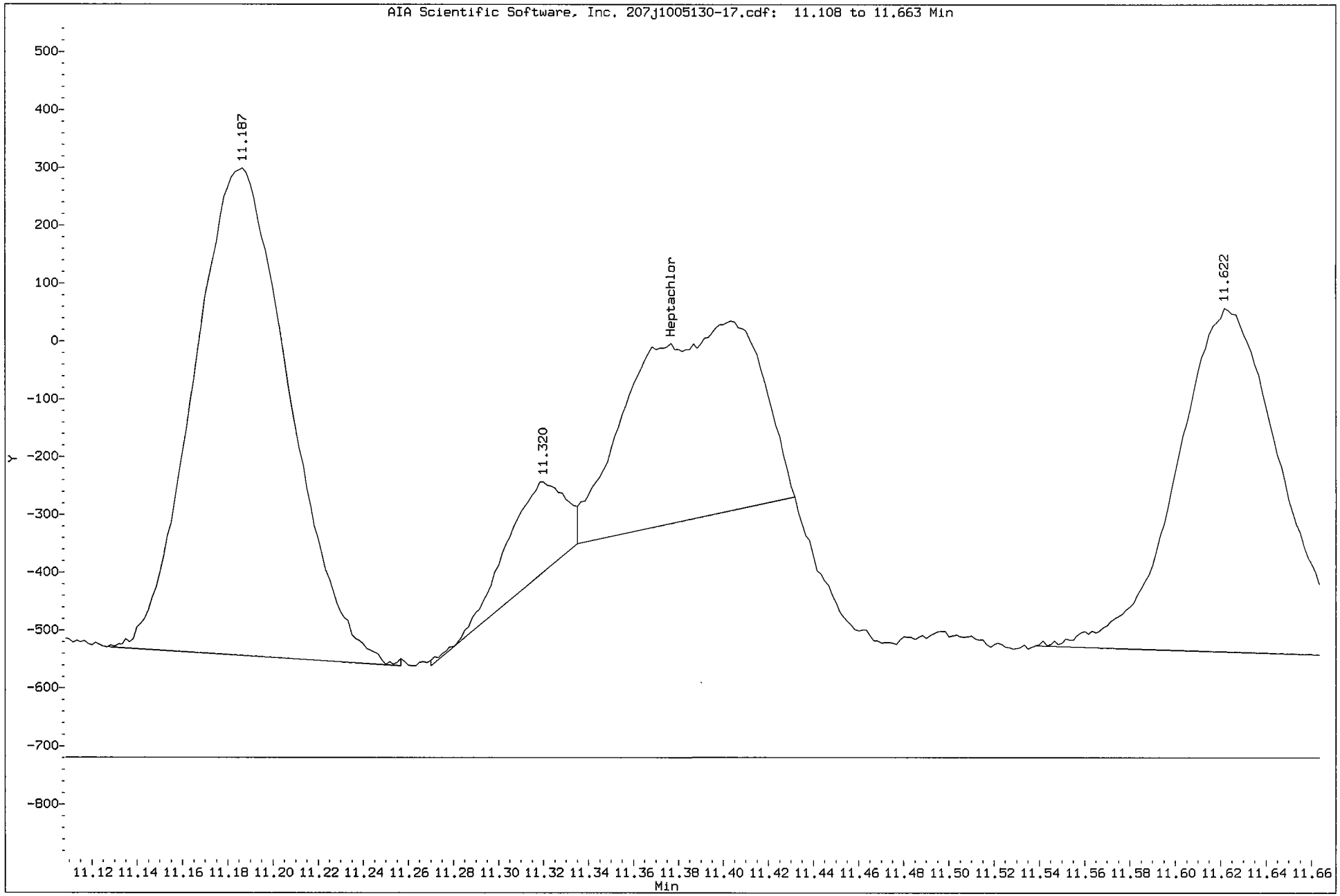
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.04		387								
16.15	16.08 16.22	1914	454781	4,4'-DDT	0.004206	0.745819	3.510638			J
16.26		611								
16.34		302								
16.49		265								
16.70		2526								
16.91		563								
17.06		291								
17.17		558								
17.38		209								
17.48		503								
17.76		358								
17.83		127								
17.89		259								
17.99		238								
18.37		331								
18.66		411								
18.84		365								
20.00		339								
20.15		157								
20.40	20.33 20.47	49767	408350	Decachlorobiphenyl	0.121873	21.60876		101.6	55 - 130	
20.89		695								
21.01		1994								
21.38		351								
21.56		270								
21.73		197								

Manually Integrated Peaks



Start: 11.33 Stop: 11.39

Data File: /chem/tracegc84.i/j100528t.b/207j1005130-17.d/207j1005130-17.cdf
Injection Date: 04-JUN-2010 19:44
Instrument: tracegc84.i
Client Sample ID: SB25-3-4



Data File: /chem/tracegc84.i/j100528t_2C.b/207j1005130-17.d

Date : 04-JUN-2010 19:44

Client ID: SB25-3-4

Instrument: tracegc84.i

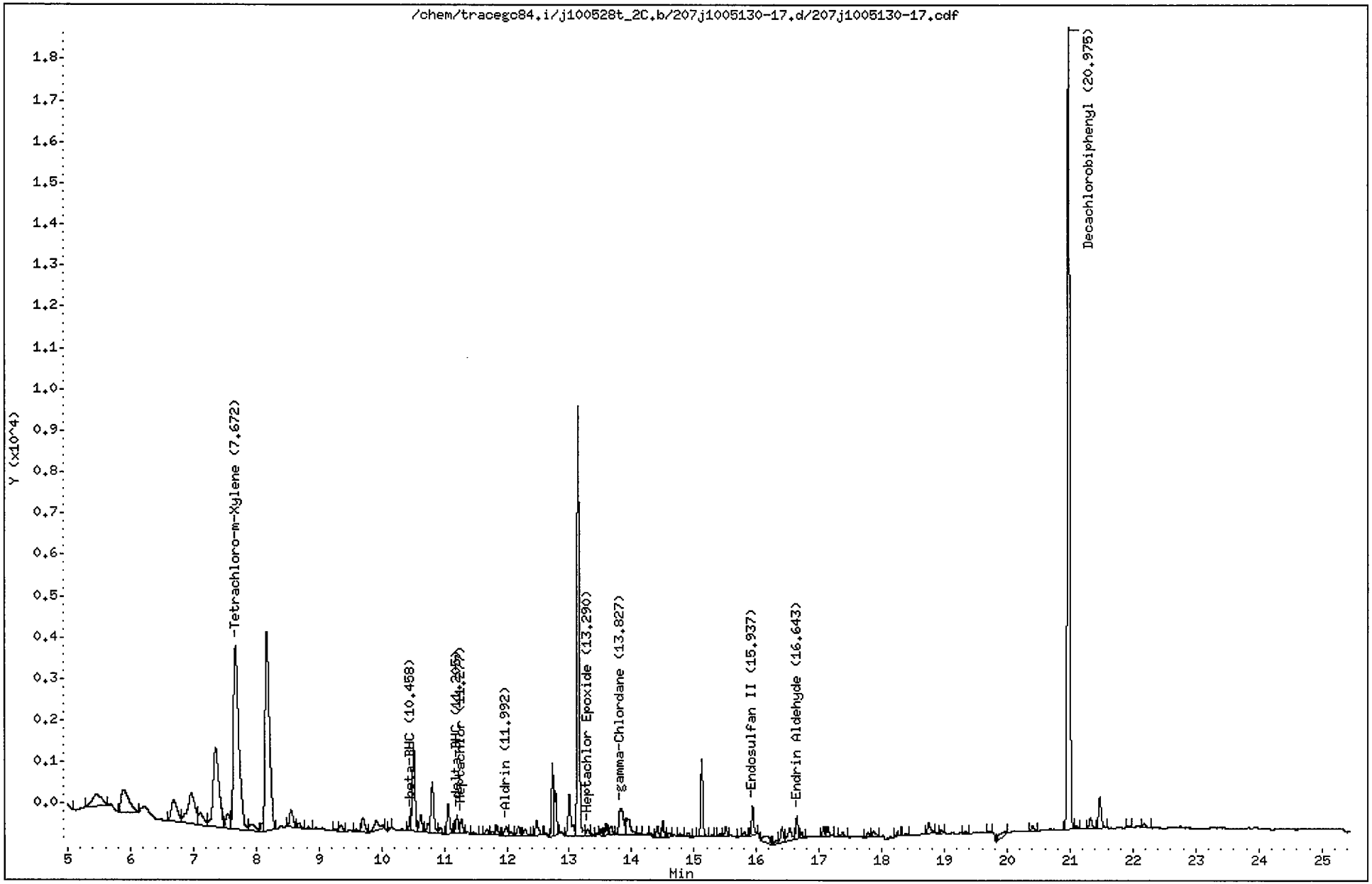
Sample Info: 1005130-17

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-17 Client Smp Id : SB25-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 19:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SB25-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.90			628155								
3.02			134300								
4.14			536								
4.82			5910								
5.45			2969								
5.89			4621								
6.69			3550								
6.97			6242								
7.11			1686								
7.36			12506								
7.54			1549								
7.67	7.61	7.75	26407	416798	Tetrachloro-m-Xylene	0.063357	11.23349		105.6	70 - 125	
7.92			1238								
8.09			453								
8.17			22955								
8.55			1564								
8.68			427								
8.84			165								
9.27			134								
9.34			610								
9.60			187								
9.70			1304								
9.92			1329								
10.14			91								
10.46	10.41	10.55	738	248610	beta-BHC	0.002969	0.526331	0.905319			J
10.51			6068								
10.63			1233								
10.74			647								
10.81			4084								
10.94			418								
11.06			2081								
11.16			178								
11.20	11.11	11.25	1125	551235	delta-BHC	0.002039	0.361535	1.808511			JM2
11.28	11.22	11.36	917	579497	Heptachlor	0.001581	0.280262	1.808511			J
11.47			187								
11.69			491								
11.77			248								

CompuChem

Lab Smp Id : 1005130-17 Client Smp Id : SB25-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 19:44 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SB25-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.84		628								
11.99	11.97 12.11	739	542192	Aldrin	0.001361	0.241337	1.808511			JM 2
12.07		307								
12.19		658								
12.30		526								
12.47		1132								
12.64		174								
12.73		3941								
12.78		2416								
13.00		3357								
13.14		23748								
13.29		476								
13.34		119								
13.44		143								
13.50		315								
13.59		664								
13.67		642								
13.83	13.71 13.85	3319	513150	gamma-Chlordane	0.006468	1.146790	1.808511			J
13.93		2025								
14.10		125								
14.30		170								
14.41		710								
14.50		876								
14.59		245								
14.78		189								
14.91		250								
15.12		4331								
15.29		112								
15.41		180								
15.51		575								
15.75		96								
15.81		276								
15.94	15.86 16.00	1605	404930	Endosulfan II	0.003961	0.702337	3.510638			J
16.17		1100								
16.32		315								
16.41		1051								
16.52		1327								

KEH 6/7/10

CompuChem

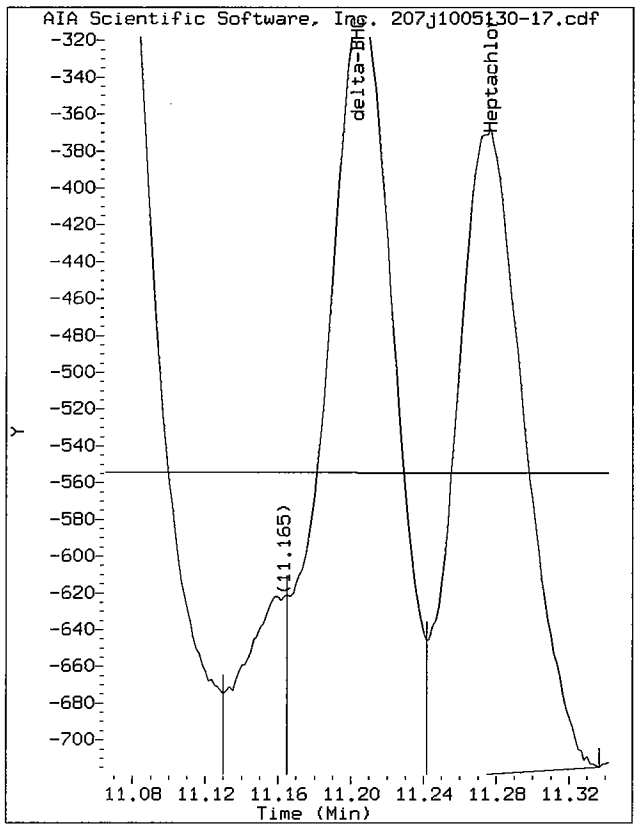
Lab Smp Id : 1005130-17 Client Smp Id : SB25-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 19:44 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SB25-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

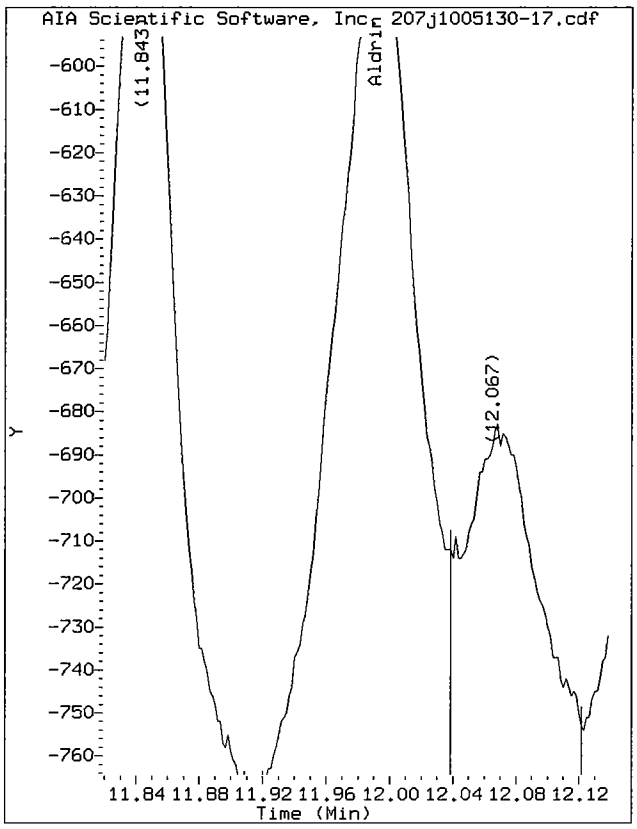
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.64	16.59 16.73	1369	316985	Endrin Aldehyde	0.004319	0.765748	3.510638			J
16.72		337								
17.07		550								
17.14		561								
17.38		344								
17.78		289								
17.86		481								
18.25		232								
18.39		118								
18.75		840								
18.95		216								
19.33		156								
19.71		106								
19.97		872								
20.41		306								
20.98	20.90 21.04	50545	406698	Decachlorobiphenyl	0.124279	22.03530		103.6	55 - 130	
21.10		249								
21.33		719								
21.47		2227								
21.94		137								
22.18		290								

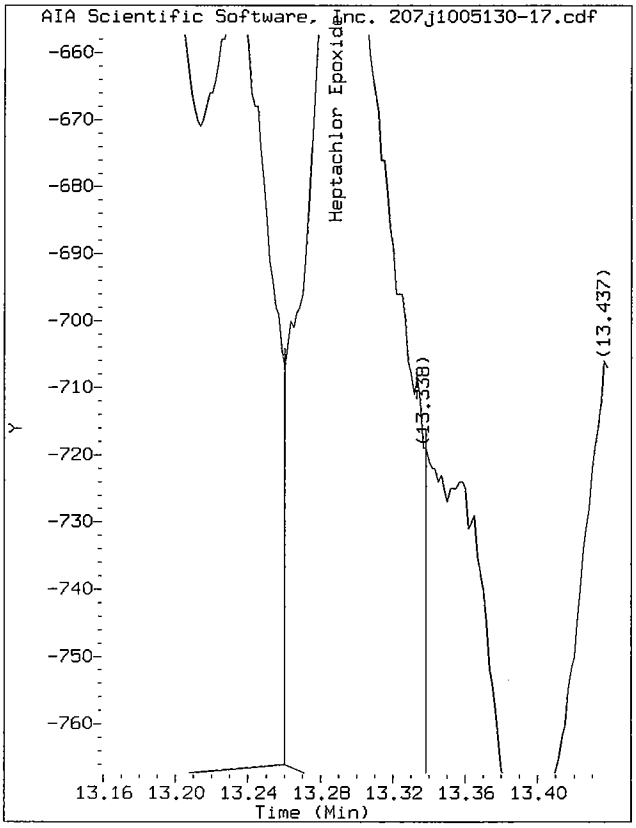
Manually Integrated Peaks



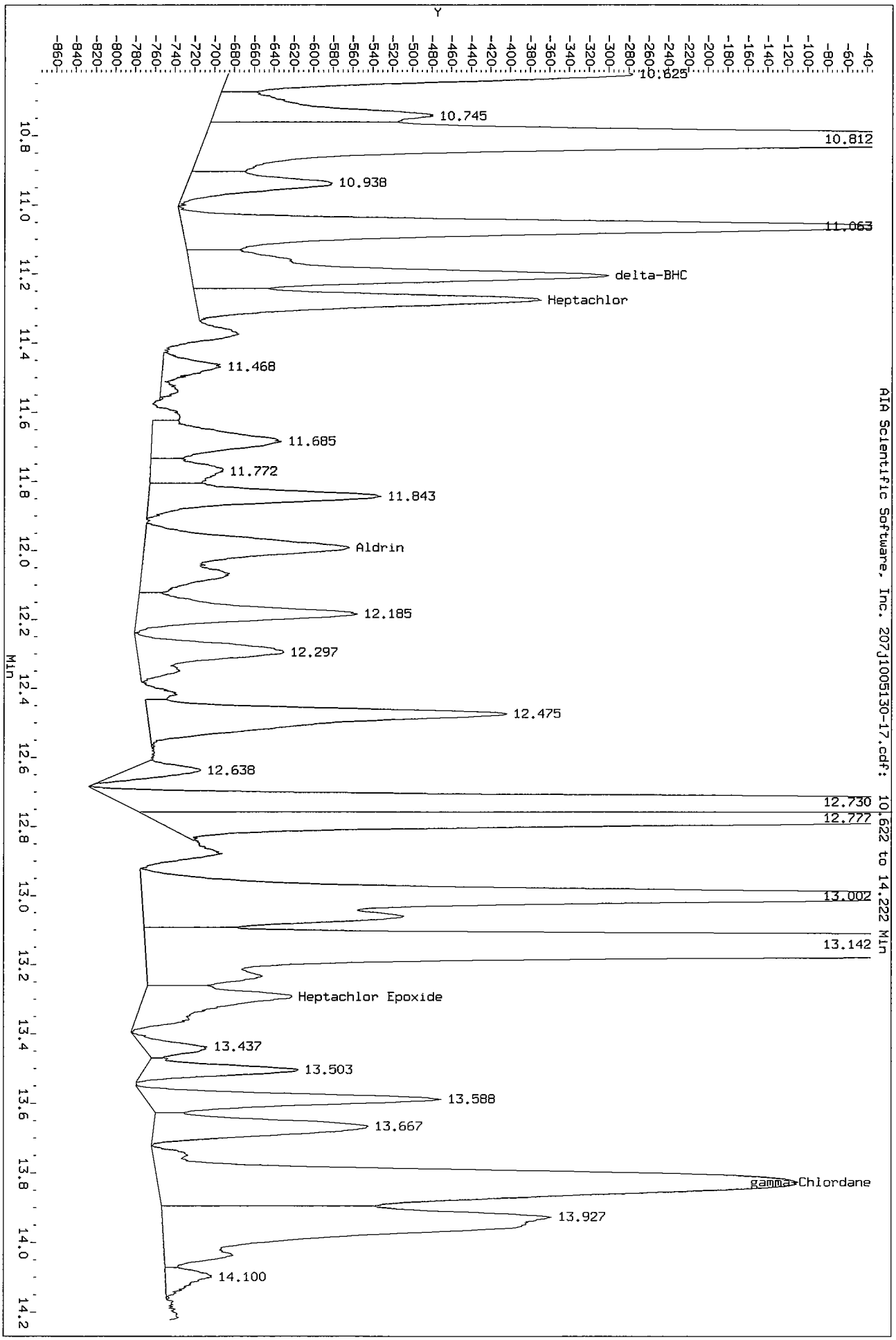
Start: 11.16 Stop: 11.24



Start: 11.92 Stop: 12.04



Start: 13.26 Stop: 13.34


Data File: /chem/tracegc04.i/j100528t_2C.b/207j1005130-17.d/207j1005130-17.cdf
Injection Date: 04-JUN-2010 19:44
Instrument: tracegc04.i
Client Sample ID: SB25-3-4
AIA Scientific Software, Inc. 207j1005130-17.cdf: 10.622 to 14.222 Min
Y
Min
10.625
10.745
10.812
10.938
11.063
delta-BHC
Heptachlor
11.468
11.685
11.772
11.843
Aldrin
12.185
12.297
12.475
12.638
12.730
12.777
13.002
13.142
Heptachlor Epoxide
13.437
13.503
13.588
13.667
gamma-Chlordane
13.927
14.100

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

SB47-14-15

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 31 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.5	U
319-85-7	beta-BHC	2.5	U
319-84-6	alpha-BHC	0.30	JP
319-86-8	delta-BHC	1.5	JP
58-89-9	gamma-BHC (Lindane)	0.52	JP
72-54-8	4,4'-DDD	4.8	U
72-55-9	4,4'-DDE	4.8	U
50-29-3	4,4'-DDT	4.8	U
60-57-1	Dieldrin	4.8	U
959-98-8	Endosulfan I	2.5	U
33213-65-9	Endosulfan II	4.8	U
1031-07-8	Endosulfan sulfate	4.8	U
72-20-8	Endrin	4.8	U
7421-93-4	Endrin Aldehyde	4.8	U
76-44-8	Heptachlor	2.5	U
1024-57-3	Heptachlor Epoxide	0.47	J
72-43-5	Methoxychlor	25	U
8001-35-2	Toxaphene	120	U
53494-70-5	Endrin Ketone	4.8	U
5103-74-2	gamma-Chlordane	2.5	U
5103-71-9	alpha-Chlordane	2.5	U

Data File: /chem/tracegc84.i/h100524e.b/069h1005130-08.d

Date : 26-MAY-2010 07:06

Client ID: SB47-14-15

Instrument: tracegc84.i

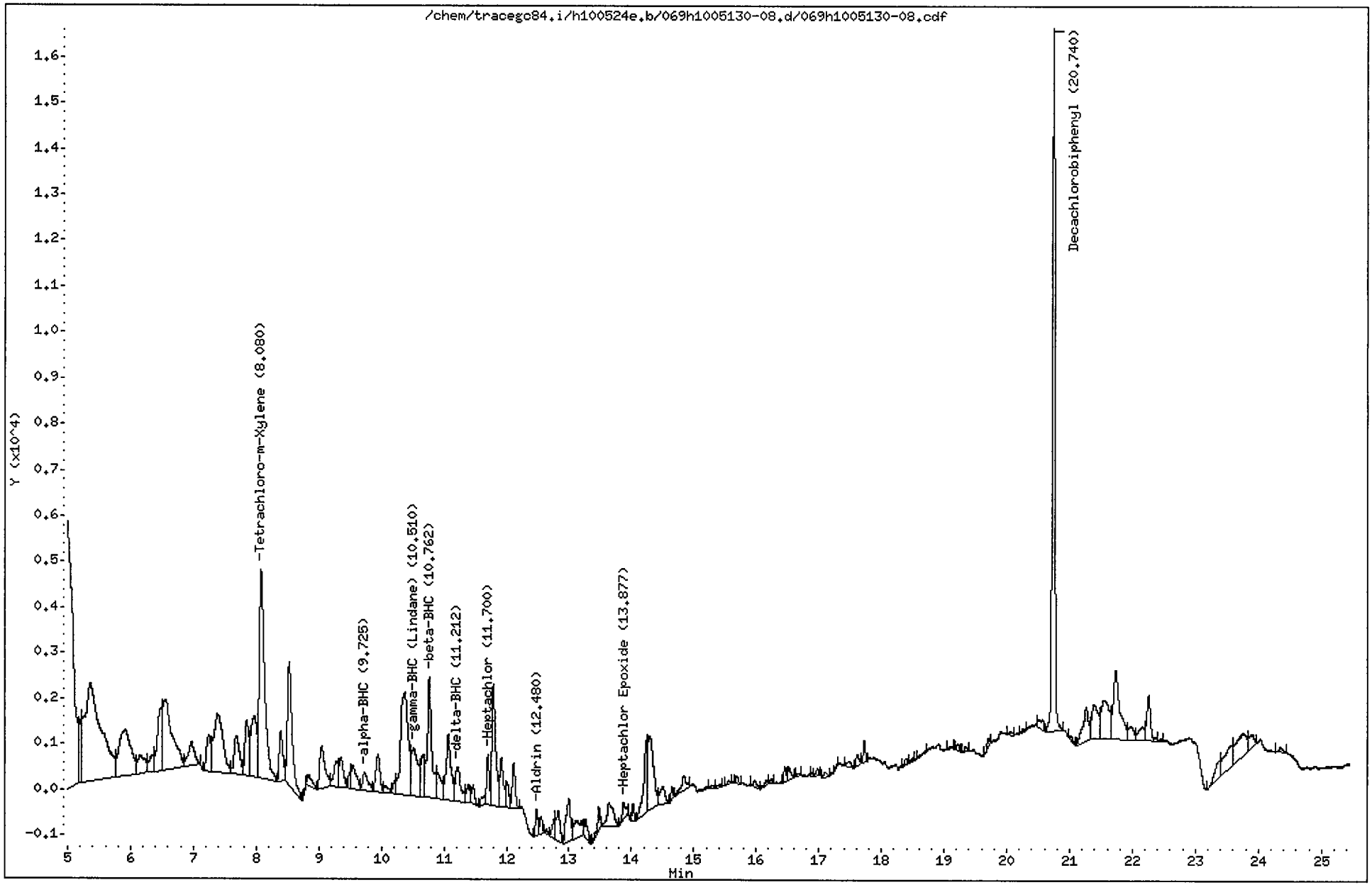
Sample Info: 1005130-08

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-08 Client Smp Id : SB47-14-15
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:06 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB47-14-15

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 31(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.05			178								
1.43			1337802								
1.48			14077424								
2.50			221459								
3.34			735455								
3.99			11048								
4.15			175107								
4.73			394079								
5.22			3273								
5.36			39302								
5.91			13554								
6.16			3127								
6.36			2059								
6.50			6900								
6.56			16504								
6.97			3683								
7.24			3563								
7.38			13342								
7.68			5250								
7.85			5284								
7.97			8295								
8.08	8.08	8.22	27921	539702	Tetrachloro-m-Xylene	0.051734	12.49615		86.2	70 - 125	
8.39			4608								
8.53			14018								
8.79			179								
8.85			1225								
9.04			5529								
9.29			2854								
9.35			2885								
9.49			785								
9.54			3079								
9.72	9.61	9.75	2314	802020	alpha-BHC	0.002884	0.696611	2.463768			J
9.94			3701								
10.06			751								
10.21			852								
10.37			18908								
10.51	10.43	10.57	7794	758655	gamma-BHC (Lindane)	0.010273	2.481508	2.463768			

6/4/10

CompuChem

Lab Smp Id : 1005130-08 Client Smp Id : SB47-14-15
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:06 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB47-14-15

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 31(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.65		3598								
10.76	10.67 10.81	12720	318610	beta-BHC	0.039920	9.642579	1.233333			
10.90		3163								
11.07		7889								
11.21	11.11 11.25	4420	704062	delta-BHC	0.006276	1.516046	2.463768			J
11.39		1606								
11.46		1453								
11.60		883								
11.70	11.63 11.77	3102	750482	Heptachlor	0.004133	0.998392	2.463768			J
11.78		11217								
11.91		4136								
12.01		1869								
12.11		3285								
12.48	12.35 12.49	1572	689285	Aldrin	0.002281	0.550875	2.463768			J
12.55		1075								
12.63		270								
12.77		1354								
12.83		2927								
12.99		4495								
13.11		3214								
13.26		1441								
13.48		1482								
13.64		3572								
13.88	13.77 13.91	1463	642292	Heptachlor Epoxide	0.002278	0.550188	2.463768			J
14.03		803								
14.24		5977								
14.29		10385								
14.50		2411								
14.65		681								
14.84		1691								
15.30		267								
15.43		204								
15.55		212								
15.68		490								
15.97		568								
16.16		444								
16.23		221								

CompuChem

Lab Smp Id : 1005130-08 Client Smp Id : SB47-14-15
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:06 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB47-14-15

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 31(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.45		813								
16.52		963								
16.66		129								
16.88		187								
16.97		377								
17.09		395								
17.28		164								
17.48		550								
17.61		745								
17.73		1019								
18.38		386								
18.49		166								
18.70		194								
19.09		174								
19.21		393								
19.34		228								
19.71		527								
20.04		292								
20.26		225								
20.50		1197								
20.74	20.72 20.86	42973	444411	Decachlorobiphenyl	0.096694	23.35609		80.6	55 - 130	
21.02		362								
21.26		4452								
21.38		5511								
21.55		8113								
21.73		11450								
21.97		1734								
22.15		1861								
22.25		4216								
22.44		151								
23.39		2516								
23.57		4333								
23.75		5916								
23.89		1725								
24.35		486								

Data File: /chem/tracegc84.i/h100524e_2C.b/069h1005130-08.d

Date : 26-MAY-2010 07:06

Client ID: SB47-14-15

Sample Info: 1005130-08

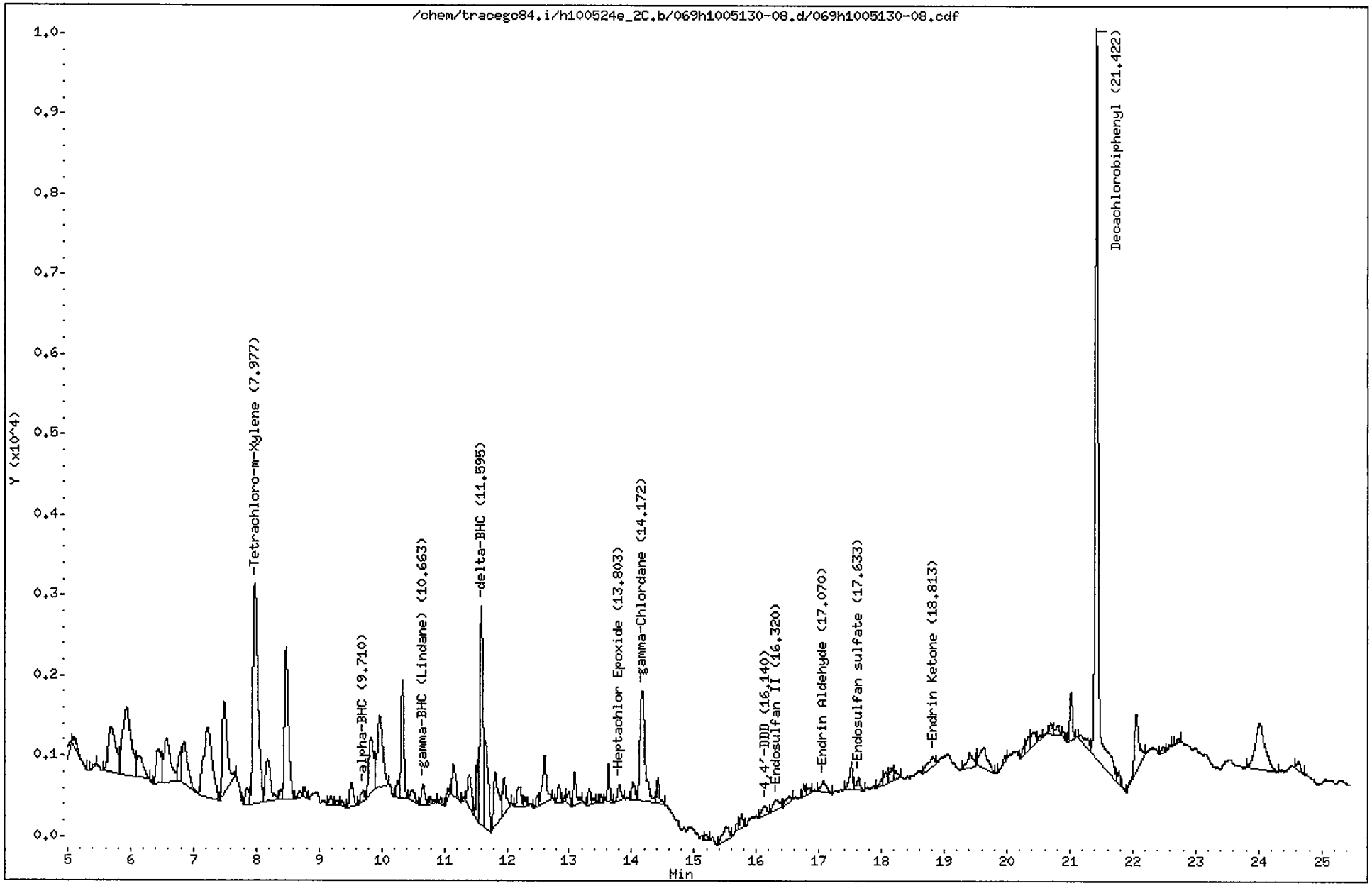
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-08 Client Smp Id : SB47-14-15
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:06 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB47-14-15

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 31(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48			9722321								
2.57			799								
2.80			35145								
3.11			26855								
3.78			4510								
4.04			108711								
4.30			70554								
5.05			293								
5.09			622								
5.44			132								
5.69			4722								
5.94			8326								
6.13			1750								
6.44			2579								
6.57			4141								
6.79			1219								
6.86			3255								
7.22			8393								
7.49			6159								
7.86			877								
7.98	7.97	8.11	15327	345165	Tetrachloro-m-Xylene	0.044405	10.72581		74.0	70 - 125	
8.18			3094								
8.39			372								
8.48			8046								
8.70			292								
8.78			381								
9.20			367								
9.29			160								
9.37			225								
9.52			1198								
9.71	9.64	9.78	579	473680	alpha-BHC	0.001222	0.295252	2.463768			J
9.83			3947								
9.96			5344								
10.26			655								
10.33			4469								
10.50			695								
10.66	10.55	10.69	972	450035	gamma-BHC (Lindane)	0.002158	0.521162	2.463768			J

6/4/10

CompuChem

Lab Smp Id : 1005130-08 Client Smp Id : SB47-14-15
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:06 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB47-14-15

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 31(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.79		298								
10.95		250								
11.06		378								
11.15		1495								
11.31		94								
11.40		1943								
11.53		1812								
11.60	11.49 11.63	9483	416372	delta-BHC	0.022775	5.501275	2.463768			M Z
11.66		4621								
11.82		3455								
11.96		1777								
12.21		1149								
12.30		292								
12.49		333								
12.61		2540								
12.84		595								
12.93		183								
13.00		497								
13.09		1374								
13.32		492								
13.39		154								
13.50		241								
13.63		1170								
13.80	13.70 13.84	781	397168	Heptachlor Epoxide	0.001966	0.474982	2.463768			J
14.02		797								
14.17	14.13 14.27	7854	394802	gamma-Chlordane	0.019891	4.804579	2.463768			
14.42		984								
15.19		196								
15.52		1208								
15.69		269								
15.76		629								
16.14	16.09 16.23	630	248368	4,4'-DDD	0.002537	0.612697	4.782609			J
16.32	16.29 16.43	939	304391	Endosulfan II	0.003082	0.744338	4.782609			J
16.53		455								
16.76		349								
16.85		254								
17.07	17.02 17.16	880	239136	Endrin Aldehyde	0.003676	0.887857	4.782609			J

KEH 6/4/10

CompuChem

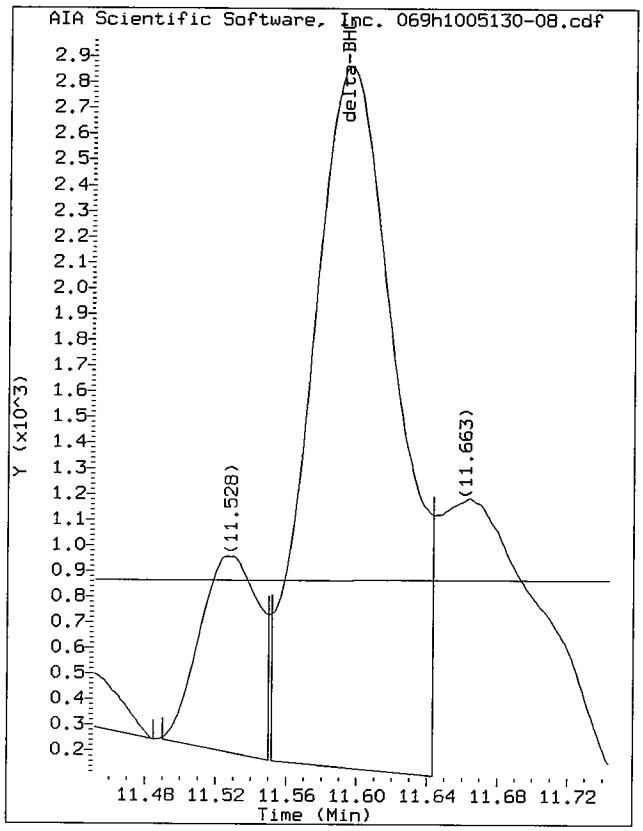
Lab Smp Id : 1005130-08 Client Smp Id : SB47-14-15
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:06 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB47-14-15

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 31(%)

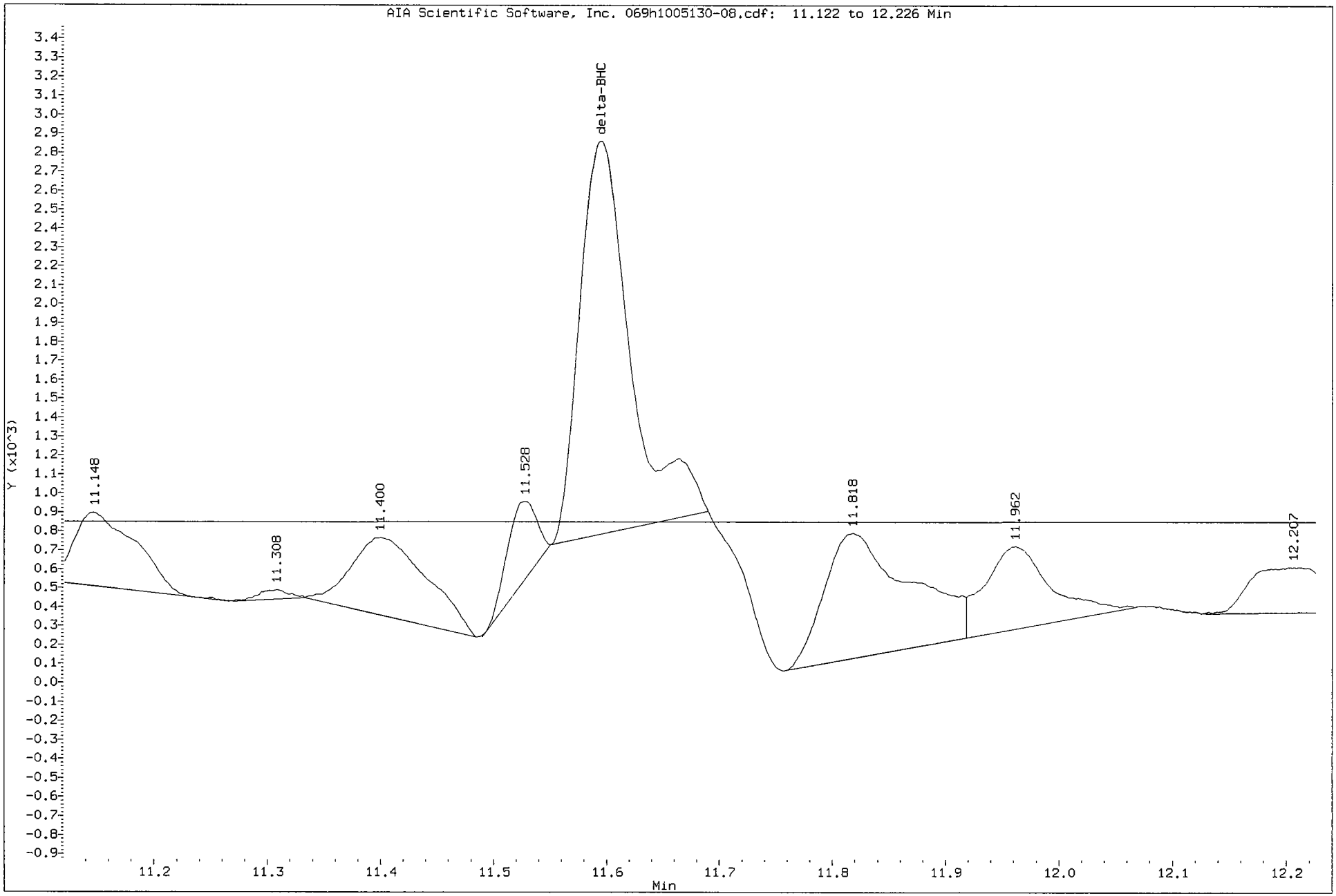
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.52		1301								
17.63	17.61 17.75	597	267371	Endosulfan sulfate	0.002233	0.539336	4.782609			J
18.00		229								
18.06		547								
18.16		743								
18.23		447								
18.81	18.75 18.89	953	304950	Endrin Ketone	0.003122	0.754064	4.782609			J
19.40		1086								
19.52		233								
19.63		2215								
19.97		245								
20.27		274								
20.34		771								
20.44		934								
20.52		204								
20.69		472								
20.80		504								
20.89		203								
21.01		1754								
21.18		794								
21.42	21.41 21.55	30953	301734	Decachlorobiphenyl	0.102584	24.77870		85.5	55 - 130	
21.78		416								
22.05		3653								
22.48		254								
22.59		98								
22.73		175								
24.03		6202								
24.62		388								

Manually Integrated Peaks



Start: 11.55 Stop: 11.64

Data File: /chem/tracegc84.i/h100524e_2C.b/069h1005130-08.d/069h1005130-08.cdf
Injection Date: 26-MAY-2010 07:06
Instrument: tracegc84.i
Client Sample ID: SB47-14-15



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB48-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

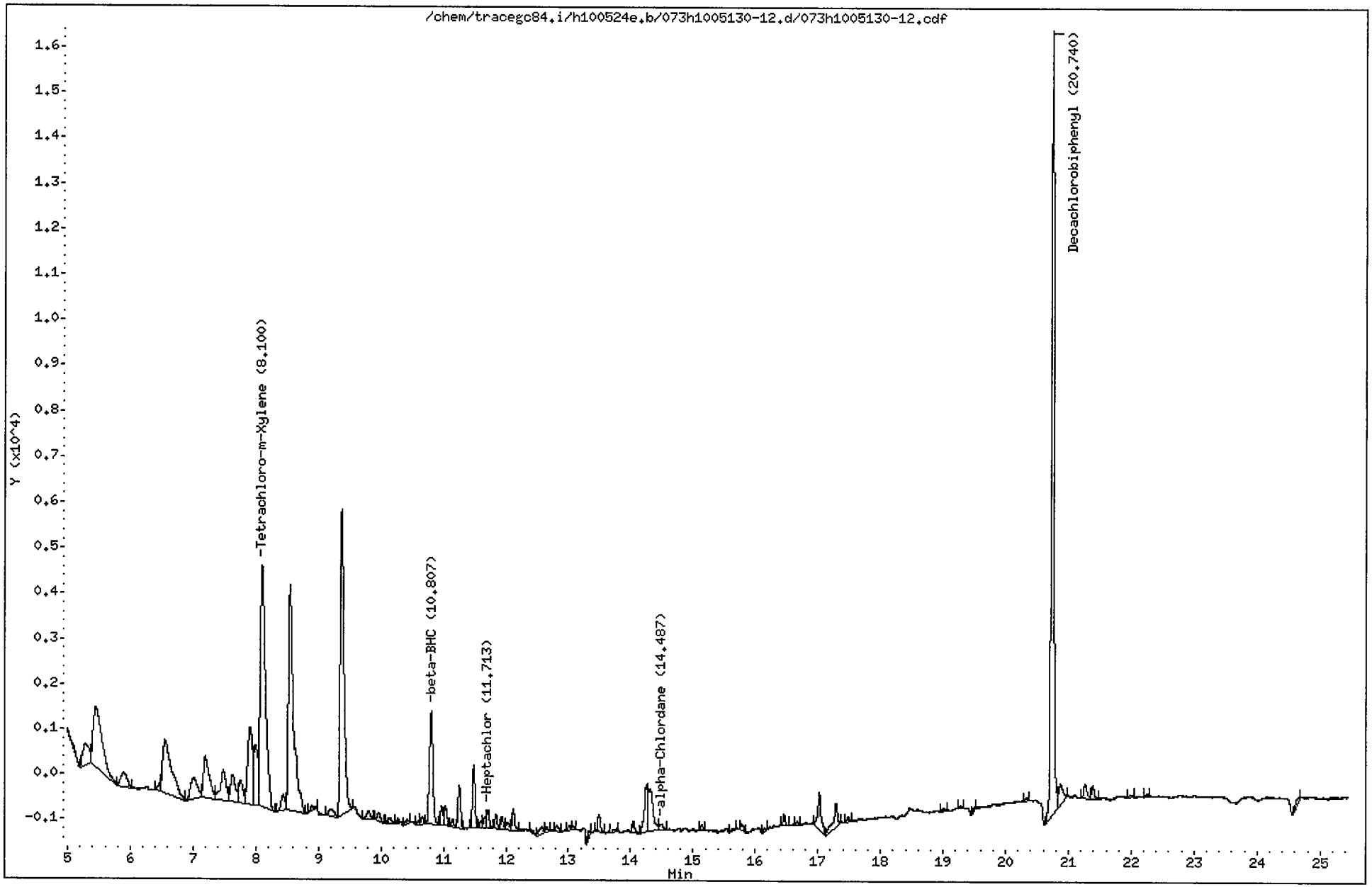
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	3.6	P
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.2	U
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	2.2	U
5103-71-9	alpha-Chlordane	2.2	U

Data File: /chem/tracegc84.i/h100524e.b/073h1005130-12.d
Date : 26-MAY-2010 09:02
Client ID: SB48-7-8
Sample Info: 1005130-12
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-12 Client Smp Id : SB48-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:02 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB48-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			9584								
1.63			333								
1.71			2419								
1.80			6000								
2.09			105346								
2.12			25552								
2.17			175321								
2.42			144731								
3.13			1530								
3.20			3342								
3.35			13620								
3.83			70300								
4.43			159								
4.79			38475								
5.29			3207								
5.45			13457								
5.88			2244								
6.47			464								
6.55			11685								
7.01			3643								
7.19			6017								
7.48			4300								
7.63			3198								
7.76			2336								
7.91			9091								
7.99			5703								
8.10	8.08	8.22	31725	539702	Tetrachloro-m-Xylene	0.058781	12.40096		98.0	70 - 125	
8.44			1535								
8.54			28000								
8.90			427								
9.20			983								
9.37			28895								
9.81			795								
9.96			680								
10.14			440								
10.42			377								
10.60			209								

6/4/10

CompuChem

Lab Smp Id : 1005130-12 Client Smp Id : SB48-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:02 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB48-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.66		470								
10.81	10.67 10.81	9888	318610	beta-BHC	0.031035	6.547428	1.077215			J
10.97		1141								
11.03		1278								
11.15		403								
11.25		2644								
11.48		3889								
11.60		405								
11.66		604								
11.71	11.63 11.77	1224	750482	Heptachlor	0.001630	0.343801	2.151899			J
11.84		873								
11.94		796								
12.02		586								
12.12		1392								
12.40		224								
12.57		726								
12.65		314								
12.82		380								
13.02		239								
13.08		162								
13.33		367								
13.49		1120								
13.72		278								
14.04		762								
14.25		3901								
14.31		5108								
14.49	14.35 14.49	593	564490	alpha-Chlordane	0.001051	0.221626	2.151899			J
15.14		307								
15.66		146								
15.79		513								
16.15		165								
16.46		585								
16.67		174								
17.02		2987								
17.29		2290								
17.48		220								
19.01		166								

CompuChem

Lab Smp Id : 1005130-12 Client Smp Id : SB48-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:02 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SB48-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.28		136								
19.50		250								
20.33		190								
20.74	20.72 20.86	49921	444411	Decachlorobiphenyl	0.112328	23.69797		93.6	55 - 130	
20.87		2239								
21.26		1103								
21.39		888								
21.99		183								
22.26		186								
24.67		635								

Data File: /chem/tracegc84.i/h100524e_2C.b/073h1005130-12.d

Date : 26-MAY-2010 09:02

Client ID: SB48-7-8

Sample Info: 1005130-12

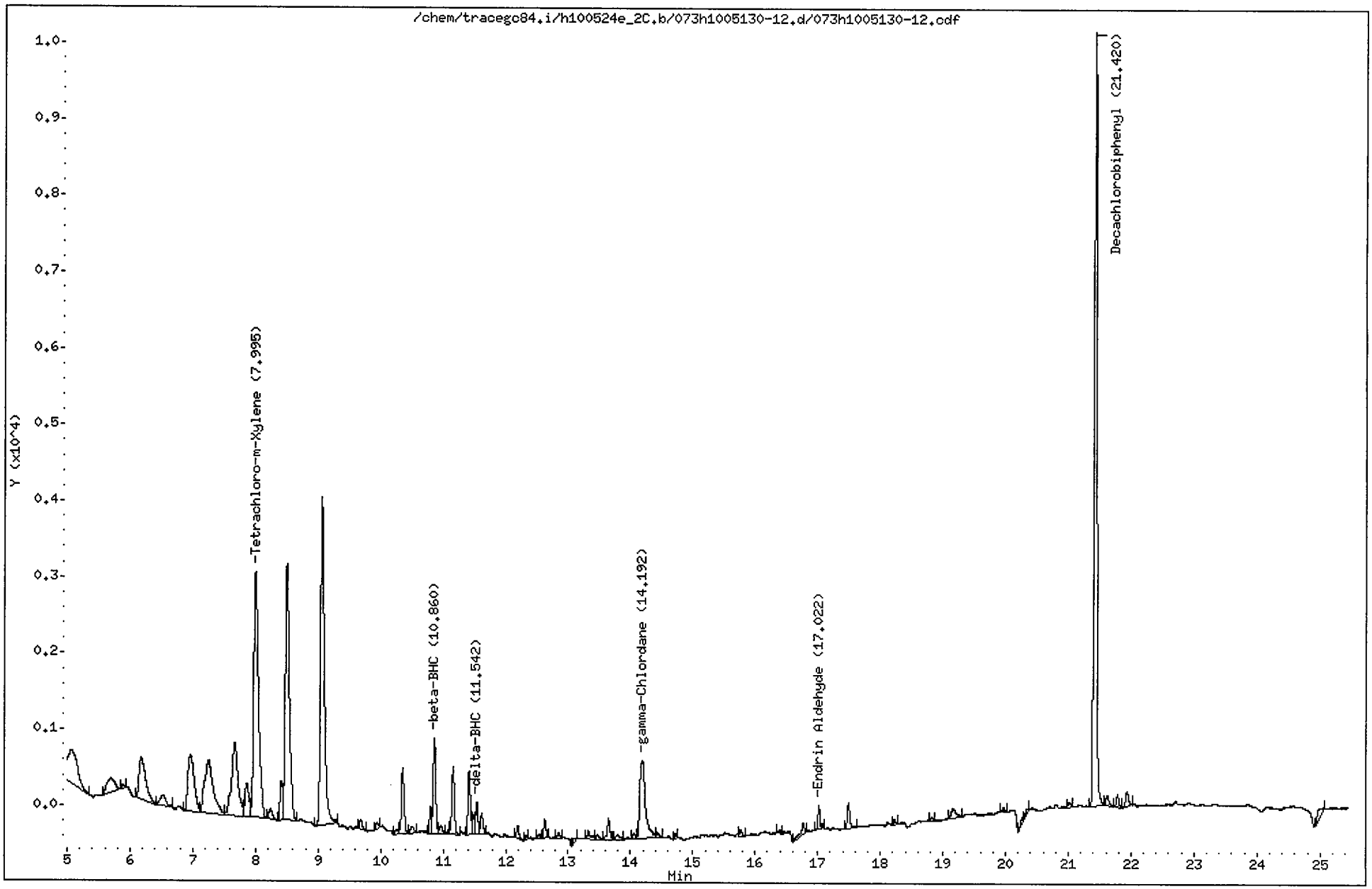
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-12 Client Smp Id : SB48-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:02 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB48-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.71		46201								
1.95		117518								
2.00		28575								
2.02		256801								
2.87		12743								
3.22		31412								
3.83		281								
3.91		141								
4.22		191								
4.38		15934								
4.83		6826								
5.06		4819								
5.70		1616								
5.89		130								
6.18		3987								
6.53		824								
6.96		5252								
7.25		6707								
7.67		6998								
7.86		1958								
8.00	7.97 8.11	17151	345165	Tetrachloro-m-Xylene	0.049689	10.48297		82.8	70 - 125	
8.24		583								
8.41		1574								
8.50		15069								
9.05		18436								
9.68		416								
9.94		221								
10.25		215								
10.35		2537								
10.50		280								
10.80		833								
10.86	10.79 10.93	3495	203322	beta-BHC	0.017185	3.625427	1.077215			
10.97		381								
11.09		143								
11.16		2628								
11.41		2258								
11.48		630								

6/4/10

CompuChem

Lab Smp Id : 1005130-12 Client Smp Id : SB48-7-8
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:02 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SB48-7-8

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.54	11.49 11.63	1159	416372	delta-BHC	0.002781	0.586743	2.151899			J
11.62		759								
12.19		469								
12.33		108								
12.54		156								
12.63		602								
12.85		189								
13.11		148								
13.33		383								
13.47		203								
13.65		928								
13.80		350								
14.05		181								
14.19	14.13 14.27	6390	394802	gamma-Chlordane	0.016185	3.414622	2.151899			
14.44		202								
14.72		146								
15.77		242								
16.39		118								
16.77		607								
17.02	17.02 17.16	735	239136	Endrin Aldehyde	0.003074	0.648431	4.177215			J
17.49		979								
18.23		130								
18.82		104								
19.16		652								
19.97		115								
20.27		211								
20.34		197								
21.01		147								
21.42	21.41 21.55	30449	301734	Decachlorobiphenyl	0.100913	21.28976		84.1	55 - 130	
21.61		509								
21.79		448								
21.94		619								
25.05		534								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB49-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 24 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	0.61	JP
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.3	U
72-55-9	4,4'-DDE	4.3	U
50-29-3	4,4'-DDT	0.72	J
60-57-1	Dieldrin	4.3	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
72-20-8	Endrin	4.3	U
7421-93-4	Endrin Aldehyde	4.3	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.3	U
5103-74-2	gamma-Chlordane	2.2	U
5103-71-9	alpha-Chlordane	2.2	U

Data File: /chem/tracegc84.i/h100524d.b/063h1005130-06.d

Date : 26-MAY-2010 04:12

Client ID: SB49-11-12

Instrument: tracegc84.i

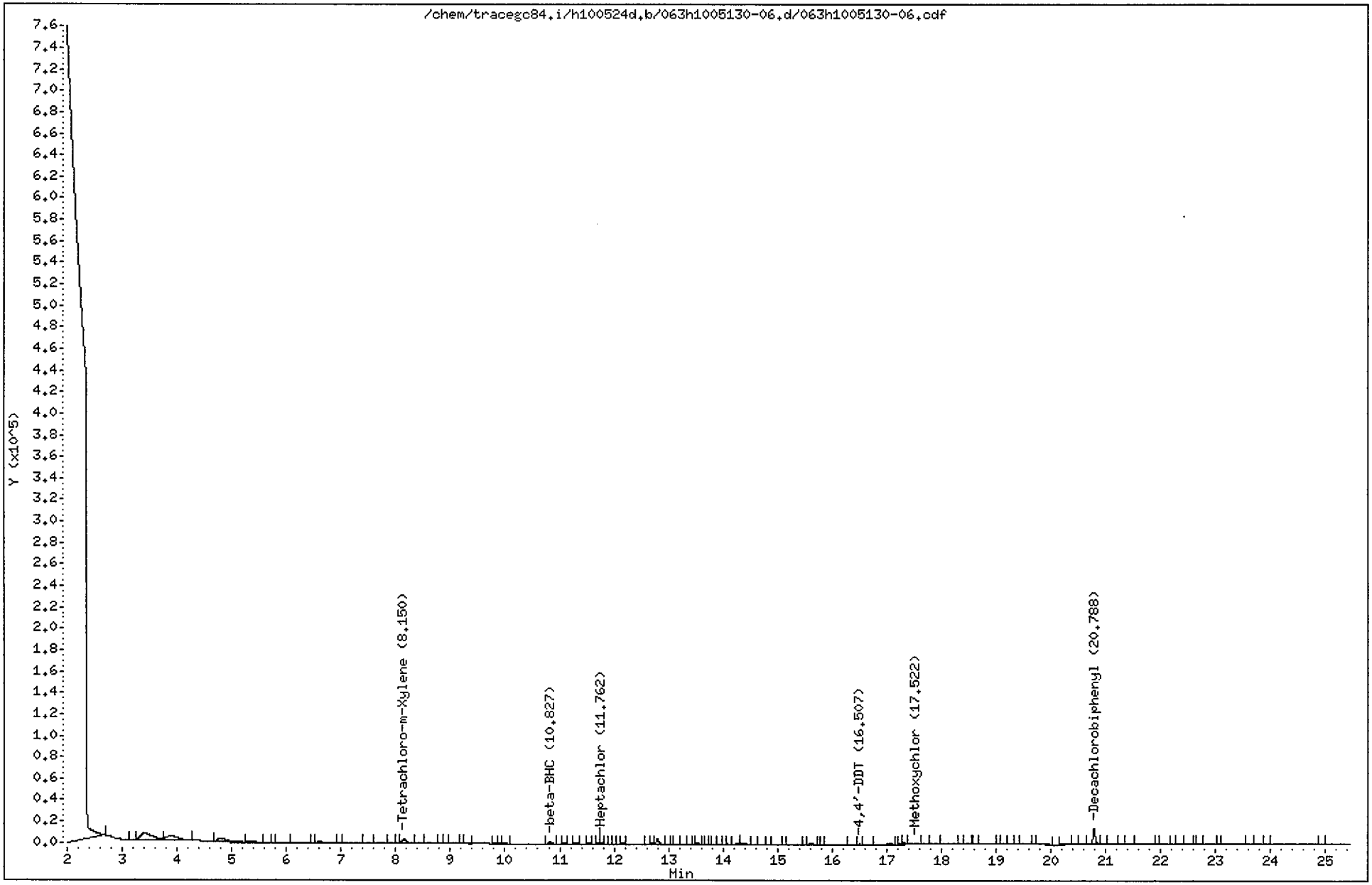
Sample Info: 1005130-06

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-06 Client Smp Id : SB49-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 04:12 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SB49-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 24(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48		44620148								
3.25		3386								
3.40		100698								
3.86		53654								
4.79		37873								
5.32		6013								
5.80		313								
5.92		2883								
6.52		1672								
6.59		8588								
7.03		659								
7.44		2277								
7.92		4813								
8.05		2162								
8.15	8.11 8.25	24200	539702	Tetrachloro-m-Xylene	0.044840	9.833228		74.7	70 - 125	
8.46		1411								
8.59		3659								
8.94		289								
9.01		1868								
9.22		487								
9.29		1112								
9.82		301								
10.01		768								
10.83	10.71 10.85	4719	318610	beta-BHC	0.014808	3.247384	1.119737			
11.08		760								
11.19		230								
11.30		1707								
11.53		2498								
11.65		350								
11.71		929								
11.76	11.67 11.81	1648	750482	Heptachlor	0.002196	0.481562	2.236842			J
11.91		123								
11.99		145								
12.07		343								
12.16		1207								
12.62		413								
12.70		629								

6/3/10

CompuChem

Lab Smp Id : 1005130-06 Client Smp Id : SB49-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 04:12 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SB49-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 24(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.80		12096								
13.07		179								
13.27		983								
13.38		742								
13.54		1345								
13.69		143								
13.77		289								
13.82		333								
14.02		240								
14.08		474								
14.29		4292								
14.35		5144								
14.53		366								
14.82		165								
15.12		132								
15.48		259								
15.61		1802								
15.81		253								
16.35		955								
16.51	16.48 16.62	1605	486148	4,4'-DDT	0.003301	0.724006	4.342105			J
17.07		6310								
17.20		307								
17.25		845								
17.32		4980								
17.52	17.50 17.64	9917	208219	Methoxychlor	0.047628	10.44467	22.36842			J
17.68		3949								
17.86		2900								
18.34		265								
18.49		1078								
18.63		203								
19.05		222								
19.31		278								
19.38		178								
19.71		287								
19.79		4130								
20.34		2858								
20.46		883								

CompuChem

Lab Smp Id : 1005130-06 Client Smp Id : SB49-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 04:12 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SB49-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 24(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.79	20.77 20.91	44016	444411	Decachlorobiphenyl	0.099041	21.71955		82.5	55 - 130	
20.94		903								
21.31		1130								
21.43		1341								
21.95		282								
22.20		205								
22.49		1700								
22.74		367								
23.05		164								
23.62		770								
23.94		686								
24.94		168								

Data File: /chem/tracegc84.i/h100524d_2C.b/063h1005130-06.d

Date : 26-MAY-2010 04:12

Client ID: SB49-11-12

Instrument: tracegc84.i

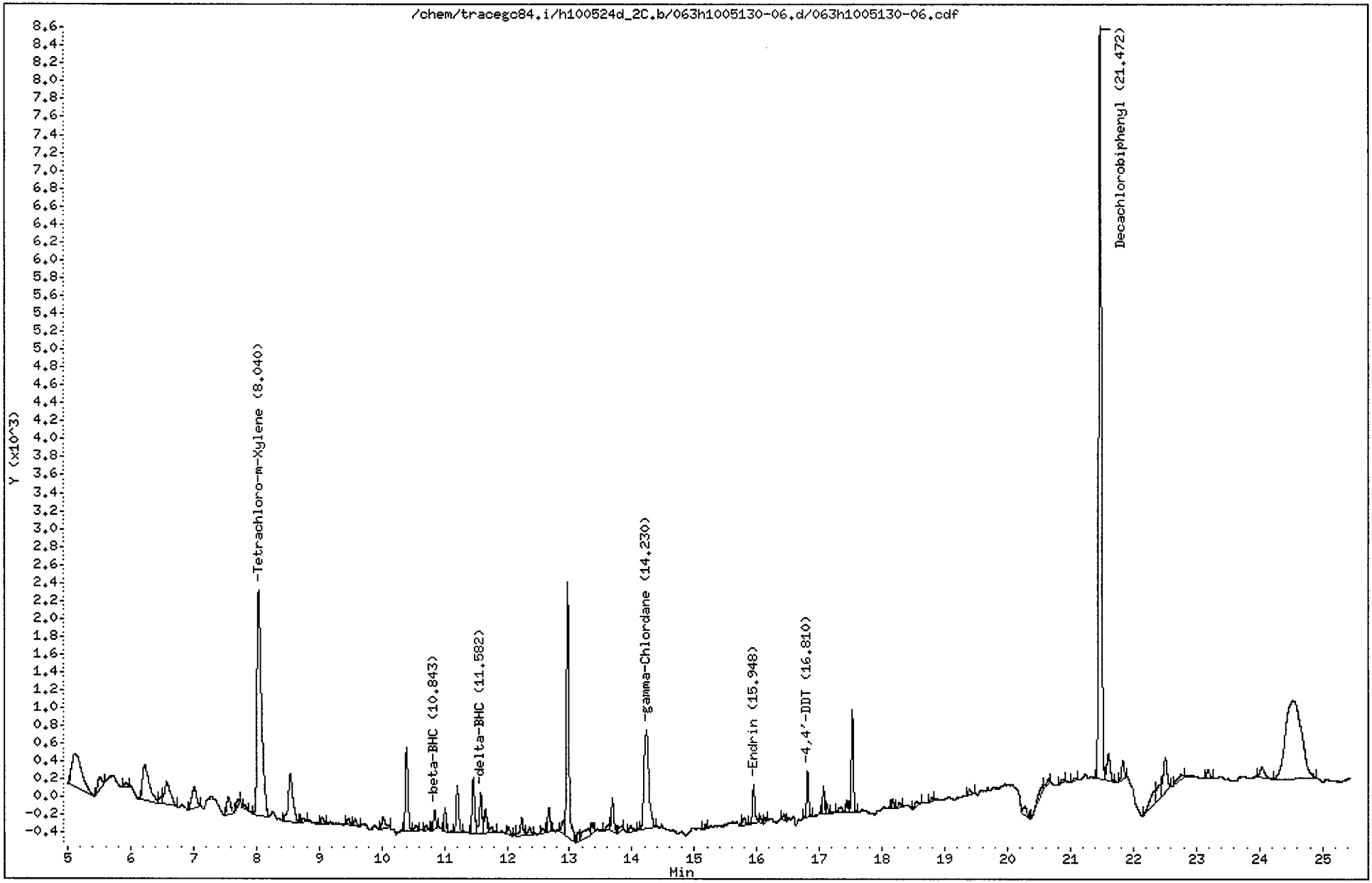
Sample Info: 1005130-06

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-06 Client Smp Id : SB49-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 04:12 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SB49-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 24(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.55			32375579								
2.87			20947								
2.92			21747								
3.20			32370								
3.24			74472								
3.89			8076								
4.39			1046								
5.12			4168								
5.51			615								
5.92			149								
6.22			2940								
6.51			280								
6.58			1672								
7.01			1194								
7.55			769								
7.71			172								
7.82			142								
8.04	8.01	8.15	12553	345165	Tetrachloro-m-Xylene	0.036365	7.974828		60.6*	70 - 125	R
8.54			2723								
8.76			140								
9.05			234								
9.47			252								
9.58			235								
10.02			509								
10.39			2615								
10.55			190								
10.71			137								
10.84	10.83	10.97	567	203322	beta-BHC	0.002789	0.611551	1.119737			J
11.01			607								
11.21			1412								
11.46			1783								
11.58	11.53	11.67	1323	416372	delta-BHC	0.003177	0.696808	2.236842			J
11.66			803								
11.75			238								
12.02			263								
12.23			682								
12.36			267								

6/3/10

CompuChem

Lab Smp Id : 1005130-06 Client Smp Id : SB49-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 04:12 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SB49-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 24(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.57		165								
12.67		725								
12.89		423								
12.97		7769								
13.14		280								
13.30		708								
13.37		312								
13.63		267								
13.69		958								
13.80		224								
13.98		274								
14.23	14.17 14.31	5903	394802	gamma-Chlordane	0.014952	3.278899	2.236842			
15.18		130								
15.80		248								
15.95	15.88 16.02	1135	319049	Endrin	0.003557	0.780143	4.342105			J
16.06		133								
16.14		102								
16.43		177								
16.81	16.79 16.93	1222	294834	4,4'-DDT	0.004141	0.908184	4.342105			J
17.06		664								
17.12		212								
17.34		246								
17.44		307								
17.52		2618								
18.16		221								
18.27		159								
18.55		244								
18.79		130								
19.40		182								
20.28		398								
20.55		612								
20.65		256								
20.87		116								
21.07		93								
21.47	21.45 21.59	24687	301734	Decachlorobiphenyl	0.081817	17.94236		68.2	55 - 130	
21.60		1140								
21.84		553								

CompuChem

Lab Smp Id : 1005130-06 Client Smp Id : SB49-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 04:12 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SB49-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 24(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.33		865								
22.42		714								
22.50		1822								
22.77		316								
23.19		293								
24.04		611								
24.53		15333								

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

SS05-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 21 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	0.59	J
319-84-6	alpha-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.2	U
72-55-9	4,4'-DDE	4.2	U
50-29-3	4,4'-DDT	4.2	U
60-57-1	Dieldrin	4.2	U
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	0.81	J
1031-07-8	Endosulfan sulfate	4.2	U
72-20-8	Endrin	4.2	U
7421-93-4	Endrin Aldehyde	4.2	U
76-44-8	Heptachlor	0.35	J
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.2	U
5103-74-2	gamma-Chlordane	1.5	J
5103-71-9	alpha-Chlordane	2.2	U

Data File: /chem/tracegc84.i/j100528t.b/210j1005130-20.d

Date : 04-JUN-2010 21:11

Client ID: SS05-0-1

Instrument: tracegc84.i

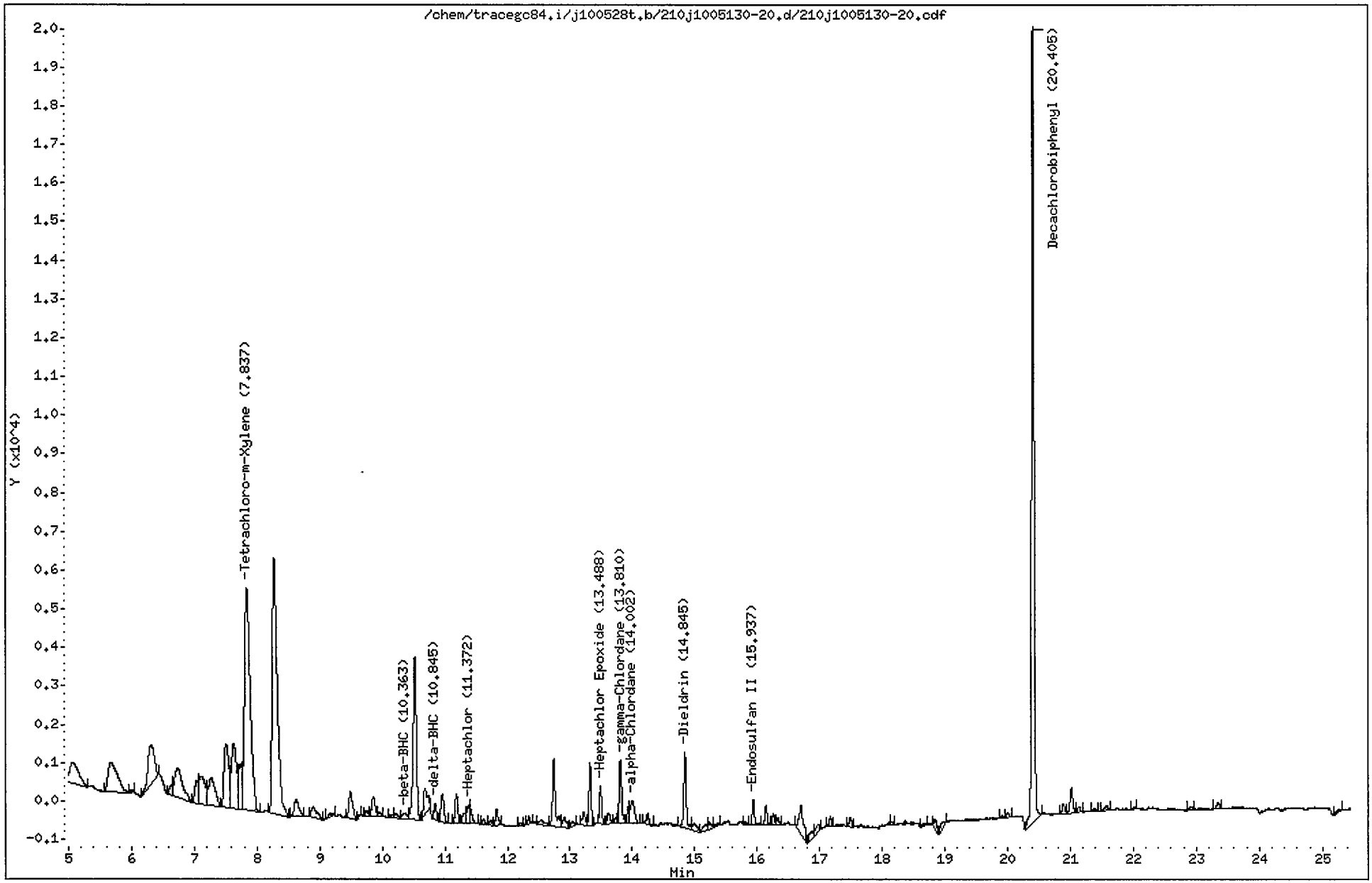
Sample Info: 1005130-20

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-20 Client Smp Id : SS05-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 21:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SS05-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48		25545								
2.08		583034								
3.04		280								
3.68		124701								
4.25		182								
4.52		253								
5.07		5539								
5.68		8070								
5.99		251								
6.32		7528								
6.64		891								
6.74		7149								
7.04		2135								
7.11		5329								
7.27		5292								
7.51		8990								
7.63		9542								
7.74		4958								
7.84	7.77 7.91	36881	522758	Tetrachloro-m-Xylene	0.070549	14.88375		117.6	70 - 125	
8.27		37209								
8.63		2293								
8.89		1756								
9.17		392								
9.49		2949								
9.64		210								
9.75		466								
9.85		1919								
9.95		346								
10.15		325								
10.22		478								
10.36	10.34 10.48	844	300532	beta-BHC	0.002808	0.592479	1.077215			J
10.52		15582								
10.68		2996								
10.84	10.77 10.91	1172	689518	delta-BHC	0.001698	0.358289	2.151899			J
10.96		2491								
11.18		2320								
11.31		894								

6/7/10

CompuChem

Lab Smp Id : 1005130-20 Client Smp Id : SS05-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 21:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SS05-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.37	11.29 11.43	1466	695465	Heptachlor	0.002107	0.444410	2.151899			JM
11.40		1122								
11.62		389								
11.73		375								
11.83		1109								
12.21		197								
12.35		497								
12.53		612								
12.74		5567								
12.90		1079								
13.04		379								
13.22		1190								
13.32		3851								
13.49	13.42 13.56	2419	593700	Heptachlor Epoxide	0.004073	0.859233	2.151899			J
13.62		905								
13.72		339								
13.81	13.70 13.84	4405	594875	gamma-Chlordane	0.007403	1.561864	2.151899			J
13.94		1103								
14.00	14.00 14.14	2779	516712	alpha-Chlordane	0.005376	1.134240	2.151899			J
14.24		801								
14.84	14.82 14.96	5588	515556	Dieldrin	0.010839	2.286662	4.177215			J
15.00		1098								
15.17		678								
15.24		589								
15.36		300								
15.81		141								
15.94	15.81 15.95	1723	450326	Endosulfan II	0.003826	0.807197	4.177215			J
16.14		1252								
16.26		754								
16.33		555								
16.70		3645								
16.88		900								
16.98		923								
17.17		588								
17.49		578								
18.16		227								
18.66		241								

KEH 6/17/10

CompuChem

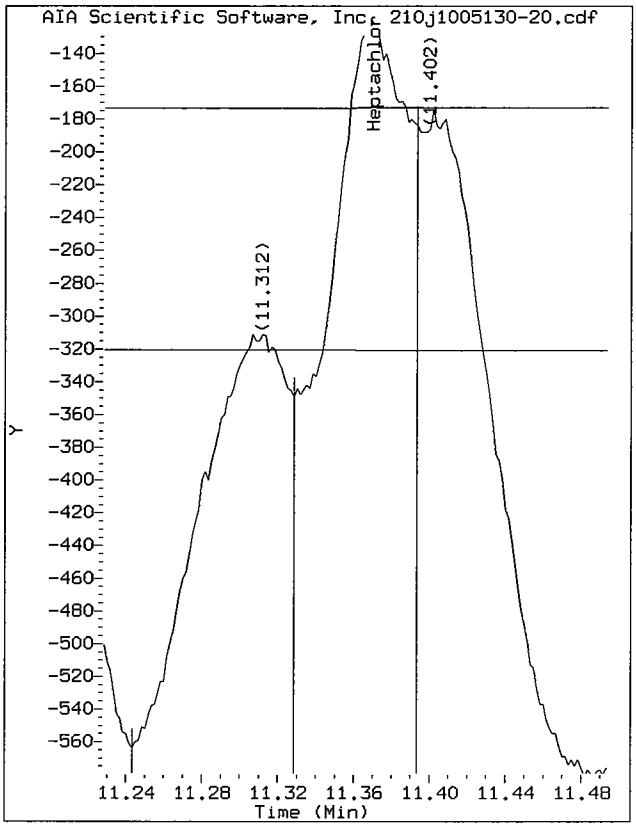
Lab Smp Id : 1005130-20 Client Smp Id : SS05-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 21:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SS05-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

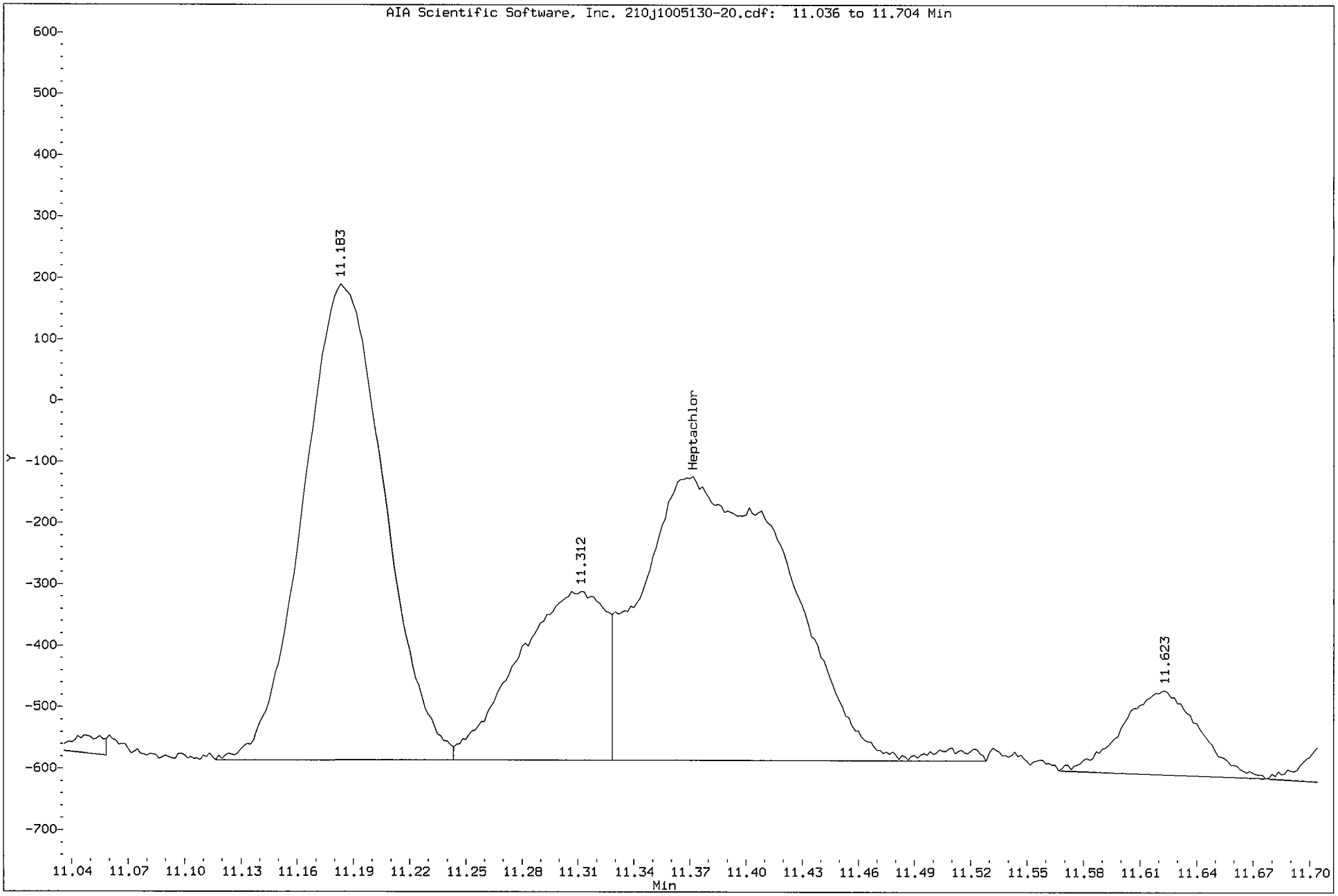
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.83		800								
19.02		746								
19.91		138								
20.00		326								
20.40	20.33 20.47	54630	408350	Decachlorobiphenyl	0.133780	28.22360		111.5	55 - 130	
20.89		718								
21.01		1983								
21.14		415								
21.37		154								
21.57		476								
22.01		140								
22.91		244								
23.34		461								
25.29		219								

Manually Integrated Peaks



Start: 11.33 Stop: 11.39

Data File: /chem/tracegc84.i/j100528t.b/210j1005130-20.d/210j1005130-20.cdf
Injection Date: 04-JUN-2010 21:11
Instrument: tracegc84.i
Client Sample ID: SS05-0-1



Data File: /chem/tracegc84.i/j100528t_2C.b/210j1005130-20.d

Date : 04-JUN-2010 21:11

Client ID: SS05-0-1

Instrument: tracegc84.i

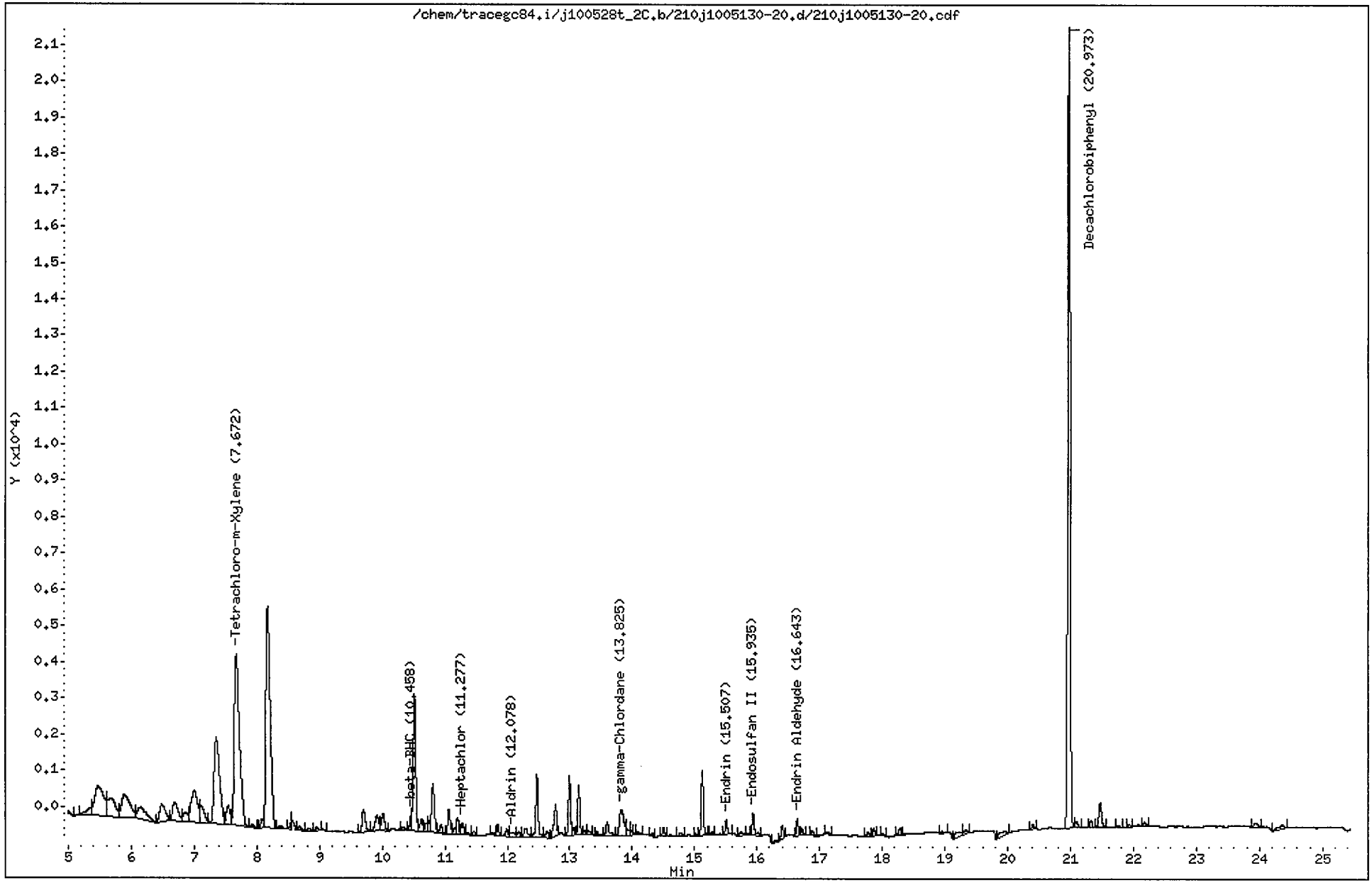
Sample Info: 1005130-20

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-20 Client Smp Id : SS05-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 21:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SS05-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.91		610154								
3.02		149380								
4.80		3818								
5.37		1167								
5.47		8541								
5.68		4324								
5.89		6192								
6.15		3331								
6.49		3136								
6.69		3159								
6.86		1290								
7.00		6133								
7.12		2443								
7.35		14693								
7.54		2267								
7.67	7.61 7.75	27507	416798	Tetrachloro-m-Xylene	0.065994	13.92272		110.0	70 - 125	
7.93		322								
8.09		623								
8.17		29490								
8.39		392								
8.56		425								
8.67		405								
8.84		191								
8.95		283								
9.06		110								
9.70		2347								
9.92		1913								
10.01		1583								
10.34		237								
10.46	10.41 10.55	769	248610	beta-BHC	0.003089	0.651725	1.077215			J
10.51		10995								
10.63		1039								
10.70		511								
10.74		693								
10.81		4439								
10.94		719								
11.06		1900								

6/7/10

CompuChem

Lab Smp Id : 1005130-20 Client Smp Id : SS05-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 21:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SS05-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.16		381								
11.21		1110								
11.28	11.22 11.36	963	579497	Heptachlor	0.001662	0.350588	2.151899			JM2
11.38		147								
11.47		289								
11.78		195								
11.85		678								
11.99		608								
12.08	11.97 12.11	574	542192	Aldrin	0.001059	0.223347	2.151899			J
12.18		466								
12.29		1018								
12.47		4542								
12.64		595								
12.77		2592								
12.99		3769								
13.06		498								
13.14		3047								
13.23		256								
13.29		316								
13.44		409								
13.60		1280								
13.82	13.71 13.85	3635	513150	gamma-Chlordane	0.007084	1.494451	2.151899			JM2
13.90		664								
13.98		296								
14.04		156								
14.09		283								
14.32		233								
14.41		110								
14.50		483								
14.78		256								
15.02		123								
15.12		4146								
15.29		219								
15.51	15.40 15.54	981	408649	Endrin	0.002398	0.505938	4.177215			J
15.74		349								
15.94	15.86 16.00	1657	404930	Endosulfan II	0.004092	0.863305	4.177215			J
16.30		161								

6/7/10

CompuChem

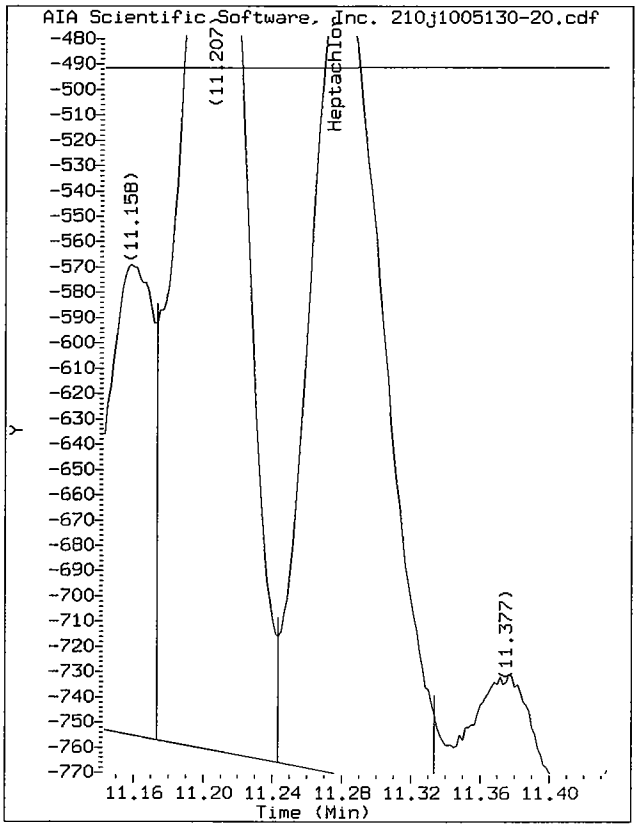
Lab Smp Id : 1005130-20 Client Smp Id : SS05-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 21:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SS05-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

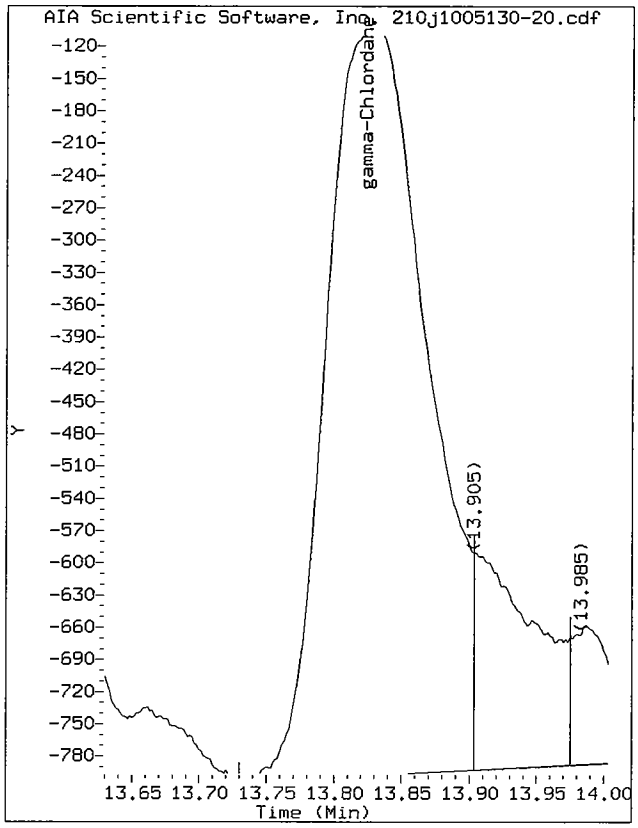
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 21(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.41		887								
16.64	16.59 16.73	974	316985	Endrin Aldehyde	0.003073	0.648249	4.177215			J
16.72		411								
16.88		331								
17.13		184								
17.78		234								
17.86		459								
18.02		131								
18.28		519								
18.95		151								
19.26		933								
19.34		360								
19.95		957								
20.41		312								
20.97	20.90 21.04	55034	406698	Decachlorobiphenyl	0.135317	28.54785		112.8	55 - 130	
21.10		482								
21.33		493								
21.47		1983								
21.76		137								
21.94		138								
22.18		314								
23.94		432								
24.37		768								

Manually Integrated Peaks

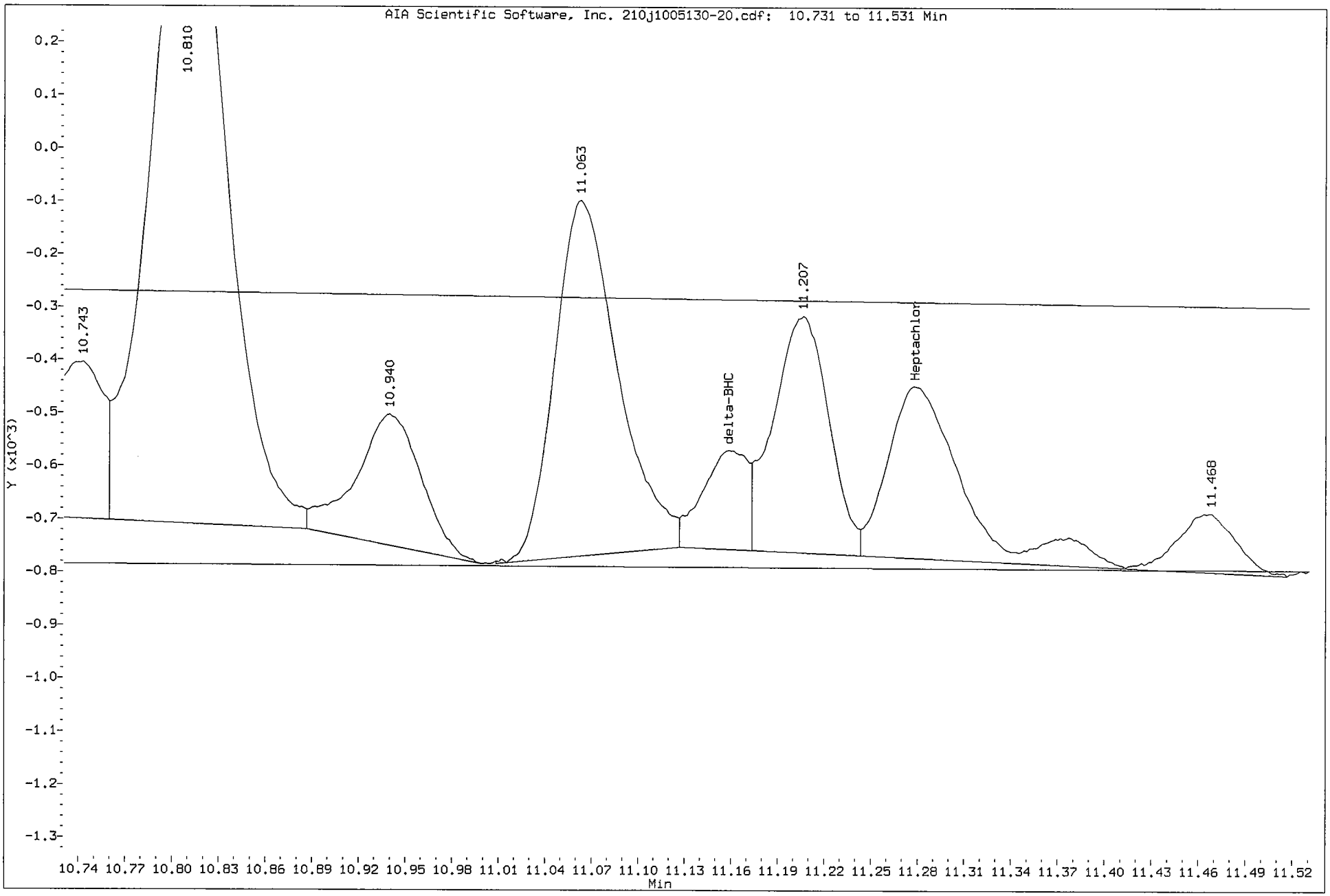


Start: 11.24 Stop: 11.33

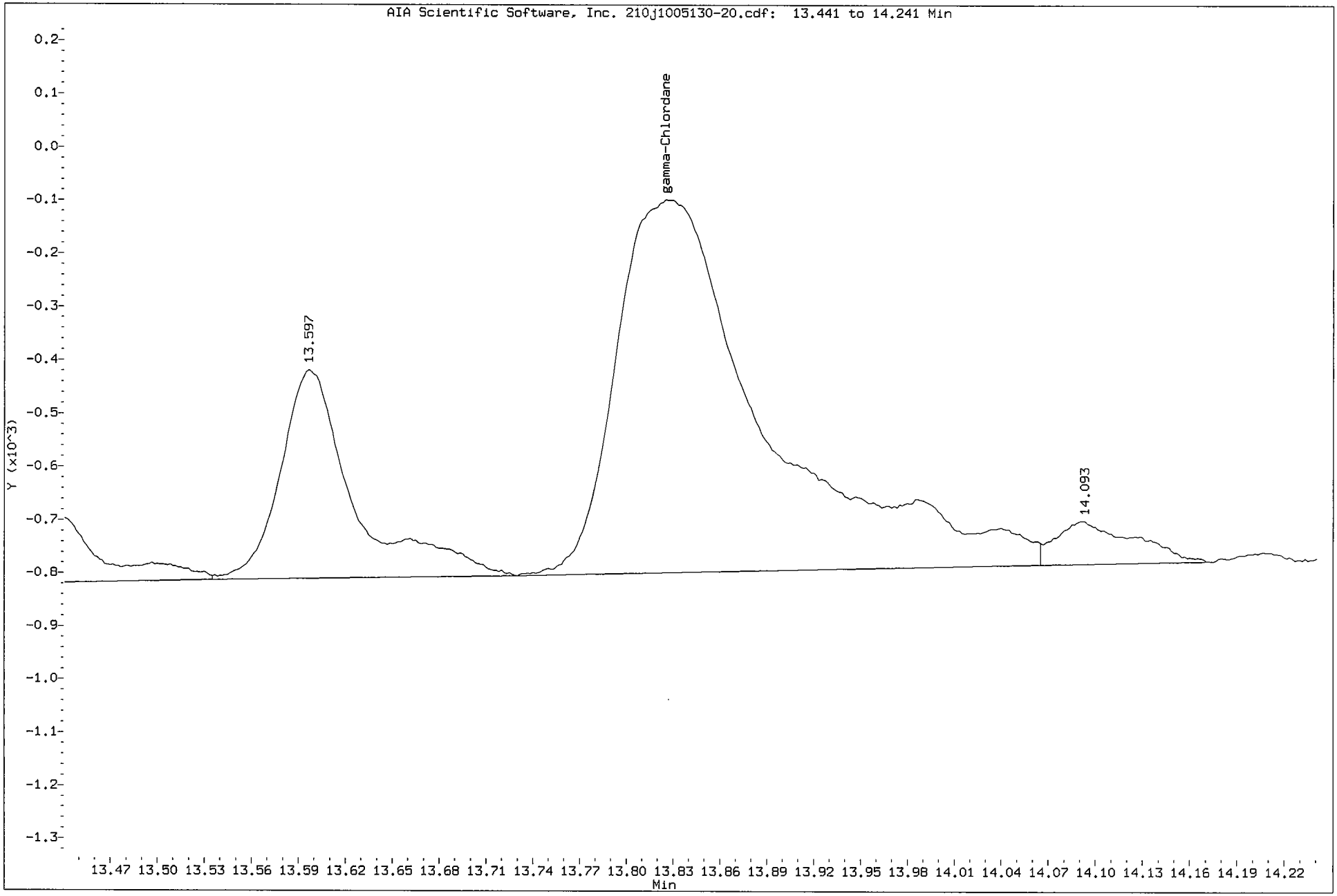


Start: 13.73 Stop: 13.90

Data File: /chem/tracegc84.i/j100528t_2C.b/210j1005130-20.d/210j1005130-20.cdf
Injection Date: 04-JUN-2010 21:11
Instrument: tracegc84.i
Client Sample ID: SS05-0-1



Data File: /chem/tracegc84.i/j100528t_2C.b/210j1005130-20.d/210j1005130-20.cdf
Injection Date: 04-JUN-2010 21:11
Instrument: tracegc84.i
Client Sample ID: SS05-0-1



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS08-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	20	
72-55-9	4,4'-DDE	20	
50-29-3	4,4'-DDT	3.7	
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	0.66	J
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	1.1	J
76-44-8	Heptachlor	0.44	JP
1024-57-3	Heptachlor Epoxide	0.28	JP
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	0.29	JP
5103-71-9	alpha-Chlordane	1.9	U

Data File: /chem/tracegc84.i/j100528t.b/208j1005130-18.d

Page 1

Date : 04-JUN-2010 20:13

Client ID: SS08-0-1

Instrument: tracegc84.i

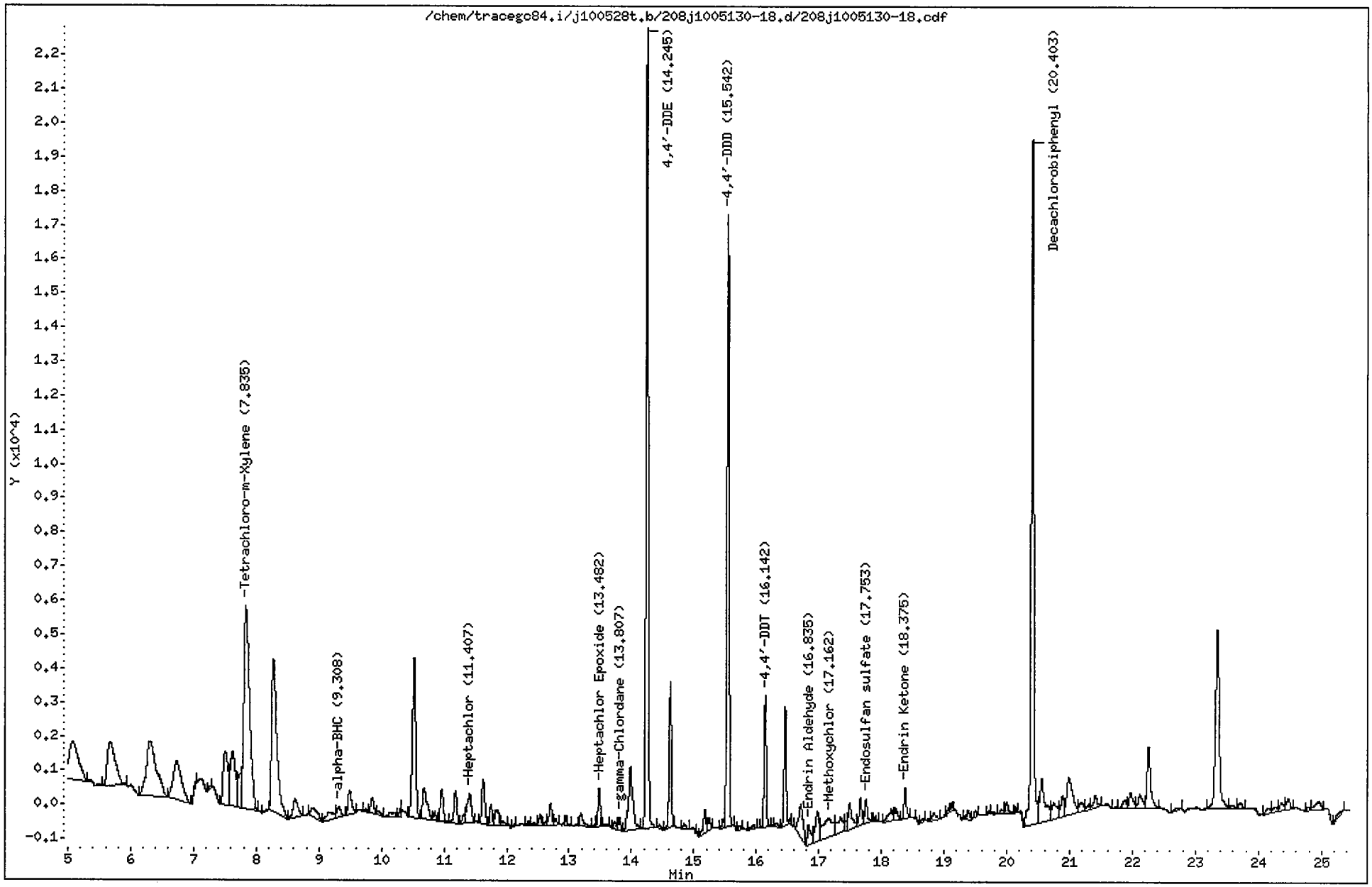
Sample Info: 1005130-18

Volume Injected (uL): 1.0

Operator: AHW

Column phase: olpest

Column diameter: 0.32



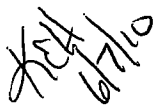
CompuChem

Lab Smp Id : 1005130-18 Client Smp Id : SS08-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:13 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SS08-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48			10748								
2.08			55196								
3.01			584								
3.66			114223								
4.25			7102								
4.55			25204								
5.08			11515								
5.68			11175								
6.32			17785								
6.73			10705								
7.04			638								
7.26			238								
7.50			8567								
7.62			9015								
7.75			3828								
7.84	7.77	7.91	37785	522758	Tetrachloro-m-Xylene	0.072280	13.38522		120.5	70 - 125	
8.18			151								
8.27			26326								
8.62			3025								
8.90			2009								
9.16			1608								
9.31	9.29	9.43	1332	775960	alpha-BHC	0.001715	0.317647	1.888889			J
9.49			2766								
9.75			255								
9.85			1549								
9.95			428								
10.15			903								
10.31			440								
10.52			17409								
10.68			4514								
10.85			682								
10.96			3061								
11.18			3144								
11.32			733								
11.41	11.29	11.43	3921	695465	Heptachlor	0.005637	1.043799	1.888889			J
11.62			4251								
11.75			1456								



CompuChem

Lab Smp Id : 1005130-18 Client Smp Id : SS08-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:13 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SS08-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.83		1887								
11.94		330								
12.12		155								
12.35		268								
12.43		320								
12.54		896								
12.62		247								
12.70		1961								
12.78		437								
12.95		684								
13.19		1495								
13.41		178								
13.48	13.42 13.56	2944	593700	Heptachlor Epoxide	0.004957	0.917972	1.888889			J
13.58		208								
13.72		639								
13.81	13.70 13.84	938	594875	gamma-Chlordane	0.001575	0.291689	1.888889			J
13.98		9072								
14.24	14.19 14.33	56564	523741	4,4'-DDE	0.108000	19.99998	3.666667			
14.45		319								
14.62		10408								
14.85		483								
15.05		144								
15.17		2072								
15.24		1015								
15.46		594								
15.54	15.48 15.62	42594	393458	4,4'-DDD	0.108256	20.04734	3.666667			
15.74		382								
15.96		446								
16.14	16.08 16.22	9166	454781	4,4'-DDT	0.020153	3.731953	3.666667			
16.33		321								
16.46		8706								
16.71		4759								
16.84	16.71 16.85	2113	348470	Endrin Aldehyde	0.006064	1.122898	3.666667			J
16.98		4092								
17.16	17.11 17.25	6122	194359	Methoxychlor	0.031493	5.832087	18.88889			J
17.35		2997								
17.44		665								

CompuChem

Lab Smp Id : 1005130-18 Client Smp Id : SS08-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:13 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SS08-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.49		3398								
17.66		2237								
17.75	17.65 17.79	2025	392055	Endosulfan sulfate	0.005163	0.956026	3.666667			J
17.90		251								
18.15		1529								
18.22		1179								
18.38	18.24 18.38	2448	457258	Endrin Ketone	0.005351	0.991013	3.666667			J
18.55		220								
18.64		334								
18.83		843								
19.05		286								
19.13		537								
19.38		850								
19.50		523								
19.73		120								
19.92		326								
20.00		995								
20.14		302								
20.40	20.33 20.47	56011	408350	Decachlorobiphenyl	0.137164	25.40078		114.3	55 - 130	
20.55		7706								
20.74		2984								
20.89		2217								
20.98		7204								
21.19		1218								
21.30		535								
21.41		1373								
21.73		121								
21.88		1019								
21.97		1888								
22.11		1818								
22.25		6862								
22.71		411								
23.34		22241								
23.58		433								
23.72		582								
24.16		812								
24.26		704								

CompuChem

Lab Smp Id : 1005130-18 Client Smp Id : SS08-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:13 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : SS08-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.37		1030								
24.47		1284								
24.80		342								
24.96		1615								
25.34		885								

Data File: /chem/tracegc84.i/j100528t_2C.b/208j1005130-18.d

Page 1

Date : 04-JUN-2010 20:13

Client ID: SS08-0-1

Instrument: tracegc84.i

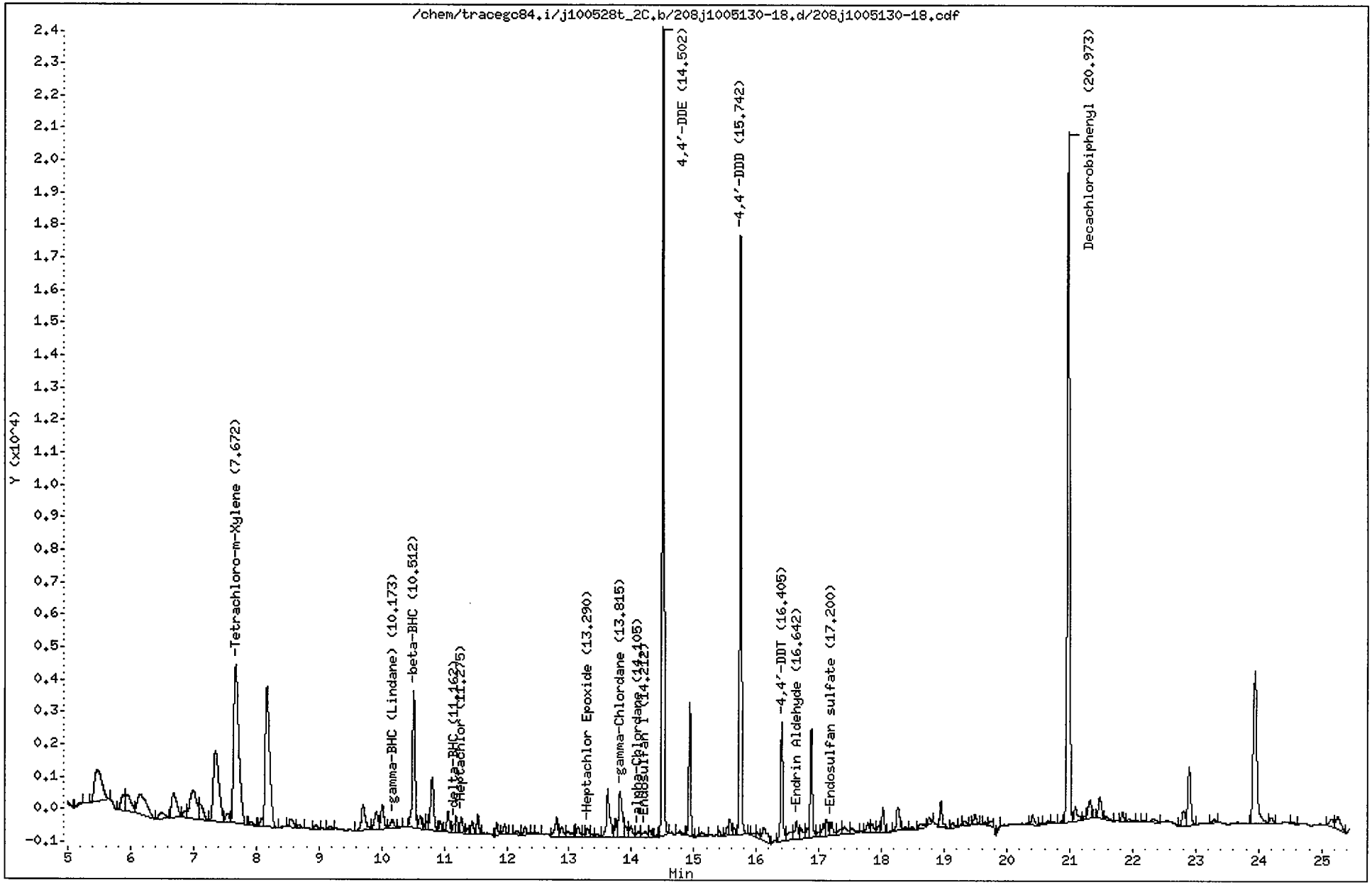
Sample Info: 1005130-18

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-18 Client Smp Id : SS08-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:13 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SS08-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.90			667146								
3.03			133519								
4.14			528								
4.81			9490								
5.21			208								
5.47			8286								
5.88			2266								
5.95			3024								
6.14			6226								
6.50			1263								
6.68			4551								
6.87			872								
7.00			6255								
7.11			2287								
7.36			13373								
7.54			1180								
7.67	7.61	7.75	28159	416798	Tetrachloro-m-Xylene	0.067558	12.51074		112.6	70 - 125	
7.92			579								
8.08			734								
8.17			20675								
8.55			961								
8.67			314								
8.83			138								
8.95			375								
9.18			286								
9.70			3523								
9.92			2212								
10.01			2465								
10.17	10.17	10.31	967	585542	gamma-BHC (Lindane)	0.001651	0.305826	1.888889			J
10.31			108								
10.51	10.41	10.55	12610	248610	beta-BHC	0.050718	9.392221	0.945556			
10.62			1198								
10.70			332								
10.74			619								
10.81			5567								
10.94			738								
11.06			1876								

KCH 6/7/10

CompuChem

Lab Smp Id : 1005130-18 Client Smp Id : SS08-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:13 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SS08-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.16	11.11 11.25	565	551235	delta-BHC	0.001025	0.189809	1.888889			J
11.20		1139								
11.28	11.22 11.36	1383	579497	Heptachlor	0.002387	0.441954	1.888889			J
11.37		424								
11.45		1047								
11.54		1373								
11.84		928								
11.96		848								
12.18		478								
12.29		858								
12.42		149								
12.49		171								
12.80		1893								
12.88		913								
12.97		847								
13.09		227								
13.14		903								
13.24		181								
13.29	13.29 13.43	776	511912	Heptachlor Epoxide	0.001516	0.280719	1.888889			JM
13.36		170								
13.44		260								
13.62		5180								
13.74		1291								
13.82	13.71 13.85	5773	513150	gamma-Chlordane	0.011248	2.082995	1.888889			M
13.89		1002								
13.99		1266								
14.10	14.04 14.18	671	446248	alpha-Chlordane	0.001504	0.278454	1.888889			J
14.21	14.15 14.29	910	477982	Endosulfan I	0.001904	0.352562	1.888889			J
14.30		683								
14.41		143								
14.50	14.43 14.57	53587	468602	4,4'-DDE	0.114355	21.17684	3.666667			
14.78		363								
14.93		8639								
15.12		364								
15.41		370								
15.54		564								
15.58		1158								

CompuChem

Lab Smp Id : 1005130-18 Client Smp Id : SS08-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:13 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SS08-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.64		555								
15.74	15.67 15.81	39471	340626	4,4'-DDD	0.115875	21.45830	3.666667			
15.95		381								
16.02		541								
16.12		2350								
16.40	16.33 16.47	8749	405929	4,4'-DDT	0.021553	3.991304	3.666667			
16.53		1359								
16.64	16.59 16.73	1987	316985	Endrin Aldehyde	0.006265	1.160237	3.666667			J
16.72		1252								
16.82		854								
16.88		7837								
16.99		525								
17.07		993								
17.12		1378								
17.20	17.17 17.31	1311	366674	Endosulfan sulfate	0.003575	0.662108	3.666667			J
17.34		528								
17.41		952								
17.54		617								
17.78		790								
17.85		991								
17.95		491								
18.02		1993								
18.26		2354								
18.39		163								
18.50		233								
18.63		724								
18.76		763								
18.95		2155								
19.13		501								
19.32		435								
19.49		809								
19.65		280								
19.73		693								
19.89		209								
20.41		1092								
20.54		149								
20.66		246								

CompuChem

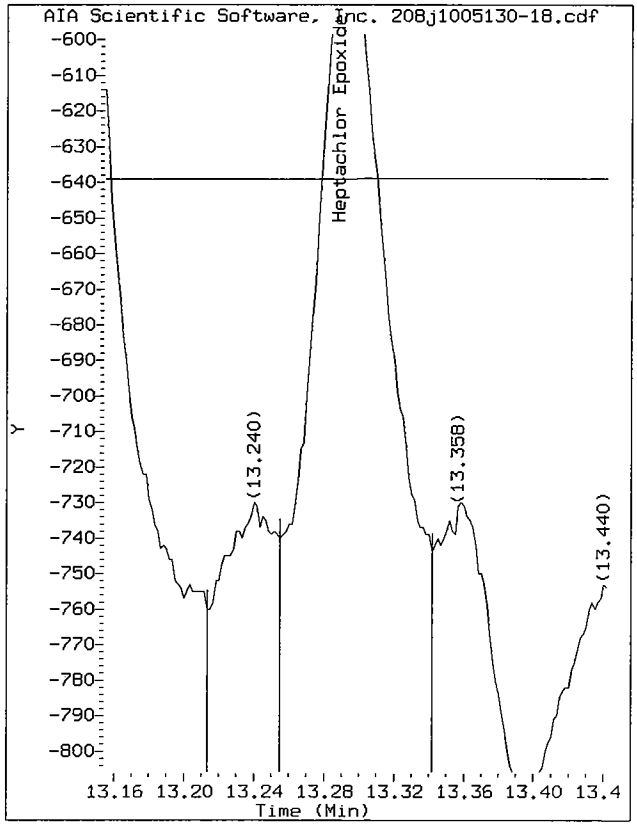
Lab Smp Id : 1005130-18 Client Smp Id : SS08-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 04-JUN-2010 20:13 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : SS08-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

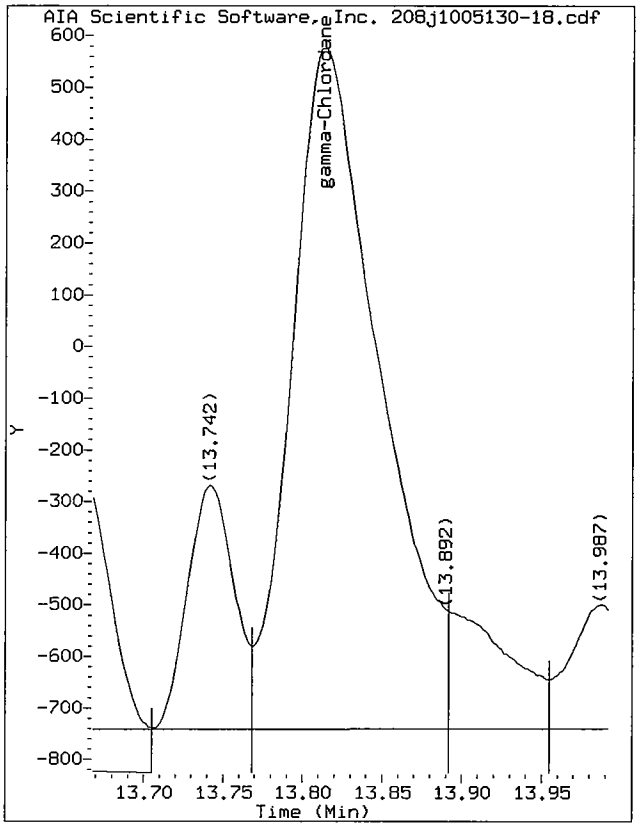
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.86		177								
20.97	20.90 21.04	54944	406698	Decachlorobiphenyl	0.135095	25.01768		112.6	55 - 130	
21.09		1681								
21.24		266								
21.32		2060								
21.48		2382								
21.59		446								
21.84		717								
21.95		288								
22.17		178								
22.32		533								
22.81		1688								
22.90		5971								
23.30		295								
23.94		18841								
24.20		614								
24.55		164								
25.16		1048								
25.26		2159								

Manually Integrated Peaks

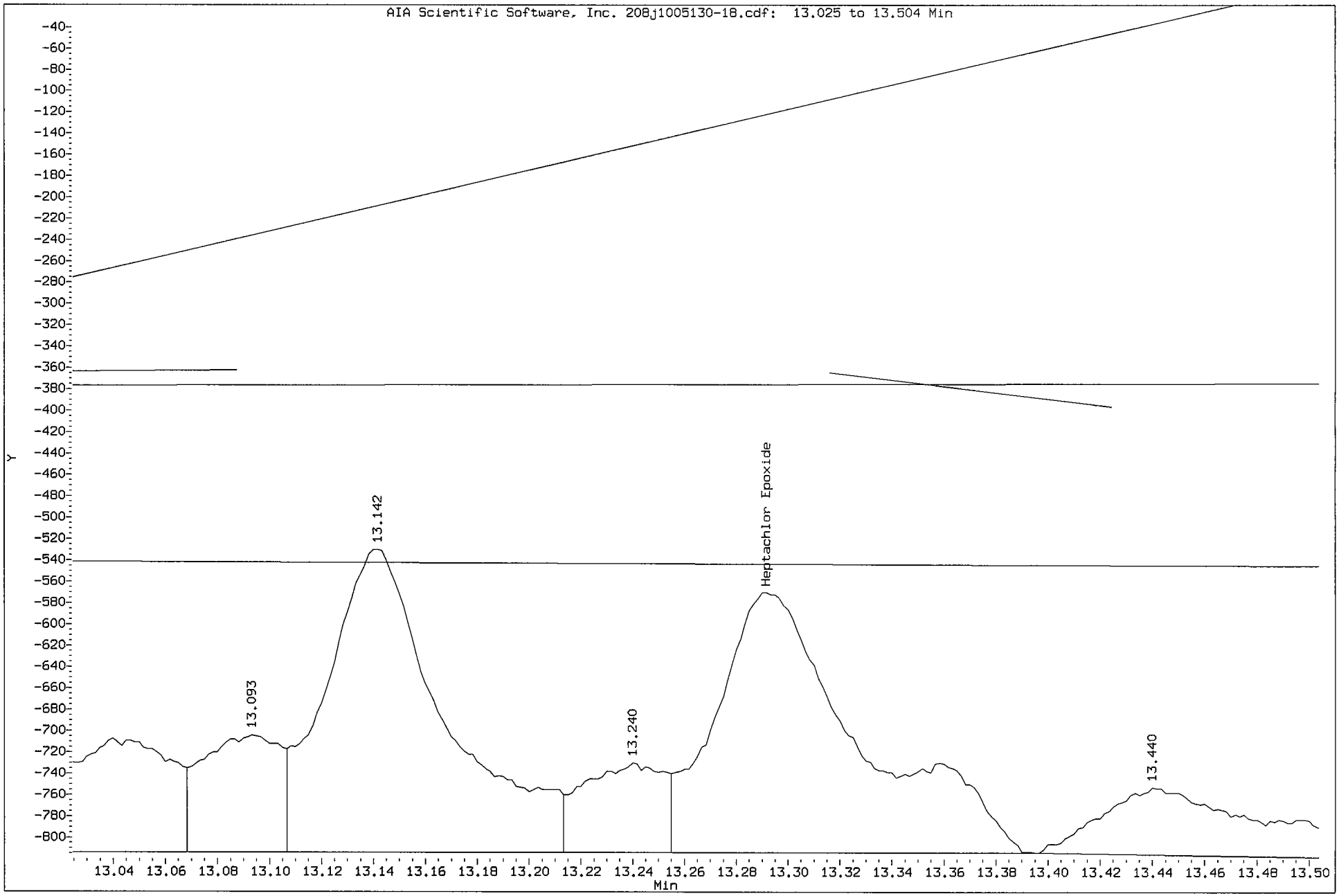


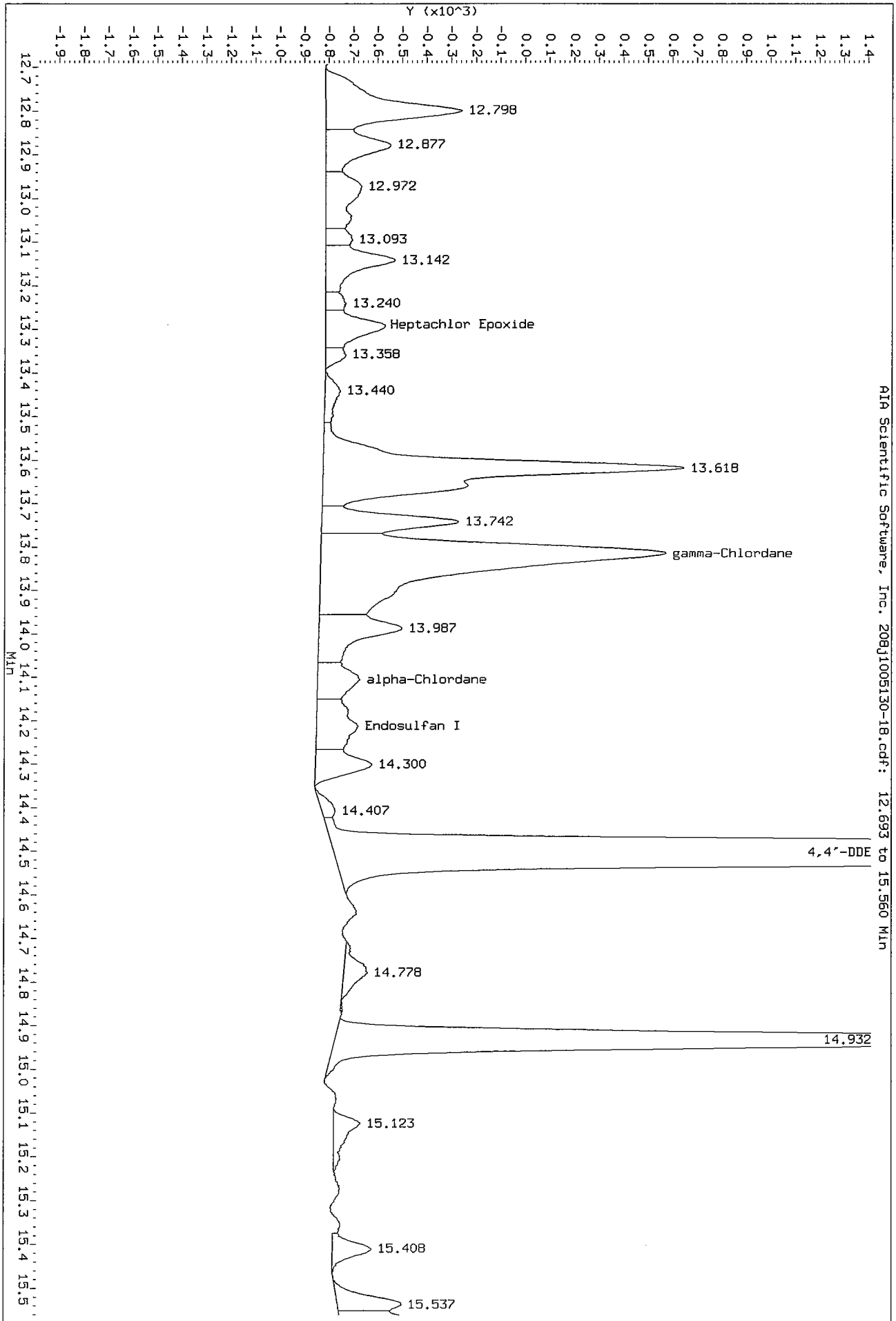
Start: 13.26 Stop: 13.34



Start: 13.77 Stop: 13.89

Data File: /chem/tracegc84.i/j100528t_2C.b/208j1005130-18.d/208j1005130-18.cdf
Injection Date: 04-JUN-2010 20:13
Instrument: tracegc84.i
Client Sample ID: SS08-0-1




Data File: /chem/tracegc84.i/j100528t_2C.b/208j1005130-18.d/208j1005130-18.cdf
Injection Date: 04-JUN-2010 20:13
Instrument: tracegc84.i
Client Sample ID: SS08-0-1
Y (x10^3)
12.798
12.877
12.972
13.093
13.142
13.240
Heptachlor Epoxide
13.358
13.440
13.618
13.742
gamma-Chlordane
13.987
alpha-Chlordane
Endosulfan I
14.300
14.407
4,4'-DDE
14.778
14.932
15.123
15.408
15.537
Min
AIA Scientific Software, Inc. 208j1005130-18.cdf: 12.693 to 15.560 Min

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS11-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.0	J
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

Data File: /chem/tracegc84.i/h100524e.b/071h1005130-10.d

Page 1

Date : 26-MAY-2010 08:04

Client ID: SS11-0-1

Instrument: tracegc84.i

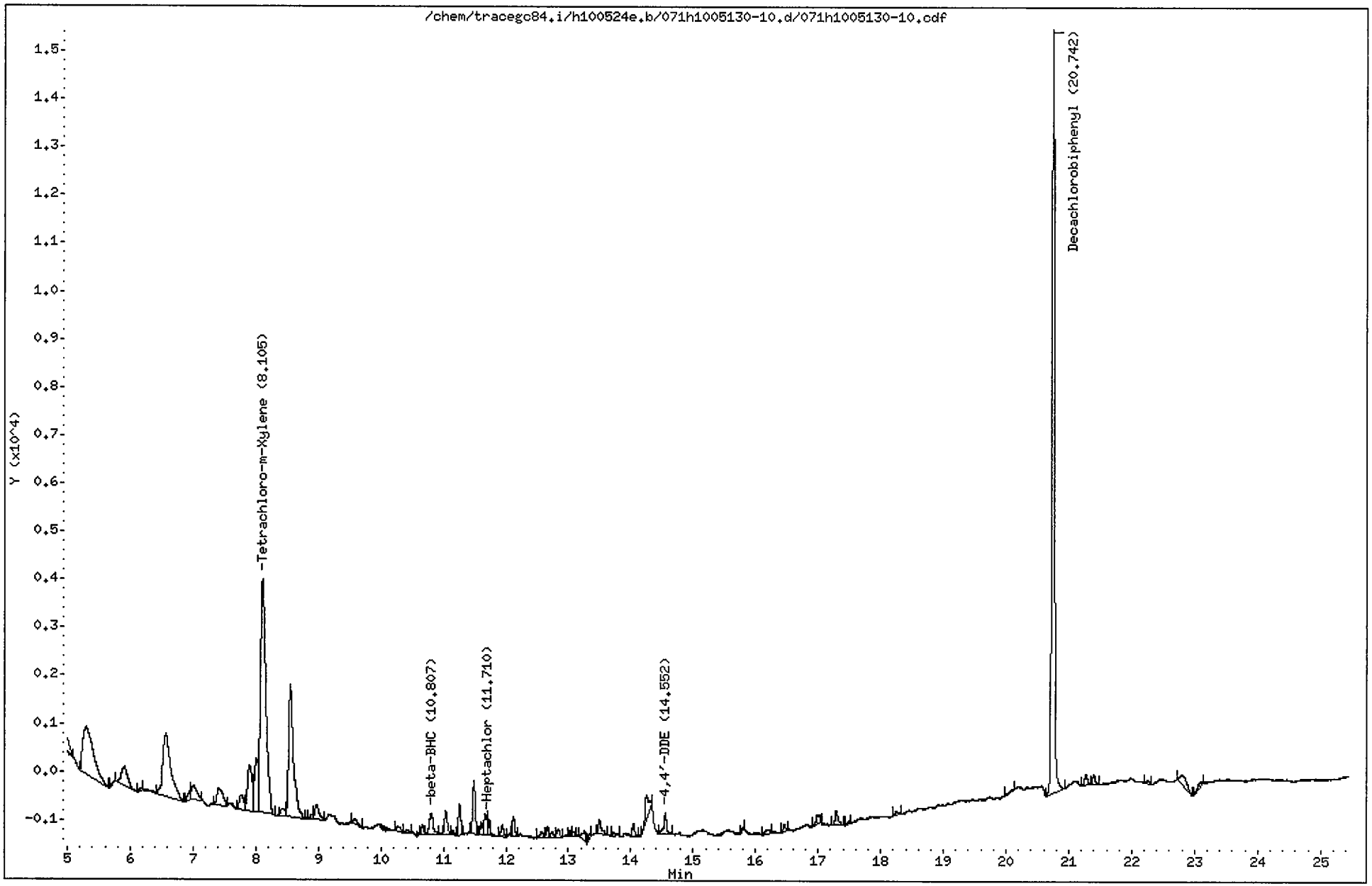
Sample Info: 1005130-10

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



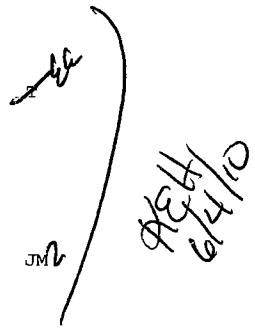
CompuChem

Lab Smp Id : 1005130-10
Client Smp Id : SS11-0-1
Sample Type : SAMPLE
Sublist : DODPEST
Inj Date : 26-MAY-2010 08:04
Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS11-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0
Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul)
Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g)
M Moisture: 4(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.46			49697145								
3.15			13879								
3.37			31339								
3.84			87858								
4.45			229								
4.79			10095								
5.30			11574								
5.76			124								
5.91			2877								
6.17			170								
6.57			11787								
6.96			591								
7.01			1629								
7.42			2220								
7.77			1417								
7.90			4785								
8.01			4462								
8.10	8.08	8.22	29223	539702	Tetrachloro-m-Xylene	0.054146	9.400434		90.2	70 - 125	
8.44			789								
8.55			14908								
8.90			250								
8.97			1493								
9.58			510								
10.27			519								
10.42			258								
10.66			501								
10.81	10.67	10.81	1910	318610	beta-BHC	0.005992	1.040217	0.886458			
11.04			1456								
11.15			218								
11.26			1784								
11.48			3107								
11.60			591								
11.67			1224								
11.71	11.63	11.77	793	750482	Heptachlor	0.001057	0.183447	1.770833			
11.94			661								
12.12			1031								
12.57			456								



CompuChem

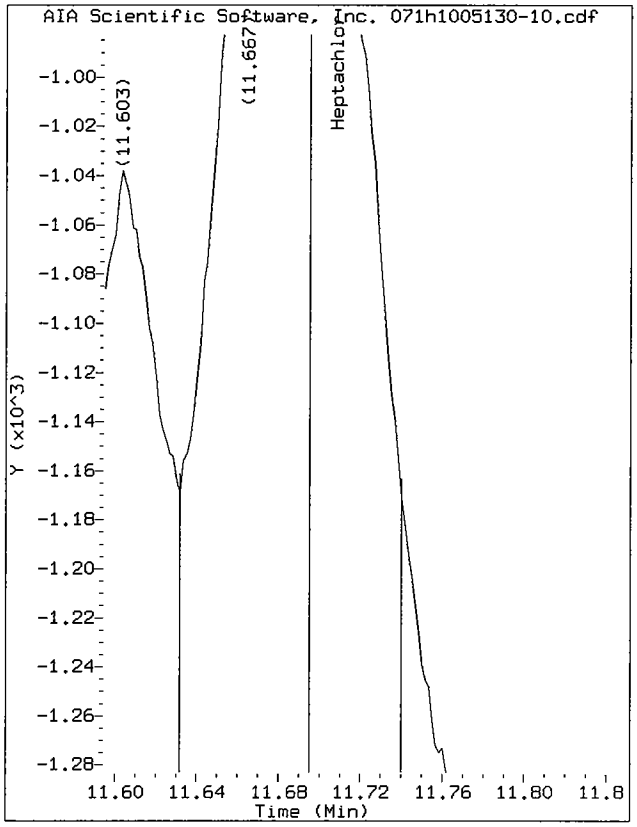
Lab Smp Id : 1005130-10 Client Smp Id : SS11-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 08:04 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS11-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

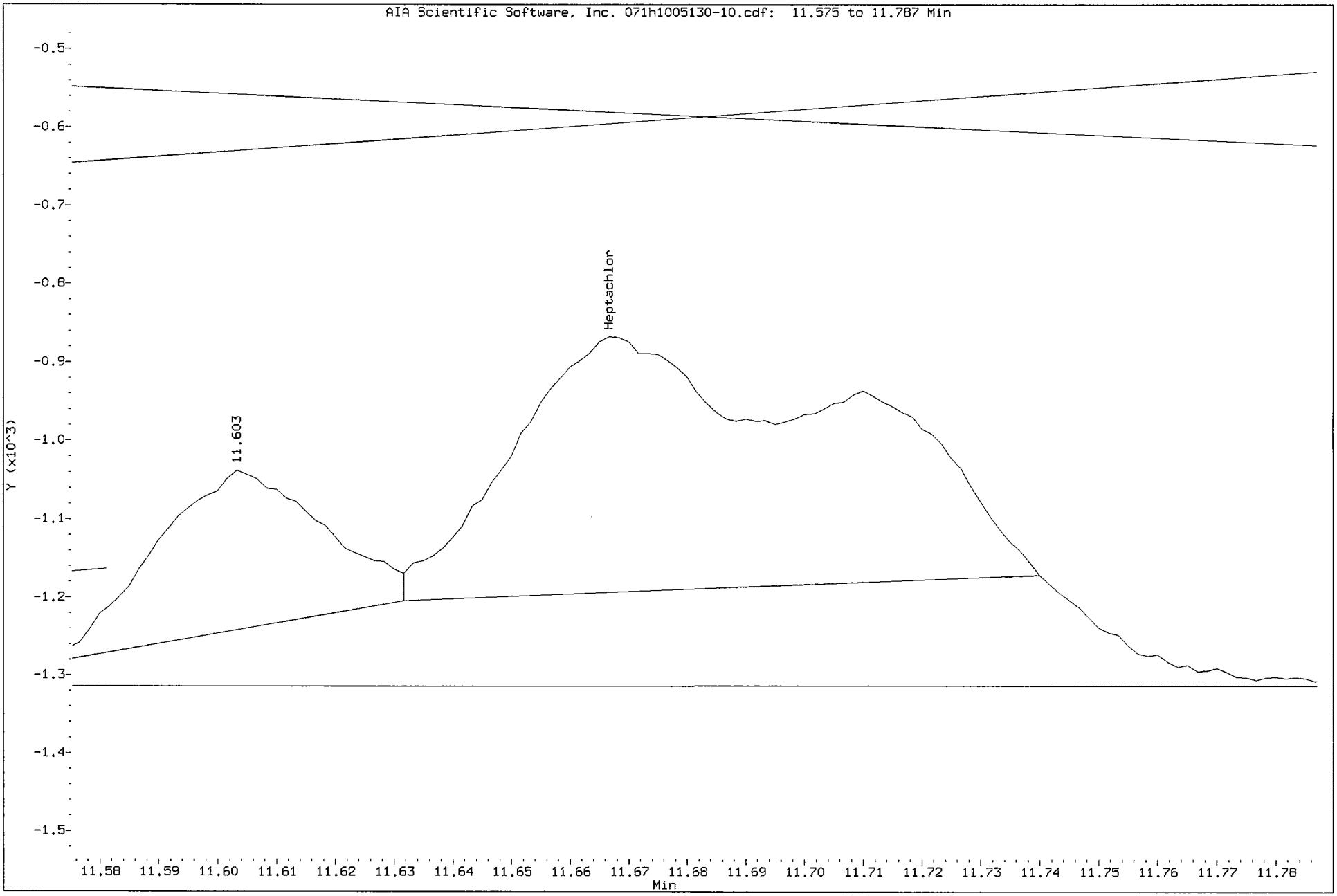
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.66		542								
12.74		451								
12.84		605								
13.02		219								
13.08		182								
13.22		646								
13.33		220								
13.49		1123								
13.73		260								
14.04		670								
14.25		2027								
14.55	14.53 14.67	1325	569541	4,4'-DDE	0.002325	0.403590	3.437500			J
15.80		138								
16.21		496								
16.46		327								
16.99		813								
17.29		1041								
17.49		140								
18.25		295								
20.13		134								
20.74	20.72 20.86	45700	444411	Decachlorobiphenyl	0.102833	17.85290		85.7	55 - 130	
21.27		700								
21.39		595								
22.25		241								
22.79		1560								
23.11		337								

Manually Integrated Peaks



Start: 11.70 Stop: 11.74

Data File: /chem/tracegc84.i/h100524e.b/071h1005130-10.d/071h1005130-10.cdf
Injection Date: 26-MAY-2010 08:04
Instrument: tracegc84.i
Client Sample ID: SS11-0-1



Data File: /chem/tracegc84.i/h100524e_2C.b/071h1005130-10.d

Date : 26-MAY-2010 08:04

Client ID: SS11-0-1

Instrument: tracegc84.i

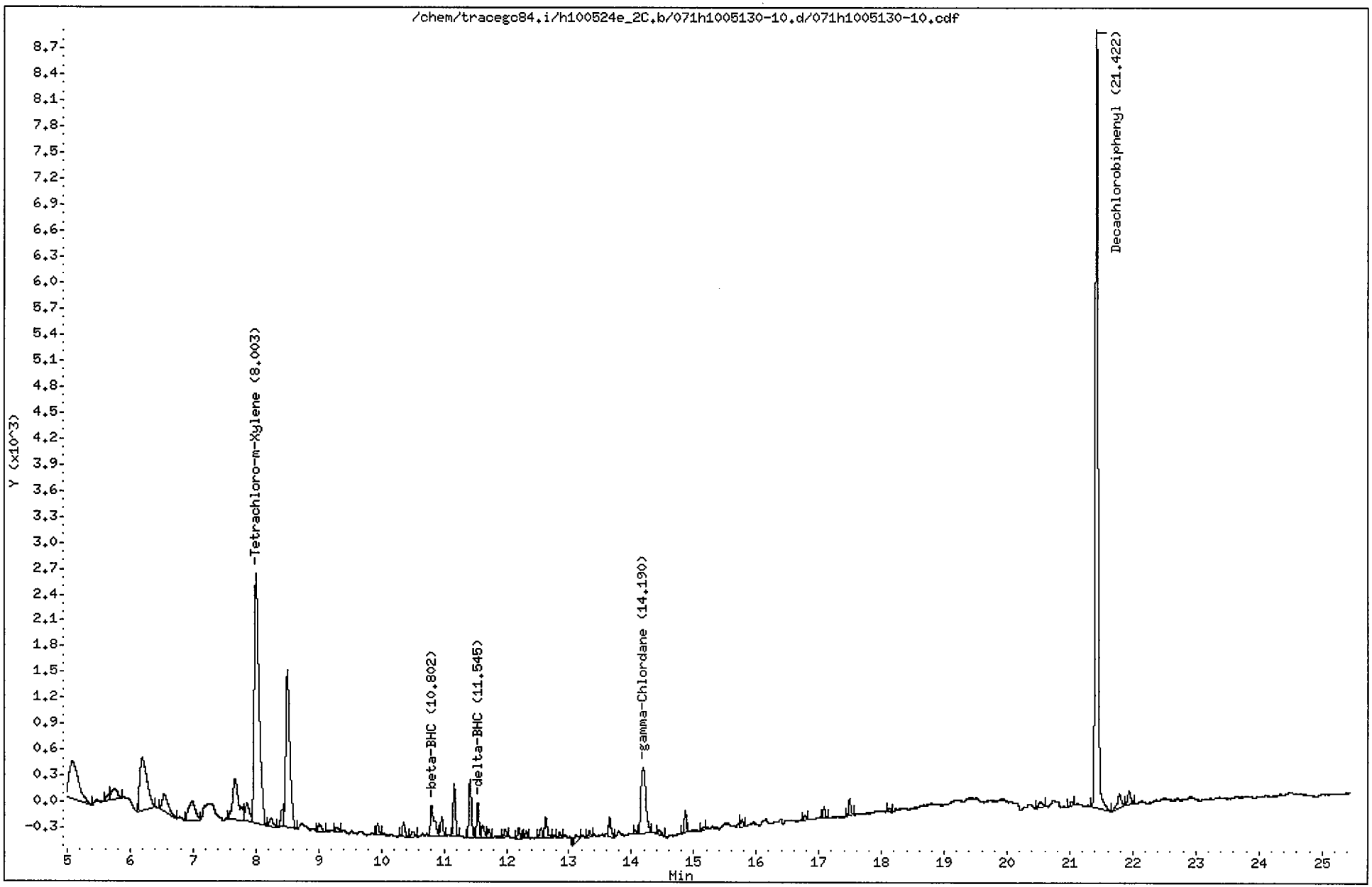
Sample Info: 1005130-10

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-10 Client Smp Id : SS11-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 08:04 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS11-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.54		37164028								
3.23		29782								
4.39		6072								
5.08		4543								
5.67		244								
5.75		808								
6.19		4824								
6.54		1330								
6.98		1635								
7.67		3316								
7.86		963								
8.00	7.97 8.11	15395	345165	Tetrachloro-m-Xylene	0.044602	7.743378		74.3	70 - 125	
8.24		380								
8.41		647								
8.50		8087								
9.01		334								
9.30		160								
9.94		334								
10.36		473								
10.51		228								
10.80	10.79 10.93	1541	203322	beta-BHC	0.007574	1.314961	0.886458			
10.97		608								
11.16		1585								
11.42		1850								
11.54	11.49 11.63	1032	416372	delta-BHC	0.002479	0.430304	1.770833			J
11.62		469								
11.72		272								
11.99		251								
12.20		314								
12.32		218								
12.55		326								
12.63		756								
12.85		141								
13.11		370								
13.33		153								
13.65		654								
14.06		97								

6/4/10

CompuChem

Lab Smp Id : 1005130-10 Client Smp Id : SS11-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 08:04 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS11-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.19	14.13 14.27	4098	394802	gamma-Chlordane	0.010377	1.801622	1.770833			
14.44		196								
14.86		537								
15.16		91								
15.77		243								
16.77		119								
17.08		309								
17.49		476								
18.13		117								
20.53		222								
21.02		156								
21.42	21.41 21.55	27520	301734	Decachlorobiphenyl	0.091203	15.83384		76.0	55 - 130	
21.79		714								
21.94		492								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS18-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	3.4	P
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

Data File: /chem/tracegc84.i/h100524e.b/075h1005130-14.d

Date : 26-MAY-2010 10:00

Client ID: SS18-0-1

Sample Info: 1005130-14

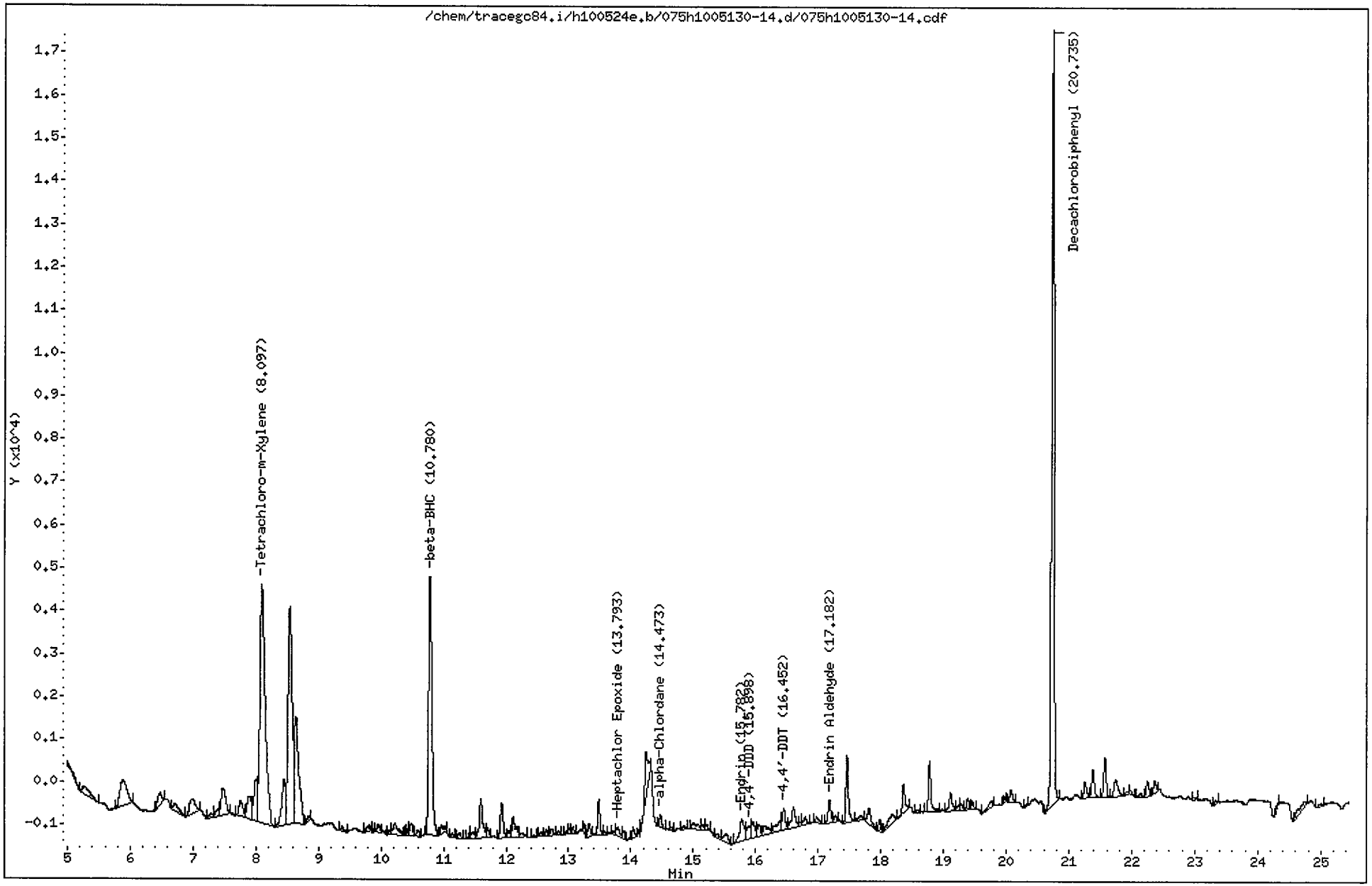
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



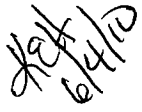
CompuChem

Lab Smp Id : 1005130-14 Client Smp Id : SS18-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:00 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS18-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.51			37716								
1.64			9756								
1.72			19260								
1.79			23536								
2.12			163831								
2.18			379843								
3.13			3519								
3.19			5810								
3.37			14853								
3.55			7581								
3.83			24317								
4.27			829								
4.43			129								
4.60			714								
4.64			670								
4.75			23256								
5.27			1554								
5.89			4814								
6.47			1301								
6.71			986								
7.00			2274								
7.28			373								
7.40			669								
7.48			3285								
7.76			1686								
7.90			2814								
8.00			3955								
8.10	8.08	8.22	32380	539702	Tetrachloro-m-Xylene	0.059996	10.86884		100.0	70 - 125	
8.45			4545								
8.54			23060								
8.64			12591								
8.84			294								
9.38			351								
9.80			504								
9.96			644								
10.13			309								
10.22			1564								



CompuChem

Lab Smp Id : 1005130-14 Client Smp Id : SS18-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:00 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS18-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.40		137								
10.42		360								
10.48		964								
10.59		449								
10.78	10.67 10.81	22904	318610	beta-BHC	0.071884	13.02249	0.925000			
10.97		657								
11.13		188								
11.25		346								
11.41		243								
11.48		553								
11.60		3284								
11.71		558								
11.93		2582								
12.04		455								
12.11		1927								
12.24		371								
12.44		123								
12.56		194								
12.65		325								
12.72		486								
12.84		293								
12.97		172								
13.02		286								
13.07		294								
13.26		426								
13.33		845								
13.48		2001								
13.57		191								
13.72		223								
13.79	13.77 13.91	933	642292	Heptachlor Epoxide	0.001451	0.262872	1.847826			J
13.89		579								
14.04		667								
14.24		4188								
14.47	14.35 14.49	771	564490	alpha-Chlordane	0.001366	0.247434	1.847826			J
14.64		160								
14.85		264								
15.00		1011								

CompuChem

Lab Smp Id : 1005130-14 Client Smp Id : SS18-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:00 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS18-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.15		381								
15.22		401								
15.38		420								
15.53		962								
15.78	15.69 15.83	2666	519295	Endrin	0.005134	0.930051	3.586957			J
15.90	15.84 15.98	1248	417785	4,4'-DDD	0.002987	0.541156	3.586957			J
15.96		1511								
16.05		1066								
16.15		1249								
16.39		1419								
16.45	16.44 16.58	1773	486148	4,4'-DDT	0.003647	0.660696	3.586957			J
16.60		2097								
16.73		225								
16.79		609								
16.98		501								
17.18	17.09 17.23	1619	367936	Endrin Aldehyde	0.004398	0.796649	3.586957			J
17.28		321								
17.46		4308								
17.68		490								
17.81		1387								
17.98		615								
18.18		1471								
18.36		1862								
18.60		247								
18.77		3516								
19.11		1394								
19.23		304								
19.28		412								
19.39		728								
19.46		502								
19.77		740								
19.96		325								
20.07		905								
20.32		125								
20.74	20.72 20.86	50323	444411	Decachlorobiphenyl	0.113235	20.51362		94.4	55 - 130	
21.26		1218								
21.38		2114								

CompuChem

Lab Smp Id : 1005130-14 Client Smp Id : SS18-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:00 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS18-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.58		2668								
21.75		1915								
21.92		172								
21.98		307								
22.14		295								
22.25		1076								
22.36		804								
22.99		149								
23.34		188								
24.33		269								
24.74		1249								
25.00		223								

Data File: /chem/tracegc84.i/h100524e_2C.b/075h1005130-14.d

Page 1

Date : 26-MAY-2010 10:00

Client ID: SS18-0-1

Instrument: tracegc84.i

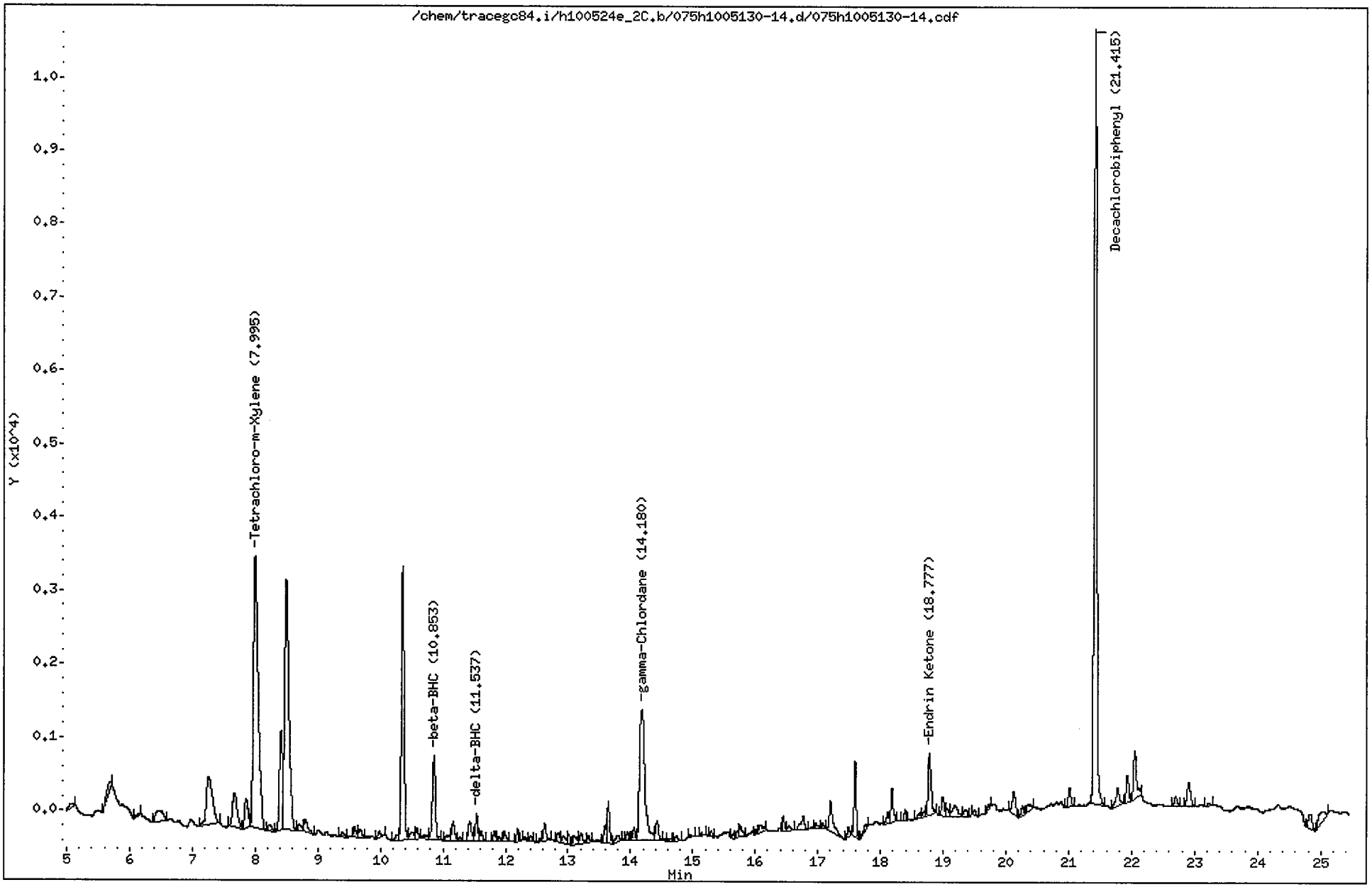
Sample Info: 1005130-14

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-14 Client Smp Id : SS18-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:00 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS18-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.95			150775								
1.99			251265								
2.87			11306								
3.20			13989								
3.50			559								
3.83			1427								
4.38			10164								
5.06			263								
5.69			546								
6.15			133								
6.46			1236								
7.26			4607								
7.67			2472								
7.85			1656								
8.00	7.97	8.11	19687	345165	Tetrachloro-m-Xylene	0.057036	10.33270		95.1	70 - 125	
8.22			348								
8.41			4525								
8.49			15981								
8.70			332								
8.80			736								
9.39			258								
9.59			430								
9.67			371								
9.98			291								
10.28			261								
10.35			10866								
10.52			469								
10.59			361								
10.70			248								
10.85	10.79	10.93	3769	203322	beta-BHC	0.018532	3.357271	0.925000			
11.05			308								
11.16			903								
11.27			109								
11.42			1031								
11.54	11.49	11.63	1058	416372	delta-BHC	0.002539	0.459890	1.847826			J
11.61			415								
11.82			368								

KEH 6/4/10

CompuChem

Lab Smp Id : 1005130-14 Client Smp Id : SS18-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:00 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS18-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.90		171								
11.98		411								
12.19		356								
12.31		110								
12.40		159								
12.55		131								
12.63		708								
12.84		473								
12.93		415								
13.01		349								
13.10		526								
13.21		499								
13.32		210								
13.59		556								
13.64		1574								
13.80		351								
13.95		244								
14.05		400								
14.18	14.13 14.27	10605	394802	gamma-Chlordane	0.026862	4.866220	1.847826			
14.43		840								
14.61		141								
14.74		260								
14.96		99								
15.14		147								
15.29		185								
15.65		135								
15.71		175								
15.76		529								
16.01		101								
16.08		383								
16.45		483								
16.54		200								
16.77		797								
16.96		236								
17.07		184								
17.20		1833								
17.48		363								

CompuChem

Lab Smp Id : 1005130-14 Client Smp Id : SS18-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:00 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS18-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.59		2399								
17.76		250								
18.11		391								
18.18		1200								
18.39		327								
18.62		198								
18.69		191								
18.78	18.75 18.89	2706	304950	Endrin Ketone	0.008870	1.606940	3.586957			J
18.99		753								
19.07		315								
19.18		887								
19.37		391								
19.50		198								
19.73		140								
20.12		1167								
20.26		374								
20.37		443								
21.01		755								
21.42	21.41 21.55	31127	301734	Decachlorobiphenyl	0.103160	18.68849		86.0	55 - 130	
21.78		967								
21.93		1048								
22.05		2232								
22.70		393								
22.90		1242								
23.22		121								
24.83		832								
25.04		1011								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS23-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.54	JP
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	1.9	J
50-29-3	4,4'-DDT	1.3	J
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	0.62	J
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

Data File: /chem/tracegc84.i/h100524d.b/058h1005130-01.d

Date : 26-MAY-2010 01:48

Client ID: SS23-00-01

Instrument: tracegc84.i

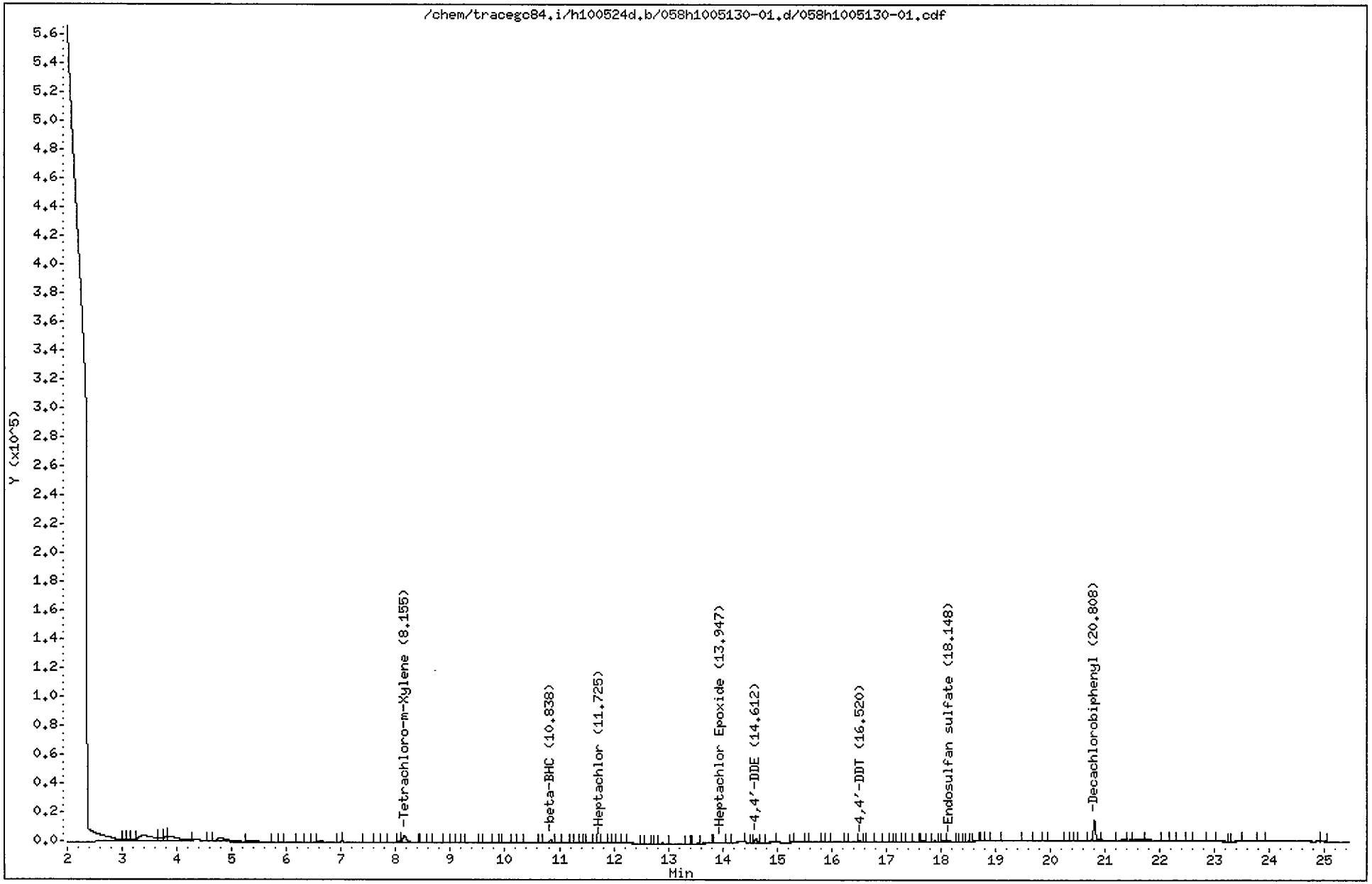
Sample Info: 1005130-01

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-01 Client Smp Id : SS23-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 01:48 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS23-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.05		151								
1.53		37357820								
3.02		4376								
3.13		4245								
3.19		7310								
3.39		62583								
3.74		9025								
3.81		7350								
3.86		38177								
4.63		831								
4.80		25130								
5.34		10570								
5.83		149								
5.88		260								
6.23		841								
6.52		678								
6.61		6542								
7.01		337								
7.46		3334								
7.65		739								
7.92		2739								
8.06		4331								
8.16	8.11 8.25	27086	539702	Tetrachloro-m-Xylene	0.050185	9.293529		83.6	70 - 125	
8.45		278								
8.47		1663								
8.59		847								
8.94		480								
9.14		236								
9.22		145								
9.57		197								
9.85		246								
10.01		797								
10.28		260								
10.65		186								
10.84	10.71 10.85	7277	318610	beta-BHC	0.022840	4.229599	0.945556			
11.10		1070								
11.20		252								

6/3/10

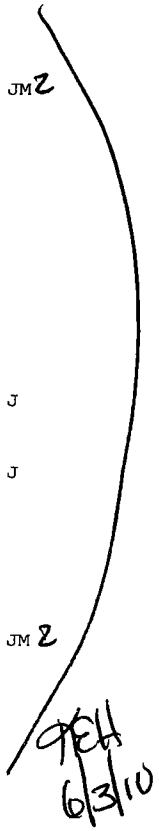
CompuChem

Lab Smp Id : 1005130-01 Client Smp Id : SS23-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 01:48 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS23-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.31		1668								
11.41		190								
11.47		592								
11.54		2130								
11.65		508								
11.72	11.67 11.81	1815	750482	Heptachlor	0.002418	0.447860	1.888889			JM2
11.77		1431								
11.99		308								
12.07		922								
12.18		523								
12.29		1118								
12.62		764								
12.71		131								
12.81		138								
12.90		1199								
13.33		332								
13.55		1459								
13.72		2291								
13.95	13.81 13.95	2081	642292	Heptachlor Epoxide	0.003238	0.599704	1.888889			J
14.31		4649								
14.54		276								
14.61	14.57 14.71	6939	569541	4,4'-DDE	0.012182	2.255877	3.666667			J
14.93		1127								
15.28		491								
15.55		299								
15.84		487								
15.91		660								
16.28		208								
16.52	16.48 16.62	3385	486148	4,4'-DDT	0.006961	1.289046	3.666667			JM2
16.59		143								
16.69		888								
17.04		447								
17.09		576								
17.18		124								
17.34		227								
17.54		402								
17.68		911								



CompuChem

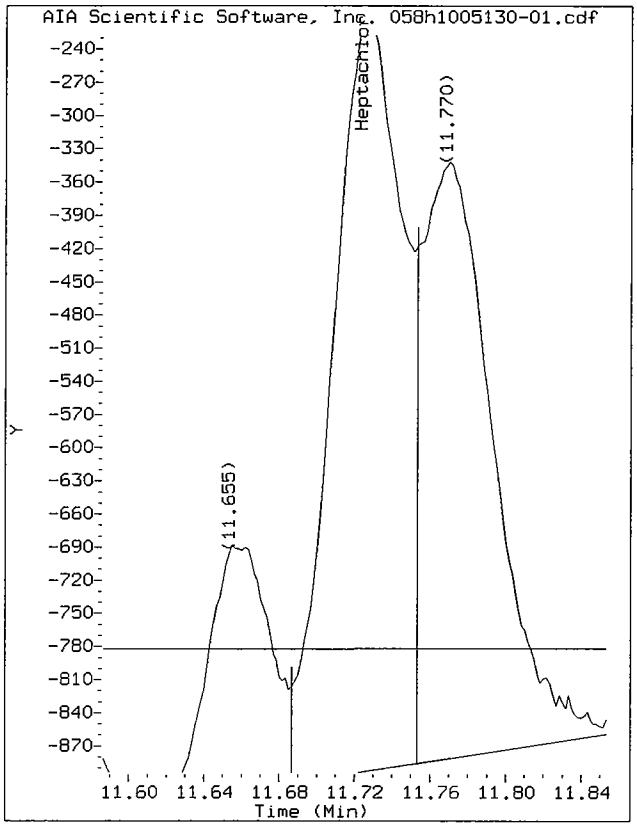
Lab Smp Id : 1005130-01 Client Smp Id : SS23-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 01:48 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS23-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

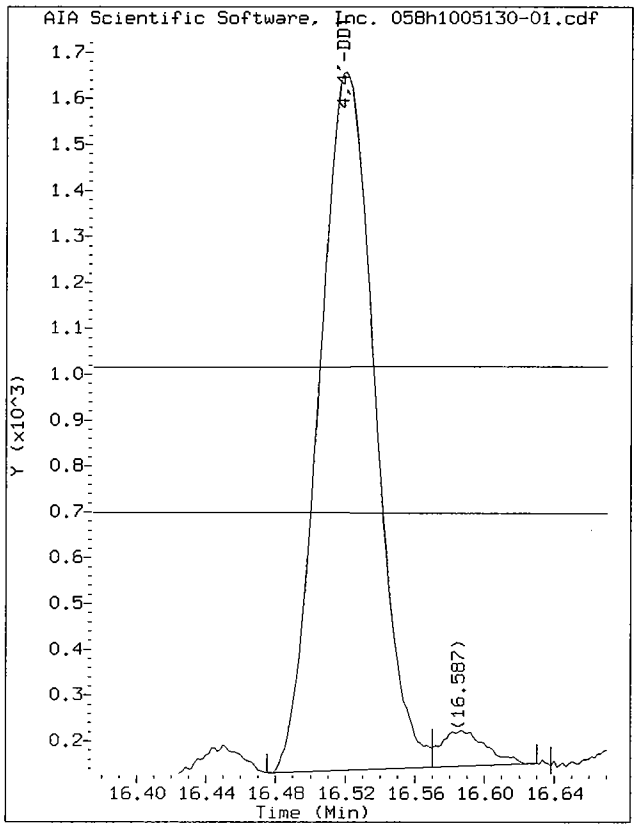
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.88		531								
18.05		598								
18.15	18.07 18.21	1503	409905	Endosulfan sulfate	0.003664	0.678567	3.666667			J
18.37		136								
18.50		188								
18.66		878								
18.79		399								
18.88		1077								
18.95		1954								
19.52		986								
19.80		894								
20.11		3408								
20.33		414								
20.39		145								
20.61		1280								
20.81	20.77 20.91	38522	444411	Decachlorobiphenyl	0.086681	16.05203		72.2	55 - 130	
21.33		3422								
21.46		2342								
21.61		10217								
21.79		5843								
22.24		304								
22.53		332								
23.02		977								
23.09		4073								
23.49		659								
23.84		748								
24.97		420								

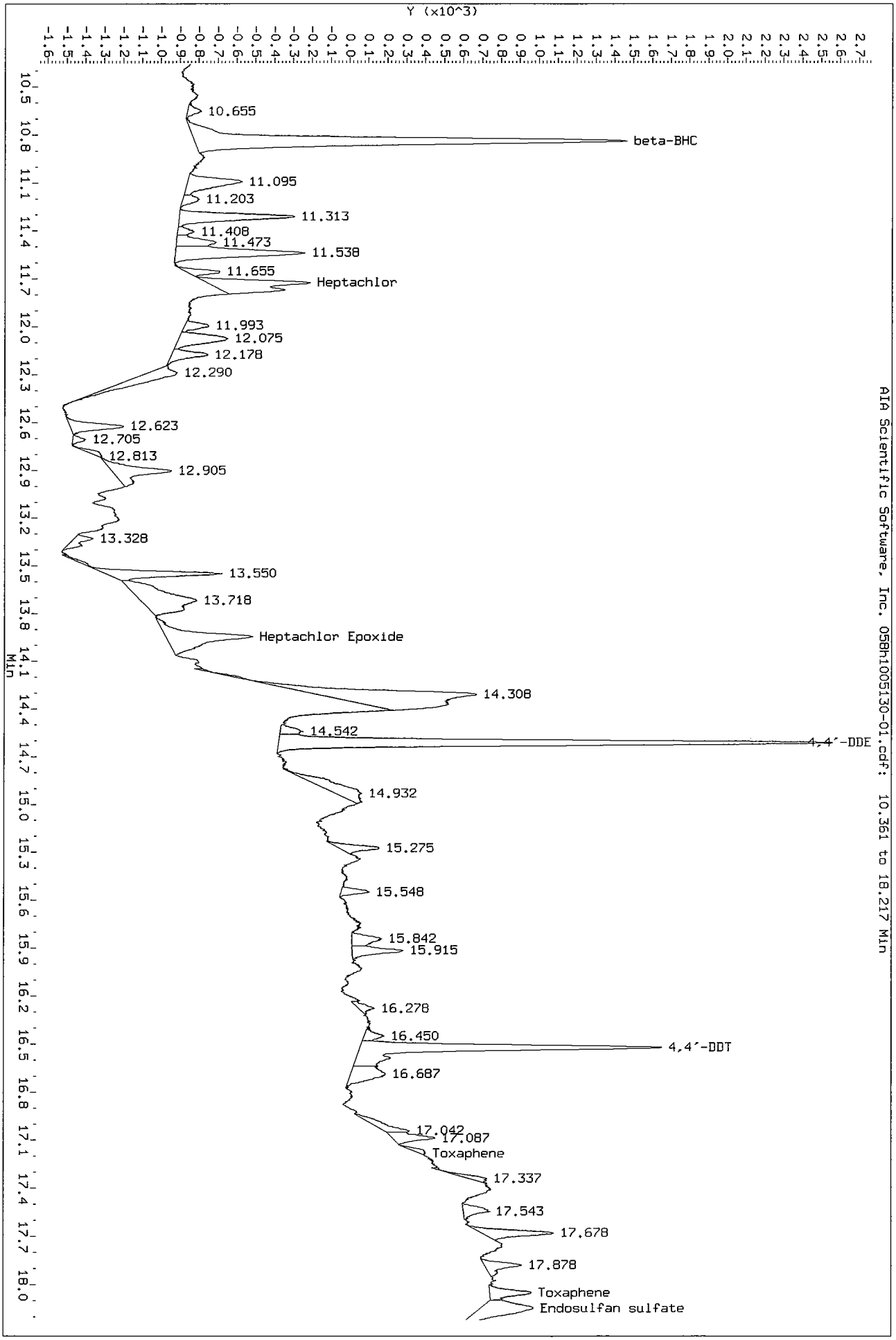
Manually Integrated Peaks



Start: 11.69 Stop: 11.75



Start: 16.48 Stop: 16.57


Data File: /chem/tracegc84.i/h100524d.b/058h1005130-01.d/058h1005130-01.cdf
Injection Date: 26-MAY-2010 01:48
Instrument: tracegc84.i
Client Sample ID: SS23-00-01
Y (x10^3)
Min
10.655
beta-BHC
11.095
11.203
11.313
11.408
11.473
11.538
11.655
Heptachlor
11.993
12.075
12.178
12.290
12.623
12.705
12.813
12.905
13.328
13.550
13.718
Heptachlor Epoxide
14.308
14.542
4,4'-DDE
14.932
15.275
15.548
15.842
15.915
16.278
16.450
4,4'-DDT
16.687
17.042
17.087
Toxaphene
17.337
17.543
17.678
17.878
Toxaphene
Endosulfan sulfate
AIA Scientific Software, Inc. 058h1005130-01.cdf: 10.361 to 18.217 Min

Data File: /chem/tracegc84.i/h100524d_2C.b/058h1005130-01.d

Date : 26-MAY-2010 01:48

Client ID: SS23-00-01

Instrument: tracegc84.i

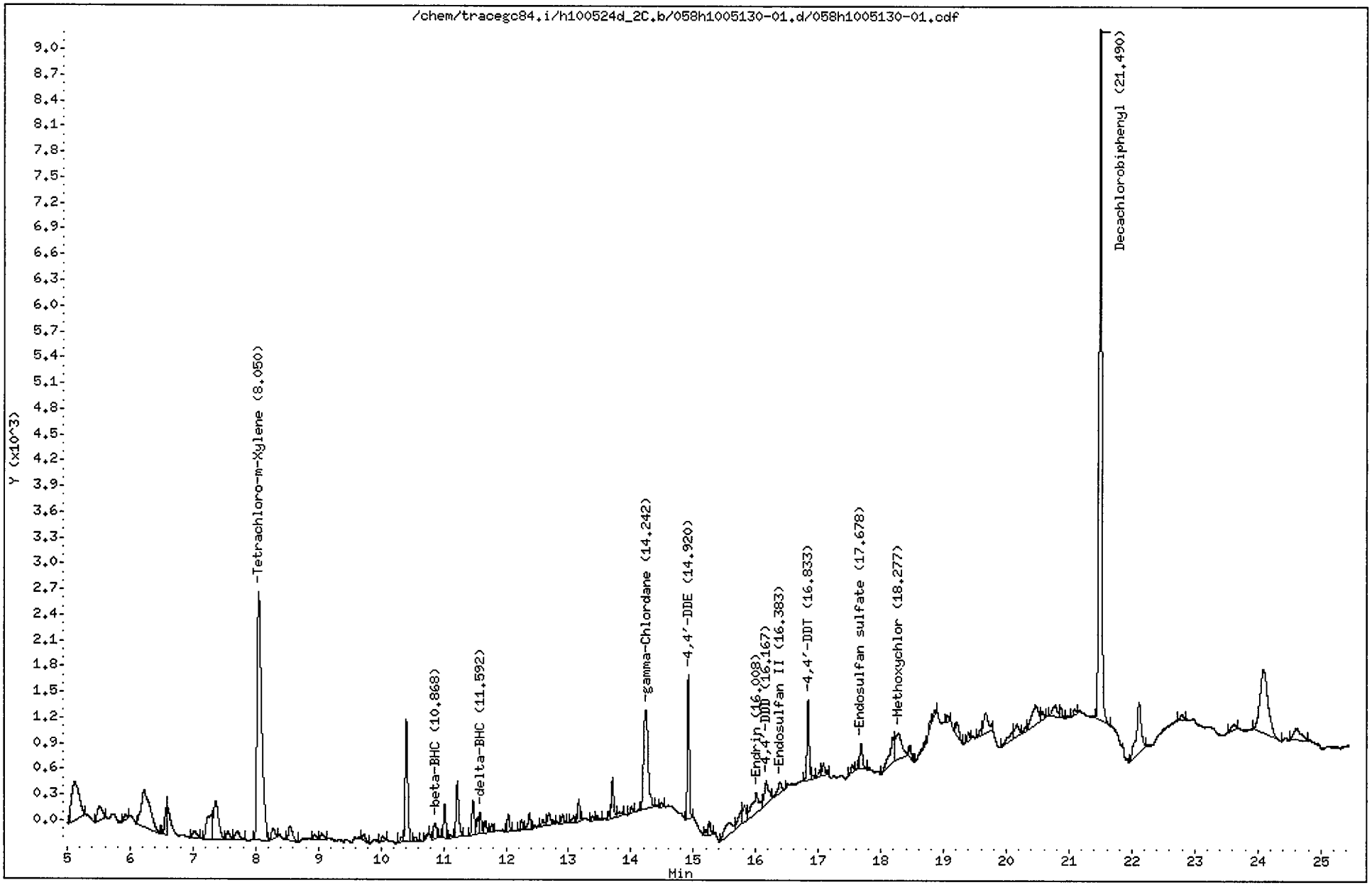
Sample Info: 1005130-01

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-01 Client Smp Id : SS23-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 01:48 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS23-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.54			25310303								
2.73			907								
2.79			551								
2.85			440								
3.20			4023								
3.48			203								
3.84			3661								
4.41			12684								
5.12			3795								
5.51			973								
5.93			208								
6.23			4339								
6.59			836								
7.03			347								
7.28			1810								
7.36			2461								
7.56			369								
7.71			459								
8.05	8.01	8.15	14724	345165	Tetrachloro-m-Xylene	0.042655	7.899067		71.1	70 - 125	
8.28			481								
8.55			751								
8.94			172								
9.06			243								
9.73			221								
10.03			193								
10.33			164								
10.41			4020								
10.55			173								
10.74			111								
10.87	10.83	10.97	599	203322	beta-BHC	0.002941	0.544656	0.945556			J
11.02			989								
11.11			101								
11.22			1852								
11.47			1135								
11.54			445								
11.59	11.53	11.67	616	416372	delta-BHC	0.001477	0.273526	1.888889			J
11.67			373								

6/3/10

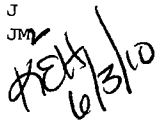
CompuChem

Lab Smp Id : 1005130-01 Client Smp Id : SS23-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 01:48 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS23-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.77		200								
12.04		494								
12.25		319								
12.38		551								
12.59		244								
12.68		540								
12.91		286								
13.08		199								
13.16		593								
13.38		133								
13.45		143								
13.65		172								
13.70		1148								
13.81		209								
14.01		188								
14.24	14.17 14.31	5830	394802	gamma-Chlordane	0.014767	2.734607	1.888889			
14.49		93								
14.92	14.88 15.02	3652	352110	4,4'-DDE	0.010369	1.920170	3.666667			J
15.20		126								
15.26		370								
15.59		1252								
15.77		863								
15.82		639								
16.01	15.88 16.02	1716	319049	Endrin	0.005378	0.996016	3.666667			J
16.17	16.12 16.26	1358	248368	4,4'-DDD	0.005468	1.012538	3.666667			J
16.38	16.34 16.48	679	304391	Endosulfan II	0.002227	0.412481	3.666667			J
16.83	16.79 16.93	2229	294834	4,4'-DDT	0.007560	1.400036	3.666667			JM
16.90		112								
17.02		250								
17.08		431								
17.54		239								
17.68	17.65 17.79	900	267371	Endosulfan sulfate	0.003362	0.622660	3.666667			J
18.18		1428								
18.28	18.25 18.39	2228	129586	Methoxychlor	0.017185	3.182487	18.88889			J
18.46		379								
18.69		243								
18.79		194								



CompuChem

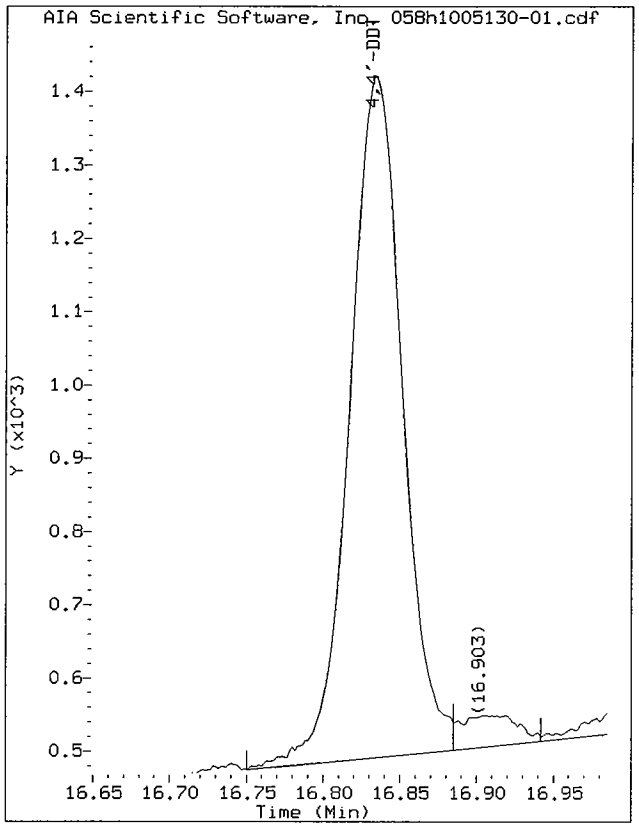
Lab Smp Id : 1005130-01 Client Smp Id : SS23-00-01
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 01:48 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS23-00-01

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

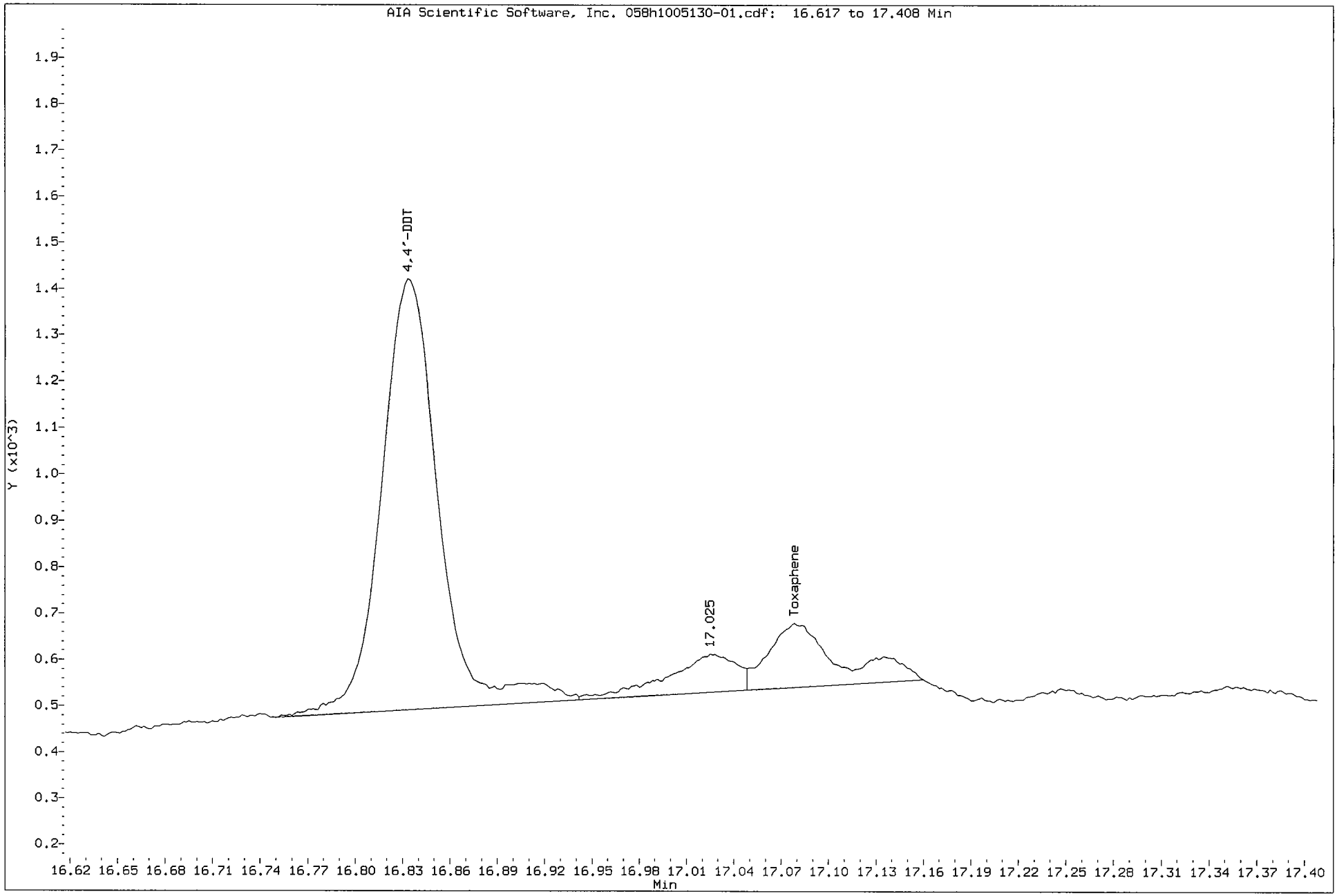
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.86		158								
19.06		208								
19.21		560								
19.40		215								
19.59		175								
19.67		1263								
20.11		634								
20.17		683								
20.31		139								
20.47		1616								
20.58		286								
20.78		677								
20.87		336								
21.09		162								
21.49	21.45 21.59	23807	301734	Decachlorobiphenyl	0.078901	14.61124		65.8	55 - 130	
22.12		3295								
22.79		222								
23.61		332								
24.09		6576								
24.62		1097								

Manually Integrated Peaks



Start: 16.75 Stop: 16.89

Data File: /chem/tracegc84.i/h100524d_2C.b/058h1005130-01.d/058h1005130-01.cdf
Injection Date: 26-MAY-2010 01:48
Instrument: tracegc84.i
Client Sample ID: SS23-00-01



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS24-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 11 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	0.60	J
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	93	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

Data File: /chem/tracegc84.i/h100524d.b/060h1005130-03.d

Date : 26-MAY-2010 02:46

Client ID: SS24-0-1

Instrument: tracegc84.i

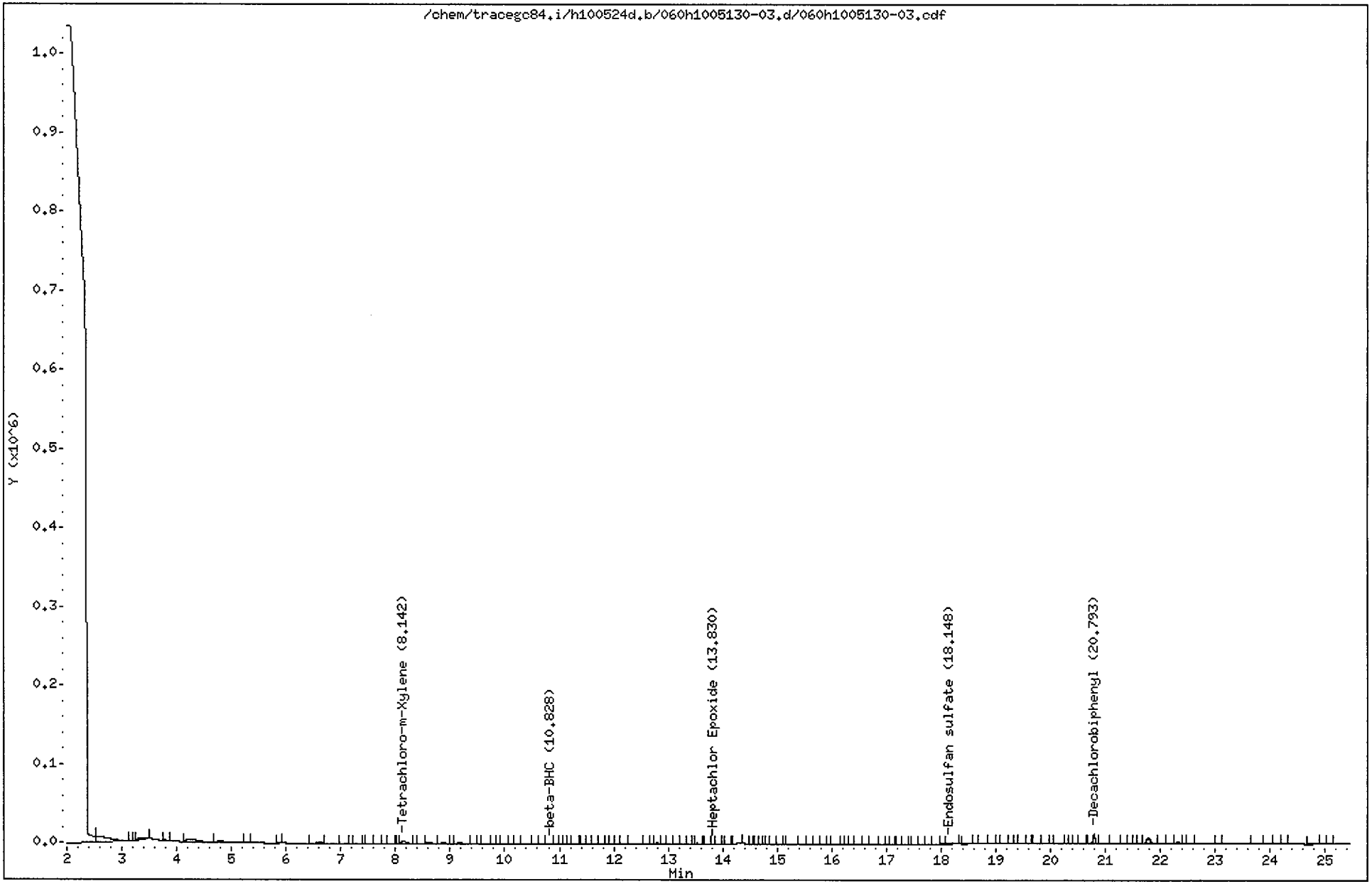
Sample Info: 1005130-03

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-03 Client Smp Id : SS24-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:46 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS24-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 11(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.46		53893446								
2.55		112701								
3.17		268								
3.38		18840								
3.78		1645								
4.24		44798								
4.78		19664								
5.31		393								
5.91		229								
6.63		2076								
7.02		816								
7.27		848								
7.53		1411								
7.80		252								
7.92		2656								
8.02		464								
8.05		809								
8.14	8.11 8.25	20577	539702	Tetrachloro-m-Xylene	0.038125	7.139458		63.5*	70 - 125	R
8.39		392								
8.49		2799								
8.59		11274								
8.88		8050								
9.06		999								
9.17		8248								
9.43		368								
9.56		212								
9.63		725								
9.80		271								
9.88		142								
10.00		480								
10.23		386								
10.54		668								
10.69		707								
10.83	10.71 10.85	1281	318610	beta-BHC	0.004021	0.752919	0.956180			J
10.94		293								
11.01		141								
11.09		325								

CompuChem

Lab Smp Id : 1005130-03 Client Smp Id : SS24-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:46 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS24-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 11(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.18		152								
11.29		860								
11.46		1201								
11.52		1539								
11.64		1279								
11.75		757								
11.96		1514								
12.07		325								
12.16		933								
12.60		1309								
12.69		485								
12.79		3200								
12.89		457								
13.01		496								
13.12		671								
13.25		783								
13.38		1251								
13.53		2190								
13.71		610								
13.83	13.81 13.95	798	642292	Heptachlor Epoxide	0.001241	0.232372	1.910112			J
14.01		221								
14.09		331								
14.29		2699								
14.52		188								
14.63		308								
14.69		229								
14.82		203								
14.90		288								
15.05		336								
15.24		1008								
15.60		192								
15.83		521								
16.03		619								
16.20		161								
16.38		446								
16.50		1053								
16.77		458								

CompuChem

Lab Smp Id : 1005130-03 Client Smp Id : SS24-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:46 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS24-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 11(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.03		398								
17.09		865								
17.23		318								
17.33		574								
17.52		456								
17.66		493								
17.78		310								
18.04		694								
18.15	18.07 18.21	6172	409905	Endosulfan sulfate	0.015055	2.819234	3.707865			J
18.50		1121								
18.64		419								
18.88		326								
19.05		161								
19.30		152								
19.45		738								
19.61		508								
19.76		1088								
19.94		772								
20.01		737								
20.14		915								
20.38		200								
20.43		354								
20.54		681								
20.79	20.77 20.91	33335	444411	Decachlorobiphenyl	0.075009	14.04670		62.5	55 - 130	
20.99		1205								
21.32		1006								
21.44		373								
21.64		652								
21.78		32570								
21.99		768								
22.32		6549								
22.51		856								
23.07		370								
23.73		1253								
23.96		393								
24.24		309								
24.84		2933								

CompuChem

Lab Smp Id : 1005130-03 Client Smp Id : SS24-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:46 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS24-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 11(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
25.09		491								

Data File: /chem/tracegc84.i/h100524d_2C.b/060h1005130-03.d

Date : 26-MAY-2010 02:46

Client ID: SS24-0-1

Instrument: tracegc84.i

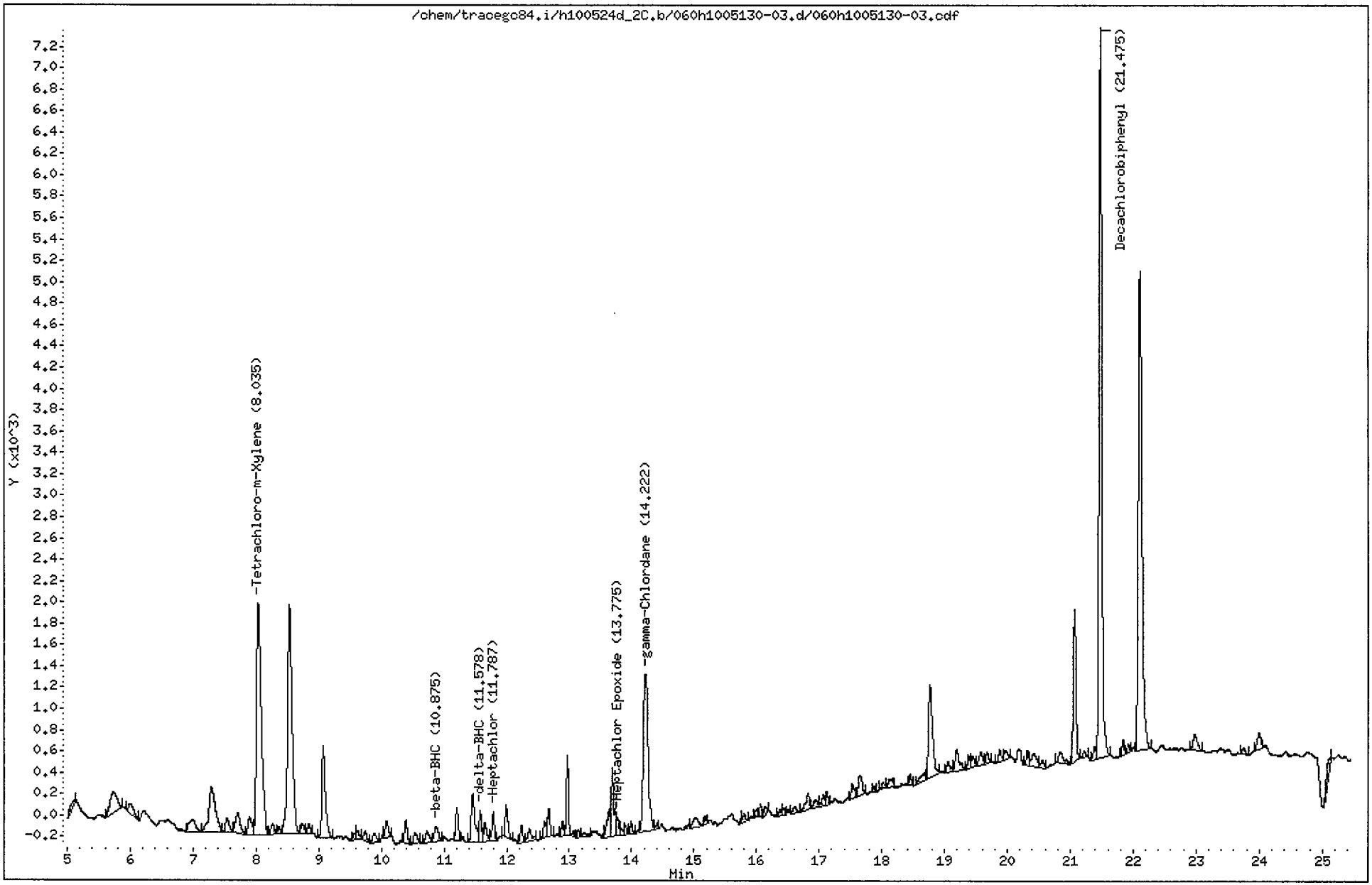
Sample Info: 1005130-03

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-03 Client Smp Id : SS24-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:46 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS24-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 11(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57			14100238								
1.72			28588699								
2.72			1238								
2.78			1294								
3.18			37457								
3.84			22393								
4.40			9064								
5.11			277								
5.74			1574								
6.00			493								
7.00			883								
7.30			3177								
7.54			612								
7.71			1038								
7.90			751								
8.03	8.01	8.15	11753	345165	Tetrachloro-m-Xylene	0.034050	6.376476		56.8*	70 - 125	R
8.26			360								
8.37			173								
8.53			10612								
8.74			335								
8.85			280								
9.07			3406								
9.57			187								
9.62			282								
9.74			314								
9.89			348								
10.09			511								
10.39			651								
10.54			401								
10.73			438								
10.88	10.83	10.97	651	203322	beta-BHC	0.003197	0.598669	0.956180			J
11.20			837								
11.46			1821								
11.58	11.53	11.67	791	416372	delta-BHC	0.001900	0.355757	1.910112			J
11.66			590								
11.79	11.66	11.80	766	447981	Heptachlor	0.001708	0.319787	1.910112			J
11.99			905								

6/3/10

CompuChem

Lab Smp Id : 1005130-03 Client Smp Id : SS24-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:46 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS24-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 11(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.23		424								
12.37		437								
12.61		435								
12.67		743								
12.89		348								
12.97		1718								
13.06		117								
13.14		173								
13.23		163								
13.64		867								
13.69		1997								
13.78		419								
13.83		174								
13.90		209								
13.99		281								
14.22	14.17 14.31	7845	394802	gamma-Chlordane	0.019871	3.721104	1.910112			
14.41		113								
15.03		512								
15.18		163								
15.80		222								
15.99		142								
16.06		246								
16.14		189								
16.37		151								
16.43		168								
16.61		196								
16.82		601								
16.93		318								
17.07		317								
17.12		284								
17.53		461								
17.65		796								
17.88		113								
18.01		184								
18.12		356								
18.45		243								
18.66		401								

CompuChem

Lab Smp Id : 1005130-03 Client Smp Id : SS24-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 02:46 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS24-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 11(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.77		3813								
19.05		354								
19.19		871								
19.38		297								
19.45		318								
19.57		484								
19.68		302								
19.87		328								
19.98		342								
20.31		377								
20.43		740								
20.56		249								
20.84		528								
21.07		4178								
21.23		156								
21.38		304								
21.48	21.45 21.59	20812	301734	Decachlorobiphenyl	0.068975	12.91661		57.5	55 - 130	
21.84		347								
21.92		202								
22.11		18374								
22.97		691								
23.75		199								
24.00		614								
25.14		631								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS25-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	3.1	
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.21	JP
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	2.5	JP
60-57-1	Dieldrin	1.3	J
959-98-8	Endosulfan I	0.25	JP
33213-65-9	Endosulfan II	11	
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	0.39	JP
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	2.0	P
5103-71-9	alpha-Chlordane	1.8	U

Data File: /chem/tracegc84.i/h100524e.b/077h1005130-16.d

Date : 26-MAY-2010 10:58

Client ID: SS25-0-1

Instrument: tracegc84.i

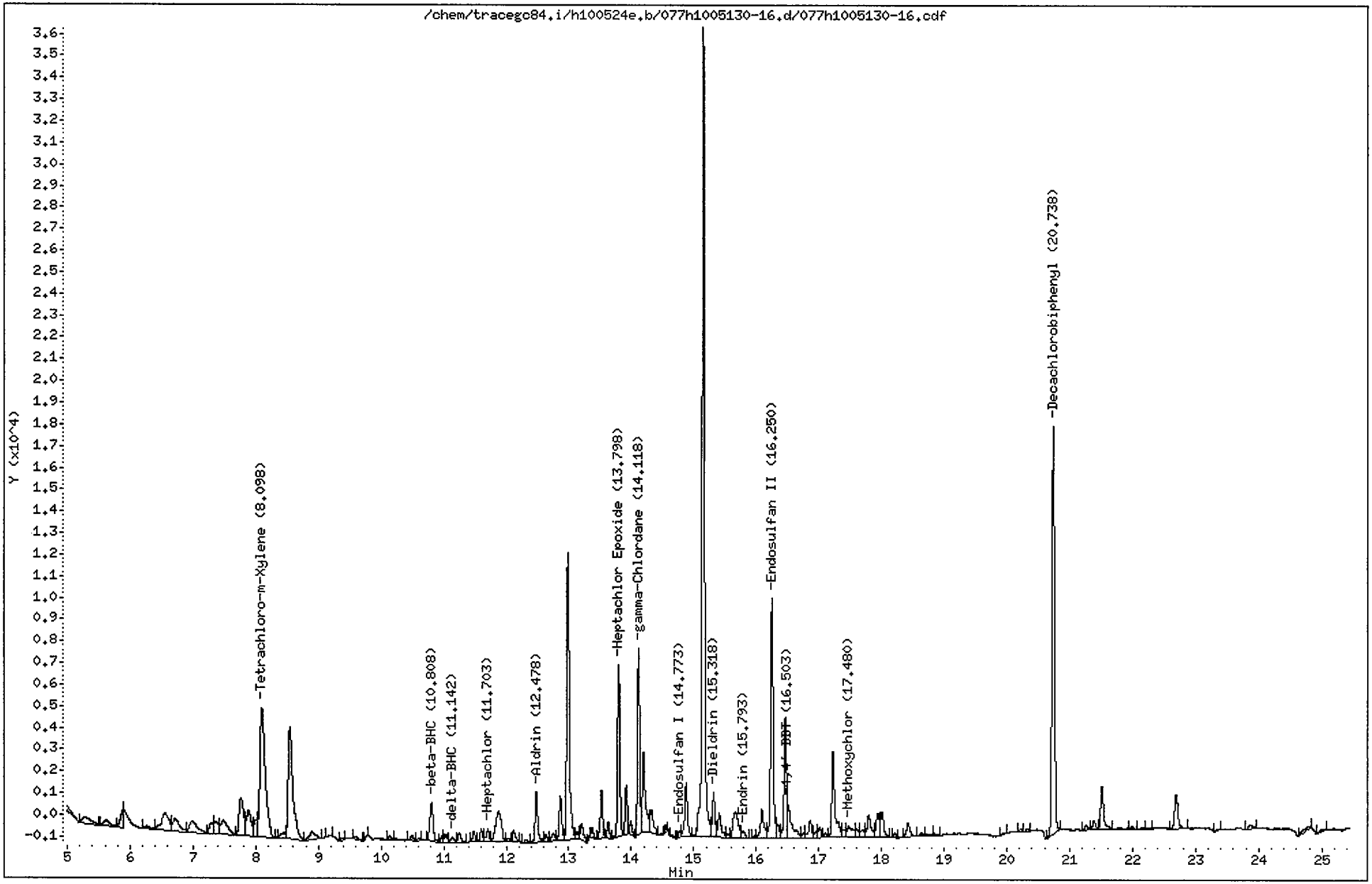
Sample Info: 1005130-16

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-16 Client Smp Id : SS25-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:58 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS25-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			25634								
1.63			7364								
1.72			8463								
1.80			11077								
2.10			101827								
2.13			17299								
2.17			137972								
2.42			39584								
3.14			316								
3.19			4148								
3.83			84426								
4.43			692								
4.78			23734								
5.28			2822								
5.62			1691								
5.89			2490								
6.26			619								
6.56			6565								
6.71			3887								
6.99			4504								
7.29			2012								
7.36			2994								
7.48			4840								
7.76			8797								
7.89			5865								
8.01			2707								
8.10	8.08	8.22	35242	539702	Tetrachloro-m-Xylene	0.065297	11.45563		108.8	70 - 125	
8.45			1221								
8.54			26886								
8.90			2472								
9.16			157								
9.38			267								
9.59			385								
9.78			221								
10.14			633								
10.49			630								
10.60			196								

CompuChem

Lab Smp Id : 1005130-16 Client Smp Id : SS25-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:58 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS25-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.81	10.67 10.81	6868	318610	beta-BHC	0.021553	3.781227	0.895789			J
10.96		667								
11.03		1160								
11.14	11.11 11.25	837	704062	delta-BHC	0.001189	0.208564	1.789474			J
11.25		1389								
11.48		1323								
11.60		1718								
11.70	11.63 11.77	1984	750482	Heptachlor	0.002642	0.463561	1.789474			J
11.87		9138								
12.04		512								
12.12		1697								
12.31		422								
12.48	12.35 12.49	6718	689285	Aldrin	0.009746	1.709883	1.789474			J
12.63		824								
12.75		1097								
12.86		5651								
12.98		37706								
13.13		804								
13.21		2533								
13.33		181								
13.37		1171								
13.52		5847								
13.63		1756								
13.72		157								
13.80	13.77 13.91	19711	642292	Heptachlor Epoxide	0.030689	5.383949	1.789474			
13.92		5285								
13.99		1584								
14.12	14.05 14.19	21258	652722	gamma-Chlordane	0.032568	5.713720	1.789474			
14.20		12447								
14.32		4035								
14.55		584								
14.65		332								
14.77	14.65 14.79	846	594888	Endosulfan I	0.001420	0.249199	1.789474			J
14.88		7414								
15.15		102137								
15.32	15.19 15.33	6039	570655	Dieldrin	0.010583	1.856592	3.473684			J
15.41		4122								

EE 6/4/10

CompuChem

Lab Smp Id : 1005130-16 Client Smp Id : SS25-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:58 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS25-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.55		561								
15.66		7030								
15.79	15.69 15.83	1155	519295	Endrin	0.002222	0.389867	3.473684			J
15.96		291								
16.09		5422								
16.25	16.19 16.33	31193	484260	Endosulfan II	0.064412	11.30029	3.473684			M
16.35		2106								
16.46		15640								
16.50	16.44 16.58	6826	486148	4,4'-DDT	0.014039	2.462974	3.473684			JM
16.75		724								
16.86		2851								
16.96		679								
17.01		1554								
17.11		513								
17.23		13947								
17.41		1522								
17.48	17.47 17.61	3060	208219	Methoxychlor	0.014696	2.578254	17.89474			J
17.60		1274								
17.70		1524								
17.80		4004								
17.94		4011								
18.01		3763								
18.21		471								
18.43		2357								
18.64		452								
18.77		242								
18.84		250								
19.99		163								
20.22		328								
20.32		331								
20.74	20.72 20.86	52891	444411	Decachlorobiphenyl	0.119011	20.87919		99.2	55 - 130	
21.26		677								
21.39		1338								
21.52		6545								
21.99		274								
22.25		190								
22.69		5841								

CompuChem

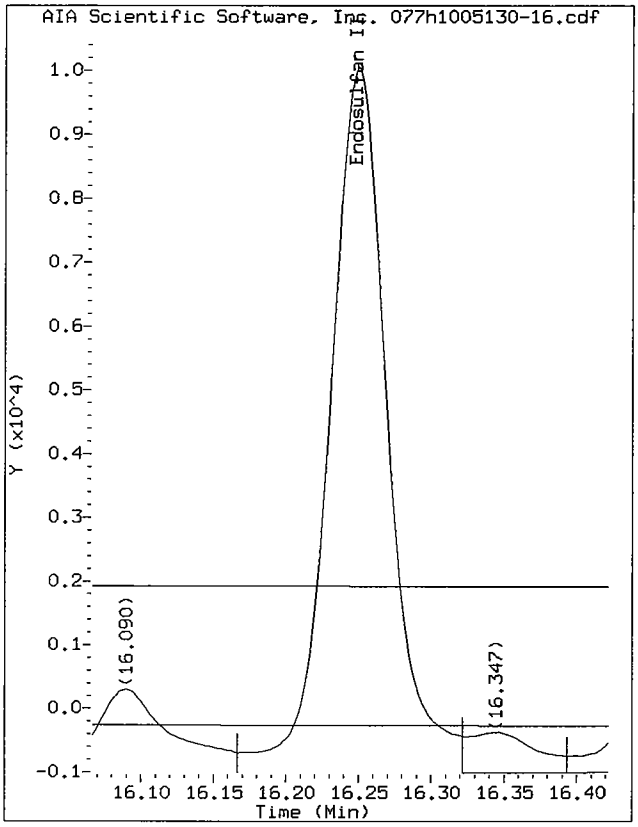
Lab Smp Id : 1005130-16 Client Smp Id : SS25-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:58 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS25-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

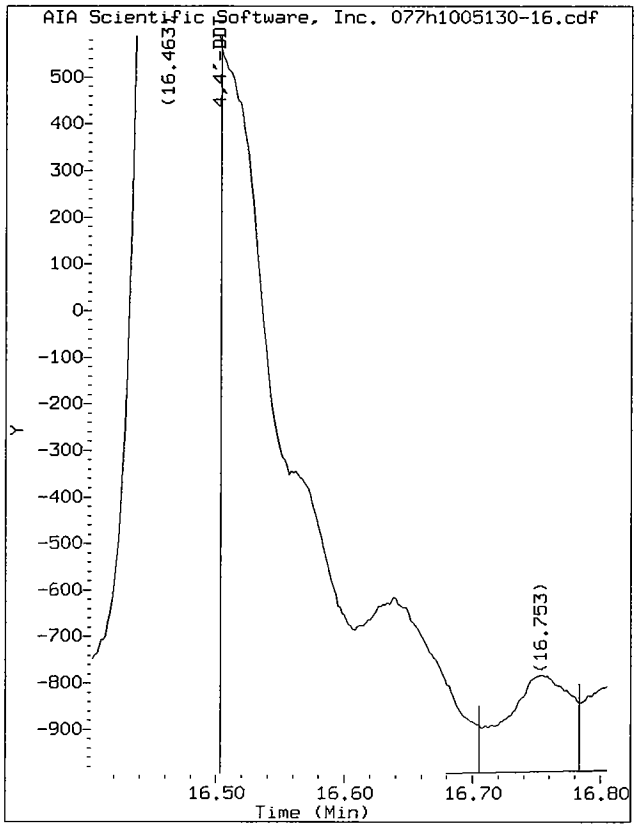
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.38		158								
23.88		905								
24.79		990								
25.04		381								

Manually Integrated Peaks

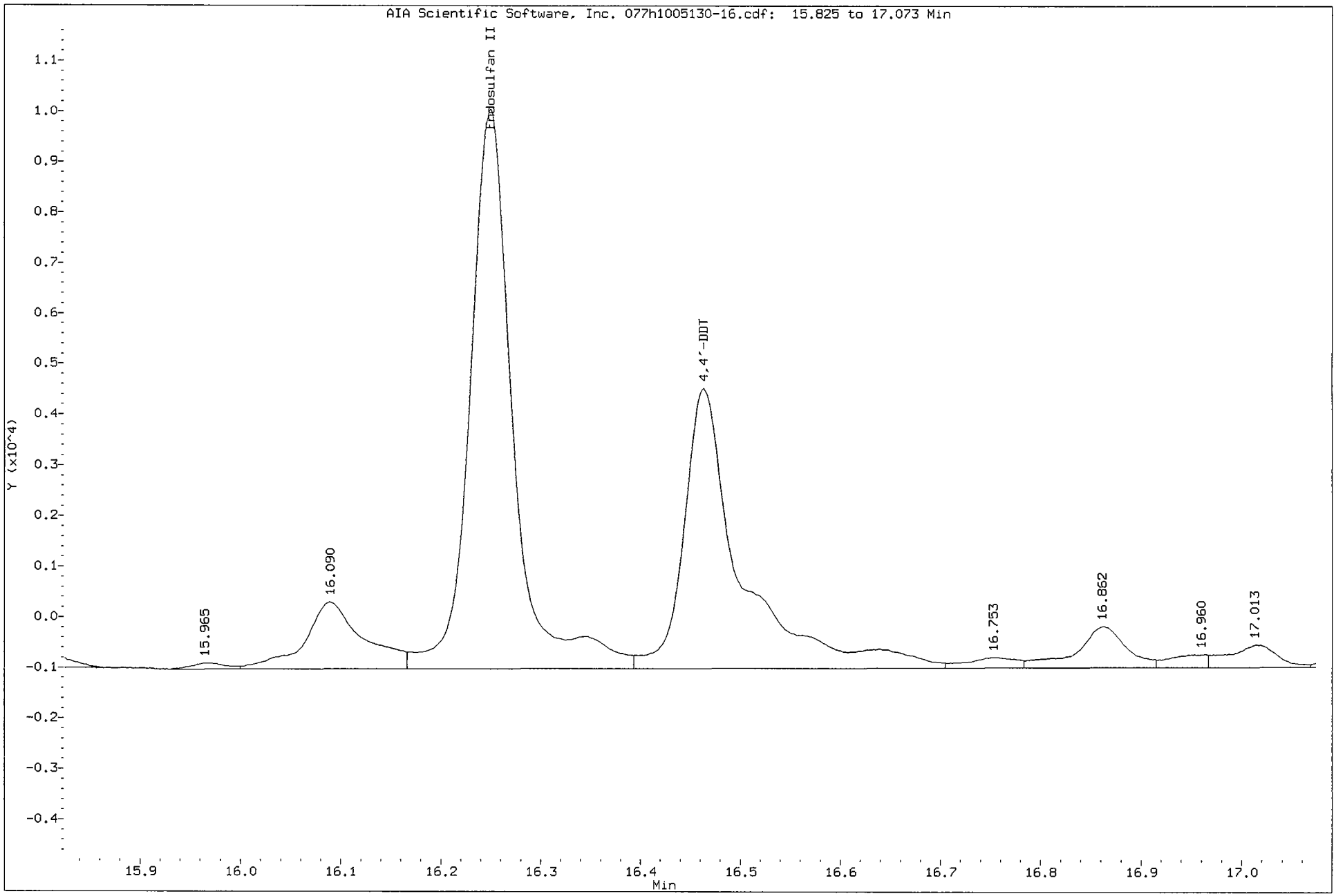


Start: 16.17 Stop: 16.32



Start: 16.50 Stop: 16.70

Data File: /chem/tracegc84.i/h100524e.b/077h1005130-16.d/077h1005130-16.cdf
Injection Date: 26-MAY-2010 10:58
Instrument: tracegc84.i
Client Sample ID: SS25-0-1



Data File: /chem/tracegc84.i/h100524e_2C.b/077h1005130-16.d

Date : 26-MAY-2010 10:58

Client ID: SS25-0-1

Instrument: tracegc84.i

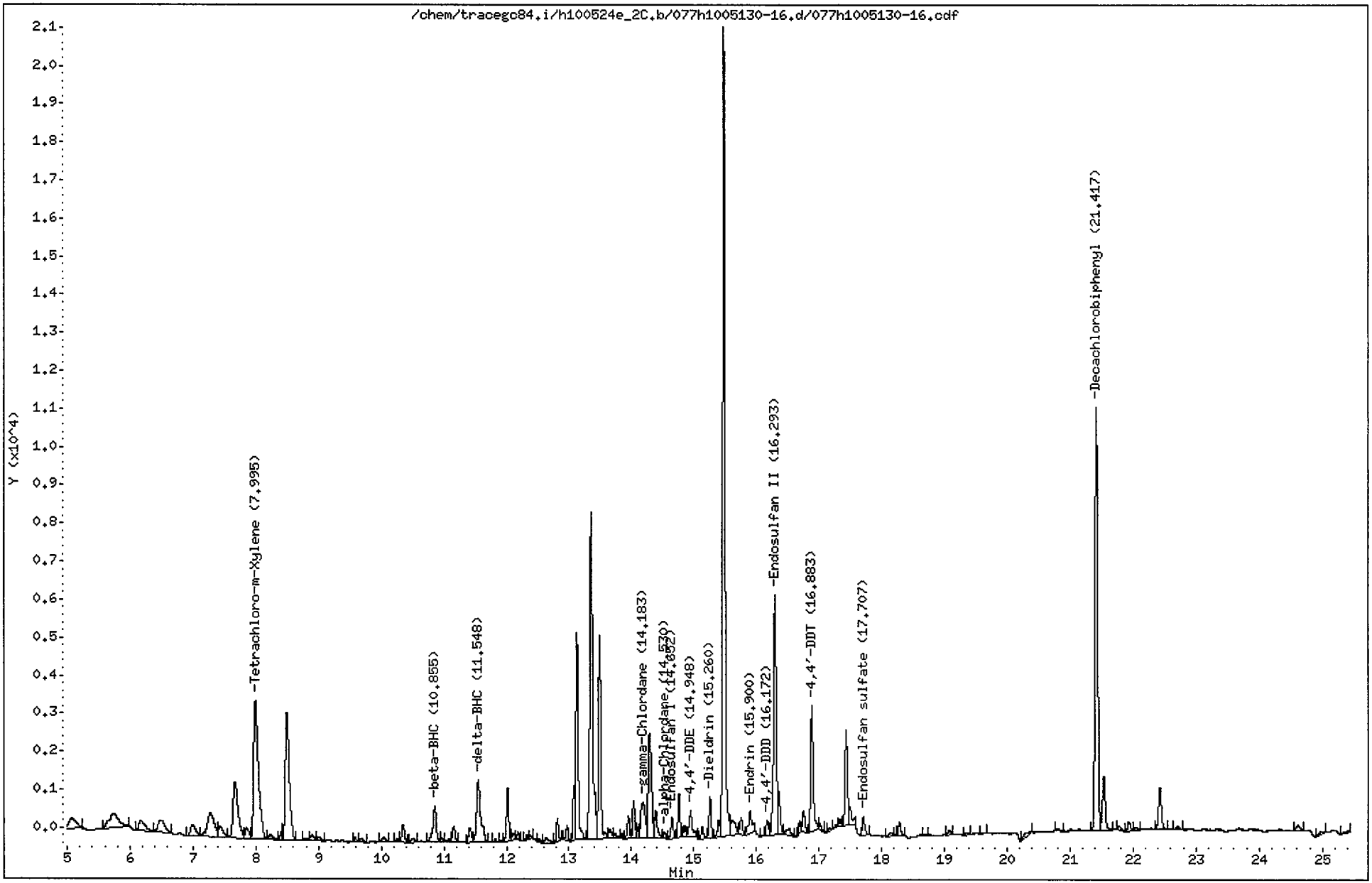
Sample Info: 1005130-16

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-16 Client Smp Id : SS25-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:58 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS25-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.72		39753								
1.93		99863								
2.00		26910								
2.02		212843								
3.22		29597								
4.22		289								
4.38		8727								
5.08		2135								
5.74		3893								
6.18		1935								
6.49		2424								
6.99		1702								
7.28		5102								
7.43		1498								
7.67		8154								
7.86		1174								
8.00	7.97 8.11	19210	345165	Tetrachloro-m-Xylene	0.055655	9.763955		92.8	70 - 125	
8.23		503								
8.41		352								
8.49		14580								
8.81		150								
8.90		554								
9.01		325								
9.58		270								
9.67		426								
10.04		424								
10.26		255								
10.35		1390								
10.52		315								
10.86	10.79 10.93	3639	203322	beta-BHC	0.017893	3.139080	0.895789			
10.97		320								
11.05		276								
11.16		1232								
11.41		1323								
11.55	11.49 11.63	7506	416372	delta-BHC	0.018027	3.162654	1.789474			
11.82		190								
12.02		3479								

6/4/10

CompuChem

Lab Smp Id : 1005130-16 Client Smp Id : SS25-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:58 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS25-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.11		535								
12.19		441								
12.32		222								
12.38		152								
12.53		187								
12.63		602								
12.81		1253								
12.97		1026								
13.08		2563								
13.13		14470								
13.36		27039								
13.49		13460								
13.65		851								
13.73		401								
13.85		272								
13.95		1428								
14.04		2316								
14.09		585								
14.18	14.13 14.27	4629	394802	gamma-Chlordane	0.011722	2.056547	1.789474			
14.29		10189								
14.39		2092								
14.53	14.45 14.59	375	348692	alpha-Chlordane	0.001073	0.188172	1.789474			J
14.65	14.57 14.71	1442	375212	Endosulfan I	0.003843	0.674238	1.789474			J
14.76		2616								
14.86		722								
14.95	14.84 14.98	2470	352110	4,4'-DDE	0.007012	1.230178	3.473684			J
15.13		852								
15.26	15.17 15.31	2570	348230	Dieldrin	0.007377	1.294265	3.473684			J
15.40		1159								
15.48		54306								
15.61		1947								
15.76		1320								
15.90	15.83 15.97	2357	319049	Endrin	0.007384	1.295518	3.473684			J
16.08		109								
16.17	16.09 16.23	1136	248368	4,4'-DDD	0.004570	0.801727	3.473684			J
16.29	16.29 16.43	18402	304391	Endosulfan II	0.060455	10.60616	3.473684			MV
16.34		2878								

6/4/10

CompuChem

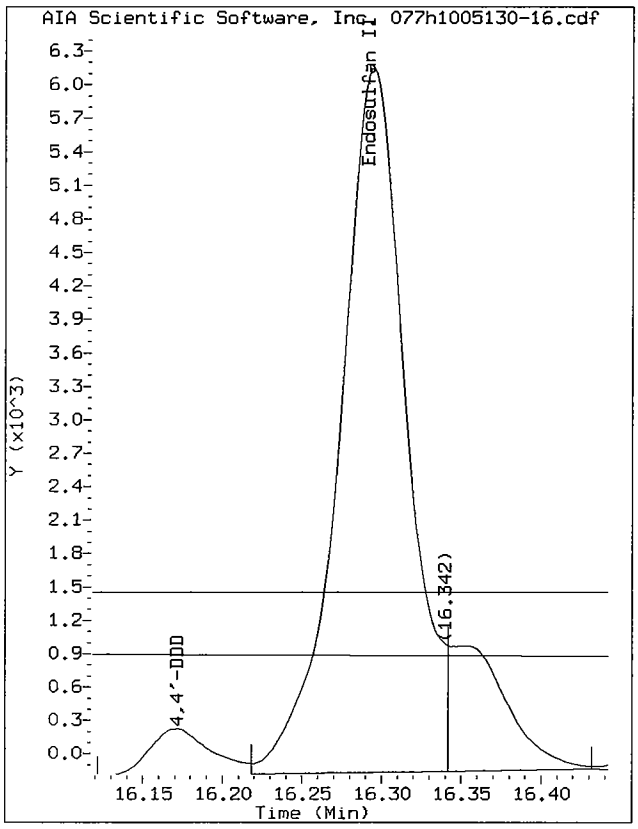
Lab Smp Id : 1005130-16 Client Smp Id : SS25-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 10:58 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS25-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

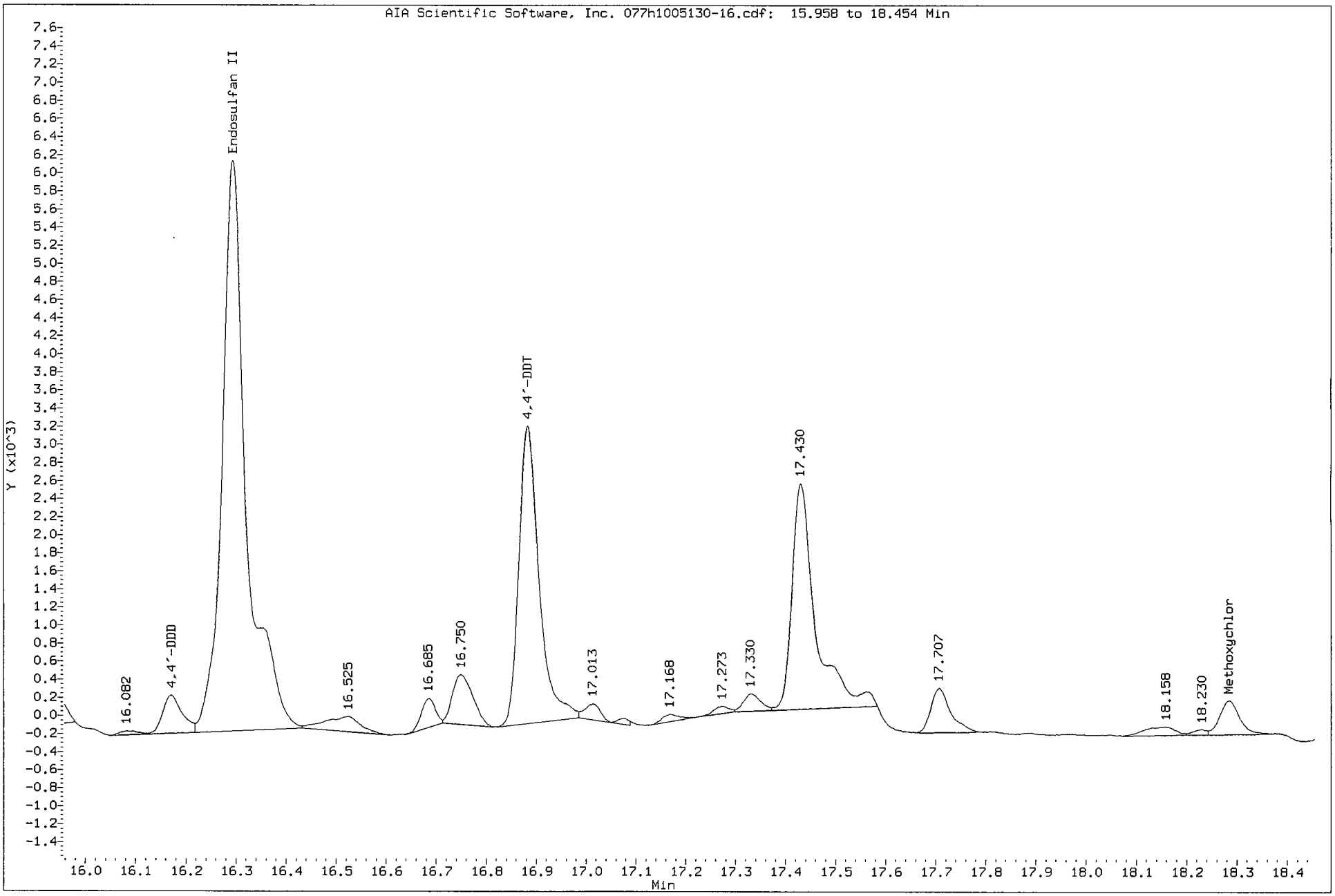
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.52		822								
16.68		621								
16.75		1563								
16.88	16.75 16.89	9275	294834	4,4'-DDT	0.031455	5.518424	3.473684			
17.01		478								
17.17		194								
17.27		170								
17.33		451								
17.43		6738								
17.48		1523								
17.71	17.61 17.75	1332	267371	Endosulfan sulfate	0.004982	0.874007	3.473684			J
18.16		414								
18.23		111								
18.28		1020								
18.68		92								
19.08		371								
19.36		155								
19.61		93								
20.37		498								
20.80		150								
21.42	21.41 21.55	32777	301734	Decachlorobiphenyl	0.108629	19.05770		90.5	55 - 130	
21.54		4403								
21.78		348								
21.93		681								
22.05		165								
22.43		3549								
22.70		258								
24.61		561								
25.05		312								
25.41		187								

Manually Integrated Peaks



Start: 16.22 Stop: 16.34

Data File: /chem/tracegc84.i/h100524e_2C.b/077h1005130-16.d/077h1005130-16.cdf
Injection Date: 26-MAY-2010 10:58
Instrument: tracegc84.i
Client Sample ID: SS25-0-1



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS47-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	1.6	J
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	17	
50-29-3	4,4'-DDT	1.8	J
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	0.24	JP
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

Data File: /chem/tracegc84.i/h100524e.b/070h1005130-09.d

Date : 26-MAY-2010 07:35

Client ID: SS47-0-1

Instrument: tracegc84.i

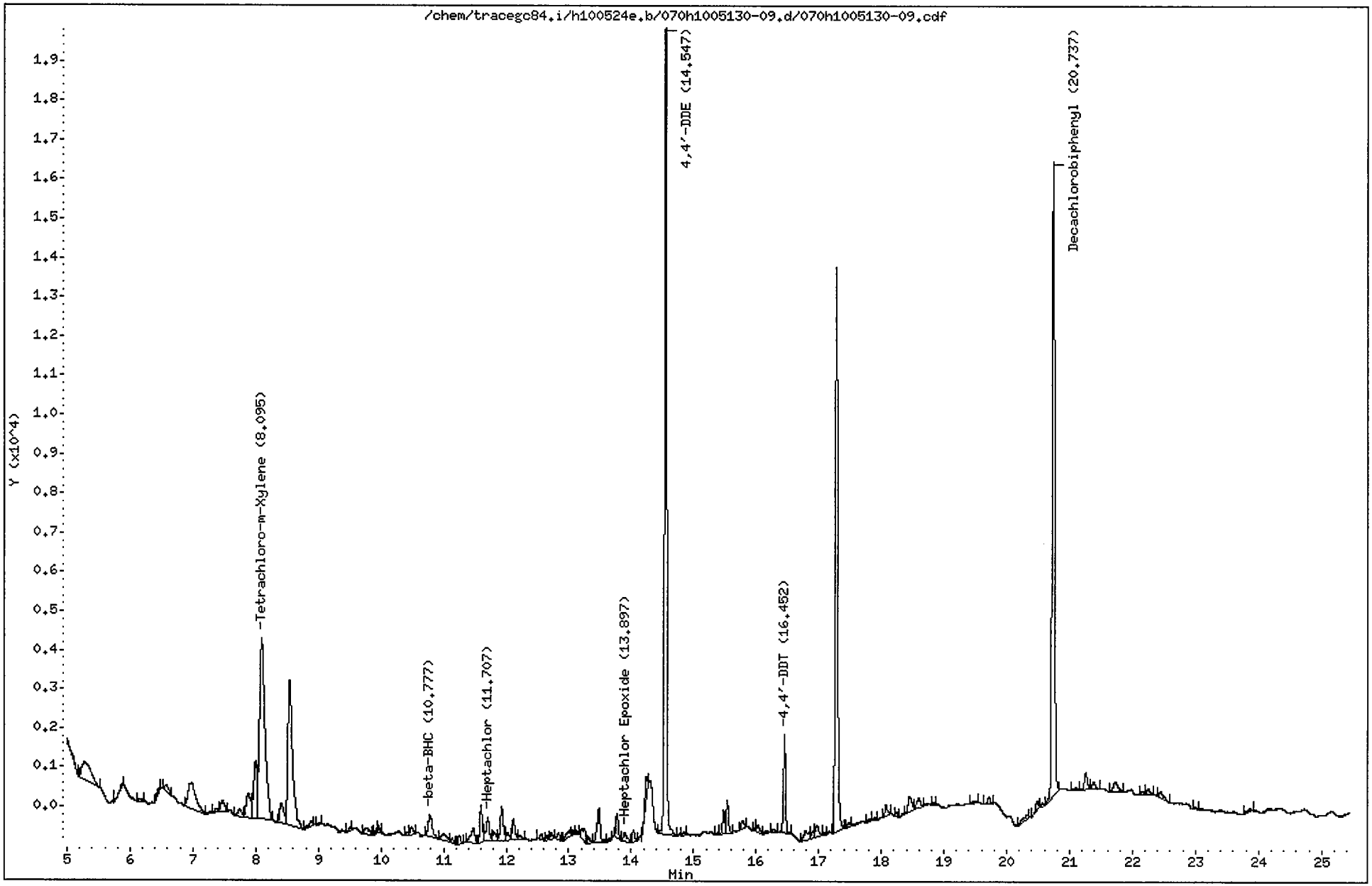
Sample Info: 1005130-09

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-09 Client Smp Id : SS47-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:35 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS47-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.46		50675638								
2.52		135793								
3.06		464								
3.14		347								
3.21		207								
3.36		97134								
3.76		2757								
3.82		4627								
4.21		20847								
4.75		41937								
5.28		4849								
5.87		389								
6.15		264								
6.46		321								
6.57		762								
6.98		5584								
7.37		341								
7.47		1289								
7.75		846								
7.88		3184								
8.00		5709								
8.10	8.08 8.22	27744	539702	Tetrachloro-m-Xylene	0.051404	10.70922		85.7	70 - 125	
8.40		2336								
8.54		19344								
8.88		528								
9.01		150								
9.51		178								
9.76		925								
9.92		206								
9.95		327								
10.42		189								
10.49		612								
10.78	10.67 10.81	2733	318610	beta-BHC	0.008578	1.787059	1.063750			
10.99		1026								
11.14		268								
11.25		602								
11.47		1690								

CompuChem

Lab Smp Id : 1005130-09 Client Smp Id : SS47-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS47-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.60		2518								
11.71	11.63 11.77	2229	750482	Heptachlor	0.002970	0.618769	2.125000			J
11.80		939								
11.93		2891								
12.02		602								
12.11		1714								
12.22		342								
12.56		424								
12.65		239								
12.72		432								
12.83		545								
13.00		828								
13.07		209								
13.13		168								
13.21		1351								
13.32		390								
13.48		3009								
13.64		149								
13.77		1518								
13.90	13.77 13.91	741	642292	Heptachlor Epoxide	0.001154	0.240350	2.125000			J
14.04		729								
14.24		1773								
14.55	14.53 14.67	50303	569541	4,4'-DDE	0.088322	18.40041	4.125000			
14.85		180								
15.39		125								
15.48		1451								
15.54		2083								
15.79		693								
15.99		155								
16.03		585								
16.16		265								
16.28		271								
16.45	16.44 16.58	5918	486148	4,4'-DDT	0.012173	2.536096	4.125000			J
16.80		1273								
16.92		520								
16.97		1148								
17.09		148								

CompuChem

Lab Smp Id : 1005130-09 Client Smp Id : SS47-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS47-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.28		37338								
17.48		269								
17.81		153								
17.89		245								
18.07		738								
18.24		287								
18.45		1687								
18.59		1043								
18.84		165								
19.46		211								
19.71		506								
20.32		646								
20.49		700								
20.57		217								
20.74	20.72 20.86	44650	444411	Decachlorobiphenyl	0.100468	20.93078		83.7	55 - 130	
21.10		272								
21.25		1483								
21.38		719								
21.73		1370								
22.16		278								
22.24		464								
22.44		808								
22.98		200								
23.87		271								

Data File: /chem/tracegc84.i/h100524e_2C.b/070h1005130-09.d

Date : 26-MAY-2010 07:35

Client ID: SS47-0-1

Sample Info: 1005130-09

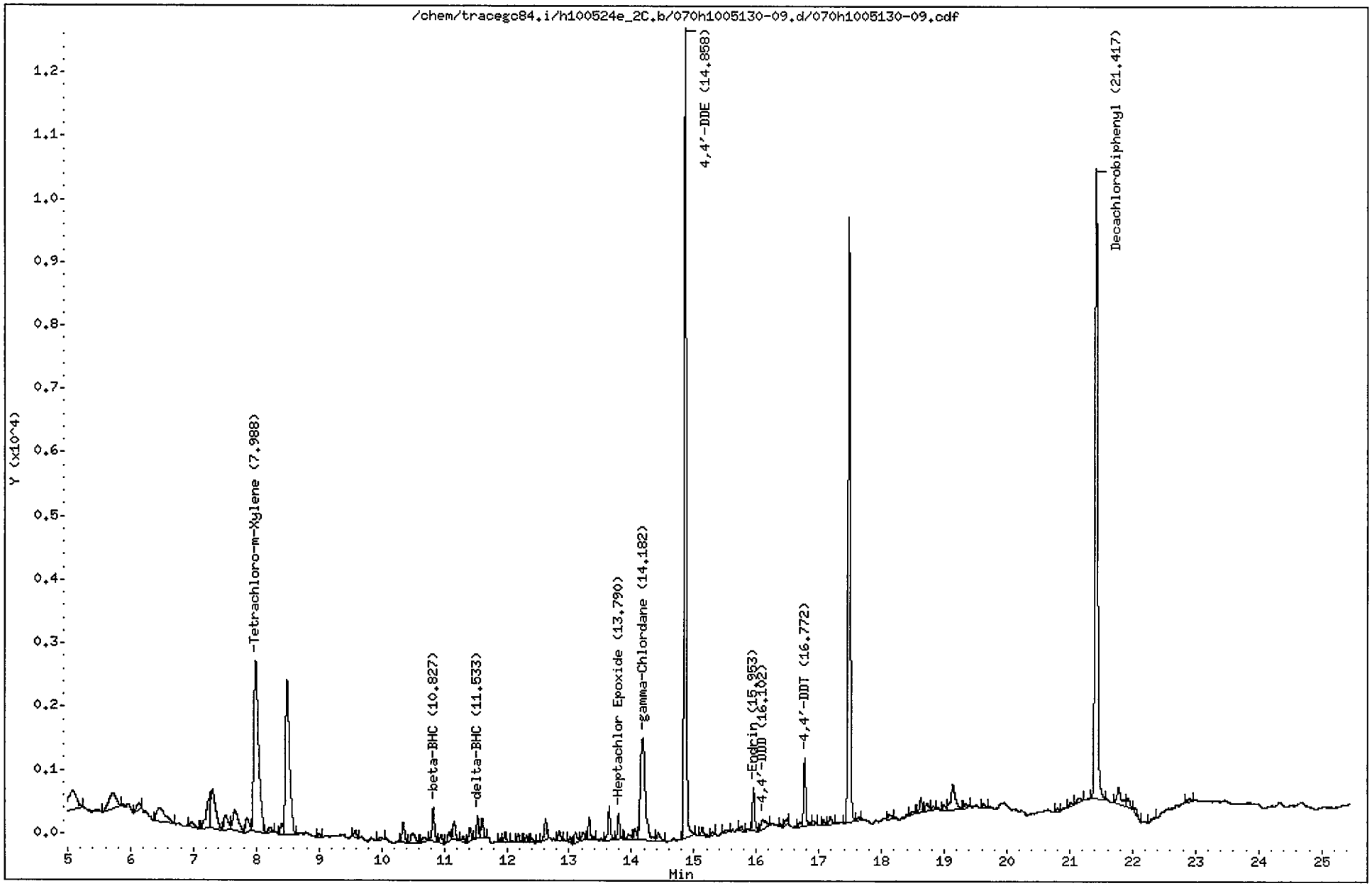
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-09 Client Smp Id : SS47-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:35 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS47-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.53			38766665								
2.76			14549								
2.82			57955								
3.15			192109								
3.85			68157								
4.35			36824								
5.08			2448								
5.71			2010								
6.10			373								
6.47			2080								
6.96			340								
7.25			1979								
7.30			3516								
7.50			1116								
7.67			2004								
7.85			834								
7.99	7.97	8.11	14407	345165	Tetrachloro-m-Xylene	0.041737	8.695117		69.6*	70 - 125	R
8.22			394								
8.41			446								
8.49			11097								
8.99			171								
9.58			287								
9.97			144								
10.35			890								
10.49			758								
10.69			290								
10.83	10.79	10.93	1520	203322	beta-BHC	0.007471	1.556435	1.063750			
10.95			371								
11.08			414								
11.16			859								
11.31			311								
11.41			568								
11.53	11.49	11.63	844	416372	delta-BHC	0.002027	0.422298	2.125000			J
11.61			841								
11.89			152								
11.98			381								
12.08			99								

KCH 6/4/10

CompuChem

Lab Smp Id : 1005130-09 Client Smp Id : SS47-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS47-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.19		294								
12.32		242								
12.41		171								
12.62		913								
12.84		387								
13.02		209								
13.10		468								
13.22		414								
13.32		937								
13.64		1538								
13.79	13.70 13.84	927	397168	Heptachlor Epoxide	0.002334	0.486256	2.125000			J
13.95		347								
14.05		507								
14.18	14.13 14.27	9039	394802	gamma-Chlordane	0.022895	4.769790	2.125000			
14.43		472								
14.86	14.84 14.98	29333	352110	4,4'-DDE	0.083306	17.35549	4.125000			
15.13		428								
15.29		115								
15.51		242								
15.76		239								
15.95	15.83 15.97	1688	319049	Endrin	0.005288	1.101582	4.125000			J
16.10	16.09 16.23	793	248368	4,4'-DDD	0.003189	0.664338	4.125000			J
16.38		92								
16.46		312								
16.69		204								
16.77	16.75 16.89	2534	294834	4,4'-DDT	0.008595	1.790557	4.125000			J
16.91		134								
17.07		221								
17.19		355								
17.48		23162								
17.63		142								
18.12		294								
18.49		158								
18.63		531								
18.72		406								
18.82		107								
18.99		261								

CompuChem

Lab Smp Id : 1005130-09 Client Smp Id : SS47-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 07:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS47-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.14		2010								
19.34		264								
19.62		217								
20.81		146								
21.02		219								
21.16		285								
21.42	21.41 21.55	29267	301734	Decachlorobiphenyl	0.096996	20.20752		80.8	55 - 130	
21.77		1221								
21.93		465								
22.04		321								
22.34		124								
22.92		194								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS48-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	3.5	P
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	2.1	J
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

Data File: /chem/tracegc84.i/h100524e.b/074h1005130-13.d

Page 1

Date : 26-MAY-2010 09:31

Client ID: SS48-0-1

Instrument: tracegc84.i

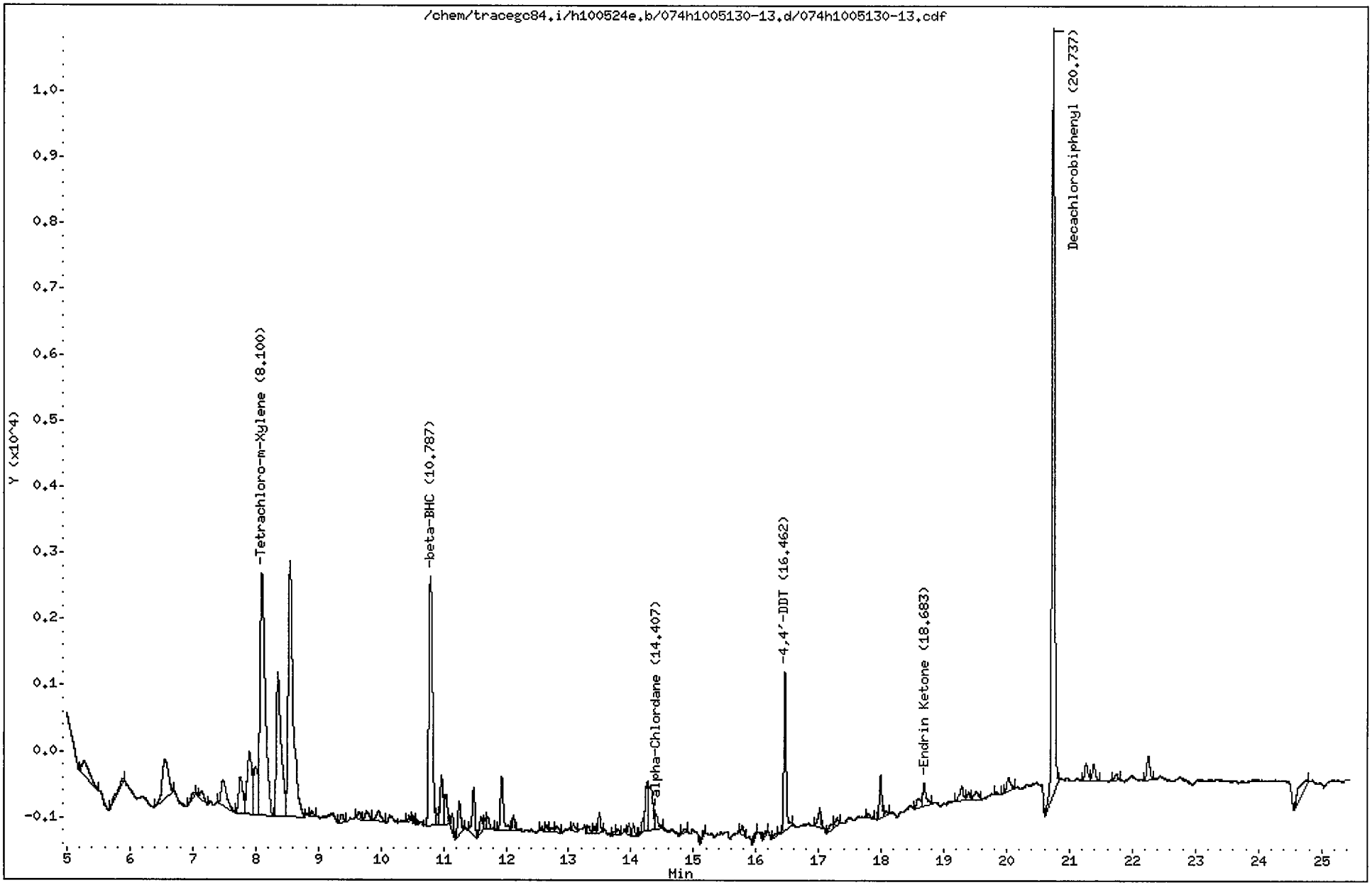
Sample Info: 1005130-13

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-13 Client Smp Id : SS48-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:31 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS48-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49		38669								
1.64		9597								
1.72		22370								
1.79		29165								
1.87		10156								
2.10		144274								
2.17		338695								
3.14		3361								
3.21		6295								
3.38		19900								
3.83		21231								
4.43		131								
4.78		10089								
5.27		1929								
5.88		598								
6.56		4080								
7.01		320								
7.14		569								
7.48		2420								
7.76		2556								
7.90		5174								
8.00		2941								
8.10	8.08 8.22	21166	539702	Tetrachloro-m-Xylene	0.039216	7.600010		65.4*	70 - 125	R
8.36		11798								
8.54		21091								
8.90		205								
9.37		410								
9.64		325								
9.77		644								
9.96		885								
10.45		158								
10.53		129								
10.79	10.67 10.81	15385	318610	beta-BHC	0.048288	9.358115	0.989535			
10.91		432								
10.97		2389								
11.04		1487								
11.14		647								

CompuChem

Lab Smp Id : 1005130-13 Client Smp Id : SS48-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:31 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS48-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.25		1726								
11.48		2233								
11.61		709								
11.66		461								
11.71		591								
11.93		2672								
12.11		577								
12.57		176								
12.65		242								
12.73		227								
12.81		388								
13.07		301								
13.32		286								
13.42		215								
13.49		714								
13.72		133								
13.79		299								
13.97		335								
14.04		434								
14.19		430								
14.25		2463								
14.31		2863								
14.41	14.35 14.49	826	564490	alpha-Chlordane	0.001461	0.283236	1.976744			J
14.86		163								
15.16		279								
15.79		423								
16.01		207								
16.15		186								
16.30		163								
16.46	16.44 16.58	6129	486148	4,4'-DDT	0.012607	2.443272	3.837209			J
17.02		894								
17.20		361								
17.29		354								
17.80		237								
17.99		1682								
18.07		188								
18.60		618								

CompuChem

Lab Smp Id : 1005130-13 Client Smp Id : SS48-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:31 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS48-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.68	18.63 18.77	1228	478826	Endrin Ketone	0.002563	0.496612	3.837209			J
19.28		872								
19.39		361								
19.51		666								
19.83		139								
20.03		800								
20.74	20.72 20.86	33374	444411	Decachlorobiphenyl	0.075097	14.55370		62.6	55 - 130	
21.26		906								
21.39		801								
21.74		313								
22.25		1188								
24.76		1523								

Data File: /chem/tracegc84.i/h100524e_2C.b/074h1005130-13.d

Date : 26-MAY-2010 09:31

Client ID: SS48-0-1

Sample Info: 1005130-13

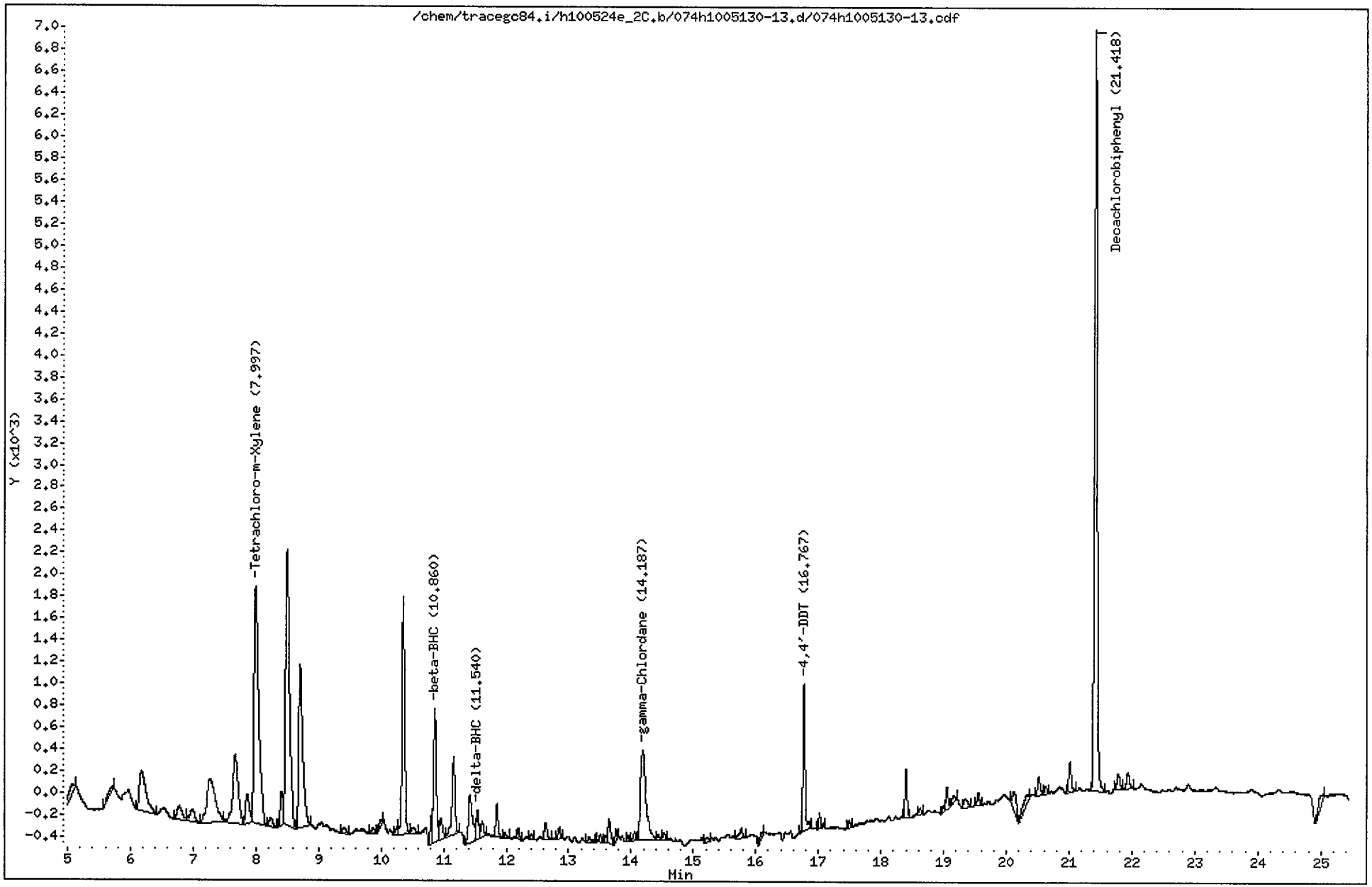
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-13 Client Smp Id : SS48-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:31 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS48-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.72		48411								
1.86		50303								
1.93		49032								
1.99		202902								
2.89		4234								
3.20		2706								
3.50		118								
4.39		13421								
5.08		388								
5.72		325								
6.18		2840								
6.78		666								
6.98		622								
7.26		3768								
7.67		3726								
7.86		1099								
8.00	7.97 8.11	11298	345165	Tetrachloro-m-Xylene	0.032729	6.342883		54.5*	70 - 125	R
8.23		311								
8.41		886								
8.50		11154								
8.71		6690								
9.41		254								
9.87		141								
9.99		131								
10.27		210								
10.35		6416								
10.52		253								
10.80		486								
10.86	10.79 10.93	3693	203322	beta-BHC	0.018163	3.520012	0.989535			
10.96		670								
11.16		2457								
11.42		1941								
11.54	11.49 11.63	748	416372	delta-BHC	0.001796	0.348153	1.976744			J
11.62		461								
11.85		771								
11.98		140								
12.19		224								

6/4/10

CompuChem

Lab Smp Id : 1005130-13 Client Smp Id : SS48-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 09:31 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS48-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.40		104								
12.63		452								
12.85		266								
13.32		162								
13.51		167								
13.60		131								
13.65		725								
13.76		224								
13.96		112								
14.06		212								
14.19	14.13 14.27	5021	394802	gamma-Chlordane	0.012715	2.464190	1.976744			
14.44		136								
14.53		193								
15.23		150								
15.77		306								
16.09		123								
16.77	16.75 16.89	3209	294834	4,4'-DDT	0.010881	2.108664	3.837209			J
17.02		354								
17.49		172								
18.40		1011								
18.63		140								
19.00		109								
19.05		489								
19.16		211								
19.34		329								
19.55		300								
20.12		773								
20.32		542								
20.51		463								
20.63		195								
21.01		809								
21.42	21.41 21.55	20723	301734	Decachlorobiphenyl	0.068680	13.31003		57.2	55 - 130	
21.78		455								
21.94		473								
25.03		473								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS49-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 8 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.5	JP
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	3.6	U
50-29-3	4,4'-DDT	3.6	U
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	0.70	J
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	90	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

Data File: /chem/tracegc84.i/h100524d.b/062h1005130-05.d

Date : 26-MAY-2010 03:44

Client ID: SS49-0-1

Instrument: tracegc84.i

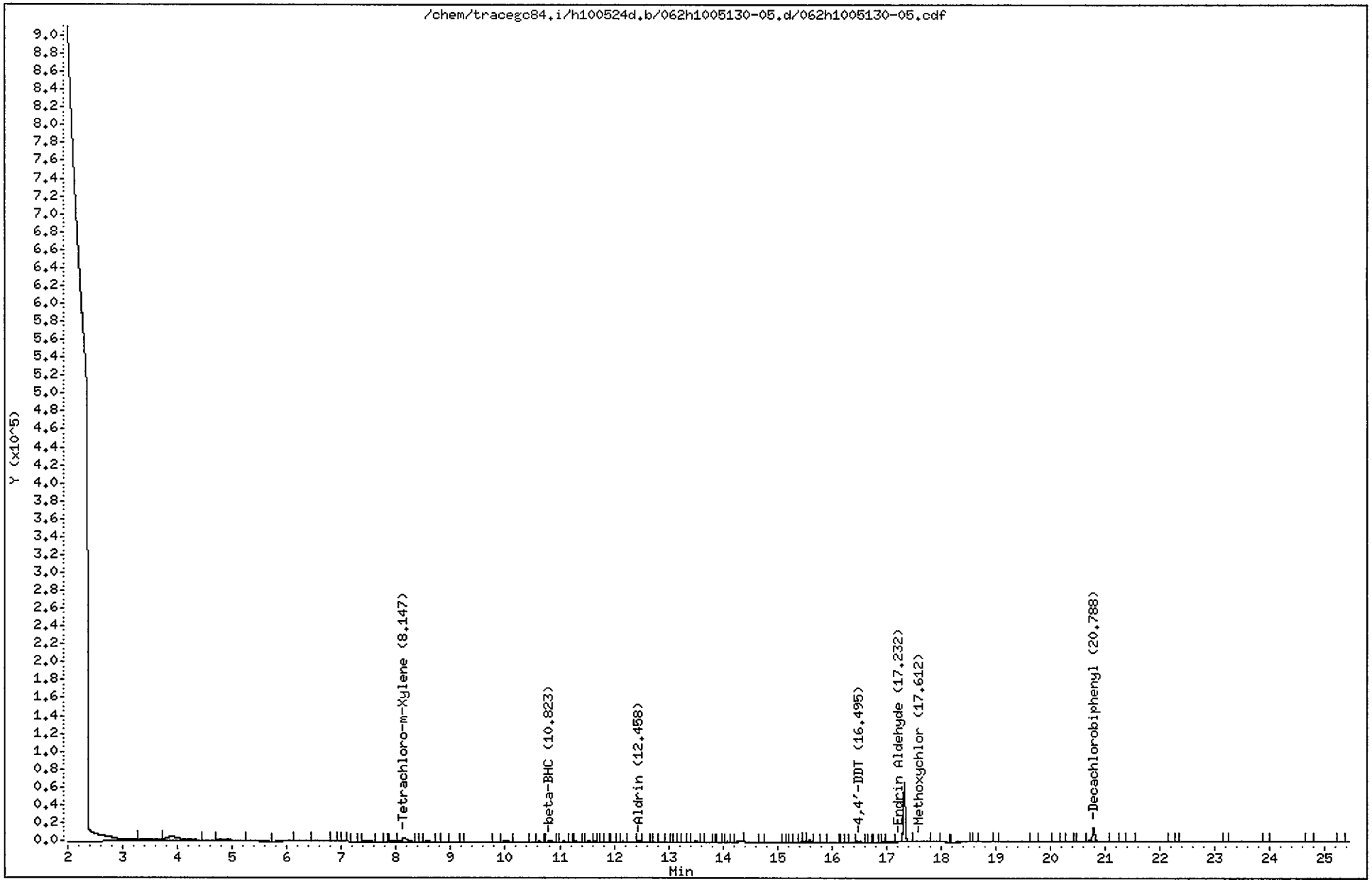
Sample Info: 1005130-05

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-05 Client Smp Id : SS49-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS49-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48			48960138								
3.40			38760								
3.87			69296								
4.81			19982								
5.34			13899								
5.93			4829								
6.61			8430								
6.98			213								
7.04			436								
7.18			231								
7.45			6095								
7.81			142								
7.92			2696								
8.15	8.11	8.25	26883	539702	Tetrachloro-m-Xylene	0.049811	9.023691		83.0	70 - 125	
8.46			330								
8.58			4653								
8.93			310								
9.21			126								
9.81			507								
10.01			5069								
10.54			522								
10.62			1600								
10.82	10.71	10.85	4908	318610	beta-BHC	0.015401	2.790086	0.925000			
11.07			1718								
11.20			555								
11.30			2520								
11.53			4057								
11.65			1779								
11.71			405								
11.84			358								
11.97			409								
12.08			493								
12.16			1683								
12.28			517								
12.46	12.39	12.53	4208	689285	Aldrin	0.006105	1.105956	1.847826			J
12.61			888								
12.71			331								

6/3/10

CompuChem

Lab Smp Id : 1005130-05 Client Smp Id : SS49-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:44 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS49-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.77		722								
12.88		744								
13.03		300								
13.06		433								
13.12		275								
13.18		344								
13.37		1167								
13.50		4439								
13.63		1023								
13.73		976								
13.83		361								
13.94		263								
14.02		157								
14.08		973								
14.29		2477								
14.70		169								
15.12		184								
15.20		153								
15.23		517								
15.35		518								
15.45		665								
15.49		1551								
15.59		6484								
15.70		598								
15.83		568								
16.11		739								
16.22		194								
16.39		514								
16.50	16.48 16.62	2424	486148	4,4'-DDT	0.004984	0.902914	3.586957			J
16.71		145								
16.80		235								
16.94		322								
17.07		3073								
17.23	17.14 17.28	1418	367936	Endrin Aldehyde	0.003851	0.697683	3.586957			J
17.32		163608								
17.61	17.50 17.64	5847	208219	Methoxychlor	0.028076	5.086263	18.47826			J
18.02		1348								

CompuChem

Lab Smp Id : 1005130-05 Client Smp Id : SS49-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:44 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS49-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.45		2931								
18.67		246								
19.05		165								
19.76		349								
20.13		722								
20.37		289								
20.61		3089								
20.79	20.77 20.91	52999	444411	Decachlorobiphenyl	0.119257	21.60447		99.4	55 - 130	
21.31		652								
21.45		1271								
22.21		330								
22.32		134								
23.24		126								
23.96		236								
24.80		316								
25.35		212								

Data File: /chem/tracegc84.i/h100524d_2C.b/062h1005130-05.d

Date : 26-MAY-2010 03:44

Client ID: SS49-0-1

Instrument: tracegc84.i

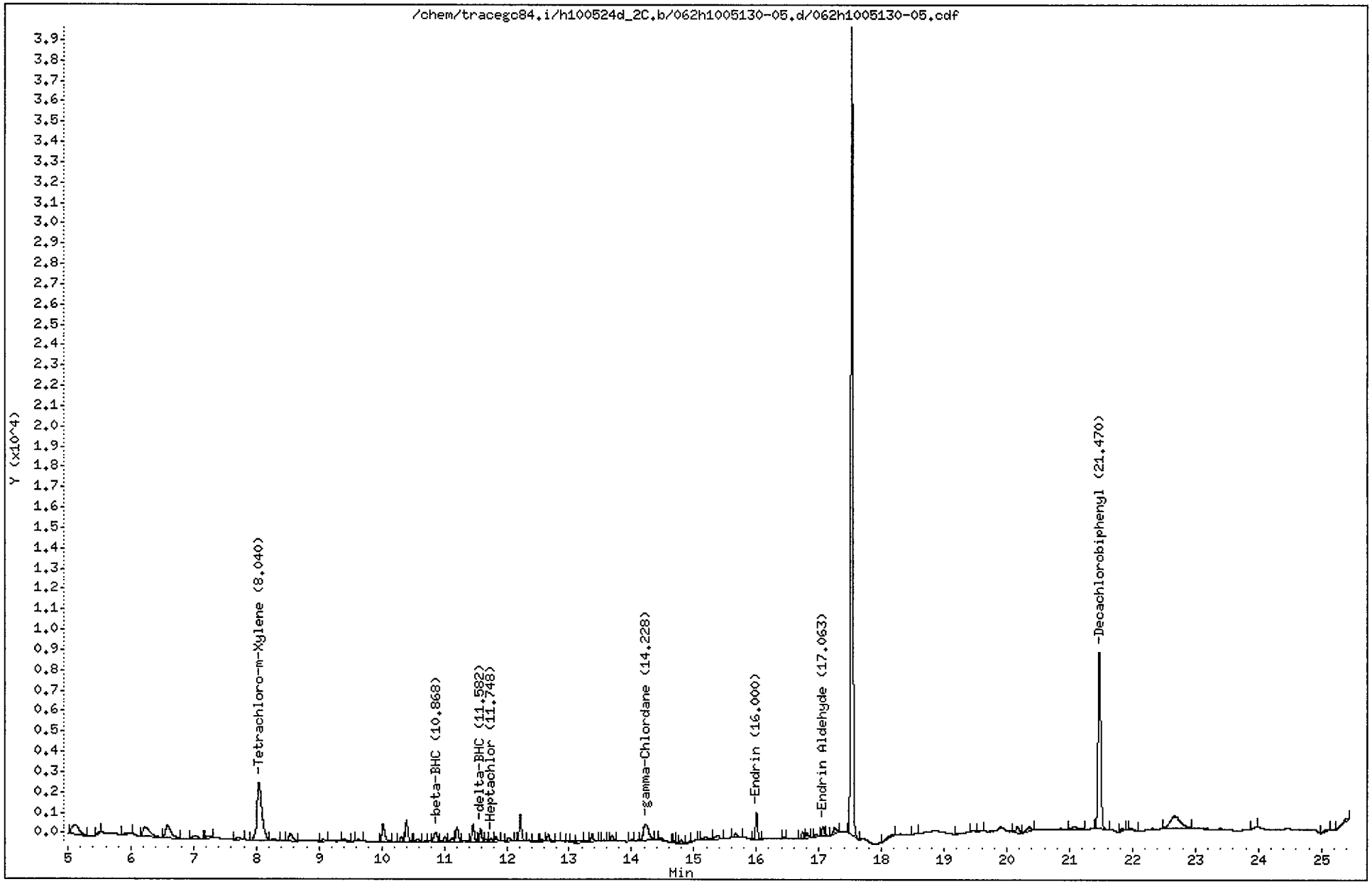
Sample Info: 1005130-05

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-05 Client Smp Id : SS49-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS49-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.56		36600047								
3.26		55436								
4.40		13137								
5.11		3444								
5.51		182								
5.93		297								
6.22		4057								
6.58		3922								
7.03		858								
7.23		404								
7.71		547								
8.04	8.01 8.15	15729	345165	Tetrachloro-m-Xylene	0.045570	8.255346		75.9	70 - 125	
8.28		375								
8.54		1674								
9.06		348								
9.40		293								
9.63		198								
10.02		2905								
10.31		702								
10.39		3063								
10.56		592								
10.69		110								
10.87	10.83 10.97	1659	203322	beta-BHC	0.008155	1.477270	0.925000			
11.01		654								
11.12		623								
11.21		1880								
11.46		2300								
11.58	11.53 11.67	1619	416372	delta-BHC	0.003888	0.704410	1.847826			J
11.66		297								
11.75	11.66 11.80	461	447981	Heptachlor	0.001027	0.186020	1.847826			J
11.83		590								
12.03		626								
12.22		3451								
12.36		180								
12.46		146								
12.57		228								
12.67		987								

6/3/10

CompuChem

Lab Smp Id : 1005130-05 Client Smp Id : SS49-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:44 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS49-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.89		143								
13.06		269								
13.14		609								
13.25		412								
13.37		1099								
13.55		194								
13.69		658								
14.00		109								
14.23	14.17 14.31	4595	394802	gamma-Chlordane	0.011639	2.108466	1.847826			
14.47		471								
14.71		144								
14.79		427								
14.95		161								
15.04		231								
15.19		708								
15.38		952								
15.66		653								
16.00	15.88 16.02	3059	319049	Endrin	0.009588	1.736934	3.586957			J
16.43		122								
16.73		722								
16.81		597								
16.96		326								
17.06	17.06 17.20	1162	239136	Endrin Aldehyde	0.004859	0.880282	3.586957			JM
17.11		212								
17.25		1007								
17.52		93012								
18.17		894								
18.58		106								
19.41		208								
19.57		135								
20.17		1022								
20.36		1180								
21.07		673								
21.47	21.45 21.59	26176	301734	Decachlorobiphenyl	0.086749	15.71534		72.3	55 - 130	
21.84		374								
21.99		396								
22.67		6273								

6/3/10

CompuChem

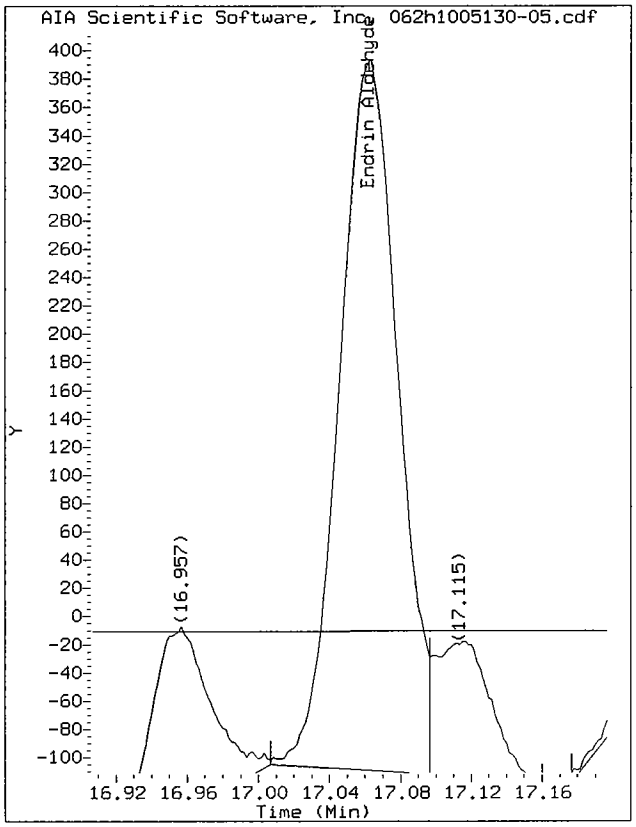
Lab Smp Id : 1005130-05 Client Smp Id : SS49-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 03:44 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS49-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 8(%)

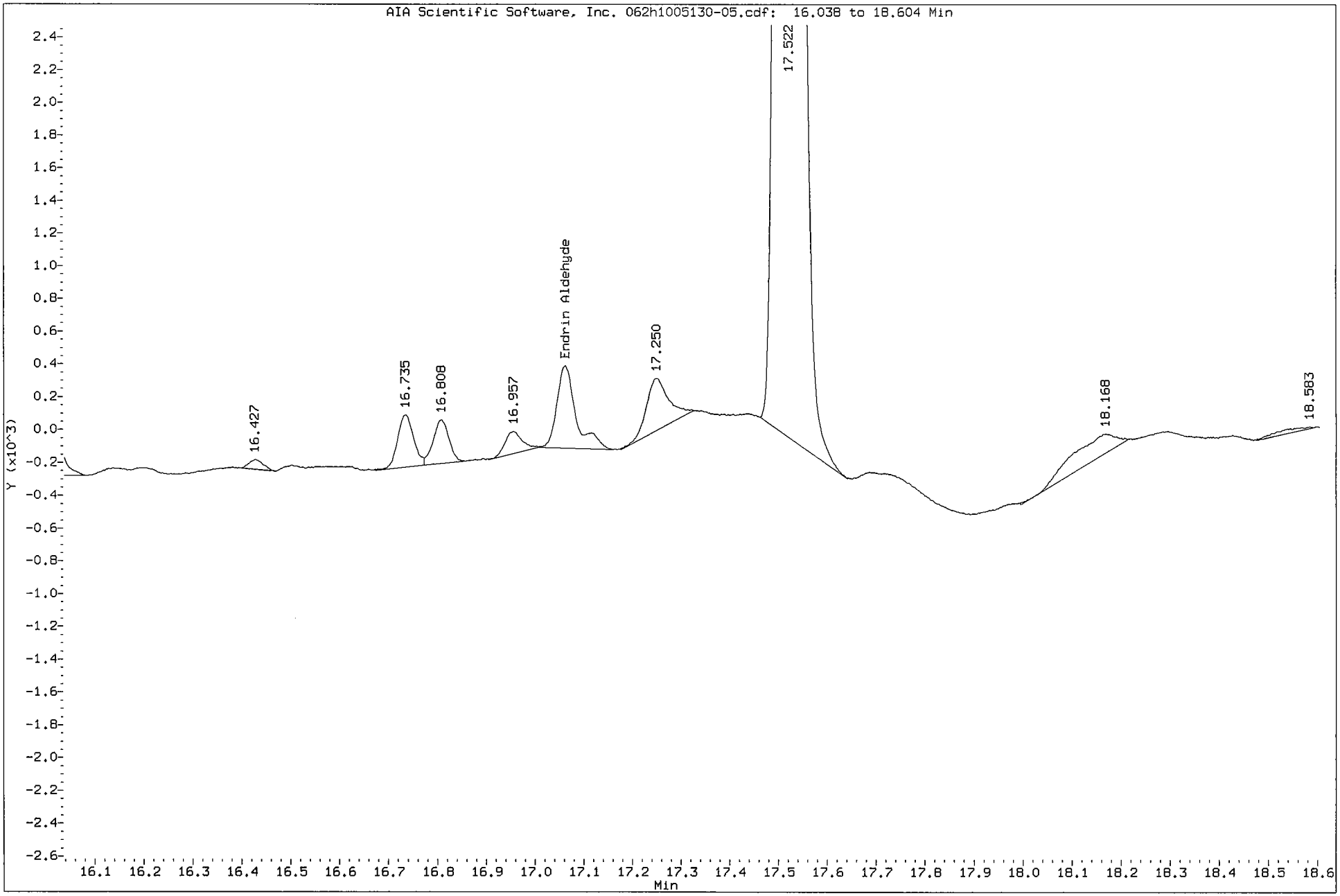
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.98		105								
25.09		360								
25.41		594								

Manually Integrated Peaks



Start: 17.01 Stop: 17.10

Data File: /chem/tracegc84.i/h100524d_2C.b/062h1005130-05.d/062h1005130-05.cdf
Injection Date: 26-MAY-2010 03:44
Instrument: tracegc84.i
Client Sample ID: SS49-0-1



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS50-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 1005130-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.2	JP
319-85-7	beta-BHC	1.3	JP
319-84-6	alpha-BHC	0.96	JP
319-86-8	delta-BHC	0.40	J
58-89-9	gamma-BHC (Lindane)	2.6	U
72-54-8	4,4'-DDD	0.67	JP
72-55-9	4,4'-DDE	5.0	U
50-29-3	4,4'-DDT	5.0	U
60-57-1	Dieldrin	5.0	U
959-98-8	Endosulfan I	2.6	U
33213-65-9	Endosulfan II	5.0	U
1031-07-8	Endosulfan sulfate	2.5	JP
72-20-8	Endrin	0.92	JP
7421-93-4	Endrin Aldehyde	5.0	U
76-44-8	Heptachlor	0.75	JP
1024-57-3	Heptachlor Epoxide	0.65	JP
72-43-5	Methoxychlor	26	U
8001-35-2	Toxaphene	130	U
53494-70-5	Endrin Ketone	0.74	JP
5103-74-2	gamma-Chlordane	0.80	JP
5103-71-9	alpha-Chlordane	1.3	J

Data File: /chem/tracegc84.i/h100524e.b/068h1005130-07.d

Date : 26-MAY-2010 06:37

Client ID: SS50-0-1

Instrument: tracegc84.i

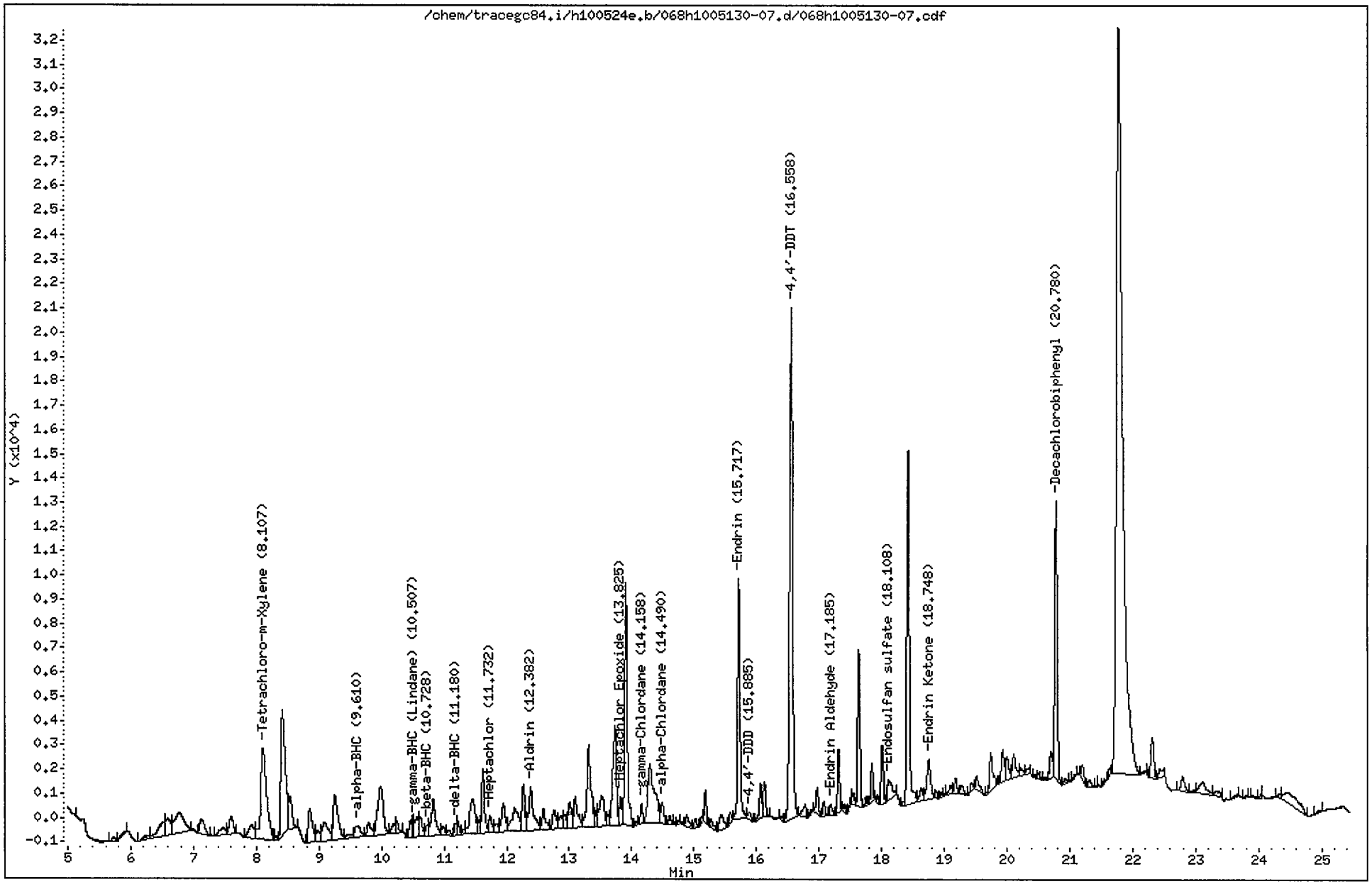
Sample Info: 1005130-07

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-07 Client Smp Id : SS50-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 06:37 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS50-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			39547814								
2.51			31331								
2.58			91548								
3.12			331								
3.35			98745								
4.18			51162								
4.74			25126								
5.73			551								
5.92			621								
6.26			1052								
6.52			4339								
6.60			4149								
6.78			8880								
7.13			3097								
7.48			2038								
7.60			3356								
7.93			3396								
8.11	8.08	8.22	24421	539702	Tetrachloro-m-Xylene	0.045250	11.42666		75.4	70 - 125	
8.31			491								
8.42			25947								
8.54			4927								
8.85			6347								
8.97			1903								
9.08			5463								
9.25			9841								
9.48			1065								
9.61	9.61	9.75	3057	802020	alpha-BHC	0.003810	0.962217	2.575758			J
9.79			2548								
9.98			12595								
10.20			1539								
10.25			1591								
10.46			1988								
10.51	10.43	10.57	1370	758655	gamma-BHC (Lindane)	0.001806	0.456017	2.575758			J
10.56			3360								
10.62			2605								
10.73	10.67	10.81	1672	318610	beta-BHC	0.005248	1.325201	1.289394			
10.83			7478								

6/4/10

CompuChem

Lab Smp Id : 1005130-07 Client Smp Id : SS50-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 06:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS50-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.98		1347								
11.07		763								
11.18	11.11 11.25	1103	704062	delta-BHC	0.001565	0.395253	2.575758			J
11.22		1440								
11.31		441								
11.46		8955								
11.55		1344								
11.62		7692								
11.73	11.63 11.77	2225	750482	Heptachlor	0.002963	0.748340	2.575758			J
11.83		1553								
11.95		5123								
12.13		7042								
12.27		6144								
12.38	12.35 12.49	9203	689285	Aldrin	0.013352	3.371595	2.575758			
12.58		3524								
12.76		3137								
12.87		2187								
12.93		1753								
13.01		3953								
13.09		5338								
13.31		15472								
13.44		1533								
13.51		6846								
13.63		1258								
13.74		16785								
13.82	13.77 13.91	3235	642292	Heptachlor Epoxide	0.005035	1.271487	2.575758			J
13.91		29124								
14.07		374								
14.16	14.05 14.19	2060	652722	gamma-Chlordane	0.003154	0.796586	2.575758			J
14.29		18156								
14.49	14.35 14.49	3033	564490	alpha-Chlordane	0.005373	1.356816	2.575758			J
14.61		1062								
14.68		337								
14.75		370								
14.81		229								
14.88		1746								
15.02		1025								

CompuChem

Lab Smp Id : 1005130-07 Client Smp Id : SS50-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 06:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS50-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.12		589								
15.18		2935								
15.27		1080								
15.44		3059								
15.58		999								
15.72	15.69 15.83	26764	519295	Endrin	0.051539	13.01493	5.000000			
15.88	15.84 15.98	1113	417785	4,4'-DDD	0.002664	0.672740	5.000000			J
16.07		3787								
16.13		3960								
16.40		365								
16.56	16.44 16.58	69099	486148	4,4'-DDT	0.142136	35.89290	5.000000			
16.78		1983								
16.87		385								
16.97		3019								
17.08		1520								
17.18	17.09 17.23	1310	367936	Endrin Aldehyde	0.003560	0.899091	5.000000			J
17.31		5996								
17.39		608								
17.51		800								
17.55		1020								
17.63		16600								
17.77		671								
17.84		3644								
17.93		593								
18.01		6238								
18.11	18.03 18.17	4136	409905	Endosulfan sulfate	0.010090	2.548016	5.000000			J
18.34		329								
18.42		41614								
18.63		1870								
18.75	18.63 18.77	6842	478826	Endrin Ketone	0.014287	3.607833	5.000000			J
18.87		685								
18.95		430								
19.02		136								
19.10		1132								
19.18		1657								
19.28		1336								
19.43		1025								

CompuChem

Lab Smp Id : 1005130-07 Client Smp Id : SS50-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 06:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : SS50-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.52		2151								
19.68		140								
19.74		5377								
19.93		3860								
20.00		3371								
20.11		3720								
20.23		1186								
20.31		1060								
20.45		230								
20.51		671								
20.58		318								
20.70		3241								
20.78	20.72 20.86	30986	444411	Decachlorobiphenyl	0.069721	17.60643		58.1	55 - 130	
20.93		541								
21.09		262								
21.19		1941								
21.31		1031								
21.44		122								
21.55		388								
21.63		868								
21.77		212527								
22.15		422								
22.31		5606								
22.43		1927								
22.79		2497								
22.96		348								
23.11		4093								
23.33		1402								
23.65		277								
23.80		194								
23.90		304								
24.05		379								
24.32		444								
24.46		7473								
24.97		303								

Data File: /chem/tracegc84.i/h100524e_2C.b/068h1005130-07.d

Date : 26-MAY-2010 06:37

Client ID: SS50-0-1

Instrument: tracegc84.i

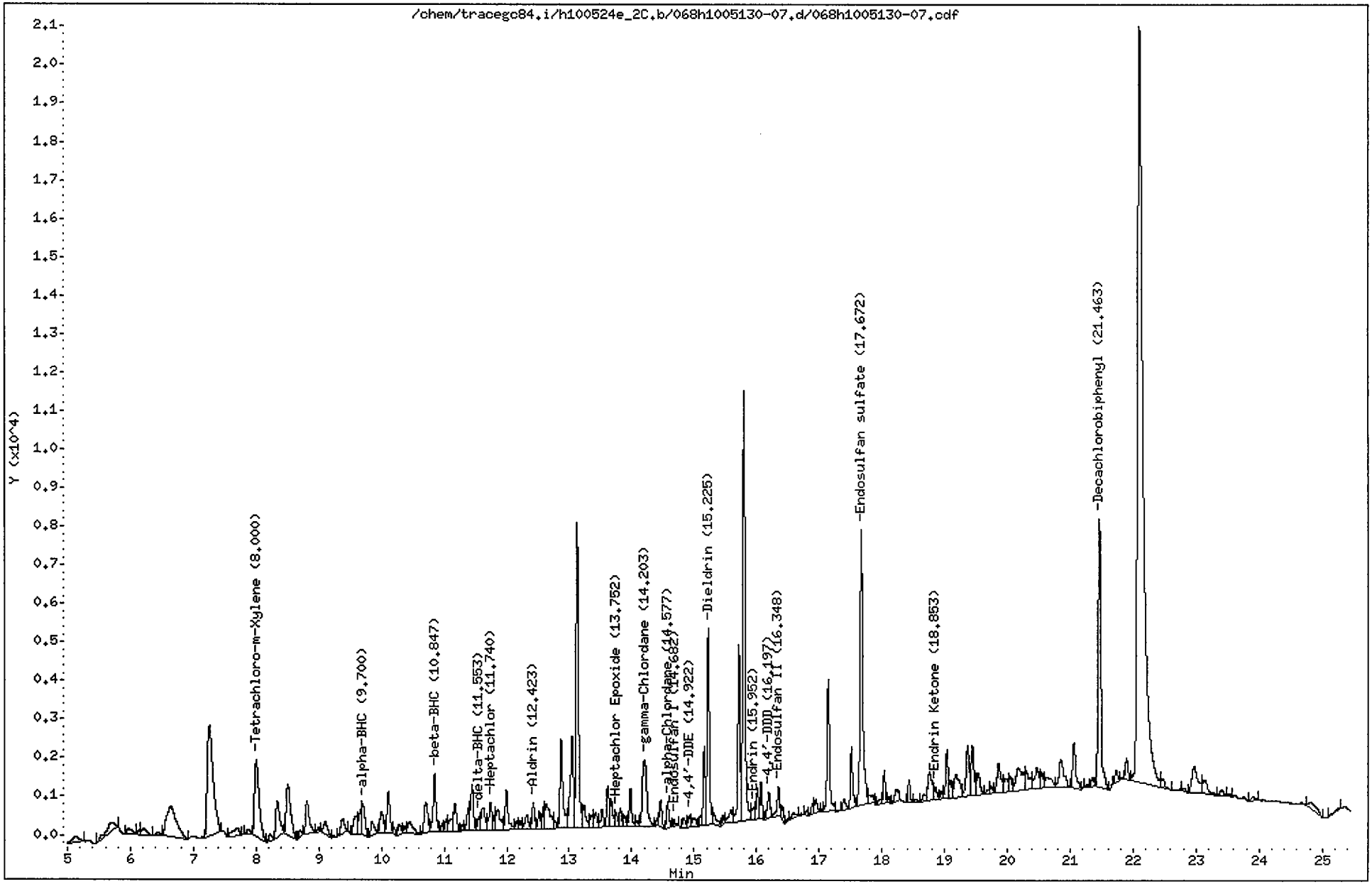
Sample Info: 1005130-07

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005130-07 Client Smp Id : SS50-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 06:37 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.51			27368669								
2.80			101307								
3.04			16639								
3.10			90363								
3.81			57466								
4.38			36643								
5.14			1297								
5.71			2273								
5.98			974								
6.14			336								
6.20			1016								
6.43			419								
6.64			8625								
7.25			18935								
7.70			1334								
7.87			527								
8.00	7.97	8.11	10459	345165	Tetrachloro-m-Xylene	0.030299	7.651150		50.5*	70 - 125	R
8.23			521								
8.33			4161								
8.51			6428								
8.70			535								
8.81			3494								
8.99			321								
9.10			1465								
9.38			1620								
9.60			2108								
9.67			1506								
9.70	9.64	9.78	3181	473680	alpha-BHC	0.006716	1.695834	2.575758			JM2
9.85			1370								
10.00			2229								
10.11			3515								
10.21			297								
10.29			772								
10.37			350								
10.46			1718								
10.70			3325								
10.85	10.79	10.93	4701	203322	beta-BHC	0.023121	5.838612	1.289394			

6/4/10

CompuChem

Lab Smp Id : 1005130-07 Client Smp Id : SS50-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 06:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.96		454								
11.03		824								
11.11		1191								
11.17		2578								
11.29		373								
11.39		1866								
11.45		3506								
11.55	11.49 11.63	997	416372	delta-BHC	0.002392	0.604063	2.575758			J
11.62		2453								
11.74	11.62 11.76	2465	447981	Heptachlor	0.005500	1.388948	2.575758			J
11.81		855								
11.86		2568								
12.00		3445								
12.16		491								
12.21		562								
12.32		1467								
12.42	12.38 12.52	1942	415475	Aldrin	0.004672	1.179738	2.575758			J
12.52		1215								
12.59		1500								
12.63		3590								
12.77		542								
12.87		7604								
13.04		8129								
13.12		21792								
13.23		2008								
13.35		1121								
13.42		1335								
13.53		1347								
13.62		2691								
13.67		2036								
13.75	13.70 13.84	1018	397168	Heptachlor Epoxide	0.002563	0.647260	2.575758			J
13.82		1234								
13.88		671								
13.98		2683								
14.08		396								
14.20	14.13 14.27	8532	394802	gamma-Chlordane	0.021611	5.457274	2.575758			
14.41		407								

CompuChem

Lab Smp Id : 1005130-07 Client Smp Id : SS50-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 06:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.46		1826								
14.58	14.45 14.59	1826	348692	alpha-Chlordane	0.005237	1.322400	2.575758			J
14.68	14.57 14.71	431	375212	Endosulfan I	0.001146	0.289398	2.575758			J
14.84		738								
14.92	14.84 14.98	897	352110	4,4'-DDE	0.002545	0.642591	5.000000			J
14.98		944								
15.10		604								
15.16		4725								
15.22	15.17 15.31	12764	348230	Dieldrin	0.036654	9.256044	5.000000			
15.32		1134								
15.46		474								
15.59		1428								
15.71		11314								
15.80		28729								
15.95	15.83 15.97	1168	319049	Endrin	0.003661	0.924465	5.000000			J
16.01		1904								
16.07		2135								
16.20	16.09 16.23	2097	248368	4,4'-DDD	0.008439	2.131088	5.000000			J
16.35	16.29 16.43	2327	304391	Endosulfan II	0.007641	1.929667	5.000000			J
16.41		755								
16.50		143								
16.59		617								
16.71		126								
16.80		239								
16.89		681								
16.95		1021								
17.04		159								
17.14		9654								
17.40		1012								
17.51		4040								
17.67	17.61 17.75	21640	267371	Endosulfan sulfate	0.080932	20.43748	5.000000			
17.80		1046								
17.98		478								
18.04		1908								
18.11		335								
18.23		1242								
18.43		1320								

CompuChem

Lab Smp Id : 1005130-07 Client Smp Id : SS50-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 06:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.54		326								
18.67		616								
18.76		3504								
18.85	18.75 18.89	891	304950	Endrin Ketone	0.002922	0.737826	5.000000			J
18.95		530								
19.04		3255								
19.09		1265								
19.18		3668								
19.37		4473								
19.44		4237								
19.54		2290								
19.69		342								
19.75		620								
19.86		3289								
19.98		1532								
20.05		1273								
20.18		4413								
20.30		2426								
20.47		2632								
20.55		1425								
20.63		1808								
20.85		3903								
21.06		4165								
21.27		197								
21.36		749								
21.46	21.41 21.55	21195	301734	Decachlorobiphenyl	0.070241	17.73756		58.5	55 - 130	
21.73		937								
21.89		1684								
22.10		122486								
22.47		958								
22.80		172								
22.97		4336								
23.14		2103								
23.41		582								
23.52		158								
23.90		480								
24.82		1450								

CompuChem

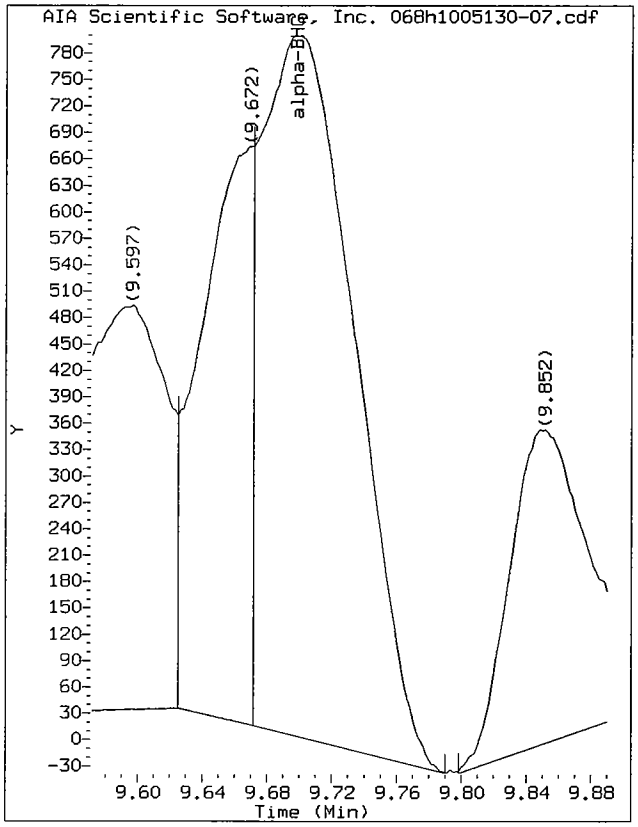
Lab Smp Id : 1005130-07 Client Smp Id : SS50-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 26-MAY-2010 06:37 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

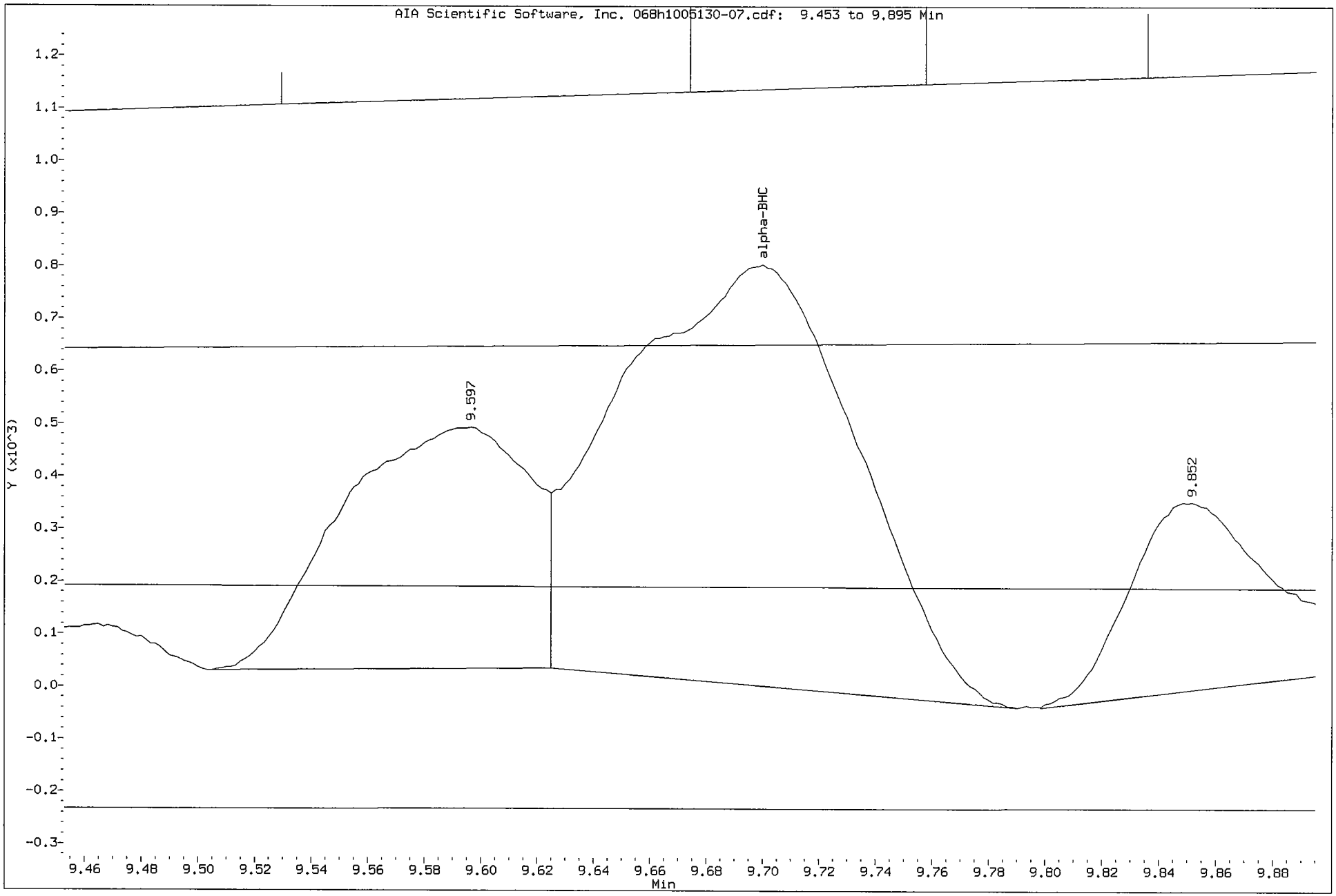
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
25.29		322								

Manually Integrated Peaks



Start: 9.67 Stop: 9.79

Data File: /chem/tracegc84.i/h100524e_2C.b/068h1005130-07.d/068h1005130-07.cdf
Injection Date: 26-MAY-2010 06:37
Instrument: tracegc84.i
Client Sample ID: SS50-0-1



3. Standards Data

a. Initial Calibration Data (Form VI)

b. Continuing Verification Summary (Form VII)

c. Analytical Sequence (Form VIII)

d. Identification Summary for Single Component Analytes (Form X)

e. Identification Summary for Multicomponent Analytes (Form X) – if applicable

f. Chromatograms and Data System Printouts

a. Initial Calibration Data
(Form VI)

For all GC columns, all instruments, in chronological order by GC column and instrument.

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/24/10 05/24/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1546 2330

LAB FILE ID: RF0.0025: 011H0E24RF0.005: 012H0E240RF0.01: 020H0E2400
RF0.02: 014H0E2400RF0.04: 015H0E2400

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	723000.00	715500.00	680050.00	672700.00	655175.00
beta-BHC	345800.00	326000.00	310800.00	309825.00	300625.00
alpha-BHC	792800.00	812800.00	787900.00	806525.00	810075.00
delta-BHC	691800.00	711300.00	694250.00	710000.00	712962.50
gamma-BHC (Lindane)	764400.00	772600.00	746700.00	755425.00	754150.00
4,4'-DDD	435400.00	437050.00	410450.00	407837.50	398187.50
4,4'-DDE	610700.00	602950.00	559000.00	545100.00	529956.25
4,4'-DDT	519200.00	512050.00	476300.00	468037.50	455150.00
Dieldrin	604900.00	599400.00	562125.00	550800.00	536050.00
Endosulfan I	634600.00	625900.00	586350.00	575750.00	551837.50
Endosulfan II	513100.00	510750.00	478775.00	467700.00	450975.00
Endosulfan sulfate	431000.00	437500.00	404600.00	396737.50	379687.50
Endrin	561600.00	545400.00	512175.00	497225.00	480075.00
Endrin Aldehyde	385900.00	390350.00	367100.00	356575.00	339756.25
Heptachlor	782400.00	786400.00	741050.00	731975.00	710587.50
Heptachlor Epoxide	682000.00	677300.00	636150.00	620100.00	595912.50
Methoxychlor	236740.00	229160.00	204640.00	192987.50	177568.75
Toxaphene			11873.000		
(2)			15235.500		
(3)			15617.000		
(4)			13516.500		
(5)			11559.000		
Endrin Ketone	505400.00	510100.00	472300.00	463250.00	443081.25
gamma-Chlordane	707800.00	687600.00	637850.00	626000.00	604362.50
alpha-Chlordane	603000.00	595100.00	557300.00	542625.00	524425.00
Decachlorobiphenyl	518700.00	490900.00	435725.00	406850.00	369881.25
Tetrachloro-m-Xylene	557600.00	551900.00	529650.00	534350.00	525012.50

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/24/10 05/24/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1546 2330

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	689285.000	4.2
beta-BHC	AVRG	318610.000	5.6
alpha-BHC	AVRG	802020.000	1.4
delta-BHC	AVRG	704062.500	1.4
gamma-BHC (Lindane)	AVRG	758655.000	1.3
4,4'-DDD	AVRG	417785.000	4.2
4,4'-DDE	AVRG	569541.250	6.3
4,4'-DDT	AVRG	486147.500	5.8
Dieldrin	AVRG	570655.000	5.3
Endosulfan I	AVRG	594887.500	5.8
Endosulfan II	AVRG	484260.000	5.6
Endosulfan sulfate	AVRG	409905.000	5.9
Endrin	AVRG	519295.000	6.5
Endrin Aldehyde	AVRG	367936.250	5.7
Heptachlor	AVRG	750482.500	4.4
Heptachlor Epoxide	AVRG	642292.500	5.8
Methoxychlor	AVRG	208219.250	11.8
Toxaphene	AVRG	11873.0000	0.0
(2)	AVRG	15235.5000	0.0
(3)	AVRG	15617.0000	0.0
(4)	AVRG	13516.5000	0.0
(5)	AVRG	11559.0000	0.0
Endrin Ketone	AVRG	478826.250	6.0
gamma-Chlordane	AVRG	652722.500	6.6
alpha-Chlordane	AVRG	564490.000	6.0
Decachlorobiphenyl	AVRG	444411.250	13.6
Tetrachloro-m-Xylene	AVRG	539702.500	2.6

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/24/10 05/24/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1546 2330

LAB FILE ID: RF0.0025: 011H0E24RF0.005: 012H0E240RF0.01: 020H0E2400
RF0.02: 014H0E2400RF0.04: 015H0E2400

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	427000.00	432800.00	410850.00	408100.00	398625.00
beta-BHC	211600.00	211600.00	200600.00	199300.00	193512.50
alpha-BHC	462600.00	471000.00	462900.00	481675.00	490225.00
delta-BHC	397600.00	414400.00	409900.00	427050.00	432912.50
gamma-BHC (Lindane)	435400.00	452900.00	443700.00	457450.00	460725.00
4,4'-DDD	250600.00	257400.00	247000.00	246737.50	240100.00
4,4'-DDE	378800.00	373650.00	346850.00	336937.50	324312.50
4,4'-DDT	312100.00	308400.00	290100.00	285525.00	278043.75
Dieldrin	367600.00	365950.00	344400.00	337625.00	325575.00
Endosulfan I	406600.00	398100.00	372100.00	357975.00	341287.50
Endosulfan II	325000.00	322500.00	301425.00	293362.50	279668.75
Endosulfan sulfate	288800.00	289150.00	264100.00	254462.50	240343.75
Endrin	342000.00	336600.00	316125.00	306150.00	294368.75
Endrin Aldehyde	260400.00	257400.00	239250.00	226362.50	212268.75
Heptachlor	437454.55	477000.00	451550.00	443725.00	430175.00
Heptachlor Epoxide	418400.00	419200.00	393850.00	385175.00	369212.50
Methoxychlor	150120.00	144730.00	127420.00	118377.50	107285.00
Toxaphene			13814.000		
(2)			17024.500		
(3)			7663.000		
(4)			13786.500		
(5)			5444.000		
Endrin Ketone	321400.00	326100.00	301875.00	295237.50	280137.50
gamma-Chlordane	413800.00	417200.00	390150.00	382850.00	370012.50
alpha-Chlordane	373800.00	369100.00	345300.00	334150.00	321112.50
Decachlorobiphenyl	364000.00	339250.00	294875.00	270025.00	240518.75
Tetrachloro-m-Xylene	364000.00	372900.00	341300.00	326525.00	321100.00

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/24/10 05/24/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1546 2330

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	415475.000	3.4
beta-BHC	AVRG	203322.500	3.9
alpha-BHC	AVRG	473680.000	2.6
delta-BHC	AVRG	416372.500	3.4
gamma-BHC (Lindane)	AVRG	450035.000	2.3
4,4'-DDD	AVRG	248367.500	2.5
4,4'-DDE	AVRG	352110.000	6.7
4,4'-DDT	AVRG	294833.750	5.0
Dieldrin	AVRG	348230.000	5.2
Endosulfan I	AVRG	375212.500	7.2
Endosulfan II	AVRG	304391.250	6.3
Endosulfan sulfate	AVRG	267371.250	8.0
Endrin	AVRG	319048.750	6.3
Endrin Aldehyde	AVRG	239136.250	8.5
Heptachlor	AVRG	447980.909	4.0
Heptachlor Epoxide	AVRG	397167.500	5.4
Methoxychlor	AVRG	129586.500	13.8
Toxaphene	AVRG	13814.0000	0.0
(2)	AVRG	17024.5000	0.0
(3)	AVRG	7663.00000	0.0
(4)	AVRG	13786.5000	0.0
(5)	AVRG	5444.00000	0.0
Endrin Ketone	AVRG	304950.000	6.2
gamma-Chlordane	AVRG	394802.500	5.1
alpha-Chlordane	AVRG	348692.500	6.5
Decachlorobiphenyl	AVRG	301733.750	16.6
Tetrachloro-m-Xylene	AVRG	345165.000	6.6

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1818 0201

LAB FILE ID: RF0.0025: 011J0E27RF0.005: 012J0E270RF0.01: 020J0E2701
RF0.02: 014J0E2701RF0.04: 015J0E2701

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	689000.00	667800.00	632900.00	607950.00	585200.00
beta-BHC	334400.00	297400.00	296600.00	291100.00	283162.50
alpha-BHC	798600.00	792600.00	769400.00	762100.00	757100.00
delta-BHC	705200.00	707400.00	683650.00	678075.00	673262.50
gamma-BHC (Lindane)	754800.00	745400.00	722300.00	718750.00	704712.50
4,4'-DDD	422300.00	410500.00	394025.00	374237.50	366225.00
4,4'-DDE	573800.00	546750.00	517475.00	496737.50	483943.75
4,4'-DDT	503900.00	479100.00	446900.00	427812.50	416193.75
Dieldrin	562300.00	538100.00	508150.00	489762.50	479468.75
Endosulfan I	594200.00	570900.00	555750.00	521425.00	498537.50
Endosulfan II	496600.00	469900.00	446300.00	426475.00	412356.25
Endosulfan sulfate	432700.00	416550.00	389175.00	368575.00	353275.00
Endrin	511200.00	486100.00	461225.00	435025.00	421806.25
Endrin Aldehyde	377500.00	364050.00	355425.00	330325.00	315050.00
Heptachlor	759800.00	731000.00	688850.00	661075.00	636600.00
Heptachlor Epoxide	650600.00	633000.00	591800.00	559950.00	533150.00
Methoxychlor	222640.00	208230.00	190545.00	179402.50	170977.50
Toxaphene			7421.000		
(2)			20833.000		
(3)			14312.500		
(4)			16310.000		
(5)			13342.000		
Endrin Ketone	497200.00	482900.00	453250.00	433600.00	419337.50
gamma-Chlordane	652000.00	634000.00	588300.00	561150.00	538925.00
alpha-Chlordane	569000.00	542600.00	515550.00	489675.00	466737.50
Decachlorobiphenyl	482100.00	446650.00	403000.00	369312.50	340687.50
Tetrachloro-m-Xylene	537800.00	545600.00	518200.00	513275.00	498912.50

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1818 0201

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	636570.000	6.7
beta-BHC	AVRG	300532.500	6.6
alpha-BHC	AVRG	775960.000	2.4
delta-BHC	AVRG	689517.500	2.3
gamma-BHC (Lindane)	AVRG	729192.500	2.8
4,4'-DDD	AVRG	393457.500	6.0
4,4'-DDE	AVRG	523741.250	7.0
4,4'-DDT	AVRG	454781.250	8.0
Dieldrin	AVRG	515556.250	6.6
Endosulfan I	AVRG	548162.500	7.0
Endosulfan II	AVRG	450326.250	7.5
Endosulfan sulfate	AVRG	392055.000	8.4
Endrin	AVRG	463071.250	7.9
Endrin Aldehyde	AVRG	348470.000	7.3
Heptachlor	AVRG	695465.000	7.2
Heptachlor Epoxide	AVRG	593700.000	8.2
Methoxychlor	AVRG	194359.000	10.8
Toxaphene	AVRG	7421.00000	0.0
(2)	AVRG	20833.0000	0.0
(3)	AVRG	14312.5000	0.0
(4)	AVRG	16310.0000	0.0
(5)	AVRG	13342.0000	0.0
Endrin Ketone	AVRG	457257.500	7.1
gamma-Chlordane	AVRG	594875.000	8.0
alpha-Chlordane	AVRG	516712.500	7.9
Decachlorobiphenyl	AVRG	408350.000	14.0
Tetrachloro-m-Xylene	AVRG	522757.500	3.6

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1818 0201

LAB FILE ID: RF0.0025: 011J0E27RF0.005: 012J0E270RF0.01: 020J0E2701
RF0.02: 014J0E2701RF0.04: 015J0E2701

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	543000.00	543500.00	537750.00	542075.00	544637.50
beta-BHC	251400.00	256400.00	246700.00	245775.00	242775.00
alpha-BHC	562000.00	589300.00	600750.00	631250.00	655487.50
delta-BHC	525200.00	534800.00	544550.00	567700.00	583925.00
gamma-BHC (Lindane)	558800.00	571500.00	581500.00	600750.00	615162.50
4,4'-DDD	333600.00	340000.00	339575.00	344112.50	345843.75
4,4'-DDE	482400.00	477550.00	465050.00	461000.00	457012.50
4,4'-DDT	414500.00	408650.00	400975.00	403962.50	401556.25
Dieldrin	465800.00	466850.00	460025.00	460187.50	456781.25
Endosulfan I	497200.00	488700.00	474850.00	468950.00	460212.50
Endosulfan II	422000.00	410950.00	403100.00	397450.00	391150.00
Endosulfan sulfate	384700.00	379650.00	363725.00	356675.00	348618.75
Endrin	421800.00	415300.00	404950.00	402612.50	398581.25
Endrin Aldehyde	325700.00	326950.00	322975.00	308375.00	300925.00
Heptachlor	549636.36	594700.00	584800.00	584750.00	583600.00
Heptachlor Epoxide	529000.00	519400.00	509950.00	503825.00	497387.50
Methoxychlor	201820.00	193160.00	181780.00	172997.50	164821.25
Toxaphene			15199.000		
(2)			18826.500		
(3)			23283.000		
(4)			19076.500		
(5)			7795.000		
Endrin Ketone	434900.00	429550.00	419150.00	411237.50	402756.25
gamma-Chlordane	526800.00	521000.00	508500.00	506025.00	503425.00
alpha-Chlordane	463600.00	454800.00	441750.00	437925.00	433162.50
Decachlorobiphenyl	466000.00	432800.00	401125.00	376587.50	356975.00
Tetrachloro-m-Xylene	429200.00	424600.00	410850.00	411550.00	407787.50

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1818 0201

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	542192.500	0.5
beta-BHC	AVRG	248610.000	2.1
alpha-BHC	AVRG	607757.500	6.0
delta-BHC	AVRG	551235.000	4.4
gamma-BHC (Lindane)	AVRG	585542.500	3.8
4,4'-DDD	AVRG	340626.250	1.4
4,4'-DDE	AVRG	468602.500	2.3
4,4'-DDT	AVRG	405928.750	1.4
Dieldrin	AVRG	461928.750	0.9
Endosulfan I	AVRG	477982.500	3.1
Endosulfan II	AVRG	404930.000	3.0
Endosulfan sulfate	AVRG	366673.750	4.2
Endrin	AVRG	408648.750	2.3
Endrin Aldehyde	AVRG	316985.000	3.7
Heptachlor	AVRG	579497.273	3.0
Heptachlor Epoxide	AVRG	511912.500	2.4
Methoxychlor	AVRG	182915.750	8.2
Toxaphene	AVRG	15199.0000	0.0
(2)	AVRG	18826.5000	0.0
(3)	AVRG	23283.0000	0.0
(4)	AVRG	19076.5000	0.0
(5)	AVRG	7795.00000	0.0
Endrin Ketone	AVRG	419518.750	3.1
gamma-Chlordane	AVRG	513150.000	2.0
alpha-Chlordane	AVRG	446247.500	2.8
Decachlorobiphenyl	AVRG	406697.500	10.7
Tetrachloro-m-Xylene	AVRG	416797.500	2.3

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/24/10 05/24/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1546 2330

LAB FILE ID: RT1: 011H0E24008-CRT2: 012H0E24008-CRT3: 020H0E24008-A
RT4: 014H0E24008-CRT5: 015H0E24008-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	12.460	12.460	12.460	12.460	12.460
beta-BHC	10.790	10.780	10.780	10.780	10.790
alpha-BHC	9.720	9.720	9.720	9.720	9.720
delta-BHC	11.220	11.220	11.220	11.220	11.220
gamma-BHC (Lindane)	10.550	10.540	10.550	10.550	10.550
4,4'-DDD	15.940	15.940	15.940	15.940	15.950
4,4'-DDE	14.640	14.640	14.640	14.640	14.640
4,4'-DDT	16.550	16.550	16.550	16.550	16.550
Dieldrin	15.300	15.300	15.300	15.300	15.300
Endosulfan I	14.770	14.770	14.770	14.770	14.770
Endosulfan II	16.300	16.300	16.300	16.300	16.300
Endosulfan sulfate	18.140	18.140	18.140	18.140	18.140
Endrin	15.810	15.810	15.810	15.810	15.810
Endrin Aldehyde	17.210	17.200	17.200	17.210	17.210
Heptachlor	11.740	11.740	11.740	11.740	11.740
Heptachlor Epoxide	13.880	13.880	13.880	13.880	13.880
Methoxychlor	17.570	17.570	17.570	17.570	17.570
Toxaphene			15.860		
(2)			16.540		
(3)			17.150		
(4)			18.410		
(5)			19.010		
Endrin Ketone	18.750	18.740	18.750	18.750	18.750
gamma-Chlordane	14.160	14.160	14.160	14.160	14.170
alpha-Chlordane	14.460	14.460	14.460	14.460	14.460
Decachlorobiphenyl	20.840	20.830	20.840	20.840	20.840
Tetrachloro-m-Xylene	8.190	8.180	8.180	8.180	8.190

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/24/10 05/24/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1546 2330

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	12.460	12.395	12.535
beta-BHC	10.784	10.715	10.855
alpha-BHC	9.720	9.652	9.792
delta-BHC	11.220	11.152	11.292
gamma-BHC (Lindane)	10.548	10.477	10.617
4,4'-DDD	15.942	15.875	16.015
4,4'-DDE	14.640	14.570	14.710
4,4'-DDT	16.550	16.478	16.618
Dieldrin	15.300	15.232	15.372
Endosulfan I	14.770	14.698	14.838
Endosulfan II	16.300	16.230	16.370
Endosulfan sulfate	18.140	18.075	18.215
Endrin	15.810	15.740	15.880
Endrin Aldehyde	17.206	17.137	17.277
Heptachlor	11.740	11.672	11.812
Heptachlor Epoxide	13.880	13.813	13.953
Methoxychlor	17.570	17.500	17.640
Toxaphene	15.860	15.792	15.932
(2)	16.540	16.473	16.613
(3)	17.150	17.083	17.223
(4)	18.410	18.342	18.482
(5)	19.010	18.942	19.082
Endrin Ketone	18.748	18.678	18.818
gamma-Chlordane	14.162	14.097	14.237
alpha-Chlordane	14.460	14.393	14.533
Decachlorobiphenyl	20.838	20.767	20.907
Tetrachloro-m-Xylene	8.184	8.115	8.255

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/24/10 05/24/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1546 2330

LAB FILE ID: RT1: 011H0E24008-CRT2: 012H0E24008-CRT3: 020H0E24008-A
RT4: 014H0E24008-CRT5: 015H0E24008-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	12.490	12.490	12.490	12.490	12.490
beta-BHC	10.890	10.890	10.890	10.890	10.890
alpha-BHC	9.750	9.740	9.750	9.750	9.750
delta-BHC	11.600	11.600	11.600	11.600	11.600
gamma-BHC (Lindane)	10.660	10.660	10.660	10.660	10.660
4,4'-DDD	16.190	16.190	16.190	16.190	16.190
4,4'-DDE	14.950	14.940	14.950	14.950	14.950
4,4'-DDT	16.860	16.860	16.860	16.860	16.860
Dieldrin	15.290	15.280	15.290	15.290	15.290
Endosulfan I	14.680	14.680	14.680	14.680	14.690
Endosulfan II	16.410	16.400	16.410	16.410	16.410
Endosulfan sulfate	17.720	17.720	17.720	17.720	17.720
Endrin	15.950	15.950	15.950	15.950	15.950
Endrin Aldehyde	17.130	17.130	17.130	17.130	17.130
Heptachlor	11.730	11.730	11.730	11.730	11.730
Heptachlor Epoxide	13.810	13.810	13.810	13.810	13.810
Methoxychlor	18.310	18.310	18.320	18.310	18.320
Toxaphene			16.580		
(2)			17.140		
(3)			17.700		
(4)			18.230		
(5)			18.760		
Endrin Ketone	18.860	18.860	18.860	18.860	18.870
gamma-Chlordane	14.240	14.240	14.240	14.240	14.240
alpha-Chlordane	14.560	14.560	14.560	14.560	14.560
Decachlorobiphenyl	21.520	21.520	21.520	21.520	21.520
Tetrachloro-m-Xylene	8.070	8.070	8.070	8.080	8.070

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/24/10 05/24/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1546 2330

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	12.490	12.423	12.563
beta-BHC	10.890	10.825	10.965
alpha-BHC	9.748	9.678	9.818
delta-BHC	11.600	11.533	11.673
gamma-BHC (Lindane)	10.660	10.593	10.733
4,4'-DDD	16.190	16.123	16.263
4,4'-DDE	14.948	14.878	15.018
4,4'-DDT	16.860	16.792	16.932
Dieldrin	15.288	15.218	15.358
Endosulfan I	14.682	14.615	14.755
Endosulfan II	16.408	16.337	16.477
Endosulfan sulfate	17.720	17.650	17.790
Endrin	15.950	15.880	16.020
Endrin Aldehyde	17.130	17.062	17.202
Heptachlor	11.730	11.663	11.803
Heptachlor Epoxide	13.810	13.745	13.885
Methoxychlor	18.314	18.247	18.387
Toxaphene	16.582	16.512	16.652
(2)	17.140	17.070	17.210
(3)	17.700	17.630	17.770
(4)	18.232	18.163	18.303
(5)	18.762	18.693	18.833
Endrin Ketone	18.862	18.797	18.937
gamma-Chlordane	14.240	14.170	14.310
alpha-Chlordane	14.560	14.495	14.635
Decachlorobiphenyl	21.520	21.455	21.595
Tetrachloro-m-Xylene	8.072	8.005	8.145

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1818 0201

LAB FILE ID: RT1: 011J0E27012-CRT2: 012J0E27012-CRT3: 020J0E27012-A
RT4: 014J0E27012-CRT5: 015J0E27012-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	12.340	12.340	12.340	12.340	12.340
beta-BHC	10.660	10.660	10.660	10.660	10.660
alpha-BHC	9.600	9.600	9.610	9.600	9.600
delta-BHC	11.090	11.090	11.100	11.090	11.090
gamma-BHC (Lindane)	10.430	10.430	10.430	10.430	10.430
4,4'-DDD	15.810	15.810	15.820	15.810	15.820
4,4'-DDE	14.510	14.520	14.520	14.510	14.520
4,4'-DDT	16.420	16.420	16.420	16.420	16.420
Dieldrin	15.160	15.170	15.170	15.160	15.170
Endosulfan I	14.630	14.640	14.640	14.630	14.640
Endosulfan II	16.160	16.160	16.160	16.160	16.160
Endosulfan sulfate	18.000	18.000	18.000	18.000	18.000
Endrin	15.680	15.680	15.680	15.680	15.680
Endrin Aldehyde	17.070	17.070	17.070	17.070	17.070
Heptachlor	11.620	11.620	11.620	11.620	11.620
Heptachlor Epoxide	13.750	13.750	13.750	13.750	13.750
Methoxychlor	17.440	17.440	17.440	17.440	17.450
Toxaphene			16.150		
(2)			16.290		
(3)			17.030		
(4)			17.900		
(5)			18.560		
Endrin Ketone	18.600	18.610	18.600	18.600	18.600
gamma-Chlordane	14.040	14.040	14.040	14.030	14.040
alpha-Chlordane	14.340	14.340	14.340	14.330	14.340
Decachlorobiphenyl	20.700	20.700	20.700	20.700	20.700
Tetrachloro-m-Xylene	8.090	8.080	8.090	8.080	8.080

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1818 0201

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	12.340	12.272	12.412
beta-BHC	10.660	10.588	10.728
alpha-BHC	9.602	9.533	9.673
delta-BHC	11.092	11.023	11.163
gamma-BHC (Lindane)	10.430	10.357	10.497
4,4'-DDD	15.814	15.747	15.887
4,4'-DDE	14.516	14.445	14.585
4,4'-DDT	16.420	16.350	16.490
Dieldrin	15.166	15.098	15.238
Endosulfan I	14.636	14.567	14.707
Endosulfan II	16.160	16.092	16.232
Endosulfan sulfate	18.000	17.933	18.073
Endrin	15.680	15.605	15.745
Endrin Aldehyde	17.070	16.997	17.137
Heptachlor	11.620	11.552	11.692
Heptachlor Epoxide	13.750	13.683	13.823
Methoxychlor	17.442	17.375	17.515
Toxaphene	16.150	16.078	16.218
(2)	16.290	16.223	16.363
(3)	17.030	16.957	17.097
(4)	17.900	17.827	17.967
(5)	18.560	18.493	18.633
Endrin Ketone	18.602	18.533	18.673
gamma-Chlordane	14.038	13.967	14.107
alpha-Chlordane	14.338	14.265	14.405
Decachlorobiphenyl	20.700	20.635	20.775
Tetrachloro-m-Xylene	8.084	8.012	8.152

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1818 0201

LAB FILE ID: RT1: 011J0E27012-CRT2: 012J0E27012-CRT3: 020J0E27012-A
RT4: 014J0E27012-CRT5: 015J0E27012-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	12.280	12.280	12.280	12.280	12.280
beta-BHC	10.700	10.700	10.700	10.690	10.700
alpha-BHC	9.550	9.550	9.550	9.550	9.550
delta-BHC	11.400	11.400	11.400	11.400	11.400
gamma-BHC (Lindane)	10.460	10.460	10.460	10.460	10.460
4,4'-DDD	15.970	15.980	15.970	15.970	15.980
4,4'-DDE	14.730	14.730	14.730	14.730	14.730
4,4'-DDT	16.640	16.640	16.640	16.640	16.640
Dieldrin	15.060	15.060	15.060	15.060	15.060
Endosulfan I	14.460	14.460	14.460	14.460	14.460
Endosulfan II	16.180	16.180	16.180	16.180	16.180
Endosulfan sulfate	17.490	17.490	17.490	17.490	17.490
Endrin	15.720	15.720	15.720	15.720	15.720
Endrin Aldehyde	16.900	16.900	16.900	16.900	16.900
Heptachlor	11.520	11.520	11.530	11.520	11.520
Heptachlor Epoxide	13.600	13.600	13.600	13.600	13.600
Methoxychlor	18.090	18.100	18.090	18.090	18.100
Toxaphene			15.610		
(2)			16.360		
(3)			16.920		
(4)			18.120		
(5)			18.540		
Endrin Ketone	18.630	18.630	18.630	18.630	18.630
gamma-Chlordane	14.020	14.020	14.020	14.020	14.020
alpha-Chlordane	14.350	14.350	14.350	14.340	14.350
Decachlorobiphenyl	21.250	21.250	21.250	21.250	21.250
Tetrachloro-m-Xylene	7.890	7.890	7.890	7.890	7.890

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date(s): 05/28/10 05/29/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1818 0201

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	12.280	12.208	12.348
beta-BHC	10.698	10.625	10.765
alpha-BHC	9.550	9.480	9.620
delta-BHC	11.400	11.330	11.470
gamma-BHC (Lindane)	10.460	10.390	10.530
4,4'-DDD	15.974	15.907	16.047
4,4'-DDE	14.730	14.665	14.805
4,4'-DDT	16.640	16.572	16.712
Dieldrin	15.060	14.993	15.133
Endosulfan I	14.460	14.392	14.532
Endosulfan II	16.180	16.108	16.248
Endosulfan sulfate	17.490	17.420	17.560
Endrin	15.720	15.652	15.792
Endrin Aldehyde	16.900	16.833	16.973
Heptachlor	11.522	11.453	11.593
Heptachlor Epoxide	13.600	13.528	13.668
Methoxychlor	18.094	18.027	18.167
Toxaphene	15.610	15.535	15.675
(2)	16.360	16.288	16.428
(3)	16.920	16.847	16.987
(4)	18.120	18.050	18.190
(5)	18.540	18.465	18.605
Endrin Ketone	18.630	18.557	18.697
gamma-Chlordane	14.020	13.952	14.092
alpha-Chlordane	14.348	14.277	14.417
Decachlorobiphenyl	21.250	21.180	21.320
Tetrachloro-m-Xylene	7.890	7.823	7.963

b. Continuing Calibration Summary (Form VII)

For all performance evaluation mixtures (if applicable) and Continuing calibration verification standards, on all GC columns and instruments, in chronological order by GC column and instrument.

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/25/10 Time: 2254

Lab File ID: 052HSEQ-CCV3 Init. Calib. Date(s): 05/24/10 05/24/10

Init. Calib. Times: 1546 1742

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	689285.00	710000.00	0.01	3.00	20.00	AVRG
alpha-BHC	802020.00	824350.00	0.01	2.78	20.00	AVRG
beta-BHC	318610.00	325500.00	0.01	2.16	20.00	AVRG
delta-BHC	704062.50	730600.00	0.01	3.77	20.00	AVRG
gamma-BHC (Lindane)	758655.00	782550.00	0.01	3.15	20.00	AVRG
4,4'-DDD	417785.00	417000.00	0.01	-0.19	20.00	AVRG
4,4'-DDE	569541.25	582050.00	0.01	2.20	20.00	AVRG
4,4'-DDT	486147.50	490650.00	0.01	0.93	20.00	AVRG
Dieldrin	570655.00	580425.00	0.01	1.71	20.00	AVRG
Endosulfan I	594887.50	611550.00	0.01	2.80	20.00	AVRG
Endosulfan II	484260.00	488125.00	0.01	0.80	20.00	AVRG
Endosulfan sulfate	409905.00	407375.00	0.01	-0.62	20.00	AVRG
Endrin	519295.00	523900.00	0.01	0.89	20.00	AVRG
Endrin Aldehyde	367936.25	377625.00	0.01	2.63	20.00	AVRG
Heptachlor	750482.50	778000.00	0.01	3.67	20.00	AVRG
Heptachlor Epoxide	642292.50	658600.00	0.01	2.54	20.00	AVRG
Methoxychlor	208219.25	204135.00	0.01	-1.96	20.00	AVRG
Endrin Ketone	478826.25	471875.00	0.01	-1.45	20.00	AVRG
gamma-Chlordane	652722.50	661250.00	0.01	1.31	20.00	AVRG
alpha-Chlordane	564490.00	579500.00	0.01	2.66	20.00	AVRG
Decachlorobiphenyl	444411.25	442300.00	0.01	-0.48	20.00	AVRG
Tetrachloro-m-Xylene	539702.50	560550.00	0.01	3.86	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/25/10 Time: 2254

Lab File ID: 052HSEQ-CCV3 Init. Calib. Date(s): 05/24/10 05/24/10

Init. Calib. Times: 1546 1742

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	415475.00	414400.00	0.01	-0.26	20.00	AVRG
beta-BHC	203322.50	202650.00	0.01	-0.33	20.00	AVRG
alpha-BHC	473680.00	463700.00	0.01	-2.11	20.00	AVRG
delta-BHC	416372.50	415700.00	0.01	-0.16	20.00	AVRG
gamma-BHC (Lindane)	450035.00	448200.00	0.01	-0.41	20.00	AVRG
4,4'-DDD	248367.50	242925.00	0.01	-2.19	20.00	AVRG
4,4'-DDE	352110.00	349050.00	0.01	-0.87	20.00	AVRG
4,4'-DDT	294833.75	290625.00	0.01	-1.43	20.00	AVRG
Dieldrin	348230.00	346475.00	0.01	-0.50	20.00	AVRG
Endosulfan I	375212.50	373800.00	0.01	-0.38	20.00	AVRG
Endosulfan II	304391.25	299275.00	0.01	-1.68	20.00	AVRG
Endosulfan sulfate	267371.25	260150.00	0.01	-2.70	20.00	AVRG
Endrin	319048.75	315800.00	0.01	-1.02	20.00	AVRG
Endrin Aldehyde	239136.25	238050.00	0.01	-0.45	20.00	AVRG
Heptachlor	447980.91	454150.00	0.01	1.38	20.00	AVRG
Heptachlor Epoxide	397167.50	395900.00	0.01	-0.32	20.00	AVRG
Methoxychlor	129586.50	125555.00	0.01	-3.11	20.00	AVRG
Endrin Ketone	304950.00	295850.00	0.01	-2.98	20.00	AVRG
gamma-Chlordane	394802.50	394850.00	0.01	0.01	20.00	AVRG
alpha-Chlordane	348692.50	349250.00	0.01	0.16	20.00	AVRG
Decachlorobiphenyl	301733.75	288175.00	0.01	-4.49	20.00	AVRG
Tetrachloro-m-Xylene	345165.00	331900.00	0.01	-3.84	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/26/10 Time: 0539

Lab File ID: 066HSEQ-CCV4 Init. Calib. Date(s): 05/24/10 05/24/10

Init. Calib. Times: 1546 1742

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	689285.00	732875.00	0.01	6.32	20.00	AVRG
alpha-BHC	802020.00	851885.00	0.01	6.22	20.00	AVRG
beta-BHC	318610.00	315440.00	0.01	-0.99	20.00	AVRG
delta-BHC	704062.50	707420.00	0.01	0.48	20.00	AVRG
gamma-BHC (Lindane)	758655.00	797857.50	0.01	5.17	20.00	AVRG
4,4'-DDD	417785.00	446776.25	0.01	6.94	20.00	AVRG
4,4'-DDE	569541.25	596581.25	0.01	4.75	20.00	AVRG
4,4'-DDT	486147.50	501692.50	0.01	3.20	20.00	AVRG
Dieldrin	570655.00	593755.00	0.01	4.05	20.00	AVRG
Endosulfan I	594887.50	648092.50	0.01	8.94	20.00	AVRG
Endosulfan II	484260.00	505213.75	0.01	4.33	20.00	AVRG
Endosulfan sulfate	409905.00	427065.00	0.01	4.19	20.00	AVRG
Endrin	519295.00	546632.50	0.01	5.26	20.00	AVRG
Endrin Aldehyde	367936.25	387966.25	0.01	5.44	20.00	AVRG
Heptachlor	750482.50	800255.00	0.01	6.63	20.00	AVRG
Heptachlor Epoxide	642292.50	673652.50	0.01	4.88	20.00	AVRG
Methoxychlor	208219.25	229393.00	0.01	10.17	20.00	AVRG
Endrin Ketone	478826.25	496012.50	0.01	3.59	20.00	AVRG
gamma-Chlordane	652722.50	673185.00	0.01	3.13	20.00	AVRG
alpha-Chlordane	564490.00	589850.00	0.01	4.49	20.00	AVRG
Decachlorobiphenyl	444411.25	472250.00	0.01	6.26	20.00	AVRG
Tetrachloro-m-Xylene	539702.50	582005.00	0.01	7.84	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/26/10 Time: 0539

Lab File ID: 066HSEQ-CCV4 Init. Calib. Date(s): 05/24/10 05/24/10

Init. Calib. Times: 1546 1742

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	415475.00	422760.00	0.01	1.75	20.00	AVRG
beta-BHC	203322.50	195140.00	0.01	-4.02	20.00	AVRG
alpha-BHC	473680.00	472937.50	0.01	-0.16	20.00	AVRG
delta-BHC	416372.50	397215.00	0.01	-4.60	20.00	AVRG
gamma-BHC (Lindane)	450035.00	456065.00	0.01	1.34	20.00	AVRG
4,4'-DDD	248367.50	255505.00	0.01	2.87	20.00	AVRG
4,4'-DDE	352110.00	362323.75	0.01	2.90	20.00	AVRG
4,4'-DDT	294833.75	290440.00	0.01	-1.49	20.00	AVRG
Dieldrin	348230.00	349046.25	0.01	0.23	20.00	AVRG
Endosulfan I	375212.50	368345.00	0.01	-1.83	20.00	AVRG
Endosulfan II	304391.25	299277.50	0.01	-1.68	20.00	AVRG
Endosulfan sulfate	267371.25	269996.25	0.01	0.98	20.00	AVRG
Endrin	319048.75	326080.00	0.01	2.20	20.00	AVRG
Endrin Aldehyde	239136.25	240423.75	0.01	0.54	20.00	AVRG
Heptachlor	447980.91	461975.00	0.01	3.12	20.00	AVRG
Heptachlor Epoxide	397167.50	400207.50	0.01	0.76	20.00	AVRG
Methoxychlor	129586.50	134945.50	0.01	4.14	20.00	AVRG
Endrin Ketone	304950.00	306911.25	0.01	0.64	20.00	AVRG
gamma-Chlordane	394802.50	396425.00	0.01	0.41	20.00	AVRG
alpha-Chlordane	348692.50	344997.50	0.01	-1.06	20.00	AVRG
Decachlorobiphenyl	301733.75	304510.00	0.01	0.92	20.00	AVRG
Tetrachloro-m-Xylene	345165.00	347625.00	0.01	0.71	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/26/10 Time: 1225

Lab File ID: 080HSEQ-CCV5 Init. Calib. Date(s): 05/24/10 05/24/10

Init. Calib. Times: 1546 1742

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	689285.00	789200.00	0.01	14.50	20.00	AVRG
alpha-BHC	802020.00	900310.00	0.01	12.26	20.00	AVRG
beta-BHC	318610.00	324730.00	0.01	1.92	20.00	AVRG
delta-BHC	704062.50	713157.50	0.01	1.29	20.00	AVRG
gamma-BHC (Lindane)	758655.00	847340.00	0.01	11.69	20.00	AVRG
4,4'-DDD	417785.00	472022.50	0.01	12.98	20.00	AVRG
4,4'-DDE	569541.25	611376.25	0.01	7.34	20.00	AVRG
4,4'-DDT	486147.50	500900.00	0.01	3.03	20.00	AVRG
Dieldrin	570655.00	627507.50	0.01	9.96	20.00	AVRG
Endosulfan I	594887.50	712442.50	0.01	19.76	20.00	AVRG
Endosulfan II	484260.00	523890.00	0.01	8.18	20.00	AVRG
Endosulfan sulfate	409905.00	448790.00	0.01	9.49	20.00	AVRG
Endrin	519295.00	570990.00	0.01	9.95	20.00	AVRG
Endrin Aldehyde	367936.25	409447.50	0.01	11.28	20.00	AVRG
Heptachlor	750482.50	847392.50	0.01	12.91	20.00	AVRG
Heptachlor Epoxide	642292.50	713665.00	0.01	11.11	20.00	AVRG
Methoxychlor	208219.25	224777.75	0.01	7.95	20.00	AVRG
Endrin Ketone	478826.25	521696.25	0.01	8.95	20.00	AVRG
gamma-Chlordane	652722.50	711310.00	0.01	8.98	20.00	AVRG
alpha-Chlordane	564490.00	624115.00	0.01	10.56	20.00	AVRG
Decachlorobiphenyl	444411.25	481282.50	0.01	8.30	20.00	AVRG
Tetrachloro-m-Xylene	539702.50	611477.50	0.01	13.30	20.00	AVRG

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/26/10 Time: 1225

Lab File ID: 080HSEQ-CCV5 Init. Calib. Date(s): 05/24/10 05/24/10

Init. Calib. Times: 1546 1742

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	415475.00	451100.00	0.01	8.57	20.00	AVRG
beta-BHC	203322.50	202500.00	0.01	-0.40	20.00	AVRG
alpha-BHC	473680.00	503350.00	0.01	6.26	20.00	AVRG
delta-BHC	416372.50	398450.00	0.01	-4.30	20.00	AVRG
gamma-BHC (Lindane)	450035.00	483900.00	0.01	7.52	20.00	AVRG
4,4'-DDD	248367.50	268375.00	0.01	8.06	20.00	AVRG
4,4'-DDE	352110.00	390200.00	0.01	10.82	20.00	AVRG
4,4'-DDT	294833.75	300525.00	0.01	1.93	20.00	AVRG
Dieldrin	348230.00	370800.00	0.01	6.48	20.00	AVRG
Endosulfan I	375212.50	392700.00	0.01	4.66	20.00	AVRG
Endosulfan II	304391.25	330050.00	0.01	8.43	20.00	AVRG
Endosulfan sulfate	267371.25	281100.00	0.01	5.13	20.00	AVRG
Endrin	319048.75	344828.75	0.01	8.08	20.00	AVRG
Endrin Aldehyde	239136.25	252425.00	0.01	5.56	20.00	AVRG
Heptachlor	447980.91	489800.00	0.01	9.34	20.00	AVRG
Heptachlor Epoxide	397167.50	425850.00	0.01	7.22	20.00	AVRG
Methoxychlor	129586.50	132275.00	0.01	2.07	20.00	AVRG
Endrin Ketone	304950.00	327100.00	0.01	7.26	20.00	AVRG
gamma-Chlordane	394802.50	424100.00	0.01	7.42	20.00	AVRG
alpha-Chlordane	348692.50	367200.00	0.01	5.31	20.00	AVRG
Decachlorobiphenyl	301733.75	324450.00	0.01	7.53	20.00	AVRG
Tetrachloro-m-Xylene	345165.00	368200.00	0.01	6.67	20.00	AVRG

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/26/10 Time: 1910

Lab File ID: 094HSEQ-CCV6 Init. Calib. Date(s): 05/24/10 05/24/10

Init. Calib. Times: 1546 1742

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE	
Aldrin	689285.00	787122.50	0.01	14.19	20.00	AVRG	
alpha-BHC	802020.00	908605.00	0.01	13.29	20.00	AVRG	
beta-BHC	318610.00	317785.00	0.01	-0.26	20.00	AVRG	
delta-BHC	704062.50	695057.50	0.01	-1.28	20.00	AVRG	
gamma-BHC (Lindane)	758655.00	850375.00	0.01	12.09	20.00	AVRG	
4,4'-DDD	417785.00	477856.25	0.01	14.38	20.00	AVRG	
4,4'-DDE	569541.25	592416.25	0.01	4.02	20.00	AVRG	
4,4'-DDT	486147.50	503662.50	0.01	3.60	20.00	AVRG	
Dieldrin	570655.00	629831.25	0.01	10.37	20.00	AVRG	
Endosulfan I	594887.50	802277.50	0.01	34.86	20.00	AVRG	<-
Endosulfan II	484260.00	538998.75	0.01	11.30	20.00	AVRG	
Endosulfan sulfate	409905.00	460126.25	0.01	12.25	20.00	AVRG	
Endrin	519295.00	582735.00	0.01	12.22	20.00	AVRG	
Endrin Aldehyde	367936.25	424082.50	0.01	15.26	20.00	AVRG	
Heptachlor	750482.50	860695.00	0.01	14.68	20.00	AVRG	
Heptachlor Epoxide	642292.50	717860.00	0.01	11.76	20.00	AVRG	
Methoxychlor	208219.25	230422.25	0.01	10.66	20.00	AVRG	
Endrin Ketone	478826.25	525332.50	0.01	9.71	20.00	AVRG	
gamma-Chlordane	652722.50	716965.00	0.01	9.84	20.00	AVRG	
alpha-Chlordane	564490.00	624552.50	0.01	10.64	20.00	AVRG	
Decachlorobiphenyl	444411.25	462347.50	0.01	4.04	20.00	AVRG	
Tetrachloro-m-Xylene	539702.50	624195.00	0.01	15.66	20.00	AVRG	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/26/10 Time: 1910

Lab File ID: 094HSEQ-CCV6 Init. Calib. Date(s): 05/24/10 05/24/10

Init. Calib. Times: 1546 1742

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE	
Aldrin	415475.00	456572.50	0.01	9.89	20.00	AVRG	
beta-BHC	203322.50	199357.50	0.01	-1.95	20.00	AVRG	
alpha-BHC	473680.00	508602.50	0.01	7.37	20.00	AVRG	
delta-BHC	416372.50	373832.50	0.01	-10.22	20.00	AVRG	
gamma-BHC (Lindane)	450035.00	488127.50	0.01	8.46	20.00	AVRG	
4,4'-DDD	248367.50	264863.75	0.01	6.64	20.00	AVRG	
4,4'-DDE	352110.00	399002.50	0.01	13.32	20.00	AVRG	
4,4'-DDT	294833.75	297648.75	0.01	0.95	20.00	AVRG	
Dieldrin	348230.00	373683.75	0.01	7.31	20.00	AVRG	
Endosulfan I	375212.50	396050.00	0.01	5.55	20.00	AVRG	
Endosulfan II	304391.25	340586.25	0.01	11.89	20.00	AVRG	
Endosulfan sulfate	267371.25	331753.75	0.01	24.08	20.00	AVRG	<-
Endrin	319048.75	348852.50	0.01	9.34	20.00	AVRG	
Endrin Aldehyde	239136.25	252432.50	0.01	5.56	20.00	AVRG	
Heptachlor	447980.91	493712.50	0.01	10.21	20.00	AVRG	
Heptachlor Epoxide	397167.50	429520.00	0.01	8.14	20.00	AVRG	
Methoxychlor	129586.50	130044.00	0.01	0.35	20.00	AVRG	
Endrin Ketone	304950.00	329736.25	0.01	8.13	20.00	AVRG	
gamma-Chlordane	394802.50	427725.00	0.01	8.34	20.00	AVRG	
alpha-Chlordane	348692.50	369595.00	0.01	5.99	20.00	AVRG	
Decachlorobiphenyl	301733.75	323932.50	0.01	7.36	20.00	AVRG	
Tetrachloro-m-Xylene	345165.00	373600.00	0.01	8.24	20.00	AVRG	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/29/10 Time: 0425

Lab File ID: 025JSEQ-CCV1 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	646012.50	0.01	1.48	20.00	AVRG
alpha-BHC	775960.00	789092.50	0.01	1.69	20.00	AVRG
beta-BHC	300532.50	301810.00	0.01	0.42	20.00	AVRG
delta-BHC	689517.50	700305.00	0.01	1.56	20.00	AVRG
gamma-BHC (Lindane)	729192.50	738830.00	0.01	1.32	20.00	AVRG
4,4'-DDD	393457.50	388742.50	0.01	-1.20	20.00	AVRG
4,4'-DDE	523741.25	520770.00	0.01	-0.57	20.00	AVRG
4,4'-DDT	454781.25	446406.25	0.01	-1.84	20.00	AVRG
Dieldrin	515556.25	512532.50	0.01	-0.59	20.00	AVRG
Endosulfan I	548162.50	554002.50	0.01	1.06	20.00	AVRG
Endosulfan II	450326.25	447660.00	0.01	-0.59	20.00	AVRG
Endosulfan sulfate	392055.00	387507.50	0.01	-1.16	20.00	AVRG
Endrin	463071.25	460905.00	0.01	-0.47	20.00	AVRG
Endrin Aldehyde	348470.00	348453.75	0.01	-0.00	20.00	AVRG
Heptachlor	695465.00	724787.50	0.01	4.22	20.00	AVRG
Heptachlor Epoxide	593700.00	597050.00	0.01	0.56	20.00	AVRG
Methoxychlor	194359.00	188820.50	0.01	-2.85	20.00	AVRG
Endrin Ketone	457257.50	446662.50	0.01	-2.32	20.00	AVRG
gamma-Chlordane	594875.00	595430.00	0.01	0.09	20.00	AVRG
alpha-Chlordane	516712.50	521020.00	0.01	0.83	20.00	AVRG
Decachlorobiphenyl	408350.00	415462.50	0.01	1.74	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	531600.00	0.01	1.69	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/29/10 Time: 0425

Lab File ID: 025JSEQ-CCV1 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	536450.00	0.01	-1.06	20.00	AVRG
beta-BHC	248610.00	245015.00	0.01	-1.45	20.00	AVRG
alpha-BHC	607757.50	595050.00	0.01	-2.09	20.00	AVRG
delta-BHC	551235.00	542912.50	0.01	-1.51	20.00	AVRG
gamma-BHC (Lindane)	585542.50	577655.00	0.01	-1.35	20.00	AVRG
4,4'-DDD	340626.25	337320.00	0.01	-0.97	20.00	AVRG
4,4'-DDE	468602.50	464816.25	0.01	-0.81	20.00	AVRG
4,4'-DDT	405928.75	399181.25	0.01	-1.66	20.00	AVRG
Dieldrin	461928.75	459185.00	0.01	-0.59	20.00	AVRG
Endosulfan I	477982.50	472790.00	0.01	-1.09	20.00	AVRG
Endosulfan II	404930.00	401732.50	0.01	-0.79	20.00	AVRG
Endosulfan sulfate	366673.75	360831.25	0.01	-1.59	20.00	AVRG
Endrin	408648.75	408807.50	0.01	0.04	20.00	AVRG
Endrin Aldehyde	316985.00	319210.00	0.01	0.70	20.00	AVRG
Heptachlor	579497.27	581710.00	0.01	0.38	20.00	AVRG
Heptachlor Epoxide	511912.50	504135.00	0.01	-1.52	20.00	AVRG
Methoxychlor	182915.75	178317.00	0.01	-2.51	20.00	AVRG
Endrin Ketone	419518.75	411616.25	0.01	-1.88	20.00	AVRG
gamma-Chlordane	513150.00	506935.00	0.01	-1.21	20.00	AVRG
alpha-Chlordane	446247.50	441402.50	0.01	-1.08	20.00	AVRG
Decachlorobiphenyl	406697.50	397097.50	0.01	-2.36	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	410607.50	0.01	-1.48	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/29/10 Time: 0943

Lab File ID: 036JSEQ-CCV2 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	642602.50	0.01	0.95	20.00	AVRG
alpha-BHC	775960.00	789140.00	0.01	1.70	20.00	AVRG
beta-BHC	300532.50	303560.00	0.01	1.01	20.00	AVRG
delta-BHC	689517.50	705177.50	0.01	2.27	20.00	AVRG
gamma-BHC (Lindane)	729192.50	736487.50	0.01	1.00	20.00	AVRG
4,4'-DDD	393457.50	399771.25	0.01	1.60	20.00	AVRG
4,4'-DDE	523741.25	524623.75	0.01	0.17	20.00	AVRG
4,4'-DDT	454781.25	512050.00	0.01	12.59	20.00	AVRG
Dieldrin	515556.25	515505.00	0.01	-0.01	20.00	AVRG
Endosulfan I	548162.50	554330.00	0.01	1.12	20.00	AVRG
Endosulfan II	450326.25	445340.00	0.01	-1.11	20.00	AVRG
Endosulfan sulfate	392055.00	390212.50	0.01	-0.47	20.00	AVRG
Endrin	463071.25	474986.25	0.01	2.57	20.00	AVRG
Endrin Aldehyde	348470.00	339605.00	0.01	-2.54	20.00	AVRG
Heptachlor	695465.00	715137.50	0.01	2.83	20.00	AVRG
Heptachlor Epoxide	593700.00	595400.00	0.01	0.29	20.00	AVRG
Methoxychlor	194359.00	191686.00	0.01	-1.38	20.00	AVRG
Endrin Ketone	457257.50	443977.50	0.01	-2.90	20.00	AVRG
gamma-Chlordane	594875.00	599920.00	0.01	0.85	20.00	AVRG
alpha-Chlordane	516712.50	525602.50	0.01	1.72	20.00	AVRG
Decachlorobiphenyl	408350.00	439185.00	0.01	7.55	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	533170.00	0.01	1.99	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 05/29/10 Time: 0943

Lab File ID: 036JSEQ-CCV2 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	533875.00	0.01	-1.53	20.00	AVRG
beta-BHC	248610.00	244917.50	0.01	-1.48	20.00	AVRG
alpha-BHC	607757.50	595225.00	0.01	-2.06	20.00	AVRG
delta-BHC	551235.00	544585.00	0.01	-1.21	20.00	AVRG
gamma-BHC (Lindane)	585542.50	575390.00	0.01	-1.73	20.00	AVRG
4,4'-DDD	340626.25	340277.50	0.01	-0.10	20.00	AVRG
4,4'-DDE	468602.50	465057.50	0.01	-0.76	20.00	AVRG
4,4'-DDT	405928.75	467793.75	0.01	15.24	20.00	AVRG
Dieldrin	461928.75	457626.25	0.01	-0.93	20.00	AVRG
Endosulfan I	477982.50	470307.50	0.01	-1.60	20.00	AVRG
Endosulfan II	404930.00	400360.00	0.01	-1.13	20.00	AVRG
Endosulfan sulfate	366673.75	362423.75	0.01	-1.16	20.00	AVRG
Endrin	408648.75	415052.50	0.01	1.57	20.00	AVRG
Endrin Aldehyde	316985.00	315012.50	0.01	-0.62	20.00	AVRG
Heptachlor	579497.27	579220.00	0.01	-0.05	20.00	AVRG
Heptachlor Epoxide	511912.50	500365.00	0.01	-2.26	20.00	AVRG
Methoxychlor	182915.75	180104.00	0.01	-1.54	20.00	AVRG
Endrin Ketone	419518.75	409560.00	0.01	-2.37	20.00	AVRG
gamma-Chlordane	513150.00	506690.00	0.01	-1.26	20.00	AVRG
alpha-Chlordane	446247.50	441047.50	0.01	-1.16	20.00	AVRG
Decachlorobiphenyl	406697.50	398587.50	0.01	-1.99	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	409427.50	0.01	-1.77	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 06/04/10 Time: 1846

Lab File ID: 205JSEQ-CCV2 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	687727.50	0.01	8.04	20.00	AVRG
alpha-BHC	775960.00	850940.00	0.01	9.66	20.00	AVRG
beta-BHC	300532.50	328235.00	0.01	9.22	20.00	AVRG
delta-BHC	689517.50	729430.00	0.01	5.79	20.00	AVRG
gamma-BHC (Lindane)	729192.50	792385.00	0.01	8.67	20.00	AVRG
4,4'-DDD	393457.50	414800.00	0.01	5.42	20.00	AVRG
4,4'-DDE	523741.25	552472.50	0.01	5.48	20.00	AVRG
4,4'-DDT	454781.25	473670.00	0.01	4.15	20.00	AVRG
Dieldrin	515556.25	550295.00	0.01	6.74	20.00	AVRG
Endosulfan I	548162.50	605145.00	0.01	10.40	20.00	AVRG
Endosulfan II	450326.25	480020.00	0.01	6.59	20.00	AVRG
Endosulfan sulfate	392055.00	412102.50	0.01	5.11	20.00	AVRG
Endrin	463071.25	510762.50	0.01	10.30	20.00	AVRG
Endrin Aldehyde	348470.00	368831.25	0.01	5.84	20.00	AVRG
Heptachlor	695465.00	750732.50	0.01	7.95	20.00	AVRG
Heptachlor Epoxide	593700.00	634845.00	0.01	6.93	20.00	AVRG
Methoxychlor	194359.00	200465.75	0.01	3.14	20.00	AVRG
Endrin Ketone	457257.50	471615.00	0.01	3.14	20.00	AVRG
gamma-Chlordane	594875.00	637112.50	0.01	7.10	20.00	AVRG
alpha-Chlordane	516712.50	555670.00	0.01	7.54	20.00	AVRG
Decachlorobiphenyl	408350.00	409392.50	0.01	0.26	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	571975.00	0.01	9.41	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 06/04/10 Time: 1846

Lab File ID: 205JSEQ-CCV2 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	580167.50	0.01	7.00	20.00	AVRG
beta-BHC	248610.00	265230.00	0.01	6.68	20.00	AVRG
alpha-BHC	607757.50	646580.00	0.01	6.39	20.00	AVRG
delta-BHC	551235.00	569652.50	0.01	3.34	20.00	AVRG
gamma-BHC (Lindane)	585542.50	626230.00	0.01	6.95	20.00	AVRG
4,4'-DDD	340626.25	356540.00	0.01	4.67	20.00	AVRG
4,4'-DDE	468602.50	499463.75	0.01	6.58	20.00	AVRG
4,4'-DDT	405928.75	417687.50	0.01	2.90	20.00	AVRG
Dieldrin	461928.75	496540.00	0.01	7.49	20.00	AVRG
Endosulfan I	477982.50	509622.50	0.01	6.62	20.00	AVRG
Endosulfan II	404930.00	432263.75	0.01	6.75	20.00	AVRG
Endosulfan sulfate	366673.75	387790.00	0.01	5.76	20.00	AVRG
Endrin	408648.75	454022.50	0.01	11.10	20.00	AVRG
Endrin Aldehyde	316985.00	337892.50	0.01	6.60	20.00	AVRG
Heptachlor	579497.27	619542.50	0.01	6.91	20.00	AVRG
Heptachlor Epoxide	511912.50	545315.00	0.01	6.52	20.00	AVRG
Methoxychlor	182915.75	187702.00	0.01	2.62	20.00	AVRG
Endrin Ketone	419518.75	435530.00	0.01	3.82	20.00	AVRG
gamma-Chlordane	513150.00	549257.50	0.01	7.04	20.00	AVRG
alpha-Chlordane	446247.50	475492.50	0.01	6.55	20.00	AVRG
Decachlorobiphenyl	406697.50	414710.00	0.01	1.97	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	433405.00	0.01	3.98	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 06/04/10 Time: 2237

Lab File ID: 213JSEQ-CCV3 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	636570.00	680680.00	0.01	6.93	20.00	AVRG
alpha-BHC	775960.00	842777.50	0.01	8.61	20.00	AVRG
beta-BHC	300532.50	321307.50	0.01	6.91	20.00	AVRG
delta-BHC	689517.50	730755.00	0.01	5.98	20.00	AVRG
gamma-BHC (Lindane)	729192.50	785437.50	0.01	7.71	20.00	AVRG
4,4'-DDD	393457.50	402196.25	0.01	2.22	20.00	AVRG
4,4'-DDE	523741.25	528062.50	0.01	0.82	20.00	AVRG
4,4'-DDT	454781.25	459313.75	0.01	1.00	20.00	AVRG
Dieldrin	515556.25	543782.50	0.01	5.47	20.00	AVRG
Endosulfan I	548162.50	570430.00	0.01	4.06	20.00	AVRG
Endosulfan II	450326.25	467440.00	0.01	3.80	20.00	AVRG
Endosulfan sulfate	392055.00	400625.00	0.01	2.18	20.00	AVRG
Endrin	463071.25	499843.75	0.01	7.94	20.00	AVRG
Endrin Aldehyde	348470.00	365408.75	0.01	4.86	20.00	AVRG
Heptachlor	695465.00	745560.00	0.01	7.20	20.00	AVRG
Heptachlor Epoxide	593700.00	625982.50	0.01	5.44	20.00	AVRG
Methoxychlor	194359.00	193158.50	0.01	-0.62	20.00	AVRG
Endrin Ketone	457257.50	453223.75	0.01	-0.88	20.00	AVRG
gamma-Chlordane	594875.00	630690.00	0.01	6.02	20.00	AVRG
alpha-Chlordane	516712.50	548067.50	0.01	6.07	20.00	AVRG
Decachlorobiphenyl	408350.00	399038.75	0.01	-2.28	20.00	AVRG
Tetrachloro-m-Xylene	522757.50	559275.00	0.01	6.98	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: TRACEGC84 Calibration Date: 06/04/10 Time: 2237

Lab File ID: 213JSEQ-CCV3 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1818 2014

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	542192.50	573440.00	0.01	5.76	20.00	AVRG
beta-BHC	248610.00	260717.50	0.01	4.87	20.00	AVRG
alpha-BHC	607757.50	638090.00	0.01	4.99	20.00	AVRG
delta-BHC	551235.00	564417.50	0.01	2.39	20.00	AVRG
gamma-BHC (Lindane)	585542.50	620430.00	0.01	5.96	20.00	AVRG
4,4'-DDD	340626.25	346505.00	0.01	1.72	20.00	AVRG
4,4'-DDE	468602.50	489406.25	0.01	4.44	20.00	AVRG
4,4'-DDT	405928.75	404187.50	0.01	-0.43	20.00	AVRG
Dieldrin	461928.75	488890.00	0.01	5.84	20.00	AVRG
Endosulfan I	477982.50	501687.50	0.01	4.96	20.00	AVRG
Endosulfan II	404930.00	420807.50	0.01	3.92	20.00	AVRG
Endosulfan sulfate	366673.75	374732.50	0.01	2.20	20.00	AVRG
Endrin	408648.75	446988.75	0.01	9.38	20.00	AVRG
Endrin Aldehyde	316985.00	327605.00	0.01	3.35	20.00	AVRG
Heptachlor	579497.27	613432.50	0.01	5.86	20.00	AVRG
Heptachlor Epoxide	511912.50	538252.50	0.01	5.14	20.00	AVRG
Methoxychlor	182915.75	180065.00	0.01	-1.56	20.00	AVRG
Endrin Ketone	419518.75	417131.25	0.01	-0.57	20.00	AVRG
gamma-Chlordane	513150.00	539552.50	0.01	5.14	20.00	AVRG
alpha-Chlordane	446247.50	468480.00	0.01	4.98	20.00	AVRG
Decachlorobiphenyl	406697.50	395908.75	0.01	-2.65	20.00	AVRG
Tetrachloro-m-Xylene	416797.50	431170.00	0.01	3.45	20.00	AVRG

FORM VII PEST

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMHA Date Analyzed :05/24/10

Lab Sample ID (PEM): 0E24008-PEM1 Time Analyzed :1518

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	14.64	14.57	14.71	157
4,4'-DDT	16.55	16.48	16.62	14196
Endrin	15.81	15.74	15.88	11348
Endrin Aldehyde	17.21	17.14	17.28	112
Endrin Ketone	18.75	18.68	18.82	186

4,4'-DDT % breakdown (1): 1.09 Endrin % breakdown (1): 2.56

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMHA Date Analyzed :05/24/10

Lab Sample ID (PEM): 0E24008-PEM1 Time Analyzed :1518

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.19	16.12	16.26	39
4,4'-DDE	14.95	14.88	15.02	69
4,4'-DDT	16.86	16.79	16.93	8712
Endrin	15.95	15.88	16.02	7039
Endrin Aldehyde	17.15	17.06	17.20	168
Endrin Ketone	18.86	18.80	18.94	97

4,4'-DDT % breakdown (1): 1.22 Endrin % breakdown (1): 3.63

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMHA Date Analyzed :05/28/10

Lab Sample ID (PEM): 0E27012-PEM1 Time Analyzed :1749

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	14.50	14.45	14.59	134
4,4'-DDT	16.42	16.35	16.49	13271
Endrin	15.68	15.61	15.74	10368
Endrin Aldehyde	17.07	17.00	17.14	184
Endrin Ketone	18.61	18.53	18.67	230

4,4'-DDT % breakdown (1): 1.000 Endrin % breakdown (1): 3.84

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMHA Date Analyzed :05/28/10

Lab Sample ID (PEM): 0E27012-PEM1 Time Analyzed :1749

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.91	15.91	16.05	30
4,4'-DDE	14.73	14.66	14.80	94
4,4'-DDT	16.64	16.57	16.71	11744
Endrin	15.72	15.65	15.79	8924
Endrin Aldehyde	16.91	16.83	16.97	100
Endrin Ketone	18.63	18.56	18.70	174

4,4'-DDT % breakdown (1): 1.04 Endrin % breakdown (1): 2.98

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHI Date Analyzed :05/25/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :2157

EPA Sample No.(PEM): PEMHJ Date Analyzed :05/25/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :2323

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
alpha-BHC	9.71	9.65	9.79	8495
beta-BHC	10.77	10.71	10.86	3498
gamma-BHC (Lindane)	10.53	10.48	10.62	8079
4,4'-DDE	14.63	14.57	14.71	400
Endrin	15.79	15.74	15.88	25987
4,4'-DDD	15.93	15.87	16.02	207
4,4'-DDT	16.53	16.48	16.62	45439
Methoxychlor	17.55	17.50	17.64	50270
Endrin ketone	18.73	18.68	18.82	1493
Endrin aldehyde	17.19	17.14	17.28	553

4,4'-DDT % breakdown (1): 1.32 Endrin % breakdown (1): 7.30

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHI Date Analyzed :05/25/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :2157

EPA Sample No.(PEM): PEMHJ Date Analyzed :05/25/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :2323

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA

4,4'-DDT % breakdown (1): 1.32 Endrin % breakdown (1): 7.30

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHJ Date Analyzed :05/25/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :2157

EPA Sample No.(PEM): PEMHJ Date Analyzed :05/25/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :2323

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
alpha-BHC	9.73	9.68	9.82	4635
beta-BHC	10.88	10.82	10.96	2168
gamma-BHC (Lindane)	10.65	10.59	10.73	4518
4,4'-DDE	14.93	14.88	15.02	220
Endrin	15.93	15.88	16.02	15430
4,4'-DDD	16.18	16.12	16.26	140
4,4'-DDT	16.85	16.79	16.93	26943
Methoxychlor	18.30	18.25	18.39	30737
Endrin ketone	18.85	18.80	18.94	914
Endrin aldehyde	17.11	17.06	17.20	445

4,4'-DDT % breakdown (1): 1.32 Endrin % breakdown (1): 8.09

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHJ Date Analyzed :05/25/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :2157

EPA Sample No.(PEM): PEMHJ Date Analyzed :05/25/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :2323

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA

4,4'-DDT % breakdown (1): 1.32 Endrin % breakdown (1): 8.09

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHK Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :0510

EPA Sample No.(PEM): PEMHL Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :0608

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
alpha-BHC	9.68	9.61	9.75	8875
beta-BHC	10.74	10.68	10.81	3434
gamma-BHC (Lindane)	10.51	10.44	10.57	8371
4,4'-DDE	14.60	14.53	14.67	452
Endrin	15.77	15.69	15.83	27249
4,4'-DDD	15.91	15.84	15.98	318
4,4'-DDT	16.51	16.44	16.58	48609
Methoxychlor	17.54	17.47	17.61	57574
Endrin ketone	18.70	18.63	18.77	1411
Endrin aldehyde	17.16	17.09	17.23	475

4,4'-DDT % breakdown (1): 1.56 Endrin % breakdown (1): 6.47

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHK Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :0510

EPA Sample No.(PEM): PEMHL Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :0608

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA

4,4'-DDT % breakdown (1): 1.56 Endrin % breakdown (1): 6.47

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHL Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :0510

EPA Sample No.(PEM): PEMHL Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :0608

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
alpha-BHC	9.71	9.64	9.78	4795
beta-BHC	10.86	10.79	10.93	2129
gamma-BHC (Lindane)	10.62	10.55	10.69	4680
4,4'-DDE	14.91	14.84	14.98	287
Endrin	15.90	15.84	15.97	16031
4,4'-DDD	16.16	16.09	16.23	324
4,4'-DDT	16.82	16.75	16.89	27991
Methoxychlor	18.28	18.21	18.35	33570
Endrin ketone	18.82	18.75	18.89	868
Endrin aldehyde	17.09	17.02	17.16	309

4,4'-DDT % breakdown (1): 2.14 Endrin % breakdown (1): 6.84

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHL Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :0510

EPA Sample No.(PEM): PEMHL Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :0608

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA

4,4'-DDT % breakdown (1): 2.14 Endrin % breakdown (1): 6.84

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHM Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB4 Time Analyzed :1156

EPA Sample No.(PEM): PEMHN Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM4 Time Analyzed :1254

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
alpha-BHC	9.63	9.61	9.75	9216
beta-BHC	10.70	10.68	10.81	3541
gamma-BHC (Lindane)	10.46	10.44	10.57	8721
4,4'-DDE	14.55	14.53	14.67	657
Endrin	15.71	15.69	15.83	27969
4,4'-DDD				
4,4'-DDT	16.46	16.44	16.58	47321
Methoxychlor	17.50	17.47	17.61	53541
Endrin ketone	18.65	18.63	18.77	1439
Endrin aldehyde	17.11	17.09	17.23	530

4,4'-DDT % breakdown (1): 1.37 Endrin % breakdown (1): 6.58

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHM Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB4 Time Analyzed :1156

EPA Sample No.(PEM): PEMHN Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM4 Time Analyzed :1254

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA

4,4'-DDT % breakdown (1): 1.37 Endrin % breakdown (1): 6.58

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHN Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB4 Time Analyzed :1156

EPA Sample No.(PEM): PEMHN Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM4 Time Analyzed :1254

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
alpha-BHC	9.66	9.64	9.78	5024
beta-BHC	10.81	10.79	10.93	2160
gamma-BHC (Lindane)	10.58	10.55	10.69	4906
4,4'-DDE	14.86	14.84	14.98	487
Endrin	15.86	15.79	15.93	16469
4,4'-DDD	16.13	16.09	16.23	509
4,4'-DDT	16.78	16.75	16.89	27769
Methoxychlor	18.24	18.21	18.35	31611
Endrin ketone	18.77	18.75	18.89	897
Endrin aldehyde	17.04	17.02	17.16	326

4,4'-DDT % breakdown (1): 3.46 Endrin % breakdown (1): 6.91

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHN Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB4 Time Analyzed :1156

EPA Sample No.(PEM): PEMHN Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM4 Time Analyzed :1254

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA

4,4'-DDT % breakdown (1): 3.46 Endrin % breakdown (1): 6.91

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHO Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB5 Time Analyzed :1841

EPA Sample No.(PEM): PEMHP Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM5 Time Analyzed :1939

PEM COMPOUND	RT	RT WINDOW FROM	TO	AREA
alpha-BHC	9.61	9.61	9.75	9321
beta-BHC	10.68	10.68	10.81	3333
gamma-BHC (Lindane)	10.44	10.44	10.57	8770
4,4'-DDE	14.53	14.53	14.67	913
Endrin	15.69	15.69	15.83	28956
4,4'-DDD	15.89	15.84	15.98	1425
4,4'-DDT	16.44	16.44	16.58	48626
Methoxychlor	17.49	17.47	17.61	57491
Endrin ketone	18.63	18.63	18.77	1415
Endrin aldehyde	17.09	17.09	17.23	472

4,4'-DDT % breakdown (1): 4.59 Endrin % breakdown (1): 6.12

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHO Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB5 Time Analyzed :1841

EPA Sample No.(PEM): PEMHP Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM5 Time Analyzed :1939

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA

4,4'-DDT % breakdown (1): 4.59 Endrin % breakdown (1): 6.12

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHP Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB5 Time Analyzed :1841

EPA Sample No.(PEM): PEMHP Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM5 Time Analyzed :1939

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
alpha-BHC	9.64	9.64	9.78	5101
beta-BHC	10.79	10.79	10.93	2087
gamma-BHC (Lindane)	10.56	10.55	10.69	4925
4,4'-DDE	14.85	14.84	14.98	456
Endrin	15.84	15.79	15.93	17223
4,4'-DDD	16.12	16.09	16.23	886
4,4'-DDT	16.76	16.75	16.89	28586
Methoxychlor	18.23	18.21	18.35	32108
Endrin ketone	18.75	18.75	18.89	866
Endrin aldehyde	17.02	17.02	17.16	494

4,4'-DDT % breakdown (1): 4.48 Endrin % breakdown (1): 7.32

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

EPA Sample No.(PIBLK): PIBLKHP Date Analyzed :05/26/10

Lab Sample ID (PIBLK): SEQ-CCB5 Time Analyzed :1841

EPA Sample No.(PEM): PEMHP Date Analyzed :05/26/10

Lab Sample ID (PEM): SEQ-PEM5 Time Analyzed :1939

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA

4,4'-DDT % breakdown (1): 4.48 Endrin % breakdown (1): 7.32

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJC Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :0356

EPA Sample No.(PEM): PEMJD Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :0454

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.81	15.75	15.89	142
4,4'-DDE	14.51	14.45	14.59	235
4,4'-DDT	16.42	16.35	16.49	13845
Endrin	15.67	15.61	15.74	10775
Endrin Aldehyde	17.06	17.00	17.14	200
Endrin Ketone	18.60	18.53	18.67	383

4,4'-DDT % breakdown (1): 2.65 Endrin % breakdown (1): 5.13

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJD Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :0356

EPA Sample No.(PEM): PEMJD Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :0454

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.97	15.91	16.05	104
4,4'-DDE	14.73	14.66	14.80	169
4,4'-DDT	16.64	16.57	16.71	12158
Endrin	15.72	15.65	15.79	9115
Endrin Aldehyde	16.90	16.83	16.97	211
Endrin Ketone	18.63	18.56	18.70	280

4,4'-DDT % breakdown (1): 2.20 Endrin % breakdown (1): 5.11

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJE Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :0914

EPA Sample No.(PEM): PEMJF Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :1012

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.81	15.75	15.89	242
4,4'-DDE	14.51	14.45	14.59	236
4,4'-DDT	16.42	16.35	16.49	15265
Endrin	15.67	15.61	15.74	11295
Endrin Aldehyde	17.06	17.00	17.14	224
Endrin Ketone	18.60	18.53	18.67	270

4,4'-DDT % breakdown (1): 3.04 Endrin % breakdown (1): 4.19

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKJF Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :0914

EPA Sample No.(PEM): PEMJF Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :1012

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.98	15.91	16.05	148
4,4'-DDE	14.73	14.66	14.80	171
4,4'-DDT	16.64	16.57	16.71	13517
Endrin	15.72	15.65	15.79	9463
Endrin Aldehyde	16.91	16.83	16.97	130
Endrin Ketone	18.63	18.56	18.70	225

4,4'-DDT % breakdown (1): 2.30 Endrin % breakdown (1): 3.62

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKKO Date Analyzed :06/04/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :1817

EPA Sample No.(PEM): PEMKP Date Analyzed :06/04/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :1915

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.54	15.48	15.62	198
4,4'-DDE	14.25	14.19	14.32	241
4,4'-DDT	16.14	16.08	16.22	14102
Endrin	15.39	15.33	15.47	11577
Endrin Aldehyde	16.77	16.71	16.86	228
Endrin Ketone	18.30	18.24	18.38	413

4,4'-DDT % breakdown (1): 3.02 Endrin % breakdown (1): 5.25

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKKP Date Analyzed :06/04/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :1817

EPA Sample No.(PEM): PEMKP Date Analyzed :06/04/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :1915

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.74	15.67	15.81	125
4,4'-DDE	14.50	14.43	14.57	166
4,4'-DDT	16.41	16.33	16.47	12160
Endrin	15.47	15.40	15.54	9847
Endrin Aldehyde	16.65	16.59	16.73	156
Endrin Ketone	18.37	18.30	18.44	210

4,4'-DDT % breakdown (1): 2.34 Endrin % breakdown (1): 3.58

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKKQ Date Analyzed :06/04/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :2208

EPA Sample No.(PEM): PEMKR Date Analyzed :06/04/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :2306

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.54	15.48	15.62	191
4,4'-DDE	14.24	14.19	14.32	243
4,4'-DDT	16.14	16.08	16.22	14576
Endrin	15.39	15.33	15.47	11915
Endrin Aldehyde	16.77	16.71	16.86	334
Endrin Ketone	18.30	18.24	18.38	367

4,4'-DDT % breakdown (1): 2.89 Endrin % breakdown (1): 5.56

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

EPA Sample No.(PIBLK): PIBLKKR Date Analyzed :06/04/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :2208

EPA Sample No.(PEM): PEMKR Date Analyzed :06/04/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :2306

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.75	15.67	15.81	124
4,4'-DDE	14.50	14.43	14.57	161
4,4'-DDT	16.41	16.33	16.47	12544
Endrin	15.47	15.40	15.54	10087
Endrin Aldehyde	16.66	16.59	16.73	160
Endrin Ketone	18.37	18.30	18.44	199

4,4'-DDT % breakdown (1): 2.22 Endrin % breakdown (1): 3.44

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

c. Analytical Sequence (Form VIII)

For all GC columns, all instruments, in chronological order by GC column and instrument

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:20.84 TCX:8.19
SURROGATE RT FROM CONTINUING CALIBRATION DCB:20.79 TCX:8.15

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMHA	0E24008-PEM1	05/24/10	1518	20.84	8.18
02	INDC1HA	0E24008-CAL1	05/24/10	1546	20.84	8.19
03	INDC2HA	0E24008-CAL2	05/24/10	1615	20.83	8.18
04	INDC3HA	0E24008-CAL3	05/24/10	1644	20.84	8.18
05	INDC4HA	0E24008-CAL4	05/24/10	1713	20.84	8.18
06	INDC5HA	0E24008-CAL5	05/24/10	1742	20.84	8.19
07	TOXAPH3HA	0E24008-ARC1	05/24/10	1811	20.83	8.18
08	CHLORO3HA	0E24008-ARC2	05/24/10	1840	20.83	8.18
09	PIBLKHI	SEQ-CCB2	05/25/10	2157	20.82	8.17
10	INDC3HJ	SEQ-CCV3	05/25/10	2254	20.82	8.17
11	PEMHJ	SEQ-PEM2	05/25/10	2323	20.82	8.17
12	PBJLCS	0051830-BS1	05/26/10	0021	20.82	8.17
13	SS50-0-1MS	0051830-MS1	05/26/10	0050	20.82	8.17
14	SS23-00-01	1005130-01	05/26/10	0148	20.81	8.15
15	SB23-1.5-2	1005130-02	05/26/10	0217	20.80	8.14
16	SS24-0-1	1005130-03	05/26/10	0246	20.79	8.14
17	SB24-3-4	1005130-04	05/26/10	0315	20.79	8.14
18	SS49-0-1	1005130-05	05/26/10	0344	20.79	8.15
19	SB49-11-12	1005130-06	05/26/10	0412	20.79	8.15
20	PIBLKHK	SEQ-CCB3	05/26/10	0510	20.79	8.14
21	INDC3HL	SEQ-CCV4	05/26/10	0539	20.79	8.15
22	PEMHL	SEQ-PEM3	05/26/10	0608	20.79	8.14
23	SS50-0-1	1005130-07	05/26/10	0637	20.78	8.11
24	SB47-14-15	1005130-08	05/26/10	0706	20.74	8.08
25	SS47-0-1	1005130-09	05/26/10	0735	20.74	8.10
26	SS11-0-1	1005130-10	05/26/10	0804	20.74	8.11
27	SB11-11-12	1005130-11	05/26/10	0833	20.74	8.10
28	SB48-7-8	1005130-12	05/26/10	0902	20.74	8.10
29	SS48-0-1	1005130-13	05/26/10	0931	20.74	8.10
30	SS18-0-1	1005130-14	05/26/10	1000	20.73	8.10
31	SB18-12-13	1005130-15	05/26/10	1029	20.74	8.10
32	SS25-0-1	1005130-16	05/26/10	1058	20.74	8.10

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:20.84 TCX:8.19
SURROGATE RT FROM CONTINUING CALIBRATION DCB:20.79 TCX:8.15

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PIBLKHM	SEQ-CCB4	05/26/10	1156	20.75	8.10
02	INDC3HN	SEQ-CCV5	05/26/10	1225	20.74	8.10
03	PEMHN	SEQ-PEM4	05/26/10	1254	20.74	8.10
04	SB08-6-7	1005130-19	05/26/10	1420	20.74	8.10
05	PIBLKHO	SEQ-CCB5	05/26/10	1841	20.73	8.08
06	INDC3HP	SEQ-CCV6	05/26/10	1910	20.72	8.08
07	PEMHP	SEQ-PEM5	05/26/10	1939	20.73	8.08
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:21.52 TCX:8.07
SURROGATE RT FROM CONTINUING CALIBRATION DCB:21.48 TCX:8.04

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMHA	0E24008-PEM1	05/24/10	1518	21.52	8.08
02	INDC1HA	0E24008-CAL1	05/24/10	1546	21.52	8.07
03	INDC2HA	0E24008-CAL2	05/24/10	1615	21.52	8.07
04	INDC3HA	0E24008-CAL3	05/24/10	1644	21.52	8.07
05	INDC4HA	0E24008-CAL4	05/24/10	1713	21.52	8.08
06	INDC5HA	0E24008-CAL5	05/24/10	1742	21.52	8.07
07	TOXAPH3HA	0E24008-ARC1	05/24/10	1811	21.52	8.07
08	CHLORO3HA	0E24008-ARC2	05/24/10	1840	21.52	8.07
09	PIBLKHJ	SEQ-CCB2	05/25/10	2157	21.51	8.06
10	INDC3HJ	SEQ-CCV3	05/25/10	2254	21.50	8.06
11	PEMHJ	SEQ-PEM2	05/25/10	2323	21.50	8.06
12	PBJLCS	0051830-BS1	05/26/10	0021	21.50	8.06
13	SS50-0-1MS	0051830-MS1	05/26/10	0050	21.50	8.06
14	SS23-00-01	1005130-01	05/26/10	0148	21.49	8.05
15	SB23-1.5-2	1005130-02	05/26/10	0217	21.48	8.04
16	SS24-0-1	1005130-03	05/26/10	0246	21.48	8.03
17	SB24-3-4	1005130-04	05/26/10	0315	21.47	8.03
18	SS49-0-1	1005130-05	05/26/10	0344	21.47	8.04
19	SB49-11-12	1005130-06	05/26/10	0412	21.47	8.04
20	PIBLKHL	SEQ-CCB3	05/26/10	0510	21.48	8.04
21	INDC3HL	SEQ-CCV4	05/26/10	0539	21.48	8.04
22	PEMHL	SEQ-PEM3	05/26/10	0608	21.48	8.04
23	SS50-0-1	1005130-07	05/26/10	0637	21.46	8.00
24	SB47-14-15	1005130-08	05/26/10	0706	21.42	7.98
25	SS47-0-1	1005130-09	05/26/10	0735	21.42	7.99
26	SS11-0-1	1005130-10	05/26/10	0804	21.42	8.00
27	SB11-11-12	1005130-11	05/26/10	0833	21.42	7.99
28	SB48-7-8	1005130-12	05/26/10	0902	21.42	8.00
29	SS48-0-1	1005130-13	05/26/10	0931	21.42	8.00
30	SS18-0-1	1005130-14	05/26/10	1000	21.41	8.00
31	SB18-12-13	1005130-15	05/26/10	1029	21.42	8.00
32	SS25-0-1	1005130-16	05/26/10	1058	21.42	8.00

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/24/10 05/24/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:21.52 TCX:8.07
SURROGATE RT FROM CONTINUING CALIBRATION DCB:21.48 TCX:8.04

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PIBLKHN	SEQ-CCB4	05/26/10	1156	21.42	8.00
02	INDC3HN	SEQ-CCV5	05/26/10	1225	21.42	8.00
03	PEMHN	SEQ-PEM4	05/26/10	1254	21.43	8.00
04	SB08-6-7	1005130-19	05/26/10	1420	21.42	8.00
05	PIBLKHP	SEQ-CCB5	05/26/10	1841	21.41	7.98
06	INDC3HP	SEQ-CCV6	05/26/10	1910	21.40	7.98
07	PEMHP	SEQ-PEM5	05/26/10	1939	21.40	7.98
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:20.70 TCX:8.08
SURROGATE RT FROM CONTINUING CALIBRATION DCB:20.41 TCX:7.84

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMHA	0E27012-PEM1	05/28/10	1749	20.70	8.08
02	INDC1HA	0E27012-CAL1	05/28/10	1818	20.70	8.09
03	INDC2HA	0E27012-CAL2	05/28/10	1847	20.70	8.08
04	INDC3HA	0E27012-CAL3	05/28/10	1916	20.70	8.09
05	INDC4HA	0E27012-CAL4	05/28/10	1945	20.70	8.08
06	INDC5HA	0E27012-CAL5	05/28/10	2014	20.70	8.08
07	TOXAPH3HA	0E27012-ARC1	05/28/10	2043	20.71	8.08
08	CHLORO3HA	0E27012-ARC2	05/28/10	2111	20.71	8.08
09	PIBLKJC	SEQ-CCB1	05/29/10	0356	20.70	8.08
10	INDC3JD	SEQ-CCV1	05/29/10	0425	20.70	8.08
11	PEMJD	SEQ-PEM1	05/29/10	0454	20.70	8.08
12	PBLKBJ	0051830-BLK1	05/29/10	0523	20.70	8.08
13	SS50-0-1MSD	0051830-MSD1	05/29/10	0621	20.70	8.09
14	PIBLKJE	SEQ-CCB2	05/29/10	0914	20.70	8.08
15	INDC3JF	SEQ-CCV2	05/29/10	0943	20.70	8.08
16	PEMJF	SEQ-PEM2	05/29/10	1012	20.70	8.08
17	PIBLKKO	SEQ-CCB2	06/04/10	1817	20.41	7.84
18	INDC3KP	SEQ-CCV2	06/04/10	1846	20.41	7.84
19	PEMKP	SEQ-PEM2	06/04/10	1915	20.40	7.84
20	SB25-3-4	1005130-17	06/04/10	1944	20.41	7.84
21	SS08-0-1	1005130-18	06/04/10	2013	20.40	7.83
22	SB08-6-7RE	1005130-19RE	06/04/10	2042	20.40	7.86
23	SS05-0-1	1005130-20	06/04/10	2111	20.41	7.84
24	PIBLKKQ	SEQ-CCB3	06/04/10	2208	20.40	7.83
25	INDC3KR	SEQ-CCV3	06/04/10	2237	20.40	7.83
26	PEMKR	SEQ-PEM3	06/04/10	2306	20.40	7.84
27						
28						
29						
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/29/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:21.25 TCX:7.89
SURROGATE RT FROM CONTINUING CALIBRATION DCB:20.98 TCX:7.67

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMHA	0E27012-PEM1	05/28/10	1749	21.25	7.89
02	INDC1HA	0E27012-CAL1	05/28/10	1818	21.25	7.89
03	INDC2HA	0E27012-CAL2	05/28/10	1847	21.25	7.89
04	INDC3HA	0E27012-CAL3	05/28/10	1916	21.25	7.89
05	INDC4HA	0E27012-CAL4	05/28/10	1945	21.25	7.89
06	INDC5HA	0E27012-CAL5	05/28/10	2014	21.25	7.89
07	TOXAPH3HA	0E27012-ARC1	05/28/10	2043	21.25	7.89
08	CHLORO3HA	0E27012-ARC2	05/28/10	2111	21.25	7.90
09	PIBLKJD	SEQ-CCB1	05/29/10	0356	21.25	7.89
10	INDC3JD	SEQ-CCV1	05/29/10	0425	21.25	7.89
11	PEMJD	SEQ-PEM1	05/29/10	0454	21.25	7.89
12	PBLKBJ	0051830-BLK1	05/29/10	0523	21.25	7.89
13	SS50-0-1MSD	0051830-MSD1	05/29/10	0621	21.25	7.89
14	PIBLKJF	SEQ-CCB2	05/29/10	0914	21.25	7.89
15	INDC3JF	SEQ-CCV2	05/29/10	0943	21.25	7.89
16	PEMJF	SEQ-PEM2	05/29/10	1012	21.25	7.89
17	PIBLKKP	SEQ-CCB2	06/04/10	1817	20.98	7.68
18	INDC3KP	SEQ-CCV2	06/04/10	1846	20.98	7.67
19	PEMKP	SEQ-PEM2	06/04/10	1915	20.97	7.67
20	SB25-3-4	1005130-17	06/04/10	1944	20.98	7.67
21	SS08-0-1	1005130-18	06/04/10	2013	20.97	7.67
22	SB08-6-7RE	1005130-19RE	06/04/10	2042	20.97	7.70
23	SS05-0-1	1005130-20	06/04/10	2111	20.97	7.67
24	PIBLKKR	SEQ-CCB3	06/04/10	2208	20.97	7.67
25	INDC3KR	SEQ-CCV3	06/04/10	2237	20.97	7.67
26	PEMKR	SEQ-PEM3	06/04/10	2306	20.97	7.67
27						
28						
29						
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

d. Identification Summary for Single Component Analytes (Form X)

For all samples with positively identified single component analytes, in order by increasing Client Sample ID number.

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBJLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-BS1 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.45	12.39	12.54	3.9	
	2	12.47	12.42	12.56	3.8	2.6
beta-BHC	1	10.77	10.71	10.86	4.5	
	2	10.88	10.82	10.96	3.9	14.3
alpha-BHC	1	9.71	9.65	9.79	4.2	
	2	9.73	9.68	9.82	4.1	2.4
delta-BHC	1	11.21	11.15	11.29	4.9	
	2	11.59	11.53	11.67	4.6	6.3
gamma-BHC (Lindane)	1	10.53	10.48	10.62	4.0	
	2	10.65	10.59	10.73	3.8	5.1
4,4'-DDD	1	15.93	15.87	16.02	11	
	2	16.18	16.12	16.26	11	0.0
4,4'-DDE	1	14.62	14.57	14.71	11	
	2	14.93	14.88	15.02	10	9.5
4,4'-DDT	1	16.53	16.48	16.62	10	
	2	16.84	16.79	16.93	10	0.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBJLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-BS1 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	15.28	15.23	15.37	11	
	2	15.27	15.22	15.36	11	0.0
Endosulfan I	1	14.75	14.70	14.84	4.0	
	2	14.67	14.62	14.76	3.9	2.5
Endosulfan II	1	16.28	16.23	16.37	11	
	2	16.39	16.34	16.48	10	9.5
Endosulfan sulfate	1	18.13	18.07	18.21	11	
	2	17.70	17.65	17.79	10	9.5
Endrin	1	15.79	15.74	15.88	11	
	2	15.93	15.88	16.02	10	9.5
Endrin Aldehyde	1	17.19	17.14	17.28	6.8	
	2	17.11	17.06	17.20	6.8	0.0
Heptachlor	1	11.73	11.67	11.81	4.8	
	2	11.72	11.66	11.80	4.6	4.2
Heptachlor Epoxide	1	13.87	13.81	13.95	4.7	
	2	13.80	13.74	13.88	4.4	6.6

FORM X PEST-1

10A

EPA SAMPLE NO.

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

PBJLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-BS1 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	17.55	17.50	17.64	13	
	2	18.30	18.25	18.39	13	0.0
Endrin Ketone	1	18.73	18.68	18.82	12	
	2	18.85	18.80	18.94	11	8.7
gamma-Chlordane	1	14.15	14.10	14.24	4.2	
	2	14.22	14.17	14.31	5.7	30.3
alpha-Chlordane	1	14.45	14.39	14.53	4.9	
	2	14.55	14.49	14.63	4.6	6.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB08-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-19 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.81	10.68	10.81	10	
	2	10.86	10.79	10.93	9.0	10.5
4,4'-DDD	1	15.86	15.84	15.98	0.98	
	2	16.11	16.09	16.23	1.0	2.0
4,4'-DDE	1	14.55	14.53	14.67	0.54	
	2	14.86	14.84	14.98	0.55	1.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB11-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-11 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.81	10.68	10.81	2.8	
	2	10.86	10.79	10.93	1.8	43.5
delta-BHC	1	11.14	11.11	11.25	0.27	
	2	11.54	11.49	11.63	0.66	83.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB18-12-13

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-15 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.80	10.68	10.81	6.0	
	2	10.86	10.79	10.93	3.2	60.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB23-1.5-2

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-02 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.83	10.71	10.86	1.3	
	2	10.84	10.82	10.96	0.47	93.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB25-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-17 Date(s) Analyzed: 06/04/10 06/04/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.36	10.34	10.48	0.47	
	2	10.46	10.40	10.54	0.53	12.0
delta-BHC	1	10.85	10.77	10.91	0.25	
	2	11.21	11.11	11.24	0.36	36.1
Heptachlor	1	11.38	11.29	11.44	0.38	
	2	11.28	11.22	11.36	0.28	30.3
gamma-Chlordane	1	13.81	13.70	13.84	7.5	
	2	13.83	13.71	13.85	1.1	148.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB47-14-15

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-08 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
alpha-BHC	1	9.72	9.61	9.75	0.70	
	2	9.71	9.64	9.78	0.30	80.0
delta-BHC	1	11.21	11.11	11.25	1.5	
	2	11.60	11.49	11.63	5.5	114.3
gamma-BHC (Lindane)	1	10.51	10.44	10.57	2.5	
	2	10.66	10.55	10.69	0.52	131.1
Heptachlor Epoxide	1	13.88	13.77	13.91	0.55	
	2	13.80	13.70	13.84	0.47	15.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB48-7-8

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-12 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.81	10.68	10.81	6.5	
	2	10.86	10.79	10.93	3.6	57.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB49-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-06 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.83	10.71	10.86	3.2	
	2	10.84	10.82	10.96	0.61	136.0
4,4'-DDT	1	16.51	16.48	16.62	0.72	
	2	16.81	16.79	16.93	0.91	23.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS05-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-20 Date(s) Analyzed: 06/04/10 06/04/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.36	10.34	10.48	0.59	
	2	10.46	10.40	10.54	0.65	9.7
Endosulfan II	1	15.94	15.81	15.95	0.81	
	2	15.94	15.86	16.00	0.86	6.0
Heptachlor	1	11.37	11.29	11.44	0.44	
	2	11.28	11.22	11.36	0.35	22.8
gamma-Chlordane	1	13.81	13.70	13.84	1.6	
	2	13.82	13.71	13.85	1.5	6.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS08-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-18 Date(s) Analyzed: 06/04/10 06/04/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDD	1	15.54	15.48	15.62	20	
	2	15.74	15.67	15.81	21	4.9
4,4'-DDE	1	14.24	14.19	14.32	20	
	2	14.50	14.43	14.57	21	4.9
4,4'-DDT	1	16.14	16.08	16.22	3.7	
	2	16.41	16.33	16.47	4.0	7.8
Endosulfan sulfate	1	17.75	17.64	17.79	0.96	
	2	17.20	17.17	17.31	0.66	37.0
Endrin Aldehyde	1	16.84	16.71	16.86	1.1	
	2	16.64	16.59	16.73	1.2	8.7
Heptachlor	1	11.41	11.29	11.44	1.0	
	2	11.28	11.22	11.36	0.44	77.8
Heptachlor Epoxide	1	13.48	13.42	13.56	0.92	
	2	13.29	13.29	13.43	0.28	106.7
gamma-Chlordane	1	13.81	13.70	13.84	0.29	
	2	13.81	13.71	13.85	2.1	151.5

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS11-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-10 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.81	10.68	10.81	1.0	
	2	10.80	10.79	10.93	1.3	26.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS18-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-14 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.78	10.68	10.81	13	
	2	10.85	10.79	10.93	3.4	117.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS23-00-01

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-01 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.84	10.71	10.86	4.2	
	2	10.87	10.82	10.96	0.54	154.4
4,4'-DDE	1	14.61	14.57	14.71	2.3	
	2	14.92	14.88	15.02	1.9	19.0
4,4'-DDT	1	16.52	16.48	16.62	1.3	
	2	16.83	16.79	16.93	1.4	7.4
Endosulfan sulfate	1	18.15	18.07	18.21	0.68	
	2	17.68	17.65	17.79	0.62	9.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS24-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-03 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.83	10.71	10.86	0.75	
	2	10.87	10.82	10.96	0.60	22.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS25-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-16 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.81	10.68	10.81	3.8	
	2	10.86	10.79	10.93	3.1	20.3
delta-BHC	1	11.14	11.11	11.25	0.21	
	2	11.55	11.49	11.63	3.2	175.4
4,4'-DDT	1	16.50	16.44	16.58	2.5	
	2	16.88	16.75	16.89	5.5	75.0
Dieldrin	1	15.32	15.19	15.32	1.9	
	2	15.26	15.18	15.31	1.3	37.5
Endosulfan I	1	14.77	14.65	14.79	0.25	
	2	14.65	14.57	14.71	0.67	91.3
Endosulfan II	1	16.25	16.18	16.32	11	
	2	16.29	16.29	16.43	11	0.0
Endrin	1	15.79	15.69	15.83	0.39	
	2	15.90	15.84	15.97	1.3	107.7
gamma-Chlordane	1	14.12	14.05	14.19	5.7	
	2	14.18	14.13	14.27	2.0	96.1

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS47-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-09 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.78	10.68	10.81	1.8	
	2	10.83	10.79	10.93	1.6	11.8
4,4'-DDE	1	14.55	14.53	14.67	18	
	2	14.86	14.84	14.98	17	5.7
4,4'-DDT	1	16.45	16.44	16.58	2.5	
	2	16.77	16.75	16.89	1.8	32.6
Heptachlor Epoxide	1	13.90	13.77	13.91	0.24	
	2	13.79	13.70	13.84	0.49	68.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS48-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-13 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.79	10.68	10.81	9.4	
	2	10.86	10.79	10.93	3.5	91.5
4,4'-DDT	1	16.46	16.44	16.58	2.4	
	2	16.77	16.75	16.89	2.1	13.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS49-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-05 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	10.82	10.71	10.86	2.8	
	2	10.87	10.82	10.96	1.5	60.5
Endrin Aldehyde	1	17.23	17.14	17.28	0.70	
	2	17.06	17.06	17.20	0.88	22.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS50-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-07 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.38	12.35	12.49	3.4	
	2	12.42	12.38	12.52	1.2	95.6
beta-BHC	1	10.73	10.68	10.81	1.3	
	2	10.85	10.79	10.93	5.8	126.8
alpha-BHC	1	9.61	9.61	9.75	0.96	
	2	9.70	9.64	9.78	1.7	55.6
delta-BHC	1	11.18	11.11	11.25	0.40	
	2	11.55	11.49	11.63	0.60	40.0
4,4'-DDD	1	15.88	15.84	15.98	0.67	
	2	16.20	16.09	16.23	2.1	103.2
Endosulfan sulfate	1	18.11	18.03	18.17	2.5	
	2	17.67	17.61	17.75	20	155.6
Endrin	1	15.72	15.69	15.83	13	
	2	15.95	15.84	15.97	0.92	173.6
Heptachlor	1	11.73	11.63	11.77	0.75	
	2	11.74	11.62	11.76	1.4	60.5

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS50-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 1005130-07 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Heptachlor Epoxide	1	13.82	13.77	13.91	1.3	
	2	13.75	13.70	13.84	0.65	66.7
Endrin Ketone	1	18.75	18.63	18.77	3.6	
	2	18.85	18.75	18.89	0.74	131.8
gamma-Chlordane	1	14.16	14.05	14.19	0.80	
	2	14.20	14.13	14.27	5.4	148.4
alpha-Chlordane	1	14.49	14.35	14.49	1.4	
	2	14.58	14.45	14.59	1.3	7.4
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS50-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-MS1 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.44	12.39	12.54	6.2	
	2	12.47	12.42	12.56	5.0	21.4
beta-BHC	1	10.77	10.71	10.86	6.4	
	2	10.88	10.82	10.96	6.0	6.4
alpha-BHC	1	9.70	9.65	9.79	5.3	
	2	9.73	9.68	9.82	6.5	20.3
delta-BHC	1	11.21	11.15	11.29	5.2	
	2	11.59	11.53	11.67	5.3	1.9
gamma-BHC (Lindane)	1	10.53	10.48	10.62	5.6	
	2	10.64	10.59	10.73	4.5	21.8
4,4'-DDD	1	15.93	15.87	16.02	14	
	2	16.18	16.12	16.26	14	0.0
4,4'-DDE	1	14.62	14.57	14.71	12	
	2	14.93	14.88	15.02	13	8.0
4,4'-DDT	1	16.53	16.48	16.62	11	
	2	16.84	16.79	16.93	10	9.5

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS50-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-MS1 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	15.28	15.23	15.37	12	
	2	15.27	15.22	15.36	16	28.6
Endosulfan I	1	14.75	14.70	14.84	4.6	
	2	14.66	14.62	14.76	4.9	6.3
Endosulfan II	1	16.28	16.23	16.37	12	
	2	16.39	16.34	16.48	14	15.4
Endosulfan sulfate	1	18.13	18.07	18.21	29	
	2	17.70	17.65	17.79	31	6.7
Endrin	1	15.79	15.74	15.88	14	
	2	15.93	15.88	16.02	13	7.4
Endrin Aldehyde	1	17.19	17.14	17.28	7.9	
	2	17.11	17.06	17.20	7.5	5.2
Heptachlor	1	11.72	11.67	11.81	5.6	
	2	11.71	11.66	11.80	6.1	8.5
Heptachlor Epoxide	1	13.86	13.81	13.95	6.0	
	2	13.80	13.74	13.88	5.7	5.1

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS50-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-MS1 Date(s) Analyzed: 05/26/10 05/26/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	17.55	17.50	17.64	16	
	2	18.30	18.25	18.39	15	6.4
Endrin Ketone	1	18.73	18.68	18.82	17	
	2	18.85	18.80	18.94	14	19.4
gamma-Chlordane	1	14.14	14.10	14.24	5.0	
	2	14.22	14.17	14.31	11	75.0
alpha-Chlordane	1	14.45	14.39	14.53	6.7	
	2	14.54	14.49	14.63	5.1	27.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS50-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-MSD1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	12.34	12.27	12.41	6.0	
	2	12.28	12.21	12.35	5.2	14.3
beta-BHC	1	10.66	10.59	10.73	4.9	
	2	10.71	10.63	10.77	7.1	36.7
alpha-BHC	1	9.60	9.53	9.67	5.6	
	2	9.55	9.48	9.62	6.2	10.2
delta-BHC	1	11.10	11.02	11.16	5.6	
	2	11.40	11.33	11.47	5.2	7.4
gamma-BHC (Lindane)	1	10.43	10.36	10.50	6.8	
	2	10.46	10.39	10.53	4.7	36.5
4,4'-DDD	1	15.82	15.75	15.89	14	
	2	15.98	15.91	16.05	14	0.0
4,4'-DDE	1	14.52	14.45	14.59	13	
	2	14.73	14.66	14.80	14	7.4
4,4'-DDT	1	16.42	16.35	16.49	11	
	2	16.64	16.57	16.71	11	0.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS50-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-MSD1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	15.17	15.10	15.24	15	
	2	15.07	14.99	15.13	19	23.5
Endosulfan I	1	14.64	14.57	14.71	5.6	
	2	14.46	14.39	14.53	6.4	13.3
Endosulfan II	1	16.16	16.09	16.23	12	
	2	16.18	16.11	16.25	13	8.0
Endosulfan sulfate	1	18.00	17.93	18.07	18	
	2	17.50	17.42	17.56	30	50.0
Endrin	1	15.67	15.61	15.74	18	
	2	15.72	15.65	15.79	15	18.2
Endrin Aldehyde	1	17.07	17.00	17.14	6.8	
	2	16.91	16.83	16.97	7.4	8.4
Heptachlor	1	11.62	11.55	11.69	7.3	
	2	11.53	11.45	11.59	6.4	13.1
Heptachlor Epoxide	1	13.75	13.68	13.82	6.1	
	2	13.60	13.53	13.67	5.6	8.5

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS50-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab Sample ID: 0051830-MSD1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	17.44	17.37	17.52	16	
	2	18.10	18.03	18.17	15	6.4
Endrin Ketone	1	18.60	18.53	18.67	14	
	2	18.63	18.56	18.70	16	13.3
gamma-Chlordane	1	14.04	13.97	14.11	5.3	
	2	14.03	13.95	14.09	9.5	56.8
alpha-Chlordane	1	14.34	14.27	14.40	10	
	2	14.35	14.28	14.42	5.4	59.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

e. Identification Summary for Multicomponent Analytes (Form X) – if applicable

For all samples with positively identified multicomponent analytes, in order by increasing Client Sample ID number.

f. Chromatograms and Data System Printouts

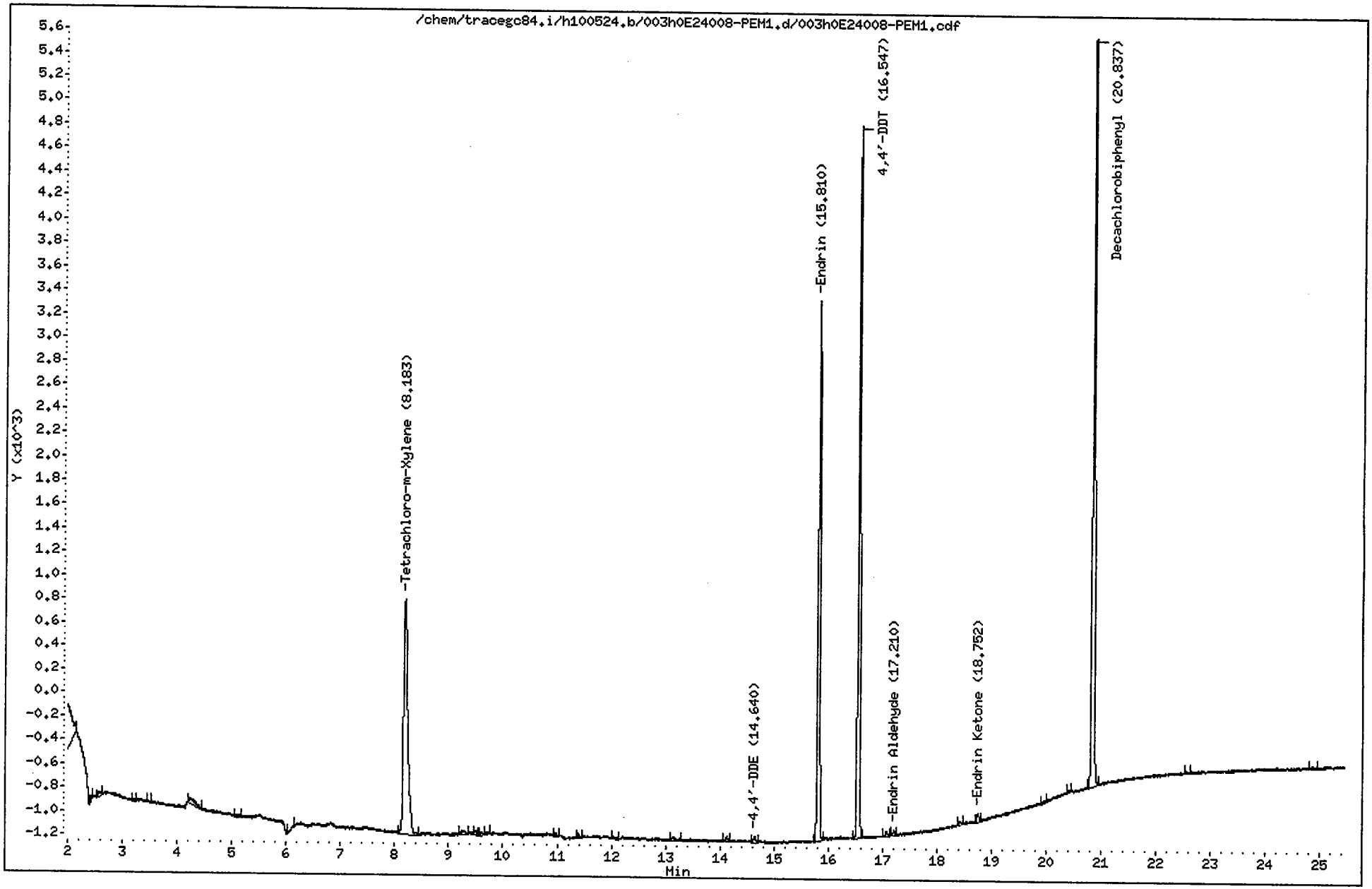
For all methods, standards packages shall include
The following:

- Performance evaluation mixtures (8081 only)
- Initial Calibration Standards
- Second Source Initial Calibration Verifications (if required by client)
- Continuing Calibration Verification Standards
- The quantitation report must include the Client Sample ID number.
- The chromatograms shall include the following: Client Sample ID number for the standard, labeled standard peaks, volume injected, for each standard, date and time of injection, GC column identifier, and GC Instrument identifier

Data File: /chem/tracegc84.i/h100524.b/003h0E24008-PEM1.d
Date : 24-MAY-2010 15:18
Client ID: PEMHA
Sample Info: 0E24008-PEM1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-PEM1 Client Smp Id : PEMHA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 24-MAY-2010 15:18 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : PEMHA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

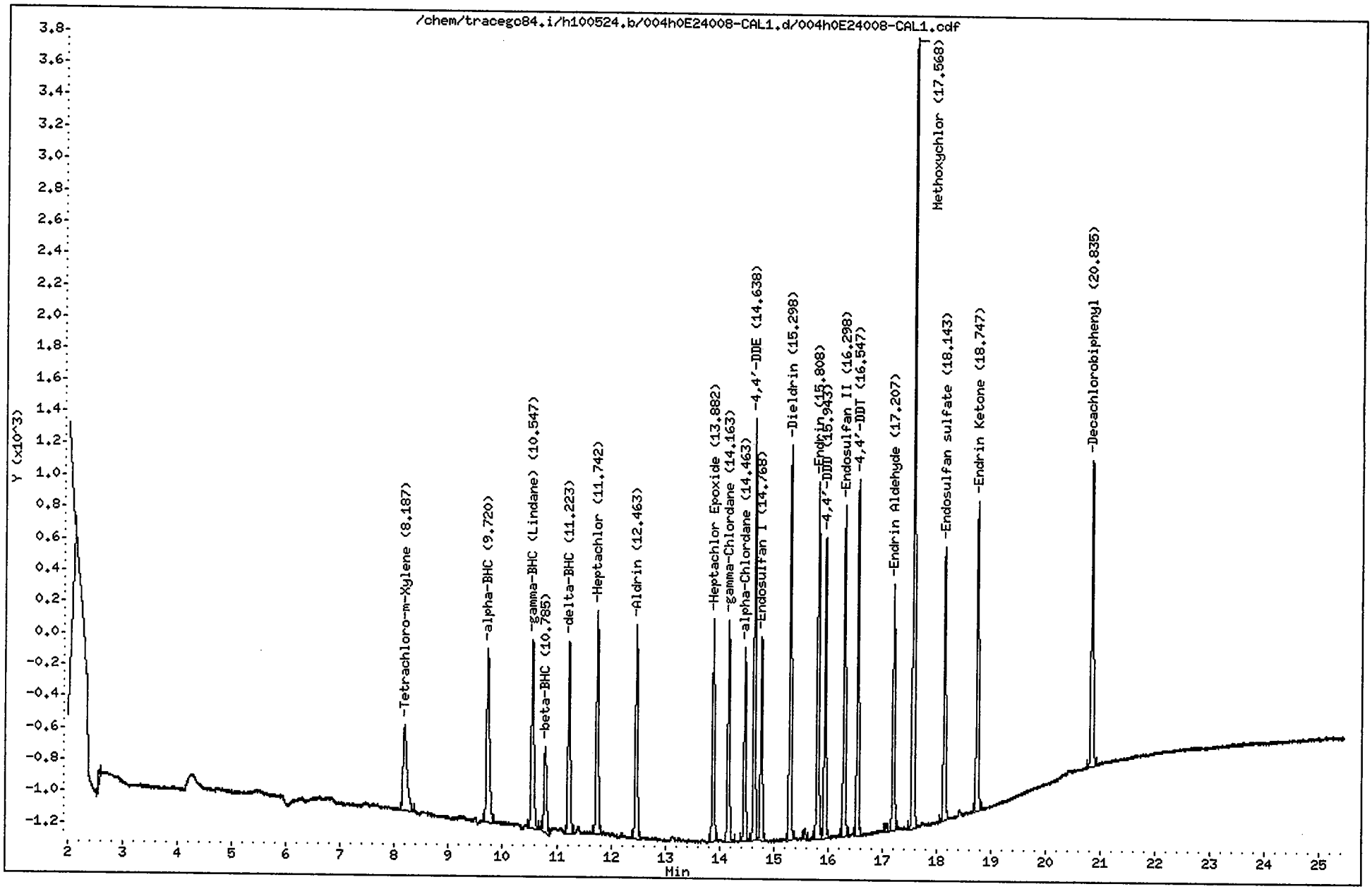
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.27			112								
0.37			137								
0.46			86								
1.05			109								
1.30			47								
1.41			287								
1.52			39102								
2.44			62								
2.58			174								
3.22			44								
3.46			45								
4.23			399								
5.09			72								
6.14			56								
8.18	8.11	8.25	10662	539702	Tetrachloro-m-Xylene	0.019756	0.019756		99.8	43 - 135	
9.27			161								
9.50			89								
9.62			78								
9.72			57								
10.97			93								
11.40			115								
12.04			86								
13.15			165								
14.13			112								
14.64	14.57	14.71	157	569541	4,4'-DDE	0.000276	0.000276	0.020000			J
15.81	15.74	15.88	11348	519295	Endrin	0.021854	0.021854	0.020000			
16.55	16.48	16.62	14197	486148	4,4'-DDT	0.029203	0.029203	0.020000			
17.07			134								
17.21	17.14	17.28	113	367936	Endrin Aldehyde	0.000307	0.000307	0.020000			J
18.43			99								
18.75	18.68	18.82	186	478826	Endrin Ketone	0.000389	0.000389	0.020000			J
19.97			59								
20.42			58								
20.84	20.77	20.91	17217	444411	Decachlorobiphenyl	0.038742	0.038742		97.8	43 - 144	
22.55			62								
24.86			69								

Data File: /chem/tracegc84.i/h100524.b/004h0E24008-CAL1.d
Date : 24-MAY-2010 15:46
Client ID: INDC1HA
Sample Info: 0E24008-CAL1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

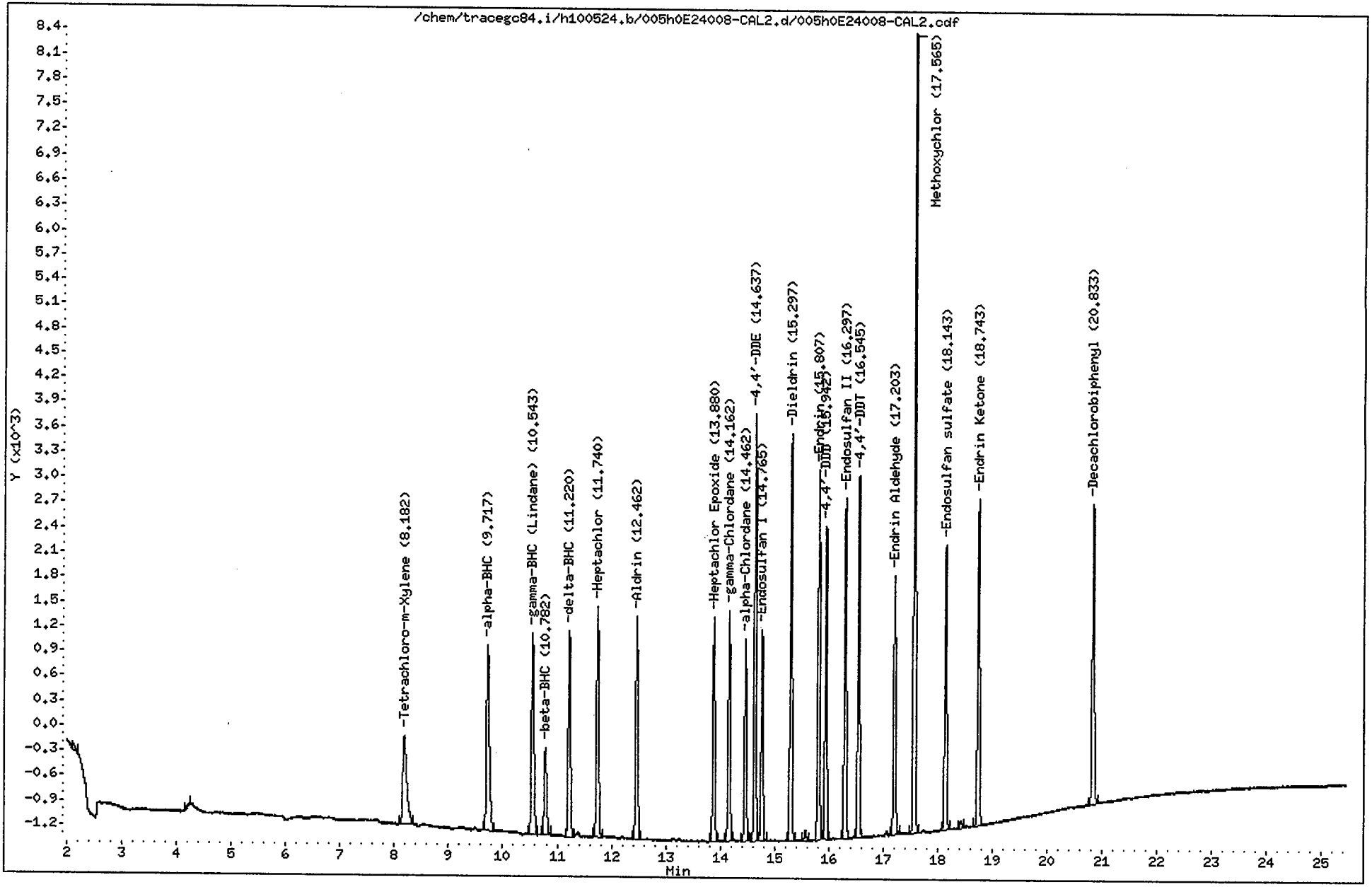
Lab Smp Id : 0E24008-CAL1 Client Smp Id : INDC1HA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 24-MAY-2010 15:46 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : INDC1HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.51			184467					
2.56			186					
8.19	8.11	8.25	2788	539702	Tetrachloro-m-Xylene	0.005000	557600	
9.72	9.65	9.79	3965	802020	alpha-BHC	0.005000	792800	
10.55	10.48	10.62	3822	758655	gamma-BHC (Lindane)	0.005000	764400	
10.78	10.71	10.85	1730	318610	beta-BHC	0.005000	345800	
11.22	11.15	11.29	3459	704062	delta-BHC	0.005000	691800	
11.74	11.67	11.81	3912	750482	Heptachlor	0.005000	782400	
12.46	12.39	12.53	3615	689285	Aldrin	0.005000	723000	
13.88	13.81	13.95	3410	642292	Heptachlor Epoxide	0.005000	682000	
14.16	14.09	14.23	3539	652722	gamma-Chlordane	0.005000	707800	
14.46	14.39	14.53	3016	564490	alpha-Chlordane	0.005000	603000	
14.64	14.57	14.71	6107	569541	4,4'-DDE	0.010000	610700	
14.77	14.70	14.84	3173	594888	Endosulfan I	0.005000	634600	
15.30	15.23	15.37	6049	570655	Dieldrin	0.010000	604900	
15.57			182					
15.81	15.74	15.88	5617	519295	Endrin	0.010000	561600	
15.94	15.87	16.01	4354	417785	4,4'-DDD	0.010000	435400	
16.30	16.23	16.37	5131	484260	Endosulfan II	0.010000	513100	
16.55	16.48	16.62	5193	486148	4,4'-DDT	0.010000	519200	
17.06			135					
17.21	17.14	17.28	3859	367936	Endrin Aldehyde	0.010000	385900	
17.57	17.50	17.64	11837	208219	Methoxychlor	0.050000	236740	
18.14	18.07	18.21	4311	409905	Endosulfan sulfate	0.010000	431000	
18.75	18.68	18.82	5054	478826	Endrin Ketone	0.010000	505400	
20.84	20.77	20.91	5187	444411	Decachlorobiphenyl	0.010000	518700	

Data File: /chem/tracegc84.i/h100524.b/005h0E24008-CAL2.d
Date : 24-MAY-2010 16:15
Client ID: INDC2HA
Sample Info: 0E24008-CAL2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

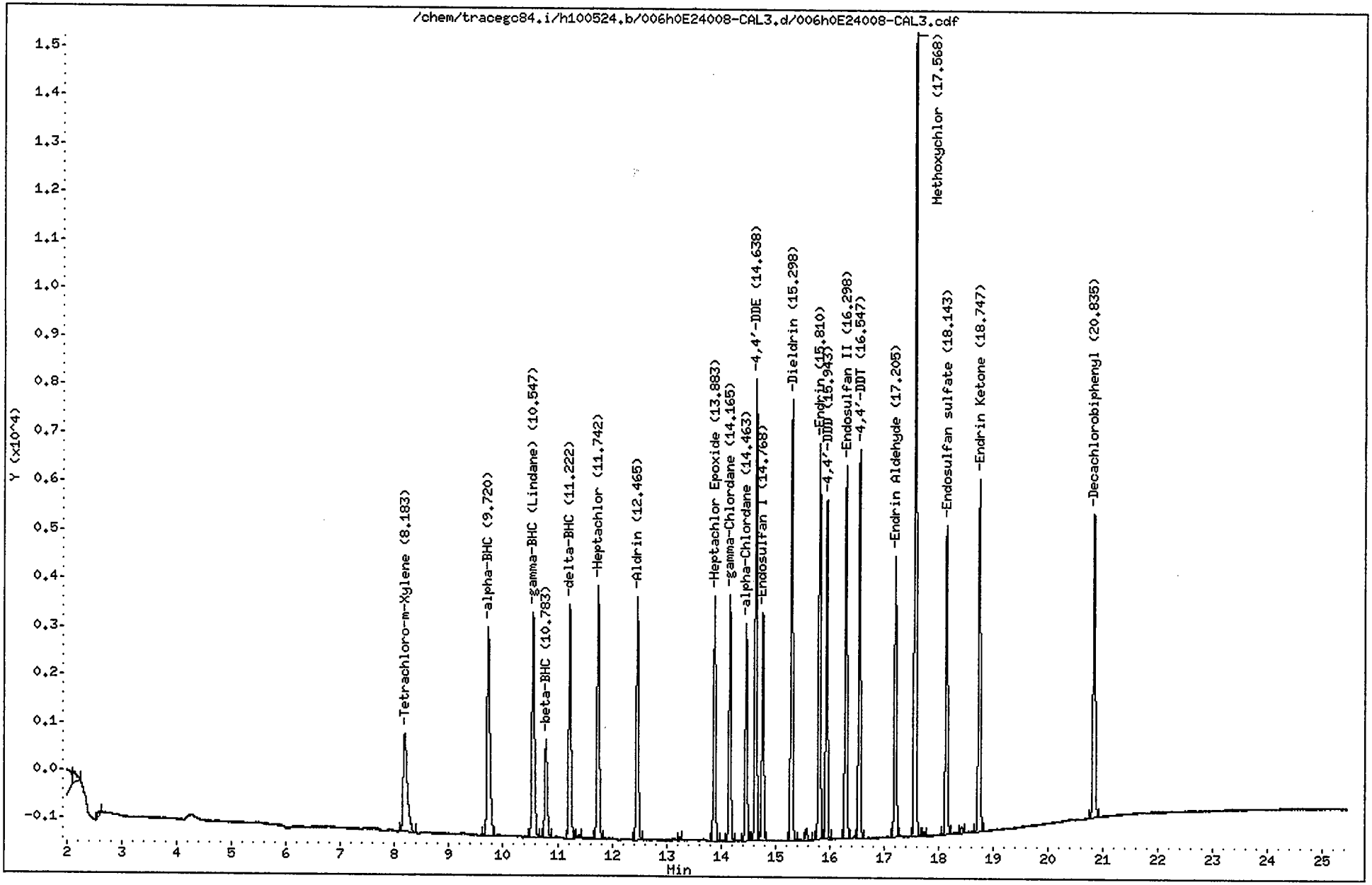
Lab Smp Id : 0E24008-CAL2 Client Smp Id : INDC2HA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 24-MAY-2010 16:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : INDC2HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44			211					
1.52			31314					
2.12			241					
4.24			132					
8.18	8.11	8.25	5520	539702	Tetrachloro-m-Xylene	0.010000	551900	
9.72	9.65	9.79	8129	802020	alpha-BHC	0.010000	812800	
10.54	10.48	10.62	7727	758655	gamma-BHC (Lindane)	0.010000	772600	
10.78	10.71	10.85	3260	318610	beta-BHC	0.010000	326000	
11.22	11.15	11.29	7114	704062	delta-BHC	0.010000	711300	
11.74	11.67	11.81	7864	750482	Heptachlor	0.010000	786400	
12.46	12.39	12.53	7155	689285	Aldrin	0.010000	715500	
13.88	13.81	13.95	6774	642292	Heptachlor Epoxide	0.010000	677300	
14.16	14.09	14.23	6876	652722	gamma-Chlordane	0.010000	687600	
14.46	14.39	14.53	5952	564490	alpha-Chlordane	0.010000	595100	
14.64	14.57	14.71	12060	569541	4,4'-DDE	0.020000	602950	
14.76	14.70	14.84	6259	594888	Endosulfan I	0.010000	625900	
15.30	15.23	15.37	11988	570655	Dieldrin	0.020000	599400	
15.57			335					
15.81	15.74	15.88	10909	519295	Endrin	0.020000	545400	
15.94	15.87	16.01	8741	417785	4,4'-DDD	0.020000	437050	
16.30	16.23	16.37	10215	484260	Endosulfan II	0.020000	510750	
16.54	16.48	16.62	10242	486148	4,4'-DDT	0.020000	512050	
17.20	17.14	17.28	7808	367936	Endrin Aldehyde	0.020000	390350	
17.56	17.50	17.64	22916	208219	Methoxychlor	0.100000	229160	
18.14	18.07	18.21	8750	409905	Endosulfan sulfate	0.020000	437500	
18.42			203					
18.74	18.68	18.82	10202	478826	Endrin Ketone	0.020000	510100	
20.83	20.77	20.91	9818	444411	Decachlorobiphenyl	0.020000	490900	

Data File: /chem/tracegc84.i/h100524.b/006h0E24008-CAL3.d
Date : 24-MAY-2010 16:44
Client ID: INDC3HA
Sample Info: 0E24008-CAL3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

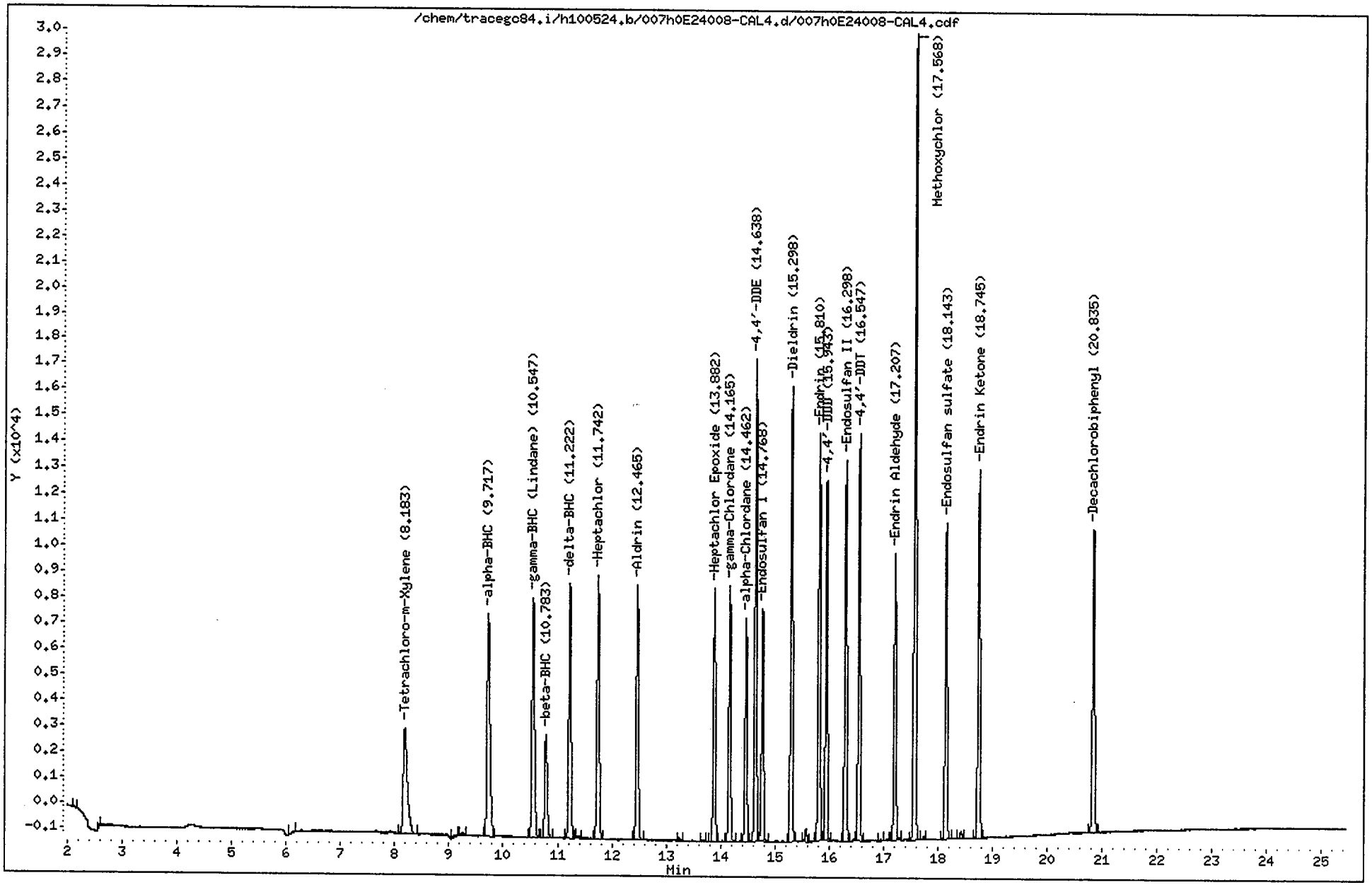
Lab Smp Id : 0E24008-CAL3 Client Smp Id : INDC3HA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 24-MAY-2010 16:44 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : INDC3HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52			45631					
2.13			1018					
2.58			459					
8.18	8.11	8.25	10593	539702	Tetrachloro-m-Xylene	0.020000	529650	
9.72	9.65	9.79	15758	802020	alpha-BHC	0.020000	787900	
10.55	10.48	10.62	14935	758655	gamma-BHC (Lindane)	0.020000	746700	
10.78	10.71	10.85	6217	318610	beta-BHC	0.020000	310800	
11.22	11.15	11.29	13886	704062	delta-BHC	0.020000	694250	
11.39			221					
11.74	11.67	11.81	14822	750482	Heptachlor	0.020000	741050	
12.46	12.39	12.53	13601	689285	Aldrin	0.020000	680050	
13.25			151					
13.88	13.81	13.95	12723	642292	Heptachlor Epoxide	0.020000	636150	
14.16	14.09	14.23	12757	652722	gamma-Chlordane	0.020000	637850	
14.46	14.39	14.53	11146	564490	alpha-Chlordane	0.020000	557300	
14.64	14.57	14.71	22360	569541	4,4'-DDE	0.040000	559000	
14.77	14.70	14.84	11727	594888	Endosulfan I	0.020000	586350	
15.30	15.23	15.37	22485	570655	Dieldrin	0.040000	562125	
15.57			610					
15.81	15.74	15.88	20488	519295	Endrin	0.040000	512175	
15.94	15.87	16.01	16418	417785	4,4'-DDD	0.040000	410450	
16.30	16.23	16.37	19151	484260	Endosulfan II	0.040000	478775	
16.55	16.48	16.62	19053	486148	4,4'-DDT	0.040000	476300	
17.20	17.14	17.28	14684	367936	Endrin Aldehyde	0.040000	367100	
17.57	17.50	17.64	40928	208219	Methoxychlor	0.200000	204640	
17.74			180					
18.14	18.07	18.21	16185	409905	Endosulfan sulfate	0.040000	404600	
18.42			359					
18.75	18.68	18.82	18893	478826	Endrin Ketone	0.040000	472300	
20.84	20.77	20.91	17430	444411	Decachlorobiphenyl	0.040000	435725	

Data File: /chem/tracegc84.i/h100524.b/007h0E24008-CAL4.d
Date : 24-MAY-2010 17:13
Client ID: INDC4HA
Sample Info: 0E24008-CAL4
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

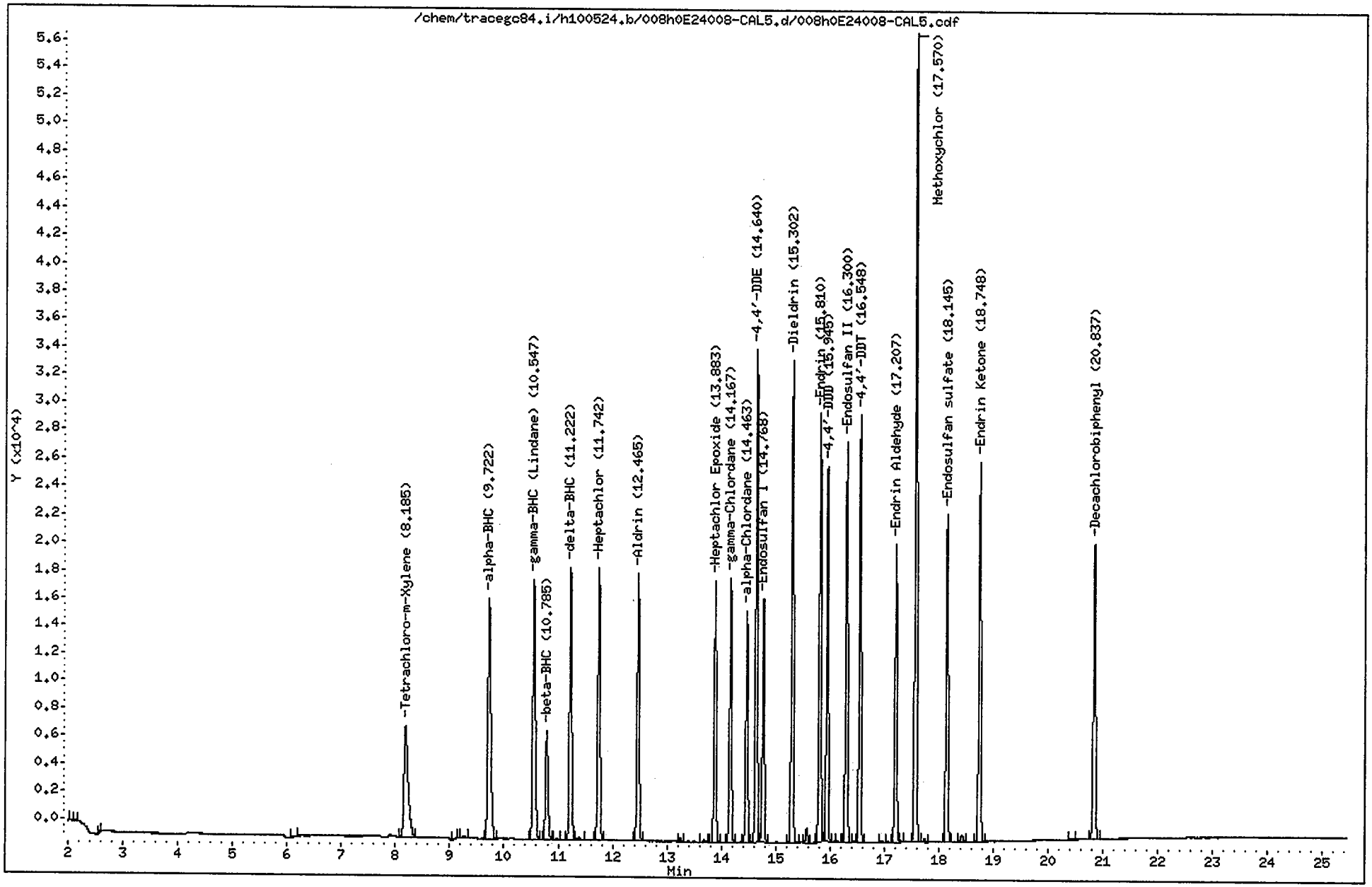
Lab Smp Id : 0E24008-CAL4 Client Smp Id : INDC4HA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 24-MAY-2010 17:13 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : INDC4HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52			31255					
2.12			247					
2.58			185					
6.16			156					
8.18	8.11	8.25	21374	539702	Tetrachloro-m-Xylene	0.040000	534350	
9.13			205					
9.25			291					
9.72	9.65	9.79	32262	802020	alpha-BHC	0.040000	806525	
10.55	10.48	10.62	30217	758655	gamma-BHC (Lindane)	0.040000	755425	
10.78	10.71	10.85	12394	318610	beta-BHC	0.040000	309825	
11.22	11.15	11.29	28400	704062	delta-BHC	0.040000	710000	
11.39			297					
11.74	11.67	11.81	29279	750482	Heptachlor	0.040000	731975	
12.46	12.39	12.53	26909	689285	Aldrin	0.040000	672700	
13.24			294					
13.69			163					
13.88	13.81	13.95	24804	642292	Heptachlor Epoxide	0.040000	620100	
14.16	14.09	14.23	25041	652722	gamma-Chlordane	0.040000	626000	
14.46	14.39	14.53	21706	564490	alpha-Chlordane	0.040000	542625	
14.64	14.57	14.71	43608	569541	4,4'-DDE	0.080000	545100	
14.77	14.70	14.84	23030	594888	Endosulfan I	0.040000	575750	
15.30	15.23	15.37	44065	570655	Dieldrin	0.080000	550800	
15.57			1223					
15.81	15.74	15.88	39779	519295	Endrin	0.080000	497225	
15.94	15.87	16.01	32628	417785	4,4'-DDD	0.080000	407837	
16.30	16.23	16.37	37417	484260	Endosulfan II	0.080000	467700	
16.55	16.48	16.62	37443	486148	4,4'-DDT	0.080000	468037	
16.96			133					
17.07			123					
17.21	17.14	17.28	28527	367936	Endrin Aldehyde	0.080000	356575	
17.57	17.50	17.64	77196	208219	Methoxychlor	0.400000	192987	
17.74			321					
18.14	18.07	18.21	31739	409905	Endosulfan sulfate	0.080000	396737	
18.43			762					
18.74	18.68	18.82	37060	478826	Endrin Ketone	0.080000	463250	
20.84	20.77	20.91	32549	444411	Decachlorobiphenyl	0.080000	406850	

Data File: /chem/tracegc84.i/h100524.b/008h0E24008-CAL5.d
Date : 24-MAY-2010 17:42
Client ID: INDC5HA
Sample Info: 0E24008-CAL5
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL5 Client Smp Id : INDC5HA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 24-MAY-2010 17:42 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : INDC5HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.05			174					
1.41			155					
1.48			5470					
1.51			30715					
1.95			427					
2.12			295					
2.59			267					
6.18			147					
8.18	8.11	8.25	42001	539702	Tetrachloro-m-Xylene	0.080000	525013	
9.13			234					
9.26			553					
9.72	9.65	9.79	64806	802020	alpha-BHC	0.080000	810075	
10.55	10.48	10.62	60332	758655	gamma-BHC (Lindane)	0.080000	754150	
10.78	10.71	10.85	24051	318610	beta-BHC	0.080000	300625	
10.97			217					
11.22	11.15	11.29	57038	704062	delta-BHC	0.080000	712963	
11.39			546					
11.74	11.67	11.81	56848	750482	Heptachlor	0.080000	710587	
12.46	12.39	12.53	52415	689285	Aldrin	0.080000	655175	
13.25			556					
13.69			391					
13.88	13.81	13.95	47673	642292	Heptachlor Epoxide	0.080000	595913	
14.17	14.09	14.23	48349	652722	gamma-Chlordane	0.080000	604363	
14.46	14.39	14.53	41955	564490	alpha-Chlordane	0.080000	524425	
14.64	14.57	14.71	84794	569541	4,4'-DDE	0.160000	529956	
14.77	14.70	14.84	44148	594888	Endosulfan I	0.080000	551837	
15.30	15.23	15.37	85768	570655	Dieldrin	0.160000	536050	
15.57			2467					
15.81	15.74	15.88	76813	519295	Endrin	0.160000	480075	
15.94	15.87	16.01	63710	417785	4,4'-DDD	0.160000	398187	
16.08			138					
16.14			165					
16.30	16.23	16.37	72157	484260	Endosulfan II	0.160000	450975	
16.45			320					
16.55	16.48	16.62	72825	486148	4,4'-DDT	0.160000	455150	
16.96			221					
17.21	17.14	17.28	54362	367936	Endrin Aldehyde	0.160000	339756	
17.30			420					
17.57	17.50	17.64	142055	208219	Methoxychlor	0.800000	177569	
17.74			636					
18.14	18.07	18.21	60750	409905	Endosulfan sulfate	0.160000	379687	
18.43			1363					

CompuChem

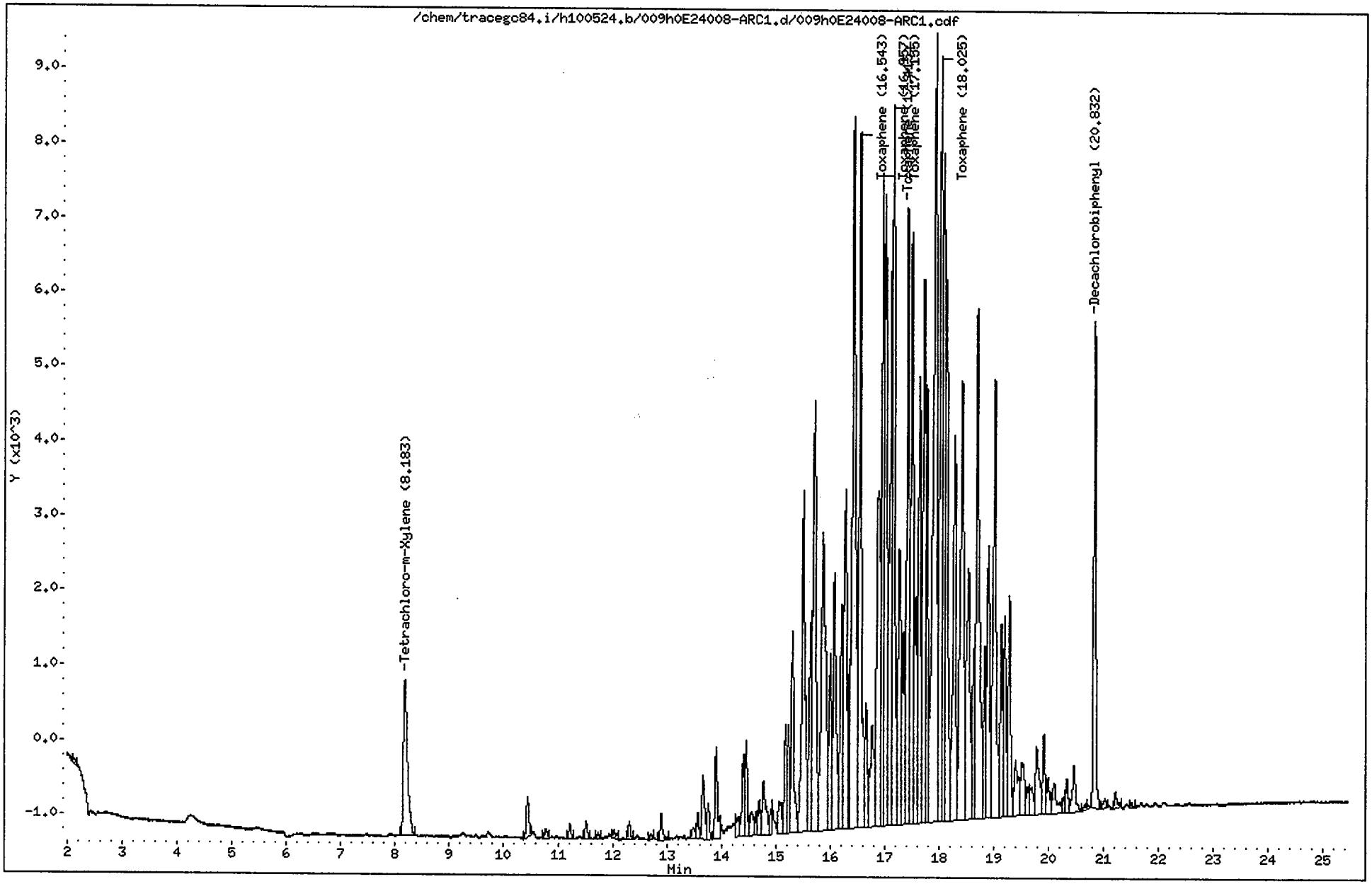
Lab Smp Id : 0E24008-CAL5 Client Smp Id : INDC5HA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 24-MAY-2010 17:42 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : INDC5HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
18.75	18.68 18.82	70894	478826	Endrin Ketone	0.160000	443081	
20.42		291					
20.84	20.77 20.91	59181	444411	Decachlorobiphenyl	0.160000	369881	

Data File: /chem/tracegc84.i/h100524.b/009h0E24008-ARC1.d
Date : 24-MAY-2010 18:11
Client ID: TOXAPH3HA
Sample Info: 0E24008-ARC1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 24-MAY-2010 18:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.43		149					
1.52		34556					
2.12		224					
8.18	8.11 8.25	10898	539702	Tetrachloro-m-Xylene	0.020000	529650	
10.44		1798					
10.78		430					
11.22		585					
11.52		656					
11.74		213					
12.03		379					
12.31		692					
12.71		184					
12.89		1204					
13.49		549					
13.57		1050					
13.66		3045					
13.76		1357					
13.90		4094					
14.30		1131					
14.40		3189					
14.46		3546					
14.56		1544					
14.64		755					
14.70		1514					
14.77		3321					
14.94		1155					
15.06		1971					
15.18		4493					
15.23		3659					
15.30		8952					
15.50		18139					
15.65		10661					
15.70		22229					
15.86		23881					
16.00		6905					
16.07		13140					
16.21		11112					
16.27		16235					
16.35		5472					
16.42		40927					
16.54	16.47 16.61	30551	15275	Toxaphene Peak 1	2.000000	15275	
16.66		5105					

pw 5/26/10

25/10

CompuChem

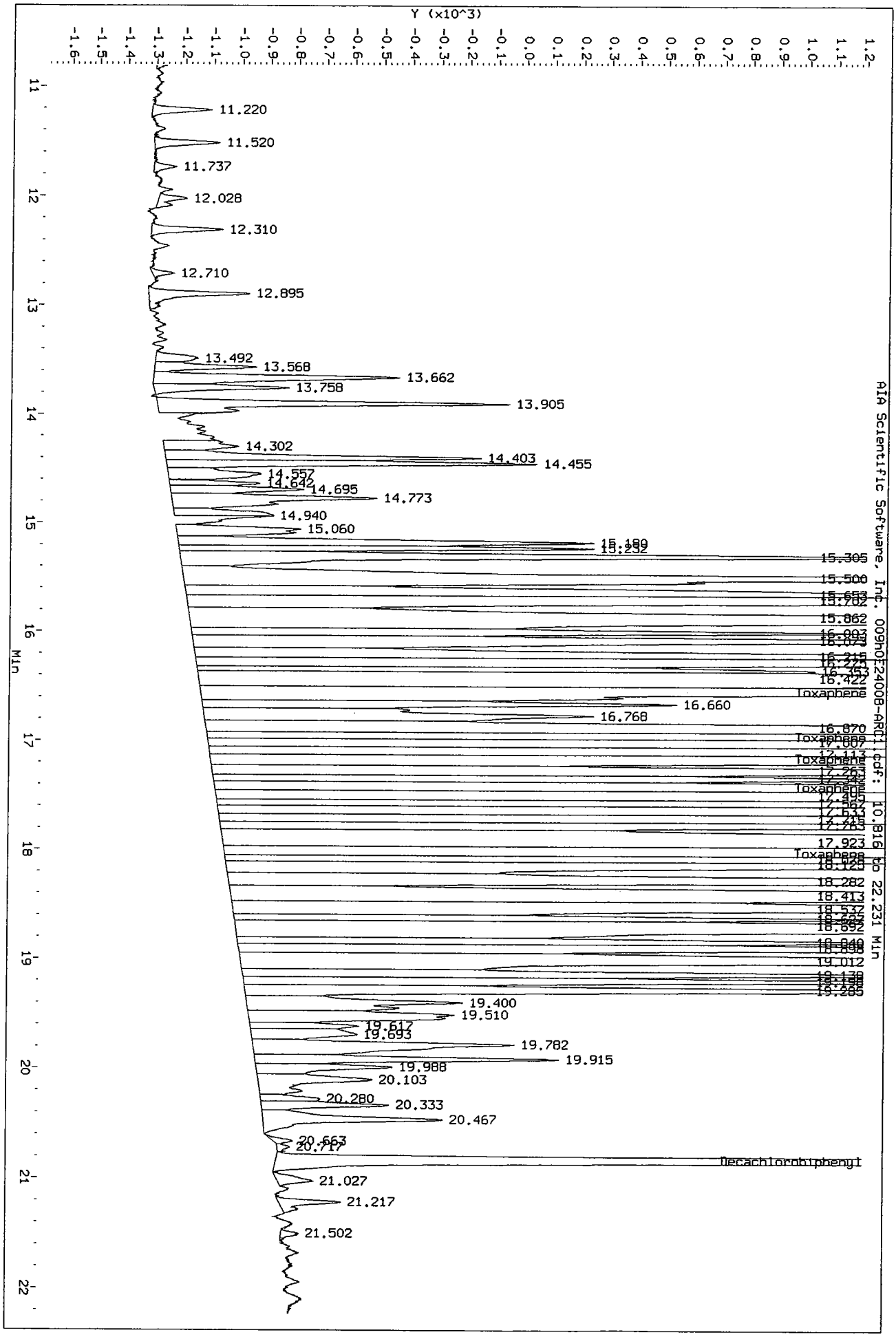
Lab Smp Id : 0E24008-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 24-MAY-2010 18:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.77		6866					
16.87		21266					
16.96	16.89 17.03	23799	11899	Toxaphene Peak 2	2.000000	11899	
17.01		26578					
17.11		23032					
17.15	17.08 17.22	31284	15642	Toxaphene Peak 3	2.000000	15642	
17.26		14359					
17.34		7679					
17.42	17.34 17.48	25148	12574	Toxaphene Peak 4	2.000000	12574	
17.50		27246					
17.57		8769					
17.63		18768					
17.71		23843					
17.76		16342					
17.92		49206					
18.02	17.95 18.09	34437	17218	Toxaphene Peak 5	2.000000	17218	
18.08		26088					
18.13		23006					
18.28		18657					
18.41		27081					
18.54		16208					
18.63		6255					
18.69		28490					
18.84		6821					
18.90		12026					
19.01		23154					
19.14		7916					
19.20		8060					
19.29		9392					
19.40		4037					
19.51		3683					
19.62		1159					
19.69		1822					
19.78		4495					
19.91		3220					
19.99		1746					
20.10		2304					
20.28		617					
20.33		1393					
20.47		2693					
20.66		182					
20.72		124					

CompuChem

Lab Smp Id : 0E24008-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 24-MAY-2010 18:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
20.83	20.77 20.91	18542	444411	Decachlorobiphenyl	0.040000	435725	
21.03		483					
21.22		717					
21.50		178					


Data File: /chem/tracegc84.i/h100524.b/009h0E2400B-ARC1.d/009h0E2400B-ARC1.cdf
Injection Date: 24-MAY-2010 18:11
Instrument: tracegc84.i
Client Sample ID: TOXAPH3HA
Y (x10^3)
Min
AIA Scientific Software, Inc. 009h0E2400B-ARC1.cdf: 10.816 to 22.231 Min
11.220
11.520
11.737
12.028
12.310
12.710
12.895
13.492
13.568
13.662
13.758
13.905
14.302
14.403
14.455
14.557
14.642
14.695
14.773
14.940
15.060
15.189
15.232
15.305
15.500
15.653
15.702
15.862
16.422
Toxaphene
16.660
16.768
16.870
Toxaphene
Toxaphene
Toxaphene
17.923
Toxaphene
18.282
18.413
18.692
19.012
19.285
19.400
19.510
19.617
19.693
19.782
19.915
19.988
20.103
20.280
20.333
20.467
20.663
20.717
Decachlorobiphenyl
21.027
21.217
21.502

Data File: /chem/tracegc84.i/h100524.b/010h0E24008-ARC2.d

Date : 24-MAY-2010 18:40

Client ID: CHLOR03HA

Sample Info: 0E24008-ARC2

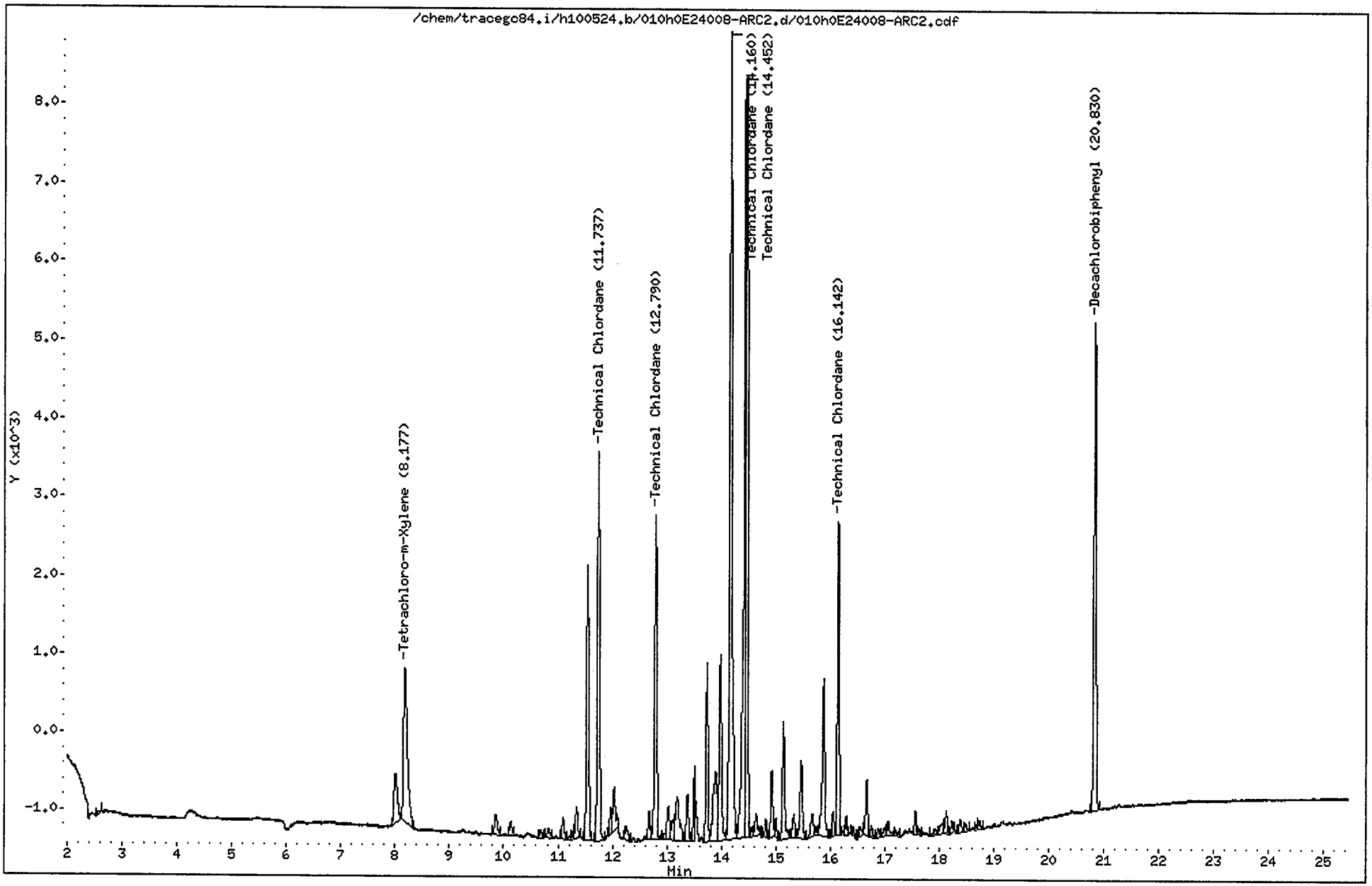
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 24-MAY-2010 18:40 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53		29560					
2.61		129					
8.00		2822					
8.18	8.11 8.25	9985	539702	Tetrachloro-m-Xylene	0.020000	529650	
9.85		910					
10.13		556					
10.69		311					
10.83		362					
11.09		810					
11.21		130					
11.28		226					
11.34		1179					
11.54		10044					
11.74	11.67 11.81	14093	35232	TechnicalChlordane Peak 1	0.400000	35233	
11.97		794					
12.03		1895					
12.24		653					
12.67		922					
12.79	12.72 12.86	11859	29648	TechnicalChlordane Peak 2	0.400000	29647	
12.96		233					
13.02		1377					
13.10		807					
13.19		2836					
13.37		1685					
13.50		1003					
13.73		5703					
13.89		4622					
13.98		7307					
14.16	14.09 14.23	31449	78620	TechnicalChlordane Peak 3	0.400000	78620	
14.42		25914					
14.45	14.38 14.52	22538	56342	TechnicalChlordane Peak 4	0.400000	56343	
14.55		243					
14.64		962					
14.82		479					
14.92		2187					
15.00		531					
15.13		4487					
15.33		816					
15.46		3110					
15.67		986					
15.75		259					
15.87		6508					

CompuChem

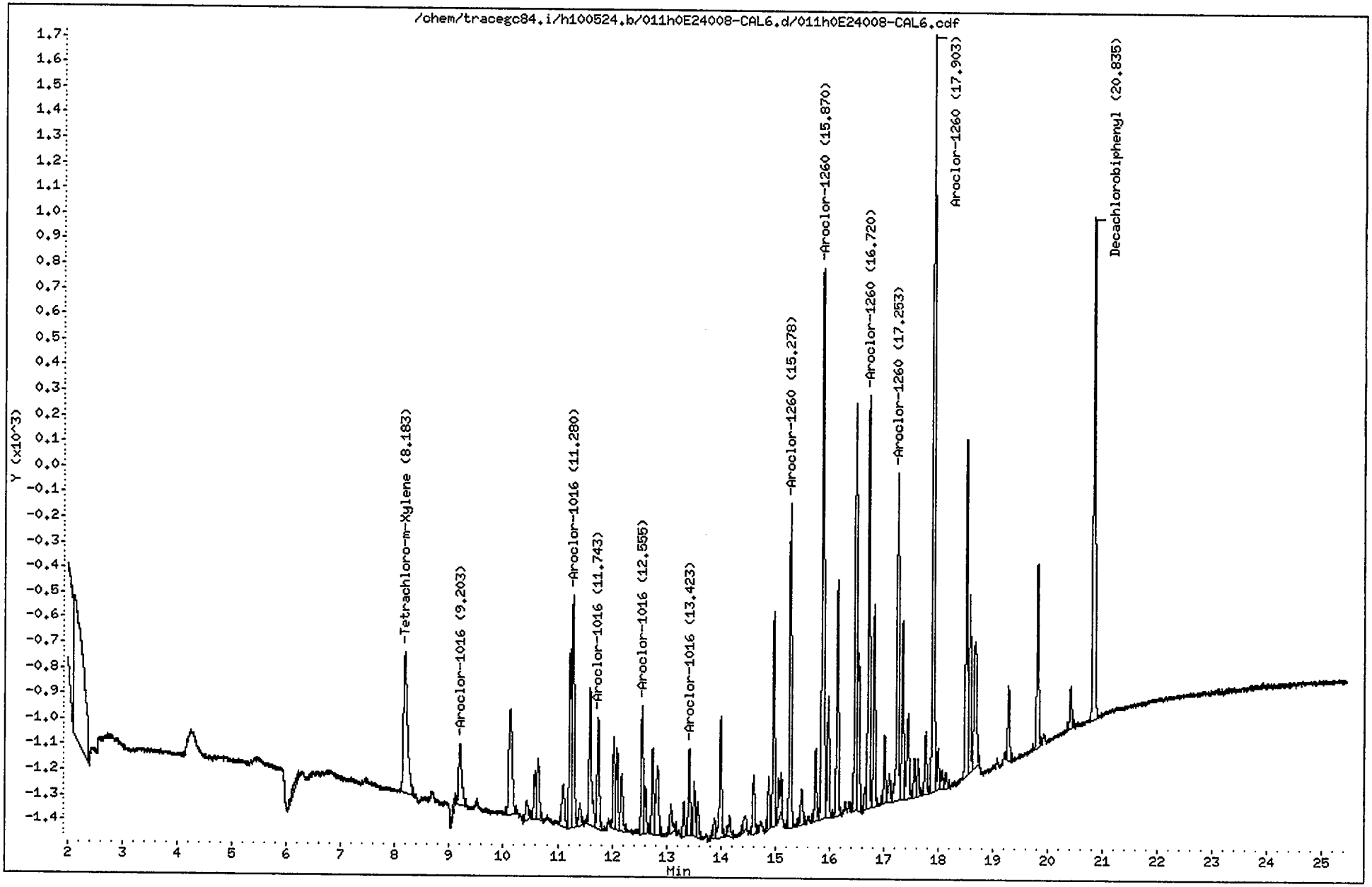
Lab Smp Id : 0E24008-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 24-MAY-2010 18:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.05		725					
16.14	16.07 16.21	9749	24370	TechnicalChlordane Peak 5	0.400000	24370	
16.30		550					
16.42		258					
16.55		402					
16.67		1988					
16.75		412					
16.88		315					
17.00		367					
17.07		622					
17.20		268					
17.56		628					
17.63		144					
17.92		288					
18.02		600					
18.13		757					
18.24		364					
18.38		493					
18.47		301					
18.69		152					
18.74		271					
20.83	20.77 20.91	17231	444411	Decachlorobiphenyl	0.040000	435725	

Data File: /chem/tracegc84.i/h100524.b/011h0E24008-CAL6.d
Date : 24-MAY-2010 19:09
Client ID: AR16601HA
Sample Info: 0E24008-CAL6
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 24-MAY-2010 19:09 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16601HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44			552					
1.52			49609					
2.12			6458					
6.20			212					
8.18	8.11	8.25	2798	539702	Tetrachloro-m-Xylene	0.005000	557600	
9.10			128					
9.20	9.13	9.27	973	9223	Aroclor-1016 Peak 1	0.100000	9720.000	
10.13			1816					
10.43			259					
10.58			525					
10.64			728					
11.10			604					
11.23			1690					
11.28	11.21	11.35	2691	23879	Aroclor-1016 Peak 2	0.100000	26900	
11.40			263					
11.60			1712					
11.74	11.67	11.81	1203	10671	Aroclor-1016 Peak 3	0.100000	12020	
12.03			910					
12.09			831					
12.18			695					
12.56	12.48	12.62	1300	11763	Aroclor-1016 Peak 4	0.100000	13000	
12.62			445					
12.75			883					
12.84			1013					
13.09			355					
13.32			339					
13.42	13.35	13.49	827	7944	Aroclor-1016 Peak 5	0.100000	8260.000	
13.51			506					
13.58			366					
13.88			196					
14.00			1269					
14.16			229					
14.43			215					
14.60			636					
14.88			451					
14.97			1931					
15.07			619					
15.28	15.21	15.35	3136	26679	Aroclor-1260 Peak 1	0.100000	31350	
15.49			413					
15.74			672					
15.87	15.80	15.94	6088	52337	Aroclor-1260 Peak 2	0.100000	60880	
15.98			1158					

CompuChem

Lab Smp Id : 0E24008-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 24-MAY-2010 19:09 Inst ID :
Operator : System
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16601HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.15		2282					
16.48		4280					
16.54		1441					
16.65		188					
16.72	16.65 16.79	3859	34082	Aroclor-1260 Peak 3	0.100000	38580	
16.82		1899					
17.02		627					
17.11		307					
17.25	17.18 17.32	3397	28643	Aroclor-1260 Peak 4	0.100000	33970	
17.34		1680					
17.44		1004					
17.57		396					
17.63		335					
17.77		611					
17.90	17.83 17.97	7332	63755	Aroclor-1260 Peak 5	0.100000	73310	
18.00		419					
18.07		198					
18.14		159					
18.52		3264					
18.58		1639					
18.67		1795					
19.28		729					
19.81		1769					
20.42		409					
20.84	20.77 20.91	5367	444411	Decachlorobiphenyl	0.010000	518700	

Data File: /chem/tracegc84.i/h100524.b/012h0E24008-CAL7.d

Date : 24-MAY-2010 19:38

Client ID: AR16602HA

Sample Info: 0E24008-CAL7

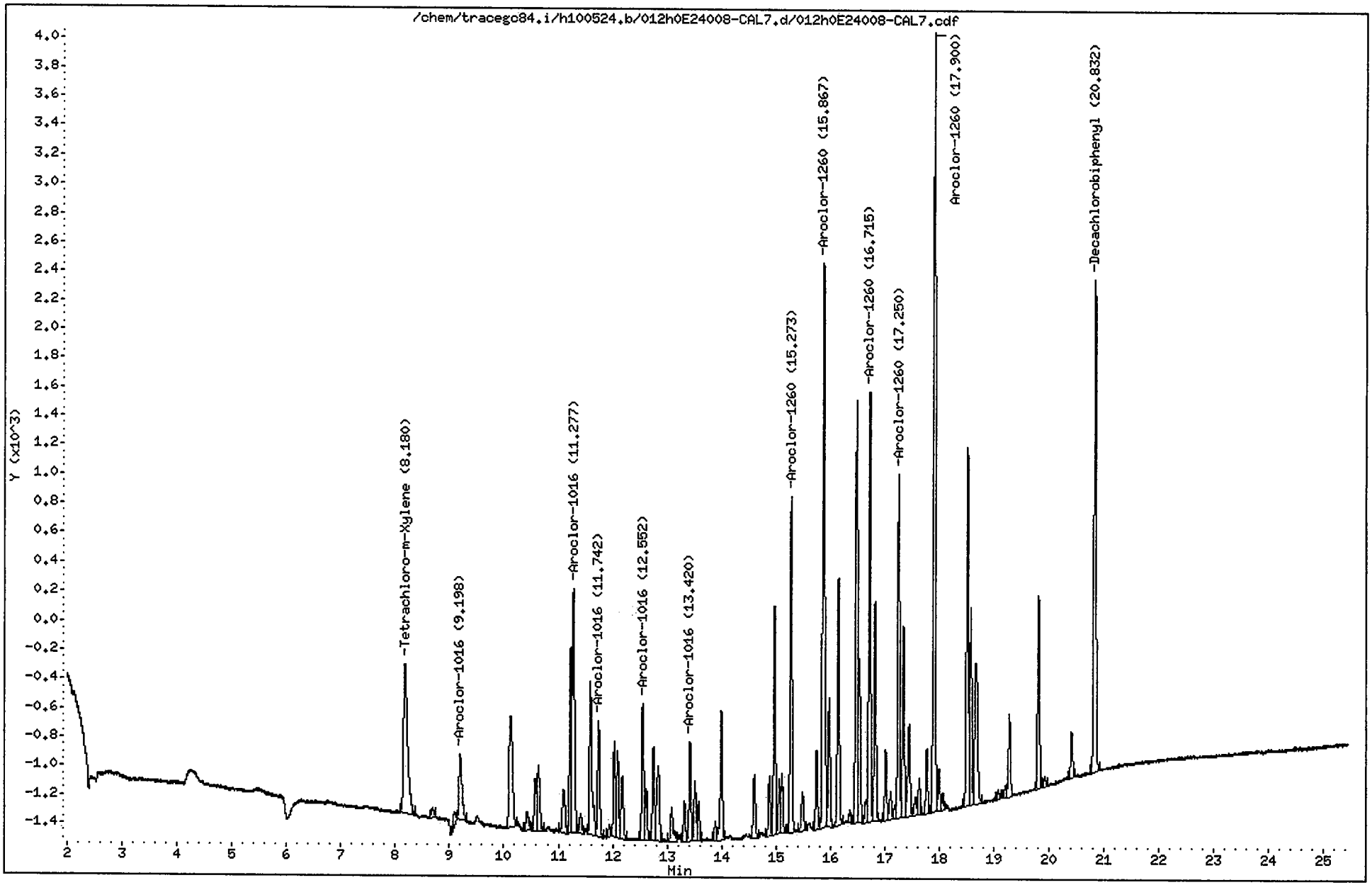
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 24-MAY-2010 19:38 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16602HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44			179					
1.52			30709					
8.18	8.11	8.25	5418	539702	Tetrachloro-m-Xylene	0.010000	551900	
8.69			215					
9.10			315					
9.20	9.13	9.27	1772	9223	Aroclor-1016 Peak 1	0.200000	8855.000	
10.12			3405					
10.43			434					
10.58			966					
10.63			1517					
11.10			1094					
11.23			3184					
11.28	11.21	11.35	4905	23879	Aroclor-1016 Peak 2	0.200000	24525	
11.41			384					
11.59			3369					
11.74	11.67	11.81	2198	10671	Aroclor-1016 Peak 3	0.200000	10990	
11.94			178					
12.03			1660					
12.09			1580					
12.18			1336					
12.55	12.48	12.62	2441	11763	Aroclor-1016 Peak 4	0.200000	12205	
12.62			893					
12.75			1623					
12.84			1898					
13.09			794					
13.32			674					
13.42	13.35	13.49	1667	7944	Aroclor-1016 Peak 5	0.200000	8330.000	
13.51			1086					
13.58			678					
13.88			304					
13.99			2319					
14.60			1186					
14.88			972					
14.97			3757					
15.06			868					
15.11			954					
15.27	15.21	15.35	5682	26679	Aroclor-1260 Peak 1	0.200000	28410	
15.48			787					
15.74			1292					
15.87	15.80	15.94	10981	52337	Aroclor-1260 Peak 2	0.200000	54900	
15.97			2164					
16.14			4236					

CompuChem

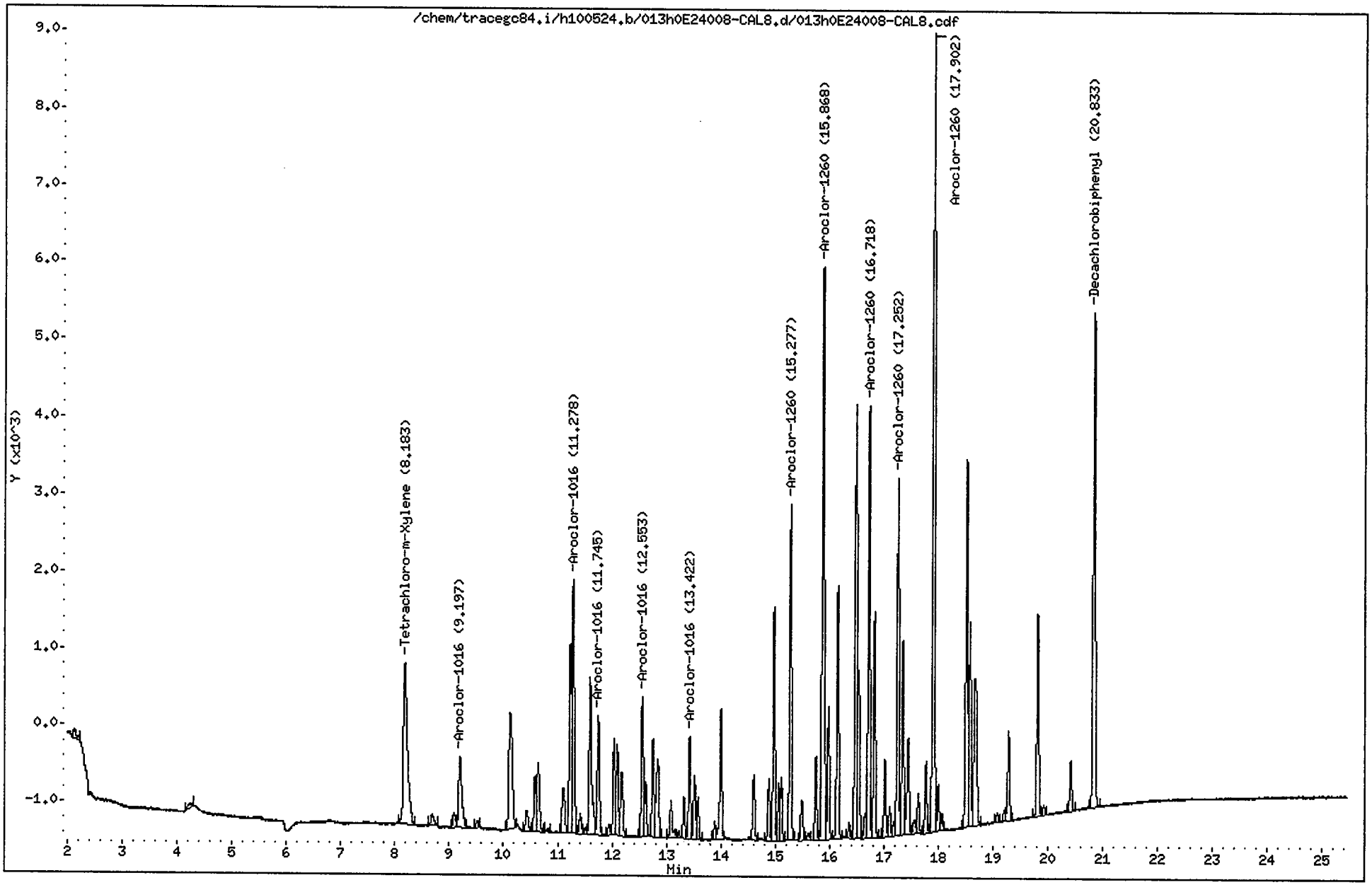
Lab Smp Id : 0E24008-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 24-MAY-2010 19:38 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16602HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.36		209					
16.48		7941					
16.53		2578					
16.65		361					
16.72	16.65 16.79	7154	34082	Aroclor-1260 Peak 3	0.200000	35770	
16.82		3563					
17.01		1191					
17.10		497					
17.18		200					
17.25	17.18 17.32	5922	28643	Aroclor-1260 Peak 4	0.200000	29605	
17.34		3140					
17.44		1878					
17.57		377					
17.63		591					
17.77		1113					
17.90	17.83 17.97	13298	63755	Aroclor-1260 Peak 5	0.200000	66490	
17.99		724					
18.06		279					
18.51		6216					
18.57		3216					
18.66		3850					
19.07		142					
19.20		185					
19.28		1503					
19.81		3280					
19.93		158					
20.41		807					
20.83	20.77 20.91	9196	444411	Decachlorobiphenyl	0.020000	490900	

Data File: /chem/tracegc84.i/h100524.b/013h0E24008-CAL8.d
Date : 24-MAY-2010 20:07
Client ID: AR16603HA
Sample Info: 0E24008-CAL8
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 24-MAY-2010 20:07 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16603HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44		122					
1.49		4906					
1.52		29383					
2.13		473					
4.24		287					
8.18	8.11 8.25	11026	539702	Tetrachloro-m-Xylene	0.020000	529650	
8.69		536					
9.08		635					
9.20	9.13 9.27	3774	9223	Aroclor-1016 Peak 1	0.400000	9435.000	
9.52		266					
10.12		6691					
10.43		931					
10.58		1945					
10.64		2881					
10.81		127					
11.10		2178					
11.23		6164					
11.28	11.21 11.35	9488	23879	Aroclor-1016 Peak 2	0.400000	23720	
11.41		711					
11.51		221					
11.60		6652					
11.74	11.67 11.81	4261	10671	Aroclor-1016 Peak 3	0.400000	10650	
11.94		336					
12.03		3126					
12.09		3209					
12.18		2592					
12.55	12.48 12.62	4729	11763	Aroclor-1016 Peak 4	0.400000	11820	
12.62		1804					
12.75		3156					
12.84		3796					
13.09		1484					
13.22		219					
13.32		1312					
13.42	13.35 13.49	3290	7944	Aroclor-1016 Peak 5	0.400000	8225.000	
13.51		2141					
13.58		1354					
13.88		529					
14.00		4542					
14.60		2245					
14.88		1917					
14.97		7300					
15.06		1733					

CompuChem

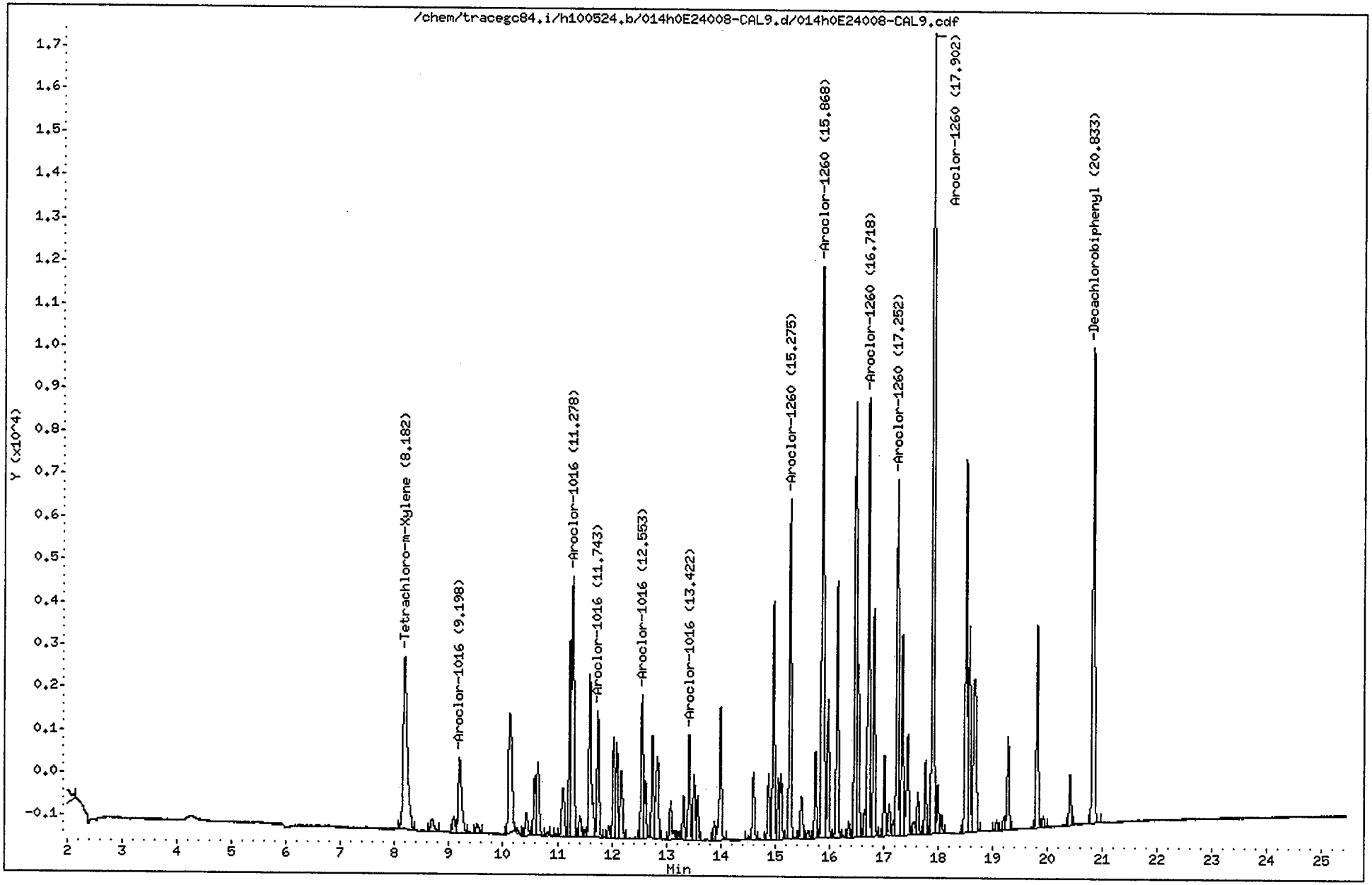
Lab Smp Id : 0E24008-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 24-MAY-2010 20:07 Inst ID :
Operator : System
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16603HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.11		1918					
15.28	15.21 15.35	10649	26679	Aroclor-1260 Peak 1	0.400000	26623	
15.49		1556					
15.61		322					
15.74		2590					
15.87	15.80 15.94	21055	52337	Aroclor-1260 Peak 2	0.400000	52635	
15.98		4235					
16.15		8235					
16.36		430					
16.48		15283					
16.53		5044					
16.65		716					
16.72	16.65 16.79	13870	34082	Aroclor-1260 Peak 3	0.400000	34673	
16.82		7039					
17.02		2395					
17.10		932					
17.18		408					
17.25	17.18 17.32	11486	28643	Aroclor-1260 Peak 4	0.400000	28713	
17.34		6205					
17.44		3750					
17.56		578					
17.63		1215					
17.77		2219					
17.90	17.83 17.97	25785	63755	Aroclor-1260 Peak 5	0.400000	64463	
17.99		1450					
18.06		489					
18.51		12359					
18.57		6432					
18.67		7563					
19.07		321					
19.20		368					
19.28		3089					
19.81		6653					
19.93		367					
20.41		1644					
20.83	20.77 20.91	17790	444411	Decachlorobiphenyl	0.040000	435725	

Data File: /chem/tracegc84.i/h100524.b/014h0E24008-CAL9.d
Date : 24-MAY-2010 20:36
Client ID: AR16604HA
Sample Info: 0E24008-CAL9
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 24-MAY-2010 20:36 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16604HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.42			152					
1.44			167					
1.52			33500					
8.18	8.11	8.25	21424	539702	Tetrachloro-m-Xylene	0.040000	534350	
8.69			1233					
9.09			1313					
9.20	9.13	9.27	7462	9223	Aroclor-1016 Peak 1	0.800000	9326.250	
9.52			783					
10.12			12675					
10.25			261					
10.43			1790					
10.58			3822					
10.64			5587					
10.82			233					
10.97			139					
11.10			4280					
11.23			11328					
11.28	11.21	11.35	18259	23879	Aroclor-1016 Peak 2	0.800000	22823	
11.41			1353					
11.51			421					
11.59			12635					
11.74	11.67	11.81	8088	10671	Aroclor-1016 Peak 3	0.800000	10109	
11.94			731					
12.03			6141					
12.09			6174					
12.18			5081					
12.55	12.48	12.62	9054	11763	Aroclor-1016 Peak 4	0.800000	11316	
12.62			3395					
12.75			6023					
12.84			7181					
13.09			2832					
13.22			408					
13.32			2561					
13.42	13.35	13.49	6201	7944	Aroclor-1016 Peak 5	0.800000	7750.000	
13.51			4013					
13.58			2605					
13.89			1034					
14.00			8663					
14.52			185					
14.60			4281					
14.88			3705					
14.97			13644					

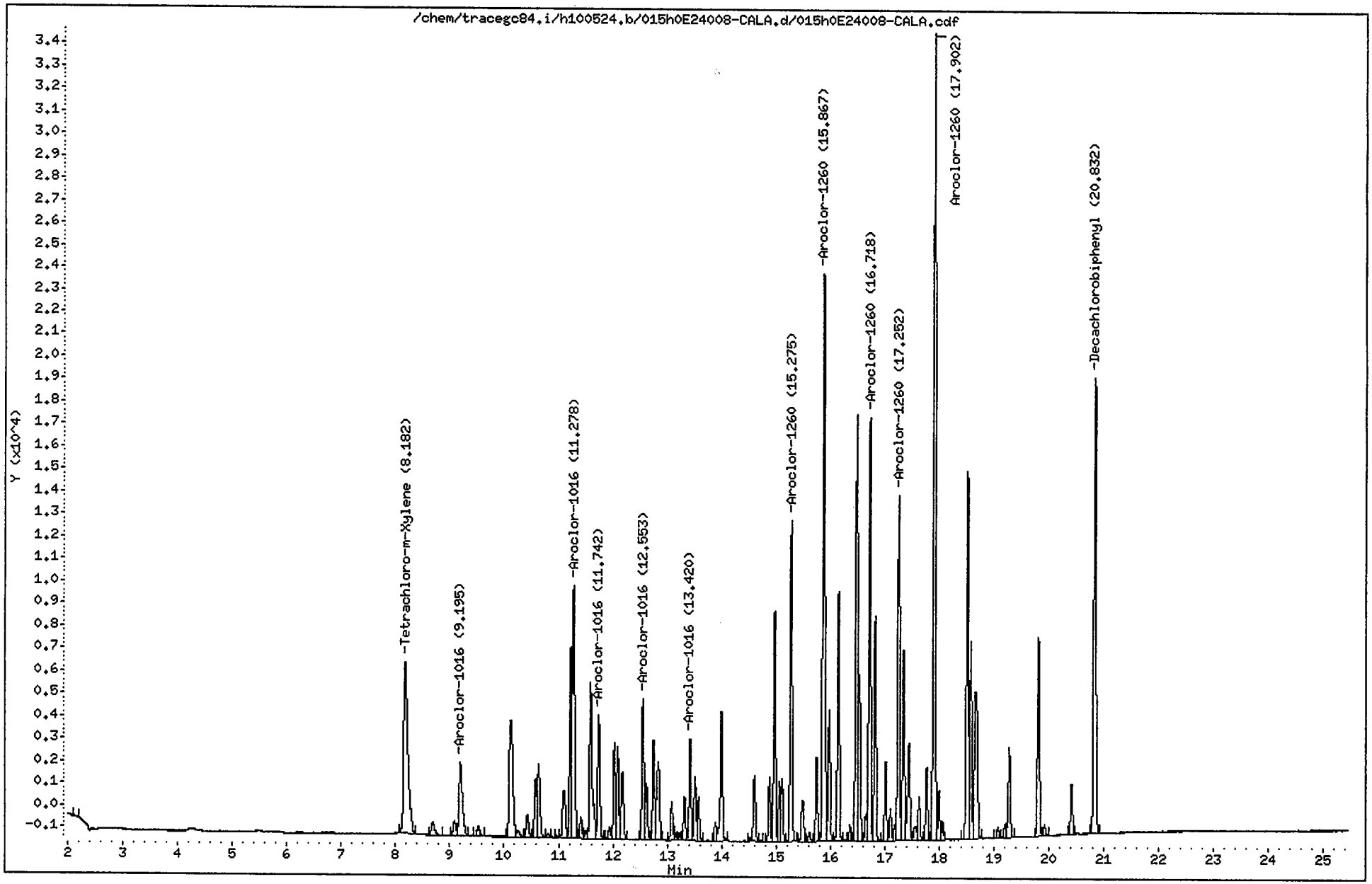
CompuChem

Lab Smp Id : 0E24008-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 24-MAY-2010 20:36 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16604HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.06		3348					
15.11		3684					
15.28	15.21 15.35	19723	26679	Aroclor-1260 Peak 1	0.800000	24653	
15.49		2912					
15.61		583					
15.74		4883					
15.87	15.80 15.94	38679	52337	Aroclor-1260 Peak 2	0.800000	48347	
15.98		7915					
16.14		15425					
16.36		878					
16.48		27749					
16.53		9657					
16.65		1377					
16.72	16.65 16.79	25477	34082	Aroclor-1260 Peak 3	0.800000	31845	
16.82		13065					
17.02		4551					
17.11		1821					
17.18		756					
17.25	17.18 17.32	21196	28643	Aroclor-1260 Peak 4	0.800000	26495	
17.34		11569					
17.44		7169					
17.55		1104					
17.63		2387					
17.77		4176					
17.90	17.83 17.97	47226	63755	Aroclor-1260 Peak 5	0.800000	59031	
17.99		2779					
18.06		978					
18.51		22334					
18.57		11940					
18.67		14041					
19.07		601					
19.20		673					
19.28		5715					
19.81		12016					
19.93		613					
20.41		3009					
20.83	20.77 20.91	31088	444411	Decachlorobiphenyl	0.080000	406850	

Data File: /chem/tracegc84.i/h100524.b/015h0E24008-CALA.d
Date : 24-MAY-2010 21:05
Client ID: AR16605HA
Sample Info: 0E24008-CALA
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 24-MAY-2010 21:05 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16605HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.45			240					
1.48			3488					
1.52			23810					
2.12			147					
8.18	8.11	8.25	41229	539702	Tetrachloro-m-Xylene	0.080000	525013	
8.69			2547					
9.09			2422					
9.20	9.13	9.27	14047	9223	Aroclor-1016 Peak 1	1.600000	8778.750	
9.52			1630					
10.12			24742					
10.25			1271					
10.43			3489					
10.58			7052					
10.64			10799					
10.82			379					
10.97			286					
11.10			8278					
11.22			20901					
11.28	11.21	11.35	34283	23879	Aroclor-1016 Peak 2	1.600000	21427	
11.41			2705					
11.51			895					
11.59			23758					
11.74	11.67	11.81	15342	10671	Aroclor-1016 Peak 3	1.600000	9588.125	
11.94			1437					
12.03			11304					
12.09			11447					
12.18			9540					
12.55	12.48	12.62	16760	11763	Aroclor-1016 Peak 4	1.600000	10475	
12.62			6521					
12.75			11396					
12.84			13416					
13.08			4432					
13.14			693					
13.22			658					
13.32			4834					
13.42	13.35	13.49	11450	7944	Aroclor-1016 Peak 5	1.600000	7156.250	
13.51			7654					
13.58			4946					
13.88			2017					
13.99			15983					
14.52			299					
14.60			7916					

CompuChem

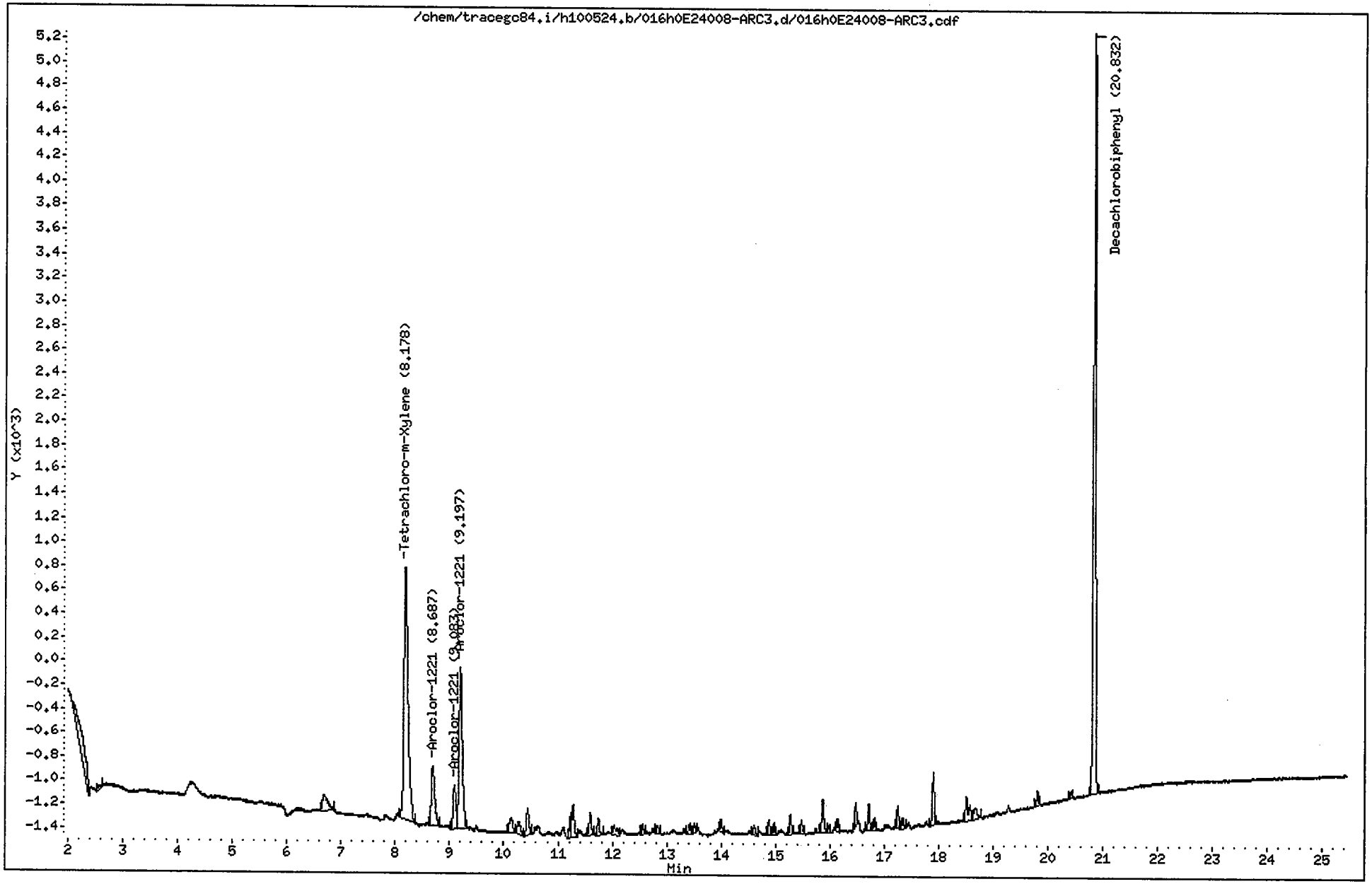
Lab Smp Id : 0E24008-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 24-MAY-2010 21:05 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR16605HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.71		123					
14.88		6978					
14.97		25078					
15.06		6291					
15.11		6916					
15.28	15.21 15.35	35778	26679	Aroclor-1260 Peak 1	1.600000	22361	
15.48		5541					
15.62		1156					
15.74		9130					
15.87	15.80 15.94	71878	52337	Aroclor-1260 Peak 2	1.600000	44924	
15.98		14539					
16.14		28650					
16.26		199					
16.36		1720					
16.48		51787					
16.53		17752					
16.65		2800					
16.72	16.65 16.79	47270	34082	Aroclor-1260 Peak 3	1.600000	29543	
16.82		24356					
17.02		8630					
17.10		3469					
17.18		1551					
17.25	17.18 17.32	39093	28643	Aroclor-1260 Peak 4	1.600000	24433	
17.34		21437					
17.44		13531					
17.55		2232					
17.63		4624					
17.77		7952					
17.90	17.83 17.97	88772	63755	Aroclor-1260 Peak 5	1.600000	55483	
17.99		5287					
18.06		1904					
18.51		41739					
18.57		21786					
18.66		26048					
19.07		1194					
19.20		1334					
19.28		10911					
19.81		22432					
19.93		1274					
20.41		5711					
20.83	20.77 20.91	56810	444411	Decachlorobiphenyl	0.160000	369881	

Data File: /chem/tracegc84.i/h100524.b/016h0E24008-ARC3.d
Date : 24-MAY-2010 21:34
Client ID: AR12213HA
Sample Info: 0E24008-ARC3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

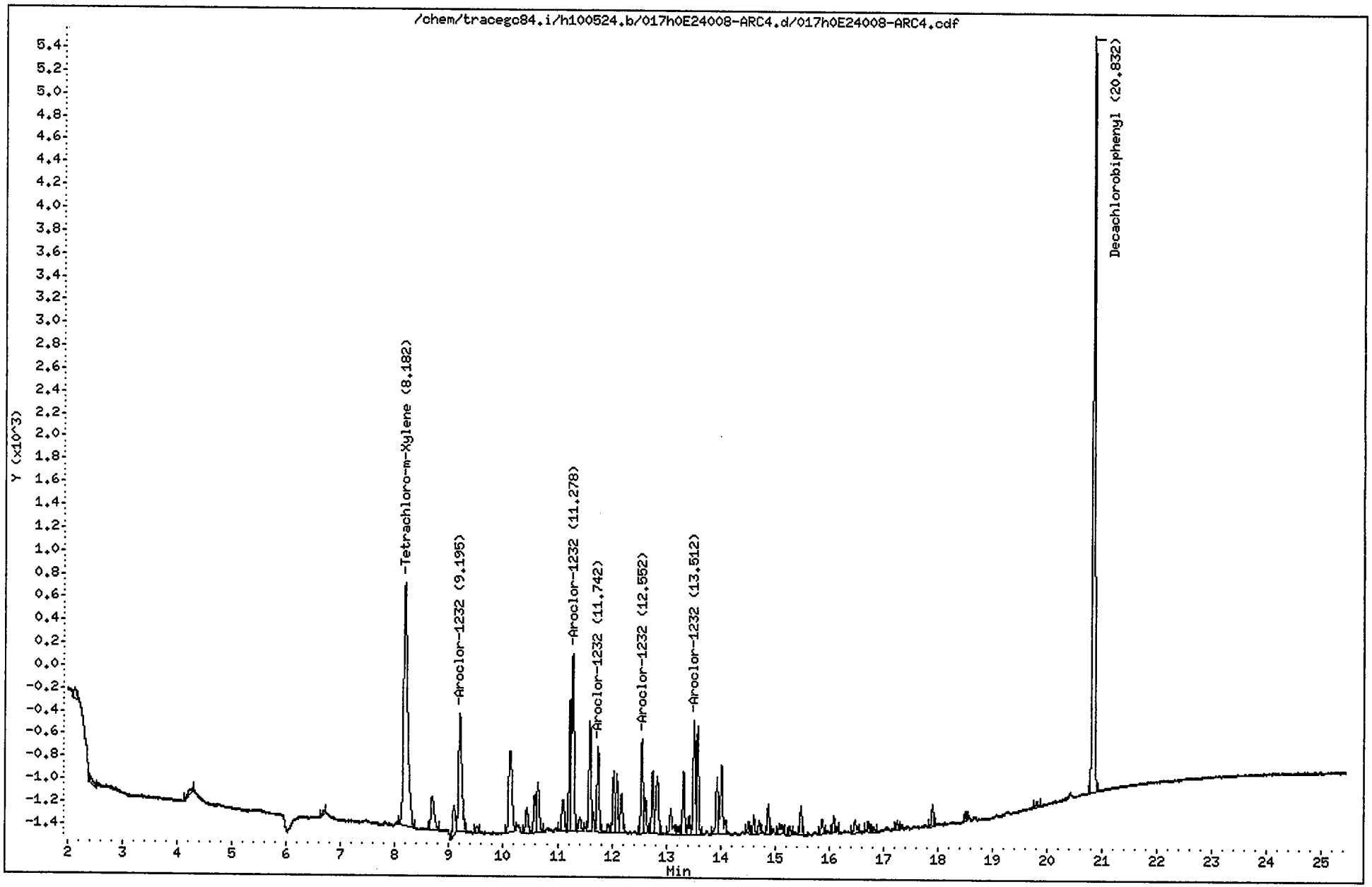
Lab Smp Id : 0E24008-ARC3 Client Smp Id : AR12213HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 24-MAY-2010 21:34 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR12213HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.51			37695					
2.12			2278					
2.56			126					
6.70			888					
8.18	8.11	8.25	11047	539702	Tetrachloro-m-Xylene	0.020000	529650	
8.69	8.62	8.76	2179	5445	Aroclor-1221 Peak 2	0.400000	5445.000	
9.08	9.01	9.15	1344	3360	Aroclor-1221 Peak 3	0.400000	3360.000	
9.20	9.13	9.27	5631	14075	Aroclor-1221 Peak 4	0.400000	14075	
10.13			559					
10.27			460					
10.44			737					
11.23			458					
11.28			824					
11.59			484					
11.75			406					
12.03			374					
12.55			185					
12.84			231					
13.42			208					
13.51			165					
13.99			256					
14.61			212					
14.88			293					
14.97			237					
15.27			377					
15.48			269					
15.86			792					
15.98			124					
16.15			241					
16.48			449					
16.71			492					
16.82			234					
17.25			411					
17.34			208					
17.90			1056					
18.51			799					
18.68			395					
19.81			295					
20.41			137					
20.83	20.77	20.91	17859	444411	Decachlorobiphenyl	0.040000	435725	

Data File: /chem/tracegc84.i/h100524.b/017h0E24008-ARC4.d
Date : 24-MAY-2010 22:03
Client ID: AR12323HA
Sample Info: 0E24008-ARC4
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 24-MAY-2010 22:03 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.41		139					
1.52		33255					
2.12		262					
2.42		237					
4.23		352					
6.70		142					
8.18	8.11 8.25	11194	539702	Tetrachloro-m-Xylene	0.020000	529650	
8.69		1307					
9.09		876					
9.20	9.13 9.27	4321	10802	Aroclor-1232 Peak 1	0.400000	10803	
9.52		182					
10.13		3182					
10.43		762					
10.58		959					
10.64		1377					
11.10		1023					
11.23		2813					
11.28	11.21 11.35	4725	11810	Aroclor-1232 Peak 2	0.400000	11810	
11.41		379					
11.59		2759					
11.74	11.67 11.81	2034	5082	Aroclor-1232 Peak 3	0.400000	5082.500	
11.94		170					
12.03		1387					
12.09		1331					
12.18		1066					
12.55	12.48 12.62	2161	5402	Aroclor-1232 Peak 4	0.400000	5402.500	
12.62		731					
12.75		1346					
12.84		1780					
13.08		758					
13.22		164					
13.32		1395					
13.42		428					
13.51	13.44 13.58	2548	6368	Aroclor-1232 Peak 5	0.400000	6367.500	
13.58		2397					
13.93		1370					
14.02		2020					
14.52		250					
14.61		386					
14.71		264					
14.88		633					
15.09		356					

CompuChem

Lab Smp Id : 0E24008-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 24-MAY-2010 22:03 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.28		181					
15.48		569					
15.87		355					
16.09		424					
16.48		361					
16.72		207					
16.82		129					
17.25		178					
17.90		463					
18.51		173					
19.81		157					
20.83	20.77 20.91	18129	444411	Decachlorobiphenyl	0.040000	435725	

Data File: /chem/tracegc84.i/h100524.b/018h0E24008-ARC5.d

Date : 24-MAY-2010 22:32

Client ID: AR12423HA

Sample Info: 0E24008-ARC5

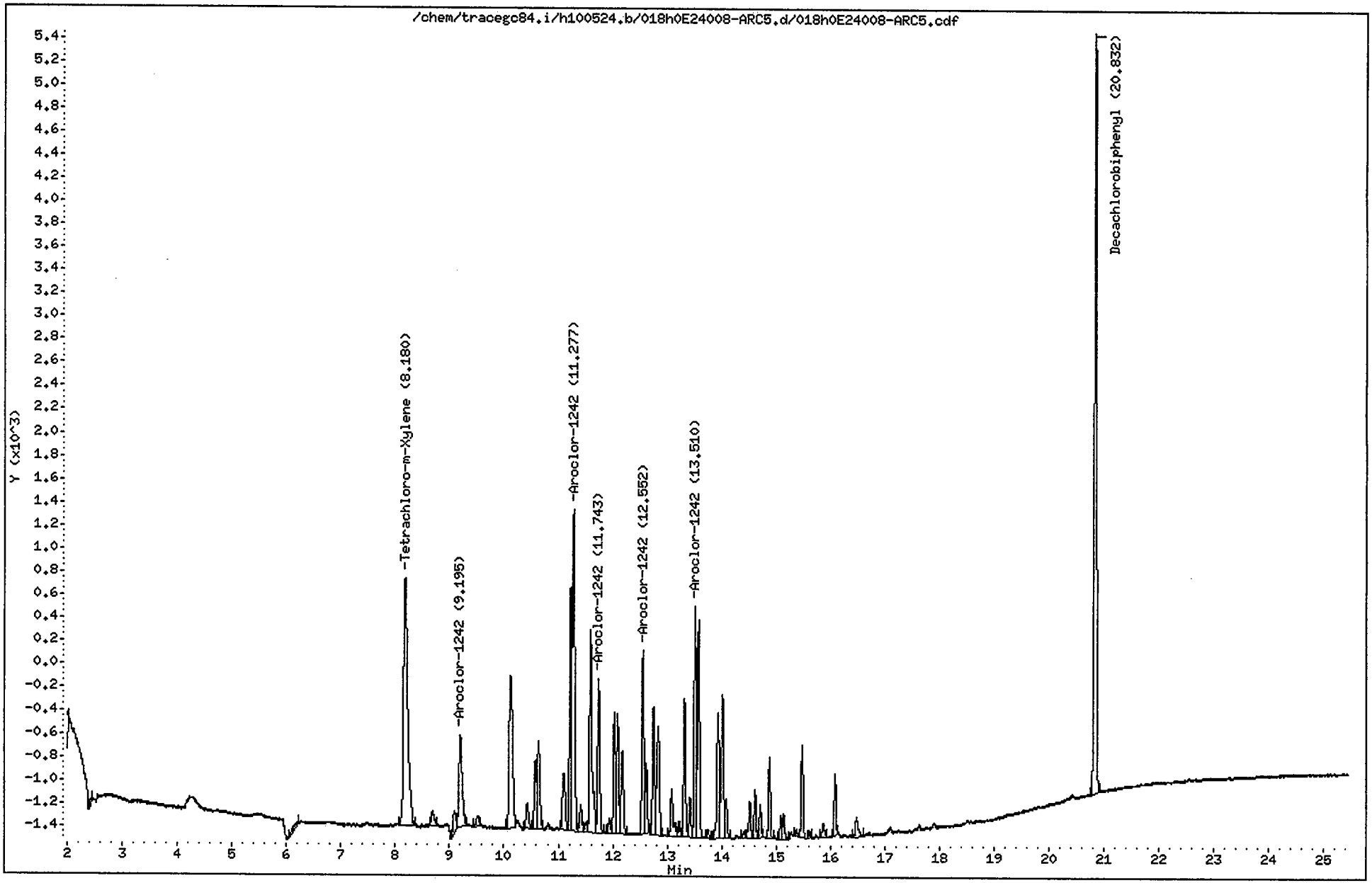
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 24-MAY-2010 22:32 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR12423HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.41			211					
1.52			33115					
2.43			132					
6.20			200					
8.18	8.11	8.25	11337	539702	Tetrachloro-m-Xylene	0.020000	529650	
8.68			498					
9.09			639					
9.20	9.13	9.27	3339	8348	Aroclor-1242 Peak 1	0.400000	8347.500	
9.53			301					
10.12			5894					
10.43			675					
10.58			1622					
10.64			2463					
11.10			1814					
11.23			5190					
11.28	11.21	11.35	8201	20502	Aroclor-1242 Peak 2	0.400000	20503	
11.41			675					
11.51			219					
11.59			5687					
11.74	11.67	11.81	3643	9108	Aroclor-1242 Peak 3	0.400000	9107.500	
11.94			347					
12.03			2629					
12.09			2855					
12.17			2287					
12.55	12.48	12.62	4094	10232	Aroclor-1242 Peak 4	0.400000	10233	
12.62			1471					
12.75			2792					
12.84			3357					
13.08			1355					
13.22			304					
13.32			2918					
13.42			854					
13.51	13.44	13.58	5015	12535	Aroclor-1242 Peak 5	0.400000	12535	
13.57			4777					
13.75			189					
13.94			3045					
14.02			3786					
14.08			824					
14.40			125					
14.52			854					
14.61			988					
14.71			694					

CompuChem

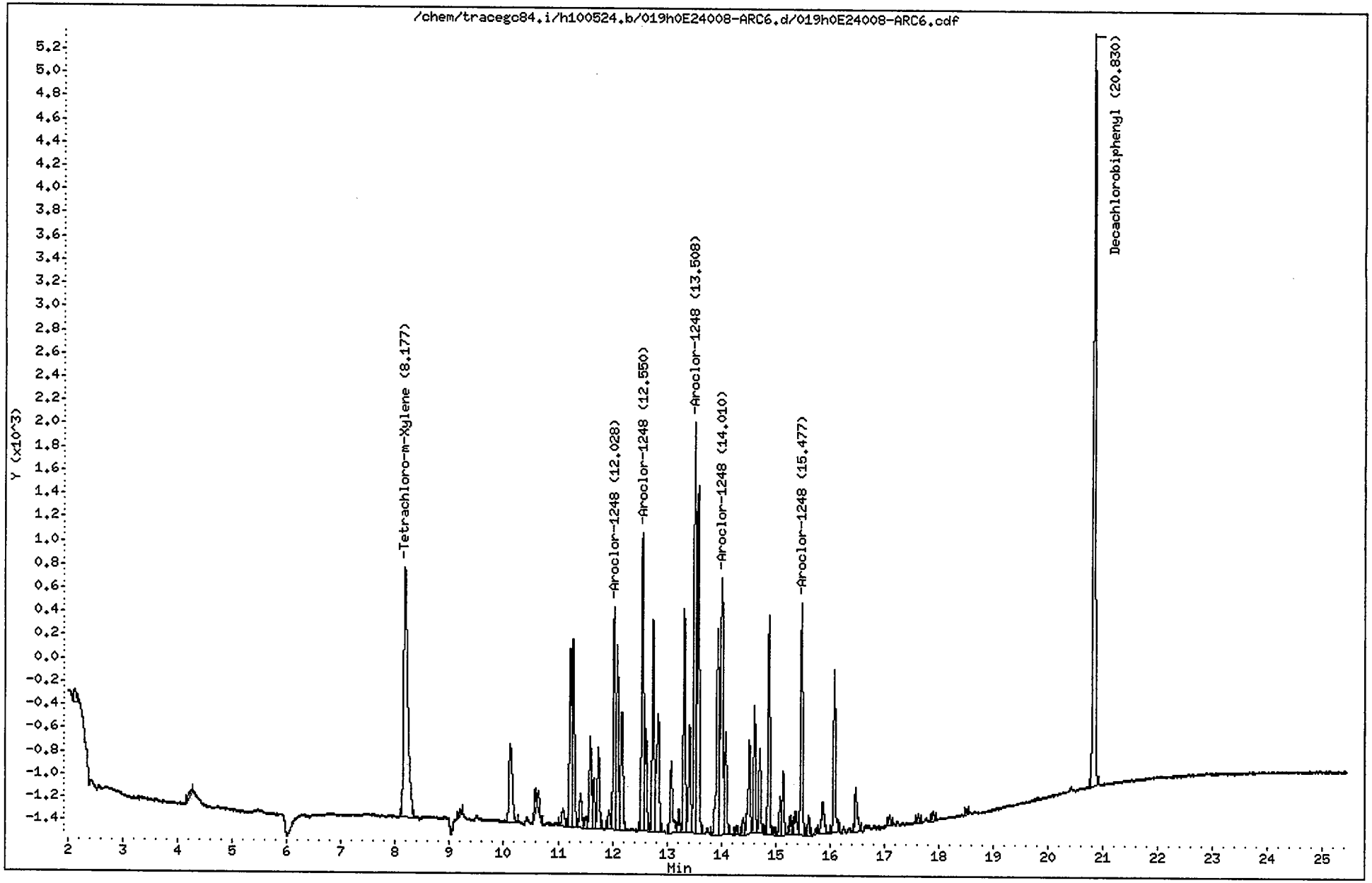
Lab Smp Id : 0E24008-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 24-MAY-2010 22:32 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR12423HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.88		1668					
15.09		478					
15.14		564					
15.38		136					
15.48		1903					
15.62		147					
15.87		400					
16.08		1207					
16.48		624					
20.83	20.77 20.91	18083	444411	Decachlorobiphenyl	0.040000	435725	

Data File: /chem/tracegc84.i/h100524.b/019h0E24008-ARC6.d
Date : 24-MAY-2010 23:01
Client ID: AR12483HA
Sample Info: 0E24008-ARC6
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 24-MAY-2010 23:01 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.51		33743					
2.12		341					
4.24		222					
8.18	8.11 8.25	11144	539702	Tetrachloro-m-Xylene	0.020000	529650	
9.20		136					
10.12		2887					
10.58		435					
10.64		391					
11.09		543					
11.22		4040					
11.28		4629					
11.41		861					
11.51		260					
11.59		2166					
11.65		1167					
11.74		1908					
11.94		437					
12.03	11.96 12.10	5049	12622	Aroclor-1248 Peak 1	0.400000	12623	
12.09		4131					
12.17		3225					
12.55	12.48 12.62	6637	16592	Aroclor-1248 Peak 2	0.400000	16593	
12.61		2211					
12.74		4667					
12.84		3731					
13.08		1858					
13.22		476					
13.32		4786					
13.42		2431					
13.51	13.44 13.58	8996	22488	Aroclor-1248 Peak 3	0.400000	22487	
13.57		7736					
13.93		5579					
14.01	13.94 14.08	7371	18425	Aroclor-1248 Peak 4	0.400000	18425	
14.08		2225					
14.28		149					
14.40		362					
14.52		2287					
14.61		2618					
14.71		1757					
14.88		4564					
14.97		131					
15.09		856					
15.14		1397					

CompuChem

Lab Smp Id : 0E24008-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 24-MAY-2010 23:01 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.28		390					
15.33		200					
15.37		609					
15.48	15.41 15.55	4767	11915	Aroclor-1248 Peak 5	0.400000	11915	
15.61		402					
15.74		130					
15.87		983					
16.08		3516					
16.48		1217					
17.11		242					
17.63		187					
17.90		217					
18.51		125					
20.83	20.77 20.91	17882	444411	Decachlorobiphenyl	0.040000	435725	

Data File: /chem/tracegc84.i/h100524.b/020h0E24008-ARC7.d

Date : 24-MAY-2010 23:30

Client ID: AR12543HA

Instrument: tracegc84.i

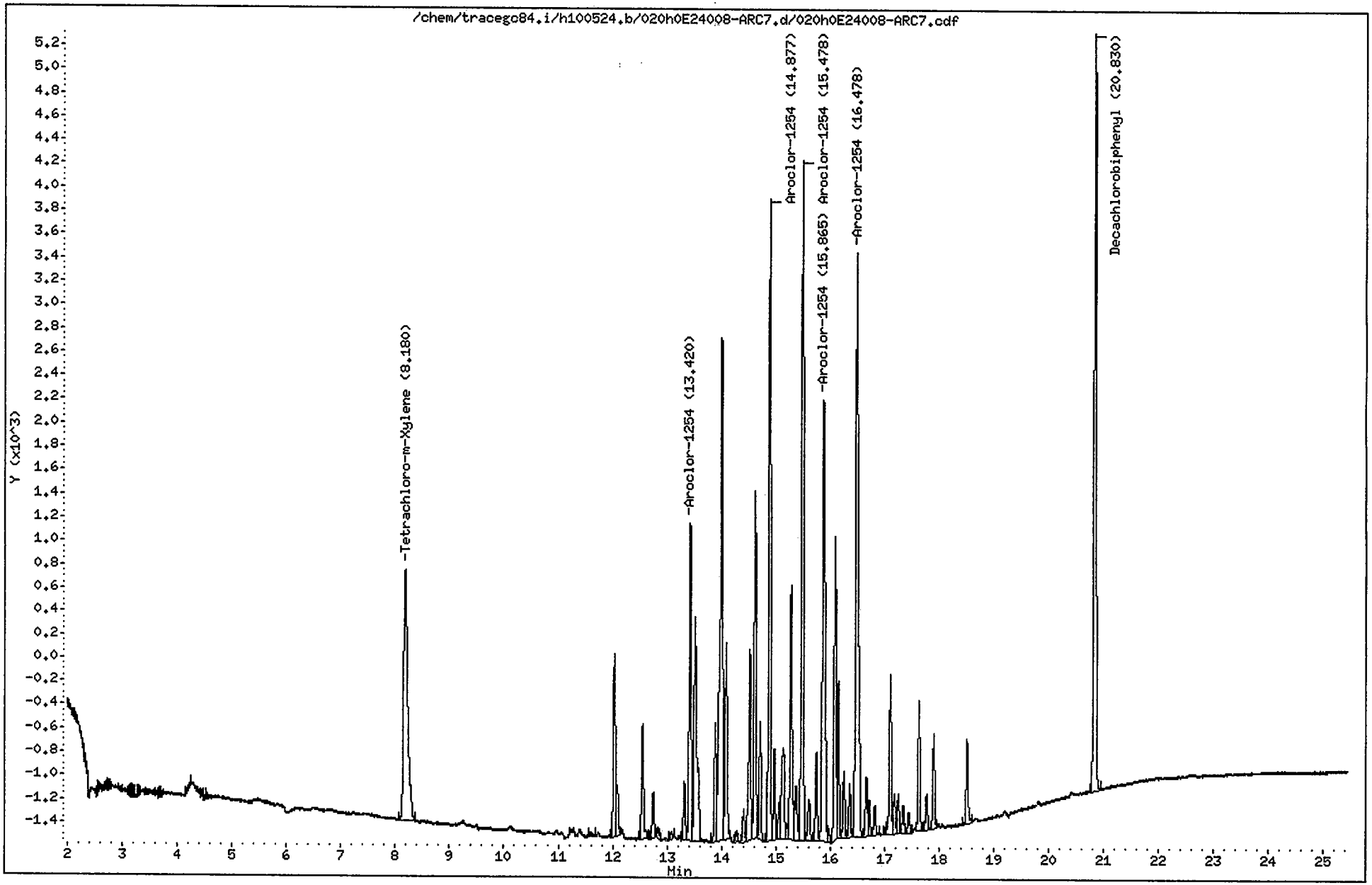
Sample Info: 0E24008-ARC7

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 24-MAY-2010 23:30 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.41		246					
1.52		29141					
2.12		217					
3.20		222					
4.23		176					
8.18	8.11 8.25	11200	539702	Tetrachloro-m-Xylene	0.020000	529650	
11.60		129					
12.03		4075					
12.09		979					
12.55		2635					
12.75		942					
12.84		229					
13.09		140					
13.32		1206					
13.42	13.35 13.49	6854	17135	Aroclor-1254 Peak 1	0.400000	17135	
13.51		6918					
13.88		2338					
13.99		13957					
14.08		4286					
14.27		226					
14.41		665					
14.52		4246					
14.61		7388					
14.71		2283					
14.88	14.81 14.95	13230	33072	Aroclor-1254 Peak 2	0.400000	33073	
14.97		1770					
15.06		614					
15.14		3039					
15.21		264					
15.27		5728					
15.37		1307					
15.48	15.41 15.55	14260	35648	Aroclor-1254 Peak 3	0.400000	35647	
15.61		980					
15.74		1746					
15.86	15.80 15.94	12447	31118	Aroclor-1254 Peak 4	0.400000	31117	M
15.97		302					
16.08		6286					
16.14		3064					
16.25		1302					
16.36		1055					
16.48	16.41 16.55	16138	40342	Aroclor-1254 Peak 5	0.400000	40343	
16.66		1254					

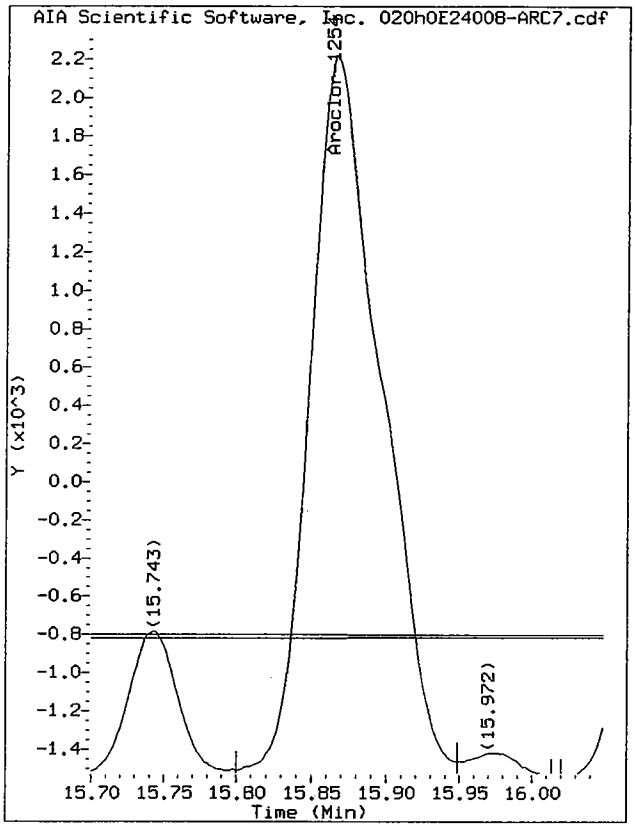
Rev 5/26/10

CompuChem

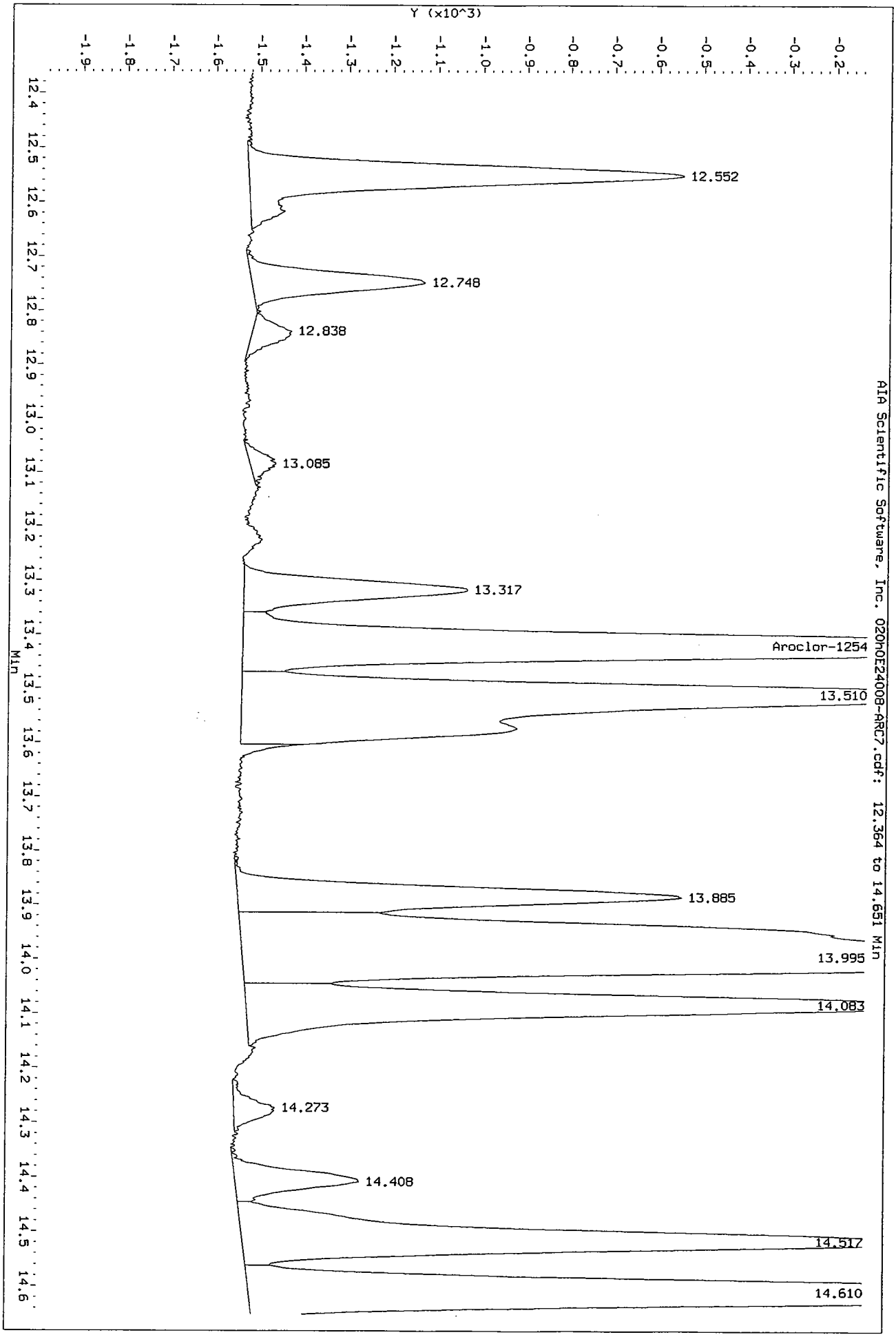
Lab Smp Id : 0E24008-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 24-MAY-2010 23:30 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.71		691					
16.82		605					
17.02		123					
17.10		3404					
17.18		835					
17.25		797					
17.34		556					
17.45		436					
17.63		2549					
17.77		743					
17.90		1938					
18.51		1801					
20.83	20.77 20.91	17567	444411	Decachlorobiphenyl	0.040000	435725	

Manually Integrated Peaks



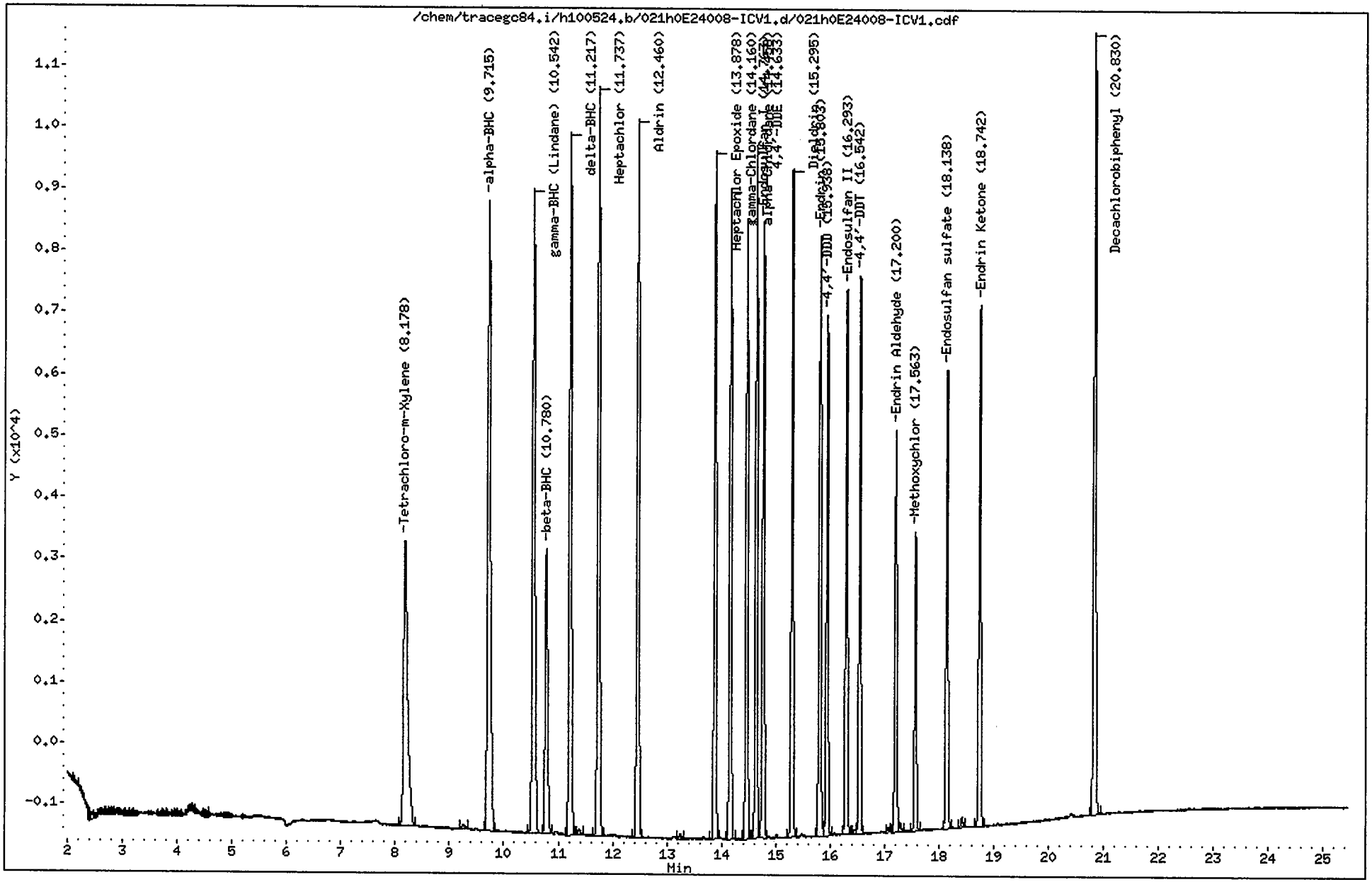
Start: 15.80 Stop: 15.95


Data File: /chem/tracegc84.i/h100524.b/02Oh0E24008-ARC7.d/02Oh0E24008-ARC7.cdf
Injection Date: 24-MAY-2010 23:30
Instrument: tracegc84.i
Client Sample ID: AR12543HA
Y (x10^3)
-0.2
-0.3
-0.4
-0.5
-0.6
-0.7
-0.8
-0.9
-1.0
-1.1
-1.2
-1.3
-1.4
-1.5
-1.6
-1.7
-1.8
-1.9
12.552
12.748
12.838
13.085
13.317
Aroclor-1254
13.510
13.885
13.995
14.083
14.273
14.408
14.517
14.610
12.4
12.5
12.6
12.7
12.8
12.9
13.0
13.1
13.2
13.3
13.4
13.5
13.6
13.7
13.8
13.9
14.0
14.1
14.2
14.3
14.4
14.5
14.6
Min
AIA Scientific Software, Inc. 02Oh0E24008-ARC7.cdf: 12.364 to 14.651 Min

Data File: /chem/tracegc84.i/h100524.b/021h0E24008-ICV1.d
Date : 24-MAY-2010 23:58
Client ID: PESTCHKHA
Sample Info: 0E24008-ICV1
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ICV1 Client Smp Id : PESTCHKHA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 24-MAY-2010 23:58 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : INDAchek
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : PESTCHKHA

RT	AREA
0.28	147
0.35	133
0.39	123
0.48	176
0.56	200
1.01	131
1.05	293
1.42	282
1.53	10428
2.11	291
2.42	364
2.69	248
2.75	230
2.83	136
3.08	152
3.74	232
3.96	202
4.30	219
4.47	137
4.52	265
8.18	24145
9.25	252
9.71	37832
10.54	34312
10.78	14414
11.22	33124
11.39	263
11.74	35004
12.46	31721
13.24	213
13.88	28032
14.16	26678
14.46	25501
14.63	26377
14.76	25349
15.29	26898
15.80	24792
15.94	20004
16.29	22440
16.45	199
16.54	21654
17.06	158
17.20	16409
17.29	334
17.56	11425

SM2

CompuChem

Lab Smp Id : 0E24008-ICV1 Client Smp Id : PESTCHKHA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 24-MAY-2010 23:58 Inst ID :
Operator : AHW Spike Sublist : INDAchek
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : PESTCHKHA

RT	AREA
18.14	19075
18.42	417
18.74	22256
20.83	35107

Data File: /chem/tracegc84.i/h100524.b/022h0E24008-ICV2.d

Date : 25-MAY-2010 00:27

Client ID: PCBCHKHA

Sample Info: 0E24008-ICV2

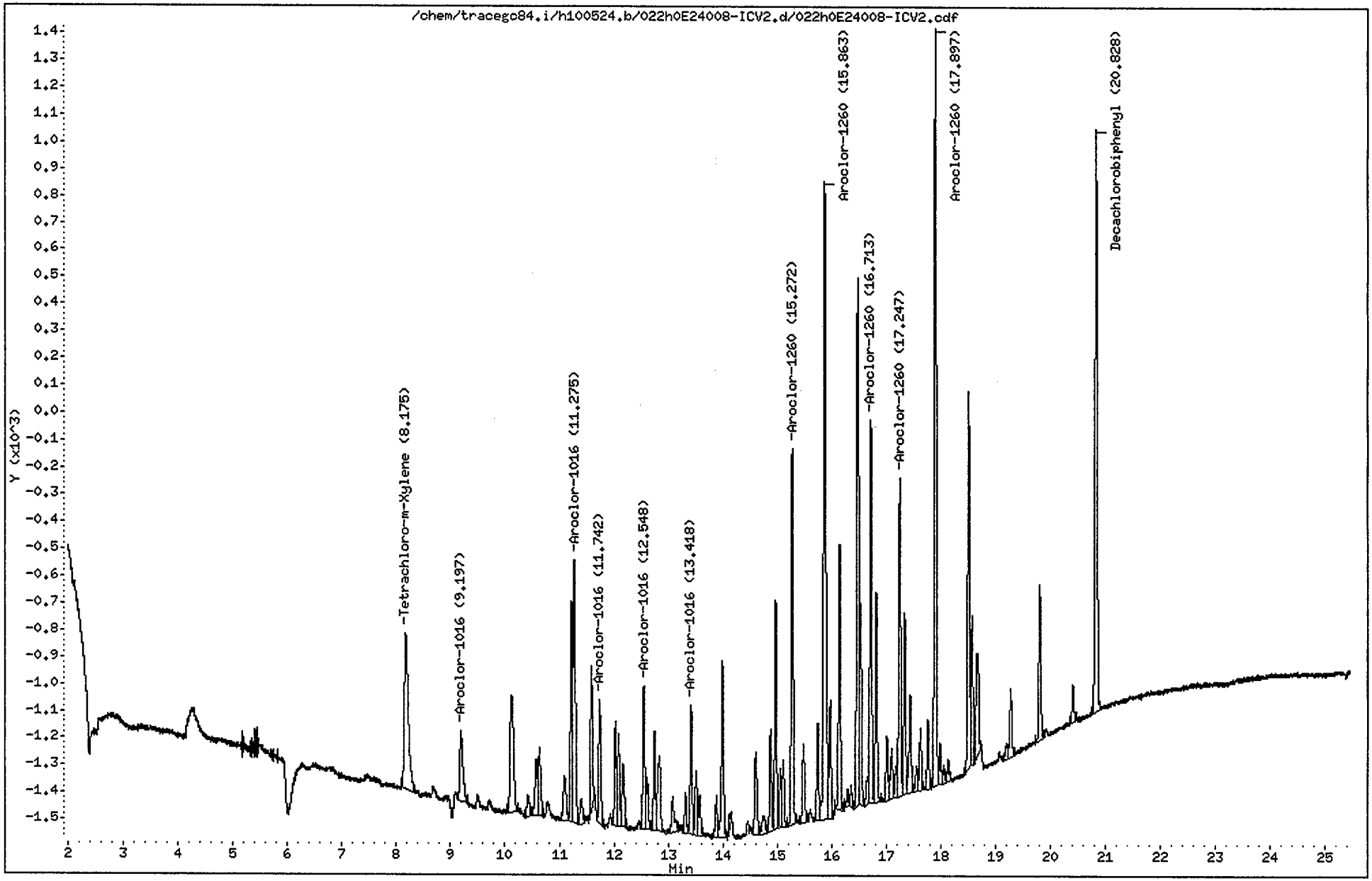
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 25-MAY-2010 00:27 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : PCBCHKHA

RT	AREA
1.44	294
1.52	31700
8.18	2931
9.20	1022
10.12	1925
10.43	273
10.58	649
10.64	769
11.10	605
11.22	2058
11.28	2770
11.40	289
11.59	1320
11.74	1228
12.03	964
12.09	871
12.17	726
12.55	1350
12.62	464
12.74	902
12.84	1021
13.08	430
13.32	354
13.42	1158
13.51	603
13.58	390
13.88	371
13.99	1728
14.13	150
14.60	917
14.76	283
14.88	898
14.97	1964
15.06	491
15.11	592
15.27	3409
15.48	813
15.74	842
15.86	7023
15.97	1058
16.14	2387
16.30	141
16.36	176
16.48	5278
16.53	1721

CompuChem

Lab Smp Id : 0E24008-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 25-MAY-2010 00:27 Inst ID :
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/h100524.b/8081A_clpestv6.m
Misc. Info : PCBCHKHA

RT	AREA
16.65	240
16.71	3395
16.82	1849
17.01	572
17.10	534
17.18	304
17.25	2935
17.34	1589
17.44	1013
17.56	254
17.63	538
17.76	614
17.90	6737
17.99	343
18.06	152
18.14	198
18.51	3396
18.57	1241
18.66	1366
19.20	152
19.28	689
19.81	1401
20.41	324
20.83	5725

Data File: /chem/tracegc84.i/h100524_2C.b/003h0E24008-PEM1.d

Date : 24-MAY-2010 15:18

Client ID: PEMHA

Sample Info: 0E24008-PEM1

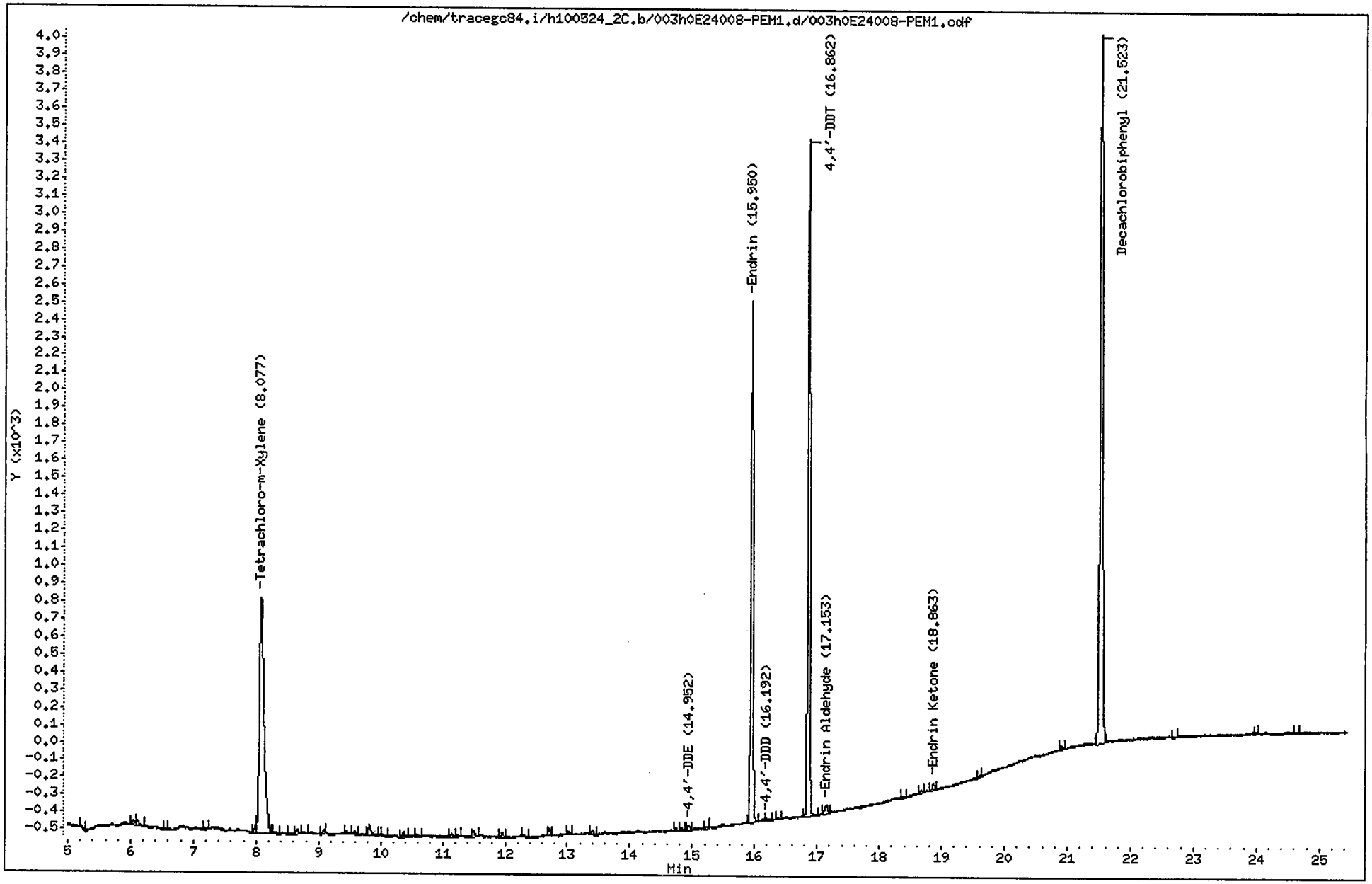
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: System

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-PEM1 Client Smp Id : PEMHA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 24-MAY-2010 15:18 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.05		34								
1.41		184								
1.53		8090								
1.95		1352								
2.43		133								
2.52		89								
2.93		24								
5.22		47								
6.05		74								
6.11		116								
6.56		25								
7.18		23								
8.00		123								
8.08	8.01 8.15	6649	345165	Tetrachloro-m-Xylene	0.019262	0.019262		97.3	43 - 135	
8.31		47								
8.55		32								
8.66		90								
8.75		33								
9.08		37								
9.45		51								
9.58		56								
9.82		210								
10.02		25								
10.37		79								
10.58		44								
11.14		47								
11.23		22								
11.49		100								
11.96		80								
12.30		27								
12.71		83								
13.03		30								
13.41		74								
14.74		37								
14.83		35								
14.95	14.88 15.02	69	352110	4,4'-DDE	0.000197	0.000197	0.020000			J
15.24		35								

AHW
5/25/10

CompuChem

Lab Smp Id : 0E24008-PEM1 Client Smp Id : PEMHA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 24-MAY-2010 15:18 Inst ID :
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHA

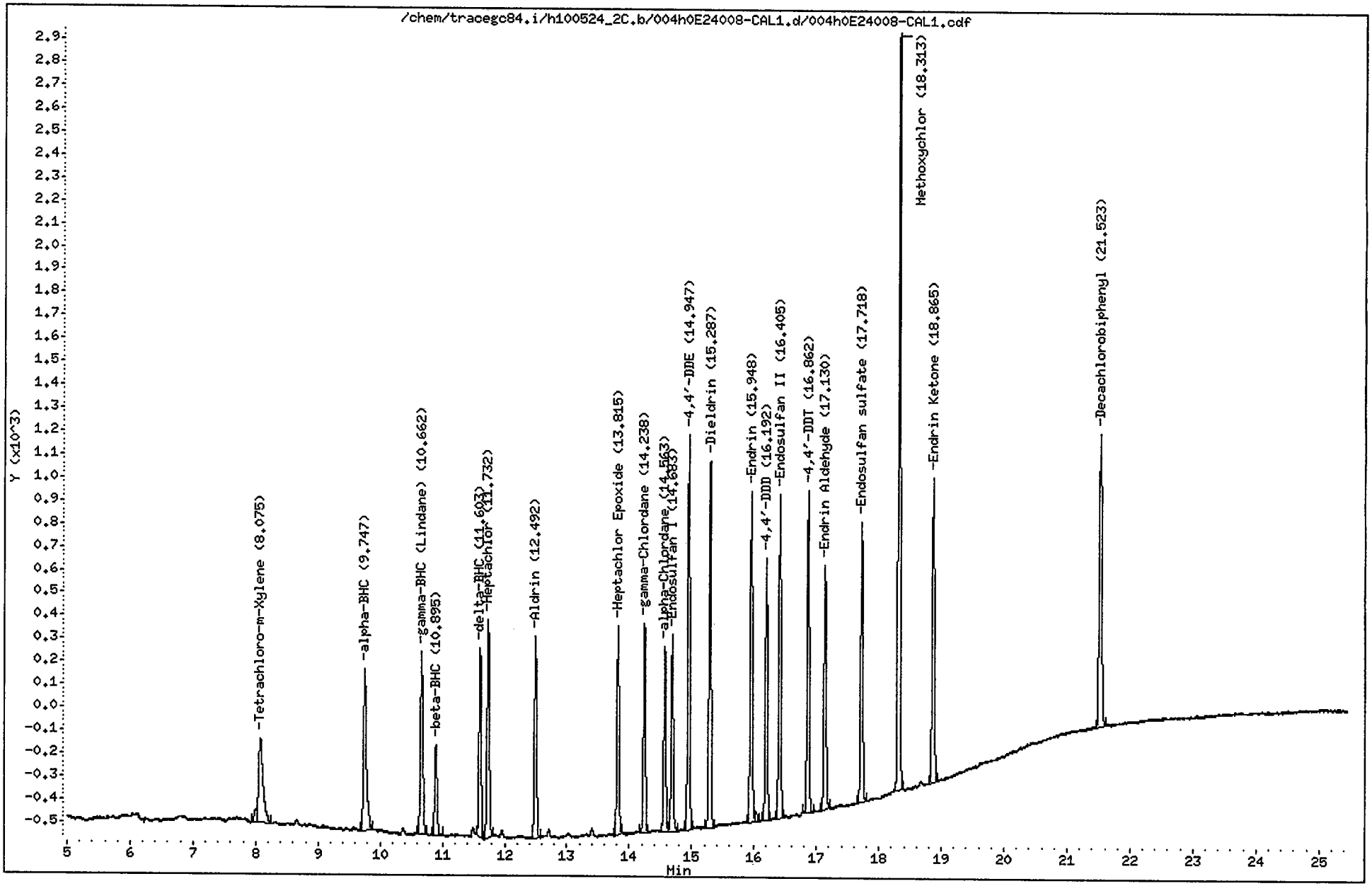
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
15.95	15.88 16.02	7040	319049	Endrin	0.022064	0.022064	0.020000			
16.19	16.12 16.26	39	248368	4,4'-DDD	0.000158	0.000158	0.020000			J
16.36		20								
16.86	16.79 16.93	8712	294834	4,4'-DDT	0.029550	0.029550	0.020000			
17.15	17.06 17.20	169	239136	Endrin Aldehyde	0.000705	0.000705	0.020000			J
18.39		24								
18.66		50								
18.86	18.80 18.94	98	304950	Endrin Ketone	0.000321	0.000321	0.020000			J
19.61		24								
20.91		52								
21.52	21.45 21.59	11807	301734	Decachlorobiphenyl	0.039129	0.039129		98.8	43 - 144	
22.68		20								
23.98		36								
24.64		22								

Data File: /chem/tracegc84.i/h100524_2C.b/004h0E24008-CAL1.d
Date : 24-MAY-2010 15:46
Client ID: INDC1HA
Sample Info: 0E24008-CAL1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

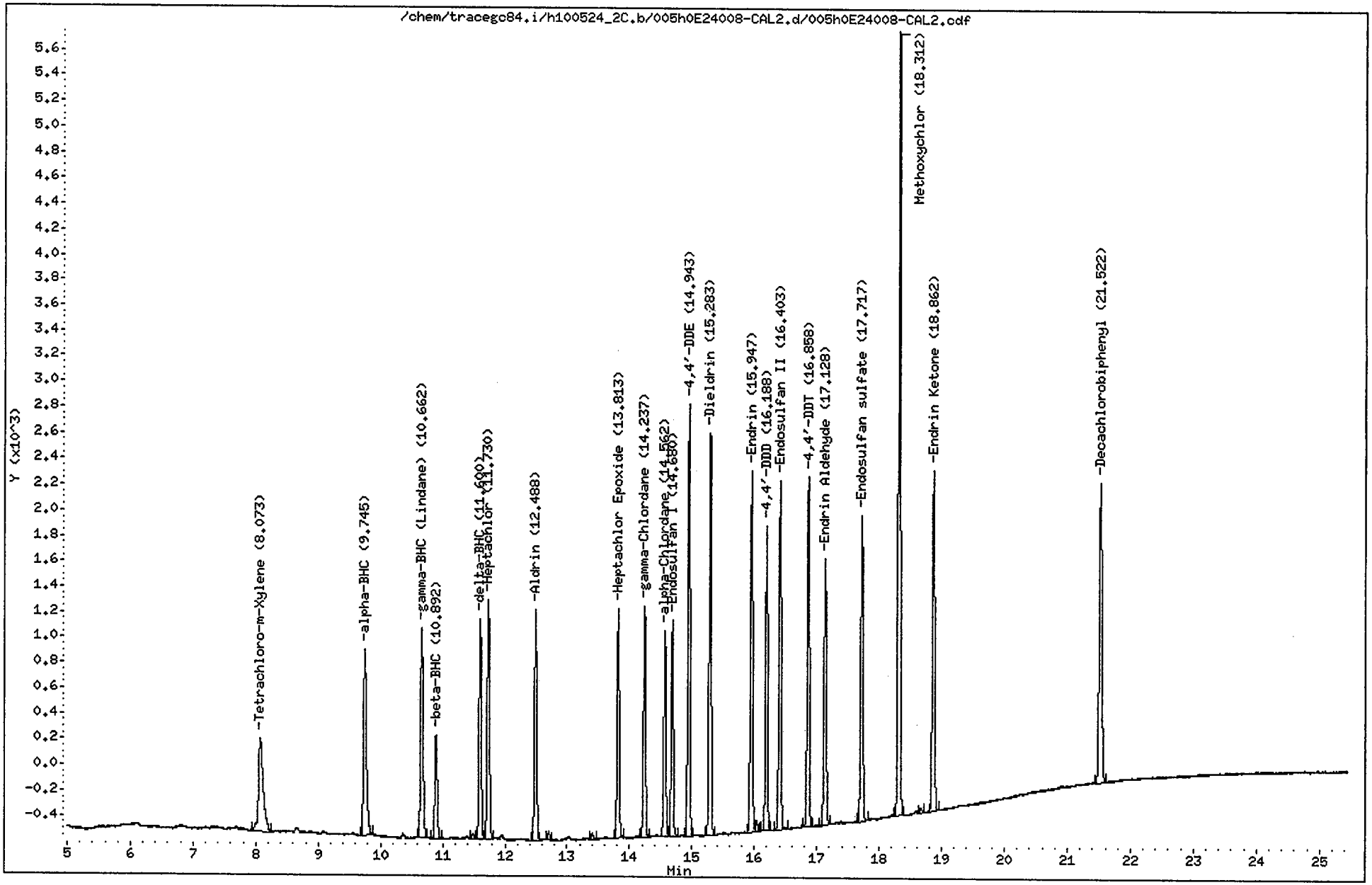
Lab Smp Id : 0E24008-CAL1 Client Smp Id : INDC1HA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 24-MAY-2010 15:46 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : INDC1HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52			139053					
2.52			231					
8.01			159					
8.08	8.00	8.14	1820	345165	Tetrachloro-m-Xylene	0.005000	364000	
9.75	9.68	9.82	2314	473680	alpha-BHC	0.005000	462600	
10.66	10.59	10.73	2177	450035	gamma-BHC (Lindane)	0.005000	435400	
10.90	10.82	10.96	1059	203322	beta-BHC	0.005000	211600	
11.60	11.53	11.67	1988	416372	delta-BHC	0.005000	397600	
11.73	11.66	11.80	2406	447981	Heptachlor	0.005500	437455	
12.49	12.42	12.56	2135	415475	Aldrin	0.005000	427000	
13.82	13.74	13.88	2092	397168	Heptachlor Epoxide	0.005000	418400	
14.24	14.17	14.31	2069	394802	gamma-Chlordane	0.005000	413800	
14.56	14.49	14.63	1869	348692	alpha-Chlordane	0.005000	373800	
14.68	14.61	14.75	2033	375212	Endosulfan I	0.005000	406600	
14.95	14.88	15.02	3789	352110	4,4'-DDE	0.010000	378800	
15.29	15.22	15.36	3676	348230	Dieldrin	0.010000	367600	
15.95	15.88	16.02	3420	319049	Endrin	0.010000	342000	
16.04			100					
16.19	16.12	16.26	2506	248368	4,4'-DDD	0.010000	250600	
16.40	16.34	16.48	3250	304391	Endosulfan II	0.010000	325000	
16.86	16.79	16.93	3121	294834	4,4'-DDT	0.010000	312100	
17.13	17.06	17.20	2604	239136	Endrin Aldehyde	0.010000	260400	
17.72	17.65	17.79	2889	267371	Endosulfan sulfate	0.010000	288800	
18.31	18.24	18.38	7507	129586	Methoxychlor	0.050000	150120	
18.86	18.79	18.93	3214	304950	Endrin Ketone	0.010000	321400	
21.52	21.45	21.59	3641	301734	Decachlorobiphenyl	0.010000	364000	

AHW
5/25/10

Data File: /chem/tracegc84.i/h100524_2C.b/005h0E24008-CAL2.d
Date : 24-MAY-2010 16:15
Client ID: INDC2HA
Sample Info: 0E24008-CAL2
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

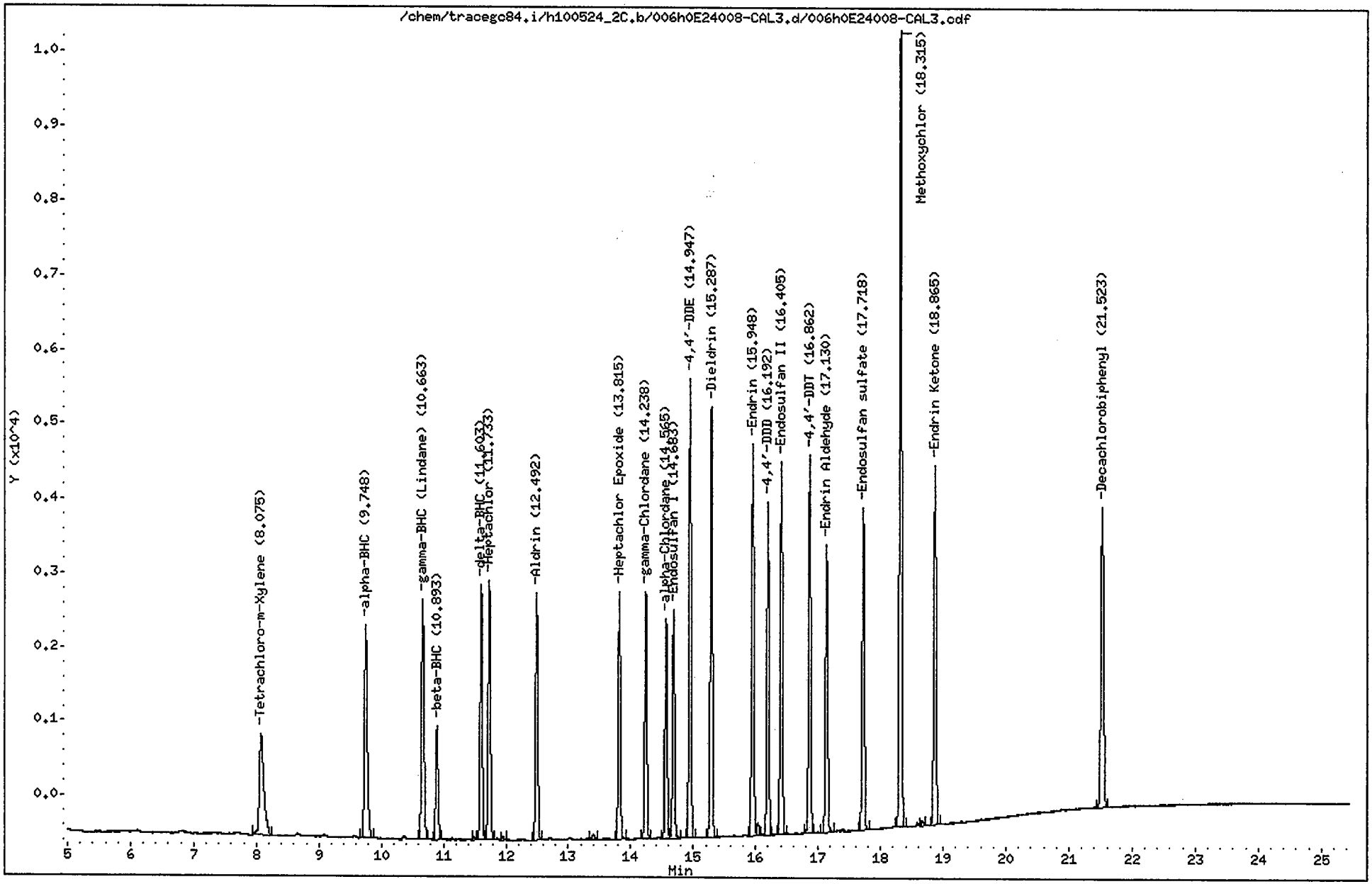
Lab Smp Id : 0E24008-CAL2 Client Smp Id : INDC2HA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 24-MAY-2010 16:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : INDC2HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.42			104					
1.52			12030					
1.78			4787					
1.94			9391					
2.51			190					
8.07	8.00	8.14	3729	345165	Tetrachloro-m-Xylene	0.010000	372900	
9.74	9.68	9.82	4711	473680	alpha-BHC	0.010000	471000	
10.66	10.59	10.73	4530	450035	gamma-BHC (Lindane)	0.010000	452900	
10.89	10.82	10.96	2117	203322	beta-BHC	0.010000	211600	
11.49			105					
11.60	11.53	11.67	4145	416372	delta-BHC	0.010000	414400	
11.73	11.66	11.80	4771	447981	Heptachlor	0.010000	477000	
12.49	12.42	12.56	4328	415475	Aldrin	0.010000	432800	
12.71			147					
13.40			107					
13.81	13.74	13.88	4193	397168	Heptachlor Epoxide	0.010000	419200	
14.24	14.17	14.31	4173	394802	gamma-Chlordane	0.010000	417200	
14.56	14.49	14.63	3692	348692	alpha-Chlordane	0.010000	369100	
14.68	14.61	14.75	3981	375212	Endosulfan I	0.010000	398100	
14.94	14.88	15.02	7473	352110	4,4'-DDE	0.020000	373650	
15.28	15.22	15.36	7320	348230	Dieldrin	0.020000	365950	
15.95	15.88	16.02	6732	319049	Endrin	0.020000	336600	
16.04			175					
16.19	16.12	16.26	5149	248368	4,4'-DDD	0.020000	257400	
16.40	16.34	16.48	6450	304391	Endosulfan II	0.020000	322500	
16.86	16.79	16.93	6168	294834	4,4'-DDT	0.020000	308400	
17.13	17.06	17.20	5149	239136	Endrin Aldehyde	0.020000	257400	
17.72	17.65	17.79	5784	267371	Endosulfan sulfate	0.020000	289150	
18.31	18.24	18.38	14473	129586	Methoxychlor	0.100000	144730	
18.67			93					
18.86	18.79	18.93	6522	304950	Endrin Ketone	0.020000	326100	
21.52	21.45	21.59	6785	301734	Decachlorobiphenyl	0.020000	339250	

AHW
5/25/10

Data File: /chem/tracegc84.i/h100524_2C.b/006h0E24008-CAL3.d
Date : 24-MAY-2010 16:44
Client ID: INDC3HA
Sample Info: 0E24008-CAL3
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL3 Client Smp Id : INDC3HA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 24-MAY-2010 16:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3HA

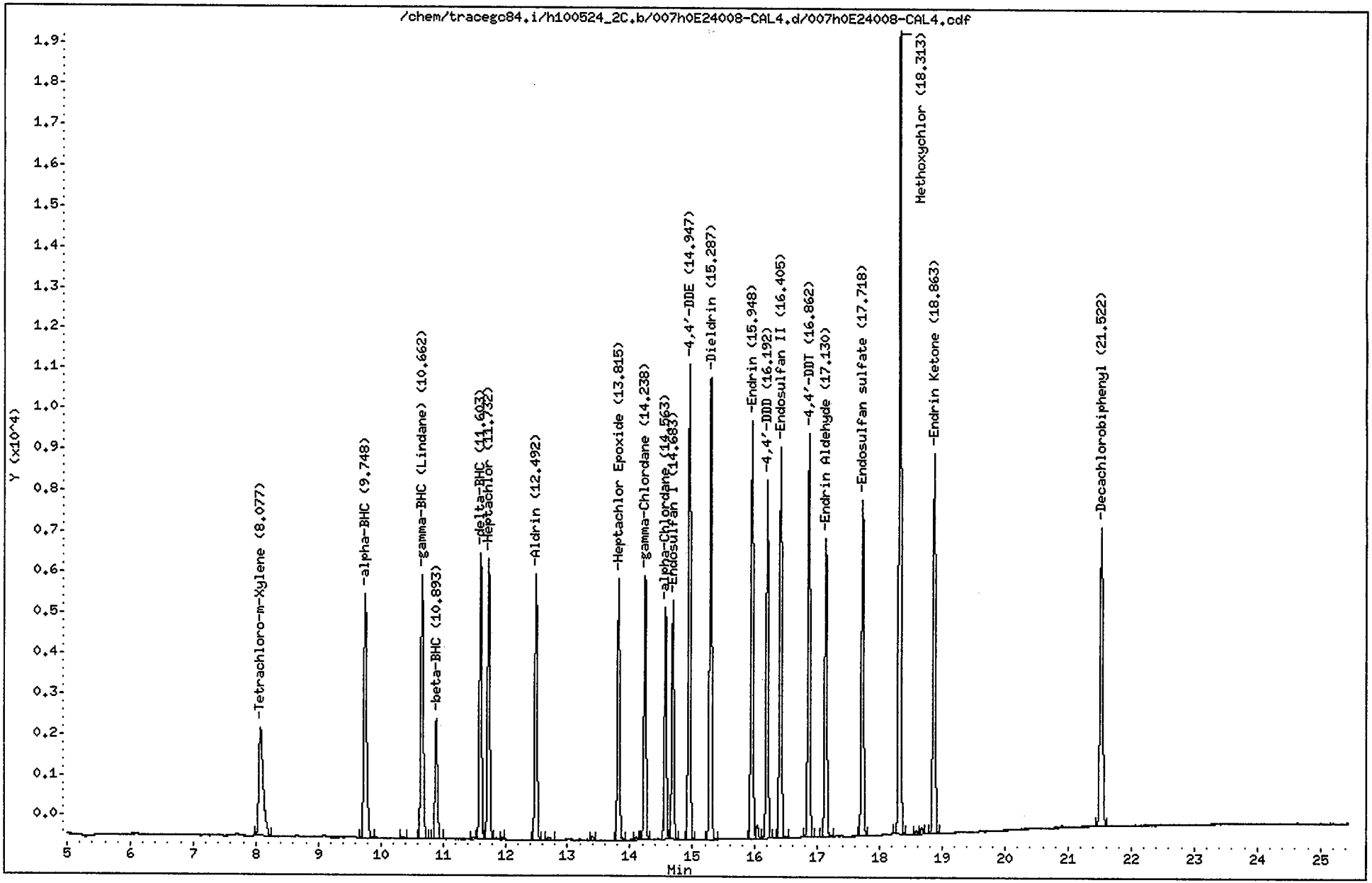
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.42			95					
1.53			2365					
1.78			879					
1.94			4794					
2.54			147					
8.08	8.00	8.14	6826	345165	Tetrachloro-m-Xylene	0.020000	341300	
9.75	9.68	9.82	9258	473680	alpha-BHC	0.020000	462900	
10.66	10.59	10.73	8875	450035	gamma-BHC (Lindane)	0.020000	443700	
10.89	10.82	10.96	4012	203322	beta-BHC	0.020000	200600	
11.49			113					
11.60	11.53	11.67	8199	416372	delta-BHC	0.020000	409900	
11.73	11.66	11.80	9032	447981	Heptachlor	0.020000	451550	
11.95			96					
12.49	12.42	12.56	8217	415475	Aldrin	0.020000	410850	
13.40			176					
13.82	13.74	13.88	7877	397168	Heptachlor Epoxide	0.020000	393850	
14.24	14.17	14.31	7803	394802	gamma-Chlordane	0.020000	390150	
14.56	14.49	14.63	6906	348692	alpha-Chlordane	0.020000	345300	
14.68	14.61	14.75	7442	375212	Endosulfan I	0.020000	372100	
14.95	14.88	15.02	13875	352110	4,4'-DDE	0.040000	346850	
15.29	15.22	15.36	13776	348230	Dieldrin	0.040000	344400	
15.95	15.88	16.02	12645	319049	Endrin	0.040000	316125	
16.04			373					
16.19	16.12	16.26	9881	248368	4,4'-DDD	0.040000	247000	
16.40	16.34	16.48	12057	304391	Endosulfan II	0.040000	301425	
16.86	16.79	16.93	11604	294834	4,4'-DDT	0.040000	290100	
17.13	17.06	17.20	9571	239136	Endrin Aldehyde	0.040000	239250	
17.72	17.65	17.79	10565	267371	Endosulfan sulfate	0.040000	264100	
18.32	18.24	18.38	25485	129586	Methoxychlor	0.200000	127420	
18.67			157					
18.86	18.79	18.93	12076	304950	Endrin Ketone	0.040000	301875	
21.52	21.45	21.59	11795	301734	Decachlorobiphenyl	0.040000	294875	

AHW
5/25/10

Data File: /chem/tracegc84.i/h100524_2C.b/007h0E24008-CAL4.d
Date : 24-MAY-2010 17:13
Client ID: INDC4HA
Sample Info: 0E24008-CAL4
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

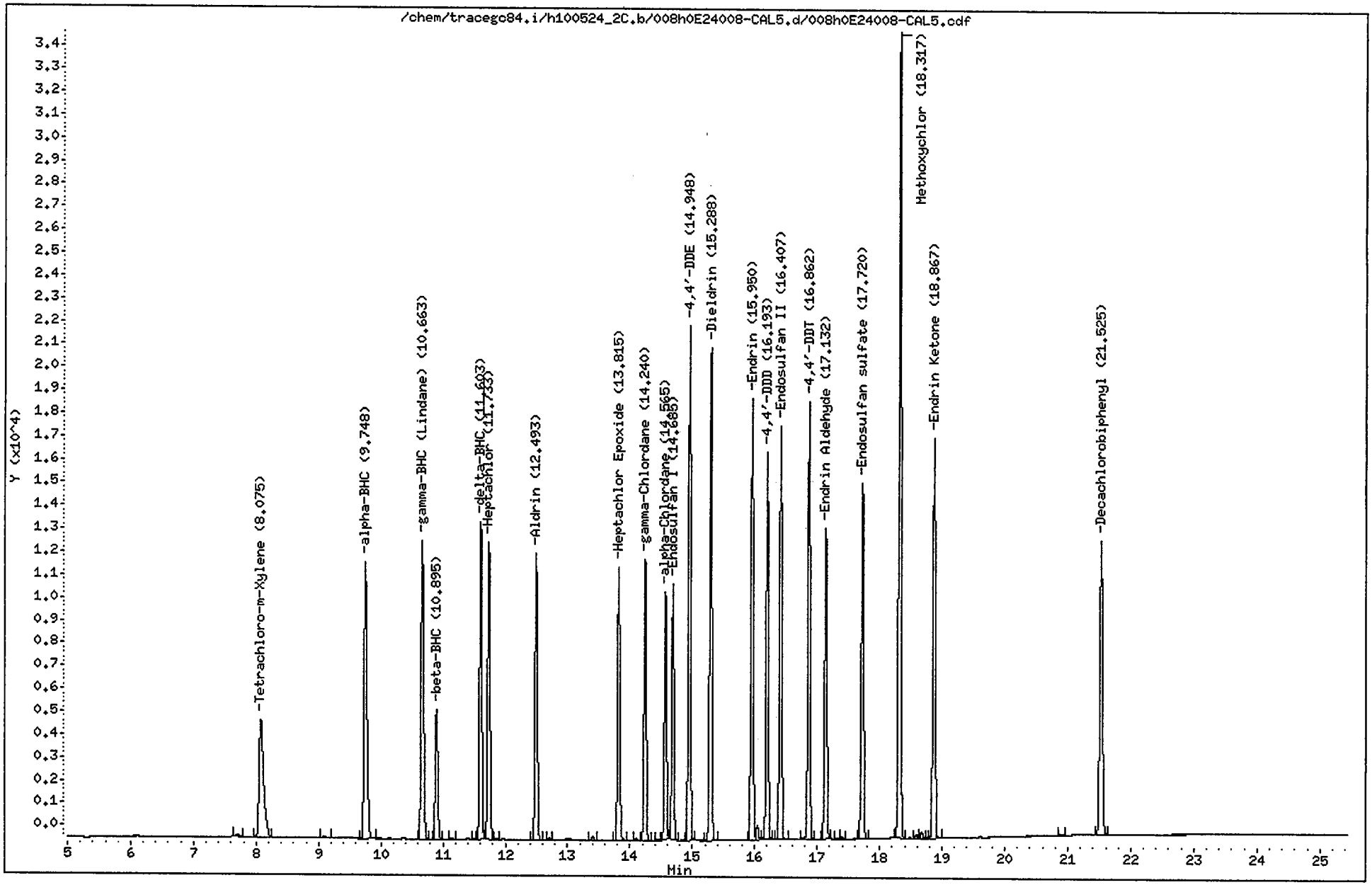
Lab Smp Id : 0E24008-CAL4 Client Smp Id : INDC4HA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 24-MAY-2010 17:13 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : INDC4HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.47			1508					
1.52			5834					
1.94			183					
2.55			163					
8.08	8.00	8.14	13062	345165	Tetrachloro-m-Xylene	0.040000	326525	
9.75	9.68	9.82	19267	473680	alpha-BHC	0.040000	481675	
10.37			130					
10.66	10.59	10.73	18299	450035	gamma-BHC (Lindane)	0.040000	457450	
10.89	10.82	10.96	7973	203322	beta-BHC	0.040000	199300	
11.48			121					
11.60	11.53	11.67	17082	416372	delta-BHC	0.040000	427050	
11.73	11.66	11.80	17750	447981	Heptachlor	0.040000	443725	
11.95			96					
12.49	12.42	12.56	16324	415475	Aldrin	0.040000	408100	
12.71			156					
13.40			242					
13.82	13.74	13.88	15408	397168	Heptachlor Epoxide	0.040000	385175	
14.10			162					
14.24	14.17	14.31	15315	394802	gamma-Chlordane	0.040000	382850	
14.56	14.49	14.63	13367	348692	alpha-Chlordane	0.040000	334150	
14.68	14.61	14.75	14319	375212	Endosulfan I	0.040000	357975	
14.95	14.88	15.02	26956	352110	4,4'-DDE	0.080000	336937	
15.29	15.22	15.36	27010	348230	Dieldrin	0.080000	337625	
15.95	15.88	16.02	24492	319049	Endrin	0.080000	306150	
16.04			763					
16.19	16.12	16.26	19740	248368	4,4'-DDD	0.080000	246737	
16.40	16.34	16.48	23469	304391	Endosulfan II	0.080000	293363	
16.86	16.79	16.93	22842	294834	4,4'-DDT	0.080000	285525	
17.13	17.06	17.20	18109	239136	Endrin Aldehyde	0.080000	226363	
17.72	17.65	17.79	20358	267371	Endosulfan sulfate	0.080000	254463	
18.31	18.24	18.38	47351	129586	Methoxychlor	0.400000	118377	
18.59			192					
18.67			365					
18.86	18.79	18.93	23620	304950	Endrin Ketone	0.080000	295237	
21.52	21.45	21.59	21602	301734	Decachlorobiphenyl	0.080000	270025	

AHW
5/25/10

Data File: /chem/tracegc84.i/h100524_2C.b/008h0E24008-CAL5.d
Date : 24-MAY-2010 17:42
Client ID: INDC5HA
Sample Info: 0E24008-CAL5
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL5 Client Smp Id : INDC5HA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 24-MAY-2010 17:42 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : INDC5HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.47			1410					
1.53			791					
1.78			823					
1.95			4438					
2.54			145					
7.70			349					
8.08	8.00	8.14	25689	345165	Tetrachloro-m-Xylene	0.080000	321100	
9.09			316					
9.75	9.68	9.82	39218	473680	alpha-BHC	0.080000	490225	
10.66	10.59	10.73	36858	450035	gamma-BHC (Lindane)	0.080000	460725	
10.90	10.82	10.96	15481	203322	beta-BHC	0.080000	193513	
11.14			151					
11.49			102					
11.60	11.53	11.67	34633	416372	delta-BHC	0.080000	432913	
11.73	11.66	11.80	34415	447981	Heptachlor	0.080000	430175	
11.86			136					
12.49	12.42	12.56	31890	415475	Aldrin	0.080000	398625	
12.71			178					
13.40			429					
13.82	13.74	13.88	29538	397168	Heptachlor Epoxide	0.080000	369213	
14.10			176					
14.24	14.17	14.31	29602	394802	gamma-Chlordane	0.080000	370013	
14.45			97					
14.56	14.49	14.63	25690	348692	alpha-Chlordane	0.080000	321113	
14.68	14.61	14.75	27303	375212	Endosulfan I	0.080000	341287	
14.95	14.88	15.02	51890	352110	4,4'-DDE	0.160000	324313	
15.29	15.22	15.36	52092	348230	Dieldrin	0.160000	325575	
15.95	15.88	16.02	47099	319049	Endrin	0.160000	294369	
16.04			1457					
16.19	16.12	16.26	38416	248368	4,4'-DDD	0.160000	240100	
16.41	16.34	16.48	44748	304391	Endosulfan II	0.160000	279669	
16.86	16.79	16.93	44487	294834	4,4'-DDT	0.160000	278044	
17.13	17.06	17.20	33964	239136	Endrin Aldehyde	0.160000	212269	
17.32			140					
17.39			231					
17.72	17.65	17.79	38456	267371	Endosulfan sulfate	0.160000	240344	
18.32	18.24	18.38	85829	129586	Methoxychlor	0.800000	107285	
18.59			374					
18.67			705					
18.87	18.79	18.93	44822	304950	Endrin Ketone	0.160000	280137	
20.91			142					
21.52	21.45	21.59	38484	301734	Decachlorobiphenyl	0.160000	240519	

AHW
5/25/10

Data File: /chem/tracegc84.i/h100524_2C.b/009h0E24008-ARC1.d

Date : 24-MAY-2010 18:11

Client ID: TOXAPH3HA

Instrument: tracegc84.i

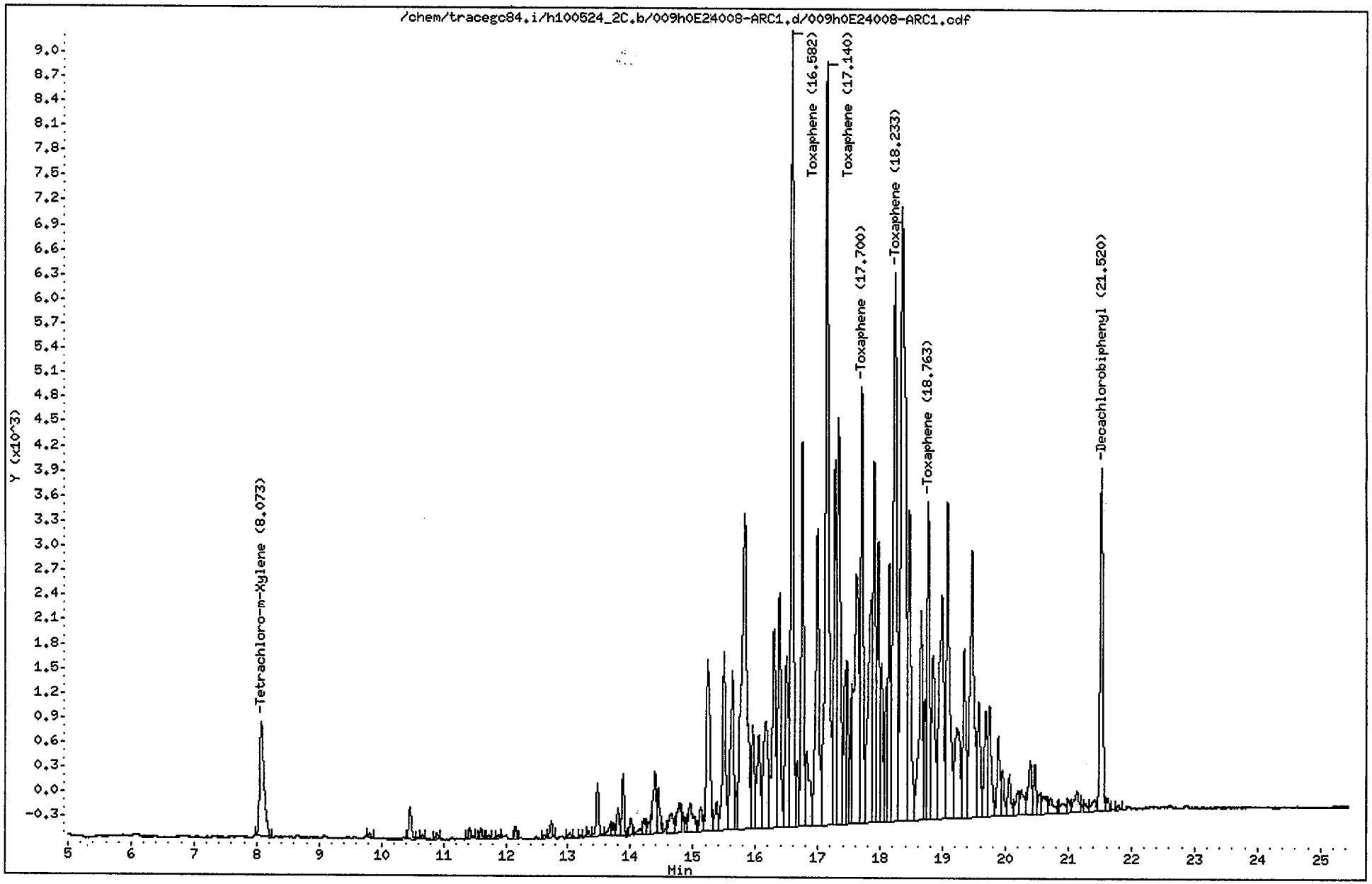
Sample Info: 0E24008-ARC1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 24-MAY-2010 18:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.42		116					
1.52		2105					
1.95		153					
2.41		100					
8.07	8.00 8.14	6623	345165	Tetrachloro-m-Xylene	0.020000	341300	
9.81		117					
10.46		1185					
10.66		122					
10.90		199					
11.42		392					
11.60		345					
11.73		114					
11.88		108					
12.16		369					
12.62		136					
12.73		541					
13.03		178					
13.21		35					
13.33		168					
13.47		1860					
13.68		482					
13.72		349					
13.80		937					
13.88		1779					
14.01		554					
14.15		265					
14.22		597					
14.29		388					
14.39		2788					
14.44		1653					
14.65		1203					
14.78		1740					
14.89		383					
14.95		1793					
15.13		943					
15.23		8439					
15.38		1204					
15.49		7155					
15.63		7218					
15.70		869					
15.82		23370					
15.95		4190					

AHW
5/25/10

CompuChem

Lab Smp Id : 0E24008-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 24-MAY-2010 18:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.05		4395					
16.16		7053					
16.29		9325					
16.38		9290					
16.49		7216					
16.58	16.51 16.65	27628	13814	Toxaphene Peak 1	2.000000	13814	
16.66		2123					
16.75		12999					
16.82		4351					
16.99		13496					
17.14	17.07 17.21	34049	17024	Toxaphene Peak 2	2.000000	17025	
17.27		12539					
17.32		17056					
17.43		4799					
17.46		4843					
17.54		3475					
17.61		16165					
17.70	17.63 17.77	15327	7663	Toxaphene Peak 3	2.000000	7663.000	
17.85		12633					
17.90		12798					
17.96		9453					
18.02		4928					
18.09		4211					
18.14		8440					
18.23	18.16 18.30	27574	13786	Toxaphene Peak 4	2.000000	13787	
18.35		40018					
18.46		12300					
18.65		9481					
18.71		3410					
18.76	18.69 18.83	10888	5444	Toxaphene Peak 5	2.000000	5444.000	
18.84		8168					
18.98		13296					
19.07		14085					
19.22		6809					
19.34		6974					
19.46		14441					
19.57		4999					
19.69		4473					
19.75		4740					
19.88		3057					
19.95		1803					
20.06		1726					

2M

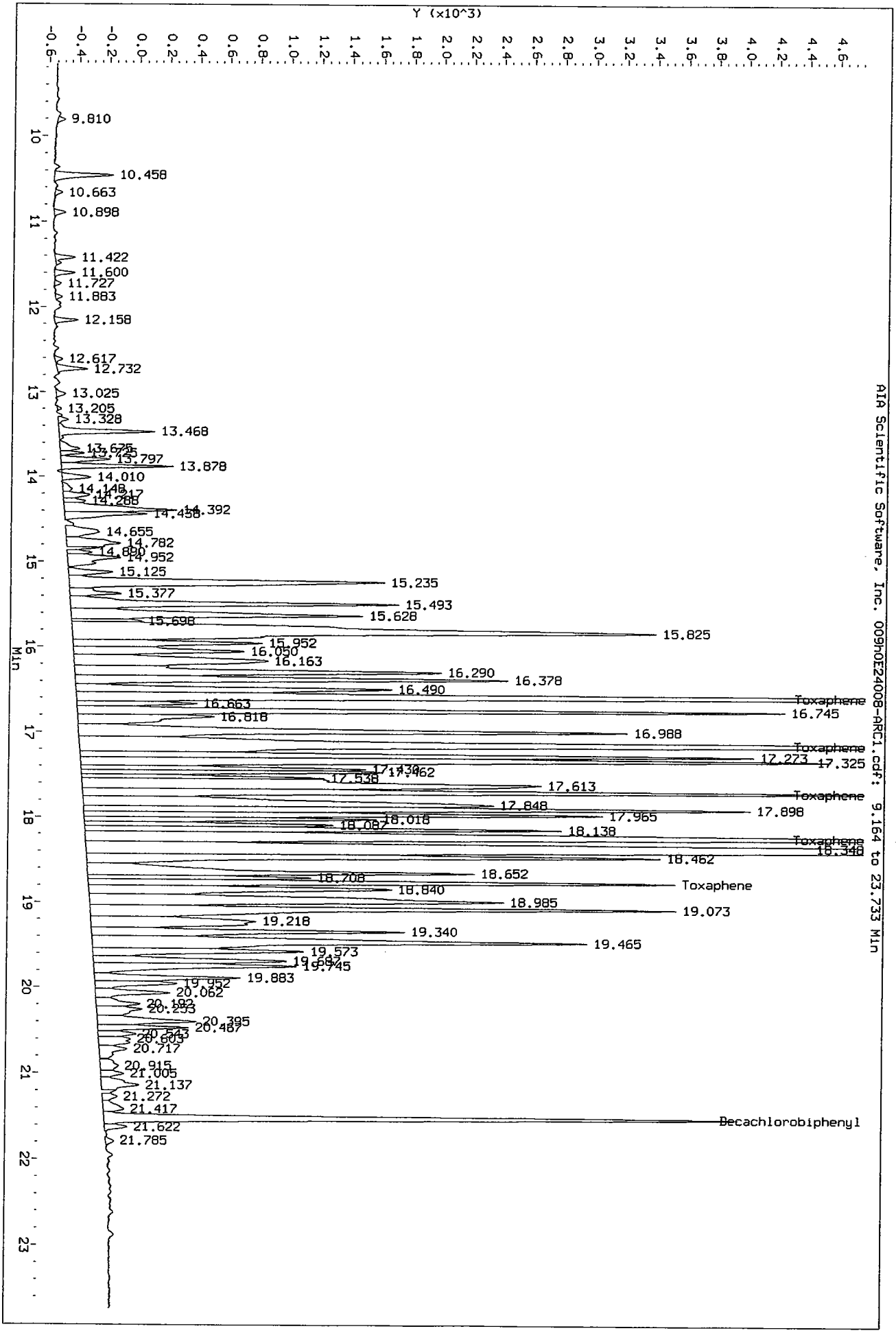
RUN 5/26/10

AHW 5/26/10

CompuChem

Lab Smp Id : 0E24008-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 24-MAY-2010 18:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
20.19		1171					
20.25		1497					
20.39		2550					
20.47		1667					
20.54		797					
20.60		1159					
20.72		978					
20.91		739					
21.00		515					
21.14		1298					
21.27		366					
21.42		712					
21.52	21.45 21.59	12395	301734	Decachlorobiphenyl	0.040000	294875	
21.62		457					
21.79		181					


Data File: /chem/tracegc84.i/h100524_2C.b/009h0E24008-ARC1.d/009h0E24008-ARC1.cdf
Injection Date: 24-MAY-2010 18:11
Instrument: tracegc84.i
Client Sample ID: TOXAPH3HA
Y (x10^3)
Min
AIA Scientific Software, Inc. 009h0E24008-ARC1.cdf: 9.164 to 23.733 Min
9.810
10.458
10.663
10.898
11.422
11.600
11.727
11.883
12.158
12.617
12.732
13.025
13.205
13.328
13.468
13.878
14.010
14.392
14.655
14.782
14.952
15.125
15.235
15.377
15.493
15.628
15.825
15.952
16.050
16.163
16.290
16.378
16.490
Toxaphene
16.663
16.745
16.818
16.988
Toxaphene
17.273
17.325
17.462
17.538
17.613
Toxaphene
17.848
17.898
17.965
18.018
18.138
Toxaphene
18.340
18.462
18.652
18.708
Toxaphene
18.840
18.985
19.073
19.218
19.340
19.465
19.573
19.745
19.883
19.952
20.062
20.182
20.253
20.395
20.487
20.543
20.605
20.717
20.915
21.005
21.137
21.272
21.417
Decachlorobiphenyl
21.622
21.785

Data File: /chem/tracegc84.i/h100524_2C.b/010h0E24008-ARC2.d

Date : 24-MAY-2010 18:40

Client ID: CHLOR03HA

Sample Info: 0E24008-ARC2

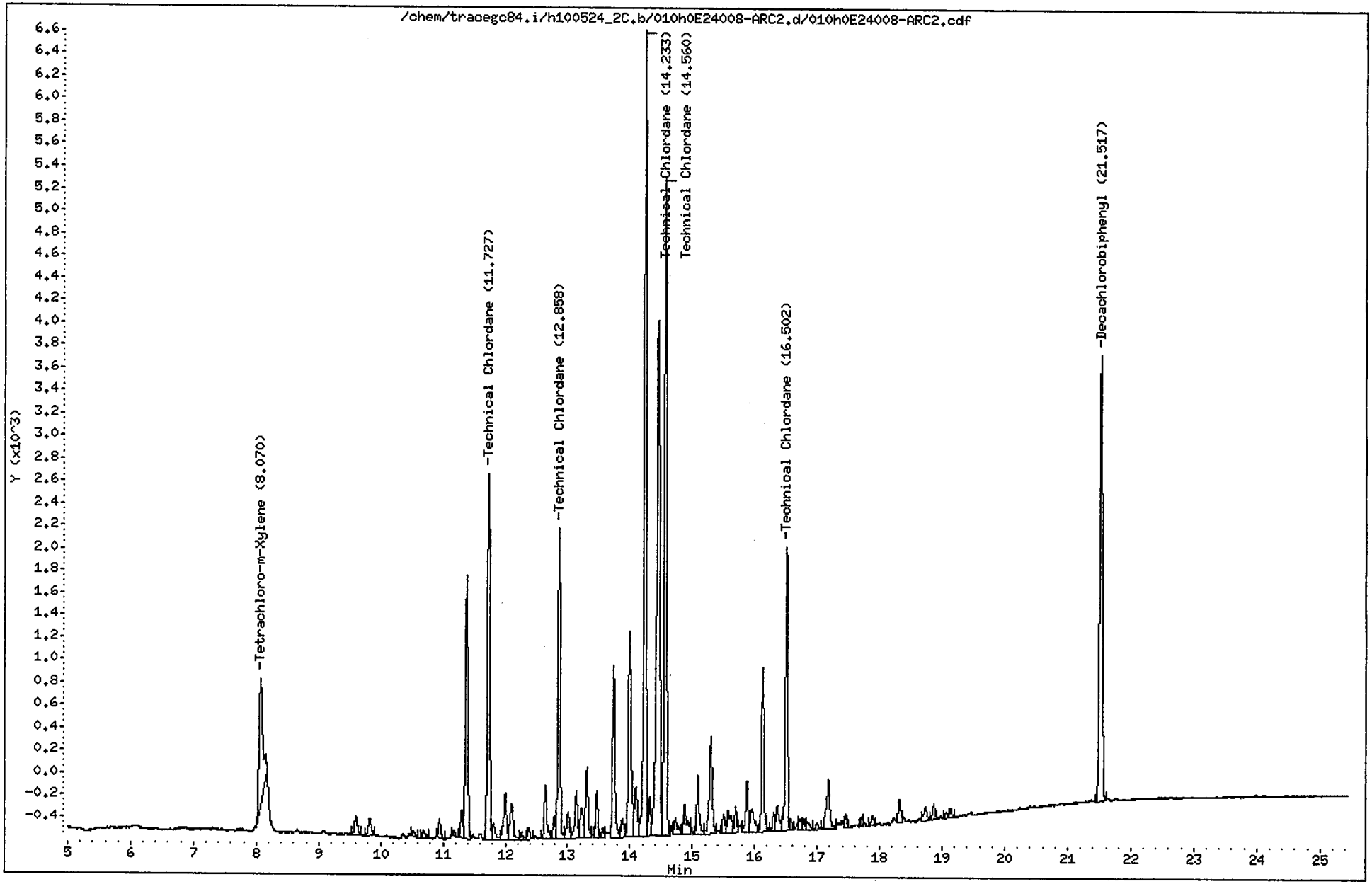
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 24-MAY-2010 18:40 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.41		111					
1.52		6785					
1.93		125					
8.07	8.00 8.14	4601	345165	Tetrachloro-m-Xylene	0.020000	341300	
9.60		557					
9.82		529					
10.53		137					
10.68		244					
10.94		432					
11.18		137					
11.30		598					
11.37		6195					
11.73	11.66 11.80	8561	21400	TechnicalChlordane Peak 1	0.400000	21400	
11.81		501					
12.00		1383					
12.11		1260					
12.26		183					
12.38		283					
12.64		1381					
12.79		496					
12.86	12.79 12.93	7070	17672	TechnicalChlordane Peak 2	0.400000	17673	
13.01		746					
13.14		1247					
13.22		943					
13.31		1881					
13.46		989					
13.57		236					
13.73		3946					
13.88		555					
13.99		5636					
14.09		1496					
14.23	14.16 14.30	17871	44678	TechnicalChlordane Peak 3	0.400000	44677	
14.31		822					
14.44		16165					
14.56	14.49 14.63	14933	37330	TechnicalChlordane Peak 4	0.400000	37330	
14.73		582					
14.88		1047					
15.09		1499					
15.29		2867					
15.49		484					
15.57		856					
15.69		569					

2M

PM 5/26/10

AHW 5/25/10

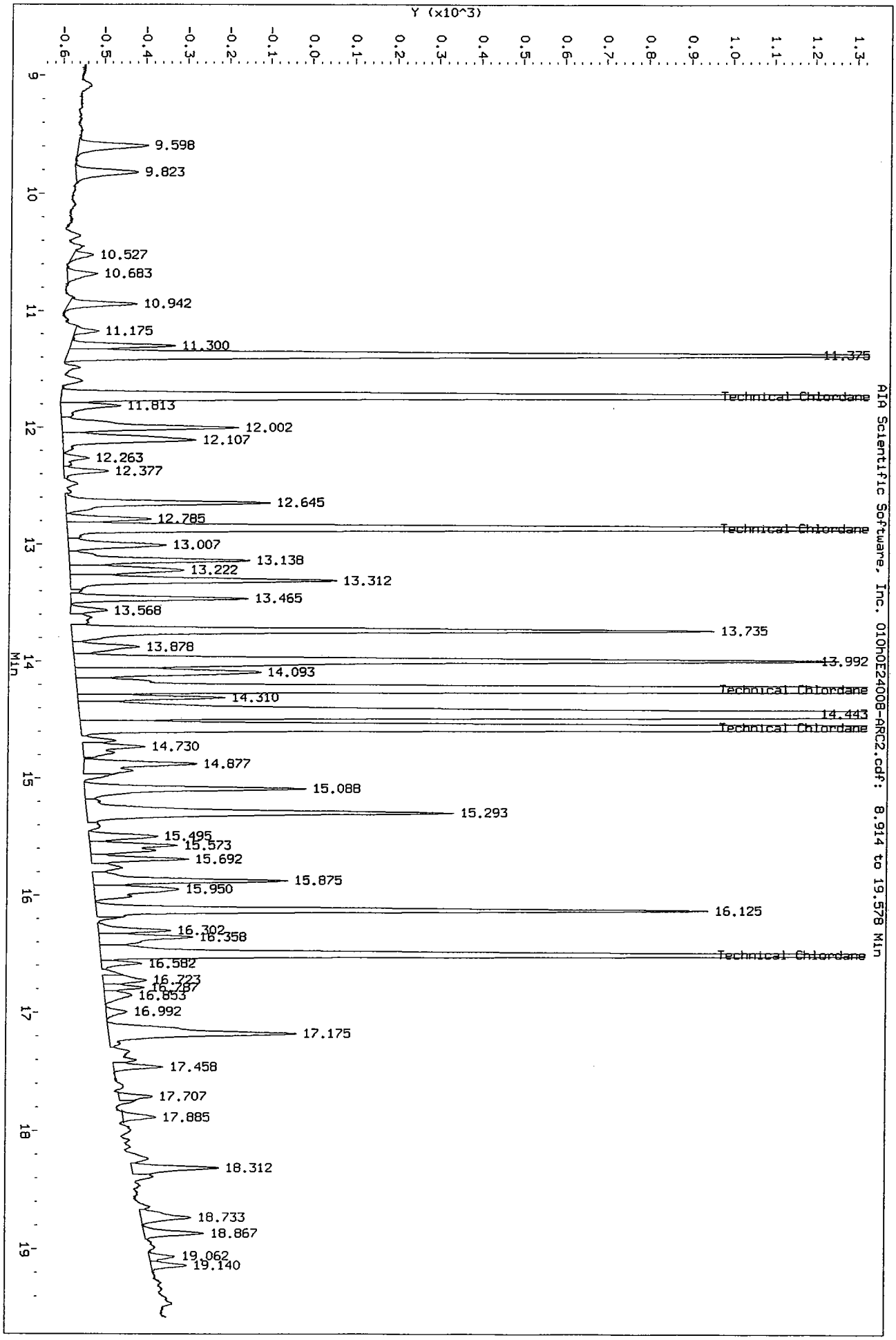
CompuChem

Lab Smp Id : 0E24008-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 24-MAY-2010 18:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.87		1261					
15.95		894					
16.13		3514					
16.30		423					
16.36		773					
16.50	16.43 16.57	6359	15898	TechnicalChlordane Peak 5	0.400000	15897	ZM
16.58		222					
16.72		347					
16.79		223					
16.85		253					
16.99		141					
17.18		1749					
17.46		285					
17.71		197					
17.89		197					
18.31		593					
18.73		431					
18.87		392					
19.06		148					
19.14		210					
21.52	21.45 21.59	11555	301734	Decachlorobiphenyl	0.040000	294875	

RW 5/26/10

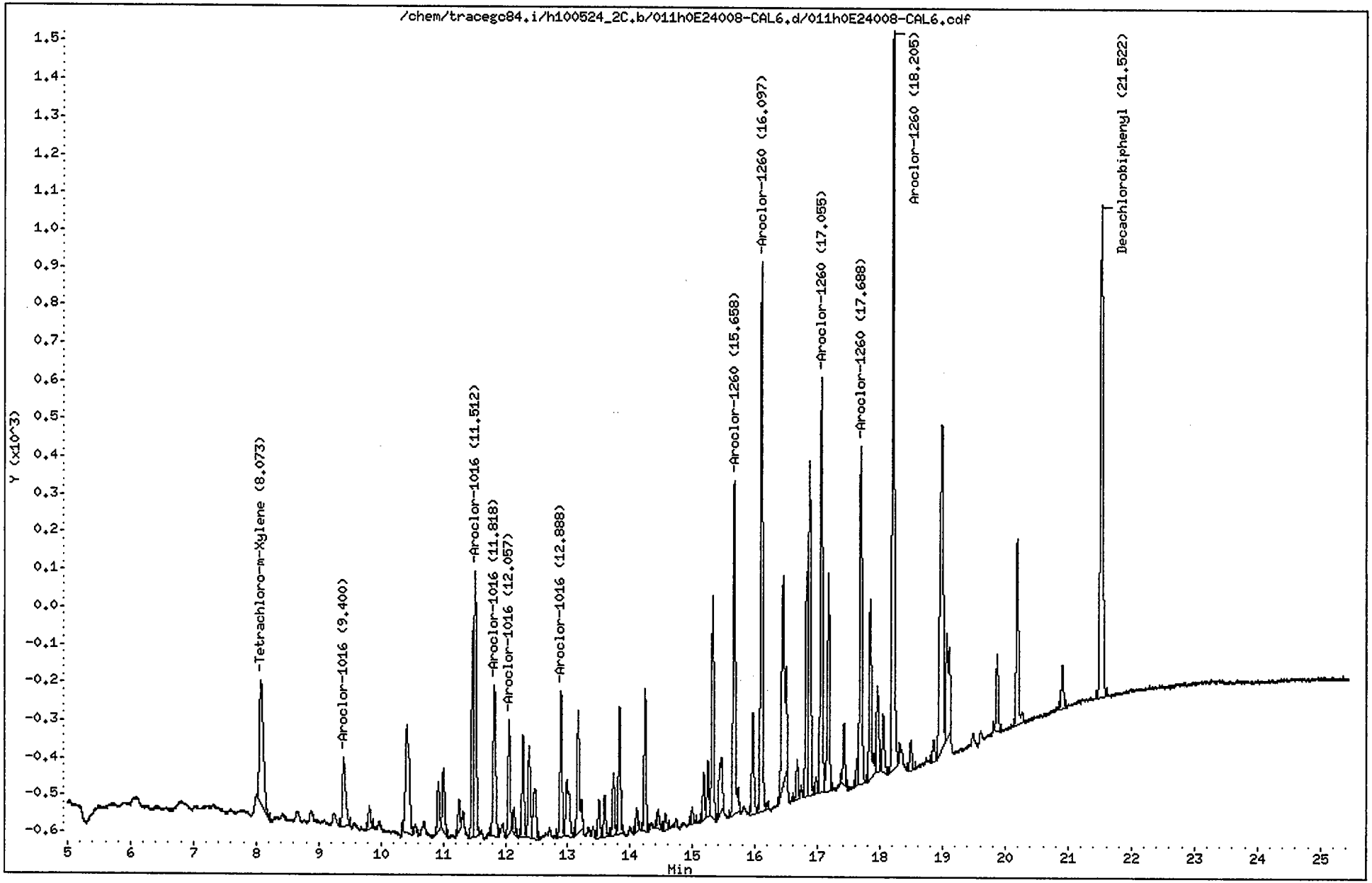
AHW 5/26/10


Data File: /chem/tracegc84.i/h100524_2C.b/010h0E24008-ARC2.d/010h0E24008-ARC2.cdf
Injection Date: 24-MAY-2010 18:40
Instrument: tracegc84.i
Client Sample ID: CHLORD3HA
Y (x10^3)
-0.6 -0.5 -0.4 -0.3 -0.2 -0.1 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3
9 10 11 12 13 14 15 16 17 18 19
Min
9.598
9.823
10.527
10.683
10.942
11.175
11.300
11.375
Technical Chlordane
11.813
12.002
12.107
12.263
12.377
12.645
12.785
Technical Chlordane
13.007
13.138
13.222
13.312
13.465
13.568
13.735
13.878
13.992
14.093
Technical Chlordane
14.310
14.443
Technical Chlordane
14.730
14.877
15.088
15.293
15.495
15.573
15.692
15.875
15.950
16.125
16.302
16.358
Technical Chlordane
16.582
16.723
16.787
16.853
16.992
17.175
17.458
17.707
17.885
18.312
18.733
18.867
19.062
19.140
AIA Scientific Software, Inc. 010h0E24008-ARC2.cdf: 8.914 to 19.578 Min

Data File: /chem/tracegc84.i/h100524_2C.b/011h0E24008-CAL6.d
Date : 24-MAY-2010 19:09
Client ID: AR16601HA
Sample Info: 0E24008-CAL6
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 24-MAY-2010 19:09 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16601HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.46			1704					
1.52			5553					
1.94			140					
2.45			116					
8.07	8.00	8.14	1456	345165	Tetrachloro-m-Xylene	0.005000	364000	
9.40	9.33	9.47	662	6174	Aroclor-1016 Peak 1	0.100000	6620.000	
9.81			161					
10.41			1264					
10.92			328					
11.00			428					
11.26			200					
11.47			1127					
11.51	11.44	11.58	1888	15968	Aroclor-1016 Peak 2	0.100000	18870	
11.82	11.75	11.89	1137	10310	Aroclor-1016 Peak 3	0.100000	11370	
12.06	11.98	12.12	712	6671	Aroclor-1016 Peak 4	0.100000	7120.000	
12.13			148					
12.28			644					
12.38			642					
12.47			482					
12.89	12.82	12.96	911	7882	Aroclor-1016 Peak 5	0.100000	9100.000	
12.98			607					
13.16			929					
13.49			245					
13.59			270					
13.73			379					
13.83			816					
14.11			153					
14.24			851					
14.45			141					
14.57			104					
14.99			100					
15.18			275					
15.24			333					
15.32			1344					
15.43			532					
15.66	15.59	15.73	2177	17594	Aroclor-1260 Peak 1	0.100000	21770	
15.96			654					
16.10	16.02	16.16	3415	28488	Aroclor-1260 Peak 2	0.100000	34140	
16.45			2215					
16.67			230					
16.82			1394					
16.87			2321					

AHW
5/25/10

CompuChem

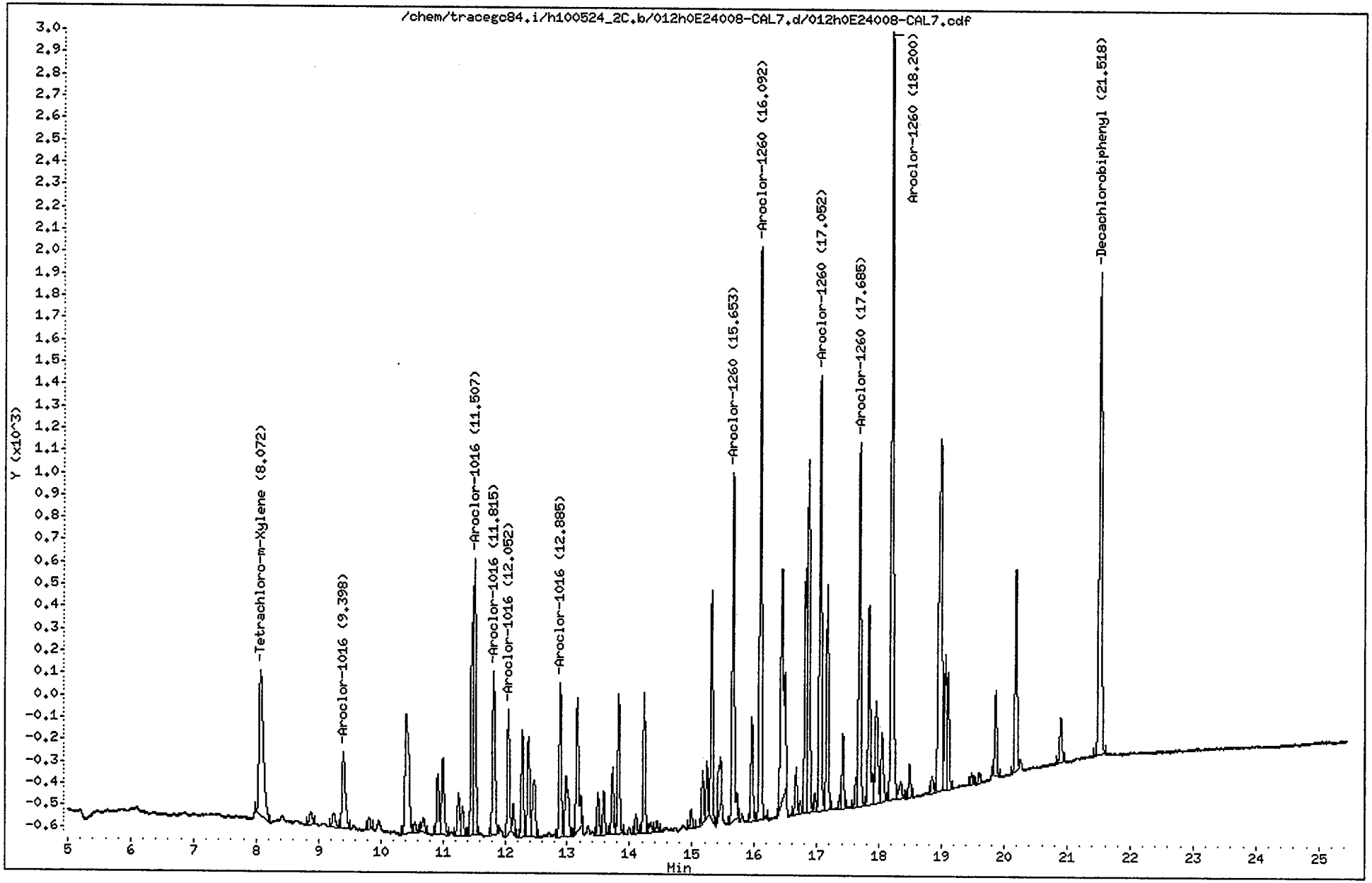
Lab Smp Id : 0E24008-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 24-MAY-2010 19:09 Inst ID :
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16601HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.97		96					
17.06	16.98 17.12	2564	22033	Aroclor-1260 Peak 3	0.100000	25630	
17.17		1429					
17.42		368					
17.63		136					
17.69	17.62 17.76	2231	18810	Aroclor-1260 Peak 4	0.100000	22310	
17.84		1203					
17.96		595					
18.05		386					
18.20	18.13 18.27	4768	41418	Aroclor-1260 Peak 5	0.100000	47680	
18.49		191					
18.86		154					
18.99		3094					
19.07		1024					
19.87		466					
20.19		1231					
20.91		292					
21.52	21.45 21.59	3729	301734	Decachlorobiphenyl	0.010000	364000	

Data File: /chem/tracegc84.i/h100524_2C.b/012h0E24008-CAL7.d
Date : 24-MAY-2010 19:38
Client ID: AR16602HA
Sample Info: 0E24008-CAL7
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 24-MAY-2010 19:38 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16602HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.42			112					
1.52			6478					
1.94			127					
8.07	8.00	8.14	3088	345165	Tetrachloro-m-Xylene	0.010000	372900	
8.88			190					
9.24			238					
9.40	9.33	9.47	1271	6174	Aroclor-1016 Peak 1	0.200000	6355.000	
9.81			143					
10.41			2379					
10.55			122					
10.69			180					
10.92			750					
11.00			1007					
11.25			507					
11.32			314					
11.46			2066					
11.51	11.44	11.58	3386	15968	Aroclor-1016 Peak 2	0.200000	16925	
11.82	11.75	11.89	2152	10310	Aroclor-1016 Peak 3	0.200000	10760	
12.05	11.98	12.12	1333	6671	Aroclor-1016 Peak 4	0.200000	6660.000	
12.13			300					
12.28			1150					
12.38			1183					
12.47			898					
12.88	12.82	12.96	1670	7882	Aroclor-1016 Peak 5	0.200000	8345.000	
12.98			1075					
13.16			1736					
13.49			462					
13.59			466					
13.72			708					
13.82			1534					
14.10			236					
14.23			1460					
14.33			146					
14.44			122					
14.99			197					
15.17			508					
15.23			520					
15.31			2332					
15.43			822					
15.65	15.59	15.73	3899	17594	Aroclor-1260 Peak 1	0.200000	19495	
15.95			1112					
16.09	16.02	16.16	6085	28488	Aroclor-1260 Peak 2	0.200000	30420	

AHW
5/25/10

CompuChem

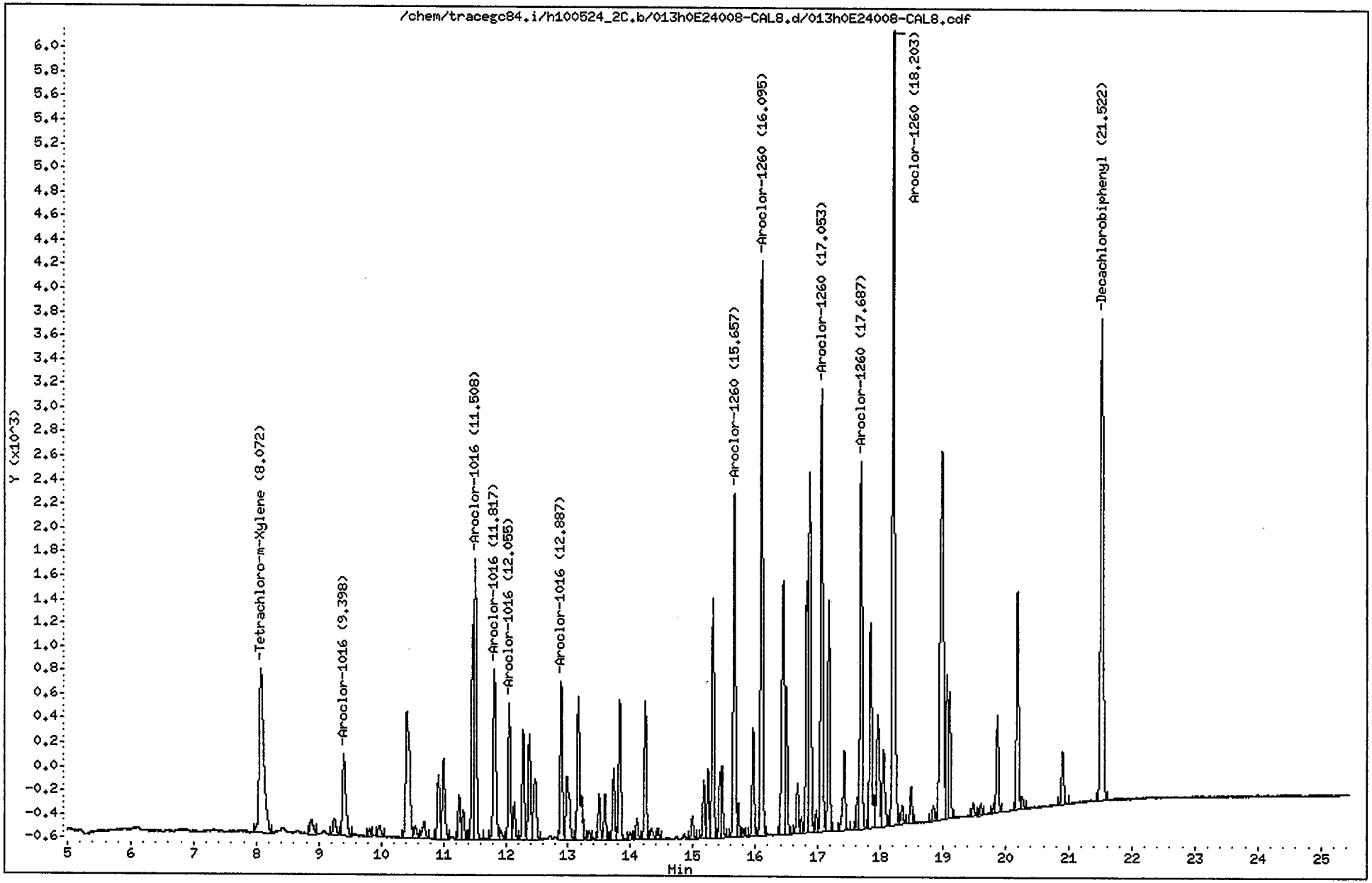
Lab Smp Id : 0E24008-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 24-MAY-2010 19:38 Inst ID :
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16602HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.44		4153					
16.67		472					
16.73		122					
16.82		2533					
16.86		4295					
16.97		181					
17.05	16.98 17.12	4678	22033	Aroclor-1260 Peak 3	0.200000	23385	
17.17		2403					
17.37		100					
17.42		773					
17.63		266					
17.68	17.62 17.76	4020	18810	Aroclor-1260 Peak 4	0.200000	20095	
17.84		2412					
17.95		1368					
18.05		885					
18.20	18.13 18.27	8741	41418	Aroclor-1260 Peak 5	0.200000	43705	
18.35		259					
18.48		342					
18.85		186					
18.98		5996					
19.06		1380					
19.10		1155					
19.48		110					
19.60		116					
19.86		880					
20.18		2099					
20.90		507					
21.52	21.45 21.59	6269	301734	Decachlorobiphenyl	0.020000	339250	

Data File: /chem/tracegc84.i/h100524_2C.b/013h0E24008-CAL8.d
Date : 24-MAY-2010 20:07
Client ID: AR16603HA
Sample Info: 0E24008-CAL8
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 24-MAY-2010 20:07 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53			9141					
1.95			430					
2.41			100					
8.07	8.00	8.14	6903	345165	Tetrachloro-m-Xylene	0.020000	341300	
8.88			497					
9.25			516					
9.40	9.33	9.47	2574	6174	Aroclor-1016 Peak 1	0.400000	6435.000	
9.81			177					
9.98			341					
10.41			4648					
10.55			295					
10.69			521					
10.92			1472					
11.00			1983					
11.25			961					
11.32			663					
11.47			3941					
11.51	11.44	11.58	6532	15968	Aroclor-1016 Peak 2	0.400000	16330	
11.82	11.75	11.89	4271	10310	Aroclor-1016 Peak 3	0.400000	10677	
11.92			227					
12.06	11.98	12.12	2792	6671	Aroclor-1016 Peak 4	0.400000	6980.000	
12.13			756					
12.28			2255					
12.38			2387					
12.47			1791					
12.89	12.82	12.96	3204	7882	Aroclor-1016 Peak 5	0.400000	8007.500	
12.98			2064					
13.16			3851					
13.34			191					
13.49			885					
13.59			901					
13.73			1430					
13.82			2996					
13.99			143					
14.10			416					
14.23			2714					
14.34			291					
14.44			227					
14.99			425					
15.17			1166					
15.24			1346					
15.31			4720					

2M

Rev 5/26/10

AH/W
5/25/10

CompuChem

Lab Smp Id : 0E24008-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 24-MAY-2010 20:07 Inst ID :
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603HA

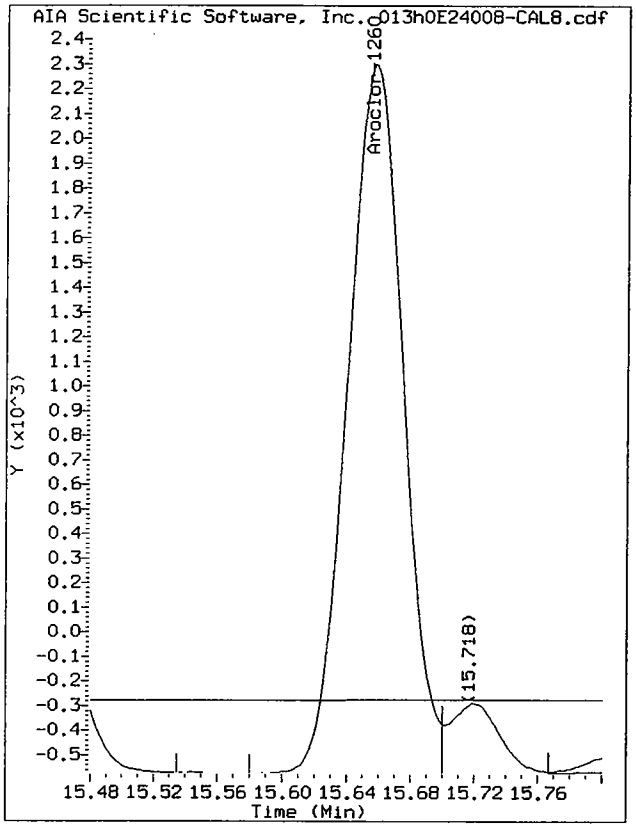
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.43		1095					
15.46		1375					
15.66	15.59 15.73	6925	17594	Aroclor-1260 Peak 1	0.400000	17310	M
15.72		616					
15.80		146					
15.96		2098					
16.10	16.02 16.16	11432	28488	Aroclor-1260 Peak 2	0.400000	28580	
16.44		6611					
16.49		2701					
16.67		1002					
16.73		281					
16.82		5015					
16.87		8155					
16.97		396					
17.05	16.98 17.12	8941	22033	Aroclor-1260 Peak 3	0.400000	22350	
17.17		4581					
17.42		1795					
17.63		516					
17.69	17.62 17.76	7602	18810	Aroclor-1260 Peak 4	0.400000	19003	
17.84		4664					
17.95		2759					
18.05		1825					
18.20	18.13 18.27	16913	41418	Aroclor-1260 Peak 5	0.400000	42283	
18.35		431					
18.49		701					
18.85		311					
18.99		11725					
19.06		2662					
19.10		2398					
19.48		251					
19.60		235					
19.81		145					
19.87		1902					
20.18		4339					
20.26		240					
20.90		1108					
21.52	21.45 21.59	11896	301734	Decachlorobiphenyl	0.040000	294875	

2M

Rev 5/26/10

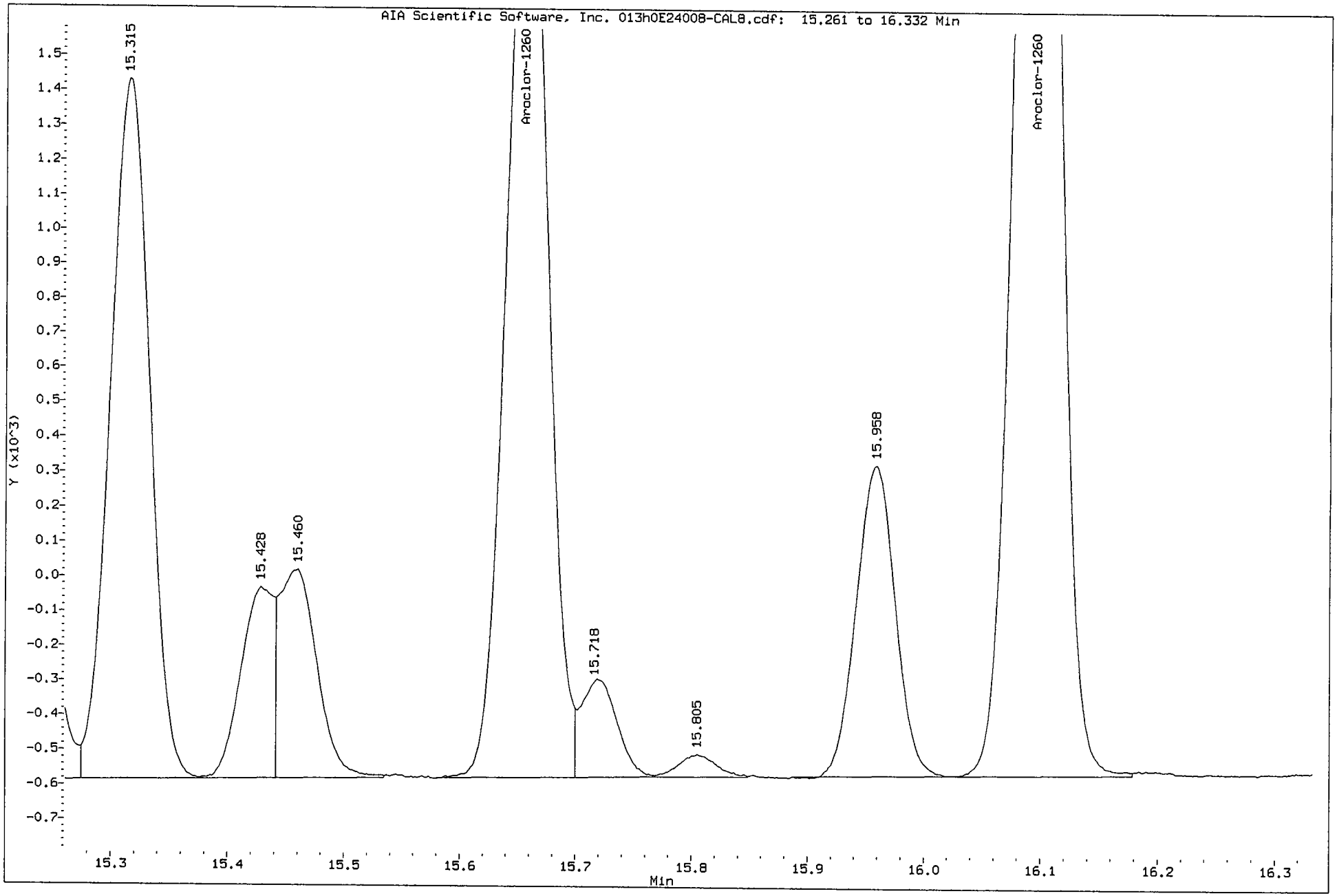
AHW
5/26/10

Manually Integrated Peaks



Start: 15.58 Stop: 15.70

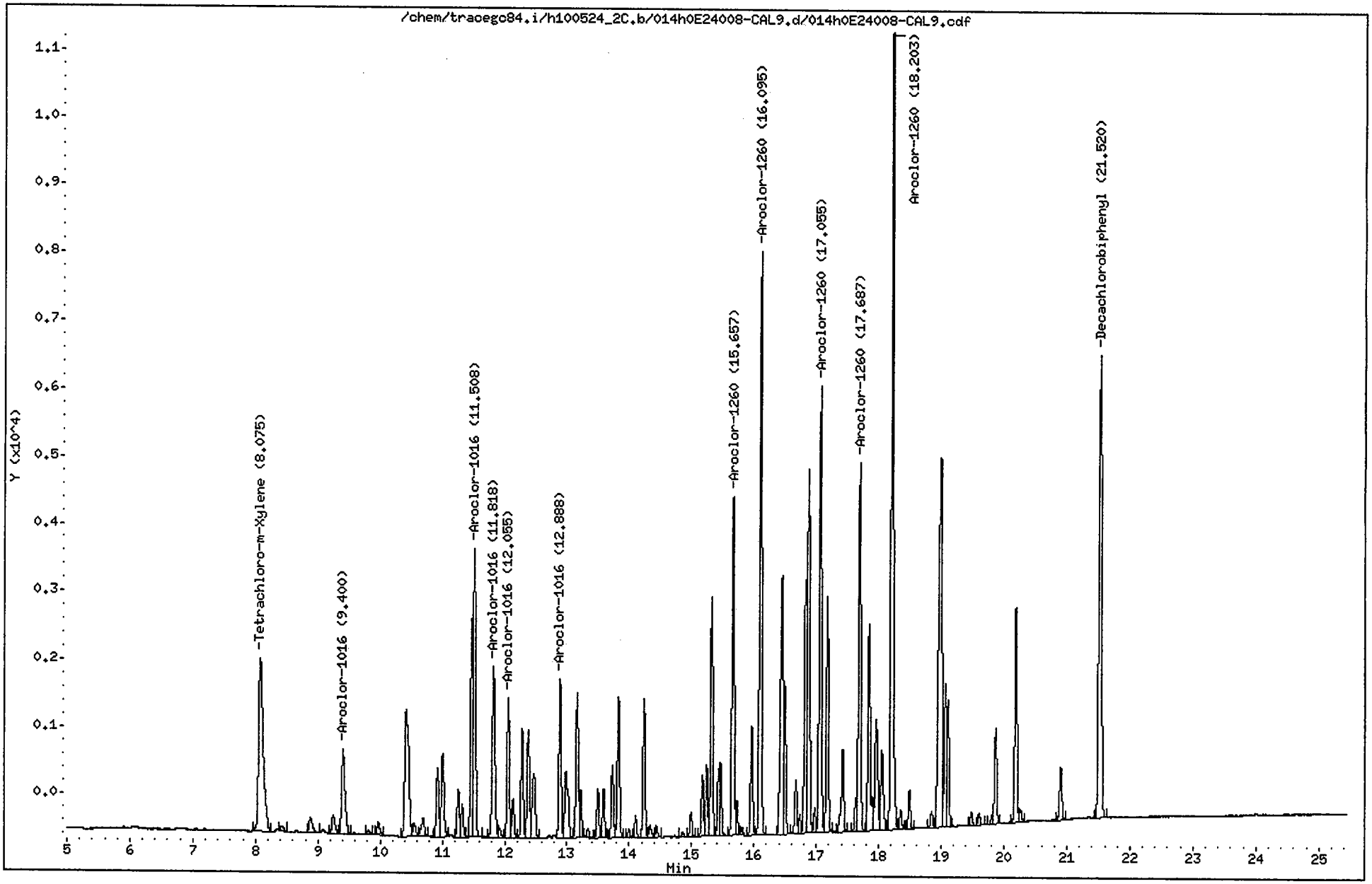
Data File: /chem/tracegc84.i/h100524_2C.b/013h0E24008-CAL8.d/013h0E24008-CAL8.cdf
Injection Date: 24-MAY-2010 20:07
Instrument: tracegc84.i
Client Sample ID: AR16603HA



Data File: /chem/tracegc84.i/h100524_2C.b/014h0E24008-CAL9.d
Date : 24-MAY-2010 20:36
Client ID: AR16604HA
Sample Info: 0E24008-CAL9
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 24-MAY-2010 20:36 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16604HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52			1573					
1.94			124					
2.44			96					
8.08	8.00	8.14	13120	345165	Tetrachloro-m-Xylene	0.040000	326525	
8.42			226					
8.88			853					
9.24			934					
9.40	9.33	9.47	4728	6174	Aroclor-1016 Peak 1	0.800000	5910.000	
9.81			144					
9.97			557					
10.41			8595					
10.55			527					
10.69			931					
10.92			2784					
11.00			3667					
11.25			1822					
11.32			1269					
11.47			7003					
11.51	11.44	11.58	11739	15968	Aroclor-1016 Peak 2	0.800000	14674	
11.82	11.75	11.89	7855	10310	Aroclor-1016 Peak 3	0.800000	9818.750	
11.92			378					
12.06	11.98	12.12	5238	6671	Aroclor-1016 Peak 4	0.800000	6546.250	
12.13			1450					
12.28			4142					
12.38			4402					
12.47			3444					
12.89	12.82	12.96	5854	7882	Aroclor-1016 Peak 5	0.800000	7317.500	
12.98			3789					
13.16			5708					
13.21			1558					
13.34			389					
13.50			1718					
13.59			1690					
13.73			2655					
13.82			5384					
13.99			285					
14.10			758					
14.23			4925					
14.33			513					
14.44			383					
14.86			180					
14.99			826					

AHW
5/25/10

CompuChem

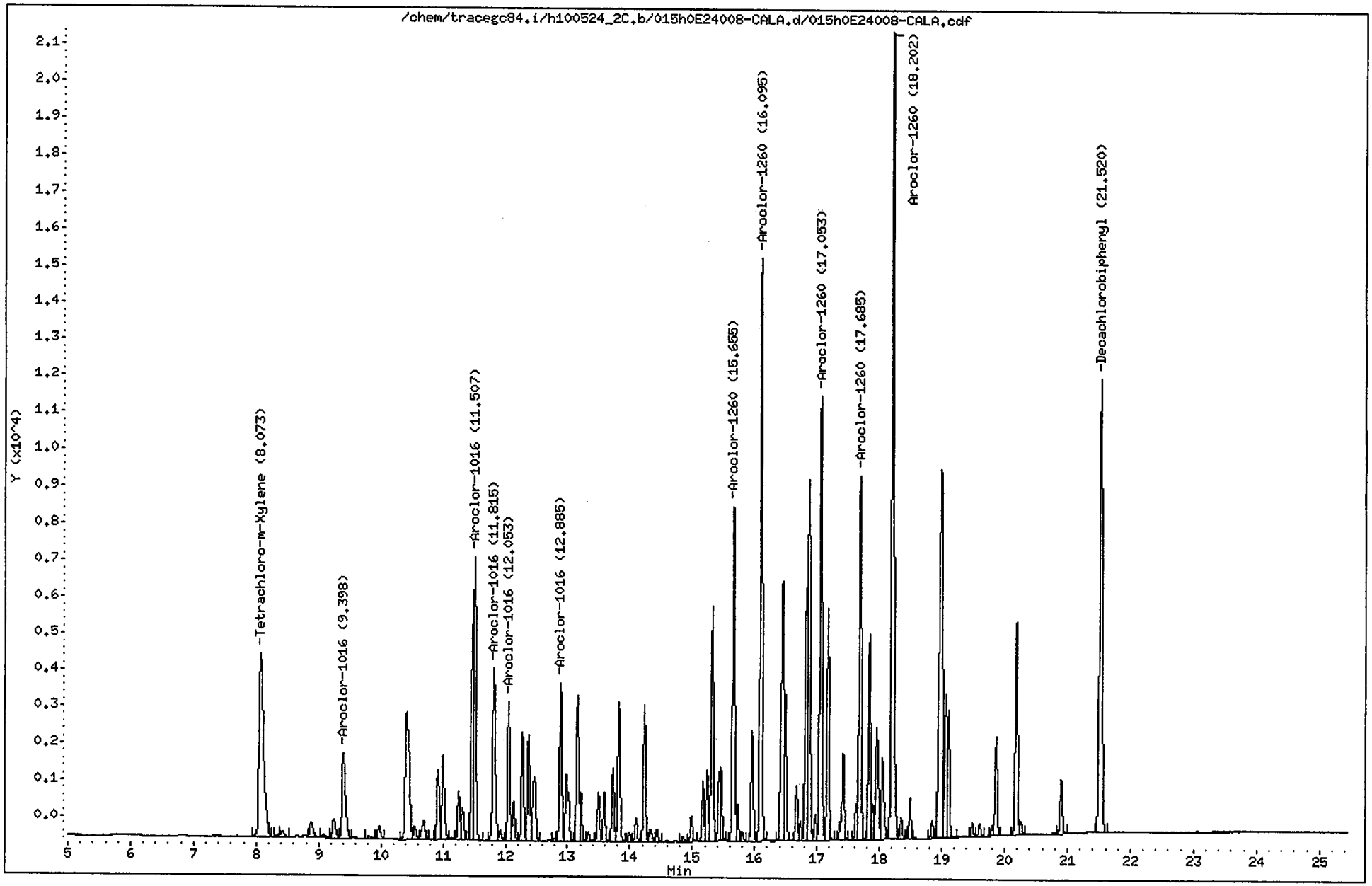
Lab Smp Id : 0E24008-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 24-MAY-2010 20:36 Inst ID :
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16604HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.17		2134					
15.24		2444					
15.32		8582					
15.43		1961					
15.46		2523					
15.66	15.59 15.73	12423	17594	Aroclor-1260 Peak 1	0.800000	15527	
15.72		1052					
15.80		256					
15.96		3873					
16.10	16.02 16.16	20604	28488	Aroclor-1260 Peak 2	0.800000	25755	
16.44		12220					
16.49		4770					
16.67		1929					
16.73		574					
16.82		9042					
16.87		14831					
16.97		769					
17.06	16.98 17.12	16218	22033	Aroclor-1260 Peak 3	0.800000	20273	
17.17		8336					
17.42		3385					
17.63		1005					
17.69	17.62 17.76	13668	18810	Aroclor-1260 Peak 4	0.800000	17085	
17.84		8523					
17.95		5149					
18.05		3400					
18.20	18.13 18.27	30490	41418	Aroclor-1260 Peak 5	0.800000	38111	
18.35		727					
18.49		1356					
18.84		549					
18.99		20936					
19.06		5033					
19.10		4256					
19.48		470					
19.60		431					
19.81		263					
19.86		3515					
20.18		7804					
20.26		438					
20.90		2011					
21.52	21.45 21.59	20507	301734	Decachlorobiphenyl	0.080000	270025	

Data File: /chem/tracegc84.i/h100524_2C.b/015h0E24008-CALA.d
Date : 24-MAY-2010 21:05
Client ID: AR16605HA
Sample Info: 0E24008-CALA
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 24-MAY-2010 21:05 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16605HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.41			120					
1.47			1018					
1.52			633					
1.94			129					
8.07	8.00	8.14	25095	345165	Tetrachloro-m-Xylene	0.080000	321100	
8.35			148					
8.42			655					
8.88			1593					
9.08			298					
9.24			1810					
9.40	9.33	9.47	8877	6174	Aroclor-1016 Peak 1	1.600000	5548.125	
9.81			217					
9.97			1093					
10.41			15713					
10.55			1003					
10.69			1811					
10.92			5207					
11.00			6815					
11.13			146					
11.25			3381					
11.31			2381					
11.47			13117					
11.51	11.44	11.58	20864	15968	Aroclor-1016 Peak 2	1.600000	13039	
11.82	11.75	11.89	14283	10310	Aroclor-1016 Peak 3	1.600000	8926.250	
11.92			732					
12.05	11.98	12.12	9680	6671	Aroclor-1016 Peak 4	1.600000	6049.375	
12.13			2707					
12.28			7455					
12.37			8020					
12.47			6353					
12.79			171					
12.88	12.82	12.96	10627	7882	Aroclor-1016 Peak 5	1.600000	6641.875	
12.98			6887					
13.16			10371					
13.21			2946					
13.34			719					
13.49			3263					
13.59			3183					
13.73			4886					
13.82			9744					
13.99			544					
14.10			1411					

AHW
5/25/10

CompuChem

Lab Smp Id : 0E24008-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 24-MAY-2010 21:05 Inst ID :
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16605HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.23		8874					
14.33		1026					
14.44		756					
14.86		307					
14.99		1608					
15.17		3903					
15.24		4479					
15.31		15436					
15.43		3620					
15.46		4505					
15.66	15.59 15.73	22187	17594	Aroclor-1260 Peak 1	1.600000	13866	
15.72		2162					
15.80		545					
15.96		7160					
16.10	16.02 16.16	37671	28488	Aroclor-1260 Peak 2	1.600000	23544	
16.44		22222					
16.49		8751					
16.67		3629					
16.73		1173					
16.82		16317					
16.86		27264					
16.97		1553					
17.05	16.98 17.12	29643	22033	Aroclor-1260 Peak 3	1.600000	18527	
17.17		15341					
17.42		6441					
17.63		1877					
17.68	17.62 17.76	24893	18810	Aroclor-1260 Peak 4	1.600000	15558	
17.84		13681					
17.89		1876					
17.95		9630					
18.05		6417					
18.20	18.13 18.27	56500	41418	Aroclor-1260 Peak 5	1.600000	35313	
18.35		1376					
18.49		2552					
18.84		1099					
18.98		38554					
19.06		9366					
19.10		7805					
19.48		886					
19.60		813					
19.81		502					
19.86		6660					

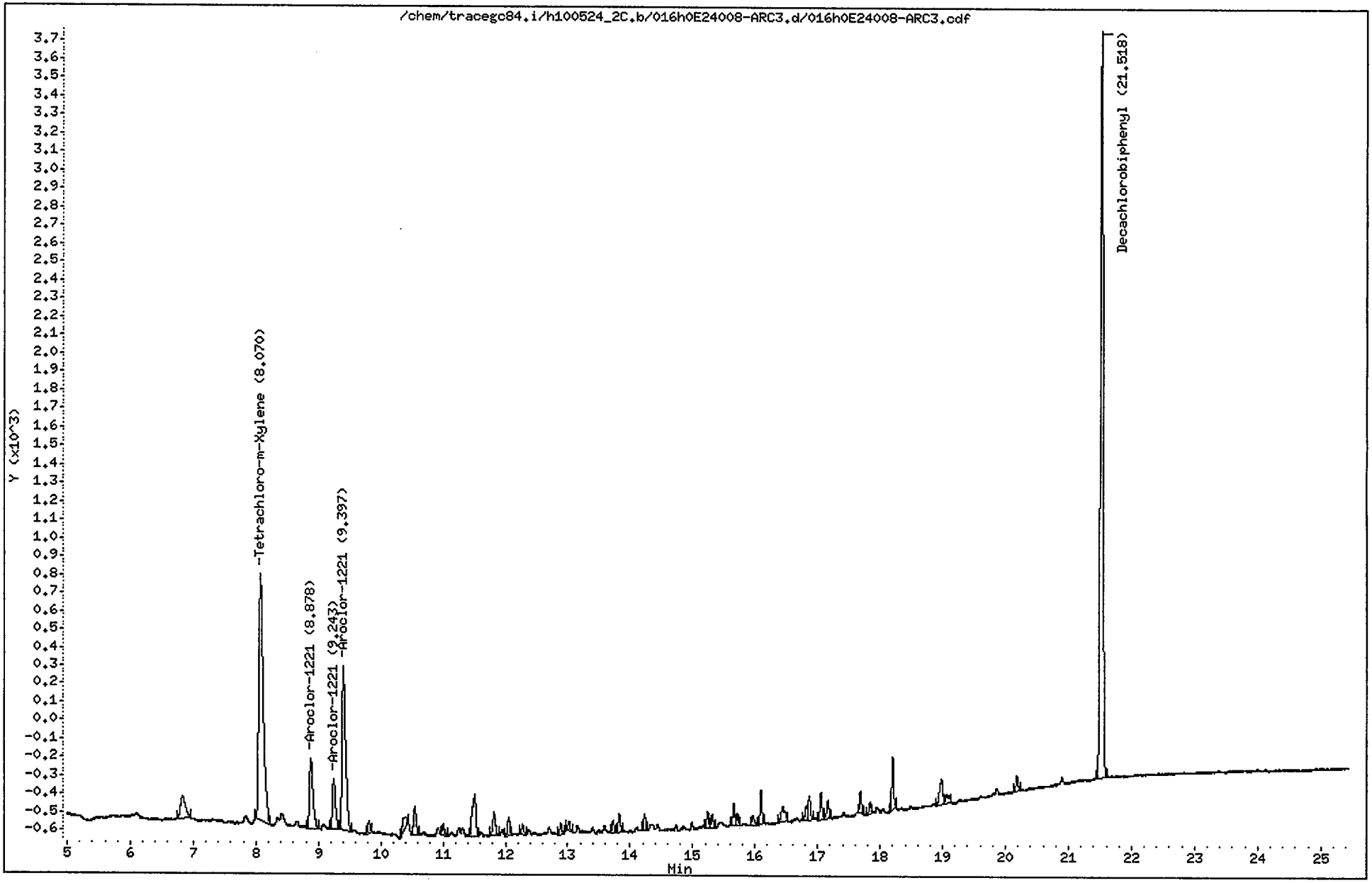
CompuChem

Lab Smp Id : 0E24008-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 24-MAY-2010 21:05 Inst ID :
Operator : System
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR16605HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
20.18		14378					
20.26		857					
20.90		3808					
21.52	21.45 21.59	36611	301734	Decachlorobiphenyl	0.160000	240519	

Data File: /chem/tracegc84.i/h100524_2C.b/016h0E24008-ARC3.d
Date : 24-MAY-2010 21:34
Client ID: AR12213HA
Sample Info: 0E24008-ARC3
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC3 Client Smp Id : AR12213HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 24-MAY-2010 21:34 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR12213HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52			11208					
1.94			1559					
6.83			696					
8.07	8.00	8.14	6572	345165	Tetrachloro-m-Xylene	0.020000	341300	
8.88	8.81	8.95	1481	3700	Aroclor-1221 Peak 2	0.400000	3700.000	
9.24	9.17	9.31	949	2372	Aroclor-1221 Peak 3	0.400000	2372.500	
9.40	9.33	9.47	3576	8940	Aroclor-1221 Peak 4	0.400000	8940.000	
9.81			152					
10.38			279					
10.55			461					
11.00			158					
11.51			934					
11.82			382					
12.06			234					
12.28			143					
12.89			128					
13.01			120					
13.73			143					
13.82			245					
14.23			199					
15.24			200					
15.31			167					
15.66			267					
15.72			145					
15.96			154					
16.09			404					
16.44			369					
16.82			192					
16.86			319					
17.05			371					
17.16			258					
17.68			257					
17.84			137					
18.20			615					
18.98			504					
19.07			192					
20.18			194					
21.52	21.45	21.59	11961	301734	Decachlorobiphenyl	0.040000	294875	

AHW
5/25/10

Data File: /chem/tracegc84.i/h100524_2C.b/017h0E24008-ARC4.d

Date : 24-MAY-2010 22:03

Client ID: AR12323HA

Sample Info: 0E24008-ARC4

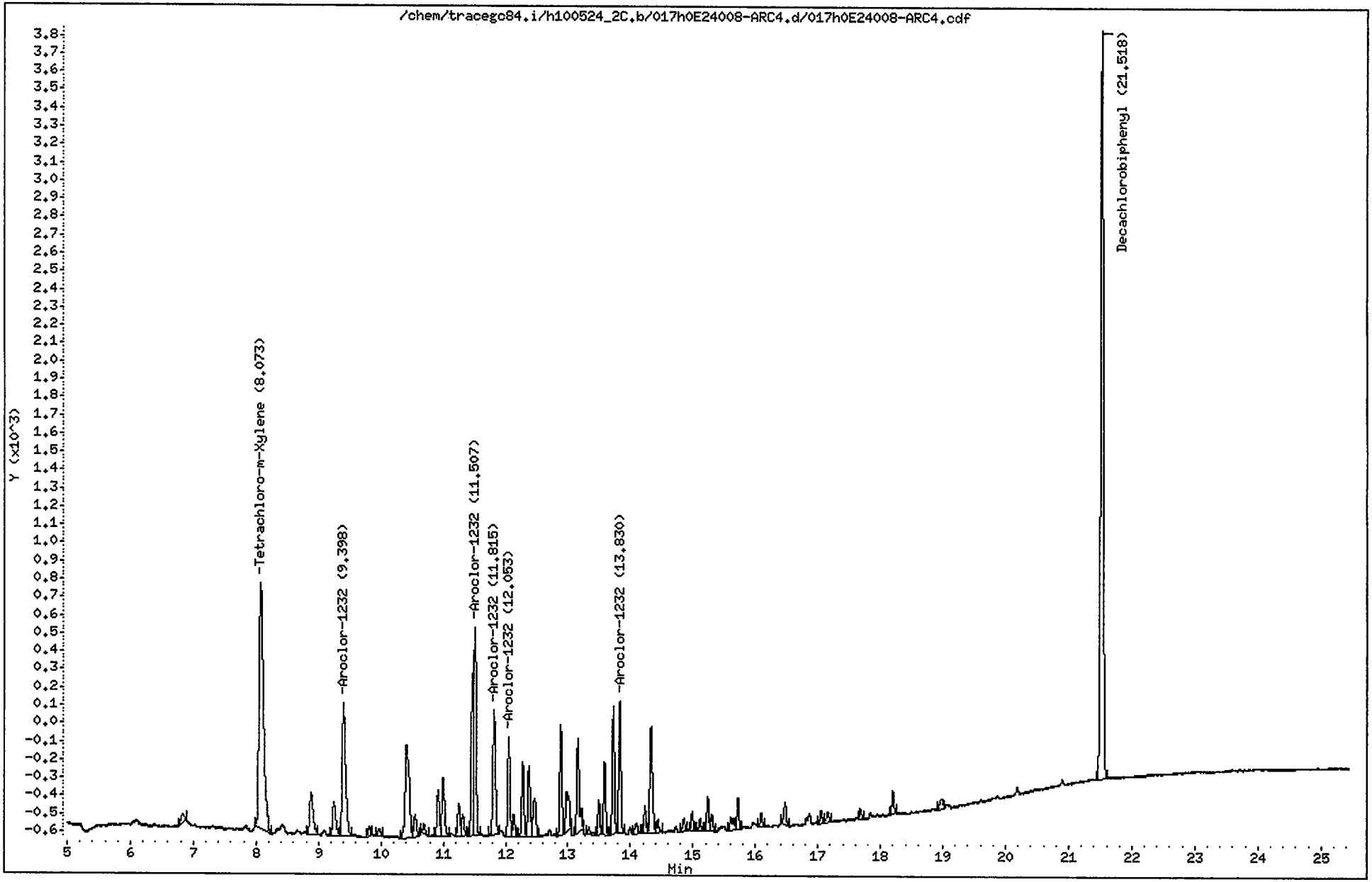
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 24-MAY-2010 22:03 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54		8995					
1.81		95					
1.95		340					
6.84		178					
8.07	8.00 8.14	6590	345165	Tetrachloro-m-Xylene	0.020000	341300	
8.88		902					
9.24		641					
9.40	9.33 9.47	2844	7108	Aroclor-1232 Peak 1	0.400000	7107.500	
9.81		137					
9.97		132					
10.41		2347					
10.55		355					
10.69		145					
10.92		692					
11.00		933					
11.25		455					
11.31		311					
11.47		1863					
11.51	11.44 11.58	3186	7962	Aroclor-1232 Peak 2	0.400000	7962.500	
11.82	11.74 11.88	1977	4940	Aroclor-1232 Peak 3	0.400000	4940.000	
12.05	11.98 12.12	1337	3340	Aroclor-1232 Peak 4	0.400000	3340.000	
12.13		297					
12.28		996					
12.37		1004					
12.47		721					
12.88		1418					
12.98		806					
13.16		1490					
13.34		122					
13.50		423					
13.59		908					
13.73		1644					
13.83	13.76 13.90	1739	4345	Aroclor-1232 Peak 5	0.400000	4345.000	
14.10		170					
14.23		334					
14.33		1749					
14.44		179					
14.86		168					
14.99		224					
15.12		141					
15.24		438					
15.31		230					

AHW
5/25/10

CompuChem

Lab Smp Id : 0E24008-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 24-MAY-2010 22:03 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.61		296					
15.72		396					
16.09		178					
16.48		320					
17.05		167					
17.16		164					
17.68		118					
18.20		272					
18.98		218					
21.52	21.45 21.59	12160	301734	Decachlorobiphenyl	0.040000	294875	

Data File: /chem/tracegc84.i/h100524_2C.b/018h0E24008-ARC5.d

Date : 24-MAY-2010 22:32

Client ID: AR12423HA

Instrument: tracegc84.i

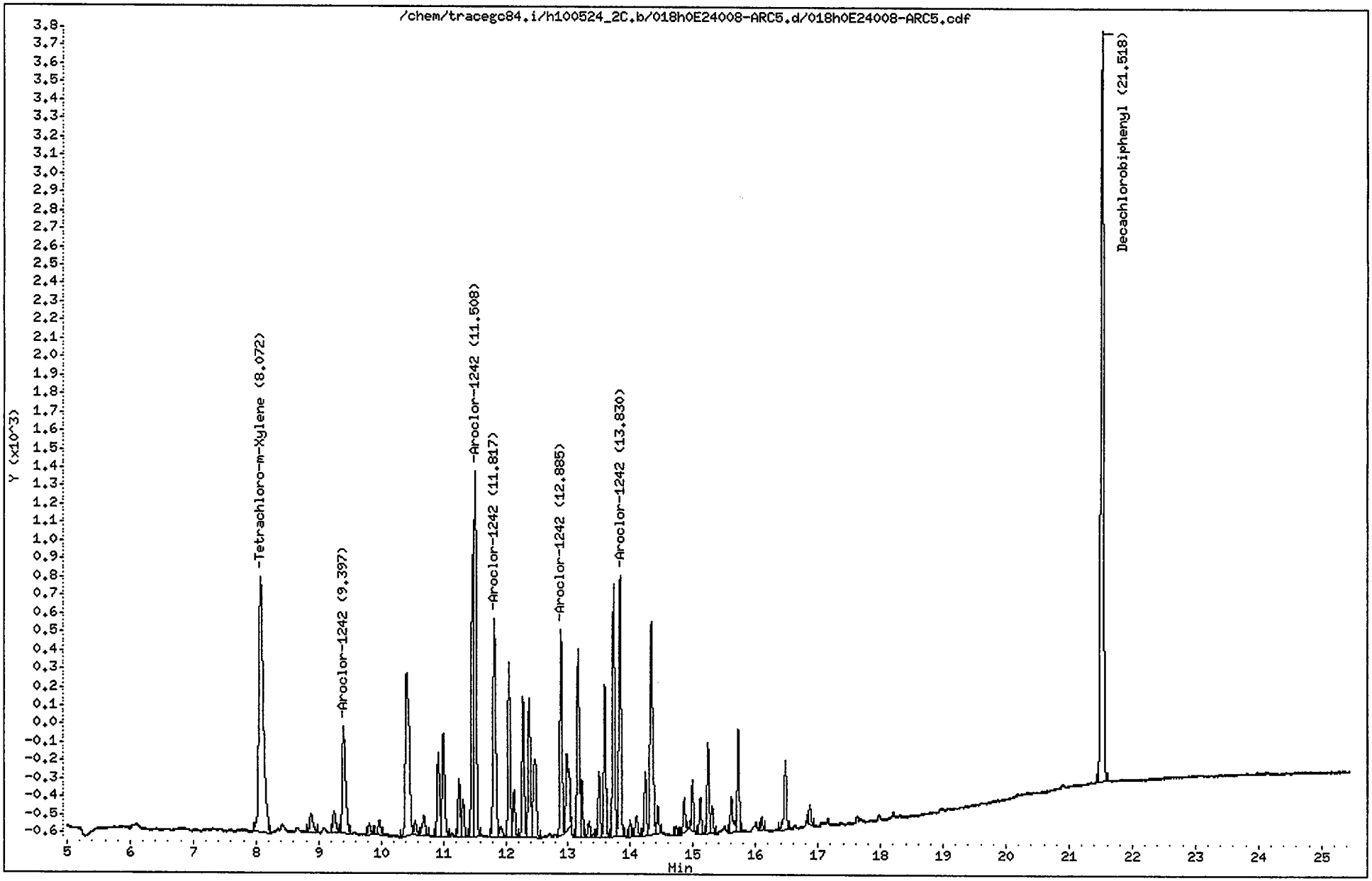
Sample Info: 0E24008-ARC5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: olpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 24-MAY-2010 22:32 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR12423HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.47		1169					
1.53		6046					
1.94		1282					
2.42		110					
8.07	8.00 8.14	6899	345165	Tetrachloro-m-Xylene	0.020000	341300	
8.87		394					
9.24		417					
9.40	9.33 9.47	2152	5380	Aroclor-1242 Peak 1	0.400000	5380.000	
9.81		174					
9.97		238					
10.41		3911					
10.55		198					
10.69		407					
10.92		1226					
11.00		1669					
11.25		802					
11.32		547					
11.47		3340					
11.51	11.44 11.58	5383	13455	Aroclor-1242 Peak 2	0.400000	13455	
11.82	11.75 11.89	3572	8930	Aroclor-1242 Peak 3	0.400000	8930.000	
11.92		202					
12.05		2345					
12.13		636					
12.28		1874					
12.38		2026					
12.47		1543					
12.88	12.81 12.95	2644	6610	Aroclor-1242 Peak 4	0.400000	6610.000	
12.98		1529					
13.16		2677					
13.21		687					
13.34		264					
13.49		856					
13.59		1949					
13.73		3306					
13.83	13.76 13.90	3518	8792	Aroclor-1242 Peak 5	0.400000	8792.500	
13.99		212					
14.10		336					
14.23		812					
14.33		3592					
14.44		323					
14.73		125					
14.86		449					

AHW
5/25/10

CompuChem

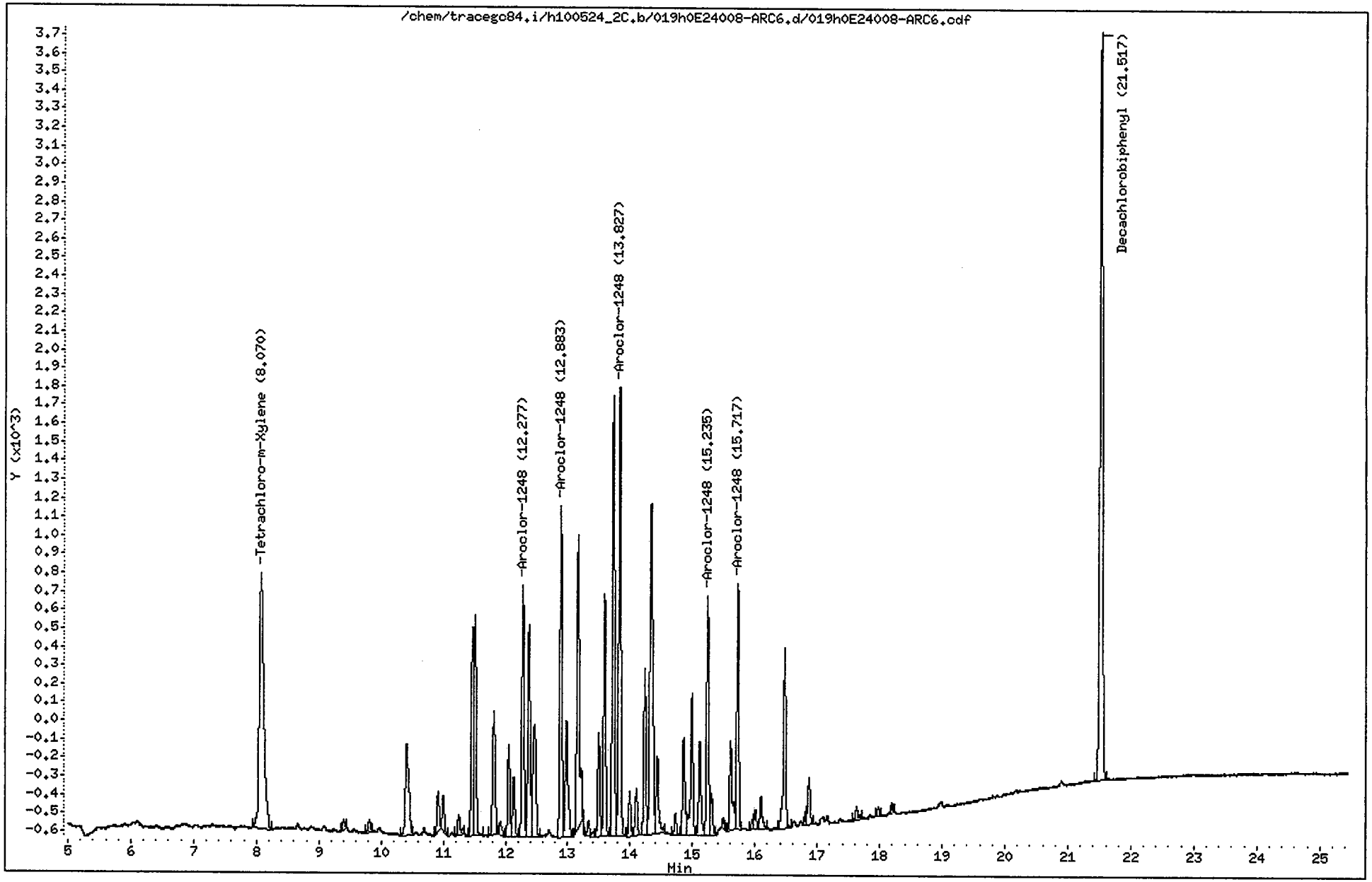
Lab Smp Id : 0E24008-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 24-MAY-2010 22:32 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR12423HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.99		576					
15.12		447					
15.24		1126					
15.30		361					
15.61		574					
15.72		1275					
16.09		151					
16.47		1005					
16.86		224					
21.52	21.45 21.59	12072	301734	Decachlorobiphenyl	0.040000	294875	

Data File: /chem/tracegc84.i/h100524_2C.b/019h0E24008-ARC6.d
Date : 24-MAY-2010 23:01
Client ID: AR12483HA
Sample Info: 0E24008-ARC6
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 24-MAY-2010 23:01 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52		2126					
1.80		129					
1.94		361					
8.07	8.00 8.14	6840	345165	Tetrachloro-m-Xylene	0.020000	341300	
9.39		154					
9.81		175					
10.41		1957					
10.92		514					
11.00		479					
11.25		335					
11.46		2658					
11.51		3106					
11.81		1908					
11.92		210					
12.05		1205					
12.13		779					
12.28	12.21 12.35	3352	8380	Aroclor-1248 Peak 1	0.400000	8380.000	
12.37		3033					
12.46		2188					
12.88	12.81 12.95	4323	10808	Aroclor-1248 Peak 2	0.400000	10807	
12.98		1834					
13.16		4570					
13.33		239					
13.49		1299					
13.58		3098					
13.72		5786					
13.83	13.76 13.90	6093	15230	Aroclor-1248 Peak 3	0.400000	15230	
13.99		553					
14.10		631					
14.23		2146					
14.33		6138					
14.44		1128					
14.72		270					
14.85		1409					
14.98		2012					
15.11		1281					
15.24	15.17 15.31	3077	7692	Aroclor-1248 Peak 4	0.400000	7692.500	
15.30		547					
15.50		112					
15.61		1431					
15.72	15.65 15.79	3075	7688	Aroclor-1248 Peak 5	0.400000	7687.500	
15.95		120					

AHW
5/25/10

CompuChem

Lab Smp Id : 0E24008-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 24-MAY-2010 23:01 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.01		248					
16.09		451					
16.47		2585					
16.82		157					
16.86		619					
17.63		200					
17.97		117					
18.20		107					
21.52	21.45 21.59	11983	301734	Decachlorobiphenyl	0.040000	294875	

Data File: /chem/tracegc84.i/h100524_2C.b/020h0E24008-ARC7.d

Date : 24-MAY-2010 23:30

Client ID: AR12543HA

Instrument: tracegc84.i

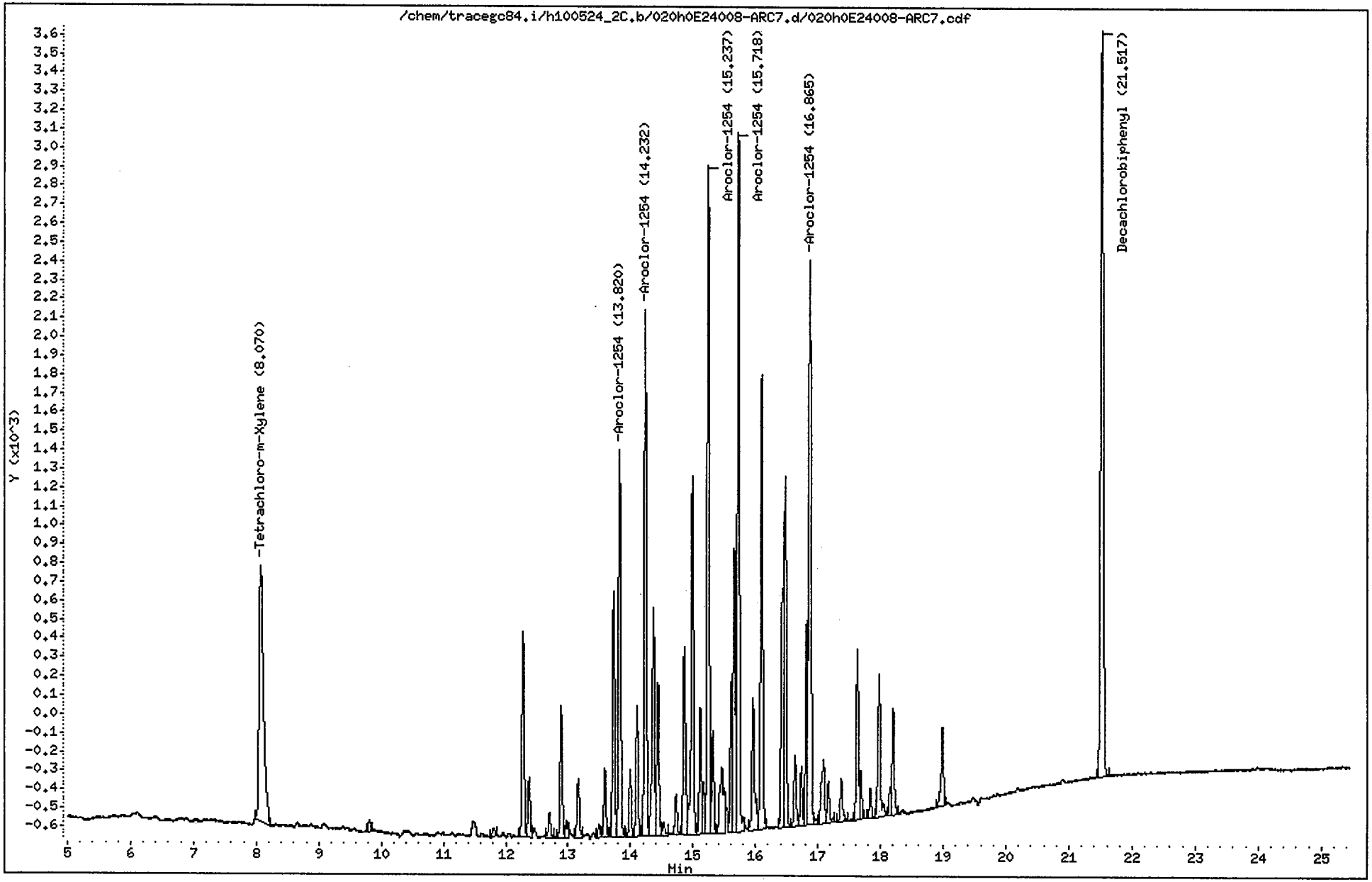
Sample Info: 0E24008-ARC7

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 24-MAY-2010 23:30 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.41		101					
1.47		1663					
1.52		5645					
1.80		253					
1.94		165					
2.46		96					
8.07	8.00 8.14	6630	345165	Tetrachloro-m-Xylene	0.020000	341300	
9.81		152					
11.81		132					
12.28		2721					
12.37		770					
12.70		349					
12.88		1682					
12.98		259					
13.16		838					
13.49		182					
13.58		883					
13.73		3146					
13.82	13.75 13.89	5173	12930	Aroclor-1254 Peak 1	0.400000	12930	2M
13.99		839					
14.10		1624					
14.23	14.16 14.30	6755	16888	Aroclor-1254 Peak 2	0.400000	16887	
14.36		3373					
14.44		1989					
14.53		189					
14.73		503					
14.86		2666					
14.99		4856					
15.11		1569					
15.17		598					
15.24	15.17 15.31	8528	21320	Aroclor-1254 Peak 3	0.400000	21320	
15.31		1223					
15.46		1783					
15.61		1736					
15.65		3704					
15.72	15.65 15.79	9142	22855	Aroclor-1254 Peak 4	0.400000	22855	
15.95		2071					
16.09		5955					
16.43		3086					
16.47		5316					
16.63		930					
16.73		712					

AHW
5/25/10

CompuChem

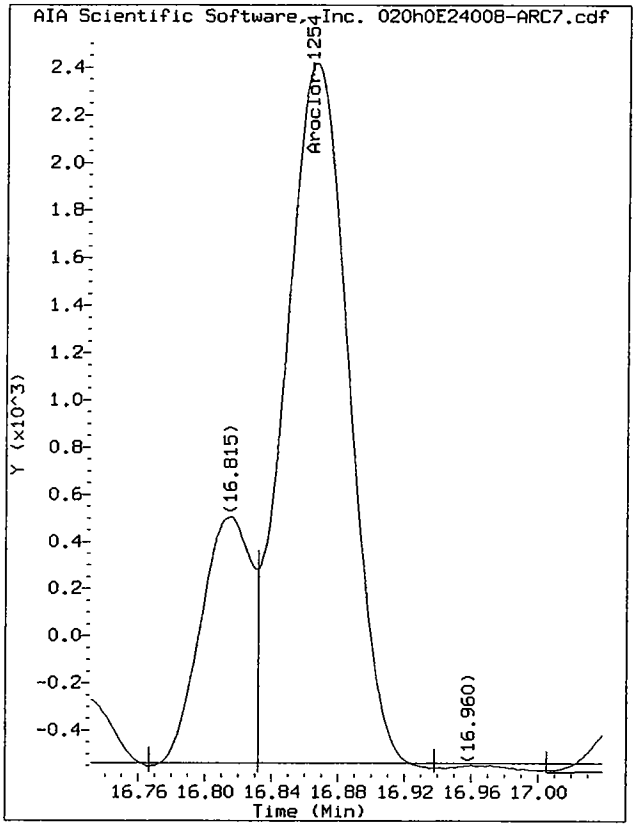
Lab Smp Id : 0E24008-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 24-MAY-2010 23:30 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.82		2399					
16.86	16.79 16.93	8197	20493	Aroclor-1254 Peak 5	0.400000	20493	M 2M
16.96		85					
17.09		1231					
17.16		613					
17.37		600					
17.63		2102					
17.68		566					
17.83		374					
17.98		2094					
18.15		318					
18.20		1374					
18.99		1136					
21.52	21.45 21.59	11734	301734	Decachlorobiphenyl	0.040000	294875	

RM 5/26/10

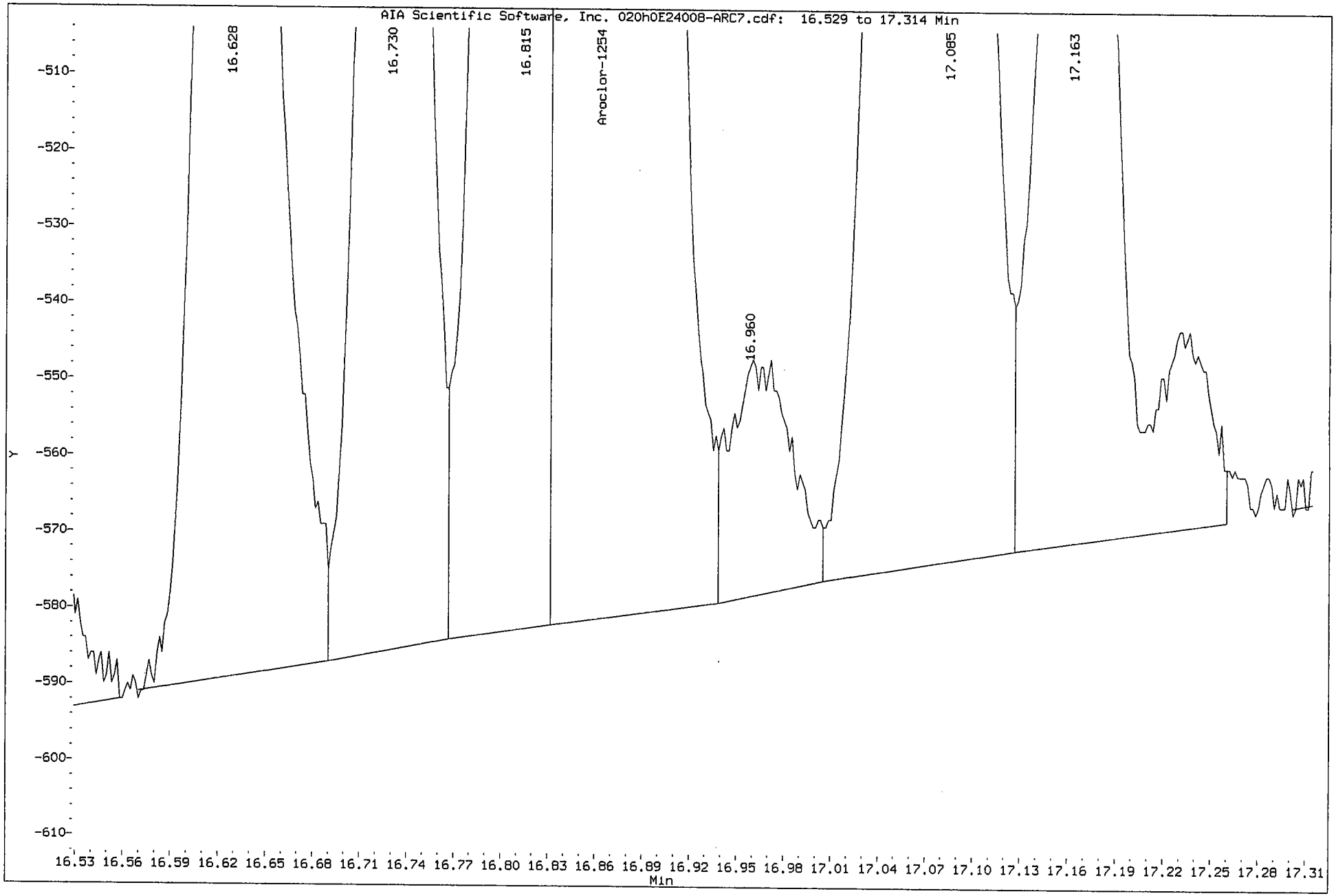
AHW 5/26/10

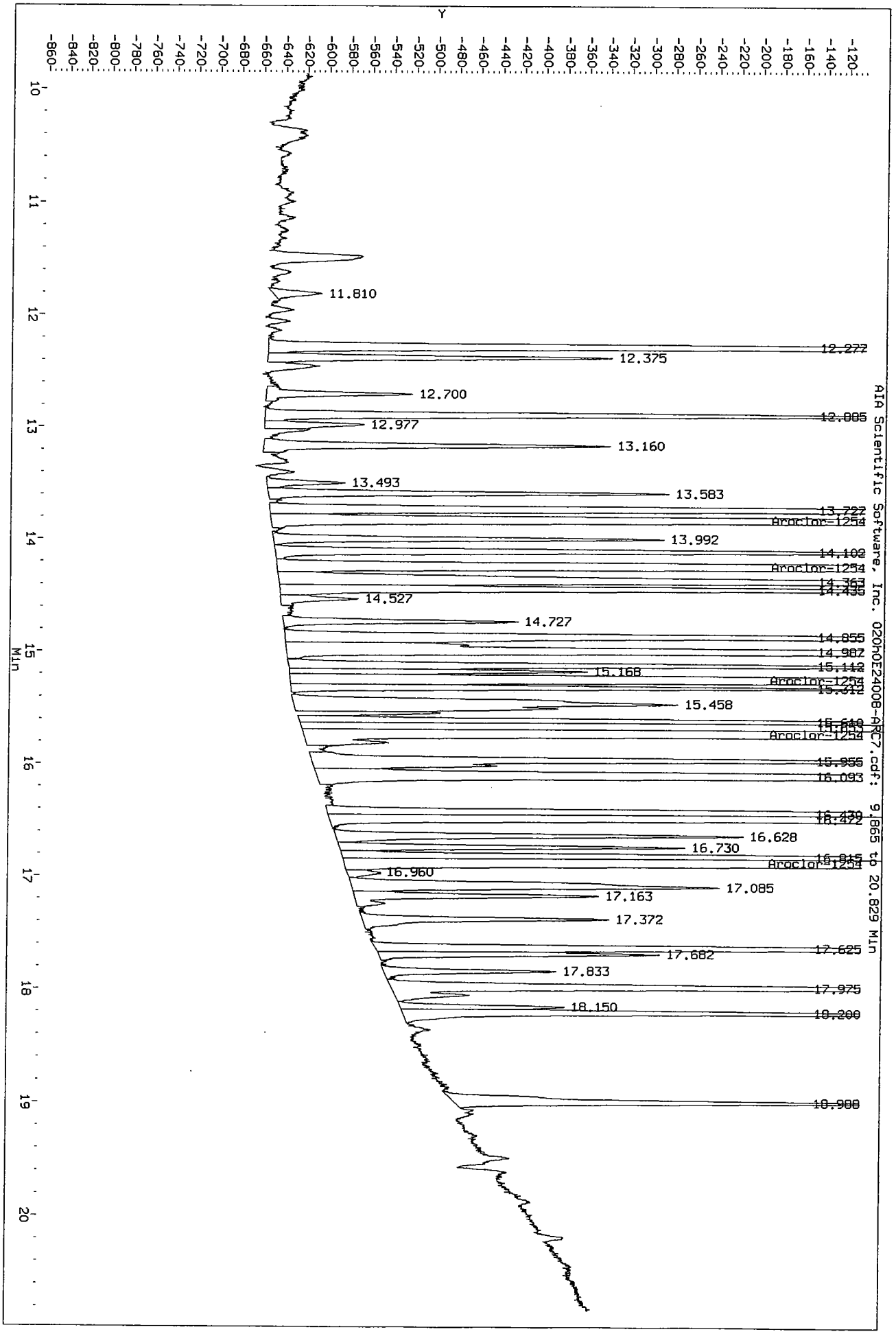
Manually Integrated Peaks



Start: 16.83 Stop: 16.94

Data File: /chem/tracegc84.i/h100524_2C.b/020h0E24008-ARC7.d/020h0E24008-ARC7.cdf
Injection Date: 24-MAY-2010 23:30
Instrument: tracegc84.i
Client Sample ID: AR12543HA

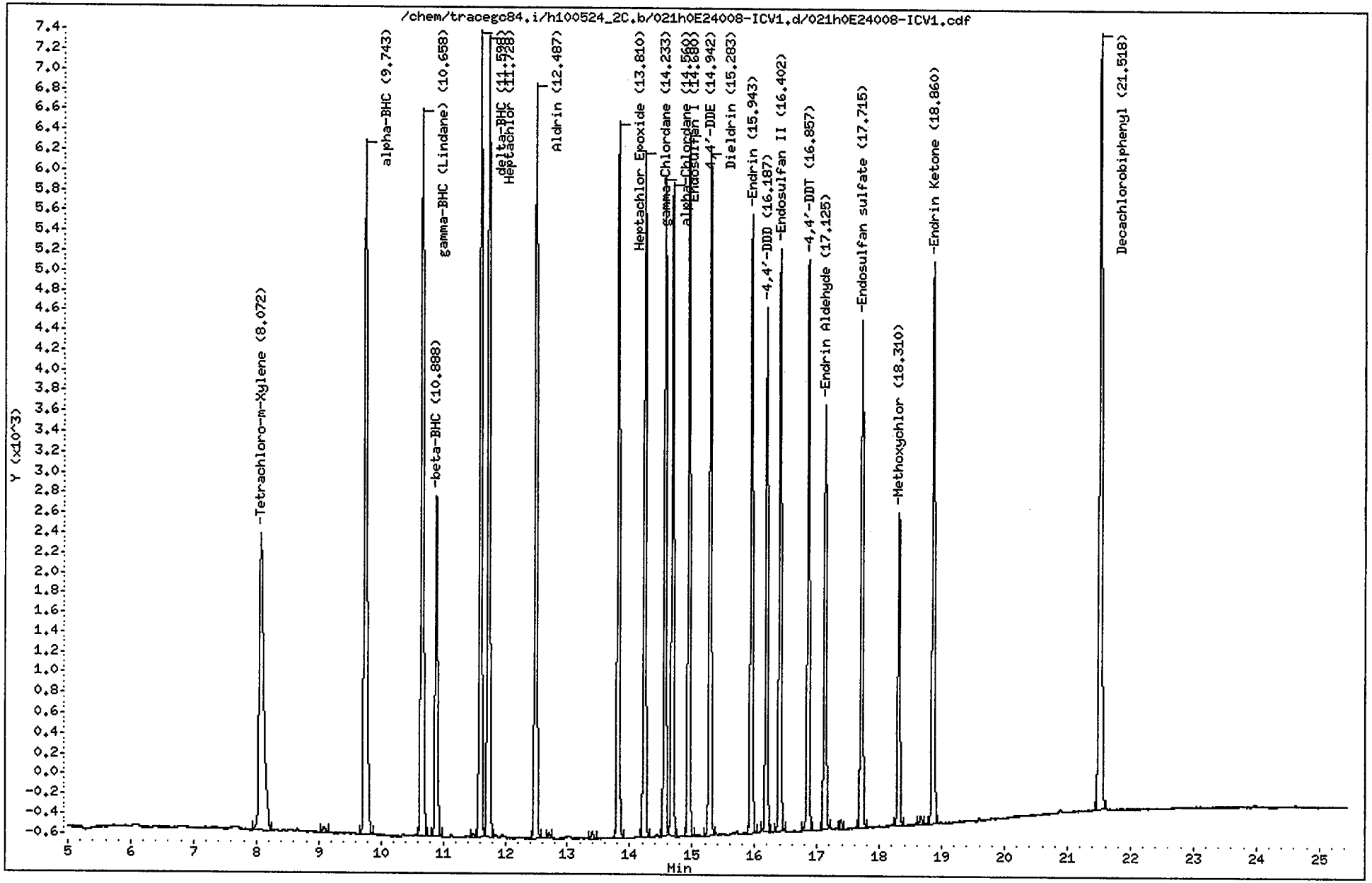



Data File: /chem/tracegc84.i/h100524_2C.b/020h0E24008-ARC7.d/020h0E24008-ARC7.cdf
Injection Date: 24-MAY-2010 23:30
Instrument: tracegc84.i
Client Sample ID: AR12543HA
AIA Scientific Software, Inc. 020h0E24008-ARC7.cdf: 9.865 to 20.829 Min
Y
Min
11.810
12.375
12.700
12.977
13.160
13.493
13.583
Aroclor-1254
13.992
Aroclor-1254
14.527
14.727
15.168
Aroclor-1254
15.458
Aroclor-1254
16.628
16.730
Aroclor-1254
16.960
17.085
17.163
17.372
17.682
17.833
18.150

Data File: /chem/tracegc84.i/h100524_2C.b/021h0E24008-ICV1.d
Date : 24-MAY-2010 23:58
Client ID: PESTCHKHA
Sample Info: 0E24008-ICV1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ICV1 Client Smp Id : PESTCHKHA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 24-MAY-2010 23:58 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : INDAchek
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : PESTCHKHA

RT	AREA
1.41	127
1.52	6872
1.94	1611
8.07	14798
9.09	175
9.74	22197
10.66	20364
10.89	9056
11.48	111
11.60	19575
11.73	20822
12.49	18919
12.70	121
13.39	183
13.81	17051
14.23	16082
14.56	15445
14.68	15605
14.94	16081
15.28	16256
15.94	14877
16.19	11598
16.40	13879
16.86	13065
17.13	10418
17.39	207
17.71	12222
18.31	7148
18.67	206
18.86	14050
21.52	22985

AHW
5/25/10

Data File: /chem/tracegc84.i/h100524_2C.b/022h0E24008-ICV2.d

Date : 25-MAY-2010 00:27

Client ID: PCBCHKHA

Instrument: tracegc84.i

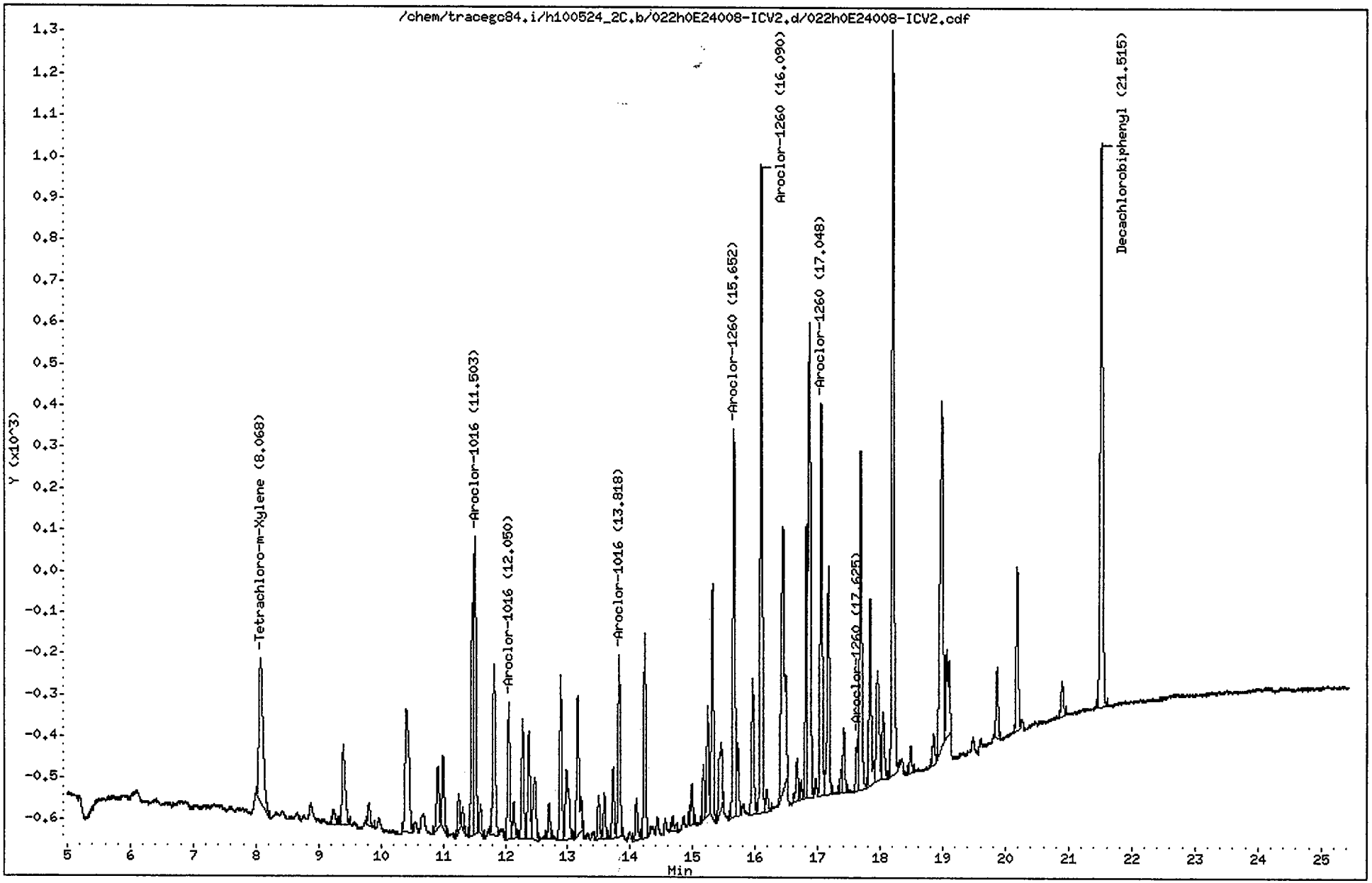
Sample Info: 0E24008-ICV2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E24008-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 25-MAY-2010 00:27 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : PCBCHKHA

RT	AREA
1.42	129
1.52	7755
1.94	100
8.07	1549
9.25	121
9.40	698
9.81	150
10.41	1300
10.91	417
10.99	449
11.25	209
11.31	113
11.46	1142
11.50	1958
11.60	169
11.81	1173
12.05	795
12.13	207
12.28	692
12.37	661
12.47	538
12.70	185
12.88	917
12.98	654
13.15	979
13.49	250
13.58	258
13.72	379
13.82	1045
14.10	261
14.23	1133
14.68	113
14.98	221
15.17	286
15.23	573
15.31	1288
15.43	570
15.65	2241
15.71	374
15.95	805
16.09	3642
16.18	137
16.44	2544
16.66	236
16.73	93

AHW
5/25/10

CompuChem

Lab Smp Id : 0E24008-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 25-MAY-2010 00:27 Inst ID :
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/h100524_2C.b/8081A_clpest2v6.m
Misc. Info : PCBCHKHA

RT	AREA
16.81	1482
16.86	3025
17.05	2226
17.16	1386
17.37	110
17.41	359
17.63	248
17.68	2085
17.83	1131
17.95	836
18.04	416
18.20	4382
18.48	156
18.85	188
18.98	2879
19.06	751
19.86	379
20.18	906
20.90	207
21.52	3920

Manual Integrations							
SDG:							
Sample(s)	0E24008-ARC1						
Compound							
alpha-BHC							
gamma-BHC							
beta-BHC							
delta-BHC							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
gamma-Chlordane							
alpha-Chlordane							
Endosulfan I							
4,4'-DDE							
Dieldrin							
Endrin							
4,4'-DDD							
Endosulfan II							
4,4'-DDT							
Endrin Aldehyde							
Endosulfan sulfate							
Methoxychlor							
Endrin Ketone							
Toxaphene	x						
Technical Chordane							
Tetrachloro-m-xylene							
Decachlorbiphenyl							
"X" Denotes a manual integration for the compound							

Manual Integrations

SDG:

Sample(s)	0E24008-ARC7					
Compound						
Aroclor 1221						
Aroclor 1232						
Aroclor 1016						
Aroclor 1242						
Aroclor 1248						
Aroclor 1254	x					
Aroclor 1260						
Tetrachloro-m-xylene						
Decachlorbiphenyl						

"X" Denotes a manual integration for the compound

Manual Integrations

SDG:

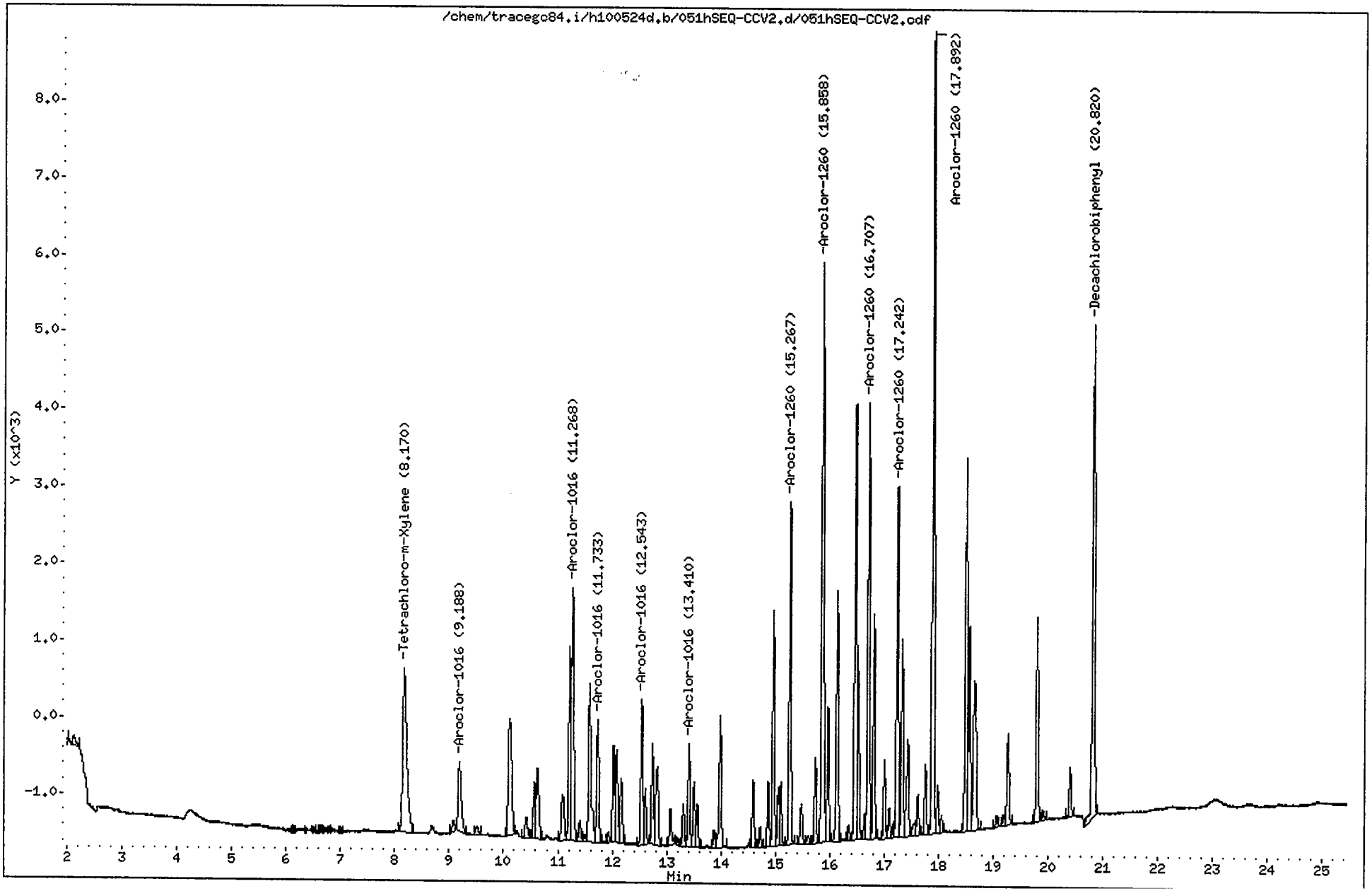
Sample(s)	0E24008-CAL8	0E24008-ARC7				
Compound						
Aroclor 1221						
Aroclor 1232						
Aroclor 1016	X					
Aroclor 1242						
Aroclor 1248						
Aroclor 1254		X				
Aroclor 1260						
Tetrachloro-m-xylene						
Decachlorbiphenyl						

"X" Denotes a manual integration for the compound

Manual Integrations							
SDG:							
Sample(s)	0E24008-ARC1	0E24008-ARC2					
Compound							
alpha-BHC							
gamma-BHC							
beta-BHC							
delta-BHC							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
gamma-Chlordane							
alpha-Chlordane							
Endosulfan I							
4,4'-DDE							
Dieldrin							
Endrin							
4,4'-DDD							
Endosulfan II							
4,4'-DDT							
Endrin Aldehyde							
Endosulfan sulfate							
Methoxychlor							
Endrin Ketone							
Toxaphene	X						
Technical Chordane		X					
Tetrachloro-m-xylene							
Decachlorbiphenyl							
"X" Denotes a manual integration for the compound							

Data File: /chem/tracegc84.i/h100524d.b/051hSEQ-CCV2.d
Date : 25-MAY-2010 22:25
Client ID: AR16603HJ
Sample Info: SEQ-CCV2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : AR16603HJ
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 25-MAY-2010 22:25 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : AR16603HJ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.40			126								
1.52			33653								
1.95			324								
2.12			499								
8.17	8.11	8.25	11201	539702	Tetrachloro-m-Xylene	0.020000	560045	-3.8	20.0		
9.08			473								
9.19	9.13	9.27	3606	9223	Aroclor-1016 Peak 1	0.400000	9012.500	2.3	20.0		
9.52			409								
10.11			6828								
10.42			894								
10.57			1985								
10.63			2978								
11.09			2197								
11.21			6270								
11.27	11.21	11.35	9756	23879	Aroclor-1016 Peak 2	0.400000	24387	-2.1	20.0		
11.41			723								
11.50			228								
11.59			6808								
11.73	11.67	11.81	4349	10671	Aroclor-1016 Peak 3	0.400000	10870	-1.9	20.0		
11.93			317								
12.02			3172								
12.08			3264								
12.16			2636								
12.54	12.48	12.62	4915	11763	Aroclor-1016 Peak 4	0.400000	12285	-4.4	20.0		
12.61			1809								
12.74			3202								
12.83			3843								
13.08			1358								
13.21			189								
13.31			1336								
13.41	13.35	13.49	3343	7944	Aroclor-1016 Peak 5	0.400000	8355.000	-5.2	20.0		
13.50			2157								
13.57			1395								
13.87			556								
13.99			4694								
14.59			2276								
14.72			627								
14.87			1996								
14.96			7407								
15.05			1814								
15.10			1914								
15.27	15.21	15.35	10858	26679	Aroclor-1260 Peak 1	0.400000	27143	-1.7	20.0		

AHW
5/26/10

CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : AR16603HJ
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 25-MAY-2010 22:25 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : AR16603HJ

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
15.48		1519								
15.60		315								
15.73		2564								
15.86	15.80 15.94	21072	52337	Aroclor-1260 Peak 2	0.400000	52680	-0.7	20.0		
15.97		4208								
16.14		8249								
16.35		457								
16.47		15234								
16.52		5164								
16.64		731								
16.71	16.65 16.79	13915	34082	Aroclor-1260 Peak 3	0.400000	34787	-2.1	20.0		
16.81		7053								
17.00		2388								
17.09		933								
17.17		391								
17.24	17.18 17.32	11509	28643	Aroclor-1260 Peak 4	0.400000	28773	-0.5	20.0		
17.33		6240								
17.43		3827								
17.55		532								
17.62		1272								
17.76		2186								
17.89	17.83 17.97	25763	63755	Aroclor-1260 Peak 5	0.400000	64407	-1.0	20.0		
17.98		1455								
18.05		526								
18.50		12173								
18.57		6408								
18.66		7524								
19.06		307								
19.19		349								
19.27		3075								
19.80		6496								
19.91		310								
20.40		1578								
20.82	20.77 20.91	17969	444411	Decachlorobiphenyl	0.040000	449227	-1.1	20.0		

Data File: /chem/tracegc84.i/h100524d.b/052hSEQ-CCV3.d

Date : 25-MAY-2010 22:54

Client ID: INDC3HJ

Sample Info: SEQ-CCV3

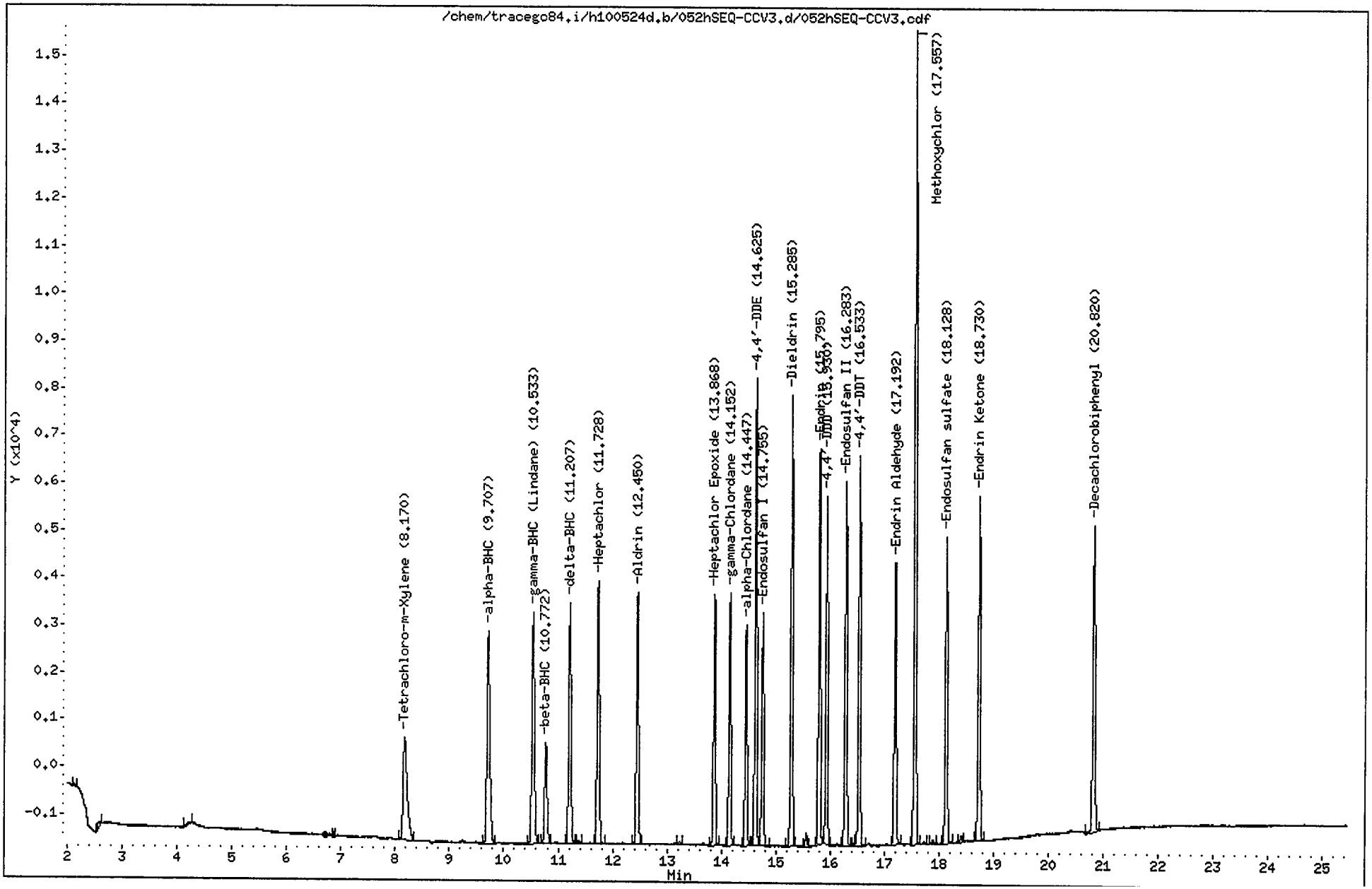
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3HJ
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 25-MAY-2010 22:54 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : INDC3HJ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.51			35277								
2.12			225								
2.57			423								
4.23			296								
6.87			145								
8.17	8.11	8.25	11212	539702	Tetrachloro-m-Xylene	0.020000	560550	-3.9	20.0		
9.71	9.65	9.79	16488	802020	alpha-BHC	0.020000	824350	-2.8	20.0		
10.53	10.48	10.62	15651	758655	gamma-BHC (Lindane)	0.020000	782550	-3.1	20.0		
10.77	10.71	10.85	6511	318610	beta-BHC	0.020000	325500	-2.2	20.0		
11.21	11.15	11.29	14613	704062	delta-BHC	0.020000	730600	-3.8	20.0		
11.37			140								
11.73	11.67	11.81	15561	750482	Heptachlor	0.020000	778000	-3.7	20.0		
12.45	12.39	12.53	14200	689285	Aldrin	0.020000	710000	-3.0	20.0		
13.24			160								
13.87	13.81	13.95	13172	642292	Heptachlor Epoxide	0.020000	658600	-2.5	20.0		
14.15	14.10	14.24	13225	652722	gamma-Chlordane	0.020000	661250	-1.3	20.0		
14.45	14.39	14.53	11590	564490	alpha-Chlordane	0.020000	579500	-2.7	20.0		
14.62	14.57	14.71	23282	569541	4,4'-DDE	0.040000	582050	-2.2	20.0		
14.76	14.70	14.84	12231	594888	Endosulfan I	0.020000	611550	-2.8	20.0		
15.28	15.23	15.37	23218	570655	Dieldrin	0.040000	580425	-1.7	20.0		
15.56			615								
15.80	15.74	15.88	20957	519295	Endrin	0.040000	523900	-0.9	20.0		
15.93	15.87	16.01	16680	417785	4,4'-DDD	0.040000	417000	0.2	20.0		
16.28	16.23	16.37	19526	484260	Endosulfan II	0.040000	488125	-0.8	20.0		
16.44			147								
16.53	16.48	16.62	19626	486148	4,4'-DDT	0.040000	490650	-0.9	20.0		
17.19	17.14	17.28	15106	367936	Endrin Aldehyde	0.040000	377625	-2.6	20.0		
17.56	17.50	17.64	40828	208219	Methoxychlor	0.200000	204135	2.0	20.0		
17.73			159								
17.89			231								
18.13	18.07	18.21	16296	409905	Endosulfan sulfate	0.040000	407375	0.6	20.0		
18.41			341								
18.73	18.68	18.82	18876	478826	Endrin Ketone	0.040000	471875	1.5	20.0		
20.82	20.77	20.91	17693	444411	Decachlorobiphenyl	0.040000	442300	0.5	20.0		

AHW
5/26/10

Data File: /chem/tracegc84.i/h100524d.b/053hSEQ-PEM2.d

Date : 25-MAY-2010 23:23

Client ID: PEMHJ

Instrument: tracegc84.i

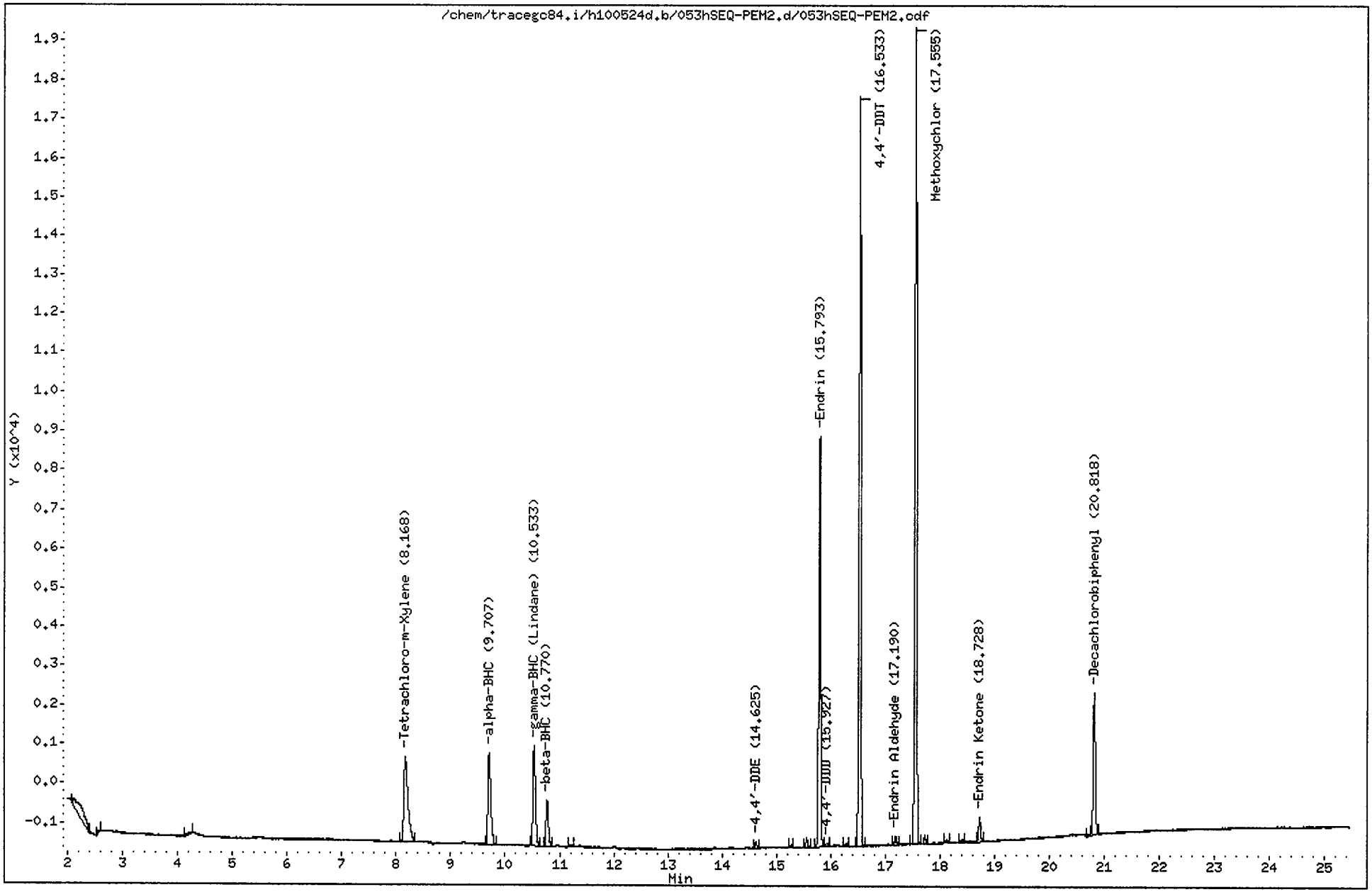
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMHJ
Sample Type : SAMPLE Sublist : PEM
Inj Date : 25-MAY-2010 23:23 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : PEMHJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.51			37308								
2.11			3557								
2.56			145								
4.24			269								
8.17	8.11	8.25	11295	539702	Tetrachloro-m-xylene	0.020929	0.020929		105.7	30 - 150	
9.71	9.65	9.79	8495	802020	alpha-BHC	0.010593	0.010593	0.010000			
10.53	10.48	10.62	8079	758655	gamma-BHC (Lindane)	0.010650	0.010650	0.010000			
10.77	10.71	10.85	3499	318610	beta-BHC	0.010981	0.010981	0.010000			
11.21			141								
14.62	14.57	14.71	400	569541	4,4'-DDE	0.000703	0.000703	0.020000			J
15.29			178								
15.56			529								
15.79	15.74	15.88	25987	519295	Endrin	0.050043	0.050043	0.020000			
15.93	15.87	16.01	207	417785	4,4'-DDD	0.000496	0.000496	0.020000			J
16.28			176								
16.53	16.48	16.62	45440	486148	4,4'-DDT	0.093469	0.093469	0.010000			
17.19	17.14	17.28	553	367936	Endrin aldehyde	0.001504	0.001504	0.020000			J
17.56	17.50	17.64	50270	208219	Methoxychlor	0.241429	0.241429	0.100000			
17.72			456								
18.13			204								
18.41			175								
18.73	18.68	18.82	1494	478826	Endrin ketone	0.003119	0.003119	0.020000			J
20.74			130								
20.82	20.77	20.91	9893	444411	Decachlorobiphenyl	0.022261	0.022261		56.2	30 - 150	

AHW
5/27/10

Data File: /chem/tracegc84.i/h100524d_2C.b/051hSEQ-CCV2.d

Date : 25-MAY-2010 22:25

Client ID: AR16603HJ

Instrument: tracegc84.i

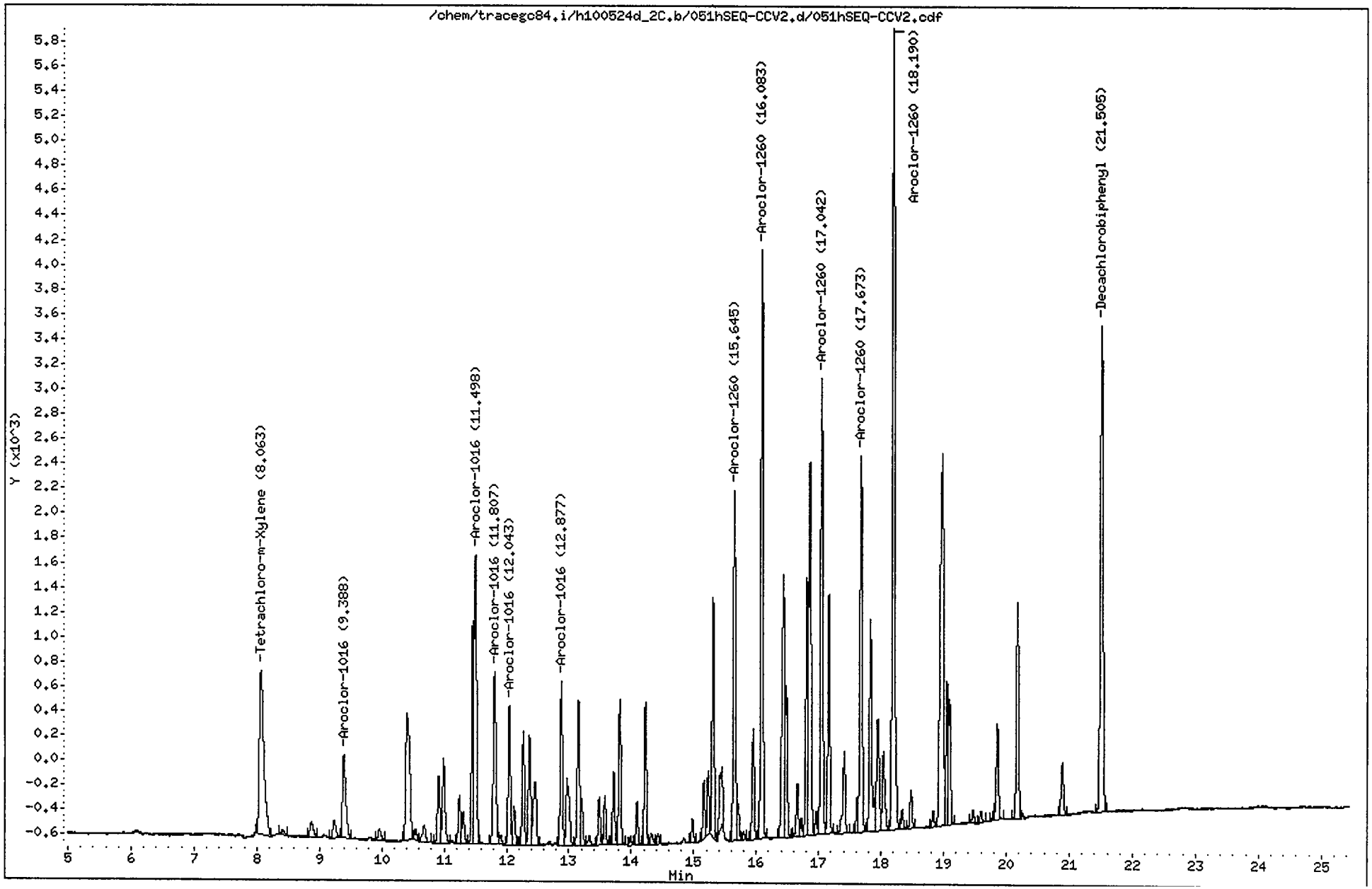
Sample Info: SEQ-CCV2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : AR16603HJ
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 25-MAY-2010 22:25 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603HJ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.41			119								
1.52			8988								
1.95			431								
8.06	8.01	8.15	6596	345165	Tetrachloro-m-Xylene	0.020000	329810	4.4	20.0		
8.42			131								
8.87			431								
9.24			496								
9.39	9.33	9.47	2470	6174	Aroclor-1016 Peak 1	0.400000	6175.000	0.0	20.0		
9.96			295								
10.40			4496								
10.54			217								
10.68			475								
10.91			1458								
10.99			1955								
11.24			955								
11.31			648								
11.46			3842								
11.50	11.44	11.58	6405	15968	Aroclor-1016 Peak 2	0.400000	16010	-0.3	20.0		
11.81	11.75	11.89	4243	10310	Aroclor-1016 Peak 3	0.400000	10605	-2.9	20.0		
11.91			200								
12.04	11.98	12.12	2783	6671	Aroclor-1016 Peak 4	0.400000	6955.000	-4.3	20.0		
12.12			734								
12.27			2236								
12.37			2346								
12.46			1818								
12.88	12.81	12.95	3164	7882	Aroclor-1016 Peak 5	0.400000	7910.000	-0.4	20.0		
12.97			1985								
13.15			3072								
13.20			817								
13.33			230								
13.48			902								
13.57			903								
13.72			1391								
13.81			2913								
13.98			139								
14.09			776								
14.22			2682								
14.32			264								
14.43			178								
14.98			416								
15.16			1014								
15.23			1077								

AHW
5/26/10

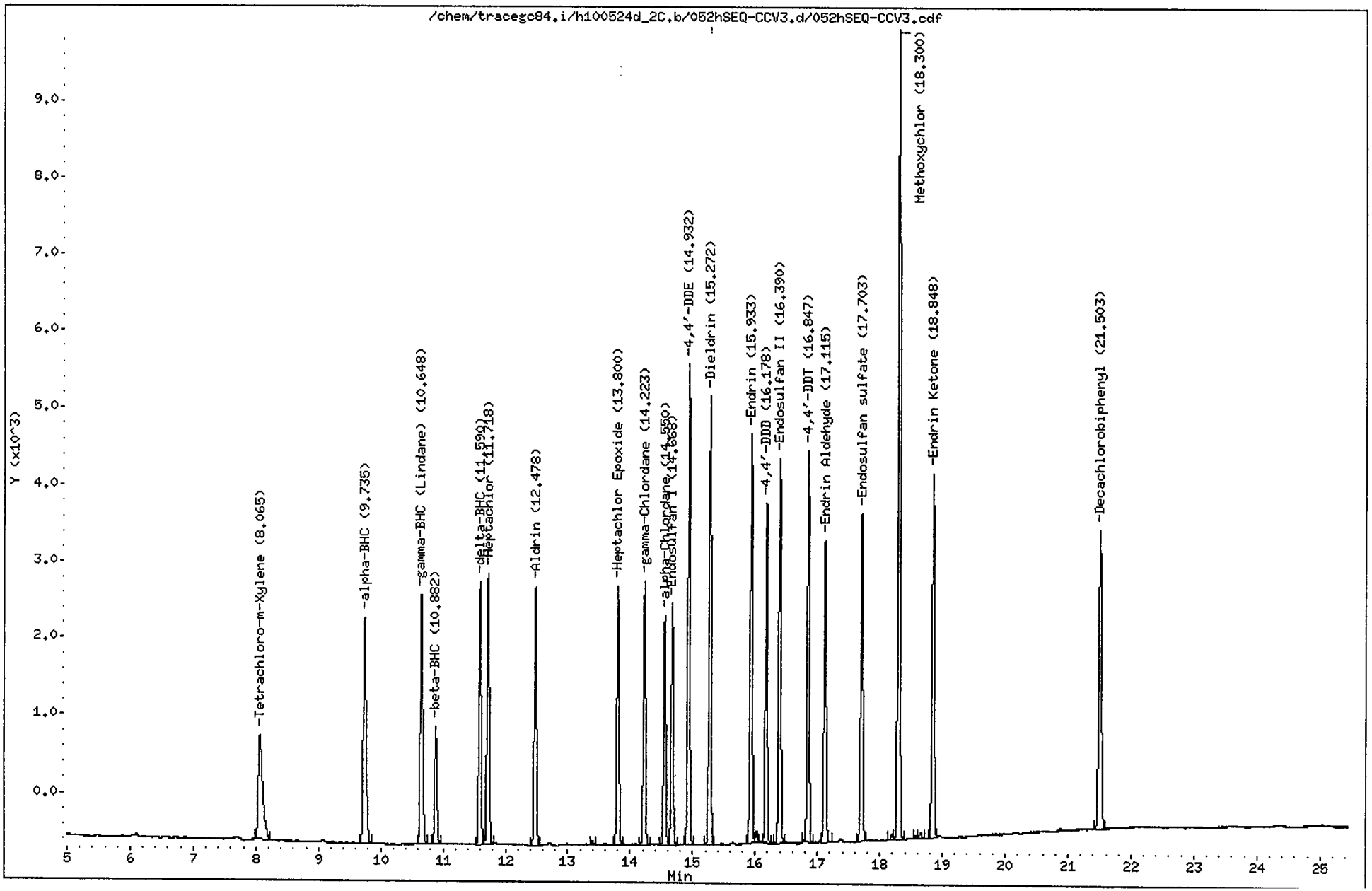
CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : AR16603HJ
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 25-MAY-2010 22:25 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603HJ

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
15.30		4463								
15.42		1809								
15.64	15.59 15.73	6884	17594	Aroclor-1260 Peak 1	0.400000	17210	2.2	20.0		
15.71		594								
15.80		134								
15.95		2072								
16.08	16.03 16.17	11253	28488	Aroclor-1260 Peak 2	0.400000	28133	1.2	20.0		
16.43		6597								
16.48		2594								
16.66		997								
16.72		308								
16.81		4936								
16.86		8094								
16.96		413								
17.04	16.98 17.12	8802	22033	Aroclor-1260 Peak 3	0.400000	22005	0.1	20.0		
17.16		4462								
17.41		1783								
17.62		517								
17.67	17.61 17.75	7464	18810	Aroclor-1260 Peak 4	0.400000	18657	0.8	20.0		
17.83		4569								
17.94		2713								
18.04		1775								
18.19	18.13 18.27	16523	41418	Aroclor-1260 Peak 5	0.400000	41305	0.3	20.0		
18.34		345								
18.48		675								
18.83		280								
18.98		11391								
19.05		2617								
19.09		2318								
19.47		258								
19.59		233								
19.80		146								
19.85		1863								
20.17		4197								
20.89		1070								
21.50	21.45 21.59	11458	301734	Decachlorobiphenyl	0.040000	286458	5.1	20.0		

Data File: /chem/tracegc84.i/h100524d_2C.b/052hSEQ-CCV3.d
Date : 25-MAY-2010 22:54
Client ID: INDC3HJ
Sample Info: SEQ-CCV3
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

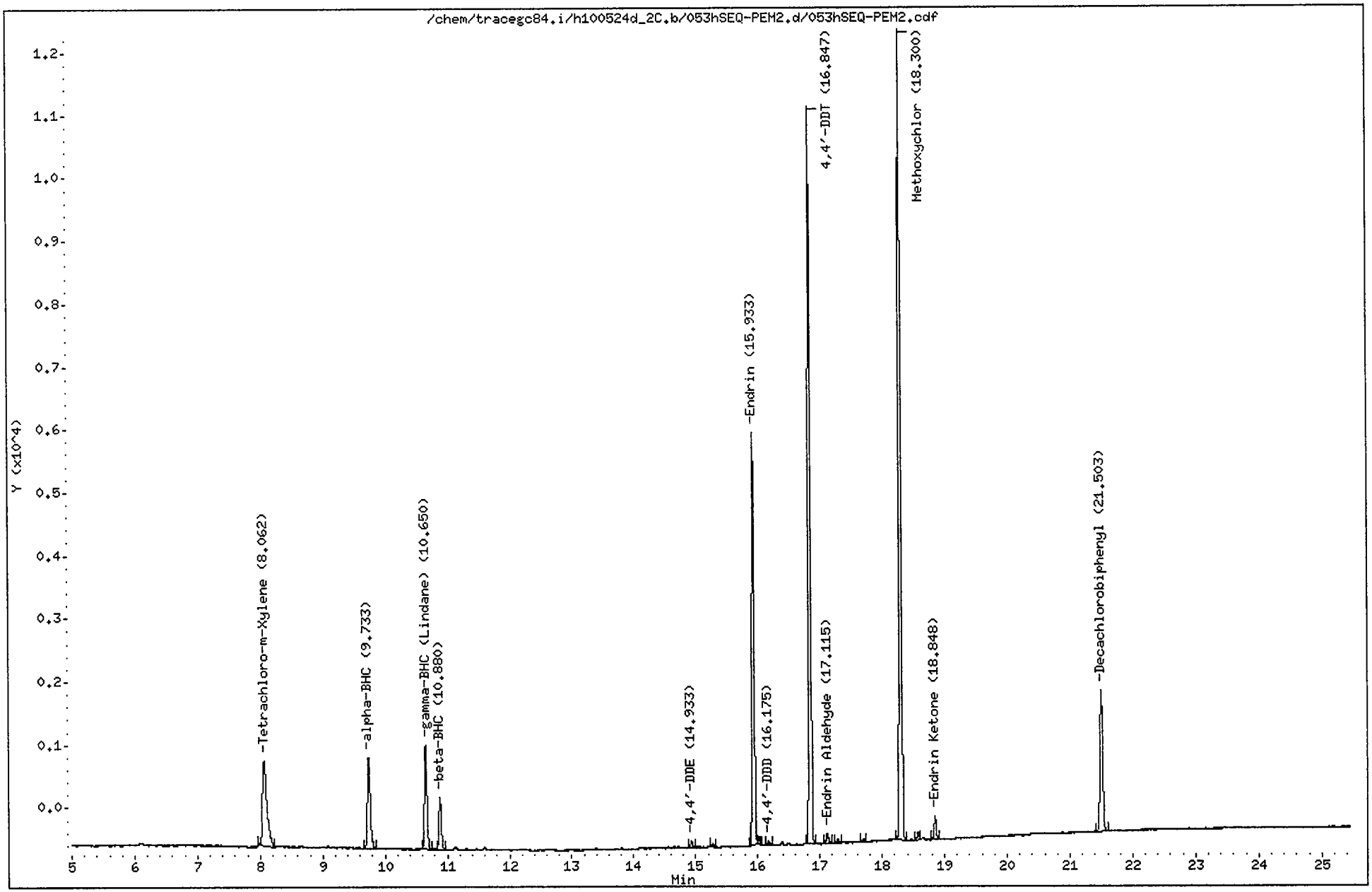
Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3HJ
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 25-MAY-2010 22:54 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3HJ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.42			117								
1.53			10158								
1.95			336								
2.52			138								
8.06	8.01	8.15	6638	345165	Tetrachloro-m-Xylene	0.020000	331900	3.8	20.0		
9.74	9.68	9.82	9274	473680	alpha-BHC	0.020000	463700	2.1	20.0		
10.65	10.59	10.73	8965	450035	gamma-BHC (Lindane)	0.020000	448200	0.4	20.0		
10.88	10.83	10.97	4054	203322	beta-BHC	0.020000	202650	0.3	20.0		
11.59	11.53	11.67	8314	416372	delta-BHC	0.020000	415700	0.2	20.0		
11.72	11.66	11.80	9083	447981	Heptachlor	0.020000	454150	-1.4	20.0		
12.48	12.42	12.56	8289	415475	Aldrin	0.020000	414400	0.3	20.0		
13.39			118								
13.80	13.75	13.89	7919	397168	Heptachlor Epoxide	0.020000	395900	0.3	20.0		
14.22	14.17	14.31	7897	394802	gamma-Chlordane	0.020000	394850	0.0	20.0		
14.55	14.49	14.63	6986	348692	alpha-Chlordane	0.020000	349250	-0.2	20.0		
14.67	14.61	14.75	7477	375212	Endosulfan I	0.020000	373800	0.4	20.0		
14.93	14.88	15.02	13963	352110	4,4'-DDE	0.040000	349050	0.9	20.0		
15.27	15.22	15.36	13860	348230	Dieldrin	0.040000	346475	0.5	20.0		
15.93	15.88	16.02	12632	319049	Endrin	0.040000	315800	1.0	20.0		
16.02			298								
16.18	16.12	16.26	9718	248368	4,4'-DDD	0.040000	242925	2.2	20.0		
16.39	16.34	16.48	11971	304391	Endosulfan II	0.040000	299275	1.7	20.0		
16.85	16.79	16.93	11625	294834	4,4'-DDT	0.040000	290625	1.4	20.0		
17.12	17.06	17.20	9523	239136	Endrin Aldehyde	0.040000	238050	0.5	20.0		
17.70	17.65	17.79	10407	267371	Endosulfan sulfate	0.040000	260150	2.7	20.0		
18.19			163								
18.30	18.25	18.39	25111	129586	Methoxychlor	0.200000	125555	3.1	20.0		
18.58			90								
18.66			193								
18.85	18.80	18.94	11835	304950	Endrin Ketone	0.040000	295850	3.0	20.0		
21.50	21.45	21.59	11528	301734	Decachlorobiphenyl	0.040000	288175	4.5	20.0		

AHW
5/26/10

Data File: /chem/tracegc84.i/h100524d_2C.b/053hSEQ-PEM2.d
Date : 25-MAY-2010 23:23
Client ID: PEMHJ
Sample Info: SEQ-PEM2
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMHJ
Sample Type : SAMPLE Sublist : PEM
Inj Date : 25-MAY-2010 23:23 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

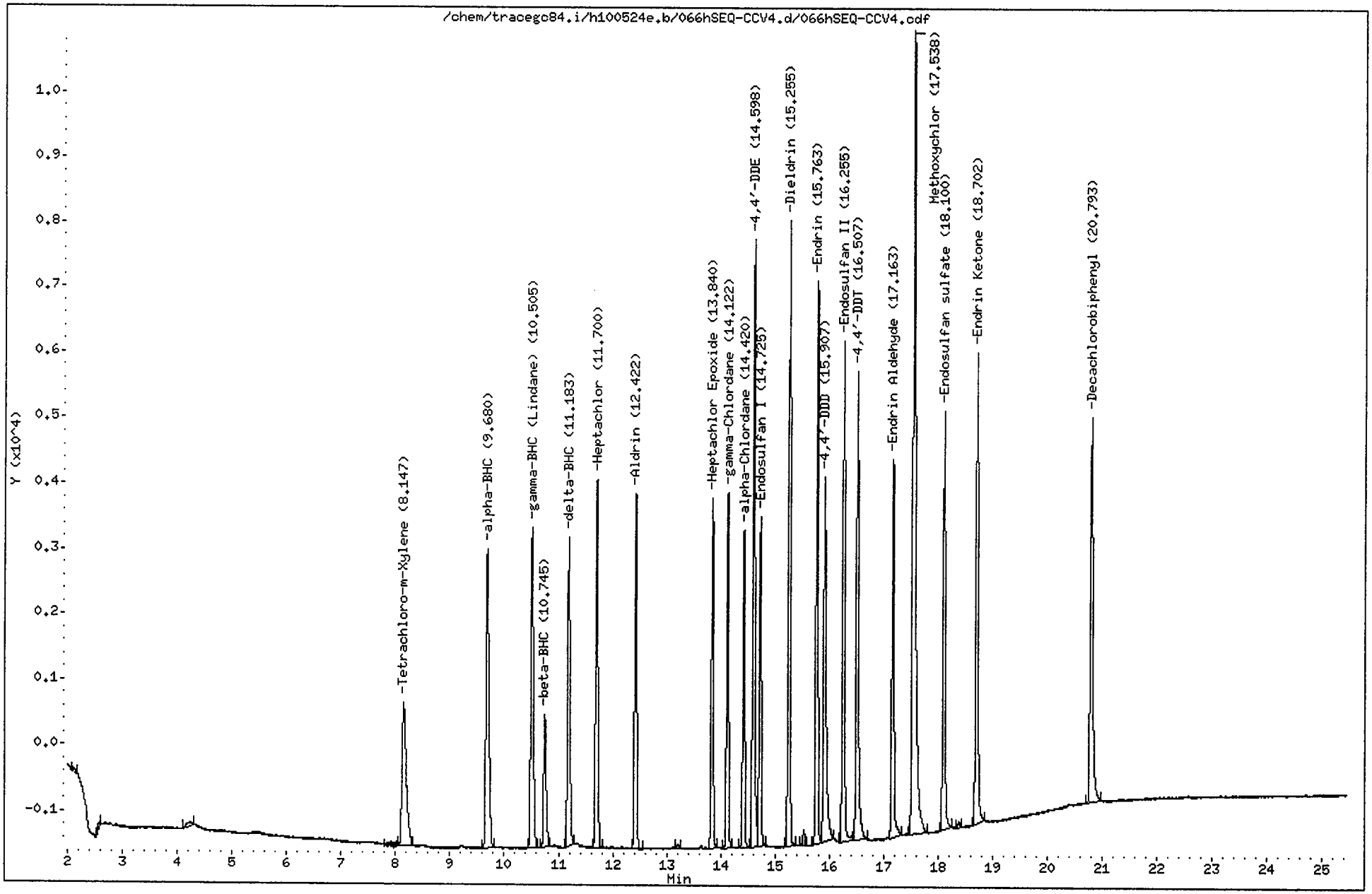
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.41			105								
1.52			10849								
1.94			216								
2.52			103								
8.06	8.01	8.15	6701	345165	Tetrachloro-m-xylene	0.019413	0.019413		98.0	30 - 150	
9.73	9.68	9.82	4635	473680	alpha-BHC	0.009785	0.009785	0.010000			J
10.65	10.59	10.73	4518	450035	gamma-BHC (Lindane)	0.010040	0.010040	0.010000			J
10.88	10.83	10.97	2168	203322	beta-BHC	0.010664	0.010664	0.010000			
14.93	14.88	15.02	220	352110	4,4'-DDE	0.000626	0.000626	0.020000			J
15.27			95								
15.93	15.88	16.02	15430	319049	Endrin	0.048364	0.048364	0.020000			
16.02			223								
16.18	16.12	16.26	141	248368	4,4'-DDD	0.000568	0.000568	0.020000			J
16.85	16.79	16.93	26944	294834	4,4'-DDT	0.091386	0.091386	0.010000			
17.12	17.06	17.20	446	239136	Endrin aldehyde	0.001863	0.001863	0.020000			J
17.29			140								
17.70			129								
18.30	18.25	18.39	30738	129586	Methoxychlor	0.237198	0.237198	0.100000			
18.57			267								
18.85	18.80	18.94	915	304950	Endrin ketone	0.003000	0.003000	0.020000			J
21.50	21.45	21.59	6536	301734	Decachlorobiphenyl	0.021660	0.021660		54.7	30 - 150	

AHW
5/26/10

Data File: /chem/tracegc84.i/h100524e.b/066hSEQ-CCV4.d
Date : 26-MAY-2010 05:39
Client ID: INDC3HL
Sample Info: SEQ-CCV4
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV4
Client Smp Id : INDC3HL
Sample Type : CONT CAL: Level 3
Sublist : INDA
Inj Date : 26-MAY-2010 05:39
Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : INDC3HL

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.50			3885								
2.11			211								
2.57			272								
4.23			393								
8.15	8.08	8.22	11640	539702	Tetrachloro-m-Xylene	0.020000	582005	-7.8	20.0		
9.68	9.61	9.75	17038	802020	alpha-BHC	0.020000	851885	-6.2	20.0		
10.50	10.43	10.57	15957	758655	gamma-BHC (Lindane)	0.020000	797857	-5.2	20.0		
10.74	10.67	10.81	6309	318610	beta-BHC	0.020000	315440	1.0	20.0		
11.18	11.11	11.25	14148	704062	delta-BHC	0.020000	707420	-0.5	20.0		
11.70	11.63	11.77	16005	750482	Heptachlor	0.020000	800255	-6.6	20.0		
12.42	12.35	12.49	14657	689285	Aldrin	0.020000	732875	-6.3	20.0		
13.20			155								
13.84	13.77	13.91	13473	642292	Heptachlor Epoxide	0.020000	673653	-4.9	20.0		
14.12	14.05	14.19	13464	652722	gamma-Chlordane	0.020000	673185	-3.1	20.0		
14.42	14.35	14.49	11797	564490	alpha-Chlordane	0.020000	589850	-4.5	20.0		
14.60	14.53	14.67	23863	569541	4,4'-DDE	0.040000	596581	-4.7	20.0		
14.72	14.65	14.79	12962	594888	Endosulfan I	0.020000	648093	-8.9	20.0		
15.26	15.19	15.33	23750	570655	Dieldrin	0.040000	593755	-4.0	20.0		
15.53			555								
15.76	15.69	15.83	21865	519295	Endrin	0.040000	546632	-5.3	20.0		
15.91	15.84	15.98	17871	417785	4,4'-DDD	0.040000	446776	-6.9	20.0		
16.26	16.19	16.33	20209	484260	Endosulfan II	0.040000	505214	-4.3	20.0		
16.51	16.44	16.58	20068	486148	4,4'-DDT	0.040000	501693	-3.2	20.0		
17.16	17.09	17.23	15519	367936	Endrin Aldehyde	0.040000	387966	-5.4	20.0		
17.54	17.47	17.61	45879	208219	Methoxychlor	0.200000	229393	-10.2	20.0		
18.10	18.03	18.17	17083	409905	Endosulfan sulfate	0.040000	427065	-4.2	20.0		
18.38			227								
18.70	18.63	18.77	19841	478826	Endrin Ketone	0.040000	496013	-3.6	20.0		
20.79	20.72	20.86	18890	444411	Decachlorobiphenyl	0.040000	472250	-6.3	20.0		

5/26/10

Data File: /chem/tracegc84.i/h100524e.b/067hSEQ-PEM3.d

Date : 26-MAY-2010 06:08

Client ID: PEMHL

Instrument: tracegc84.i

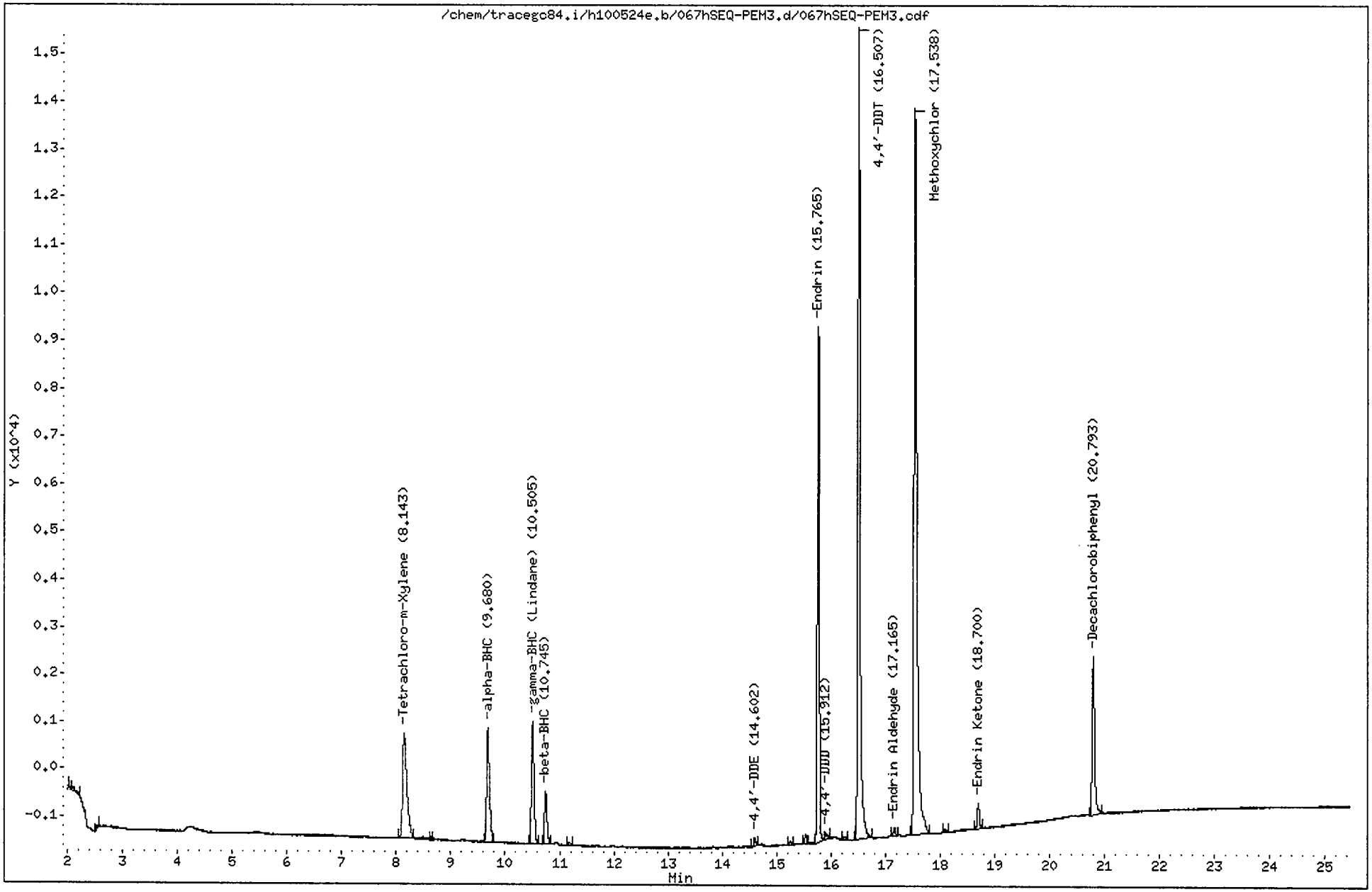
Sample Info: SEQ-PEM3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMHL
Sample Type : SAMPLE Sublist : PEM
Inj Date : 26-MAY-2010 06:08 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : PEMHL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.48			5438								
1.50			34739								
1.93			695								
2.10			333								
2.54			140								
8.14	8.08	8.22	11791	539702	Tetrachloro-m-xylene	0.021846	0.021846		110.3	30 - 150	
8.65			159								
9.68	9.61	9.75	8875	802020	alpha-BHC	0.011066	0.011066	0.010000			
10.50	10.43	10.57	8371	758655	gamma-BHC (Lindane)	0.011035	0.011035	0.010000			
10.74	10.67	10.81	3434	318610	beta-BHC	0.010779	0.010779	0.010000			
11.18			134								
14.60	14.53	14.67	453	569541	4,4'-DDE	0.000795	0.000795	0.020000			J
15.25			166								
15.53			514								
15.76	15.69	15.83	27249	519295	Endrin	0.052474	0.052474	0.020000			
15.91	15.84	15.98	319	417785	4,4'-DDD	0.000763	0.000763	0.020000			J
16.25			155								
16.51	16.44	16.58	48609	486148	4,4'-DDT	0.099989	0.099989	0.010000			
17.16	17.09	17.23	475	367936	Endrin aldehyde	0.001292	0.001292	0.020000			J
17.54	17.47	17.61	57574	208219	Methoxychlor	0.276509	0.276509	0.100000			
18.10			184								
18.70	18.63	18.77	1411	478826	Endrin ketone	0.002947	0.002947	0.020000			J
20.79	20.72	20.86	10464	444411	Decachlorobiphenyl	0.023546	0.023546		59.5	30 - 150	

AHW
5/27/10

Data File: /chem/tracegc84.i/h100524e_2C.b/066hSEQ-CCV4.d

Date : 26-MAY-2010 05:39

Client ID: INDC3HL

Sample Info: SEQ-CCV4

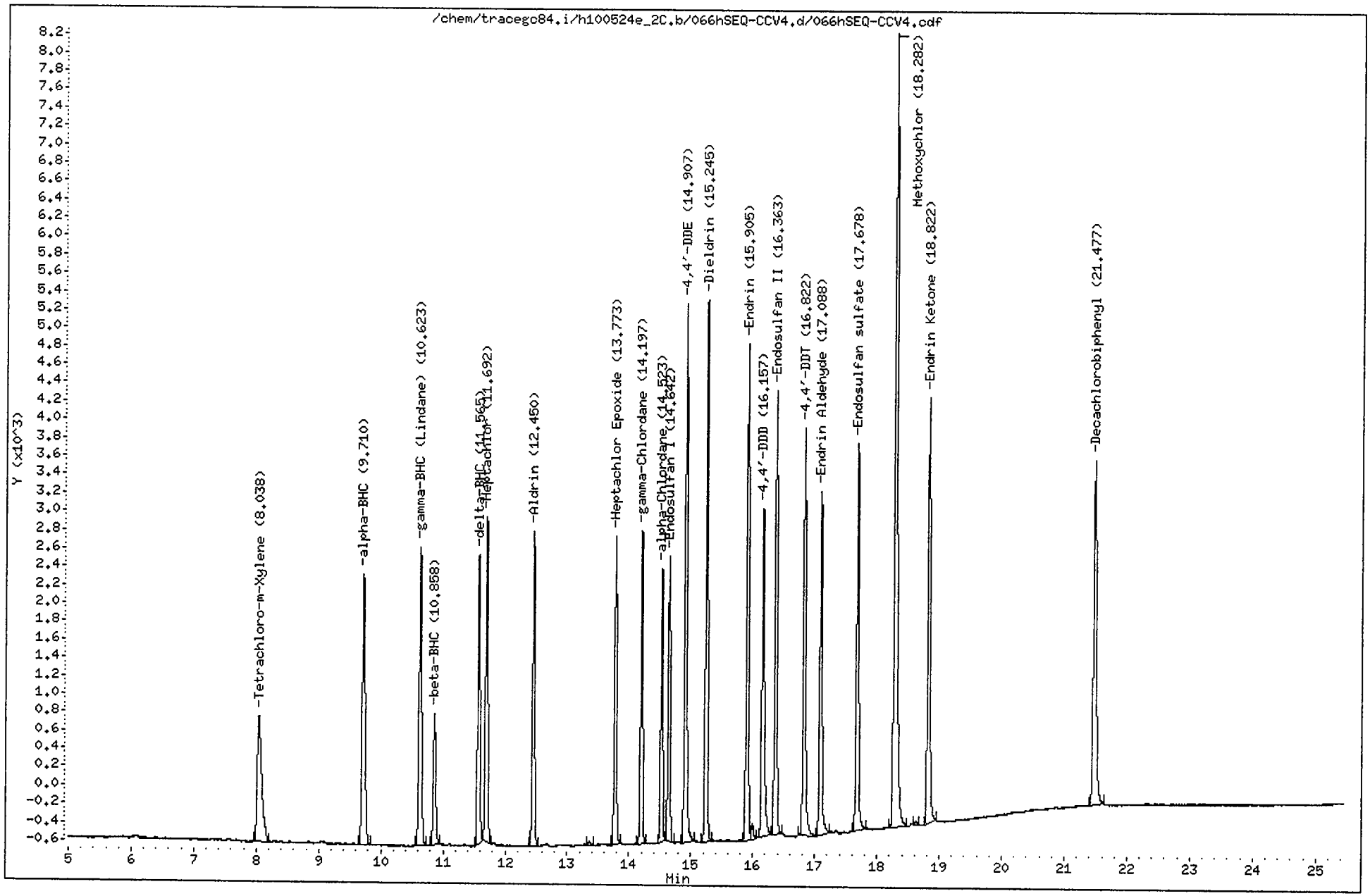
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV4 Client Smp Id : INDC3HL
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 26-MAY-2010 05:39 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3HL

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.40			142								
1.53			10442								
1.93			161								
2.51			154								
8.04	7.97	8.11	6953	345165	Tetrachloro-m-Xylene	0.020000	347625	-0.7	20.0		
9.71	9.64	9.78	9459	473680	alpha-BHC	0.020000	472938	0.2	20.0		
10.62	10.55	10.69	9121	450035	gamma-BHC (Lindane)	0.020000	456065	-1.3	20.0		
10.86	10.79	10.93	3903	203322	beta-BHC	0.020000	195140	4.0	20.0		
11.56	11.49	11.63	7944	416372	delta-BHC	0.020000	397215	4.6	20.0		
11.69	11.62	11.76	9240	447981	Heptachlor	0.020000	461975	-3.1	20.0		
12.45	12.38	12.52	8455	415475	Aldrin	0.020000	422760	-1.8	20.0		
13.36			101								
13.77	13.70	13.84	8004	397168	Heptachlor Epoxide	0.020000	400207	-0.8	20.0		
14.20	14.13	14.27	7929	394802	gamma-Chlordane	0.020000	396425	-0.4	20.0		
14.52	14.45	14.59	6900	348692	alpha-Chlordane	0.020000	344998	1.1	20.0		
14.64	14.57	14.71	7367	375212	Endosulfan I	0.020000	368345	1.8	20.0		
14.91	14.84	14.98	14493	352110	4,4'-DDE	0.040000	362324	-2.9	20.0		
15.24	15.17	15.31	13962	348230	Dieldrin	0.040000	349046	-0.2	20.0		
15.90	15.83	15.97	13043	319049	Endrin	0.040000	326080	-2.2	20.0		
16.00			395								
16.16	16.09	16.23	10220	248368	4,4'-DDD	0.040000	255505	-2.9	20.0		
16.36	16.29	16.43	11971	304391	Endosulfan II	0.040000	299277	1.7	20.0		
16.82	16.75	16.89	11618	294834	4,4'-DDT	0.040000	290440	1.5	20.0		
17.09	17.02	17.16	9617	239136	Endrin Aldehyde	0.040000	240424	-0.5	20.0		
17.68	17.61	17.75	10800	267371	Endosulfan sulfate	0.040000	269996	-1.0	20.0		
18.28	18.21	18.35	26989	129586	Methoxychlor	0.200000	134946	-4.1	20.0		
18.63			97								
18.82	18.75	18.89	12276	304950	Endrin Ketone	0.040000	306911	-0.6	20.0		
21.48	21.41	21.55	12180	301734	Decachlorobiphenyl	0.040000	304510	-0.9	20.0		

AHW 5/26/10

Data File: /chem/tracegc84.i/h100524e_2C.b/067hSEQ-PEM3.d

Date : 26-MAY-2010 06:08

Client ID: PEMHL

Instrument: tracegc84.i

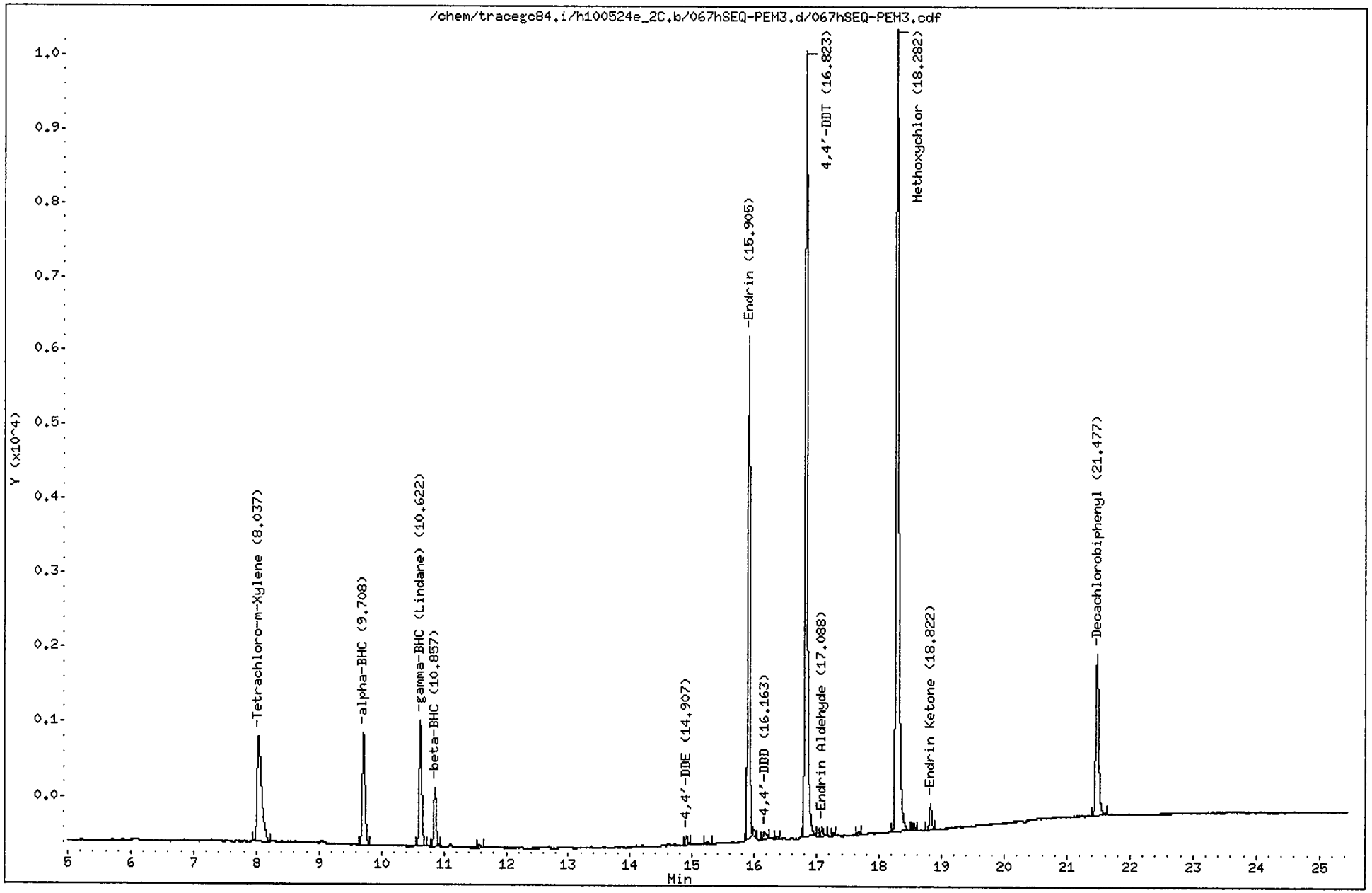
Sample Info: SEQ-PEM3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMHL
Sample Type : SAMPLE Sublist : PEM
Inj Date : 26-MAY-2010 06:08 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.40			101								
1.51			11555								
1.76			173								
1.93			182								
2.49			207								
8.04	7.97	8.11	7044	345165	Tetrachloro-m-xylene	0.020406	0.020406		103.1	30 - 150	
9.71	9.64	9.78	4796	473680	alpha-BHC	0.010125	0.010125	0.010000			J
10.62	10.55	10.69	4680	450035	gamma-BHC (Lindane)	0.010400	0.010400	0.010000			J
10.86	10.79	10.93	2129	203322	beta-BHC	0.010471	0.010471	0.010000			J
11.57			130								
14.91	14.84	14.98	287	352110	4,4'-DDE	0.000816	0.000816	0.020000			J
15.24			110								
15.90	15.83	15.97	16032	319049	Endrin	0.050248	0.050248	0.020000			
15.99			178								
16.16	16.09	16.23	324	248368	4,4'-DDD	0.001306	0.001306	0.020000			J
16.37			94								
16.82	16.75	16.89	27992	294834	4,4'-DDT	0.094941	0.094941	0.010000			
17.09	17.02	17.16	309	239136	Endrin aldehyde	0.001294	0.001294	0.020000			J
17.26			122								
17.68			113								
18.28	18.21	18.35	33570	129586	Methoxychlor	0.259055	0.259055	0.100000			
18.55			224								
18.82	18.75	18.89	869	304950	Endrin ketone	0.002849	0.002849	0.020000			J
21.48	21.41	21.55	6895	301734	Decachlorobiphenyl	0.022851	0.022851		57.7	30 - 150	

5/27/10
AHW

Data File: /chem/tracegc84.i/h100524f.b/080hSEQ-CCV5.d

Page 1

Date : 26-MAY-2010 12:25

Client ID: INDC3HN

Instrument: tracegc84.i

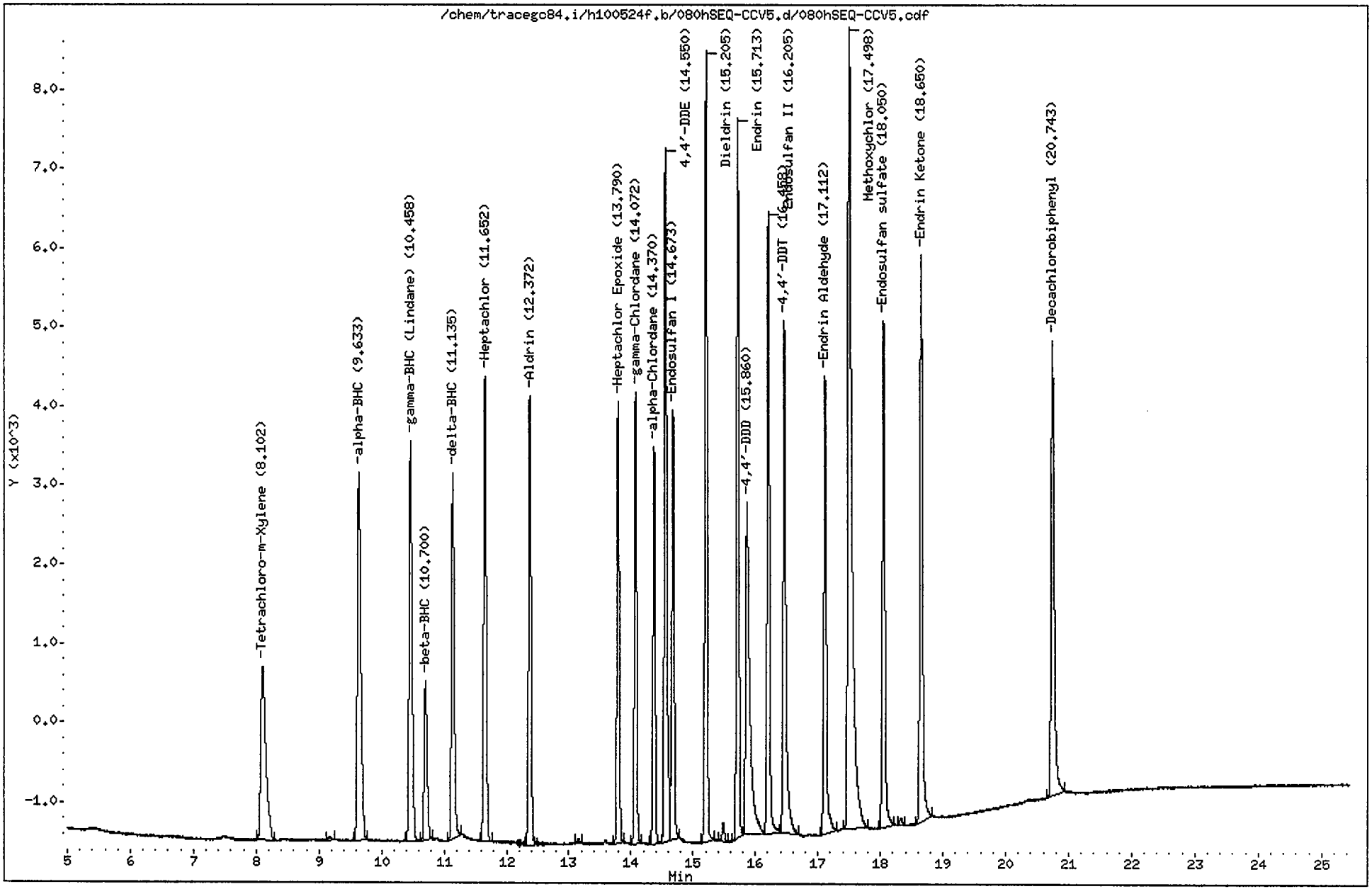
Sample Info: SEQ-CCV5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

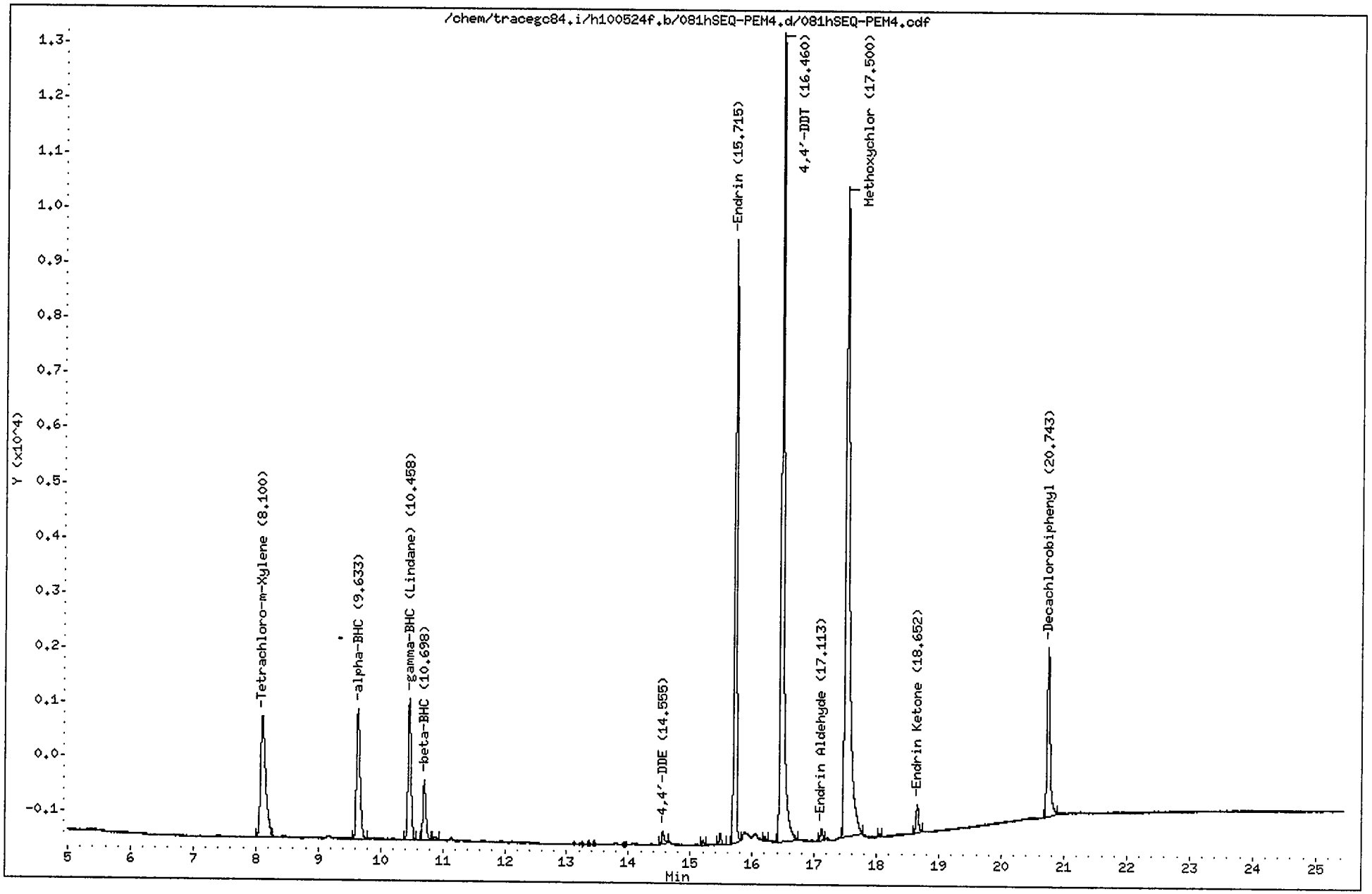
Lab Smp Id : SEQ-CCV5
Client Smp Id : INDC3HN
Sample Type : CONT CAL: Level 3
Sublist : INDA
Inj Date : 26-MAY-2010 12:25
Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524f.b/8081A_clpestv6.m
Misc. Info : INDC3HN

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.49			4041								
2.08			390								
2.55			321								
8.10	8.08	8.22	12230	539702	Tetrachloro-m-Xylene	0.020000	611477	-13.3	20.0		
9.17			163								
9.63	9.61	9.75	18006	802020	alpha-BHC	0.020000	900310	-12.3	20.0		
10.46	10.43	10.57	16947	758655	gamma-BHC (Lindane)	0.020000	847340	-11.7	20.0		
10.70	10.67	10.81	6495	318610	beta-BHC	0.020000	324730	-1.9	20.0		
11.14	11.11	11.25	14263	704062	delta-BHC	0.020000	713158	-1.3	20.0		
11.65	11.63	11.77	16948	750482	Heptachlor	0.020000	847392	-12.9	20.0		
12.37	12.35	12.49	15784	689285	Aldrin	0.020000	789200	-14.5	20.0		
13.16			137								
13.79	13.77	13.91	14273	642292	Heptachlor Epoxide	0.020000	713665	-11.1	20.0		
14.07	14.05	14.19	14226	652722	gamma-Chlordane	0.020000	711310	-9.0	20.0		
14.37	14.35	14.49	12482	564490	alpha-Chlordane	0.020000	624115	-10.6	20.0		
14.55	14.53	14.67	24455	569541	4,4'-DDE	0.040000	611376	-7.3	20.0		
14.67	14.65	14.79	14249	594888	Endosulfan I	0.020000	712443	-19.8	20.0		
15.20	15.19	15.33	25100	570655	Dieldrin	0.040000	627507	-10.0	20.0		
15.49			582								
15.71	15.69	15.83	22840	519295	Endrin	0.040000	570990	-10.0	20.0		
15.86	15.84	15.98	18881	417785	4,4'-DDD	0.040000	472023	-13.0	20.0		
16.20	16.19	16.33	20956	484260	Endosulfan II	0.040000	523890	-8.2	20.0		
16.46	16.44	16.58	20036	486148	4,4'-DDT	0.040000	500900	-3.0	20.0		
17.11	17.09	17.23	16378	367936	Endrin Aldehyde	0.040000	409447	-11.3	20.0		
17.50	17.47	17.61	44956	208219	Methoxychlor	0.200000	224778	-8.0	20.0		
18.05	18.03	18.17	17952	409905	Endosulfan sulfate	0.040000	448790	-9.5	20.0		
18.33			255								
18.65	18.63	18.77	20868	478826	Endrin Ketone	0.040000	521696	-9.0	20.0		
20.74	20.72	20.86	19251	444411	Decachlorobiphenyl	0.040000	481283	-8.3	20.0		

KEH 6/4/10

Data File: /chem/tracegc84.i/h100524f.b/081hSEQ-PEM4.d
Date : 26-MAY-2010 12:54
Client ID: PEMHN
Sample Info: SEQ-PEM4
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM4
Client Smp Id : PEMHN
Sample Type : SAMPLE
Sublist : PEM
Inj Date : 26-MAY-2010 12:54
Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524f.b/8081A_clpestv6.m
Misc. Info : PEMHN

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0
Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul)
Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.49			35785								
2.08			3877								
2.54			203								
8.10	8.08	8.22	12229	539702	Tetrachloro-m-xylene	0.022658	0.022658		114.4	30 - 150	
9.63	9.61	9.75	9217	802020	alpha-BHC	0.011492	0.011492	0.010000			
10.46	10.43	10.57	8722	758655	gamma-BHC (Lindane)	0.011496	0.011496	0.010000			
10.70	10.67	10.81	3541	318610	beta-BHC	0.011115	0.011115	0.010000			
10.88			187								
14.56	14.53	14.67	657	569541	4,4'-DDE	0.001154	0.001154	0.020000			J
15.21			194								
15.48			548								
15.72	15.69	15.83	27969	519295	Endrin	0.053860	0.053860	0.020000			
16.20			160								
16.46	16.44	16.58	47322	486148	4,4'-DDT	0.097340	0.097340	0.010000			
17.11	17.09	17.23	531	367936	Endrin aldehyde	0.001442	0.001442	0.020000			J
17.50	17.47	17.61	53542	208219	Methoxychlor	0.257140	0.257140	0.100000			
18.05			163								
18.65	18.63	18.77	1440	478826	Endrin ketone	0.003007	0.003007	0.020000			J
20.74	20.72	20.86	10322	444411	Decachlorobiphenyl	0.023227	0.023227		58.7	30 - 150	

KEH 6/4/10

Data File: /chem/tracegc84.i/h100524f_2C.b/080hSEQ-CCV5.d

Date : 26-MAY-2010 12:25

Client ID: INDC3HN

Sample Info: SEQ-CCV5

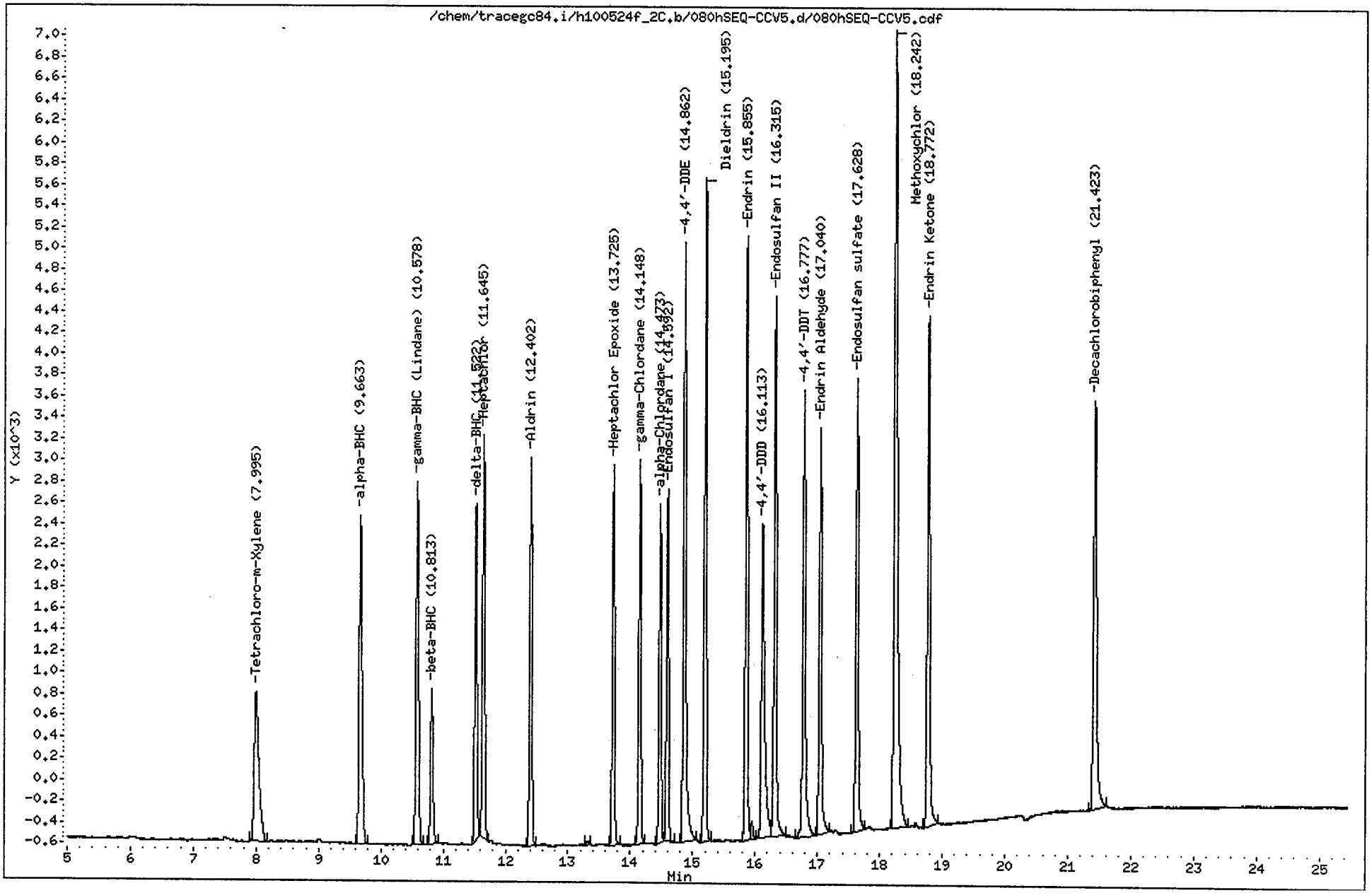
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

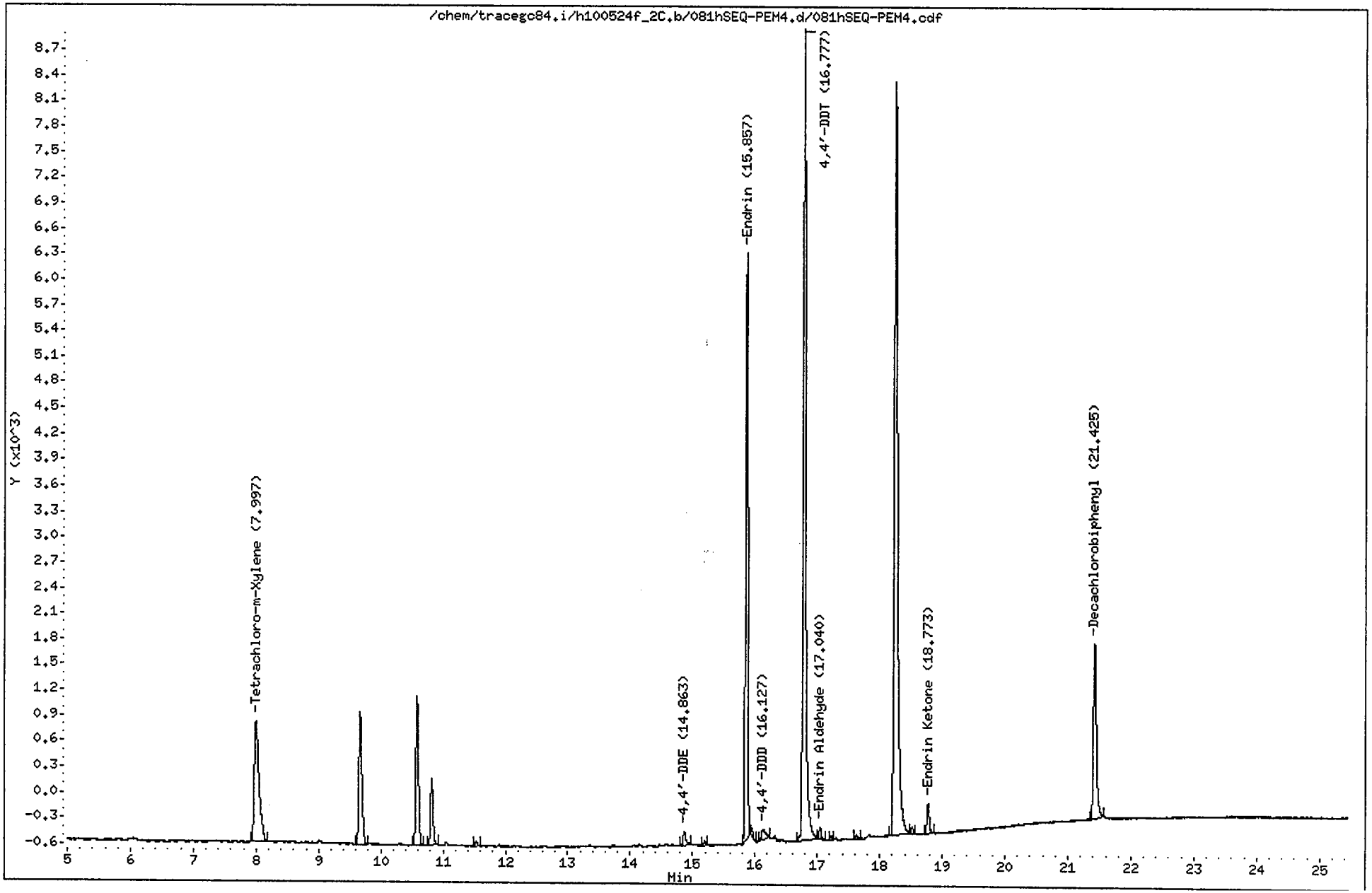
Lab Smp Id : SEQ-CCV5 Client Smp Id : INDC3HN
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 26-MAY-2010 12:25 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524f_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3HN

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.51			13349								
1.75			2472								
1.91			1042								
2.50			157								
8.00	7.97	8.11	7365	345165	Tetrachloro-m-Xylene	0.020000	368200	-6.7	20.0		
9.66	9.64	9.78	10068	473680	alpha-BHC	0.020000	503350	-6.3	20.0		
10.58	10.55	10.69	9678	450035	gamma-BHC (Lindane)	0.020000	483900	-7.5	20.0		
10.81	10.79	10.93	4050	203322	beta-BHC	0.020000	202500	0.4	20.0		
11.52	11.49	11.63	7969	416372	delta-BHC	0.020000	398450	4.3	20.0		
11.64	11.62	11.76	9797	447981	Heptachlor	0.020000	489800	-9.3	20.0		
12.40	12.38	12.52	9023	415475	Aldrin	0.020000	451100	-8.6	20.0		
13.31			95								
13.72	13.70	13.84	8517	397168	Heptachlor Epoxide	0.020000	425850	-7.2	20.0		
14.15	14.13	14.27	8483	394802	gamma-Chlordane	0.020000	424100	-7.4	20.0		
14.47	14.45	14.59	7345	348692	alpha-Chlordane	0.020000	367200	-5.3	20.0		
14.59	14.57	14.71	7855	375212	Endosulfan I	0.020000	392700	-4.7	20.0		
14.86	14.84	14.98	15608	352110	4,4'-DDE	0.040000	390200	-10.8	20.0		
15.20	15.17	15.31	14832	348230	Dieldrin	0.040000	370800	-6.5	20.0		
15.86	15.79	15.93	13793	319049	Endrin	0.040000	344829	-8.1	20.0		
15.95			431								
16.11	16.09	16.23	10735	248368	4,4'-DDD	0.040000	268375	-8.1	20.0		
16.32	16.29	16.43	13202	304391	Endosulfan II	0.040000	330050	-8.4	20.0		
16.78	16.75	16.89	12021	294834	4,4'-DDT	0.040000	300525	-1.9	20.0		
17.04	17.02	17.16	10097	239136	Endrin Aldehyde	0.040000	252425	-5.6	20.0		
17.63	17.61	17.75	11244	267371	Endosulfan sulfate	0.040000	281100	-5.1	20.0		
18.24	18.21	18.35	26455	129586	Methoxychlor	0.200000	132275	-2.1	20.0		
18.77	18.75	18.89	13084	304950	Endrin Ketone	0.040000	327100	-7.3	20.0		
21.42	21.41	21.55	12979	301734	Decachlorobiphenyl	0.040000	324450	-7.5	20.0		

AHW
5/27/10

Data File: /chem/tracegc84.i/h100524f_2C.b/081hSEQ-PEM4.d
Date : 26-MAY-2010 12:54
Client ID: PEMHN
Sample Info: SEQ-PEM4
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM4 Client Smp Id : PEMHN
Sample Type : SAMPLE Sublist : PEM
Inj Date : 26-MAY-2010 12:54 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524f_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHN

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

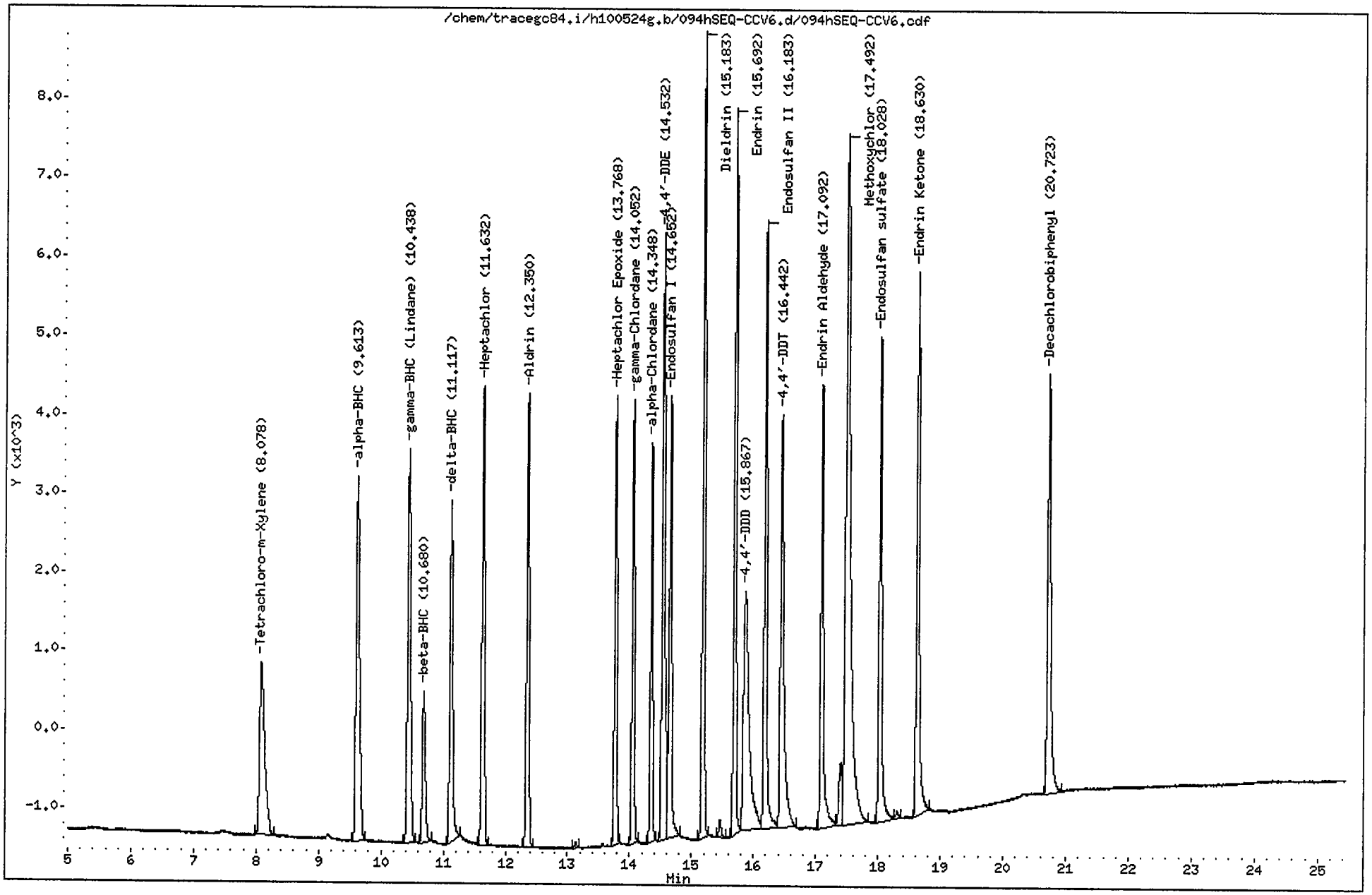
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.39			102								
1.50			10446								
1.91			161								
2.50			124								
8.00	7.97	8.11	7372	345165	Tetrachloro-m-Xylene	0.021358	0.021358		107.9	43 - 135	
9.66			5024								
10.58			4906								
10.81			2160								
11.53			146								
14.86	14.84	14.98	487	352110	4,4'-DDE	0.001384	0.001384	0.020000			J
15.20			121								
15.86	15.79	15.93	16470	319049	Endrin	0.051621	0.051621	0.020000			
15.95			201								
16.13	16.09	16.23	509	248368	4,4'-DDD	0.002050	0.002050	0.020000			J
16.78	16.75	16.89	27769	294834	4,4'-DDT	0.094186	0.094186	0.020000			
17.04	17.02	17.16	326	239136	Endrin Aldehyde	0.001363	0.001363	0.020000			J
17.22			103								
17.63			115								
18.24			31611								
18.52			195								
18.77	18.75	18.89	897	304950	Endrin Ketone	0.002942	0.002942	0.020000			J
21.42	21.41	21.55	6803	301734	Decachlorobiphenyl	0.022546	0.022546		56.9	43 - 144	

AHW
5/27/10

Data File: /chem/tracegc84.i/h100524g.b/094hSEQ-CCV6.d
Date : 26-MAY-2010 19:10
Client ID: INDC3HP
Sample Info: SEQ-CCV6
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

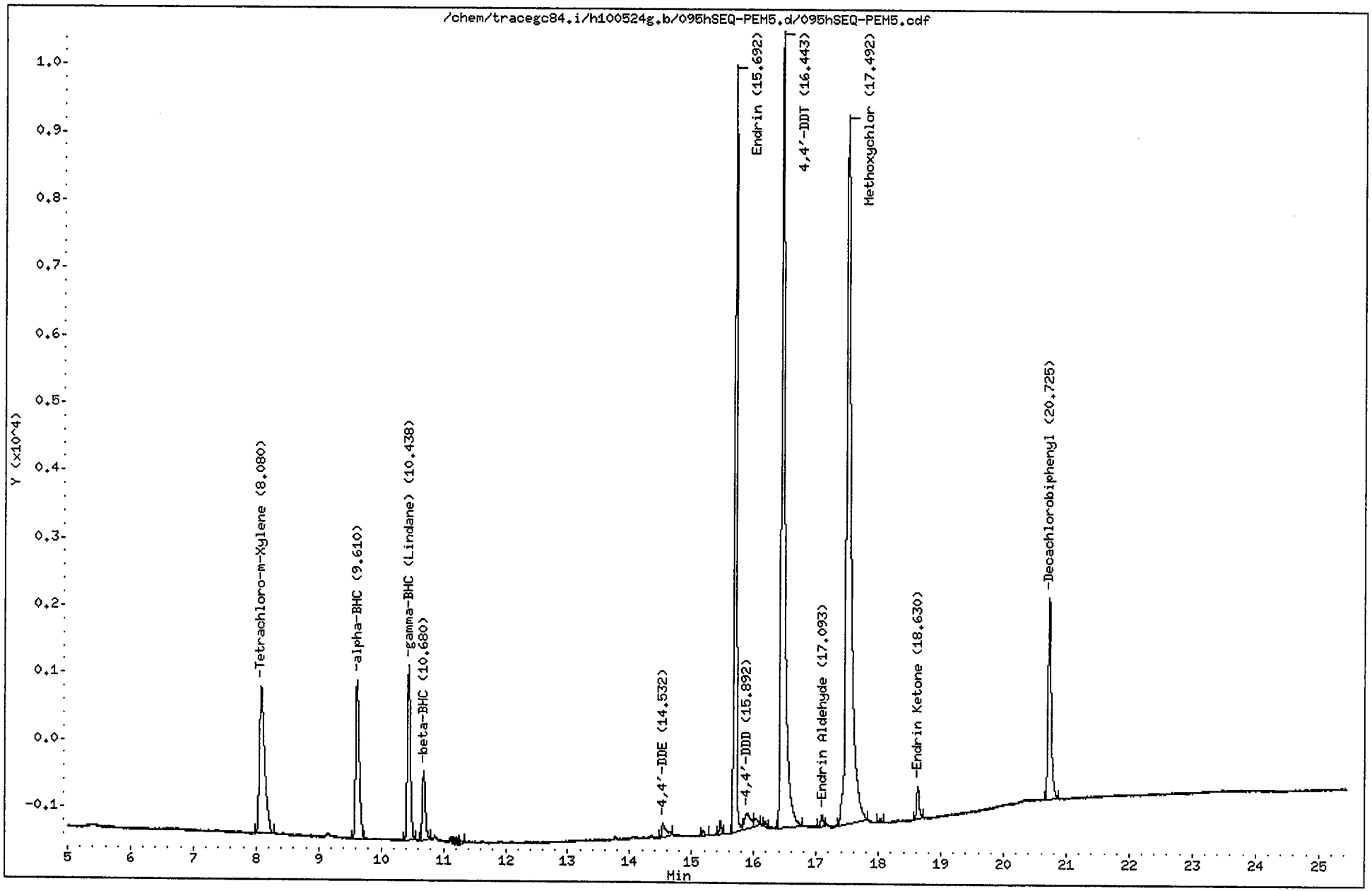
Lab Smp Id : SEQ-CCV6 Client Smp Id : INDC3HP
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 26-MAY-2010 19:10 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524g.b/8081A_clpestv6.m
Misc. Info : INDC3HP

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.47			5378								
1.49			29554								
2.07			229								
2.54			223								
8.08	8.08	8.22	12484	539702	Tetrachloro-m-Xylene	0.020000	624195	-15.7	20.0		
9.61	9.61	9.75	18172	802020	alpha-BHC	0.020000	908605	-13.3	20.0		
10.44	10.43	10.57	17007	758655	gamma-BHC (Lindane)	0.020000	850375	-12.1	20.0		
10.68	10.67	10.81	6356	318610	beta-BHC	0.020000	317785	0.3	20.0		
11.12	11.11	11.25	13901	704062	delta-BHC	0.020000	695057	1.3	20.0		
11.63	11.63	11.77	17214	750482	Heptachlor	0.020000	860695	-14.7	20.0		
12.35	12.35	12.49	15742	689285	Aldrin	0.020000	787123	-14.2	20.0		
13.13			180								
13.77	13.77	13.91	14357	642292	Heptachlor Epoxide	0.020000	717860	-11.8	20.0		
14.05	14.05	14.19	14339	652722	gamma-Chlordane	0.020000	716965	-9.8	20.0		
14.35	14.35	14.49	12491	564490	alpha-Chlordane	0.020000	624553	-10.6	20.0		
14.53	14.53	14.67	23697	569541	4,4'-DDE	0.040000	592416	-4.0	20.0	T	
14.65	14.65	14.79	16046	594888	Endosulfan I	0.020000	802278	-34.9*	20.0	R	
15.18	15.19	15.33	25193	570655	Dieldrin	0.040000	629831	-10.4	20.0	T	
15.46			601								
15.69	15.69	15.83	23309	519295	Endrin	0.040000	582735	-12.2	20.0		
15.87	15.84	15.98	19114	417785	4,4'-DDD	0.040000	477856	-14.4	20.0		
16.18	16.19	16.33	21560	484260	Endosulfan II	0.040000	538999	-11.3	20.0	T	
16.44	16.44	16.58	20147	486148	4,4'-DDT	0.040000	503663	-3.6	20.0		
17.09	17.09	17.23	16963	367936	Endrin Aldehyde	0.040000	424083	-15.3	20.0		
17.40			2849								
17.49	17.47	17.61	46084	208219	Methoxychlor	0.200000	230422	-10.7	20.0		
18.03	18.03	18.17	18405	409905	Endosulfan sulfate	0.040000	460126	-12.3	20.0		
18.31			262								
18.63	18.63	18.77	21013	478826	Endrin Ketone	0.040000	525333	-9.7	20.0		
20.72	20.72	20.86	18494	444411	Decachlorobiphenyl	0.040000	462347	-4.0	20.0		

KEH 6/4/10

Data File: /chem/tracegc84.i/h100524g.b/095hSEQ-PEM5.d
Date : 26-MAY-2010 19:39
Client ID: PEMHP
Sample Info: SEQ-PEM5
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM5 Client Smp Id : PEMHP
Sample Type : SAMPLE Sublist : PEM
Inj Date : 26-MAY-2010 19:39 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524g.b/8081A_clpestv6.m
Misc. Info : PEMHP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

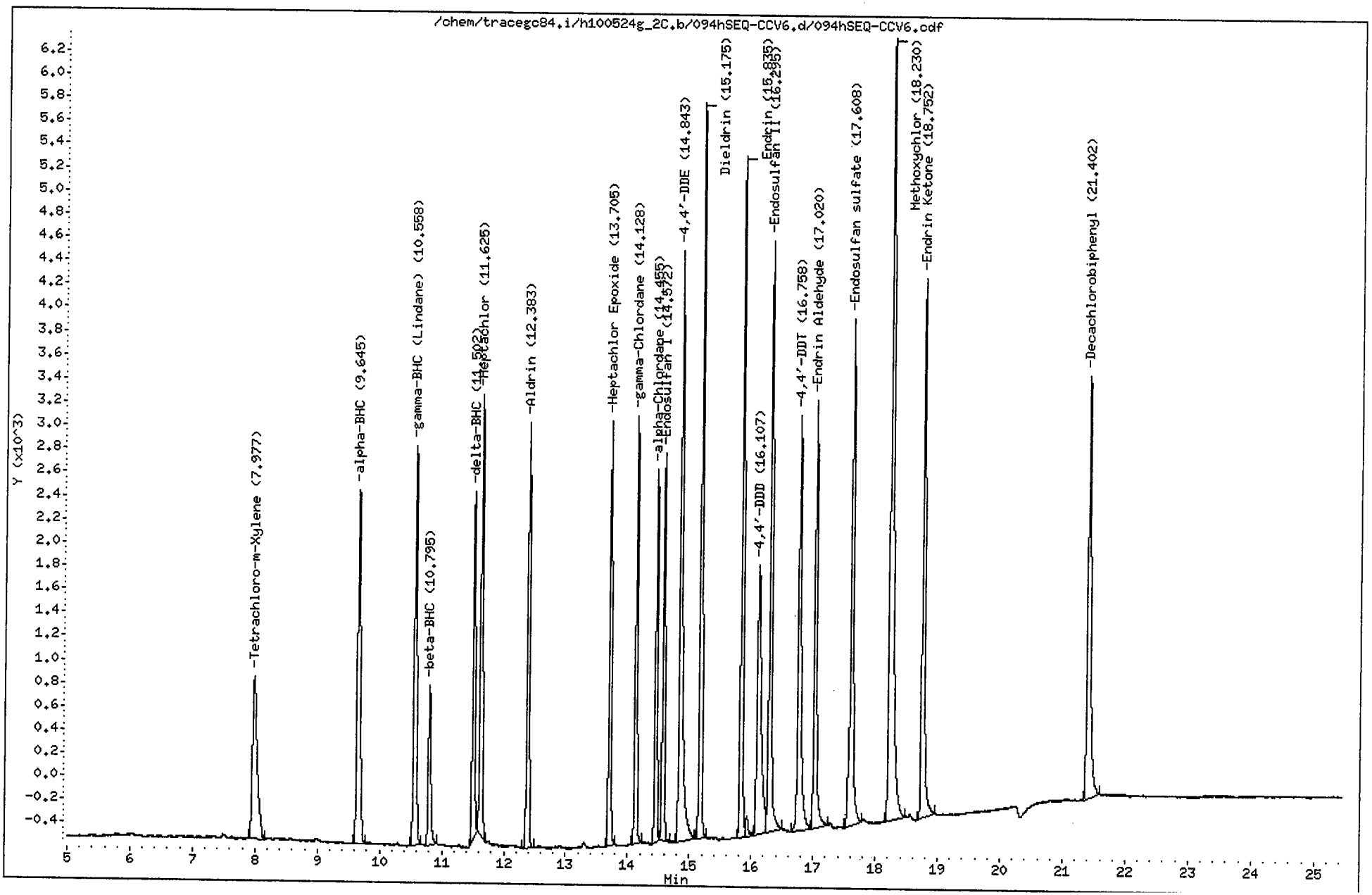
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.45			6068								
1.48			28788								
2.06			244								
2.53			290								
8.08	8.08	8.22	12483	539702	Tetrachloro-m-xylene	0.023129	0.023129		116.8	30 - 150	
9.61	9.61	9.75	9321	802020	alpha-BHC	0.011622	0.011622	0.010000			
10.44	10.43	10.57	8771	758655	gamma-BHC (Lindane)	0.011560	0.011560	0.010000			
10.68	10.67	10.81	3333	318610	beta-BHC	0.010461	0.010461	0.010000			J
11.27			136								
14.53	14.53	14.67	913	569541	4,4'-DDE	0.001603	0.001603	0.020000			TJ
15.18			213								
15.46			457								
15.69	15.69	15.83	28956	519295	Endrin	0.055761	0.055761	0.020000			
15.89	15.84	15.98	1426	417785	4,4'-DDD	0.003411	0.003411	0.020000			J
16.04			456								
16.18			177								
16.44	16.44	16.58	48626	486148	4,4'-DDT	0.100023	0.100023	0.010000			
17.09	17.09	17.23	473	367936	Endrin aldehyde	0.001283	0.001283	0.020000			J
17.49	17.47	17.61	57491	208219	Methoxychlor	0.276108	0.276108	0.100000			
18.04			174								
18.63	18.63	18.77	1415	478826	Endrin ketone	0.002956	0.002956	0.020000			J
20.72	20.72	20.86	10247	444411	Decachlorobiphenyl	0.023055	0.023055		58.2	30 - 150	

6/4/10

Data File: /chem/tracegc84.i/h100524g_2C.b/094hSEQ-CCV6.d
Date : 26-MAY-2010 19:10
Client ID: INDC3HP
Sample Info: SEQ-CCV6
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV6
Sample Type : CONT CAL: Level 3
Inj Date : 26-MAY-2010 19:10
Operator : AHW
Method : /chem/tracegc84.i/h100524g_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3HP

Client Smp Id : INDC3HP
Sublist : INDA
Inst ID : TRACEGC84

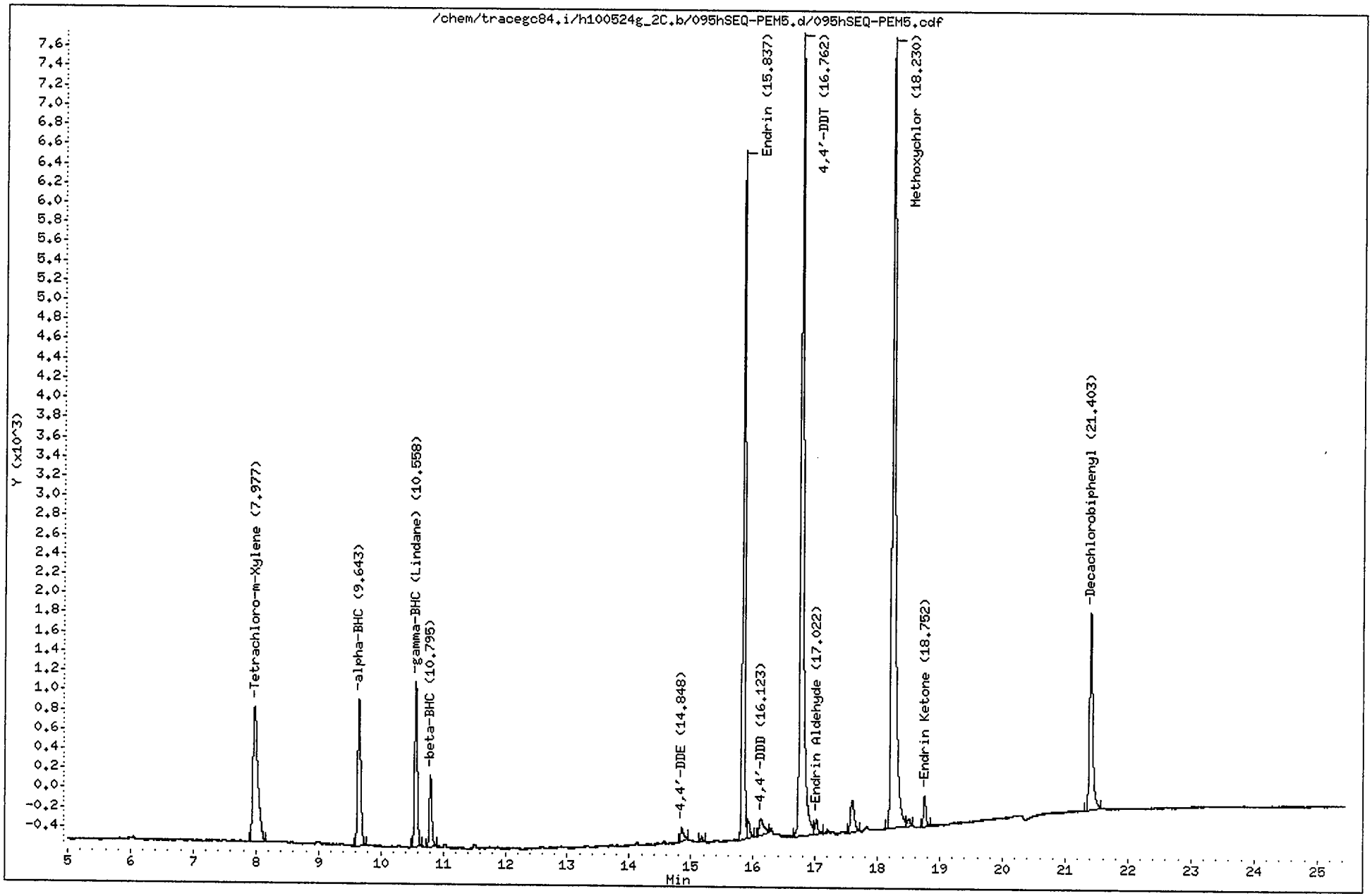
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.38			115								
1.49			2207								
1.89			285								
2.50			134								
7.98	7.97	8.11	7472	345165	Tetrachloro-m-Xylene	0.020000	373600	-8.2	20.0		
9.64	9.64	9.78	10172	473680	alpha-BHC	0.020000	508603	-7.4	20.0		
10.56	10.55	10.69	9763	450035	gamma-BHC (Lindane)	0.020000	488127	-8.5	20.0		
10.80	10.79	10.93	3987	203322	beta-BHC	0.020000	199357	1.9	20.0		
11.50	11.43	11.57	7477	416372	delta-BHC	0.020000	373832	10.2	20.0		
11.62	11.62	11.76	9874	447981	Heptachlor	0.020000	493713	-10.2	20.0		
12.38	12.38	12.52	9131	415475	Aldrin	0.020000	456573	-9.9	20.0		
13.70	13.70	13.84	8590	397168	Heptachlor Epoxide	0.020000	429520	-8.1	20.0		
14.13	14.13	14.27	8555	394802	gamma-Chlordane	0.020000	427725	-8.3	20.0		
14.46	14.45	14.59	7392	348692	alpha-Chlordane	0.020000	369595	-6.0	20.0		
14.57	14.57	14.71	7921	375212	Endosulfan I	0.020000	396050	-5.6	20.0		
14.84	14.84	14.98	15960	352110	4,4'-DDE	0.040000	399003	-13.3	20.0		
15.18	15.17	15.31	14947	348230	Dieldrin	0.040000	373684	-7.3	20.0		
15.84	15.79	15.93	13954	319049	Endrin	0.040000	348852	-9.3	20.0		
15.93			552								
16.11	16.09	16.23	10595	248368	4,4'-DDD	0.040000	264864	-6.6	20.0		
16.30	16.29	16.43	13623	304391	Endosulfan II	0.040000	340586	-11.9	20.0		
16.76	16.75	16.89	11906	294834	4,4'-DDT	0.040000	297649	-1.0	20.0		
17.02	17.02	17.16	10097	239136	Endrin Aldehyde	0.040000	252432	-5.6	20.0		
17.61	17.61	17.75	13270	267371	Endosulfan sulfate	0.040000	331754	-24.1*	20.0	R	
18.23	18.21	18.35	26009	129586	Methoxychlor	0.200000	130044	-0.4	20.0		
18.75	18.75	18.89	13189	304950	Endrin Ketone	0.040000	329736	-8.1	20.0		
21.40	21.41	21.55	12957	301734	Decachlorobiphenyl	0.040000	323933	-7.4	20.0	T	

KEH 6/4/10

Data File: /chem/tracegc84.i/h100524g_2C.b/095hSEQ-PEM5.d
Date : 26-MAY-2010 19:39
Client ID: PEMHP
Sample Info: SEQ-PEM5
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM5 Client Smp Id : PEMHP
Sample Type : SAMPLE Sublist : PEM
Inj Date : 26-MAY-2010 19:39 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524g_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.38			94								
1.44			2843								
1.50			10347								
1.75			1902								
1.89			470								
7.98	7.97	8.11	7476	345165	Tetrachloro-m-xylene	0.021656	0.021656		109.4	30 - 150	
9.64	9.64	9.78	5101	473680	alpha-BHC	0.010769	0.010769	0.010000			
10.56	10.55	10.69	4925	450035	gamma-BHC (Lindane)	0.010944	0.010944	0.010000			
10.80	10.79	10.93	2088	203322	beta-BHC	0.010264	0.010264	0.010000			J
14.85	14.84	14.98	457	352110	4,4'-DDE	0.001295	0.001295	0.020000			J
15.17			124								
15.84	15.79	15.93	17223	319049	Endrin	0.053982	0.053982	0.020000			
15.93			520								
16.12	16.09	16.23	887	248368	4,4'-DDD	0.003567	0.003567	0.020000			J
16.76	16.75	16.89	28586	294834	4,4'-DDT	0.096956	0.096956	0.010000			
17.02	17.02	17.16	494	239136	Endrin aldehyde	0.002066	0.002066	0.020000			J
17.59			1420								
18.23	18.21	18.35	32109	129586	Methoxychlor	0.247773	0.247773	0.100000			
18.50			269								
18.75	18.75	18.89	867	304950	Endrin ketone	0.002840	0.002840	0.020000			J
21.40	21.41	21.55	7177	301734	Decachlorobiphenyl	0.023785	0.023785		60.1	30 - 150	T

KEH 6/4/10

Data File: /chem/tracegc84.i/j100528.b/003j0E27012-PEM1.d

Date : 28-MAY-2010 17:49

Client ID: PEMHA

Instrument: tracegc84.i

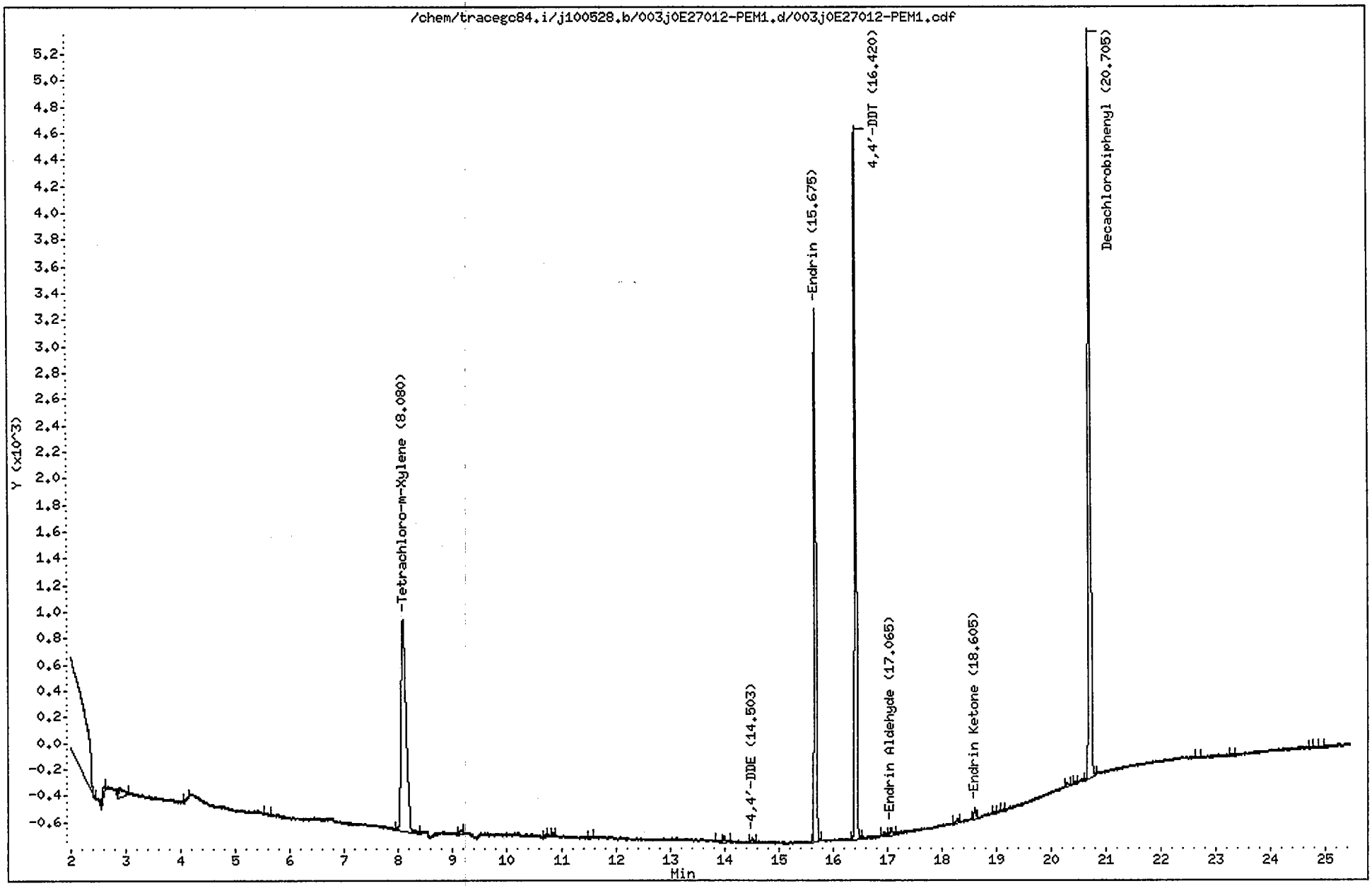
Sample Info: 0E27012-PEM1

Volume Injected (uL): 1.0

Operator: System

Column phase: olpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-PEM1 Client Smp Id : PEMHA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 28-MAY-2010 17:49 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : PEMHA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

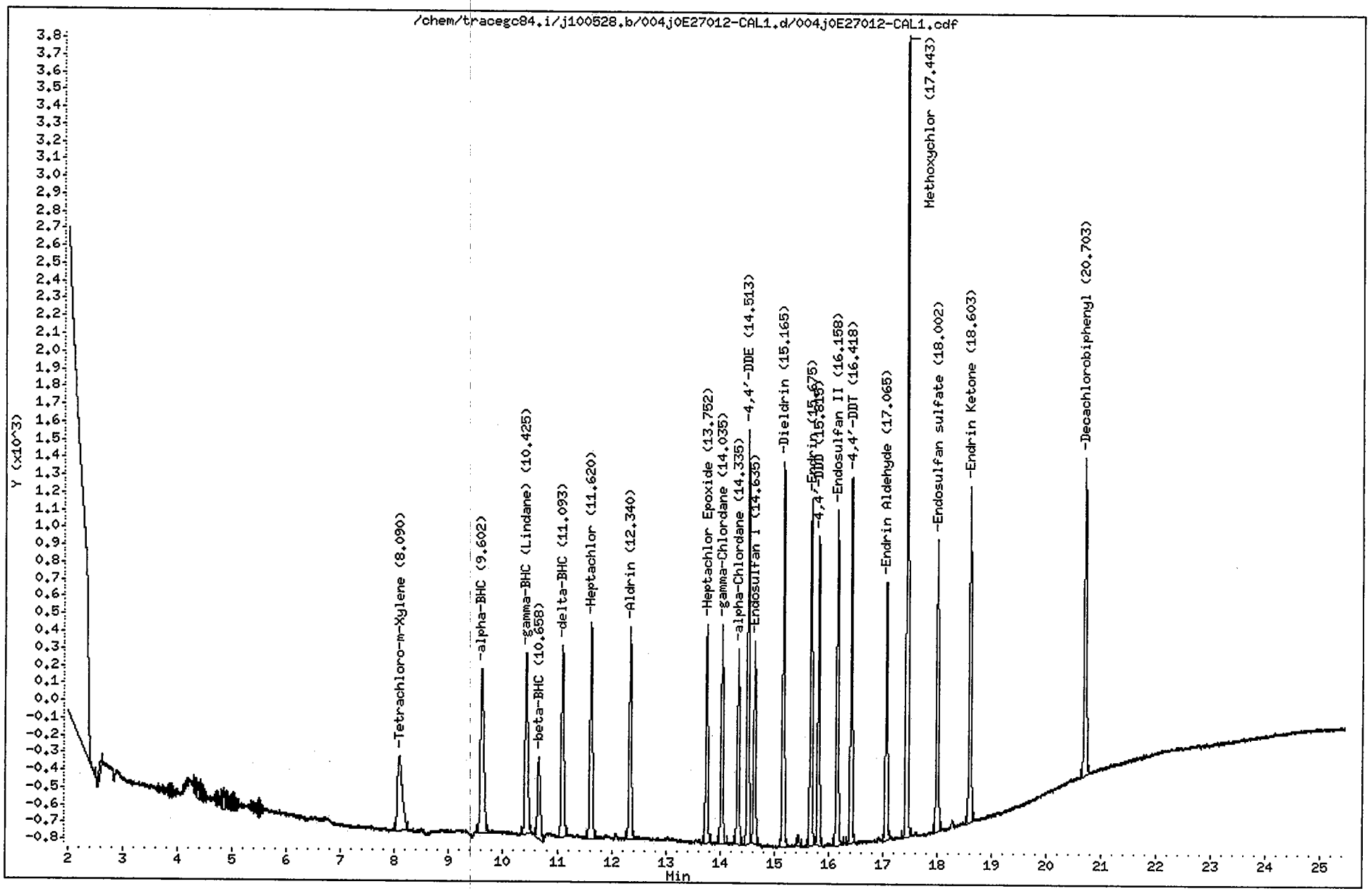
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.11			65								
0.33			59								
1.05			137								
1.31			67								
1.36			100								
1.55			63736								
2.60			274								
2.90			403								
4.13			50								
5.53			93								
8.08	8.01	8.15	10252	522758	Tetrachloro-m-Xylene	0.019611	0.019611		99.0	43 - 135	
9.13			89								
10.70			75								
10.85			89								
11.50			43								
13.86			56								
13.99			161								
14.50	14.45	14.59	135	523741	4,4'-DDE	0.000257	0.000257	0.020000			J
15.68	15.61	15.75	10368	463071	Endrin	0.022390	0.022390	0.020000			
16.42	16.35	16.49	13272	454781	4,4'-DDT	0.029183	0.029183	0.020000			
16.94			119								
17.06	17.00	17.14	184	348470	Endrin Aldehyde	0.000528	0.000528	0.020000			J
18.28			112								
18.60	18.53	18.67	230	457258	Endrin Ketone	0.000504	0.000504	0.020000			J
18.97			61								
19.13			49								
20.30			63								
20.46			58								
20.70	20.63	20.77	15710	408350	Decachlorobiphenyl	0.038473	0.038473		97.2	43 - 144	
22.67			44								
23.25			56								
24.69			43								
24.89			42								

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/004j0E27012-CAL1.d
Date : 28-MAY-2010 18:18
Client ID: INDC1HA
Sample Info: 0E27012-CAL1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL1 Client Smp Id : INDC1HA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 28-MAY-2010 18:18 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC1HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.57			247819					
2.59			171					
4.35			169					
4.84			233					
4.99			134					
8.09	8.01	8.15	2689	522758	Tetrachloro-m-Xylene	0.005000	537800	
9.60	9.53	9.67	3994	775960	alpha-BHC	0.005000	798600	
10.42	10.36	10.50	3775	729192	gamma-BHC (Lindane)	0.005000	754800	
10.66	10.59	10.73	1672	300532	beta-BHC	0.005000	334400	
11.09	11.02	11.16	3527	689518	delta-BHC	0.005000	705200	
11.62	11.55	11.69	3800	695465	Heptachlor	0.005000	759800	
12.34	12.27	12.41	3446	636570	Aldrin	0.005000	689000	
13.75	13.68	13.82	3254	593700	Heptachlor Epoxide	0.005000	650600	
14.04	13.97	14.11	3261	594875	gamma-Chlordane	0.005000	652000	
14.34	14.27	14.41	2846	516712	alpha-Chlordane	0.005000	569000	
14.51	14.45	14.59	5739	523741	4,4'-DDE	0.010000	573800	
14.64	14.57	14.71	2972	548162	Endosulfan I	0.005000	594200	
15.16	15.10	15.24	5623	515556	Dieldrin	0.010000	562300	
15.44			156					
15.68	15.61	15.75	5113	463071	Endrin	0.010000	511200	
15.82	15.74	15.88	4223	393458	4,4'-DDD	0.010000	422300	
16.16	16.09	16.23	4967	450326	Endosulfan II	0.010000	496600	
16.42	16.35	16.49	5039	454781	4,4'-DDT	0.010000	503900	
17.06	17.00	17.14	3776	348470	Endrin Aldehyde	0.010000	377500	
17.44	17.37	17.51	11132	194359	Methoxychlor	0.050000	222640	
18.00	17.93	18.07	4327	392055	Endosulfan sulfate	0.010000	432700	
18.60	18.53	18.67	4972	457258	Endrin Ketone	0.010000	497200	
20.70	20.63	20.77	4821	408350	Decachlorobiphenyl	0.010000	482100	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/005j0E27012-CAL2.d

Date : 28-MAY-2010 18:47

Client ID: INDC2HA

Instrument: tracegc84.i

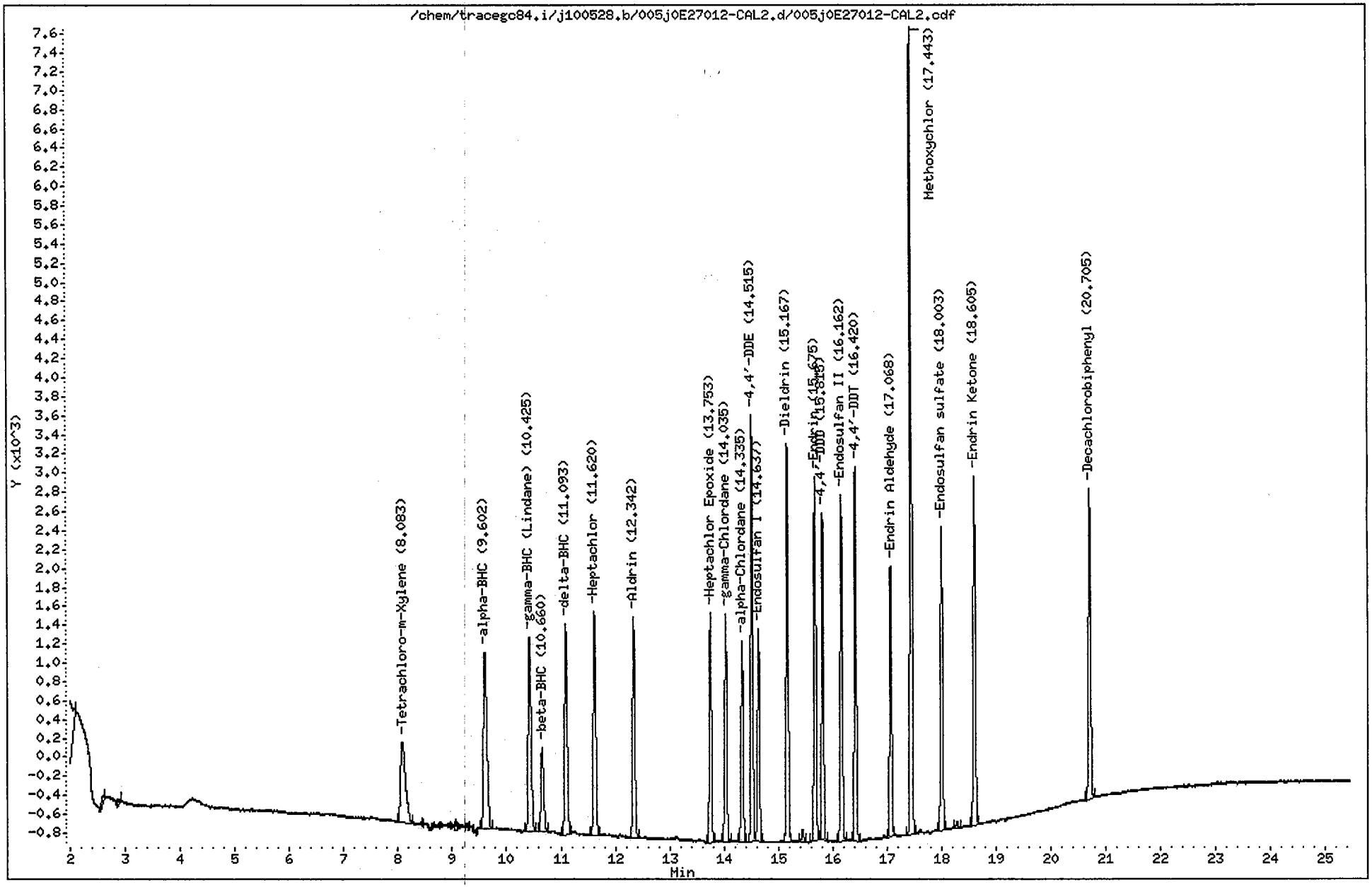
Sample Info: 0E27012-CAL2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL2 Client Smp Id : INDC2HA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 28-MAY-2010 18:47 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC2HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.81			199					
0.93			168					
1.03			181					
1.44			179					
1.55			31882					
2.60			253					
2.87			126					
8.08	8.01	8.15	5457	522758	Tetrachloro-m-Xylene	0.010000	545600	
9.06			157					
9.60	9.53	9.67	7926	775960	alpha-BHC	0.010000	792600	
10.42	10.36	10.50	7455	729192	gamma-BHC (Lindane)	0.010000	745400	
10.66	10.59	10.73	2974	300532	beta-BHC	0.010000	297400	
11.09	11.02	11.16	7074	689518	delta-BHC	0.010000	707400	
11.62	11.55	11.69	7311	695465	Heptachlor	0.010000	731000	
12.34	12.27	12.41	6679	636570	Aldrin	0.010000	667800	
13.75	13.68	13.82	6330	593700	Heptachlor Epoxide	0.010000	633000	
14.04	13.97	14.11	6341	594875	gamma-Chlordane	0.010000	634000	
14.34	14.27	14.41	5427	516712	alpha-Chlordane	0.010000	542600	
14.52	14.45	14.59	10936	523741	4,4'-DDE	0.020000	546750	
14.64	14.57	14.71	5709	548162	Endosulfan I	0.010000	570900	
15.17	15.10	15.24	10763	515556	Dieldrin	0.020000	538100	
15.45			319					
15.68	15.61	15.75	9723	463071	Endrin	0.020000	486100	
15.82	15.74	15.88	8211	393458	4,4'-DDD	0.020000	410500	
16.16	16.09	16.23	9399	450326	Endosulfan II	0.020000	469900	
16.42	16.35	16.49	9582	454781	4,4'-DDT	0.020000	479100	
17.07	17.00	17.14	7281	348470	Endrin Aldehyde	0.020000	364050	
17.44	17.37	17.51	20823	194359	Methoxychlor	0.100000	208230	
18.00	17.93	18.07	8331	392055	Endosulfan sulfate	0.020000	416550	
18.29			176					
18.60	18.53	18.67	9658	457258	Endrin Ketone	0.020000	482900	
20.70	20.63	20.77	8934	408350	Decachlorobiphenyl	0.020000	446650	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/006j0E27012-CAL3.d

Page 1

Date : 28-MAY-2010 19:16

Client ID: INDC3HA

Instrument: tracegc84.i

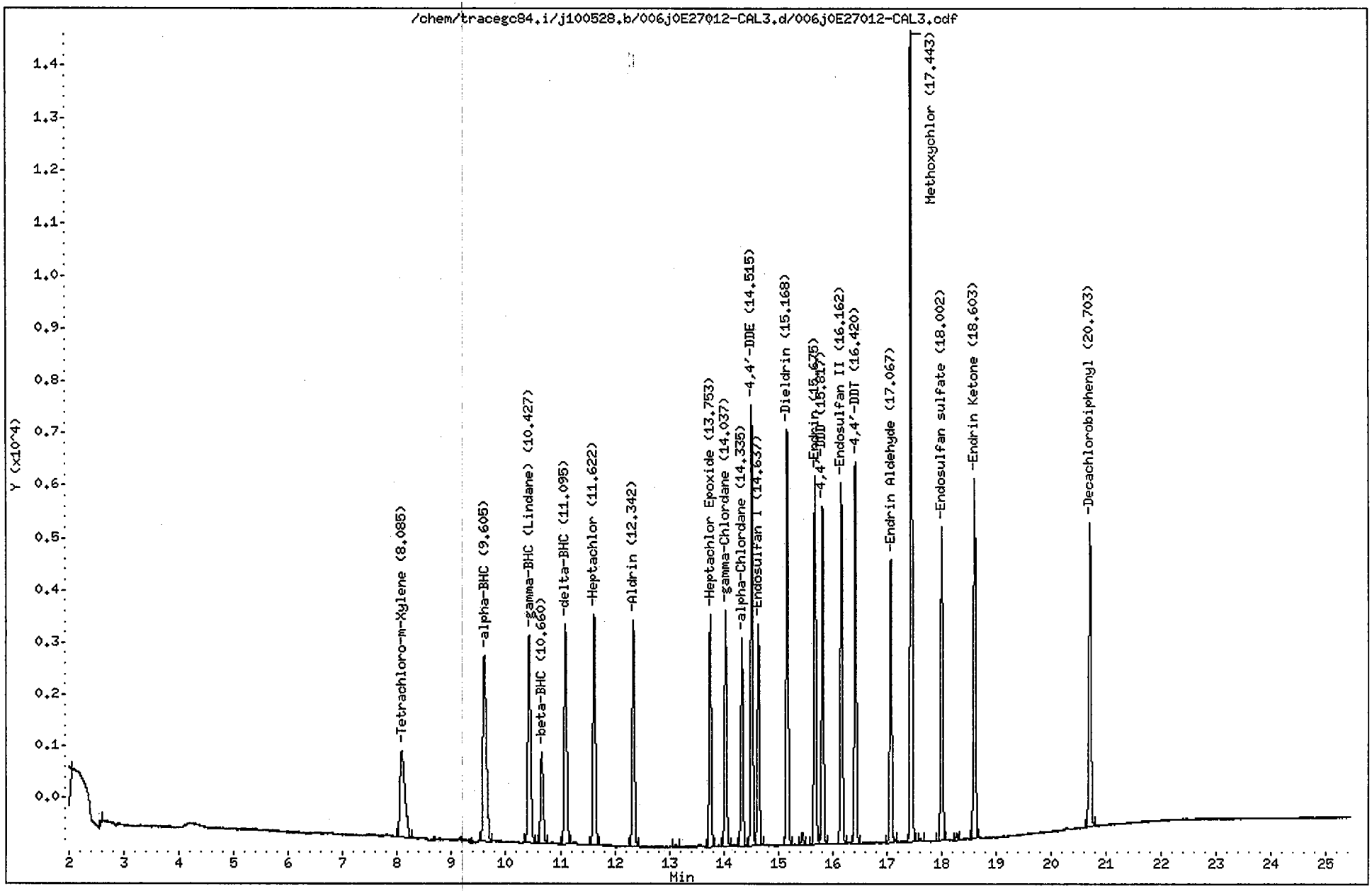
Sample Info: 0E27012-CAL3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL3 Client Smp Id : INDC3HA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 28-MAY-2010 19:16 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC3HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56			33990					
2.59			125					
8.08	8.01	8.15	10365	522758	Tetrachloro-m-Xylene	0.020000	518200	
9.60	9.53	9.67	15388	775960	alpha-BHC	0.020000	769400	
10.43	10.36	10.50	14446	729192	gamma-BHC (Lindane)	0.020000	722300	
10.66	10.59	10.73	5933	300532	beta-BHC	0.020000	296600	
11.10	11.02	11.16	13673	689518	delta-BHC	0.020000	683650	
11.62	11.55	11.69	13777	695465	Heptachlor	0.020000	688850	
12.34	12.27	12.41	12658	636570	Aldrin	0.020000	632900	
13.12			154					
13.75	13.68	13.82	11837	593700	Heptachlor Epoxide	0.020000	591800	
14.04	13.97	14.11	11766	594875	gamma-Chlordane	0.020000	588300	
14.34	14.27	14.41	10311	516712	alpha-Chlordane	0.020000	515550	
14.52	14.45	14.59	20700	523741	4,4'-DDE	0.040000	517475	
14.64	14.57	14.71	11116	548162	Endosulfan I	0.020000	555750	
15.17	15.10	15.24	20326	515556	Dieldrin	0.040000	508150	
15.45			603					
15.68	15.61	15.75	18450	463071	Endrin	0.040000	461225	
15.82	15.74	15.88	15762	393458	4,4'-DDD	0.040000	394025	
16.16	16.09	16.23	17852	450326	Endosulfan II	0.040000	446300	
16.42	16.35	16.49	17876	454781	4,4'-DDT	0.040000	446900	
17.07	17.00	17.14	14218	348470	Endrin Aldehyde	0.040000	355425	
17.44	17.37	17.51	38110	194359	Methoxychlor	0.200000	190545	
17.62			164					
18.00	17.93	18.07	15567	392055	Endosulfan sulfate	0.040000	389175	
18.29			330					
18.60	18.53	18.67	18130	457258	Endrin Ketone	0.040000	453250	
20.70	20.63	20.77	16121	408350	Decachlorobiphenyl	0.040000	403000	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/007j0E27012-CAL4.d

Page 1

Date : 28-MAY-2010 19:45

Client ID: INDC4HA

Instrument: tracegc84.i

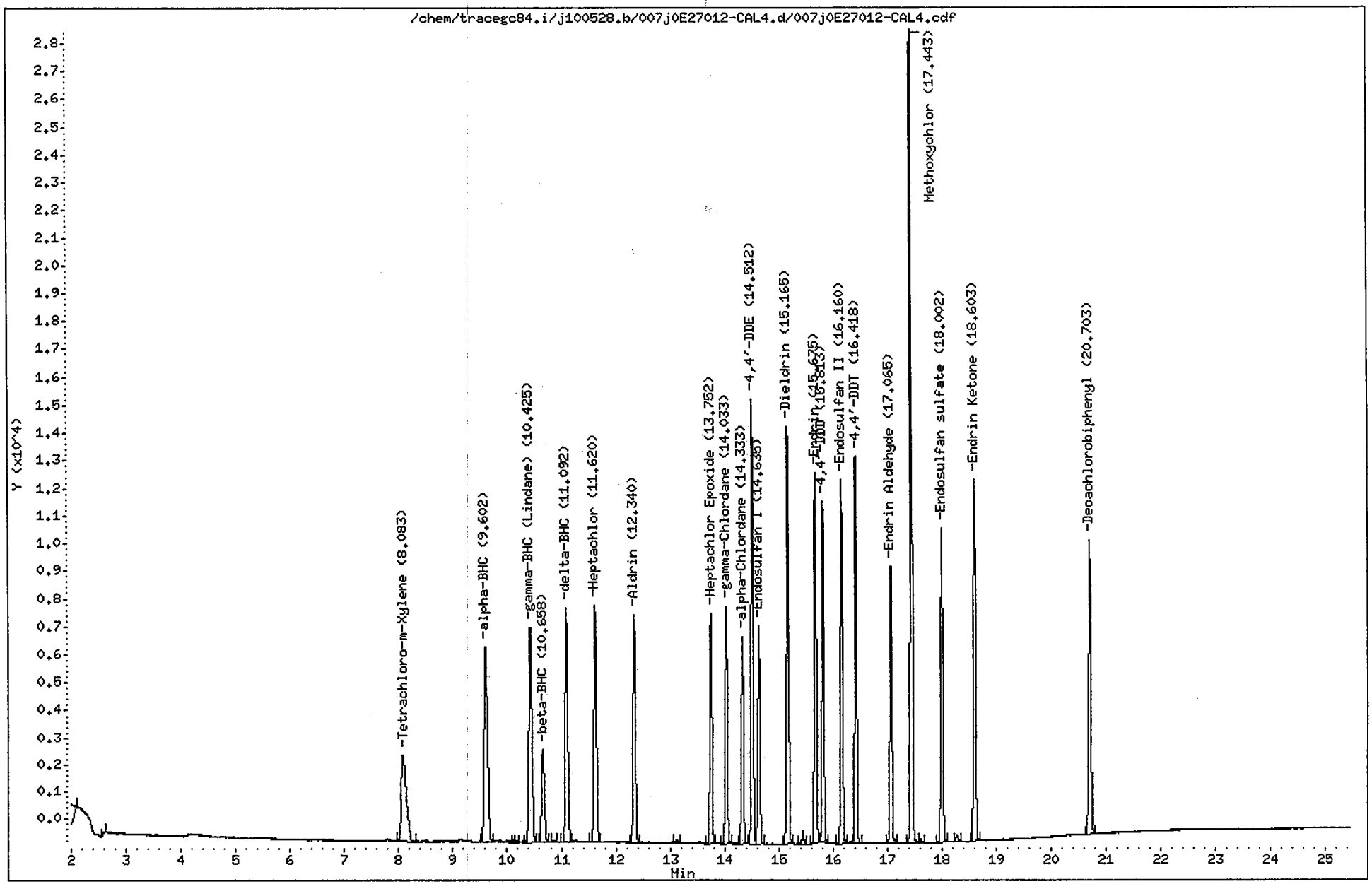
Sample Info: 0E27012-CAL4

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL4 Client Smp Id : INDC4HA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 28-MAY-2010 19:45 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC4HA

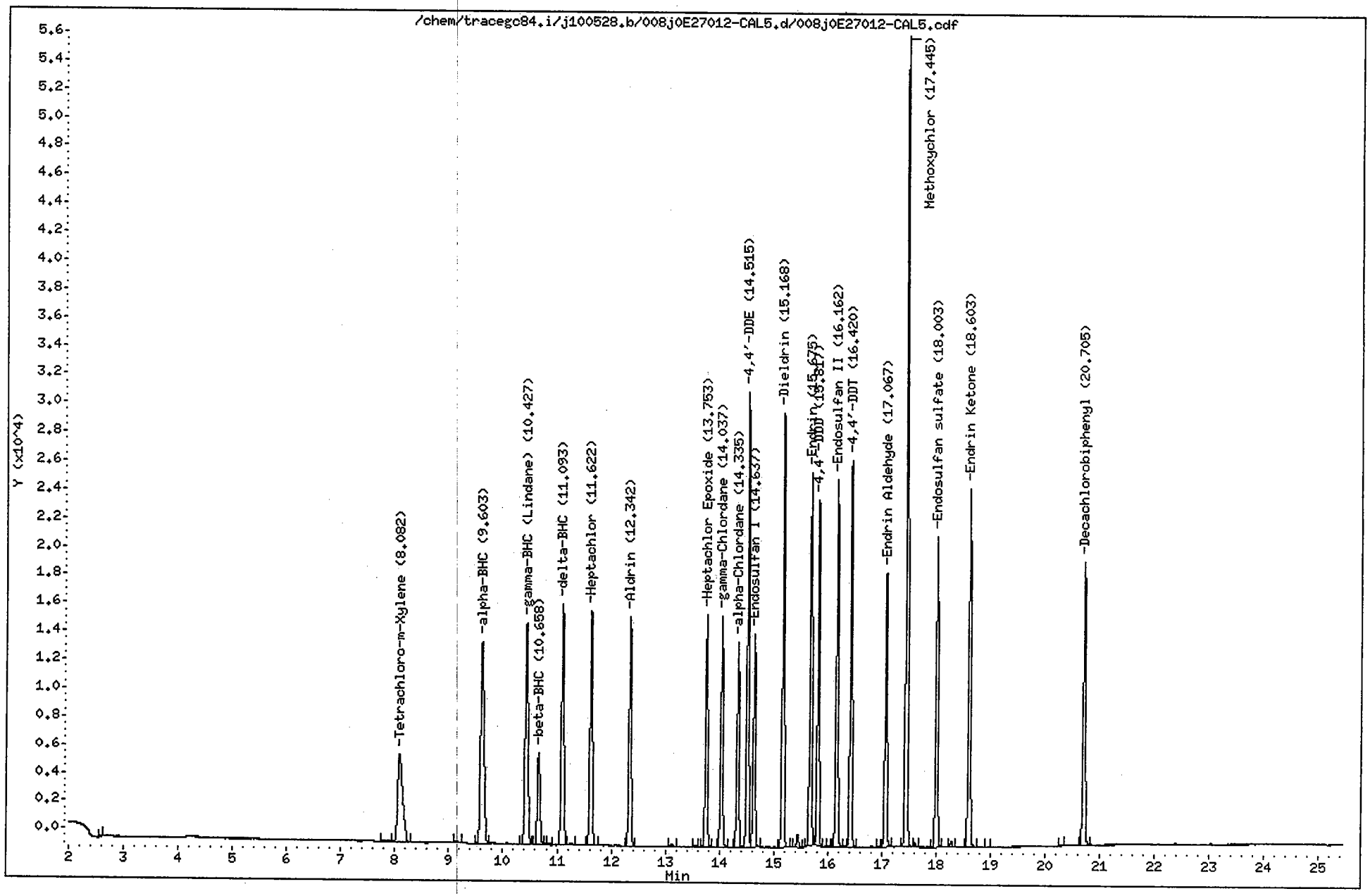
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			32197					
2.61			220					
8.08	8.01	8.15	20531	522758	Tetrachloro-m-Xylene	0.040000	513275	
9.60	9.53	9.67	30485	775960	alpha-BHC	0.040000	762100	
10.11			174					
10.15			201					
10.34			121					
10.42	10.36	10.50	28750	729192	gamma-BHC (Lindane)	0.040000	718750	
10.66	10.59	10.73	11645	300532	beta-BHC	0.040000	291100	
10.85			124					
11.09	11.02	11.16	27123	689518	delta-BHC	0.040000	678075	
11.62	11.55	11.69	26443	695465	Heptachlor	0.040000	661075	
12.34	12.27	12.41	24318	636570	Aldrin	0.040000	607950	
13.12			296					
13.75	13.68	13.82	22398	593700	Heptachlor Epoxide	0.040000	559950	
14.03	13.97	14.11	22447	594875	gamma-Chlordane	0.040000	561150	
14.33	14.27	14.41	19587	516712	alpha-Chlordane	0.040000	489675	
14.51	14.45	14.59	39739	523741	4,4'-DDE	0.080000	496737	
14.64	14.57	14.71	20858	548162	Endosulfan I	0.040000	521425	
15.16	15.10	15.24	39182	515556	Dieldrin	0.080000	489763	
15.45			1192					
15.68	15.61	15.75	34803	463071	Endrin	0.080000	435025	
15.81	15.74	15.88	29940	393458	4,4'-DDD	0.080000	374237	
16.16	16.09	16.23	34119	450326	Endosulfan II	0.080000	426475	
16.32			140					
16.42	16.35	16.49	34226	454781	4,4'-DDT	0.080000	427813	
17.06	17.00	17.14	26427	348470	Endrin Aldehyde	0.080000	330325	
17.44	17.37	17.51	71762	194359	Methoxychlor	0.400000	179403	
17.62			370					
18.00	17.93	18.07	29487	392055	Endosulfan sulfate	0.080000	368575	
18.28			669					
18.60	18.53	18.67	34688	457258	Endrin Ketone	0.080000	433600	
20.70	20.63	20.77	29546	408350	Decachlorobiphenyl	0.080000	369313	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/008j0E27012-CAL5.d
Date : 28-MAY-2010 20:14
Client ID: INDC5HA
Sample Info: 0E27012-CAL5
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL5 Client Smp Id : INDC5HA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 28-MAY-2010 20:14 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : INDC5HA

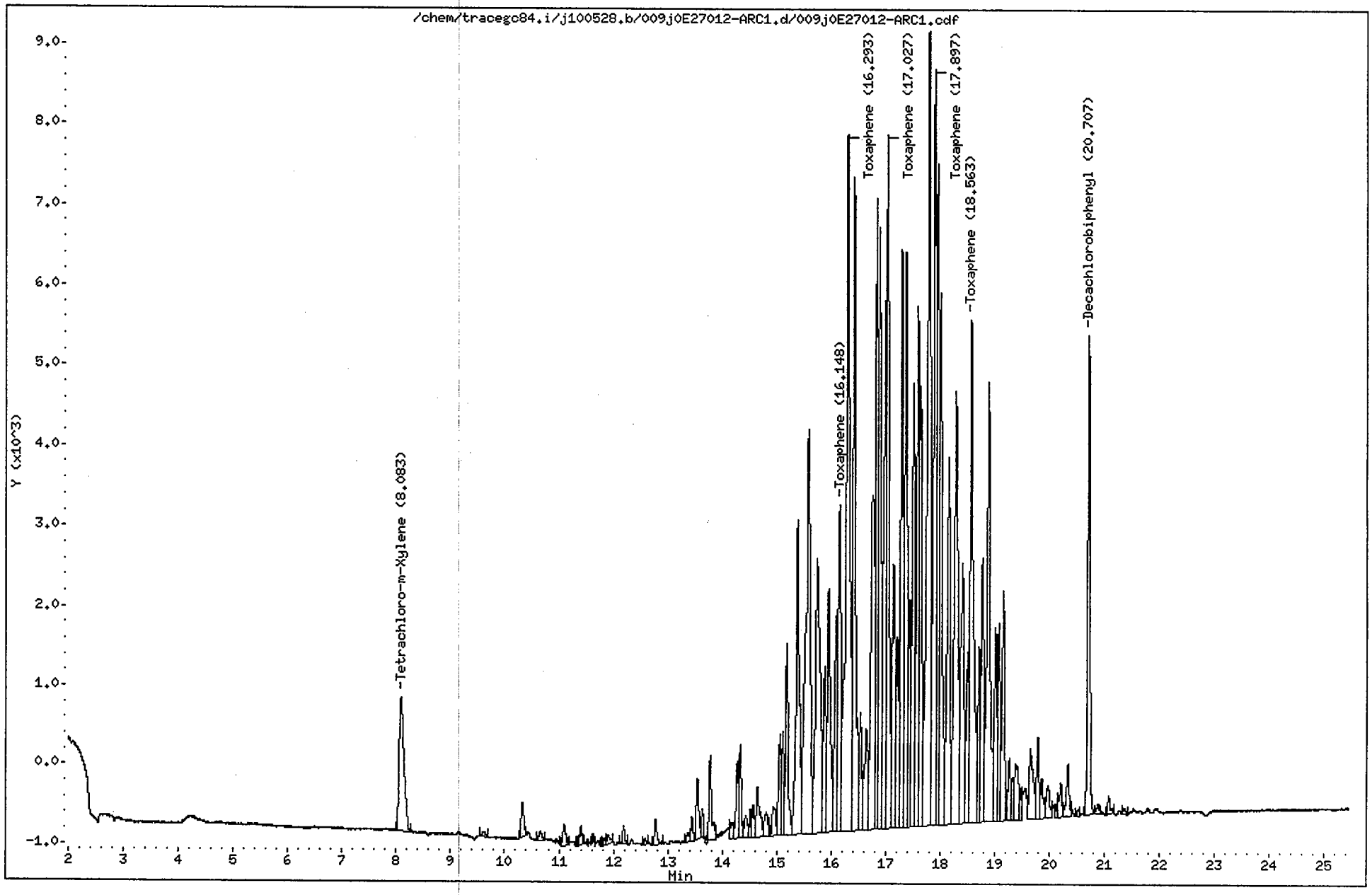
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			3249					
2.61			128					
7.82			681					
8.08	8.01	8.15	39913	522758	Tetrachloro-m-Xylene	0.080000	498913	
9.14			506					
9.60	9.53	9.67	60568	775960	alpha-BHC	0.080000	757100	
10.43	10.36	10.50	56377	729192	gamma-BHC (Lindane)	0.080000	704713	
10.66	10.59	10.73	22653	300532	beta-BHC	0.080000	283163	
10.86			351					
11.09	11.02	11.16	53861	689518	delta-BHC	0.080000	673263	
11.26			475					
11.62	11.55	11.69	50929	695465	Heptachlor	0.080000	636600	
12.34	12.27	12.41	46817	636570	Aldrin	0.080000	585200	
13.12			558					
13.55			280					
13.75	13.68	13.82	42653	593700	Heptachlor Epoxide	0.080000	533150	
14.04	13.97	14.11	43114	594875	gamma-Chlordane	0.080000	538925	
14.34	14.27	14.41	37339	516712	alpha-Chlordane	0.080000	466737	
14.52	14.45	14.59	77431	523741	4,4'-DDE	0.160000	483944	
14.64	14.57	14.71	39883	548162	Endosulfan I	0.080000	498537	
15.17	15.10	15.24	76716	515556	Dieldrin	0.160000	479469	
15.45			2365					
15.68	15.61	15.75	67490	463071	Endrin	0.160000	421806	
15.82	15.74	15.88	58597	393458	4,4'-DDD	0.160000	366225	
16.01			121					
16.16	16.09	16.23	65978	450326	Endosulfan II	0.160000	412356	
16.32			394					
16.42	16.35	16.49	66592	454781	4,4'-DDT	0.160000	416194	
16.94			123					
17.07	17.00	17.14	50408	348470	Endrin Aldehyde	0.160000	315050	
17.44	17.37	17.51	136783	194359	Methoxychlor	0.800000	170977	
17.61			647					
18.00	17.93	18.07	56525	392055	Endosulfan sulfate	0.160000	353275	
18.28			1187					
18.60	18.53	18.67	67095	457258	Endrin Ketone	0.160000	419337	
18.96			137					
20.30			252					
20.70	20.63	20.77	54511	408350	Decachlorobiphenyl	0.160000	340687	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/009j0E27012-ARC1.d
Date : 28-MAY-2010 20:43
Client ID: TOXAPH3HA
Sample Info: 0E27012-ARC1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56			24358					
8.08	8.01	8.15	10558	522758	Tetrachloro-m-Xylene	0.020000	518200	
9.62			309					
10.33			1568					
10.66			402					
11.09			990					
11.40			779					
11.82			202					
11.90			506					
12.19			648					
12.58			176					
12.77			1115					
13.37			390					
13.45			773					
13.54			2468					
13.64			912					
13.78			3494					
14.18			680					
14.28			2861					
14.33			3309					
14.43			1100					
14.52			832					
14.57			1207					
14.65			2838					
14.81			1346					
14.93			1597					
15.05			3875					
15.11			3435					
15.18			7871					
15.37			16420					
15.57			29577					
15.74			21775					
15.88			6318					
15.95			11917					
16.09			9879					
16.15	16.08	16.22	14843	7421	Toxaphene Peak 1	2.000000	7421.000	
16.29	16.22	16.36	41666	20833	Toxaphene Peak 2	2.000000	20833	
16.41			28617					
16.53			4507					
16.64			6293					
16.75			19518					
16.83			22191					

2M

AHW
6/1/10

AHW
6/1/10

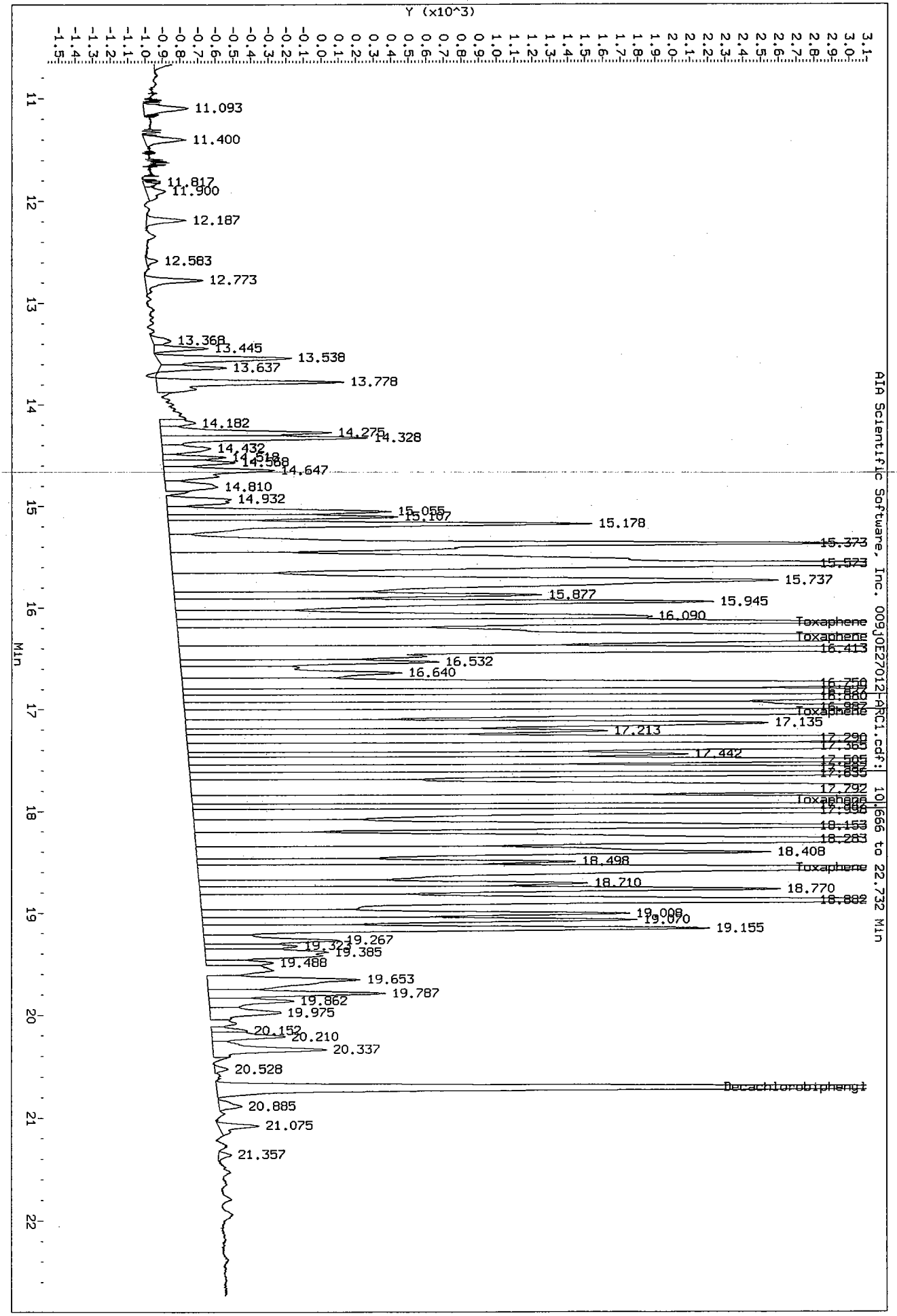
CompuChem

Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.88		23512					
16.99		21348					
17.03	16.96 17.10	28626	14312	Toxaphene Peak 3	2.000000	14313	ZM
17.14		13251					
17.21		7060					
17.29		23121					
17.36		25594					
17.44		7892					
17.50		17368					
17.59		21427					
17.64		16338					
17.79		44953					
17.90	17.83 17.97	32621	16310	Toxaphene Peak 4	2.000000	16310	
17.95		23314					
18.00		21781					
18.15		17931					
18.28		26018					
18.41		15580					
18.50		6059					
18.56	18.49 18.63	26685	13342	Toxaphene Peak 5	2.000000	13342	
18.71		6666					
18.77		11185					
18.88		22226					
19.01		7578					
19.07		7754					
19.16		9352					
19.27		2707					
19.32		1421					
19.39		3544					
19.49		1084					
19.65		4444					
19.79		3103					
19.86		1723					
19.98		1738					
20.15		447					
20.21		1465					
20.34		2484					
20.53		193					
20.71	20.63 20.77	17009	408350	Decachlorobiphenyl	0.040000	403000	
20.89		448					
21.07		713					
21.36		207					

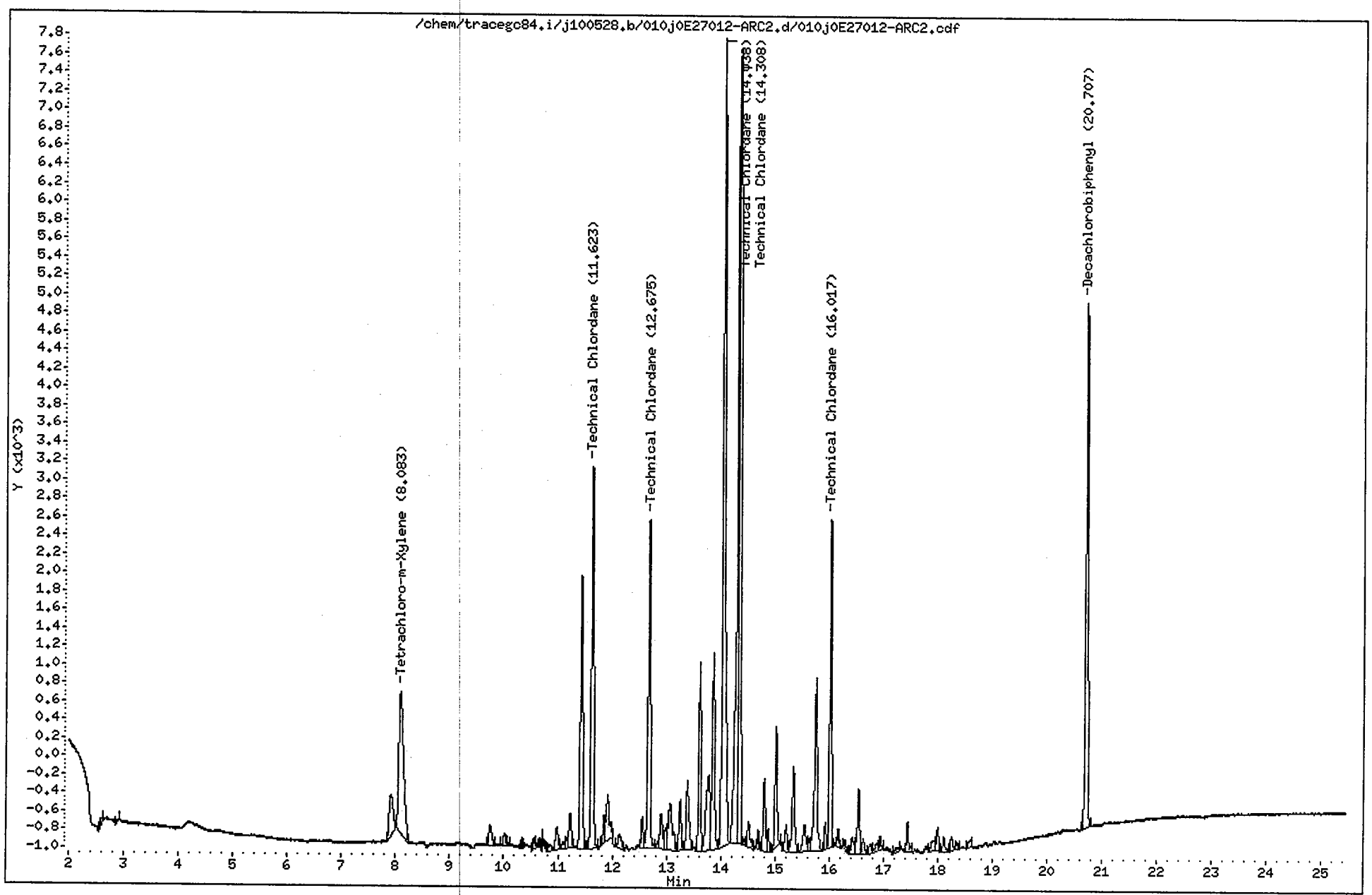
Rev 6/1/10

AHW 6/1/10


Data File: /chem/tracegc84.i/j100528.b/009jOE27012-ARC1.d/009jOE27012-ARC1.cdf
Injection Date: 28-MAY-2010 20:43
Instrument: tracegc84.i
Client Sample ID: TOXAPH3HA
Y (x10^3)
Min
AIA Scientific Software, Inc. 009jOE27012-ARC1.cdf:
10.666 to 22.732 Min
11.093
11.400
11.817
11.900
12.187
12.583
12.773
13.368
13.445
13.538
13.637
13.778
14.182
14.275
14.328
14.432
14.518
14.568
14.647
14.810
14.932
15.055
15.107
15.178
15.373
15.573
15.737
15.877
15.945
16.090
Toxaphene
Toxaphene
16.413
16.532
16.640
16.750
Toxaphene
17.135
17.213
17.290
17.365
17.442
17.505
17.635
17.792
Toxaphene
18.153
18.283
18.408
18.498
Toxaphene
18.710
18.770
18.882
19.008
19.070
19.155
19.267
19.385
19.488
19.653
19.787
19.862
19.975
20.152
20.210
20.337
20.528
Decachlorobiphenyl
20.885
21.075
21.357

Data File: /chem/tracegc84.i/j100528.b/010j0E27012-ARC2.d
Date : 28-MAY-2010 21:11
Client ID: CHLOR03HA
Sample Info: 0E27012-ARC2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 28-MAY-2010 21:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55		3144					
2.61		236					
2.89		132					
7.91		2292					
8.08	8.01 8.15	9295	522758	Tetrachloro-m-Xylene	0.020000	518200	
9.74		872					
10.02		546					
10.35		172					
10.55		303					
10.71		194					
10.82		301					
10.98		819					
11.10		232					
11.17		249					
11.22		1199					
11.42		9327					
11.62	11.55 11.69	12816	32040	TechnicalChlordane Peak 1	0.400000	32040	
11.85		777					
11.91		1992					
12.13		661					
12.55		847					
12.68	12.61 12.75	10802	27002	TechnicalChlordane Peak 2	0.400000	27003	
12.84		186					
12.90		1323					
12.98		581					
13.06		2773					
13.25		1605					
13.38		2661					
13.61		5322					
13.78		4299					
13.86		6651					
14.04	13.97 14.11	27683	69208	TechnicalChlordane Peak 3	0.400000	69207	
14.31	14.24 14.38	21396	53488	TechnicalChlordane Peak 4	0.400000	53487	
14.33		21026					
14.43		147					
14.51		948					
14.69		425					
14.80		2186					
14.87		657					
15.01		3629					
15.21		847					
15.34		3048					

AHW
6/1/10

CompuChem

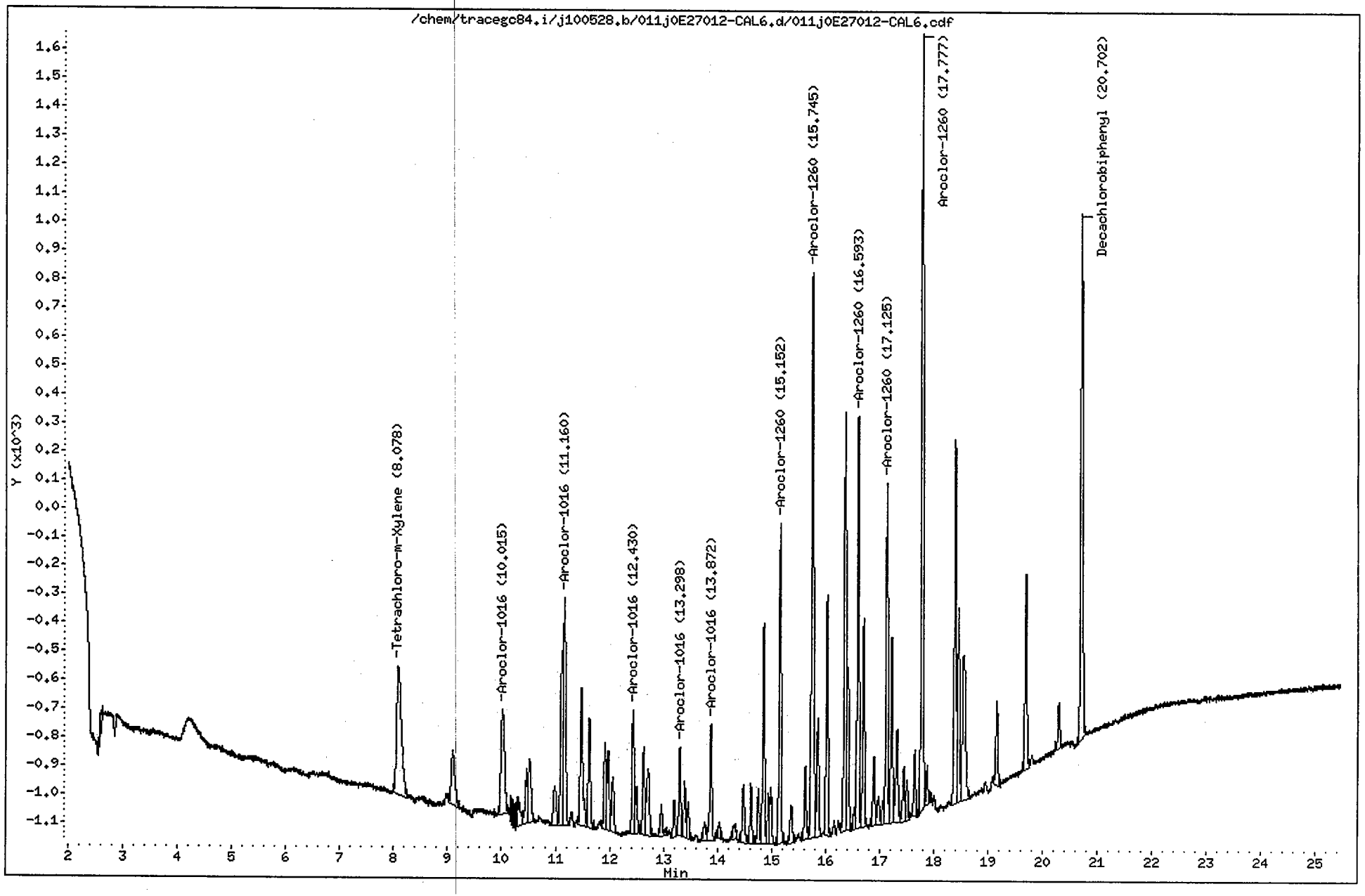
Lab Smp Id : 0E27012-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 28-MAY-2010 21:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.54		1136					
15.62		313					
15.75		6299					
15.93		682					
16.02	15.95 16.09	8940	22350	TechnicalChlordane Peak 5	0.400000	22350	
16.17		448					
16.29		241					
16.43		614					
16.54		2122					
16.63		473					
16.76		303					
16.88		290					
16.95		347					
17.25		149					
17.44		877					
17.89		575					
18.00		694					
18.11		452					
18.25		444					
18.36		149					
18.57		251					
20.71	20.63 20.77	15746	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/011j0E27012-CAL6.d
Date : 28-MAY-2010 21:40
Client ID: AR16601HA
Sample Info: 0E27012-CAL6
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 28-MAY-2010 21:40 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16601HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56		3520					
2.59		170					
8.08	8.01 8.15	2767	522758	Tetrachloro-m-Xylene	0.005000	537800	
9.09		902					
10.02	9.95 10.09	1704	15485	Aroclor-1016 Peak 1	0.100000	17040	
10.30		383					
10.46		489					
10.52		870					
10.98		528					
11.11		1558					
11.16	11.09 11.23	2521	22974	Aroclor-1016 Peak 2	0.100000	25200	
11.47		1557					
11.62		1096					
11.91		804					
11.97		780					
12.06		587					
12.43	12.36 12.50	1156	10563	Aroclor-1016 Peak 3	0.100000	11560	
12.49		414					
12.63		808					
12.72		911					
12.96		316					
13.20		306					
13.30	13.23 13.37	745	6997	Aroclor-1016 Peak 4	0.100000	7450.000	
13.39		506					
13.46		304					
13.77		199					
13.87	13.81 13.95	1131	10047	Aroclor-1016 Peak 5	0.100000	11310	
14.03		153					
14.30		186					
14.48		587					
14.62		512					
14.75		471					
14.85		1852					
14.94		401					
14.98		478					
15.15	15.08 15.22	2767	23522	Aroclor-1260 Peak 1	0.100000	27660	
15.36		403					
15.62		649					
15.74	15.68 15.82	5499	46694	Aroclor-1260 Peak 2	0.100000	54980	
15.85		1061					
16.02		2074					
16.35		3908					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 28-MAY-2010 21:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16601HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.41		1447					
16.53		138					
16.59	16.53 16.67	3561	30634	Aroclor-1260 Peak 3	0.100000	35610	
16.70		1748					
16.89		619					
16.98		267					
17.06		185					
17.12	17.06 17.20	2961	25456	Aroclor-1260 Peak 4	0.100000	29610	
17.21		1590					
17.32		996					
17.44		512					
17.50		339					
17.65		558					
17.78	17.71 17.85	6708	57759	Aroclor-1260 Peak 5	0.100000	67080	
17.87		305					
18.39		3123					
18.45		1664					
18.54		2061					
19.16		730					
19.69		1693					
20.29		371					
20.70	20.63 20.77	4944	408350	Decachlorobiphenyl	0.010000	482100	

Data File: /chem/tracegc84.i/j100528.b/012j0E27012-CAL7.d

Date : 28-MAY-2010 22:10

Client ID: AR16602HA

Sample Info: 0E27012-CAL7

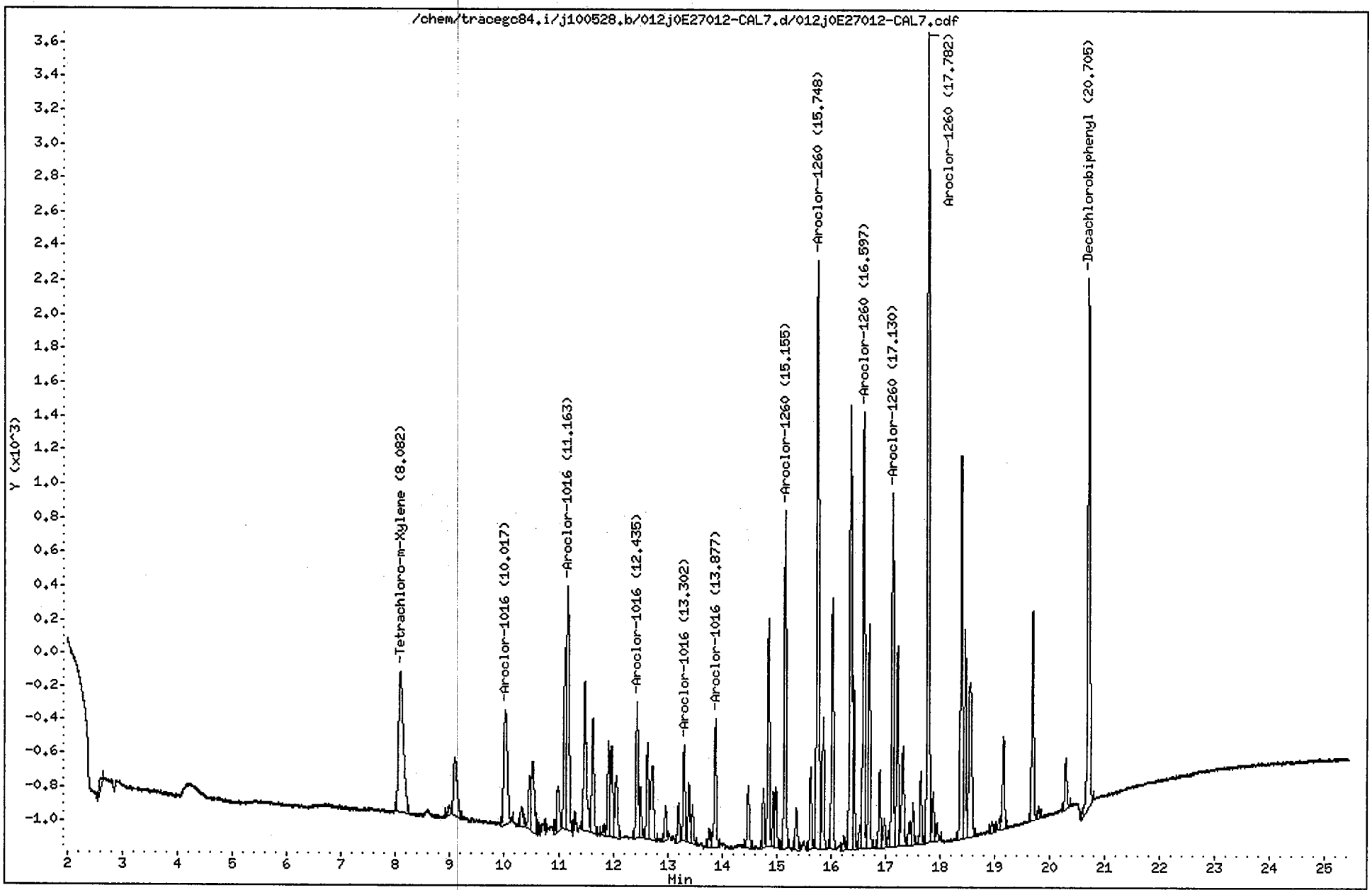
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 28-MAY-2010 22:10 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16602HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56		3394					
2.62		287					
8.08	8.01 8.15	5111	522758	Tetrachloro-m-Xylene	0.010000	545600	
8.98		168					
9.09		1587					
10.02	9.95 10.09	3202	15485	Aroclor-1016 Peak 1	0.200000	16010	
10.32		401					
10.47		855					
10.53		1721					
10.95		194					
10.99		893					
11.11		2453					
11.16	11.09 11.23	4955	22974	Aroclor-1016 Peak 2	0.200000	24775	
11.48		2978					
11.63		1965					
11.83		175					
11.91		1534					
11.97		1482					
12.06		1224					
12.44	12.36 12.50	2175	10563	Aroclor-1016 Peak 3	0.200000	10870	
12.50		784					
12.63		1476					
12.72		1715					
12.96		496					
13.20		546					
13.30	13.23 13.37	1376	6997	Aroclor-1016 Peak 4	0.200000	6875.000	
13.39		893					
13.46		572					
13.77		273					
13.88	13.81 13.95	2082	10047	Aroclor-1016 Peak 5	0.200000	10405	
14.48		1031					
14.76		821					
14.85		3269					
14.94		740					
14.99		840					
15.16	15.08 15.22	4966	23522	Aroclor-1260 Peak 1	0.200000	24830	
15.37		690					
15.63		1165					
15.75	15.68 15.82	9746	46694	Aroclor-1260 Peak 2	0.200000	48725	
15.86		1914					
16.02		3785					
16.24		204					

AHW
6/1/10

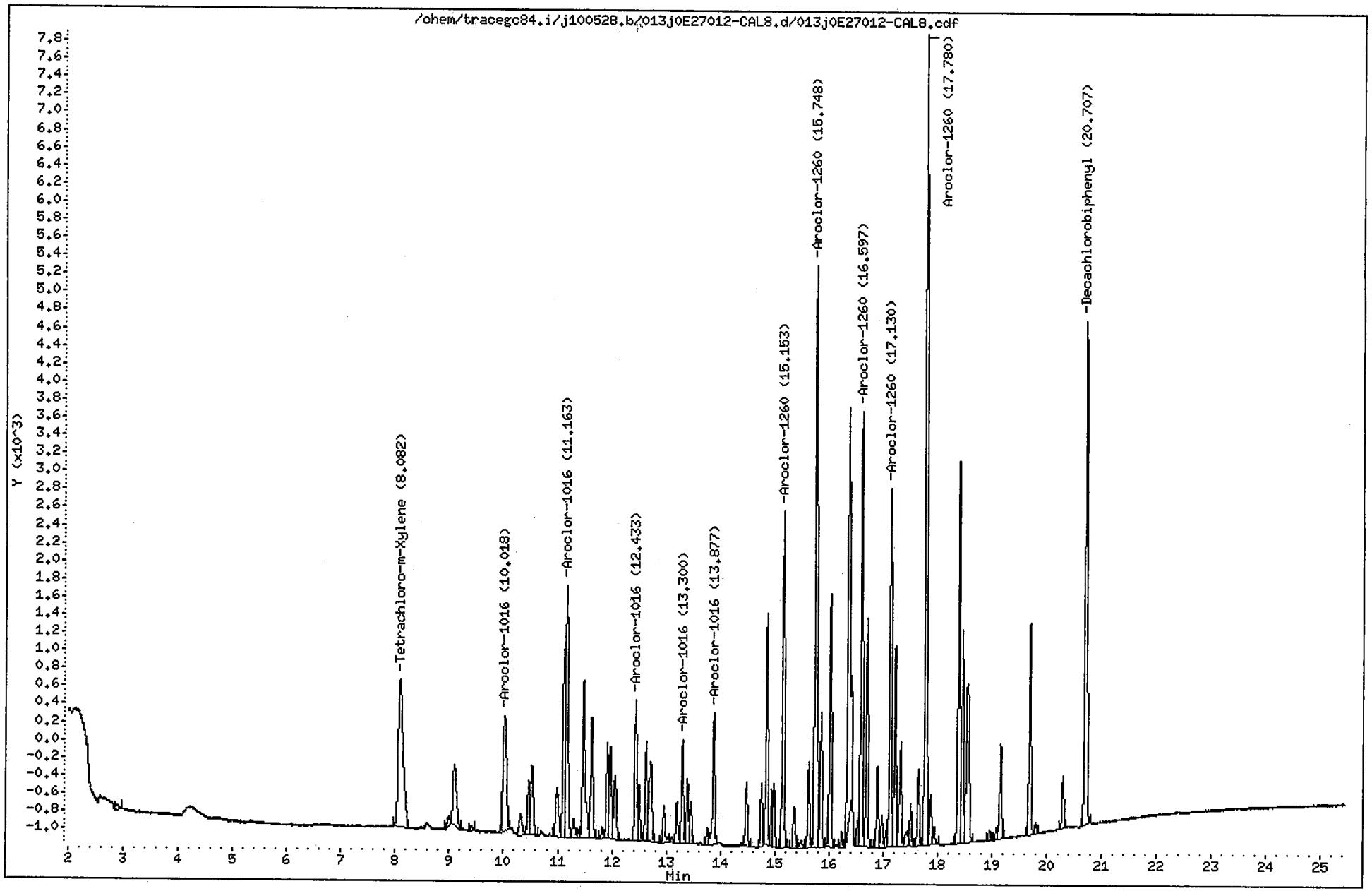
CompuChem

Lab Smp Id : 0E27012-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 28-MAY-2010 22:10 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16602HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.36		7192					
16.41		2387					
16.53		279					
16.60	16.53 16.67	6472	30634	Aroclor-1260 Peak 3	0.200000	32360	
16.70		3267					
16.89		1120					
16.98		448					
17.05		200					
17.13	17.06 17.20	5313	25456	Aroclor-1260 Peak 4	0.200000	26565	
17.22		2891					
17.32		1753					
17.44		413					
17.51		561					
17.65		1014					
17.78	17.71 17.85	12048	57759	Aroclor-1260 Peak 5	0.200000	60240	
17.87		729					
17.94		293					
18.39		5771					
18.45		3059					
18.55		3649					
18.95		160					
19.08		156					
19.16		1411					
19.69		3081					
19.80		138					
20.29		789					
20.70	20.63 20.77	8841	408350	Decachlorobiphenyl	0.020000	446650	

Data File: /chem/tracegc84.i/j100528.b/013j0E27012-CAL8.d
Date : 28-MAY-2010 22:38
Client ID: AR16603HA
Sample Info: 0E27012-CAL8
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 28-MAY-2010 22:38 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16603HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56		24150					
2.88		267					
8.08	8.01 8.15	10346	522758	Tetrachloro-m-Xylene	0.020000	518200	
8.99		354					
9.09		3161					
9.41		176					
10.02	9.95 10.09	6110	15485	Aroclor-1016 Peak 1	0.400000	15275	
10.32		841					
10.46		1618					
10.52		2899					
10.99		2044					
11.11		5325					
11.16	11.09 11.23	9213	22974	Aroclor-1016 Peak 2	0.400000	23033	
11.30		682					
11.38		210					
11.48		6114					
11.63		3897					
11.82		302					
11.91		2768					
11.97		2942					
12.06		2375					
12.43	12.36 12.50	4296	10563	Aroclor-1016 Peak 3	0.400000	10740	
12.50		1583					
12.63		2895					
12.72		3338					
12.96		1215					
13.11		157					
13.20		1187					
13.30	13.23 13.37	2917	6997	Aroclor-1016 Peak 4	0.400000	7290.000	
13.39		1889					
13.46		1219					
13.77		494					
13.88	13.81 13.95	3998	10047	Aroclor-1016 Peak 5	0.400000	9995.000	
14.48		1969					
14.76		1640					
14.85		6318					
14.94		1482					
14.99		1704					
15.15	15.08 15.22	9457	23522	Aroclor-1260 Peak 1	0.400000	23643	
15.36		1397					
15.49		293					
15.63		2355					

AHW
6/1/10

CompuChem

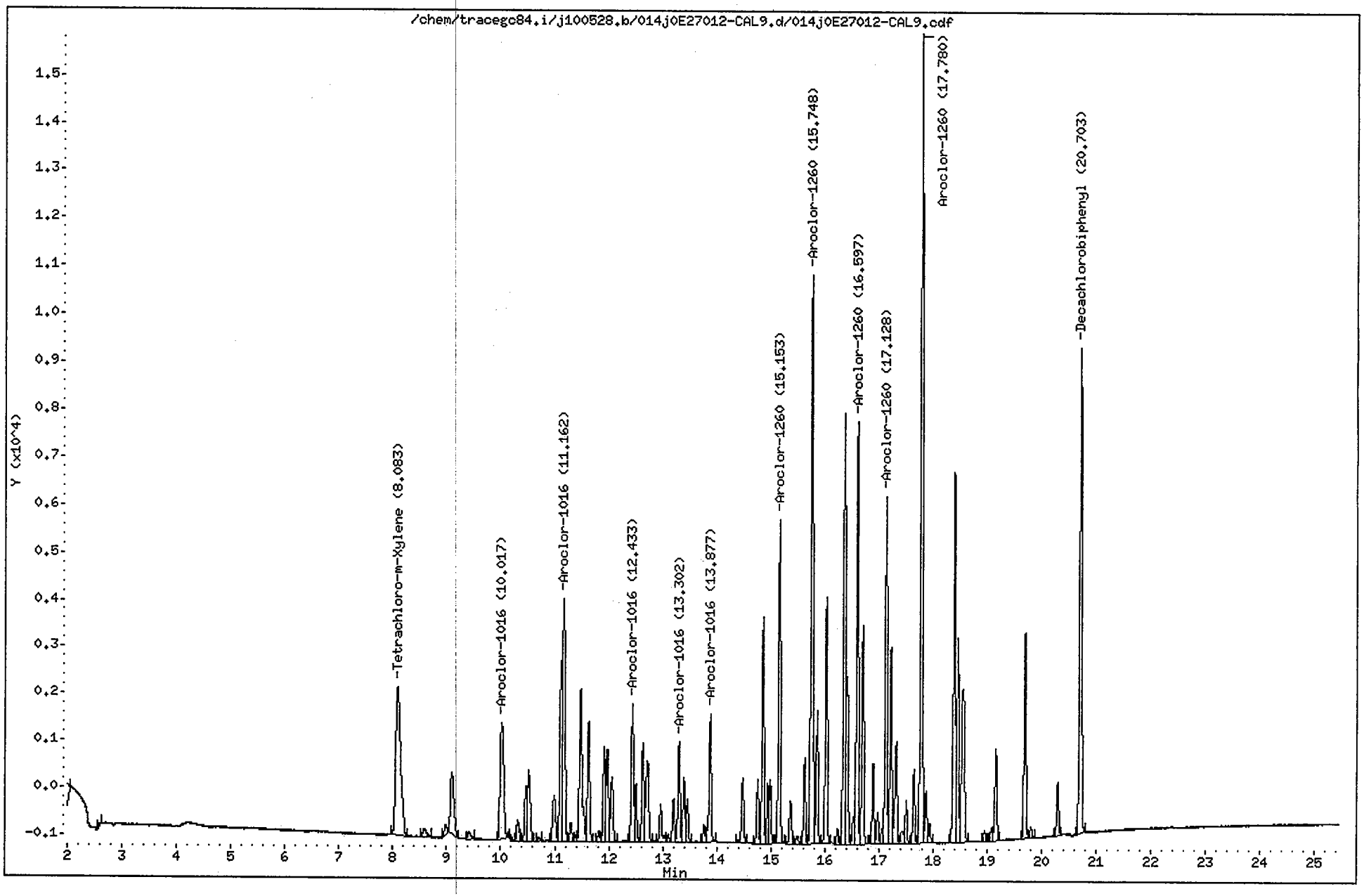
Lab Smp Id : 0E27012-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 28-MAY-2010 22:38 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16603HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.75	15.68 15.82	18648	46694	Aroclor-1260 Peak 2	0.400000	46620	
15.85		3801					
16.02		7349					
16.24		412					
16.36		15379					
16.53		642					
16.60	16.53 16.67	12252	30634	Aroclor-1260 Peak 3	0.400000	30627	
16.70		6322					
16.89		2203					
16.98		867					
17.06		395					
17.13	17.06 17.20	10256	25456	Aroclor-1260 Peak 4	0.400000	25640	
17.22		5637					
17.32		3467					
17.44		592					
17.51		1173					
17.65		2041					
17.78	17.71 17.85	22955	57759	Aroclor-1260 Peak 5	0.400000	57385	
17.87		1415					
17.94		520					
18.39		11047					
18.45		5878					
18.55		6954					
18.95		327					
19.08		343					
19.16		2847					
19.69		5998					
19.80		299					
20.30		1460					
20.71	20.63 20.77	15493	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/014j0E27012-CAL9.d
Date : 28-MAY-2010 23:07
Client ID: AR16604HA
Sample Info: 0E27012-CAL9
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 28-MAY-2010 23:07 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16604HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44		125					
1.56		25544					
2.60		153					
8.08	8.01 8.15	20185	522758	Tetrachloro-m-Xylene	0.040000	513275	
8.59		872					
8.98		657					
9.09		6109					
9.41		565					
10.02	9.95 10.09	11992	15485	Aroclor-1016 Peak 1	0.800000	14990	
10.31		1623					
10.47		3365					
10.52		5263					
10.71		191					
10.99		3888					
11.11		9659					
11.16	11.09 11.23	17361	22974	Aroclor-1016 Peak 2	0.800000	21701	
11.30		1192					
11.39		386					
11.47		11480					
11.63		7407					
11.82		660					
11.91		5385					
11.97		5650					
12.06		4523					
12.43	12.36 12.50	8185	10563	Aroclor-1016 Peak 3	0.800000	10230	
12.50		3221					
12.63		5585					
12.72		6541					
12.96		2515					
13.11		407					
13.20		2340					
13.30	13.23 13.37	5559	6997	Aroclor-1016 Peak 4	0.800000	6948.750	
13.39		3616					
13.46		2380					
13.77		956					
13.88	13.81 13.95	7714	10047	Aroclor-1016 Peak 5	0.800000	9642.500	
14.39		179					
14.47		3827					
14.76		3371					
14.85		12073					
14.94		3015					
14.99		3303					

AHW
6/1/10

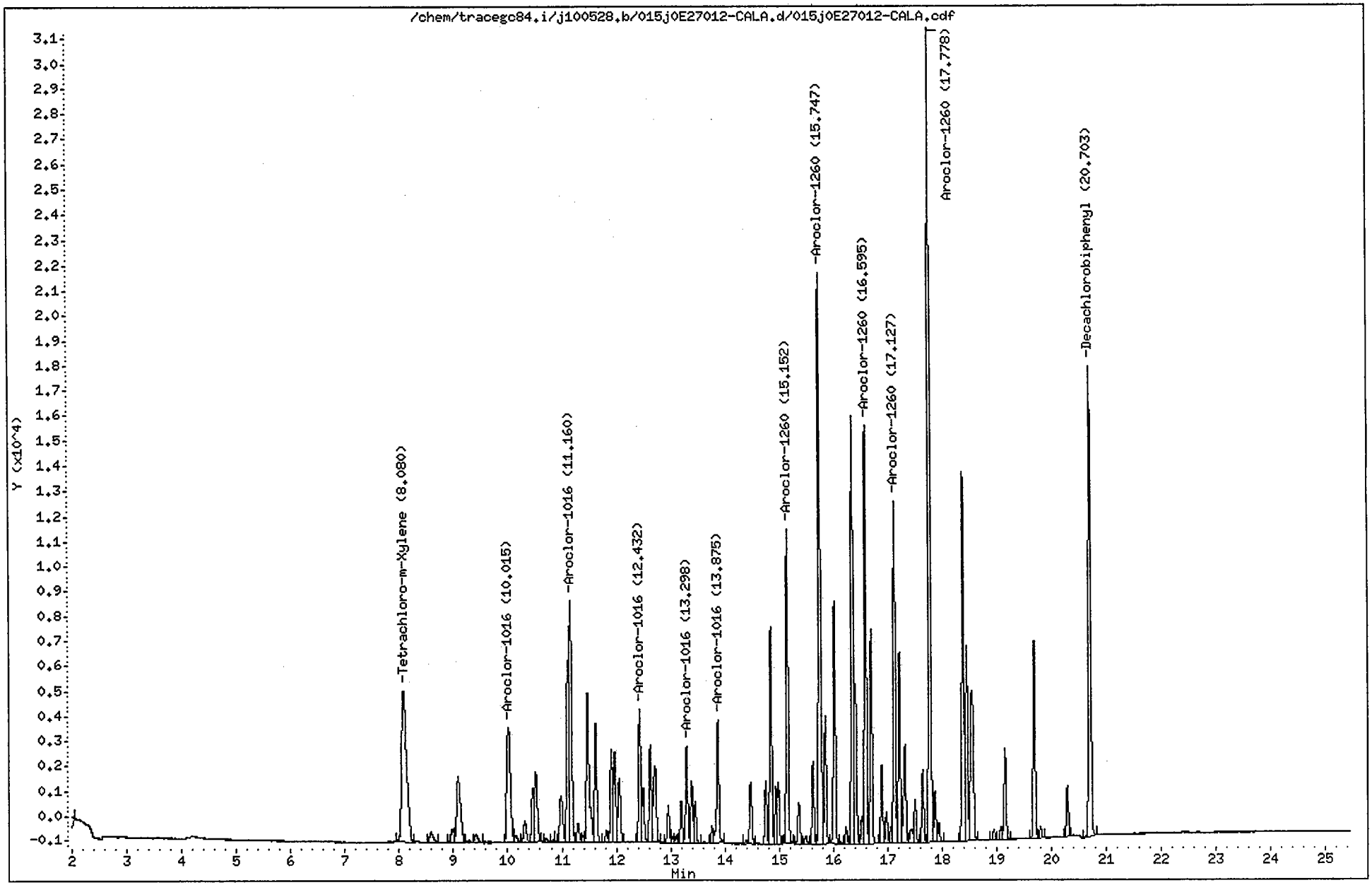
CompuChem

Lab Smp Id : 0E27012-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 28-MAY-2010 23:07 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16604HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.15	15.08 15.22	17271	23522	Aroclor-1260 Peak 1	0.800000	21587	
15.37		2617					
15.50		557					
15.62		4436					
15.75	15.68 15.82	34379	46694	Aroclor-1260 Peak 2	0.800000	42974	
15.85		7021					
16.02		13737					
16.23		803					
16.36		25290					
16.41		8474					
16.53		1302					
16.60	16.53 16.67	22635	30634	Aroclor-1260 Peak 3	0.800000	28294	
16.70		11870					
16.89		4166					
16.98		1645					
17.05		713					
17.13	17.06 17.20	18884	25456	Aroclor-1260 Peak 4	0.800000	23605	
17.22		10385					
17.32		6517					
17.42		996					
17.50		2248					
17.65		3880					
17.78	17.71 17.85	42652	57759	Aroclor-1260 Peak 5	0.800000	53315	
17.87		2672					
17.94		950					
18.39		20345					
18.45		10856					
18.55		12918					
18.95		603					
19.08		650					
19.16		5250					
19.69		11058					
19.80		591					
20.29		2820					
20.70	20.63 20.77	28052	408350	Decachlorobiphenyl	0.080000	369313	

Data File: /chem/tracegc84.i/j100528.b/015j0E27012-CALA.d
Date : 28-MAY-2010 23:36
Client ID: AR16605HA
Sample Info: 0E27012-CALA
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 28-MAY-2010 23:36 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16605HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44		136					
1.56		22796					
8.08	8.01 8.15	38541	522758	Tetrachloro-m-Xylene	0.080000	498913	
8.58		2097					
8.97		2115					
9.09		13363					
9.41		1315					
10.02	9.95 10.09	22577	15485	Aroclor-1016 Peak 1	1.600000	14111	
10.14		1046					
10.31		3107					
10.47		6161					
10.52		10007					
10.70		493					
10.86		130					
10.98		7446					
11.11		18142					
11.16	11.09 11.23	32256	22974	Aroclor-1016 Peak 2	1.600000	20160	
11.29		2414					
11.39		790					
11.47		21565					
11.62		14013					
11.82		1333					
11.91		10102					
11.97		10481					
12.05		8519					
12.43	12.36 12.50	15068	10563	Aroclor-1016 Peak 3	1.600000	9416.875	
12.49		6118					
12.63		10474					
12.72		12219					
12.96		4138					
13.03		666					
13.10		773					
13.20		4471					
13.30	13.23 13.37	10278	6997	Aroclor-1016 Peak 4	1.600000	6423.125	
13.39		6778					
13.45		4623					
13.76		1816					
13.88	13.81 13.95	14214	10047	Aroclor-1016 Peak 5	1.600000	8883.125	
14.39		257					
14.48		6972					
14.75		6257					
14.85		22143					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-CALA
Sample Type : INITIAL CAL: Level 5
Inj Date : 28-MAY-2010 23:36
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR16605HA

Client Smp Id : AR16605HA
Sublist : AR1660
Inst ID :

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.94		5693					
14.98		6157					
15.15	15.08 15.22	31824	23522	Aroclor-1260 Peak 1	1.600000	19889	
15.36		4930					
15.49		1046					
15.62		8213					
15.75	15.68 15.82	64274	46694	Aroclor-1260 Peak 2	1.600000	40171	
15.85		12877					
16.02		25491					
16.13		199					
16.23		1546					
16.35		47716					
16.41		15057					
16.53		2560					
16.60	16.53 16.67	42043	30634	Aroclor-1260 Peak 3	1.600000	26276	
16.70		21872					
16.89		7781					
16.98		3167					
17.05		1430					
17.13	17.06 17.20	34976	25456	Aroclor-1260 Peak 4	1.600000	21860	
17.22		19261					
17.32		12242					
17.43		2019					
17.50		4340					
17.65		7276					
17.78	17.71 17.85	81243	57759	Aroclor-1260 Peak 5	1.600000	50777	
17.87		5164					
17.94		1884					
18.39		38185					
18.45		19689					
18.54		23668					
18.95		1141					
19.08		1255					
19.16		9881					
19.69		20464					
19.80		1193					
20.29		5262					
20.70	20.63 20.77	51898	408350	Decachlorobiphenyl	0.160000	340687	

Data File: /chem/tracegc84.i/j100528.b/016j0E27012-ARC3.d

Date : 29-MAY-2010 00:05

Client ID: AR12213HA

Instrument: tracegc84.i

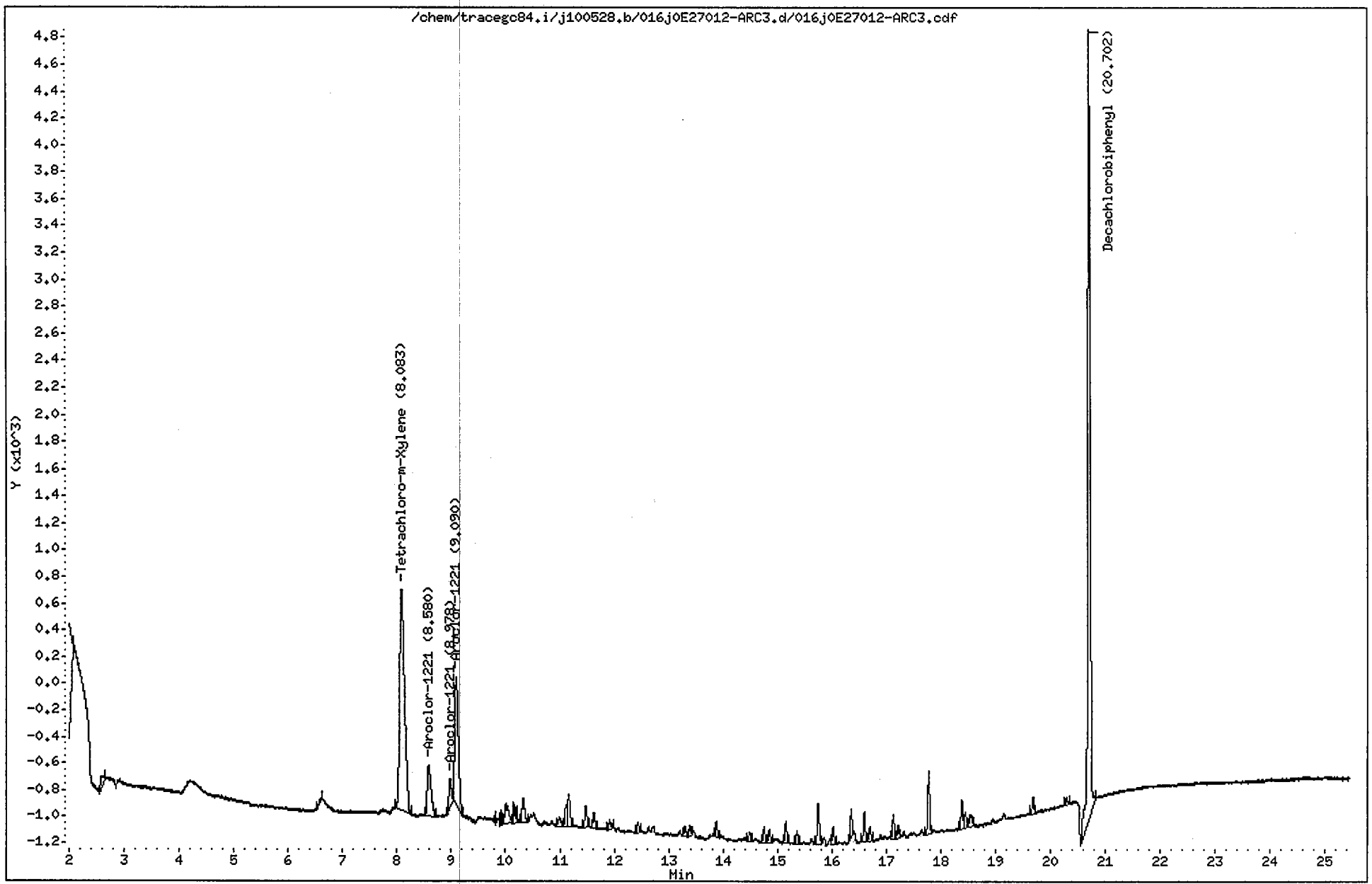
Sample Info: 0E27012-ARC3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC3 Client Smp Id : AR12213HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 29-MAY-2010 00:05 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12213HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56			46706					
2.59			246					
6.60			145					
8.08	8.01	8.15	10436	522758	Tetrachloro-m-Xylene	0.020000	518200	
8.58	8.51	8.65	1932	4828	Aroclor-1221 Peak 2	0.400000	4827.500	
8.98	8.91	9.05	681	1702	Aroclor-1221 Peak 3	0.400000	1702.500	
9.09	9.02	9.16	4396	10990	Aroclor-1221 Peak 4	0.400000	10990	
10.00			677					
10.15			419					
10.33			647					
10.99			266					
11.12			393					
11.16			780					
11.48			448					
11.62			347					
11.92			222					
12.44			192					
13.30			205					
13.39			169					
13.88			264					
14.48			191					
14.75			287					
14.85			245					
15.15			395					
15.35			268					
15.74			845					
16.02			328					
16.36			480					
16.59			511					
16.70			249					
17.13			433					
17.21			227					
17.78			1137					
18.38			540					
18.45			277					
18.55			314					
19.69			302					
20.29			148					
20.70	20.63	20.77	17787	408350	Decachlorobiphenyl	0.040000	403000	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/017j0E27012-ARC4.d

Date : 29-MAY-2010 00:34

Client ID: AR12323HA

Instrument: tracegc84.i

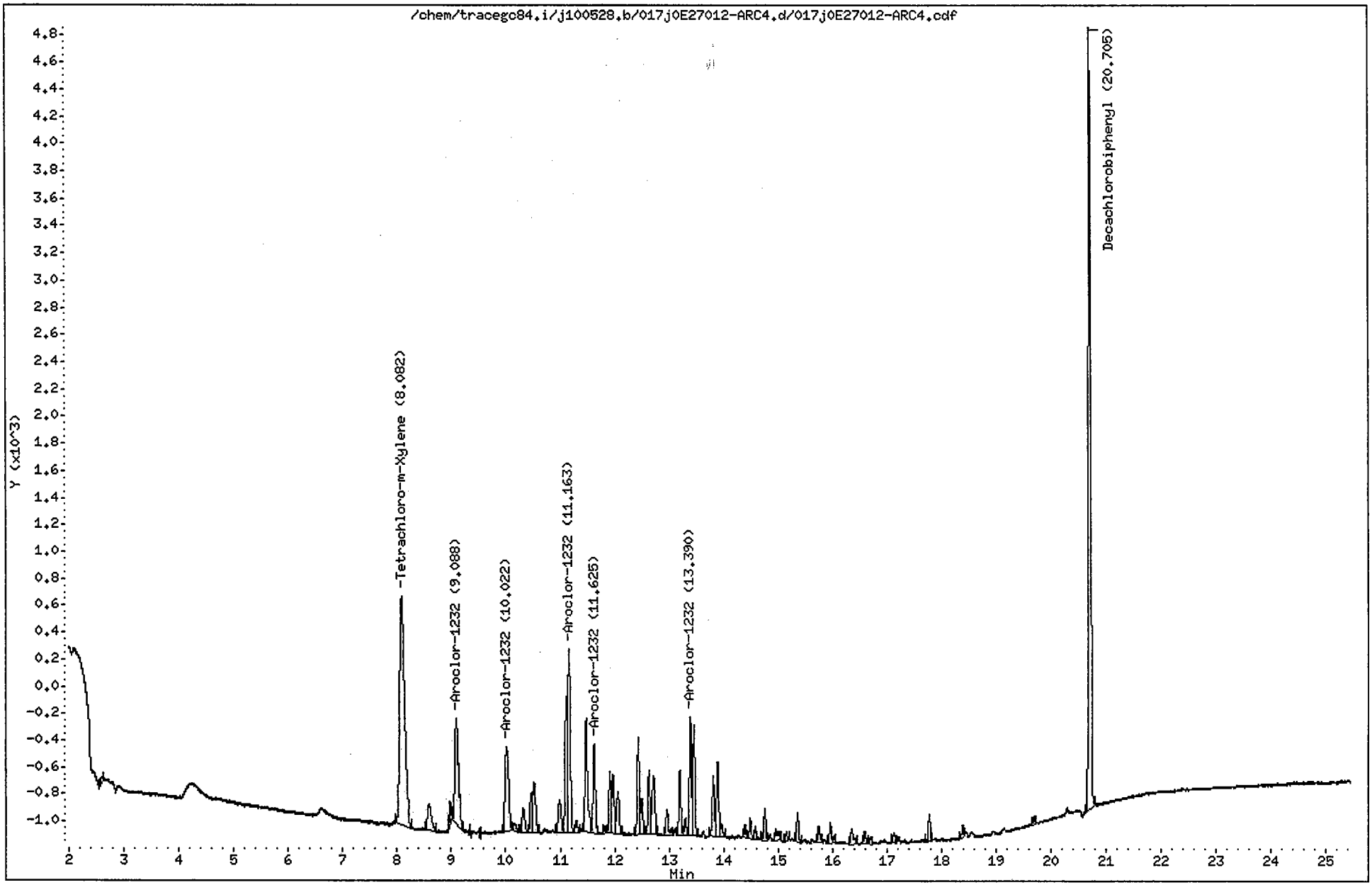
Sample Info: 0E27012-ARC4

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 29-MAY-2010 00:34 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.56		23153					
2.59		142					
8.08	8.01 8.15	10692	522758	Tetrachloro-m-Xylene	0.020000	518200	
8.59		1062					
8.97		388					
9.09	9.02 9.16	3587	8968	Aroclor-1232 Peak 1	0.400000	8967.500	
10.02	9.95 10.09	2925	7312	Aroclor-1232 Peak 2	0.400000	7312.500	
10.16		195					
10.32		666					
10.46		729					
10.52		1411					
10.99		964					
11.11		2664					
11.16	11.09 11.23	4330	10825	Aroclor-1232 Peak 3	0.400000	10825	
11.30		252					
11.48		2752					
11.62	11.56 11.70	1875	4685	Aroclor-1232 Peak 4	0.400000	4685.000	
11.83		130					
11.91		1200					
11.97		1266					
12.06		993					
12.43		1930					
12.50		704					
12.63		1233					
12.72		1571					
12.96		599					
13.20		1217					
13.30		330					
13.39	13.32 13.46	2184	5460	Aroclor-1232 Peak 5	0.400000	5460.000	
13.46		2195					
13.81		1214					
13.90		1610					
13.96		261					
14.39		229					
14.49		374					
14.59		240					
14.76		583					
14.96		323					
15.15		151					
15.36		554					
15.74		334					
15.96		451					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 29-MAY-2010 00:34 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.36		371					
16.59		223					
16.70		121					
17.13		177					
17.78		507					
18.39		203					
19.69		148					
20.70	20.63 20.77	15922	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/018j0E27012-ARC5.d

Date : 29-MAY-2010 01:03

Client ID: AR12423HA

Instrument: tracegc84.i

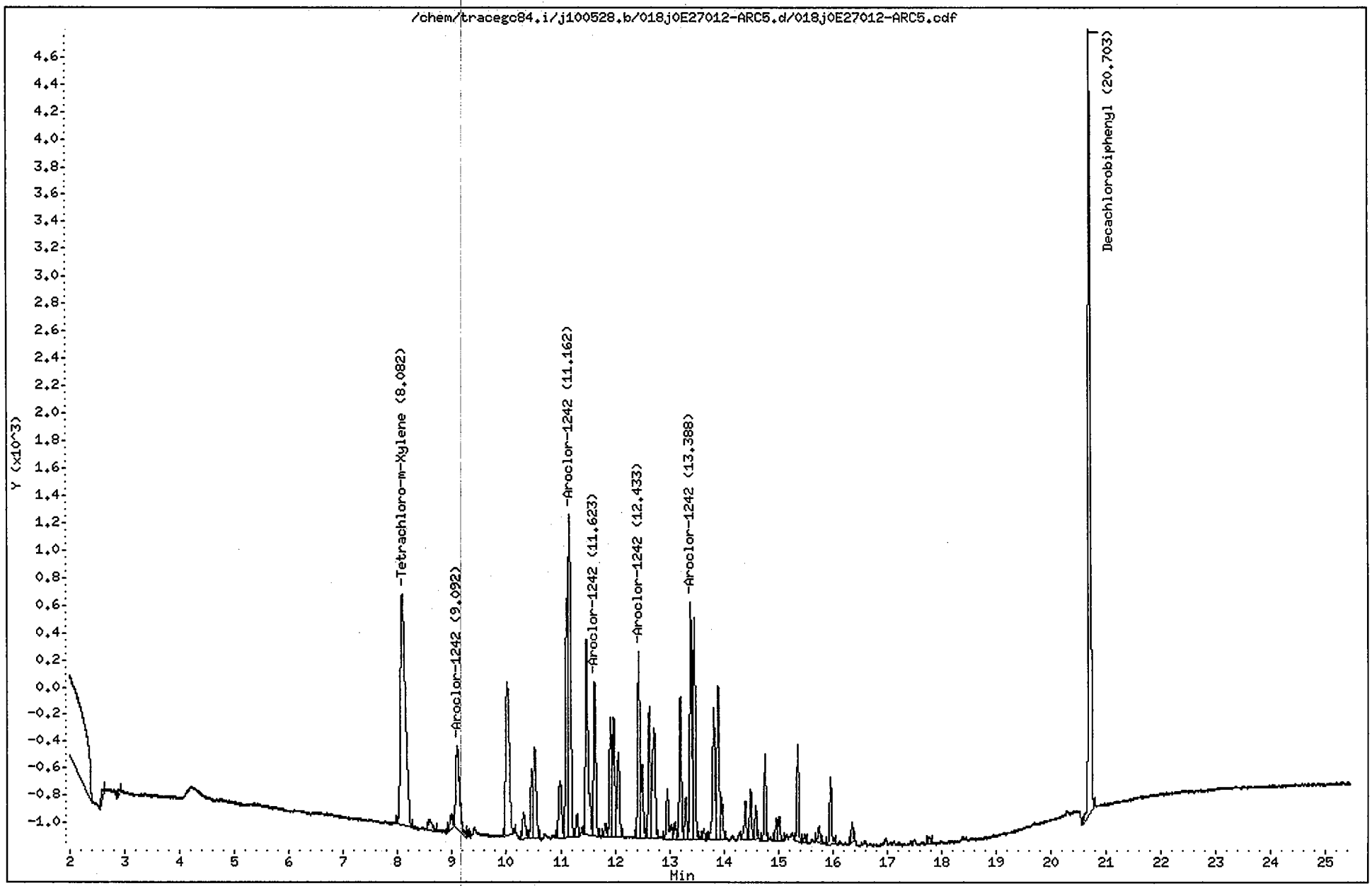
Sample Info: 0E27012-ARC5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: olpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 29-MAY-2010 01:03 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12423HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.45		268					
1.57		51914					
2.59		168					
2.88		149					
8.08	8.01 8.15	10697	522758	Tetrachloro-m-Xylene	0.020000	518200	
8.58		421					
8.97		453					
9.09	9.02 9.16	2993	7480	Aroclor-1242 Peak 1	0.400000	7480.000	
10.02		5302					
10.32		672					
10.47		1415					
10.52		2363					
10.99		1671					
11.11		4527					
11.16	11.09 11.23	7642	19102	Aroclor-1242 Peak 2	0.400000	19103	
11.30		461					
11.47		4930					
11.62	11.55 11.69	3237	8092	Aroclor-1242 Peak 3	0.400000	8092.500	
11.82		273					
11.91		2376					
11.97		2518					
12.06		2001					
12.43	12.36 12.50	3706	9262	Aroclor-1242 Peak 4	0.400000	9262.500	
12.49		1438					
12.63		2561					
12.72		3057					
12.96		1275					
13.10		313					
13.20		2678					
13.30		812					
13.39	13.32 13.46	4515	11288	Aroclor-1242 Peak 5	0.400000	11287	
13.46		4257					
13.63		207					
13.81		2818					
13.89		3385					
13.96		739					
14.39		756					
14.49		883					
14.59		574					
14.76		1518					
14.96		435					
15.02		461					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 29-MAY-2010 01:03 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12423HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.36		1704					
15.49		134					
15.74		349					
15.96		1315					
16.36		348					
17.78		130					
20.70	20.63 20.77	16204	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/019j0E27012-ARC6.d

Date : 29-MAY-2010 01:32

Client ID: AR12483HA

Sample Info: 0E27012-ARC6

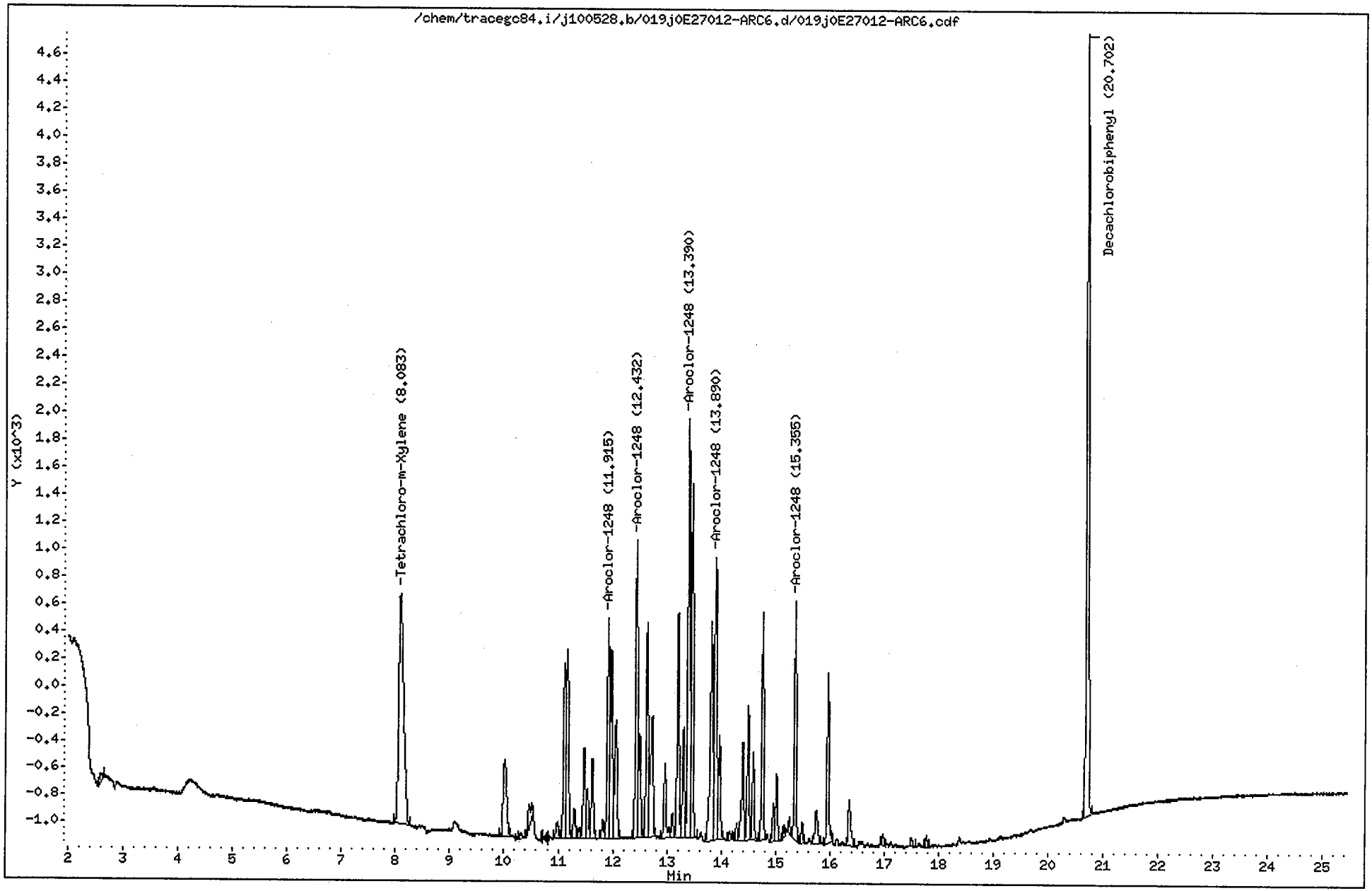
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 29-MAY-2010 01:32 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12483HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.57			26123					
2.59			199					
8.08	8.01	8.15	10582	522758	Tetrachloro-m-Xylene	0.020000	518200	
10.01			2614					
10.31			167					
10.47			703					
10.98			429					
11.11			3552					
11.16			4295					
11.30			638					
11.39			196					
11.48			1916					
11.53			1037					
11.63			1672					
11.82			396					
11.92	11.84	11.98	4449	11120	Aroclor-1248 Peak 1	0.400000	11120	
11.97			3850					
12.05			2890					
12.43	12.36	12.50	5968	14920	Aroclor-1248 Peak 2	0.400000	14920	
12.50			2000					
12.63			4254					
12.72			3299					
12.96			1648					
13.11			452					
13.20			4311					
13.30			2178					
13.39	13.32	13.46	8089	20220	Aroclor-1248 Peak 3	0.400000	20220	
13.46			6838					
13.81			5073					
13.89	13.82	13.96	6583	16458	Aroclor-1248 Peak 4	0.400000	16457	
13.96			1985					
14.16			160					
14.28			317					
14.39			2093					
14.49			2431					
14.58			1625					
14.76			4083					
14.96			726					
15.02			1270					
15.15			206					
15.25			263					
15.36	15.29	15.43	4153	10382	Aroclor-1248 Peak 5	0.400000	10383	

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 29-MAY-2010 01:32 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.49		369					
15.75		890					
15.96		3202					
16.36		1104					
16.98		203					
17.50		168					
17.77		204					
20.70	20.63 20.77	15735	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/020j0E27012-ARC7.d

Page 1

Date : 29-MAY-2010 02:01

Client ID: AR12543HA

Instrument: tracegc84.i

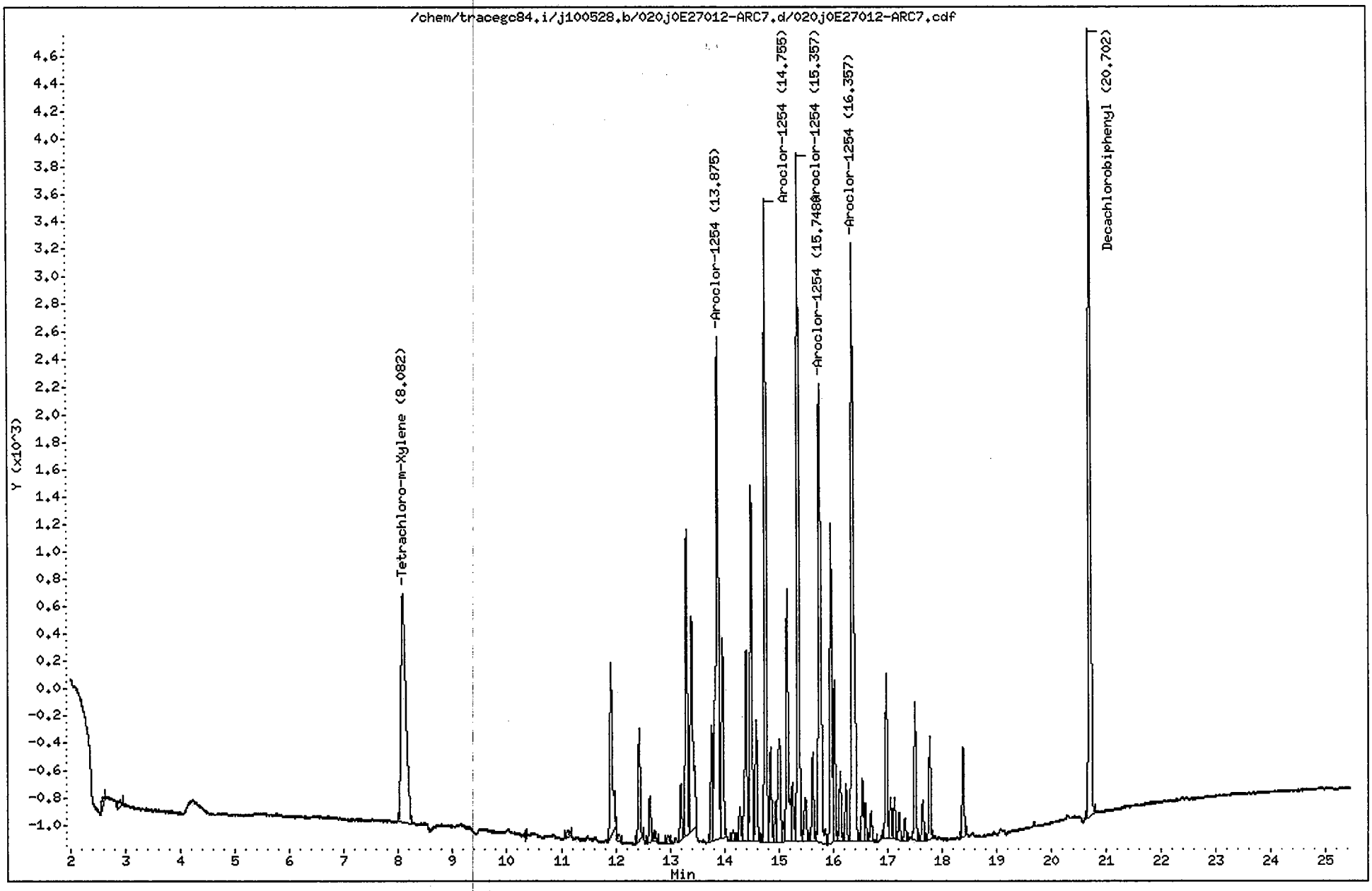
Sample Info: 0E27012-ARC7

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 29-MAY-2010 02:01 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.57		3467					
2.60		226					
2.88		166					
8.08	8.01 8.15	10470	522758	Tetrachloro-m-Xylene	0.020000	518200	
11.11		211					
11.91		3962					
12.05		128					
12.43		2100					
12.63		859					
12.72		192					
12.96		157					
13.20		1002					
13.30		5700					
13.39		5431					
13.77		2080					
13.88	13.80 13.94	12324	30808	Aroclor-1254 Peak 1	0.400000	30807	
13.96		3770					
14.16		194					
14.28		607					
14.39		3914					
14.49		6797					
14.58		2204					
14.76	14.69 14.83	11839	29595	Aroclor-1254 Peak 2	0.400000	29595	
14.85		1701					
14.94		672					
15.01		2782					
15.08		305					
15.15		5184					
15.25		1211					
15.36	15.29 15.43	12857	32140	Aroclor-1254 Peak 3	0.400000	32140	
15.49		979					
15.63		1563					
15.75	15.68 15.82	11314	28282	Aroclor-1254 Peak 4	0.400000	28283	
15.96		5720					
16.02		2833					
16.13		1225					
16.23		983					
16.36	16.29 16.43	14550	36372	Aroclor-1254 Peak 5	0.400000	36373	
16.54		1171					
16.59		635					
16.70		560					
16.98		2984					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 29-MAY-2010 02:01 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
17.06		685					
17.13		691					
17.21		479					
17.32		400					
17.51		2421					
17.65		710					
17.78		1824					
18.39		1563					
20.70	20.63 20.77	15780	408350	Decachlorobiphenyl	0.040000	403000	

Data File: /chem/tracegc84.i/j100528.b/021j0E27012-ICV1.d

Date : 29-MAY-2010 02:30

Client ID: PESTCHKHA

Sample Info: 0E27012-ICV1

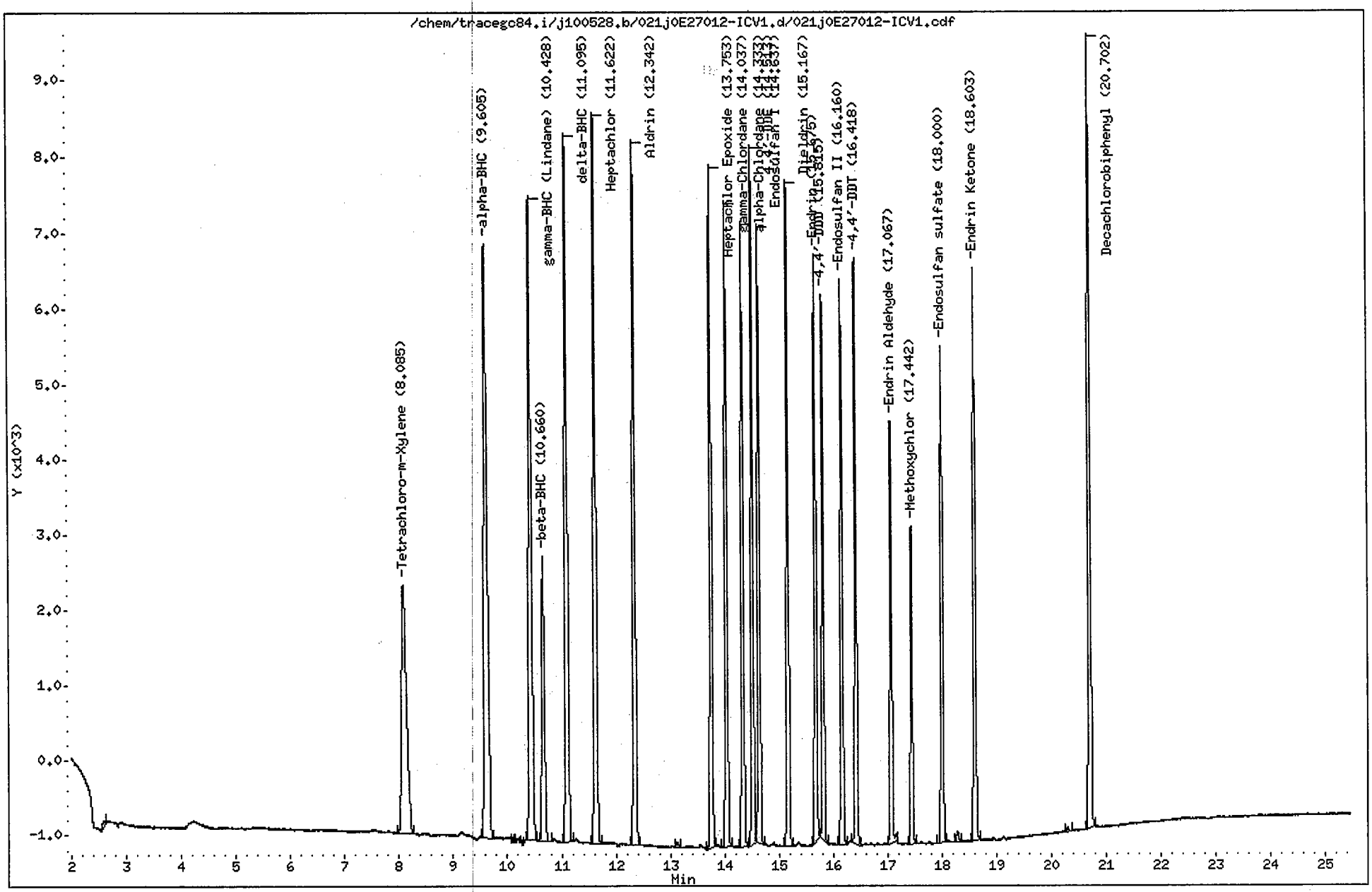
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ICV1 Client Smp Id : PESTCHKHA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 29-MAY-2010 02:30 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : INDAchek
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : PESTCHKHA

RT	AREA
1.45	168
1.56	2609
2.59	185
8.09	20838
9.61	33942
10.07	164
10.43	30684
10.66	12917
11.10	30106
11.62	30001
12.34	27087
13.12	178
13.75	24133
14.04	22702
14.33	21763
14.51	22736
14.64	21593
15.17	22758
15.68	19965
15.81	17360
16.16	19654
16.42	18918
17.07	14675
17.44	10202
18.00	17176
18.28	398
18.60	20204
20.29	150
20.70	29005

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528.b/022j0E27012-ICV2.d

Date : 29-MAY-2010 02:59

Client ID: PCBCHKHA

Instrument: tracegc84.i

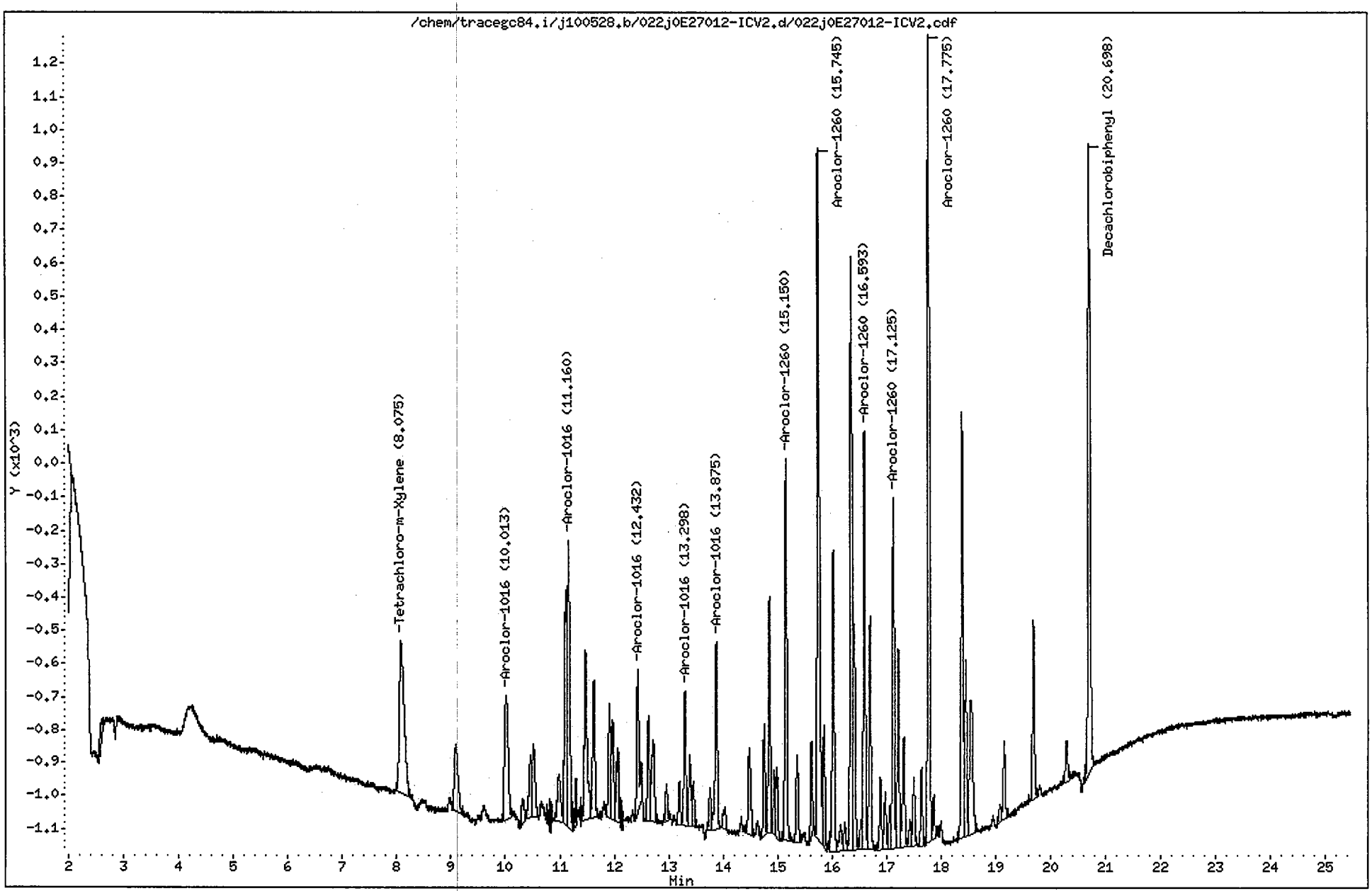
Sample Info: 0E27012-ICV2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 29-MAY-2010 02:59 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : PCBCHKHA

RT	AREA
1.44	148
1.55	28239
2.61	180
8.07	2833
9.09	935
10.01	1774
10.32	262
10.46	595
10.52	780
10.98	605
11.12	1964
11.16	2804
11.31	251
11.47	1783
11.63	1199
11.91	764
11.97	958
12.06	674
12.43	1335
12.63	810
12.72	939
12.95	279
13.20	338
13.30	1039
13.39	557
13.46	354
13.76	334
13.87	1523
14.00	217
14.48	843
14.75	783
14.85	1665
14.94	433
14.98	491
15.15	2903
15.36	718
15.62	648
15.74	5974
15.85	942
16.02	2326
16.16	291
16.23	215
16.35	4828
16.41	1636
16.54	191

AHW
6/1/10

CompuChem

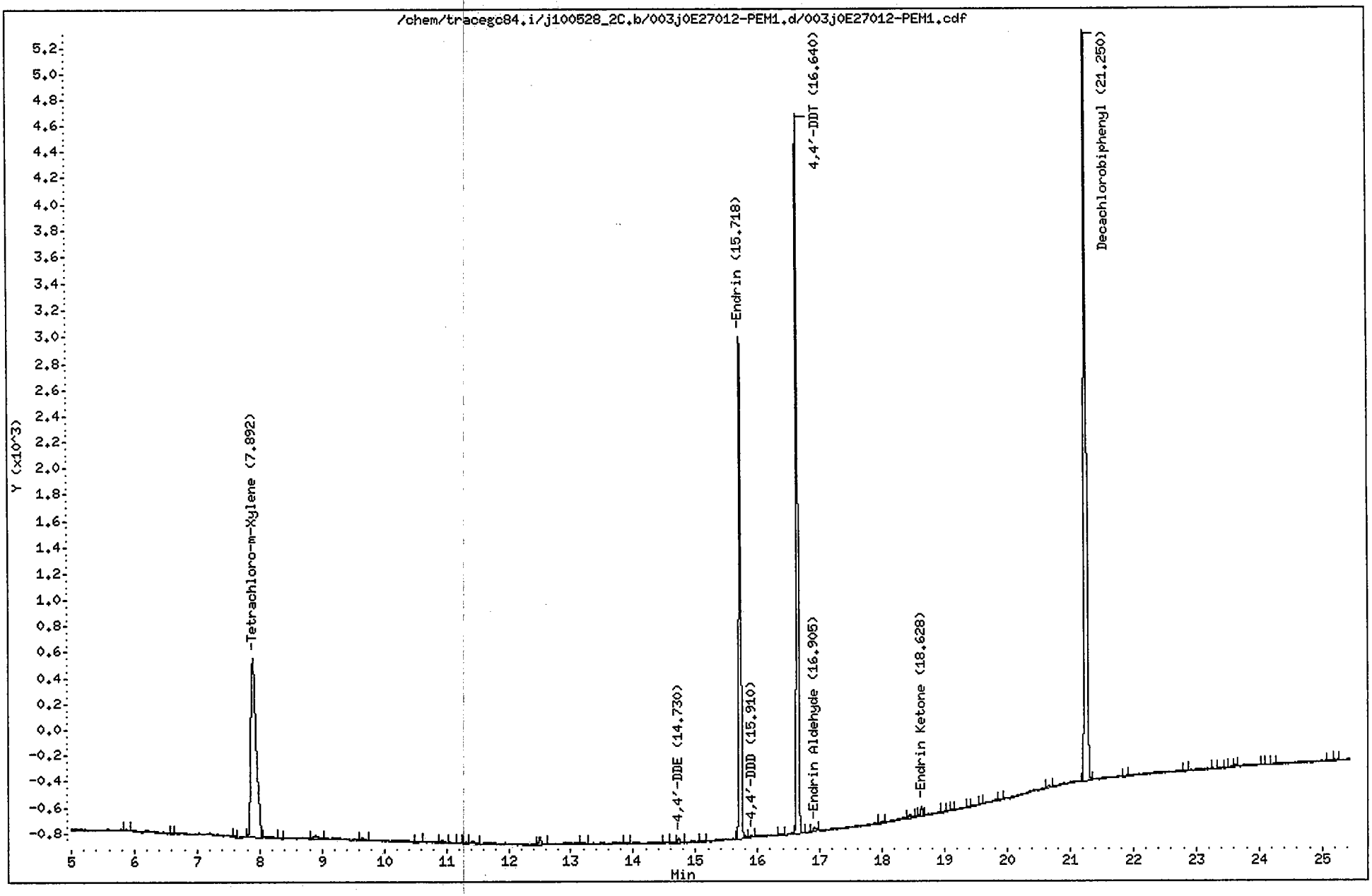
Lab Smp Id : 0E27012-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 29-MAY-2010 02:59 Inst ID :
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/j100528.b/8081A_clpestv6.m
Misc. Info : PCBCHKHA

RT	AREA
16.59	3115
16.70	1706
16.89	547
16.98	453
17.06	313
17.13	2630
17.21	1466
17.32	945
17.43	235
17.50	509
17.64	566
17.77	6042
17.87	287
18.39	3239
18.45	1267
18.54	1739
19.07	133
19.15	605
19.68	1320
20.29	320
20.70	5181

Data File: /chem/tracegc84.i/j100528_2C.b/003j0E27012-PEM1.d
Date : 28-MAY-2010 17:49
Client ID: PEMHA
Sample Info: 0E27012-PEM1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-PEM1 Client Smp Id : PEMHA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 28-MAY-2010 17:49 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.33			46								
0.39			31								
1.04			46								
1.40			153								
1.54			18183								
1.87			12847								
2.51			425								
2.64			78								
3.38			29								
3.43			32								
3.47			85								
4.40			27								
5.87			29								
6.60			22								
7.59			38								
7.89	7.82	7.96	8163	416798	Tetrachloro-m-Xylene	0.019585	0.019585		98.9	43 - 135	
8.30			22								
8.90			131								
9.64			83								
10.50			31								
10.92			73								
11.19			23								
11.32			29								
11.42			65								
12.50			174								
13.20			44								
13.91			43								
14.52			32								
14.73	14.67	14.81	94	468602	4,4'-DDE	0.000202	0.000202	0.020000			J
15.13			32								
15.72	15.65	15.79	8924	408649	Endrin	0.021839	0.021839	0.020000			
15.91	15.91	16.05	31	340626	4,4'-DDD	0.000090	0.000090	0.020000			J
16.35			38								
16.64	16.57	16.71	11745	405929	4,4'-DDT	0.028933	0.028933	0.020000			
16.90	16.83	16.97	101	316985	Endrin Aldehyde	0.000317	0.000317	0.020000			J
18.02			40								
18.43			82								

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-PEM1 Client Smp Id : PEMHA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 28-MAY-2010 17:49 Inst ID :
Operator : System
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PEMHA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
18.63	18.56 18.70	175	419519	Endrin Ketone	0.000416	0.000416	0.020000			J
19.02		24								
19.11		24								
19.38		24								
19.59		21								
19.89		23								
20.65		75								
21.25	21.18 21.32	15537	406698	Decachlorobiphenyl	0.038202	0.038202		96.5	43 - 144	
21.86		24								
22.82		29								
23.27		32								
23.47		21								
23.61		22								
24.05		21								
24.23		24								
25.12		27								
25.21		34								

Data File: /chem/tracegc84.i/j100528_2C.b/004j0E27012-CAL1.d

Date : 28-MAY-2010 18:18

Client ID: INDC1HA

Instrument: tracegc84.i

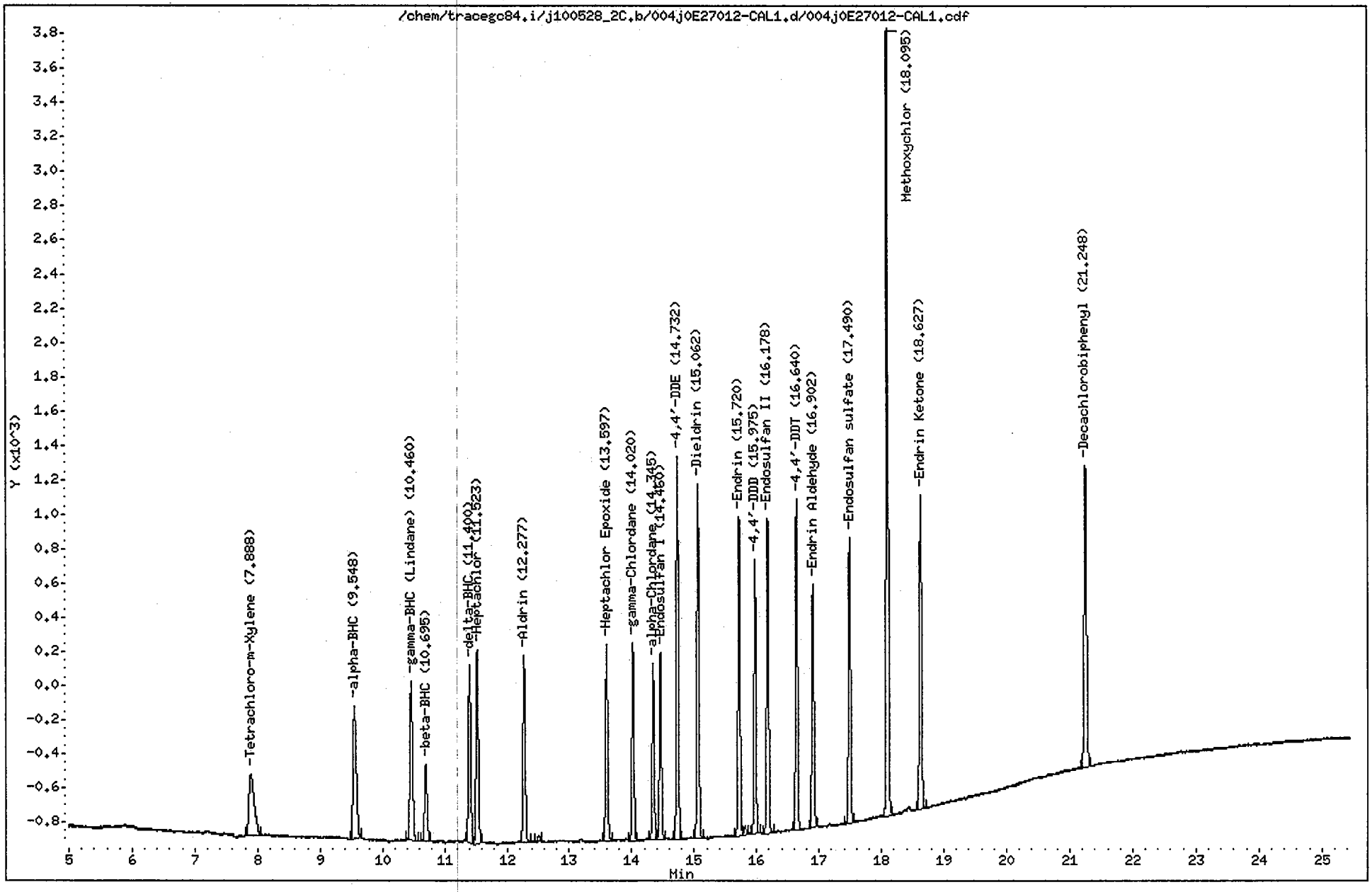
Sample Info: 0E27012-CAL1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL1 Client Smp Id : INDC1HA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 28-MAY-2010 18:18 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC1HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			166382					
7.89	7.82	7.96	2147	416798	Tetrachloro-m-Xylene	0.005000	429200	
9.55	9.48	9.62	2811	607758	alpha-BHC	0.005000	562000	
10.46	10.39	10.53	2794	585542	gamma-BHC (Lindane)	0.005000	558800	
10.70	10.63	10.77	1258	248610	beta-BHC	0.005000	251400	
11.40	11.33	11.47	2626	551235	delta-BHC	0.005000	525200	
11.52	11.45	11.59	3024	579497	Heptachlor	0.005500	549636	
12.28	12.21	12.35	2716	542192	Aldrin	0.005000	543000	
12.50			97					
13.60	13.53	13.67	2645	511912	Heptachlor Epoxide	0.005000	529000	
14.02	13.95	14.09	2635	513150	gamma-Chlordane	0.005000	526800	
14.34	14.28	14.42	2318	446248	alpha-Chlordane	0.005000	463600	
14.46	14.39	14.53	2487	477982	Endosulfan I	0.005000	497200	
14.73	14.66	14.80	4824	468602	4,4'-DDE	0.010000	482400	
15.06	14.99	15.13	4658	461929	Dieldrin	0.010000	465800	
15.72	15.65	15.79	4218	408649	Endrin	0.010000	421800	
15.82			116					
15.98	15.90	16.04	3337	340626	4,4'-DDD	0.010000	333600	
16.18	16.11	16.25	4221	404930	Endosulfan II	0.010000	422000	
16.64	16.57	16.71	4145	405929	4,4'-DDT	0.010000	414500	
16.90	16.83	16.97	3257	316985	Endrin Aldehyde	0.010000	325700	
17.49	17.42	17.56	3848	366674	Endosulfan sulfate	0.010000	384700	
18.10	18.02	18.16	10091	182916	Methoxychlor	0.050000	201820	
18.63	18.56	18.70	4349	419519	Endrin Ketone	0.010000	434900	
21.25	21.18	21.32	4660	406698	Decachlorobiphenyl	0.010000	466000	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/005j0E27012-CAL2.d

Page 1

Date : 28-MAY-2010 18:47

Client ID: INDC2HA

Instrument: tracegc84.i

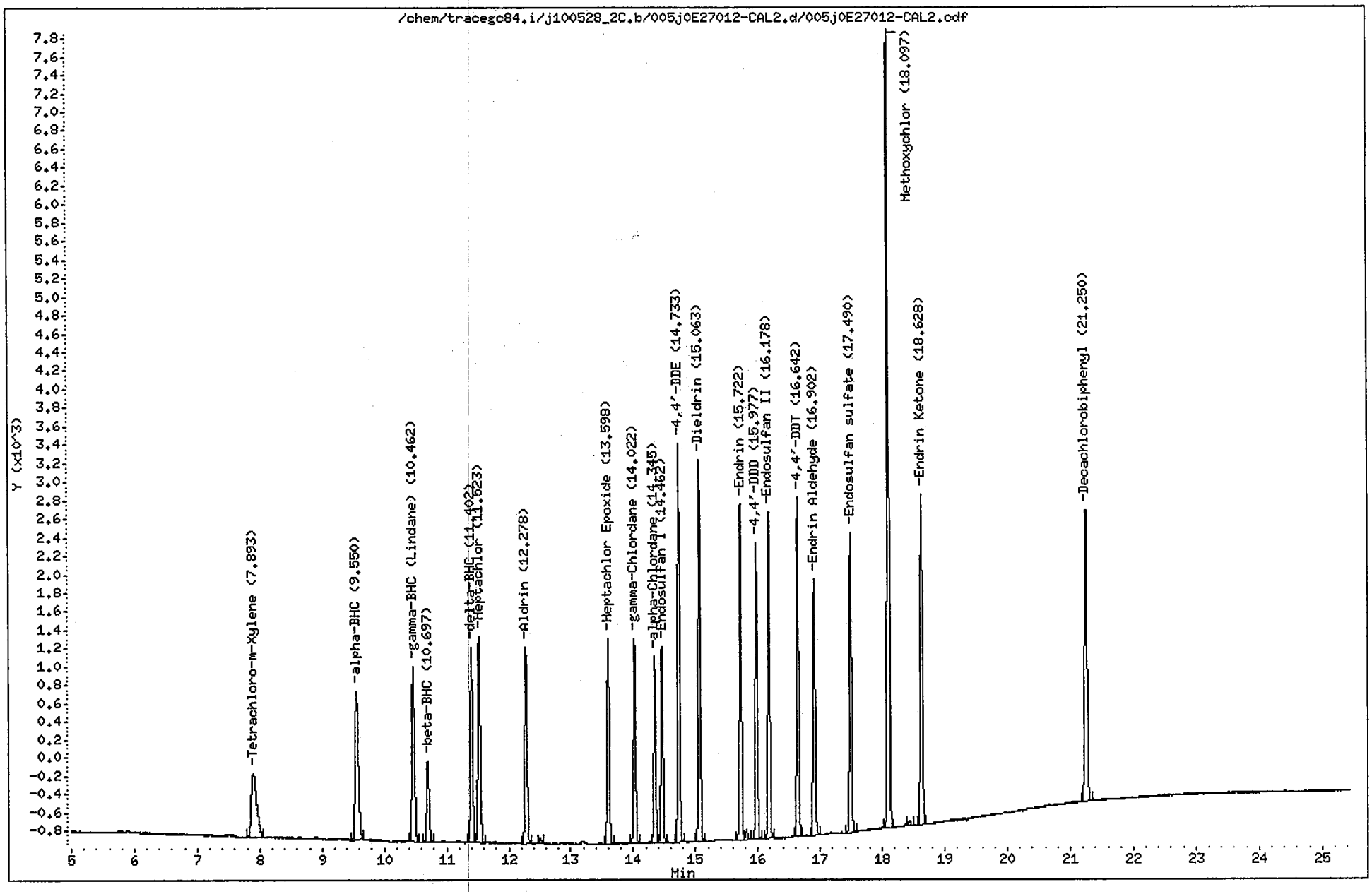
Sample Info: 0E27012-CAL2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL2 Client Smp Id : INDC2HA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 28-MAY-2010 18:47 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC2HA

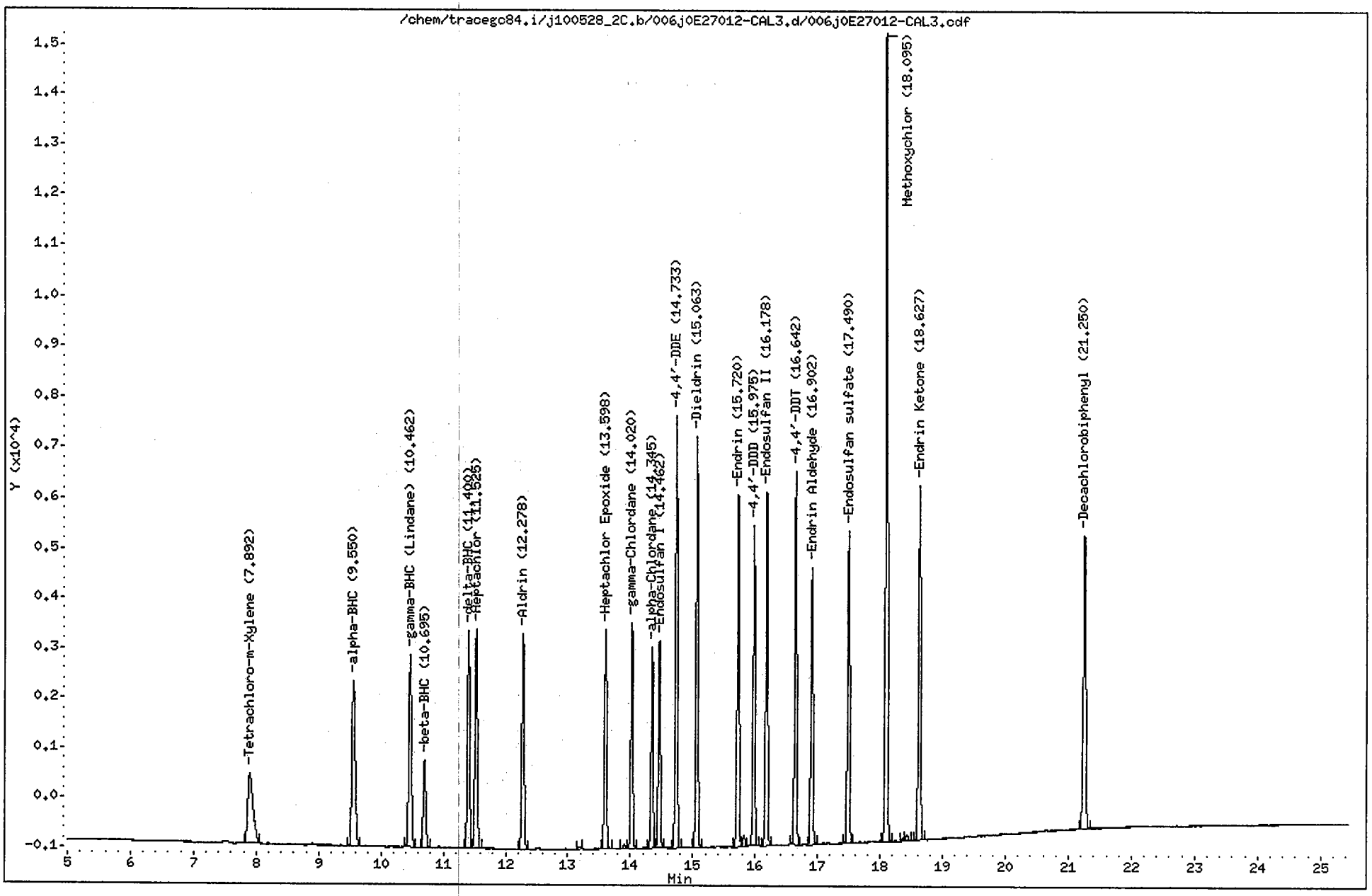
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53			2120					
2.52			304					
7.89	7.82	7.96	4247	416798	Tetrachloro-m-Xylene	0.010000	424600	
9.55	9.48	9.62	5894	607758	alpha-BHC	0.010000	589300	
10.46	10.39	10.53	5716	585542	gamma-BHC (Lindane)	0.010000	571500	
10.70	10.63	10.77	2564	248610	beta-BHC	0.010000	256400	
11.40	11.33	11.47	5349	551235	delta-BHC	0.010000	534800	
11.52	11.45	11.59	5947	579497	Heptachlor	0.010000	594700	
12.28	12.21	12.35	5435	542192	Aldrin	0.010000	543500	
12.50			161					
13.60	13.53	13.67	5194	511912	Heptachlor Epoxide	0.010000	519400	
14.02	13.95	14.09	5210	513150	gamma-Chlordane	0.010000	521000	
14.34	14.28	14.42	4548	446248	alpha-Chlordane	0.010000	454800	
14.46	14.39	14.53	4888	477982	Endosulfan I	0.010000	488700	
14.73	14.66	14.80	9552	468602	4,4'-DDE	0.020000	477550	
15.06	14.99	15.13	9337	461929	Dieldrin	0.020000	466850	
15.72	15.65	15.79	8306	408649	Endrin	0.020000	415300	
15.82			244					
15.98	15.90	16.04	6800	340626	4,4'-DDD	0.020000	340000	
16.18	16.11	16.25	8219	404930	Endosulfan II	0.020000	410950	
16.64	16.57	16.71	8173	405929	4,4'-DDT	0.020000	408650	
16.90	16.83	16.97	6539	316985	Endrin Aldehyde	0.020000	326950	
17.49	17.42	17.56	7594	366674	Endosulfan sulfate	0.020000	379650	
18.10	18.02	18.16	19317	182916	Methoxychlor	0.100000	193160	
18.43			117					
18.63	18.56	18.70	8591	419519	Endrin Ketone	0.020000	429550	
21.25	21.18	21.32	8657	406698	Decachlorobiphenyl	0.020000	432800	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/006j0E27012-CAL3.d
Date : 28-MAY-2010 19:16
Client ID: INDC3HA
Sample Info: 0E27012-CAL3
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL3 Client Smp Id : INDC3HA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 28-MAY-2010 19:16 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			9200					
7.89	7.82	7.96	8217	416798	Tetrachloro-m-Xylene	0.020000	410850	
9.55	9.48	9.62	12016	607758	alpha-BHC	0.020000	600750	
10.46	10.39	10.53	11630	585542	gamma-BHC (Lindane)	0.020000	581500	
10.70	10.63	10.77	4934	248610	beta-BHC	0.020000	246700	
11.40	11.33	11.47	10892	551235	delta-BHC	0.020000	544550	
11.52	11.45	11.59	11696	579497	Heptachlor	0.020000	584800	
12.28	12.21	12.35	10756	542192	Aldrin	0.020000	537750	
13.19			100					
13.60	13.53	13.67	10199	511912	Heptachlor Epoxide	0.020000	509950	
13.90			176					
14.02	13.95	14.09	10171	513150	gamma-Chlordane	0.020000	508500	
14.34	14.28	14.42	8836	446248	alpha-Chlordane	0.020000	441750	
14.46	14.39	14.53	9497	477982	Endosulfan I	0.020000	474850	
14.73	14.66	14.80	18602	468602	4,4'-DDE	0.040000	465050	
15.06	14.99	15.13	18401	461929	Dieldrin	0.040000	460025	
15.72	15.65	15.79	16199	408649	Endrin	0.040000	404950	
15.82			464					
15.98	15.90	16.04	13584	340626	4,4'-DDD	0.040000	339575	
16.18	16.11	16.25	16125	404930	Endosulfan II	0.040000	403100	
16.64	16.57	16.71	16039	405929	4,4'-DDT	0.040000	400975	
16.90	16.83	16.97	12919	316985	Endrin Aldehyde	0.040000	322975	
17.49	17.42	17.56	14549	366674	Endosulfan sulfate	0.040000	363725	
18.10	18.02	18.16	36356	182916	Methoxychlor	0.200000	181780	
18.37			120					
18.44			273					
18.63	18.56	18.70	16766	419519	Endrin Ketone	0.040000	419150	
21.25	21.18	21.32	16045	406698	Decachlorobiphenyl	0.040000	401125	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/007j0E27012-CAL4.d

Date : 28-MAY-2010 19:45

Client ID: INDC4HA

Sample Info: 0E27012-CAL4

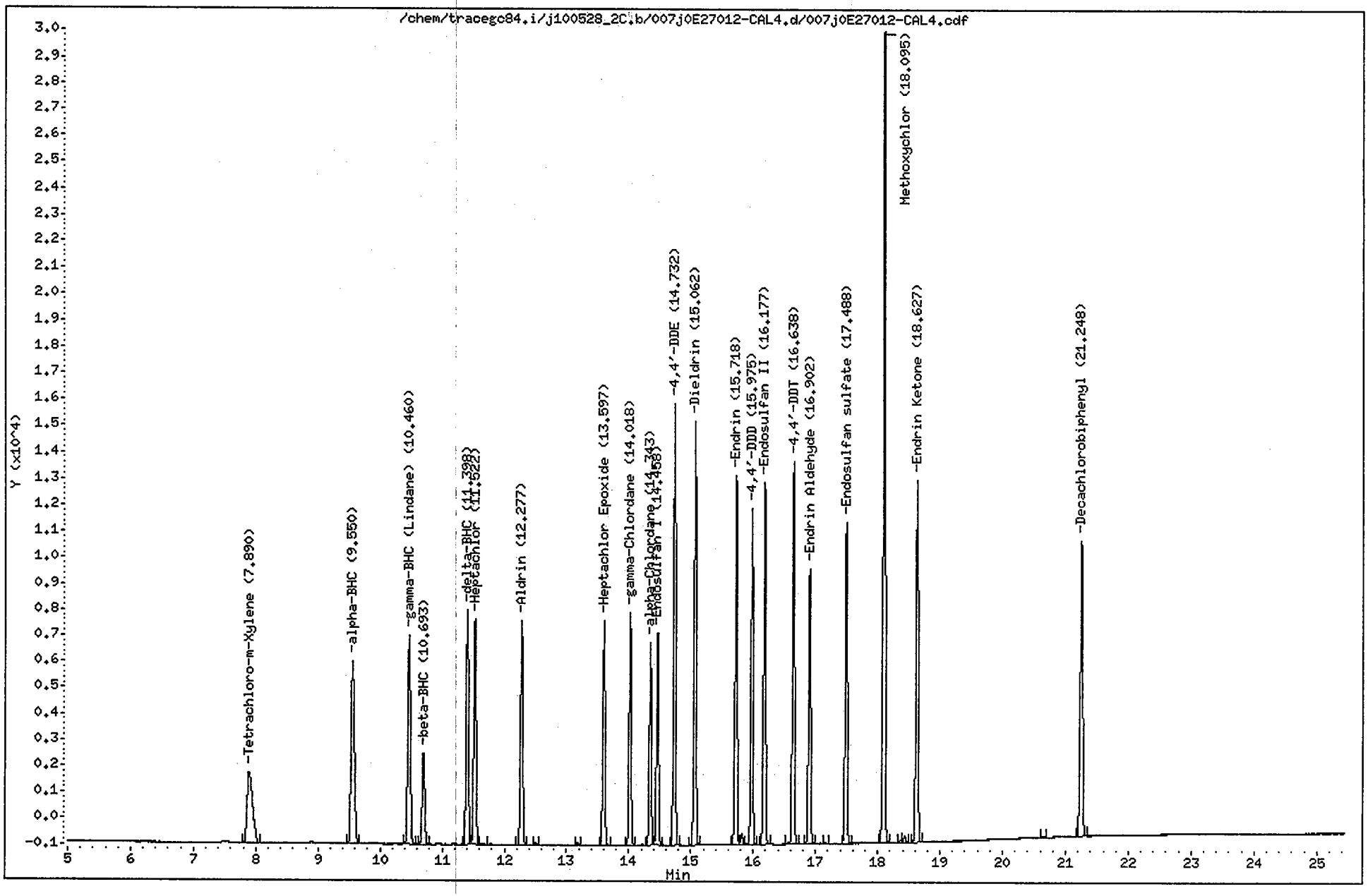
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL4 Client Smp Id : INDC4HA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 28-MAY-2010 19:45 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC4HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53			1592					
1.89			111					
7.89	7.82	7.96	16462	416798	Tetrachloro-m-Xylene	0.040000	411550	
9.55	9.48	9.62	25250	607758	alpha-BHC	0.040000	631250	
10.46	10.39	10.53	24030	585542	gamma-BHC (Lindane)	0.040000	600750	
10.69	10.63	10.77	9831	248610	beta-BHC	0.040000	245775	
11.40	11.33	11.47	22708	551235	delta-BHC	0.040000	567700	
11.52	11.45	11.59	23390	579497	Heptachlor	0.040000	584750	
11.65			96					
12.28	12.21	12.35	21683	542192	Aldrin	0.040000	542075	
12.51			211					
13.18			211					
13.60	13.53	13.67	20154	511912	Heptachlor Epoxide	0.040000	503825	
14.02	13.95	14.09	20242	513150	gamma-Chlordane	0.040000	506025	
14.34	14.28	14.42	17517	446248	alpha-Chlordane	0.040000	437925	
14.46	14.39	14.53	18759	477982	Endosulfan I	0.040000	468950	
14.73	14.66	14.80	36881	468602	4,4'-DDE	0.080000	461000	
15.06	14.99	15.13	36815	461929	Dieldrin	0.080000	460187	
15.72	15.65	15.79	32210	408649	Endrin	0.080000	402613	
15.81			989					
15.90			118					
15.98	15.90	16.04	27530	340626	4,4'-DDD	0.080000	344113	
16.18	16.11	16.25	31797	404930	Endosulfan II	0.080000	397450	
16.64	16.57	16.71	32317	405929	4,4'-DDT	0.080000	403963	
16.90	16.83	16.97	24671	316985	Endrin Aldehyde	0.080000	308375	
17.16			112					
17.49	17.42	17.56	28535	366674	Endosulfan sulfate	0.080000	356675	
18.10	18.02	18.16	69200	182916	Methoxychlor	0.400000	172997	
18.37			235					
18.43			514					
18.63	18.56	18.70	32900	419519	Endrin Ketone	0.080000	411237	
20.65			108					
21.25	21.18	21.32	30128	406698	Decachlorobiphenyl	0.080000	376587	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/008j0E27012-CAL5.d

Date : 28-MAY-2010 20:14

Client ID: INDC5HA

Sample Info: 0E27012-CAL5

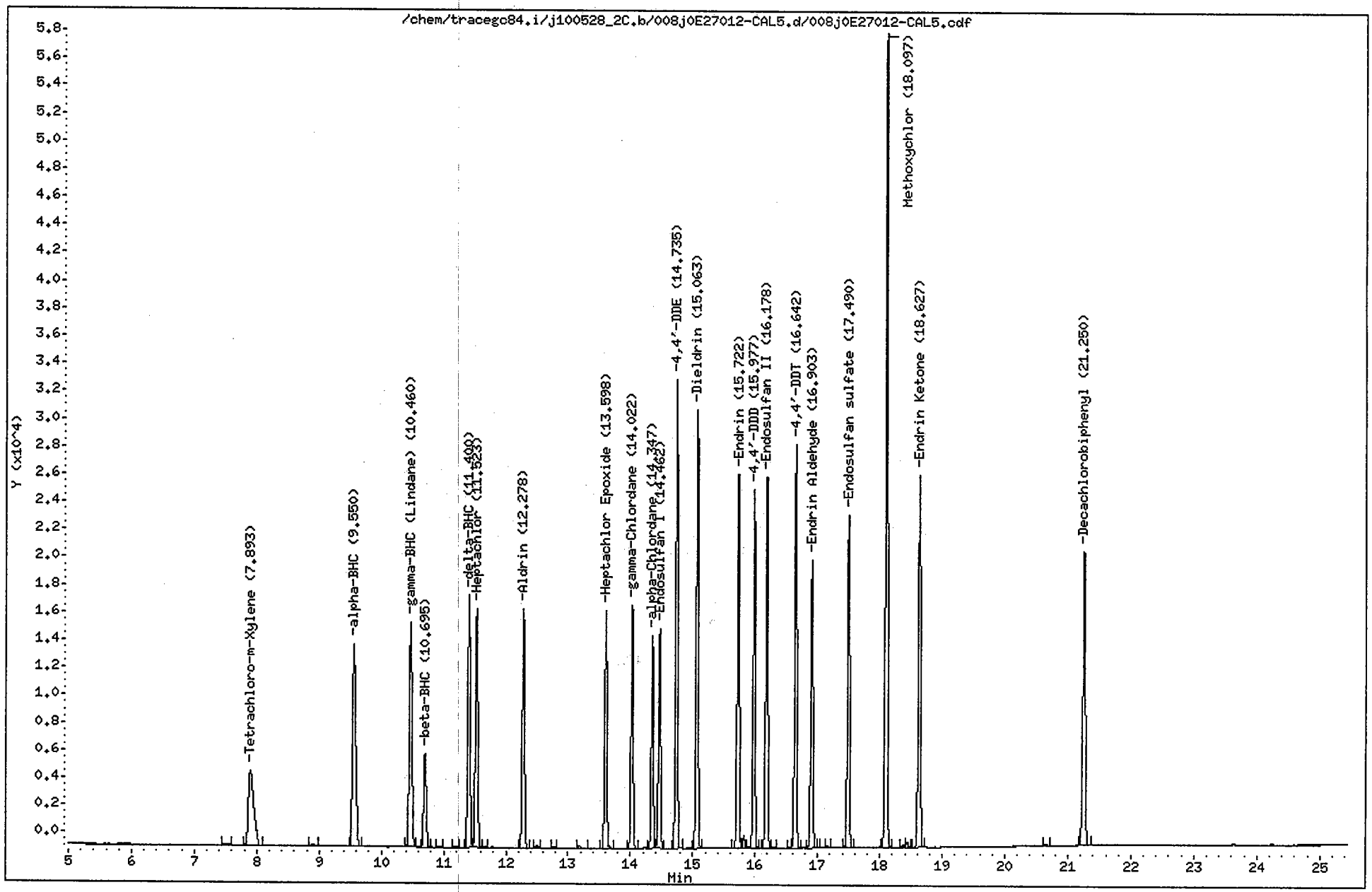
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL5 Client Smp Id : INDC5HA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 28-MAY-2010 20:14 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC5HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54			2486					
2.53			230					
7.51			428					
7.89	7.82	7.96	32623	416798	Tetrachloro-m-Xylene	0.080000	407787	
8.90			328					
9.55	9.48	9.62	52439	607758	alpha-BHC	0.080000	655487	
10.46	10.39	10.53	49213	585542	gamma-BHC (Lindane)	0.080000	615163	
10.70	10.63	10.77	19423	248610	beta-BHC	0.080000	242775	
10.93			190					
11.19			147					
11.40	11.33	11.47	46715	551235	delta-BHC	0.080000	583925	
11.52	11.45	11.59	46688	579497	Heptachlor	0.080000	583600	
11.65			184					
12.28	12.21	12.35	43572	542192	Aldrin	0.080000	544637	
12.50			437					
12.77			133					
13.19			519					
13.60	13.53	13.67	39791	511912	Heptachlor Epoxide	0.080000	497387	
14.02	13.95	14.09	40275	513150	gamma-Chlordane	0.080000	503425	
14.35	14.28	14.42	34653	446248	alpha-Chlordane	0.080000	433163	
14.46	14.39	14.53	36817	477982	Endosulfan I	0.080000	460213	
14.74	14.66	14.80	73122	468602	4,4'-DDE	0.160000	457013	
15.06	14.99	15.13	73085	461929	Dieldrin	0.160000	456781	
15.72	15.65	15.79	63773	408649	Endrin	0.160000	398581	
15.82			1952					
15.91			219					
15.98	15.90	16.04	55335	340626	4,4'-DDD	0.160000	345844	
16.18	16.11	16.25	62585	404930	Endosulfan II	0.160000	391150	
16.30			151					
16.58			211					
16.64	16.57	16.71	64250	405929	4,4'-DDT	0.160000	401556	
16.90	16.83	16.97	48148	316985	Endrin Aldehyde	0.160000	300925	
17.09			129					
17.16			257					
17.49	17.42	17.56	55780	366674	Endosulfan sulfate	0.160000	348619	
18.10	18.02	18.16	131857	182916	Methoxychlor	0.800000	164821	
18.37			461					
18.43			964					
18.63	18.56	18.70	64442	419519	Endrin Ketone	0.160000	402756	
20.65			203					
21.25	21.18	21.32	57117	406698	Decachlorobiphenyl	0.160000	356975	

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/009j0E27012-ARC1.d

Date : 28-MAY-2010 20:43

Client ID: TOXAPH3HA

Sample Info: 0E27012-ARC1

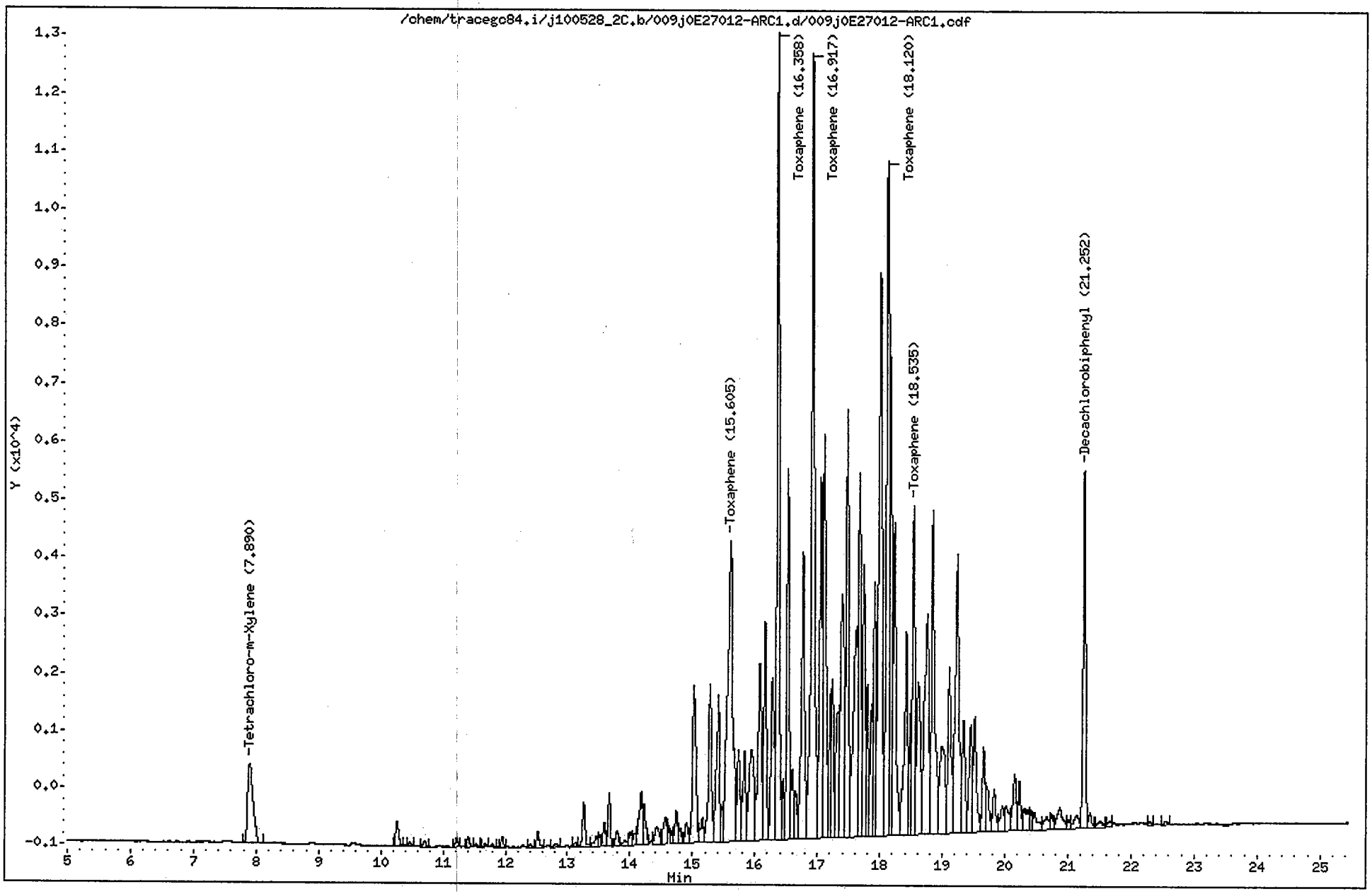
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

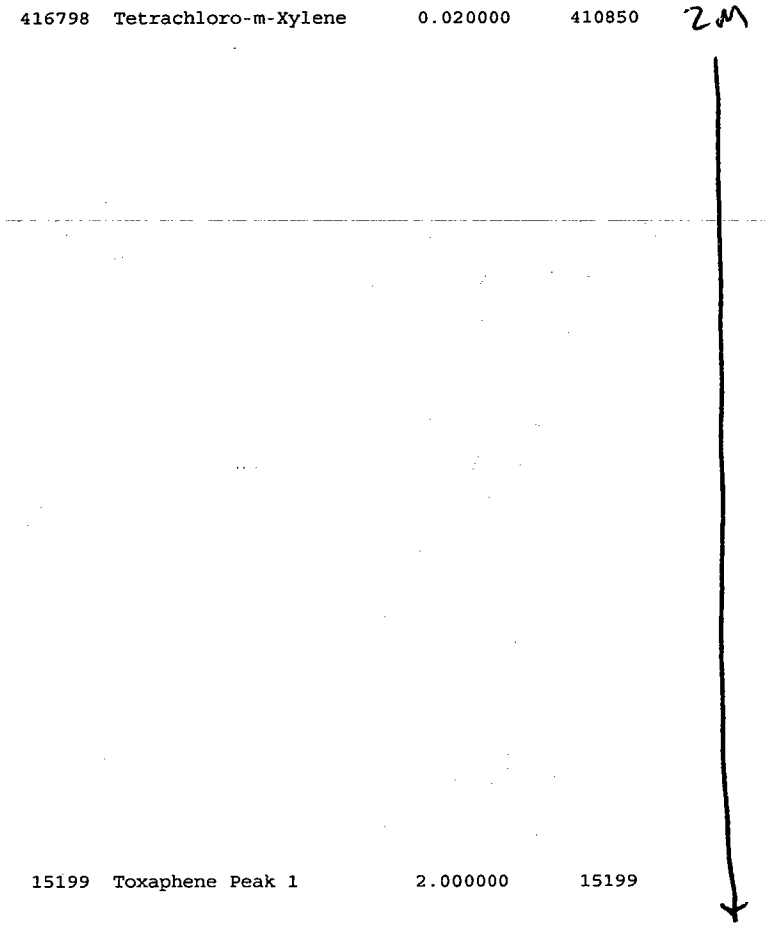
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54		7141					
1.88		103					
7.89	7.82 7.96	8419	416798	Tetrachloro-m-Xylene	0.020000	410850	2M
10.26		1459					
10.46		208					
10.70		299					
11.22		459					
11.40		512					
11.53		145					
11.68		167					
11.80		188					
11.95		441					
12.41		151					
12.52		803					
12.82		207					
13.12		237					
13.26		2432					
13.46		686					
13.51		498					
13.58		1233					
13.67		2283					
13.79		843					
13.93		392					
14.00		788					
14.08		617					
14.18		3565					
14.22		2095					
14.43		1563					
14.57		1798					
14.68		525					
14.74		1804					
14.80		660					
14.90		1187					
15.02		10695					
15.16		1578					
15.28		9239					
15.41		9242					
15.47		1294					
15.60	15.54 15.68	30398	15199	Toxaphene Peak 1	2.000000	15199	
15.73		5274					
15.83		5640					
15.94		9231					



Rev 6/1/10

AHW 6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.07		11864					
16.16		11950					
16.27		9340					
16.36	16.29 16.43	37653	18826	Toxaphene Peak 2	2.000000	18827	
16.45		2790					
16.52		17354					
16.59		3610					
16.65		2401					
16.76		17971					
16.92	16.85 16.99	46567	23283	Toxaphene Peak 3	2.000000	23283	
17.05		17007					
17.10		23225					
17.20		5819					
17.23		6986					
17.32		8912					
17.39		17609					
17.47		20639					
17.62		17534					
17.67		17677					
17.74		12771					
17.79		6644					
17.86		5732					
17.91		11742					
18.00		38256					
18.12	18.05 18.19	38153	19076	Toxaphene Peak 4	2.000000	19077	
18.16		19458					
18.23		17062					
18.42		13115					
18.49		4584					
18.54	18.47 18.61	15591	7795	Toxaphene Peak 5	2.000000	7795.000	
18.61		11386					
18.75		18785					
18.84		19732					
18.99		9439					
19.11		9966					
19.23		20826					
19.34		6962					
19.45		6510					
19.51		6983					
19.66		4758					
19.72		2518					
19.82		2516					

ZM

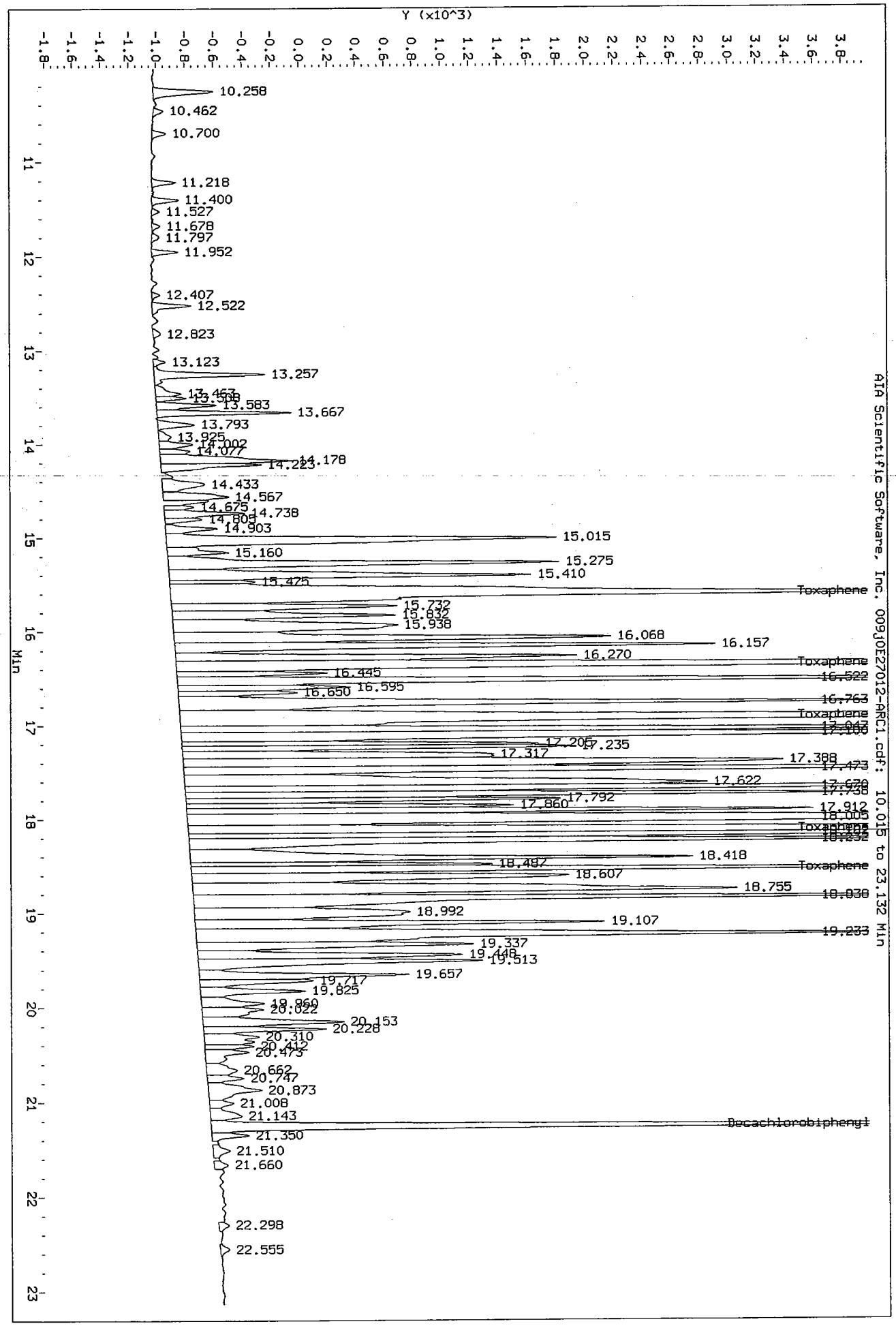
pm 6/1/10

AHW 6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC1 Client Smp Id : TOXAPH3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 28-MAY-2010 20:43 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
19.96		1913					
20.02		2121					
20.15		3656					
20.23		2488					
20.31		2130					
20.41		943					
20.47		1540					
20.66		1218					
20.75		865					
20.87		2317					
21.01		628					
21.14		1203					
21.25	21.18 21.32	17006	406698	Decachlorobiphenyl	0.040000	401125	
21.35		825					
21.51		591					
21.66		386					
22.30		288					
22.55		264					


Data File: /chem/tracegc84.i/j100528_2C.b/009j0E27012-ARC1.d/009j0E27012-ARC1.cdf
Injection Date: 28-MAY-2010 20:43
Instrument: tracegc84.i
Client Sample ID: TOXAPH3HA
Y (x10^3)
Min
AIA Scientific Software, Inc. 009j0E27012-ARC1.cdf: 10.015 to 23.132 Min
10.258
10.462
10.700
11.218
11.400
11.527
11.678
11.797
11.952
12.407
12.522
12.823
13.123
13.257
13.667
13.793
14.178
14.223
14.433
14.567
14.738
14.903
15.015
15.160
15.275
15.410
15.425
Toxaphene
15.732
15.832
15.938
16.068
16.157
16.270
Toxaphene
16.445
16.522
16.595
16.650
16.763
Toxaphene
17.205
17.235
17.317
17.388
17.622
17.792
17.860
17.912
18.005
Toxaphene
18.418
18.487
Toxaphene
18.607
18.755
18.992
19.107
19.233
19.337
19.513
19.657
19.717
19.825
20.022
20.153
20.228
20.310
20.412
20.473
20.662
20.747
20.873
21.008
21.143
Decachlorobiphenyl
21.350
21.510
21.660
22.298
22.555

Data File: /chem/tracegc84.i/j100528_2C.b/010j0E27012-ARC2.d

Date : 28-MAY-2010 21:11

Client ID: CHLORO3HA

Instrument: tracegc84.i

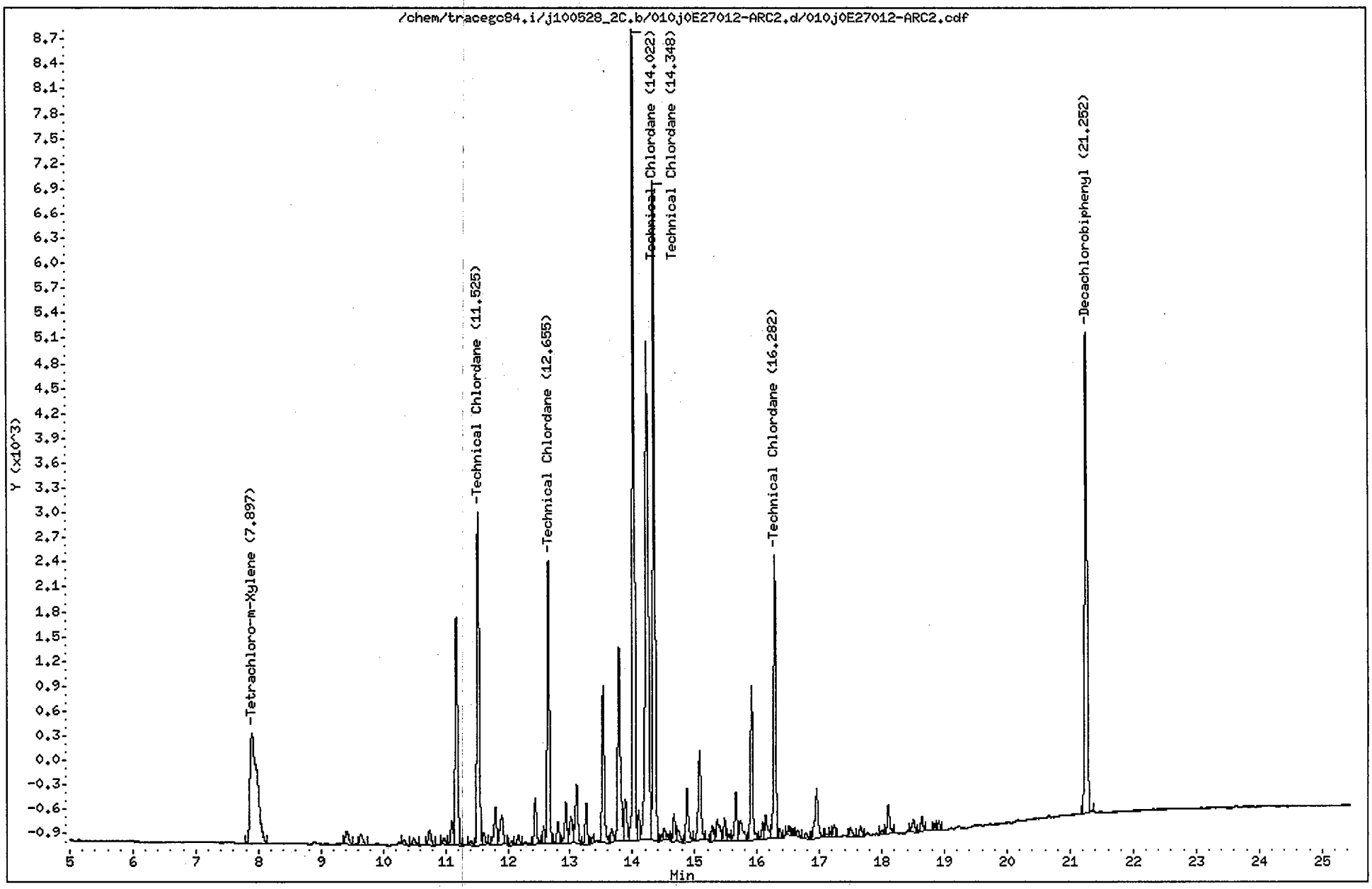
Sample Info: 0E27012-ARC2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 28-MAY-2010 21:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52		1208					
7.90	7.82 7.96	10799	416798	Tetrachloro-m-Xylene	0.020000	410850	
9.41		627					
9.63		460					
10.33		192					
10.49		291					
10.74		612					
10.98		235					
11.10		779					
11.18		7819					
11.40		188					
11.52	11.46 11.60	10759	26895	TechnicalChlordane Peak 1	0.400000	26895	
11.62		380					
11.80		1393					
11.90		1280					
12.06		152					
12.17		354					
12.44		1488					
12.58		530					
12.66	12.58 12.72	8347	20865	TechnicalChlordane Peak 2	0.400000	20865	
12.80		718					
12.93		1360					
13.02		1016					
13.11		2155					
13.26		1194					
13.36		184					
13.53		4593					
13.67		449					
13.78		6784					
13.89		1588					
14.02	13.95 14.09	23201	58000	TechnicalChlordane Peak 3	0.400000	58000	
14.10		804					
14.23		20520					
14.35	14.28 14.42	19246	48115	TechnicalChlordane Peak 4	0.400000	48115	
14.47		140					
14.52		390					
14.66		840					
14.73		531					
14.87		1756					
15.08		3297					
15.28		531					
15.36		1061					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC2 Client Smp Id : CHLORO3HA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 28-MAY-2010 21:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.47		663					
15.55		232					
15.65		1543					
15.73		1046					
15.91		4569					
16.09		479					
16.14		918					
16.28	16.21 16.35	8118	20295	TechnicalChlordane Peak 5	0.400000	20295	
16.36		246					
16.51		238					
16.57		147					
16.65		231					
16.78		238					
16.95		2088					
17.11		108					
17.18		157					
17.24		376					
17.49		360					
17.66		357					
18.00		156					
18.10		1006					
18.50		496					
18.64		491					
18.84		214					
18.91		270					
21.25	21.18 21.32	15618	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/011j0E27012-CAL6.d

Date : 28-MAY-2010 21:40

Client ID: AR16601HA

Instrument: tracegc84.i

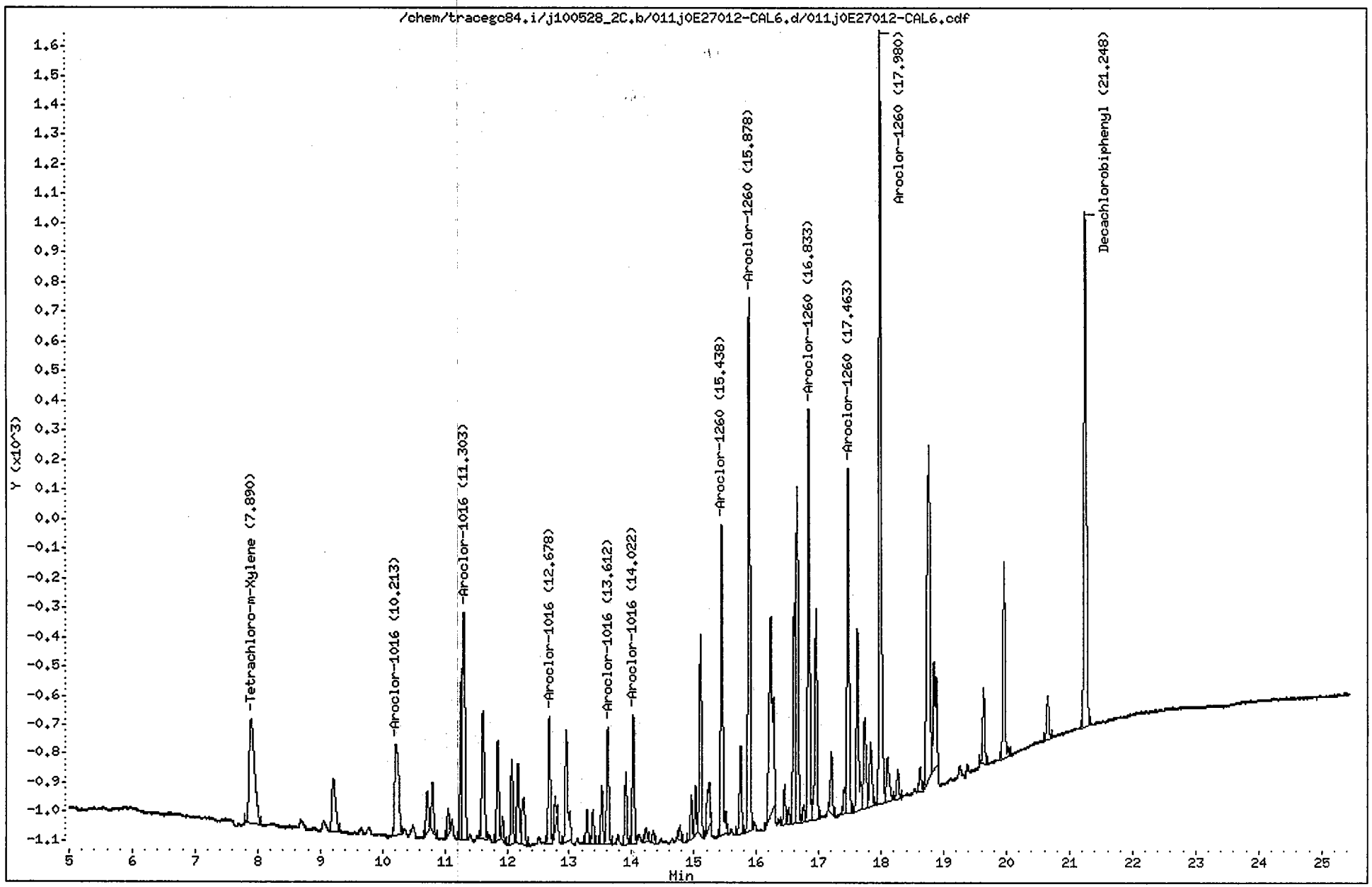
Sample Info: 0E27012-CAL6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 28-MAY-2010 21:40 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16601HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54			5903					
2.52			95					
7.89	7.82	7.96	2127	416798	Tetrachloro-m-Xylene	0.005000	429200	
9.21			739					
10.21	10.15	10.29	1416	12953	Aroclor-1016 Peak 1	0.100000	14160	
10.72			357					
10.80			453					
11.05			191					
11.27			1078					
11.30	11.24	11.38	2281	19854	Aroclor-1016 Peak 2	0.100000	22810	
11.61			1266					
11.85			807					
11.93			172					
12.07			680					
12.17			716					
12.27			559					
12.68	12.61	12.75	1029	9041	Aroclor-1016 Peak 3	0.100000	10280	
12.77			225					
12.95			1134					
13.28			274					
13.37			255					
13.52			442					
13.61	13.55	13.69	959	8370	Aroclor-1016 Peak 4	0.100000	9590.000	
13.90			548					
14.02	13.96	14.10	995	7947	Aroclor-1016 Peak 5	0.100000	9950.000	
14.23			122					
14.34			101					
14.78			121					
14.95			306					
15.02			339					
15.10			1508					
15.21			533					
15.44	15.37	15.51	2507	21225	Aroclor-1260 Peak 1	0.100000	25070	
15.74			718					
15.88	15.81	15.95	4092	36050	Aroclor-1260 Peak 2	0.100000	40920	
16.23			2808					
16.45			292					
16.52			114					
16.60			1681					
16.64			2978					
16.75			124					
16.83	16.77	16.91	3170	28288	Aroclor-1260 Peak 3	0.100000	31690	

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-CAL6 Client Smp Id : AR16601HA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 28-MAY-2010 21:40 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16601HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.95		1715					
17.20		482					
17.41		180					
17.46	17.39 17.53	2764	23788	Aroclor-1260 Peak 4	0.100000	27640	
17.61		1601					
17.73		912					
17.82		581					
17.98	17.91 18.05	6255	56438	Aroclor-1260 Peak 5	0.100000	62550	
18.10		488					
18.27		243					
18.62		191					
18.76		3996					
18.84		1325					
19.64		598					
19.95		1582					
20.65		370					
21.25	21.18 21.32	4742	406698	Decachlorobiphenyl	0.010000	466000	

Data File: /chem/tracegc84.i/j100528_2C.b/012j0E27012-CAL7.d

Date : 28-MAY-2010 22:10

Client ID: AR16602HA

Sample Info: 0E27012-CAL7

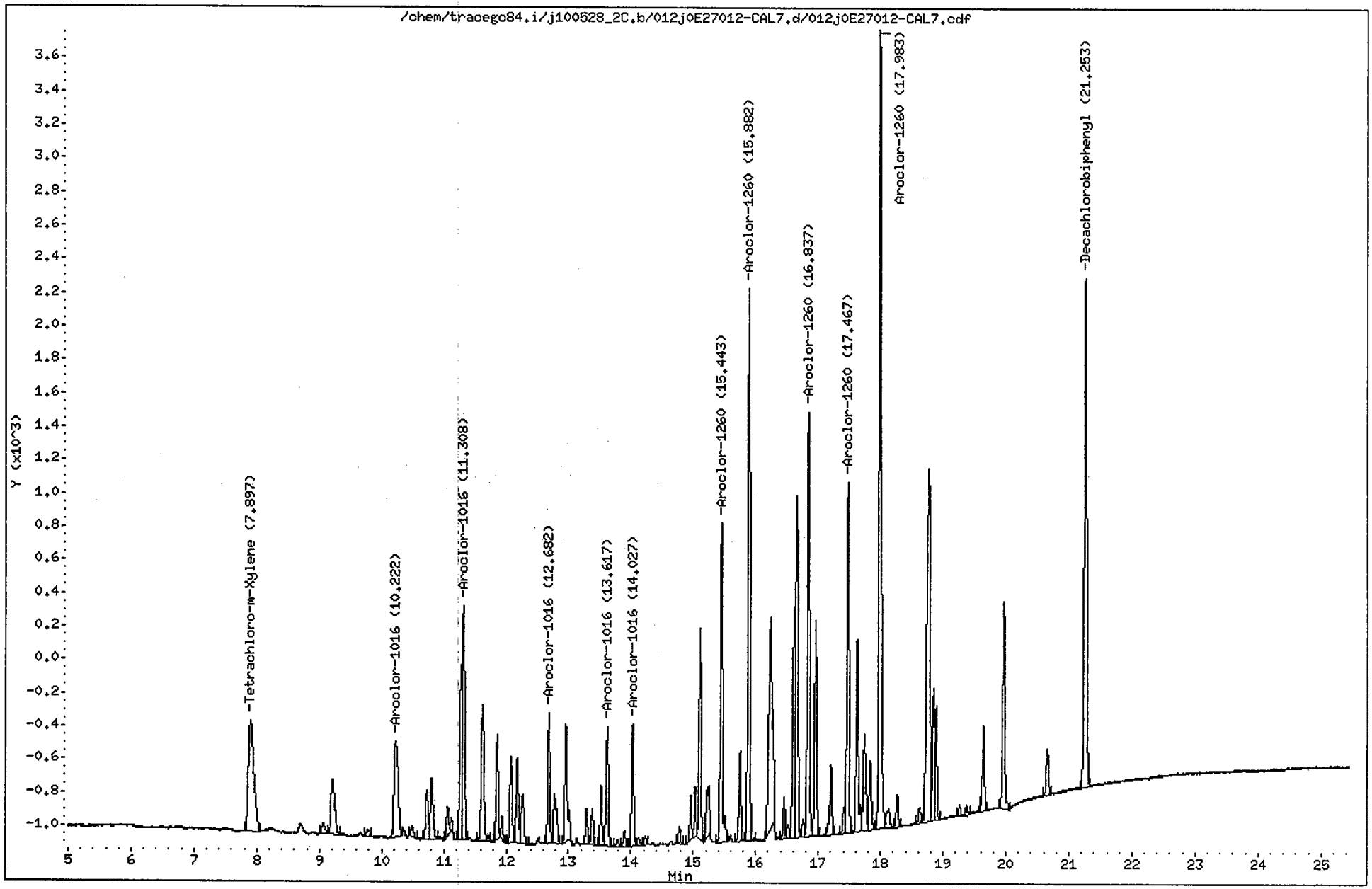
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 28-MAY-2010 22:10 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16602HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53		5197					
7.90	7.82 7.96	3976	416798	Tetrachloro-m-Xylene	0.010000	424600	
9.06		255					
9.21		1421					
9.78		135					
10.22	10.15 10.29	2618	12953	Aroclor-1016 Peak 1	0.200000	13090	
10.49		218					
10.72		833					
10.80		1107					
11.06		575					
11.27		2129					
11.31	11.24 11.38	4044	19854	Aroclor-1016 Peak 2	0.200000	20215	
11.62		2472					
11.85		1498					
11.93		307					
12.08		1245					
12.18		1317					
12.27		1013					
12.68	12.61 12.75	1838	9041	Aroclor-1016 Peak 3	0.200000	9185.000	
12.78		1063					
12.95		2069					
13.29		484					
13.38		482					
13.52		827					
13.62	13.55 13.69	1742	8370	Aroclor-1016 Peak 4	0.200000	8705.000	
13.79		98					
13.90		231					
14.03	13.96 14.10	1634	7947	Aroclor-1016 Peak 5	0.200000	8165.000	
14.12		140					
14.23		108					
14.78		237					
14.96		572					
15.03		616					
15.10		2759					
15.22		1149					
15.44	15.37 15.51	4680	21225	Aroclor-1260 Peak 1	0.200000	23395	
15.75		1262					
15.88	15.81 15.95	7408	36050	Aroclor-1260 Peak 2	0.200000	37035	
16.23		5252					
16.45		565					
16.52		175					
16.61		3146					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-CAL7 Client Smp Id : AR16602HA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 28-MAY-2010 22:10 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16602HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.65		5306					
16.76		234					
16.84	16.77 16.91	5837	28288	Aroclor-1260 Peak 3	0.200000	29185	
16.95		2954					
17.20		1072					
17.41		323					
17.47	17.39 17.53	4892	23788	Aroclor-1260 Peak 4	0.200000	24460	
17.62		2895					
17.73		1686					
17.83		1098					
17.98	17.91 18.05	11448	56438	Aroclor-1260 Peak 5	0.200000	57240	
18.13		425					
18.27		437					
18.63		228					
18.76		7729					
18.84		1751					
18.88		1479					
19.26		176					
19.38		125					
19.64		1202					
19.96		2994					
20.66		668					
21.25	21.18 21.32	8163	406698	Decachlorobiphenyl	0.020000	432800	

Data File: /chem/tracegc84.i/j100528_2C.b/013j0E27012-CAL8.d

Date : 28-MAY-2010 22:38

Client ID: AR16603HA

Instrument: tracegc84.i

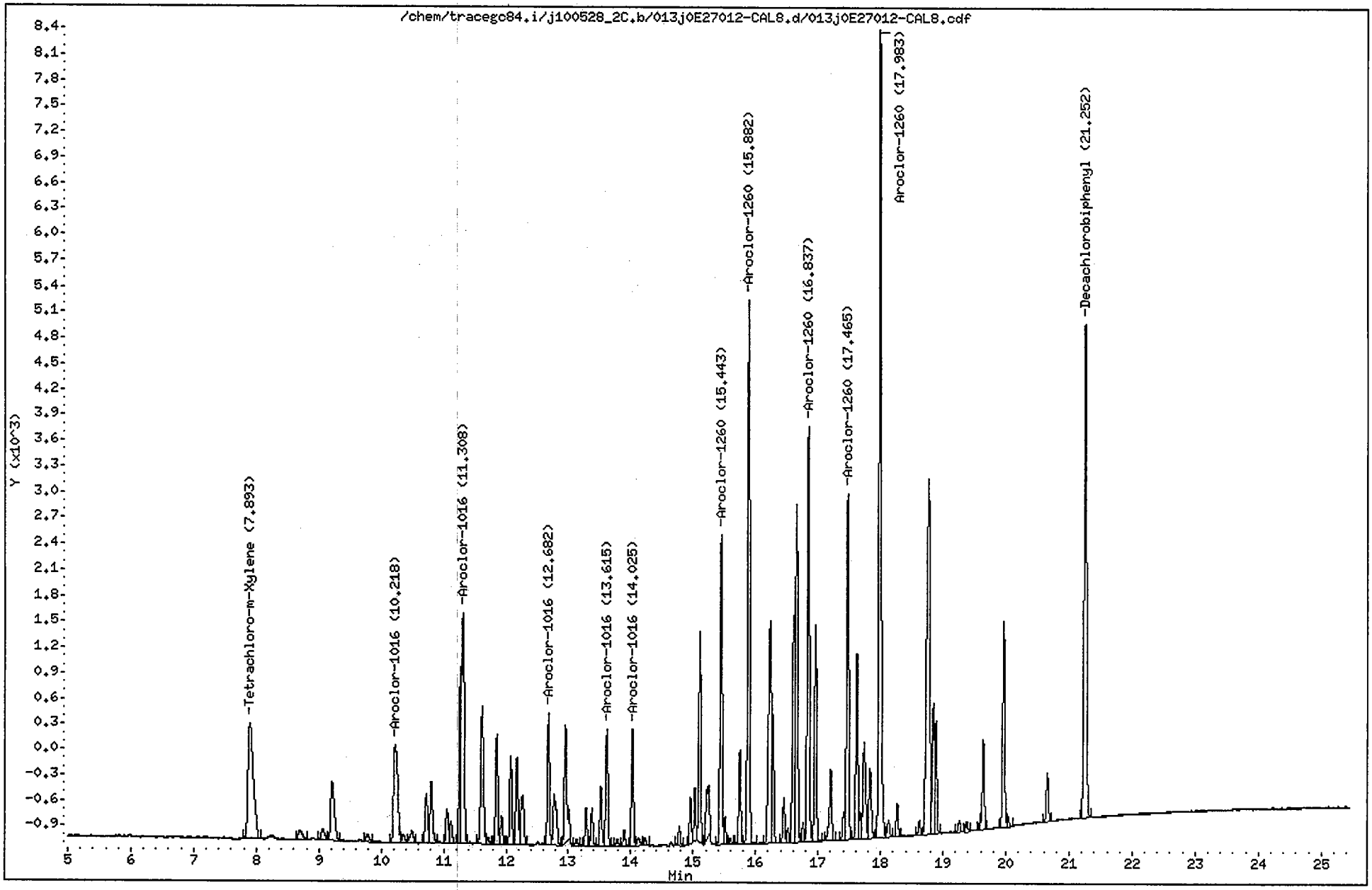
Sample Info: 0E27012-CAL8

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 28-MAY-2010 22:38 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			12610					
1.78			3220					
1.95			20961					
2.50			93					
7.89	7.82	7.96	8081	416798	Tetrachloro-m-Xylene	0.020000	410850	
8.69			535					
9.06			530					
9.21			2824					
9.78			314					
10.22	10.15	10.29	5286	12953	Aroclor-1016 Peak 1	0.400000	13213	
10.35			291					
10.49			540					
10.72			1664					
10.80			2191					
11.06			1058					
11.12			701					
11.27			4122					
11.31	11.24	11.38	7858	19854	Aroclor-1016 Peak 2	0.400000	19645	
11.62			4885					
11.71			188					
11.85			3237					
11.93			839					
12.08			2525					
12.17			2698					
12.27			2072					
12.68	12.61	12.75	3641	9041	Aroclor-1016 Peak 3	0.400000	9102.500	
12.77			2207					
12.95			4014					
13.13			182					
13.29			1026					
13.38			994					
13.52			1618					
13.62	13.55	13.69	3368	8370	Aroclor-1016 Peak 4	0.400000	8417.500	
13.78			183					
13.89			443					
14.02	13.96	14.10	3112	7947	Aroclor-1016 Peak 5	0.400000	7780.000	
14.12			296					
14.23			207					
14.78			512					
14.96			1176					
15.03			1288					
15.10			5373					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-CAL8 Client Smp Id : AR16603HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 28-MAY-2010 22:38 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.22		2220					
15.44	15.37 15.51	8271	21225	Aroclor-1260 Peak 1	0.400000	20677	
15.51		684					
15.60		156					
15.74		2506					
15.88	15.81 15.95	14416	36050	Aroclor-1260 Peak 2	0.400000	36037	
16.23		8284					
16.27		3057					
16.45		1181					
16.52		364					
16.60		6302					
16.65		10109					
16.75		487					
16.84	16.77 16.91	11338	28288	Aroclor-1260 Peak 3	0.400000	28345	
16.95		5687					
17.20		2189					
17.41		626					
17.46	17.39 17.53	9484	23788	Aroclor-1260 Peak 4	0.400000	23710	
17.62		5073					
17.68		635					
17.73		3357					
17.83		2191					
17.98	17.91 18.05	22538	56438	Aroclor-1260 Peak 5	0.400000	56345	
18.13		555					
18.27		862					
18.62		374					
18.76		15093					
18.84		3468					
18.88		2867					
19.26		308					
19.38		258					
19.59		172					
19.64		2404					
19.96		5609					
20.04		270					
20.66		1346					
21.25	21.18 21.32	15513	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/014j0E27012-CAL9.d

Date : 28-MAY-2010 23:07

Client ID: AR16604HA

Sample Info: 0E27012-CAL9

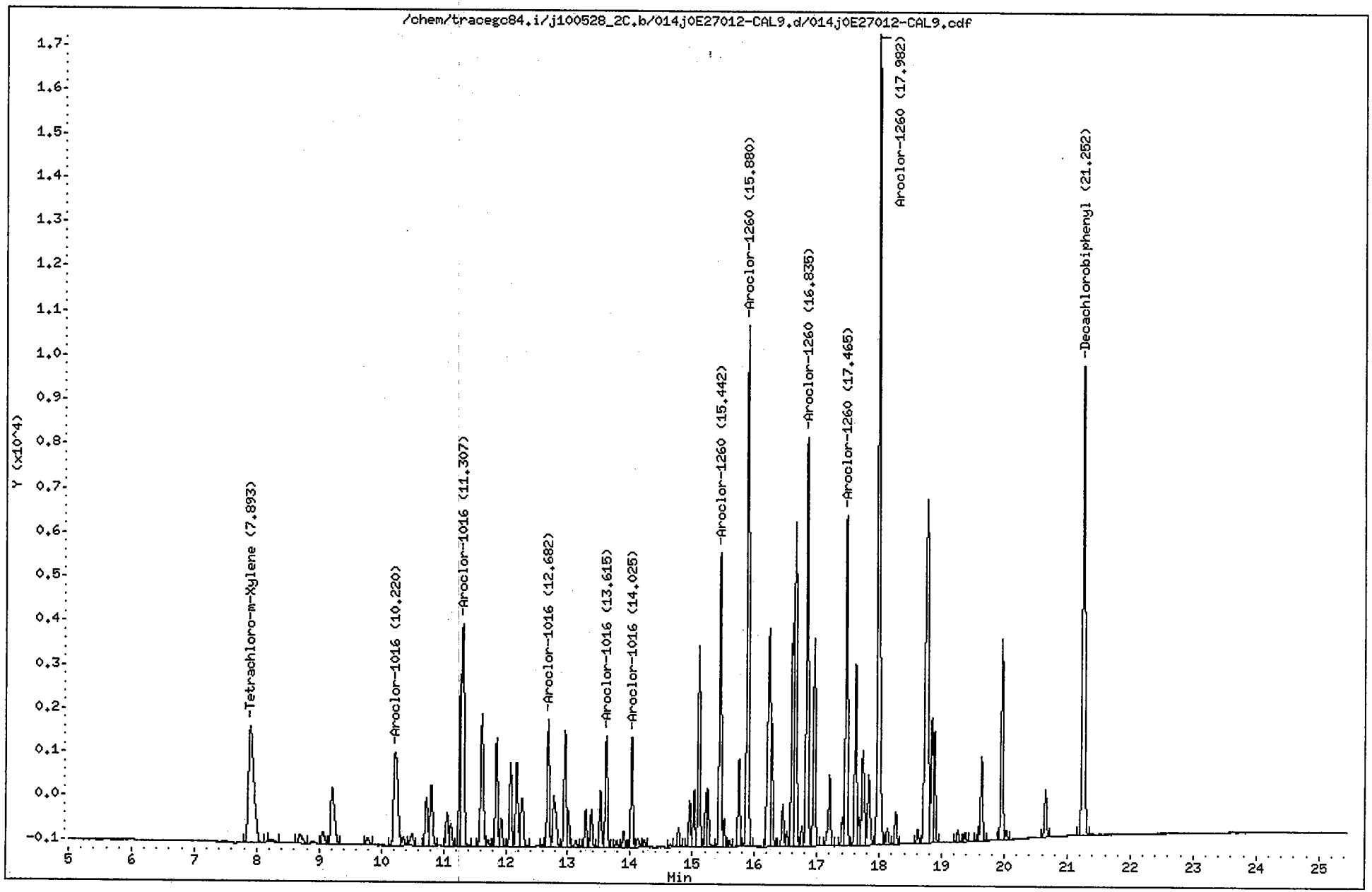
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 28-MAY-2010 23:07 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16604HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53			4994					
7.89	7.82	7.96	15839	416798	Tetrachloro-m-Xylene	0.040000	411550	
8.23			272					
8.69			995					
9.05			1016					
9.21			5387					
9.78			621					
10.22	10.15	10.29	10044	12953	Aroclor-1016 Peak 1	0.800000	12554	
10.35			547					
10.49			1064					
10.72			3233					
10.80			4240					
11.05			2022					
11.12			1384					
11.27			7432					
11.31	11.24	11.38	15161	19854	Aroclor-1016 Peak 2	0.800000	18951	
11.62			9210					
11.72			375					
11.85			6185					
11.93			1626					
12.08			4717					
12.17			5070					
12.26			3950					
12.59			100					
12.68	12.61	12.75	6879	9041	Aroclor-1016 Peak 3	0.800000	8597.500	
12.77			4237					
12.95			6753					
13.01			1772					
13.13			376					
13.29			1978					
13.38			1906					
13.52			3045					
13.62	13.55	13.69	6287	8370	Aroclor-1016 Peak 4	0.800000	7857.500	
13.78			319					
13.89			853					
14.02	13.96	14.10	5749	7947	Aroclor-1016 Peak 5	0.800000	7186.250	
14.12			568					
14.22			371					
14.65			184					
14.78			998					
14.95			2438					
15.03			2859					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-CAL9 Client Smp Id : AR16604HA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 28-MAY-2010 23:07 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16604HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.10		10433					
15.21		2434					
15.24		2845					
15.44	15.37 15.51	15282	21225	Aroclor-1260 Peak 1	0.800000	19101	
15.51		1320					
15.59		289					
15.74		4660					
15.88	15.81 15.95	27134	36050	Aroclor-1260 Peak 2	0.800000	33916	
16.23		15431					
16.27		5739					
16.45		2259					
16.52		702					
16.60		11778					
16.65		19088					
16.75		967					
16.84	16.77 16.91	21389	28288	Aroclor-1260 Peak 3	0.800000	26736	
16.95		10710					
17.20		4226					
17.41		1265					
17.46	17.39 17.53	17730	23788	Aroclor-1260 Peak 4	0.800000	22163	
17.61		9532					
17.67		1248					
17.73		6461					
17.83		4295					
17.98	17.91 18.05	43151	56438	Aroclor-1260 Peak 5	0.800000	53937	
18.13		931					
18.26		1679					
18.62		696					
18.76		28579					
18.84		6575					
18.88		5525					
19.25		570					
19.37		496					
19.58		346					
19.64		4607					
19.96		10525					
20.03		479					
20.66		2580					
21.25	21.18 21.32	28729	406698	Decachlorobiphenyl	0.080000	376587	

Data File: /chem/tracegc84.i/j100528_2C.b/015j0E27012-CALA.d

Date : 28-MAY-2010 23:36

Client ID: AR16605HA

Sample Info: 0E27012-CALA

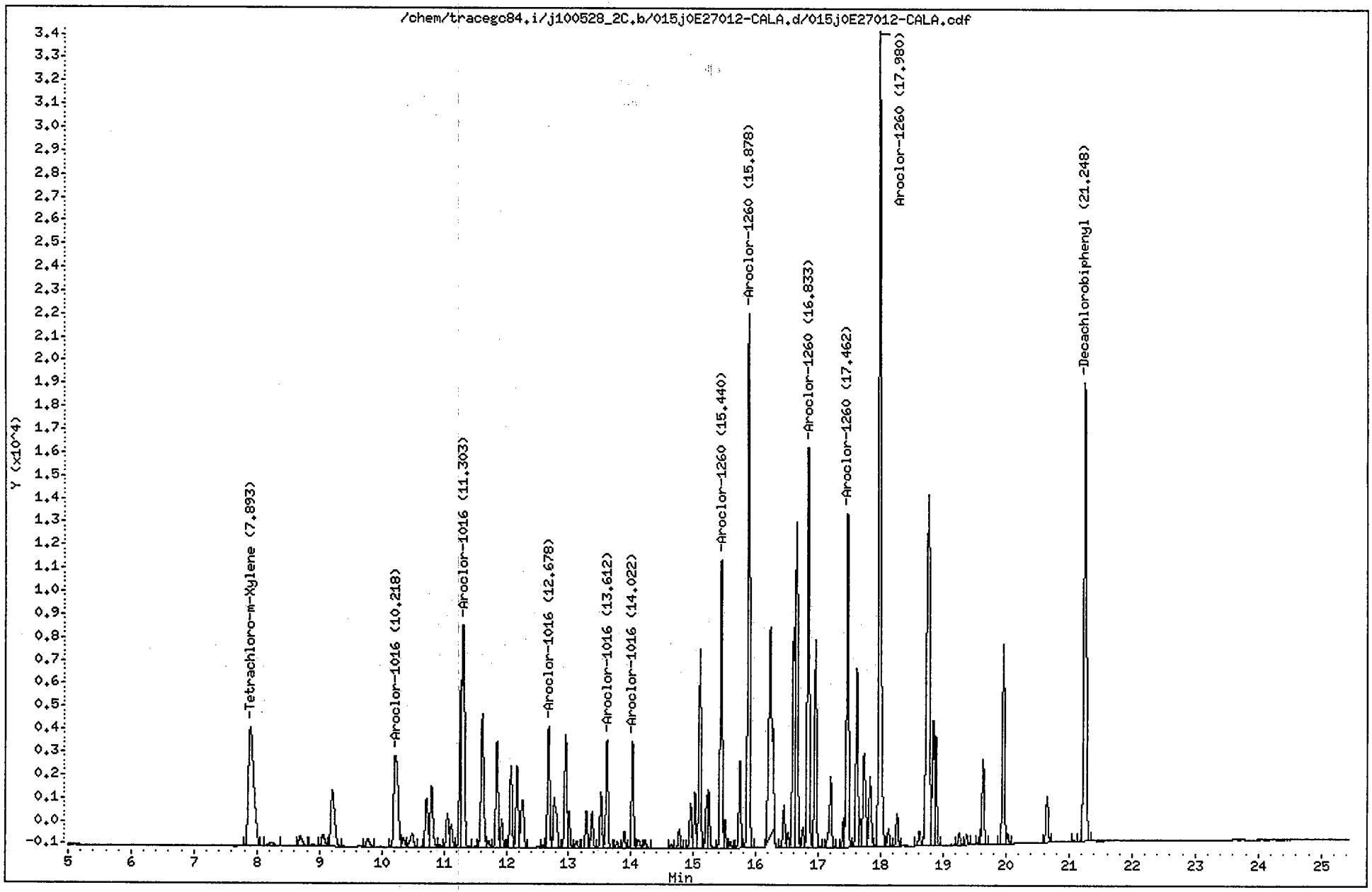
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-CALA
Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5
Sublist : AR1660
Inj Date : 28-MAY-2010 23:36
Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16605HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.52			1355					
7.89	7.82	7.96	30940	416798	Tetrachloro-m-Xylene	0.080000	407787	
8.23			1051					
8.69			1767					
8.90			350					
9.06			2080					
9.21			10426					
9.77			1198					
10.22	10.15	10.29	18798	12953	Aroclor-1016 Peak 1	1.600000	11748	
10.35			1187					
10.49			2201					
10.72			6102					
10.80			8090					
10.93			227					
11.05			3890					
11.12			2691					
11.27			14341					
11.30	11.24	11.38	28234	19854	Aroclor-1016 Peak 2	1.600000	17646	
11.61			17271					
11.71			726					
11.85			11729					
11.93			3081					
12.07			8751					
12.17			9431					
12.26			7408					
12.59			203					
12.68	12.61	12.75	12863	9041	Aroclor-1016 Peak 3	1.600000	8038.750	
12.77			7988					
12.95			12609					
13.00			3437					
13.13			691					
13.28			3830					
13.37			3670					
13.52			5712					
13.61	13.55	13.69	11647	8370	Aroclor-1016 Peak 4	1.600000	7278.750	
13.78			630					
13.89			1620					
14.02	13.96	14.10	10650	7947	Aroclor-1016 Peak 5	1.600000	6655.625	
14.12			1194					
14.22			866					
14.64			342					
14.77			1880					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-CALA Client Smp Id : AR16605HA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 28-MAY-2010 23:36 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR16605HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.95		4536					
15.02		5425					
15.10		19561					
15.21		4711					
15.24		5270					
15.44	15.37 15.51	28608	21225	Aroclor-1260 Peak 1	1.600000	17880	
15.50		2566					
15.59		606					
15.74		8752					
15.88	15.81 15.95	51744	36050	Aroclor-1260 Peak 2	1.600000	32339	
16.23		35706					
16.45		4307					
16.51		1357					
16.60		22407					
16.65		36104					
16.75		1891					
16.83	16.77 16.91	40779	28288	Aroclor-1260 Peak 3	1.600000	25486	
16.95		20286					
17.20		8137					
17.40		2343					
17.46	17.39 17.53	33551	23788	Aroclor-1260 Peak 4	1.600000	20969	
17.61		17934					
17.67		2288					
17.73		12332					
17.82		8217					
17.98	17.91 18.05	83385	56438	Aroclor-1260 Peak 5	1.600000	52116	
18.13		1774					
18.26		3228					
18.62		1358					
18.76		54383					
18.84		12266					
18.87		10642					
19.25		1188					
19.37		953					
19.58		647					
19.63		8766					
19.95		20067					
20.03		923					
20.65		4921					
21.08		90					
21.25	21.18 21.32	53941	406698	Decachlorobiphenyl	0.160000	356975	

Data File: /chem/tracegc84.i/j100528_2C.b/016j0E27012-ARC3.d

Date : 29-MAY-2010 00:05

Client ID: AR12213HA

Sample Info: 0E27012-ARC3

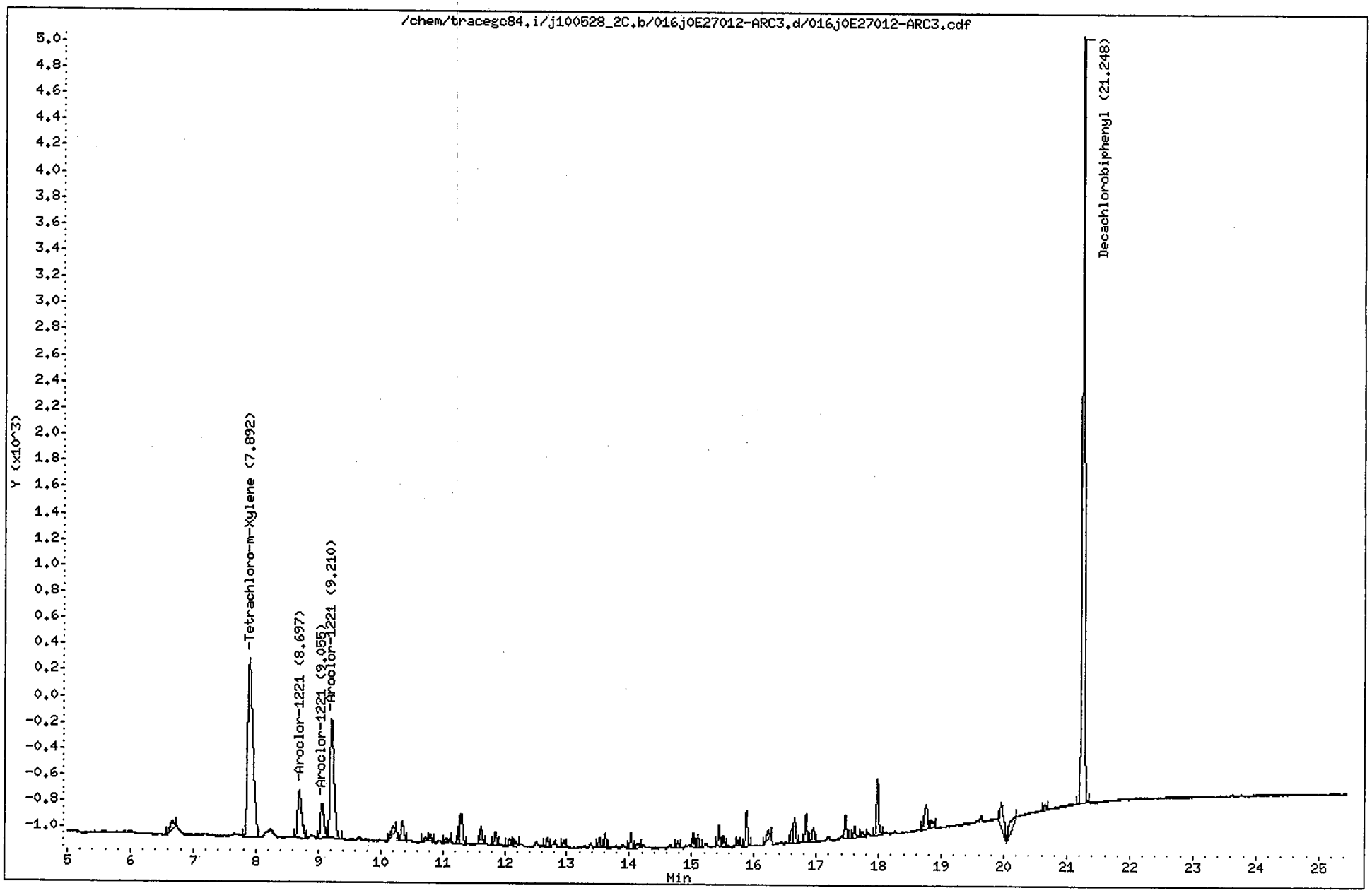
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC3 Client Smp Id : AR12213HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 29-MAY-2010 00:05 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12213HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			46457					
6.67			285					
7.89	7.82	7.96	8094	416798	Tetrachloro-m-Xylene	0.020000	410850	
8.70	8.63	8.77	1669	4170	Aroclor-1221 Peak 2	0.400000	4170.000	
9.06	8.98	9.12	1080	2700	Aroclor-1221 Peak 3	0.400000	2700.000	
9.21	9.14	9.28	4116	10288	Aroclor-1221 Peak 4	0.400000	10287	
10.20			230					
10.35			467					
10.72			97					
10.80			139					
11.06			138					
11.27			303					
11.31			680					
11.62			394					
11.85			255					
12.07			137					
12.17			97					
12.68			173					
12.96			129					
13.52			156					
13.62			273					
14.03			277					
14.12			135					
14.78			106					
15.03			221					
15.10			208					
15.44			350					
15.51			178					
15.74			109					
15.88			612					
16.23			225					
16.60			241					
16.65			516					
16.84			492					
16.95			301					
17.46			396					
17.61			248					
17.73			133					
17.98			1018					
18.75			645					
18.84			227					
19.96			871					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC3 Client Smp Id : AR12213HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 29-MAY-2010 00:05 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12213HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
20.19			553					
20.66			118					
21.25	21.18	21.32	15857	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/017j0E27012-ARC4.d

Date : 29-MAY-2010 00:34

Client ID: AR12323HA

Sample Info: 0E27012-ARC4

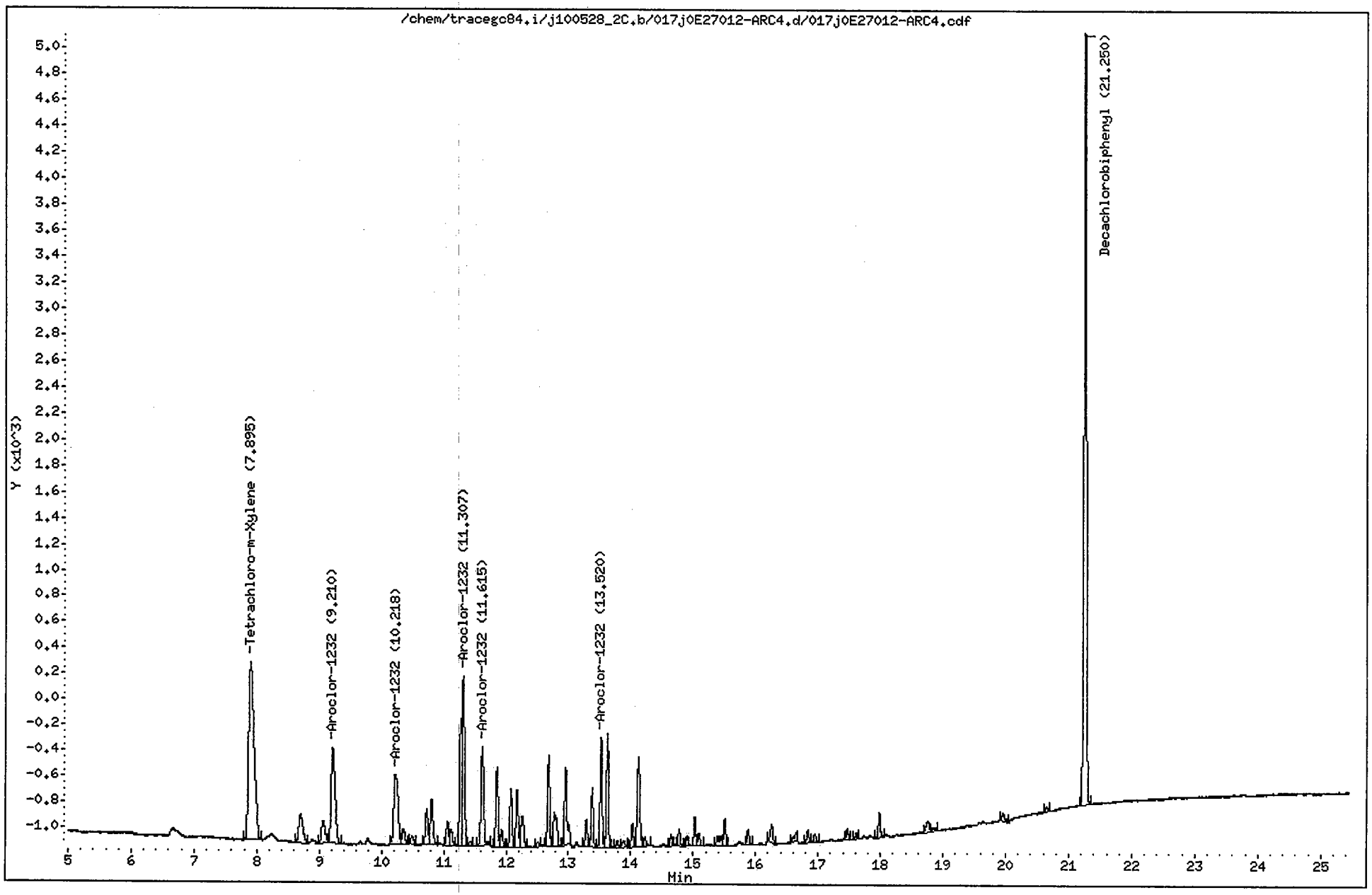
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 29-MAY-2010 00:34 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12323HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55		6078					
1.92		227					
7.90	7.82 7.96	8222	416798	Tetrachloro-m-Xylene	0.020000	410850	
8.69		1024					
9.06		732					
9.21	9.14 9.28	3275	8188	Aroclor-1232 Peak 1	0.400000	8187.500	
10.22	10.15 10.29	2568	6418	Aroclor-1232 Peak 2	0.400000	6417.500	
10.35		378					
10.49		176					
10.72		788					
10.80		1046					
11.05		518					
11.12		332					
11.27		2058					
11.31	11.24 11.38	3727	9318	Aroclor-1232 Peak 3	0.400000	9317.500	
11.43		94					
11.62	11.55 11.69	2299	5748	Aroclor-1232 Peak 4	0.400000	5747.500	
11.85		1547					
11.93		323					
12.08		1075					
12.18		1145					
12.27		852					
12.52		91					
12.68		1662					
12.78		1077					
12.95		1754					
13.29		498					
13.38		1017					
13.52	13.45 13.59	1927	4818	Aroclor-1232 Peak 5	0.400000	4817.500	
13.62		2028					
13.78		100					
13.88		146					
14.03		403					
14.12		2031					
14.23		156					
14.64		186					
14.78		270					
14.90		159					
15.03		465					
15.09		247					
15.39		329					
15.51		455					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC4 Client Smp Id : AR12323HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 29-MAY-2010 00:34 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12323HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.88			264					
16.26			384					
16.60			186					
16.84			225					
16.95			176					
17.47			191					
17.62			94					
17.98			448					
18.76			291					
18.84			109					
19.96			223					
20.66			103					
21.25	21.18	21.32	15900	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/018j0E27012-ARC5.d

Date : 29-MAY-2010 01:03

Client ID: AR12423HA

Instrument: tracegc84.i

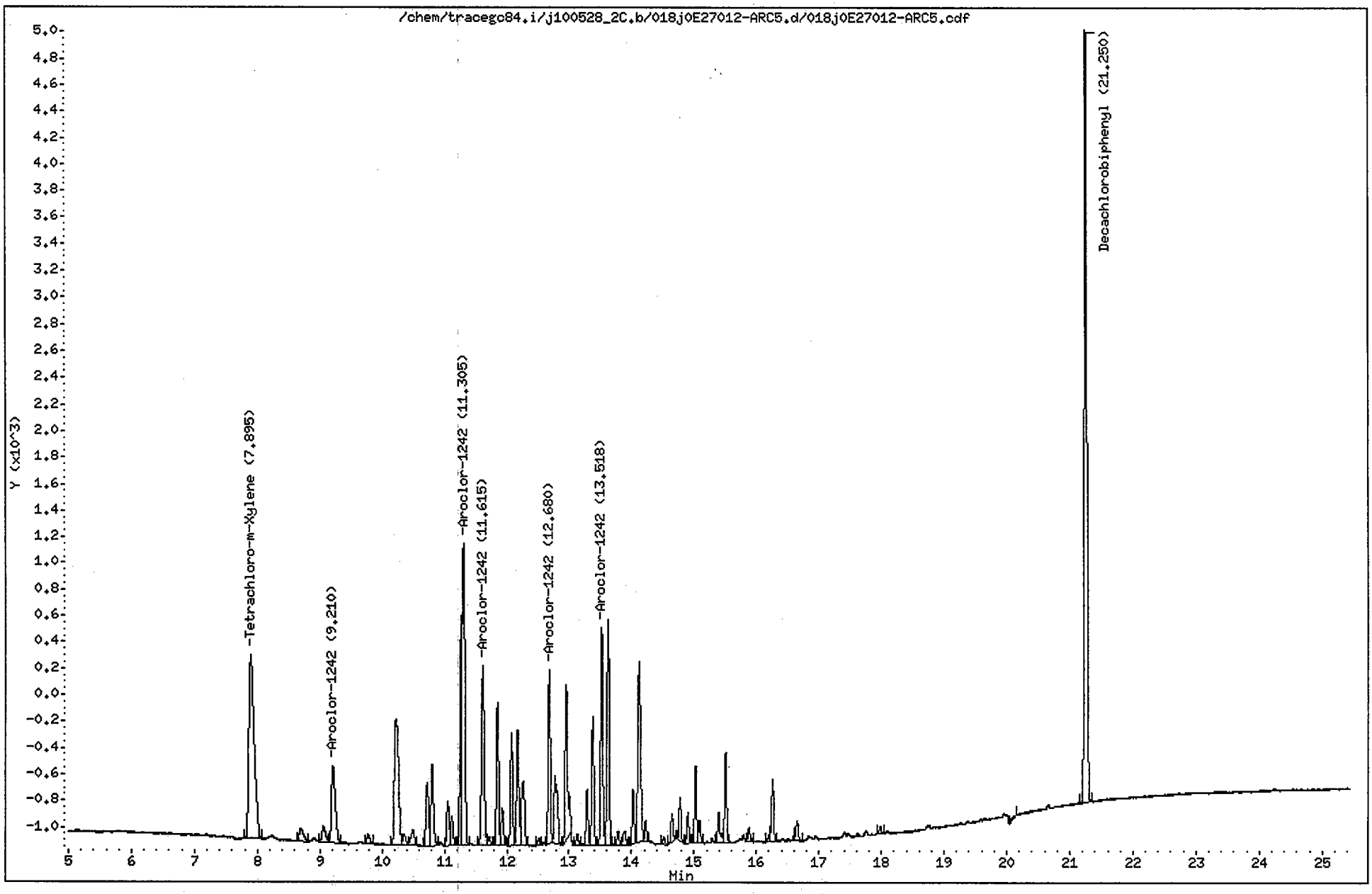
Sample Info: 0E27012-ARC5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 29-MAY-2010 01:03 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12423HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54			4643					
2.52			95					
7.90	7.82	7.96	8181	416798	Tetrachloro-m-Xylene	0.020000	410850	
8.69			451					
9.05			464					
9.21	9.14	9.28	2438	6092	Aroclor-1242 Peak 1	0.400000	6092.500	
9.78			255					
10.22			4459					
10.35			260					
10.49			448					
10.72			1417					
10.80			1857					
11.05			903					
11.12			581					
11.27			3529					
11.30	11.23	11.37	6570	16425	Aroclor-1242 Peak 2	0.400000	16425	
11.62	11.55	11.69	4090	10222	Aroclor-1242 Peak 3	0.400000	10223	
11.72			154					
11.85			2686					
11.93			698					
12.08			2079					
12.17			2308					
12.27			1751					
12.52			122					
12.68	12.61	12.75	3039	7598	Aroclor-1242 Peak 4	0.400000	7597.500	
12.77			1924					
12.95			3384					
13.13			196					
13.29			977					
13.38			2193					
13.52	13.45	13.59	3803	9505	Aroclor-1242 Peak 5	0.400000	9505.000	
13.62			4081					
13.78			240					
13.89			342					
14.02			915					
14.12			4153					
14.22			317					
14.52			126					
14.64			488					
14.78			680					
14.90			497					
15.03			1278					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC5 Client Smp Id : AR12423HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 29-MAY-2010 01:03 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12423HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.09		398					
15.39		655					
15.51		1508					
15.88		255					
16.21		101					
16.25		1102					
16.65		394					
17.98		126					
20.15		103					
21.25	21.18 21.32	15810	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/019j0E27012-ARC6.d

Page 1

Date : 29-MAY-2010 01:32

Client ID: AR12483HA

Instrument: tracegc84.i

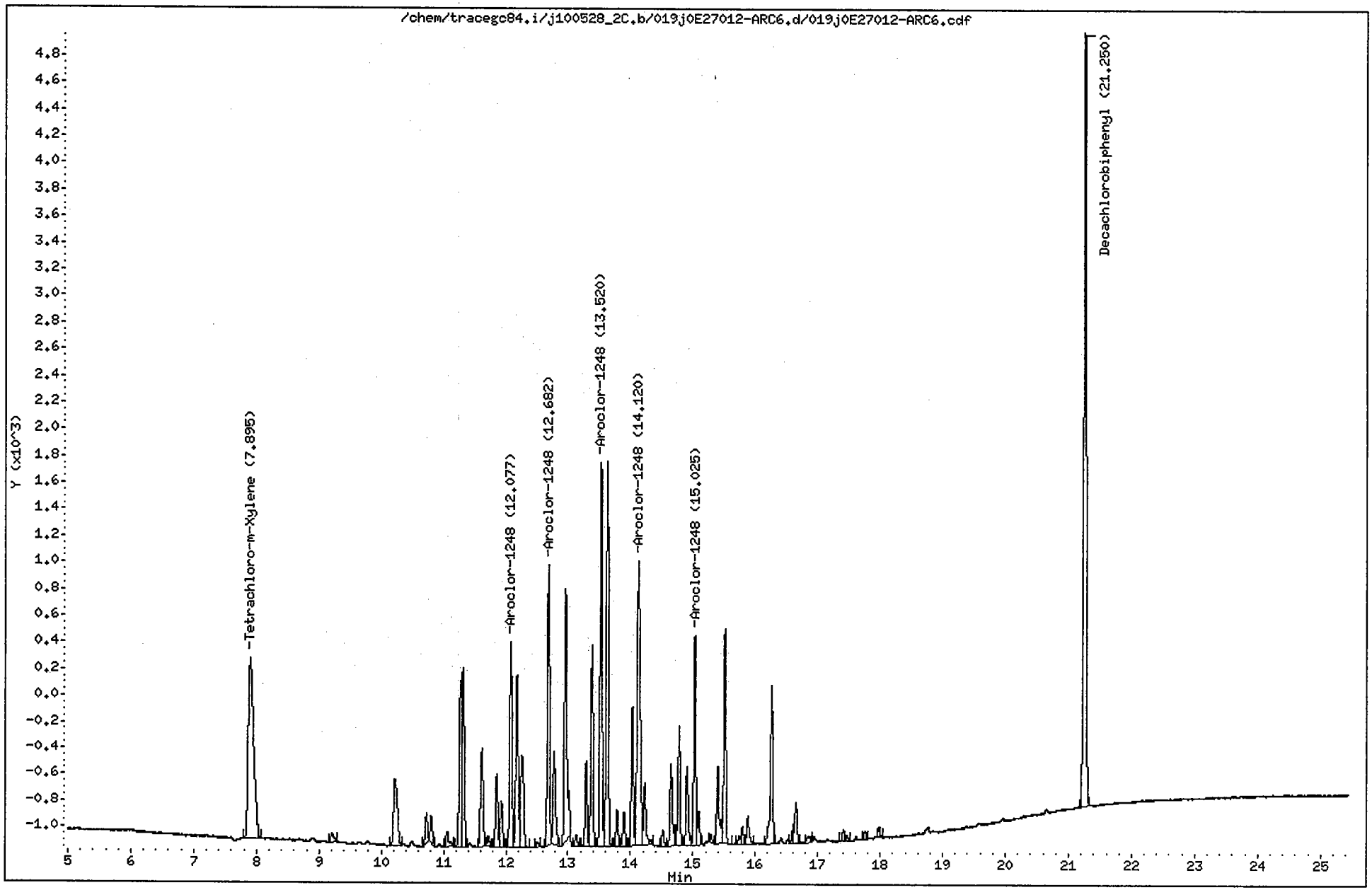
Sample Info: 0E27012-ARC6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 29-MAY-2010 01:32 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12483HA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.55			6951					
1.90			216					
7.90	7.82	7.96	8180	416798	Tetrachloro-m-Xylene	0.020000	410850	
9.21			240					
10.22			2132					
10.72			548					
10.80			506					
11.05			377					
11.27			2891					
11.31			3648					
11.61			2168					
11.71			174					
11.85			1385					
11.93			873					
12.08	12.01	12.15	3800	9500	Aroclor-1248 Peak 1	0.400000	9500.000	
12.17			3447					
12.26			2536					
12.50			95					
12.68	12.61	12.75	4952	12378	Aroclor-1248 Peak 2	0.400000	12377	
12.77			1909					
12.95			5414					
13.13			193					
13.29			1486					
13.38			3533					
13.52	13.45	13.59	6749	16872	Aroclor-1248 Peak 3	0.400000	16873	
13.62			7131					
13.78			627					
13.89			633					
14.03			2480					
14.12	14.05	14.19	7275	18185	Aroclor-1248 Peak 4	0.400000	18185	
14.22			1226					
14.52			289					
14.64			1587					
14.72			238					
14.78			2062					
14.90			1474					
15.02	14.96	15.10	3554	8882	Aroclor-1248 Peak 5	0.400000	8882.500	
15.09			573					
15.29			129					
15.39			1678					
15.51			3676					
15.74			137					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC6 Client Smp Id : AR12483HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 29-MAY-2010 01:32 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12483HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.79		271					
15.88		577					
16.26		3091					
16.60		180					
16.65		770					
16.84		179					
17.41		196					
17.46		100					
17.75		155					
17.98		158					
21.25	21.18 21.32	15689	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/020j0E27012-ARC7.d

Date : 29-MAY-2010 02:01

Client ID: AR12543HA

Sample Info: 0E27012-ARC7

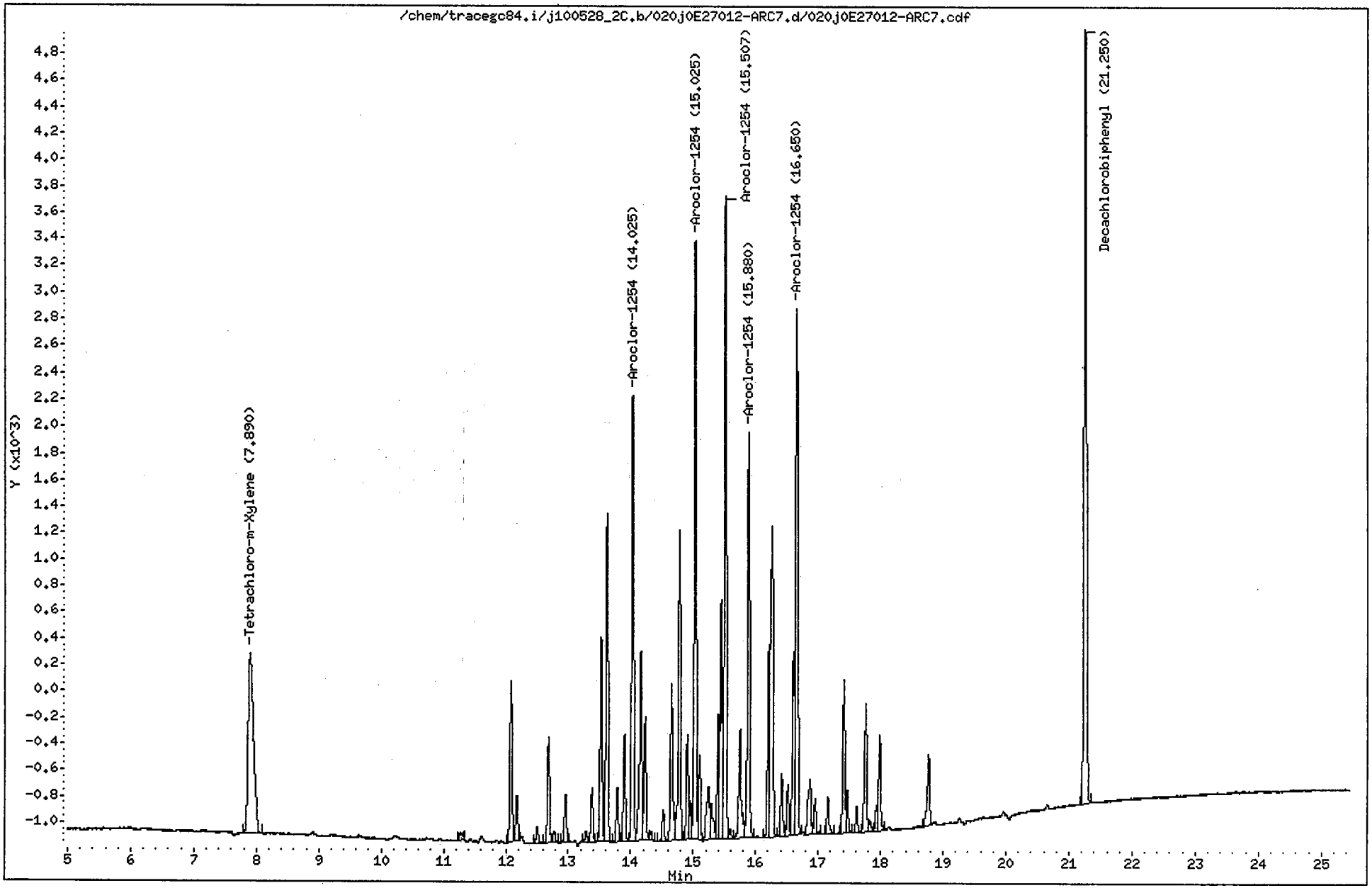
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 29-MAY-2010 02:01 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.53		1503					
2.52		107					
7.89	7.82 7.96	8133	416798	Tetrachloro-m-Xylene	0.020000	410850	
11.27		231					
12.08		2963					
12.17		770					
12.50		310					
12.68		1873					
12.77		210					
12.95		884					
13.29		183					
13.38		919					
13.52		3563					
13.61		5900					
13.78		937					
13.89		1800					
14.02	13.96 14.10	7888	19718	Aroclor-1254 Peak 1	0.400000	19717	
14.16		3806					
14.22		2167					
14.32		171					
14.52		557					
14.64		2999					
14.78		5649					
14.90		1782					
14.95		591					
15.02	14.96 15.10	10277	25690	Aroclor-1254 Peak 2	0.400000	25690	
15.10		1390					
15.24		1408					
15.29		819					
15.39		1945					
15.44		4271					
15.51	15.44 15.58	10919	27295	Aroclor-1254 Peak 3	0.400000	27295	
15.60		153					
15.74		2382					
15.88	15.81 15.95	7170	17922	Aroclor-1254 Peak 4	0.400000	17923	
16.20		2920					
16.25		7155					
16.41		1092					
16.52		844					
16.60		2842					
16.65	16.58 16.72	10096	25238	Aroclor-1254 Peak 5	0.400000	25237	
16.87		1426					

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ARC7 Client Smp Id : AR12543HA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 29-MAY-2010 02:01 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : AR12543HA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.95		635					
17.15		700					
17.41		2600					
17.46		702					
17.62		443					
17.76		2404					
17.83		213					
17.93		382					
17.98		1680					
18.77		1427					
21.25	21.18 21.32	15713	406698	Decachlorobiphenyl	0.040000	401125	

Data File: /chem/tracegc84.i/j100528_2C.b/021j0E27012-ICV1.d

Date : 29-MAY-2010 02:30

Client ID: PESTCHKHA

Sample Info: 0E27012-ICV1

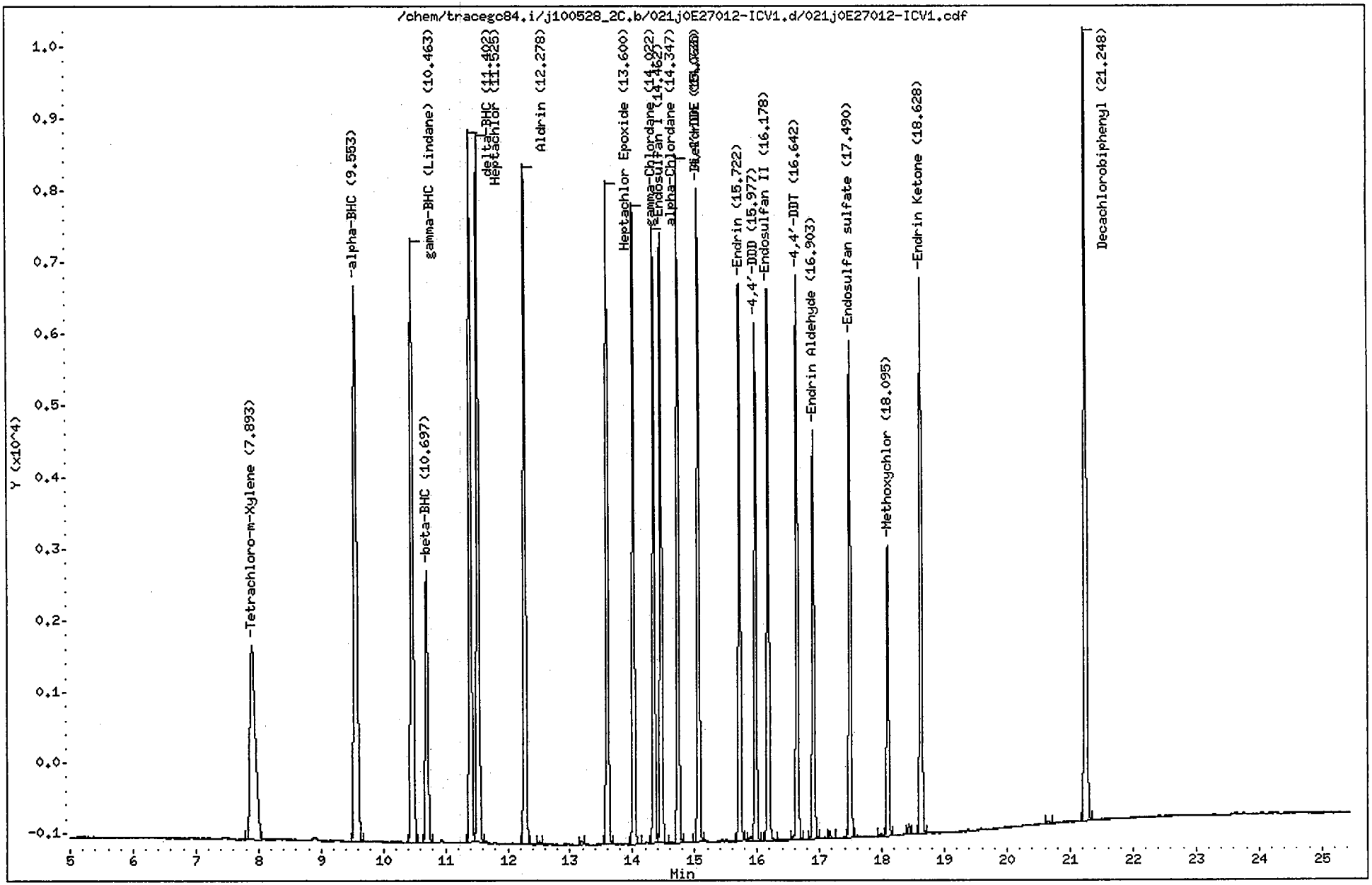
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: System

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ICV1
Client Smp Id : PESTCHKHA
Sample Type : QCCHECK
Sublist : INDA
Inj Date : 29-MAY-2010 02:30
Inst ID : TRACEGC84
Operator : System
Spike Sublist : INDAchek
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PESTCHKHA

RT	AREA
1.52	971
2.52	113
7.89	16373
9.55	27766
10.46	25508
10.70	10744
11.40	25025
11.53	26353
12.28	24122
12.51	90
13.19	137
13.60	21487
14.02	20491
14.35	19566
14.46	19716
14.73	20595
15.06	20726
15.72	17889
15.89	173
15.98	15433
16.18	17845
16.64	17369
16.90	13306
17.16	236
17.49	16118
17.98	91
18.09	9156
18.43	293
18.63	18709
20.66	111
21.25	29779

AHW
6/1/10

Data File: /chem/tracegc84.i/j100528_2C.b/022j0E27012-ICV2.d

Page 1

Date : 29-MAY-2010 02:59

Client ID: PCBCHKHA

Instrument: tracegc84.i

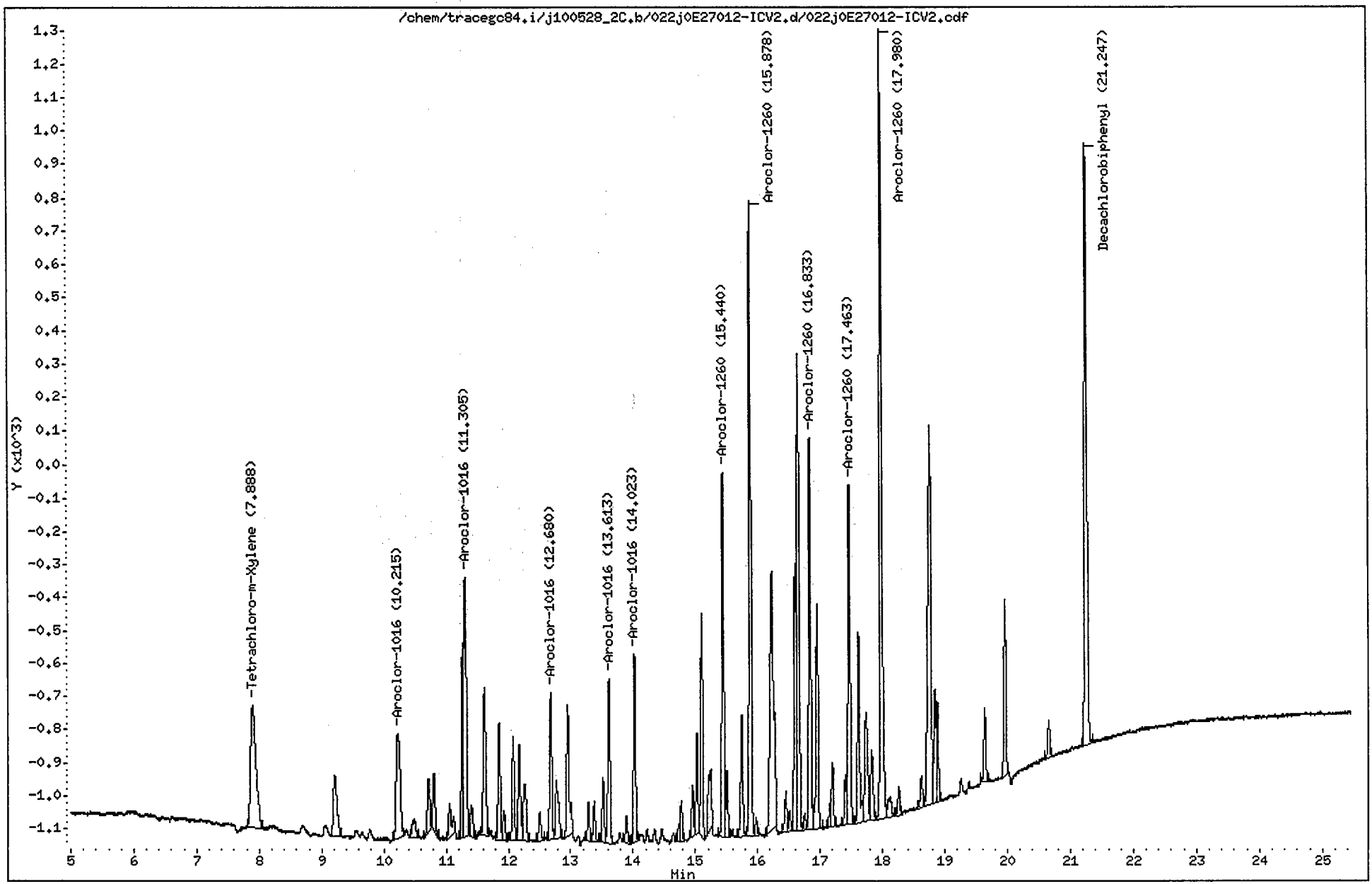
Sample Info: 0E27012-ICV2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27012-ICV2 Client Smp Id : PCBCHKHA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 29-MAY-2010 02:59 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PCBCHKHA

RT	AREA
1.51	5107
7.89	2190
9.21	761
10.21	1448
10.48	242
10.72	451
10.80	458
11.05	369
11.27	1244
11.30	2146
11.41	281
11.61	1273
11.85	884
11.93	232
12.07	732
12.17	760
12.27	603
12.50	215
12.68	1026
12.77	586
12.95	1132
13.28	262
13.38	254
13.52	457
13.61	1218
13.89	196
14.02	1251
14.73	96
14.77	284
14.95	331
15.02	670
15.10	1485
15.21	680
15.44	2500
15.51	438
15.74	902
15.88	4331
15.98	116
16.23	3252
16.45	289
16.51	136
16.60	1788
16.65	3672
16.75	107
16.83	2698

AHW
6/1/10

CompuChem

Lab Smp Id : 0E27012-ICV2
Client Smp Id : PCBCHKHA
Sample Type : QCCHECK
Sublist : AR1660
Inj Date : 29-MAY-2010 02:59
Inst ID :
Operator : AHW
Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/j100528_2C.b/8081A_clpest2v6.m
Misc. Info : PCBCHKHA

RT	AREA
16.95	1595
17.15	119
17.20	443
17.41	308
17.46	2477
17.61	1400
17.73	1073
17.83	559
17.98	5630
18.12	237
18.26	182
18.62	233
18.76	3878
18.84	740
18.88	657
19.63	502
19.95	1166
20.65	268
21.25	4893

Manual Integrations							
SDG:							
Sample(s)	0E27012-ARC1						
Compound							
alpha-BHC							
gamma-BHC							
beta-BHC							
delta-BHC							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
gamma-Chlordane							
alpha-Chlordane							
Endosulfan I							
4,4'-DDE							
Dieldrin							
Endrin							
4,4'-DDD							
Endosulfan II							
4,4'-DDT							
Endrin Aldehyde							
Endosulfan sulfate							
Methoxychlor							
Endrin Ketone							
Toxaphene	x						
Technical Chordane							
Tetrachloro-m-xylene							
Decachlorbiphenyl							
"X" Denotes a manual integration for the compound							

Data File: /chem/tracegc84.i/j100528a.b/025jSEQ-CCV1.d

Date : 29-MAY-2010 04:25

Client ID: INDC3JD

Instrument: tracegc84.i

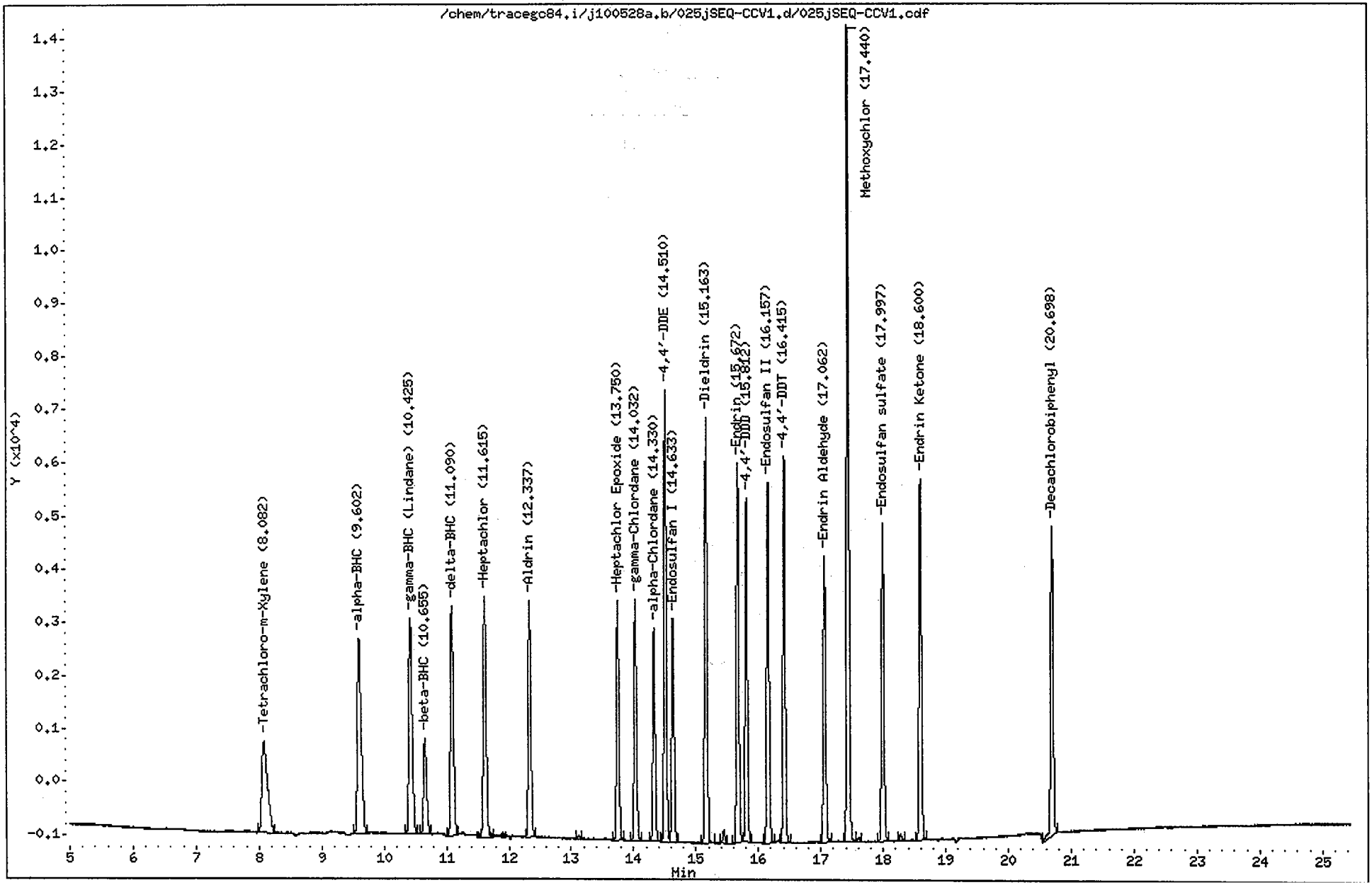
Sample Info: SEQ-CCV1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3JD
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 04:25 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528a.b/8081A_clpestv6.m
Misc. Info : INDC3JD

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.56			34861								
8.08	8.01	8.15	10632	522758	Tetrachloro-m-Xylene	0.020000	531600	-1.7	20.0		
9.60	9.53	9.67	15782	775960	alpha-BHC	0.020000	789092	-1.7	20.0		
10.42	10.36	10.50	14777	729192	gamma-BHC (Lindane)	0.020000	738830	-1.3	20.0		
10.66	10.59	10.73	6036	300532	beta-BHC	0.020000	301810	-0.4	20.0		
11.09	11.02	11.16	14006	689518	delta-BHC	0.020000	700305	-1.6	20.0		
11.62	11.55	11.69	14496	695465	Heptachlor	0.020000	724787	-4.2	20.0		
12.34	12.27	12.41	12920	636570	Aldrin	0.020000	646013	-1.5	20.0		
13.12			161								
13.75	13.68	13.82	11941	593700	Heptachlor Epoxide	0.020000	597050	-0.6	20.0		
14.03	13.97	14.11	11909	594875	gamma-Chlordane	0.020000	595430	-0.1	20.0		
14.33	14.27	14.41	10420	516712	alpha-Chlordane	0.020000	521020	-0.8	20.0		
14.51	14.45	14.59	20831	523741	4,4'-DDE	0.040000	520770	0.6	20.0		
14.63	14.57	14.71	11080	548162	Endosulfan I	0.020000	554002	-1.1	20.0		
15.16	15.10	15.24	20501	515556	Dieldrin	0.040000	512533	0.6	20.0		
15.44			584								
15.67	15.61	15.75	18436	463071	Endrin	0.040000	460905	0.5	20.0		
15.81	15.75	15.89	15550	393458	4,4'-DDD	0.040000	388743	1.2	20.0		
16.16	16.09	16.23	17906	450326	Endosulfan II	0.040000	447660	0.6	20.0		
16.42	16.35	16.49	17856	454781	4,4'-DDT	0.040000	446406	1.8	20.0		
17.06	17.00	17.14	13938	348470	Endrin Aldehyde	0.040000	348454	0.0	20.0		
17.44	17.37	17.51	37764	194359	Methoxychlor	0.200000	188820	2.8	20.0		
17.61			196								
18.00	17.93	18.07	15500	392055	Endosulfan sulfate	0.040000	387507	1.2	20.0		
18.28			330								
18.60	18.53	18.67	17867	457258	Endrin Ketone	0.040000	446663	2.3	20.0		
20.70	20.63	20.77	16619	408350	Decachlorobiphenyl	0.040000	415463	-1.7	20.0		

AHW
6/4/10

Data File: /chem/tracegc84.i/j100528a.b/026jSEQ-PEM1.d

Date : 29-MAY-2010 04:54

Client ID: PEMJD

Instrument: tracegc84.i

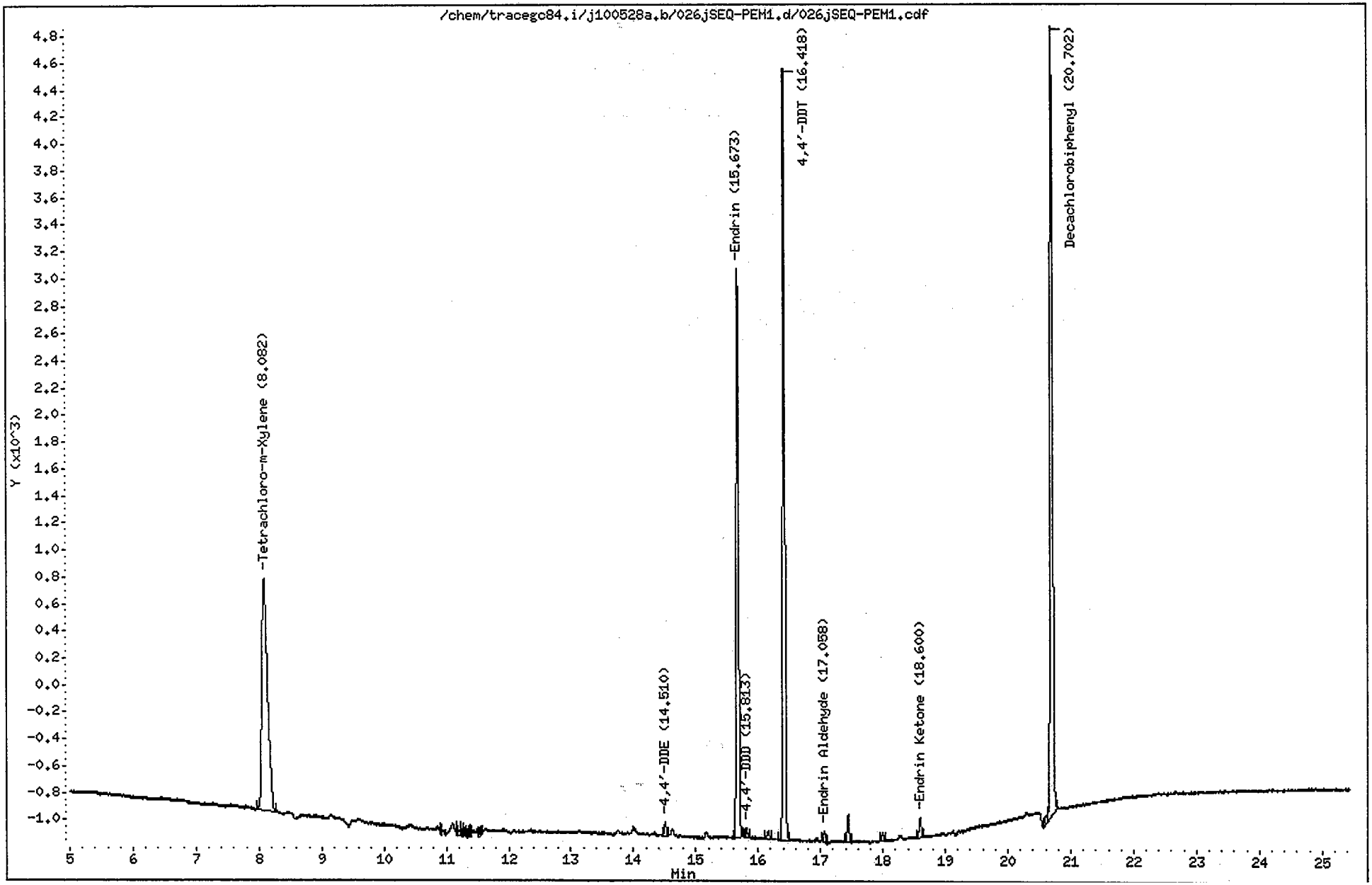
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMJD
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 04:54 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528a.b/8081A_clpestv6.m
Misc. Info : PEMJD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.55			3289								
2.60			171								
8.08	8.01	8.15	10913	522758	Tetrachloro-m-Xylene	0.020877	0.020877		105.4	43 - 135	
11.17			134								
11.51			140								
14.51	14.45	14.59	235	523741	4,4'-DDE	0.000449	0.000449	0.020000			J
15.67	15.61	15.75	10775	463071	Endrin	0.023269	0.023269	0.020000			
15.81	15.75	15.89	142	393458	4,4'-DDD	0.000361	0.000361	0.020000			J
16.16			153								
16.42	16.35	16.49	13846	454781	4,4'-DDT	0.030444	0.030444	0.020000			
17.06	17.00	17.14	201	348470	Endrin Aldehyde	0.000576	0.000576	0.020000			J
17.44			472								
18.00			156								
18.60	18.53	18.67	383	457258	Endrin Ketone	0.000838	0.000838	0.020000			J
20.62			134								
20.70	20.63	20.77	16163	408350	Decachlorobiphenyl	0.039582	0.039582		100.0	43 - 144	

AHW
6/4/10

Data File: /chem/tracegc84.i/j100528a_2C.b/025jSEQ-CCV1.d

Date : 29-MAY-2010 04:25

Client ID: INDC3JD

Sample Info: SEQ-CCV1

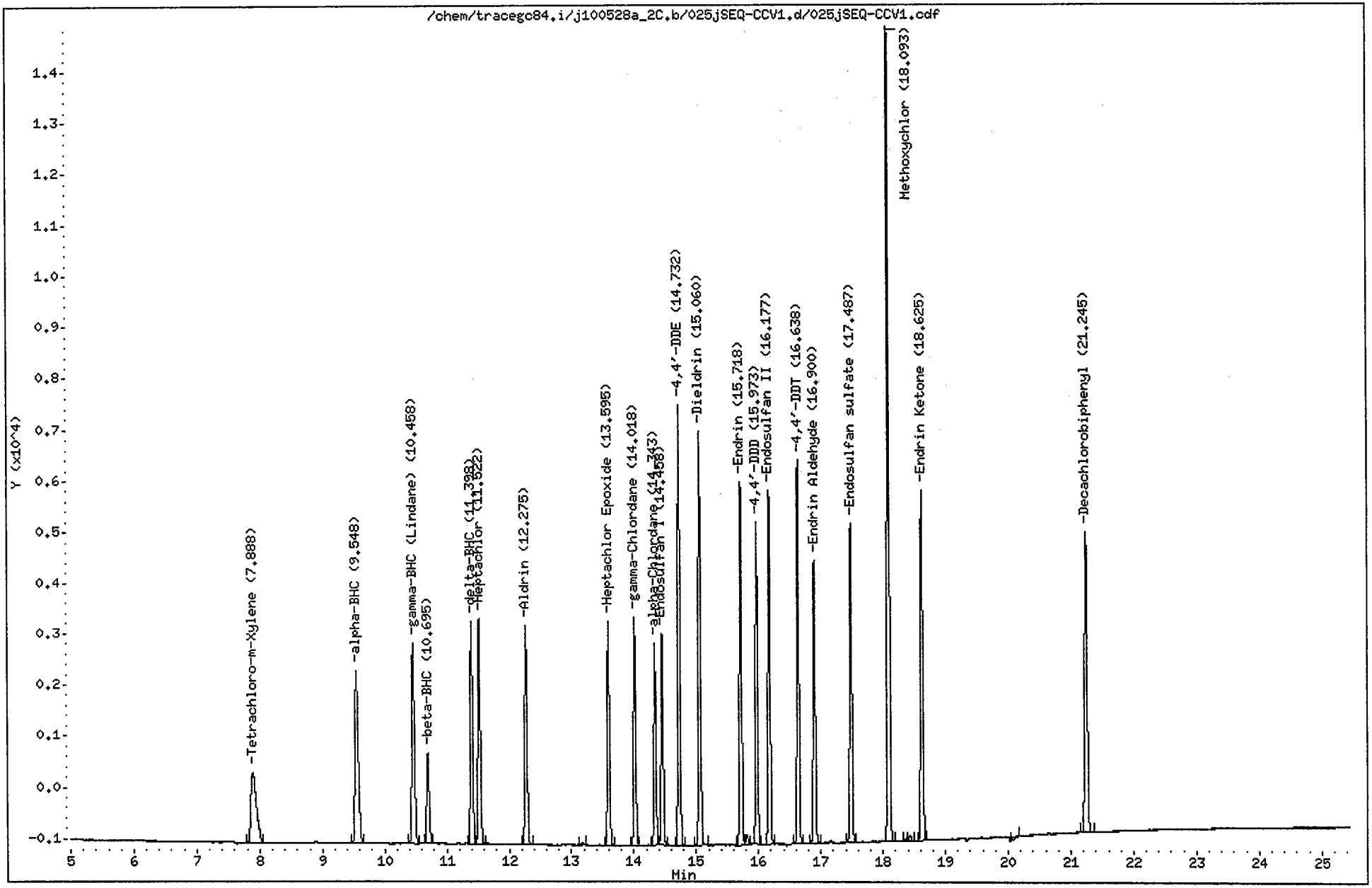
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3JD
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 04:25 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3JD

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.55			3113								
2.52			138								
7.89	7.82	7.96	8212	416798	Tetrachloro-m-Xylene	0.020000	410607	1.5	20.0		
9.55	9.48	9.62	11901	607758	alpha-BHC	0.020000	595050	2.1	20.0		
10.46	10.39	10.53	11553	585542	gamma-BHC (Lindane)	0.020000	577655	1.3	20.0		
10.70	10.63	10.77	4900	248610	beta-BHC	0.020000	245015	1.4	20.0		
11.40	11.33	11.47	10858	551235	delta-BHC	0.020000	542913	1.5	20.0		
11.52	11.45	11.59	11634	579497	Heptachlor	0.020000	581710	-0.4	20.0		
12.28	12.21	12.35	10729	542192	Aldrin	0.020000	536450	1.1	20.0		
13.18			99								
13.60	13.53	13.67	10083	511912	Heptachlor Epoxide	0.020000	504135	1.5	20.0		
14.02	13.95	14.09	10139	513150	gamma-Chlordane	0.020000	506935	1.2	20.0		
14.34	14.28	14.42	8828	446248	alpha-Chlordane	0.020000	441403	1.1	20.0		
14.46	14.39	14.53	9456	477982	Endosulfan I	0.020000	472790	1.1	20.0		
14.73	14.67	14.81	18593	468602	4,4'-DDE	0.040000	464816	0.8	20.0		
15.06	14.99	15.13	18367	461929	Dieldrin	0.040000	459185	0.6	20.0		
15.72	15.65	15.79	16352	408649	Endrin	0.040000	408807	0.0	20.0		
15.82			456								
15.97	15.91	16.05	13493	340626	4,4'-DDD	0.040000	337320	1.0	20.0		
16.18	16.11	16.25	16069	404930	Endosulfan II	0.040000	401732	0.8	20.0		
16.64	16.57	16.71	15967	405929	4,4'-DDT	0.040000	399181	1.7	20.0		
16.90	16.83	16.97	12768	316985	Endrin Aldehyde	0.040000	319210	-0.7	20.0		
17.49	17.42	17.56	14433	366674	Endosulfan sulfate	0.040000	360831	1.6	20.0		
18.09	18.03	18.17	35663	182916	Methoxychlor	0.200000	178317	2.5	20.0		
18.36			140								
18.43			264								
18.62	18.56	18.70	16465	419519	Endrin Ketone	0.040000	411616	1.9	20.0		
20.16			218								
21.24	21.18	21.32	15884	406698	Decachlorobiphenyl	0.040000	397097	2.4	20.0		

AHW
6/4/10

Data File: /chem/tracegc84.i/j100528a_2C.b/026jSEQ-PEM1.d

Date : 29-MAY-2010 04:54

Client ID: PEMJD

Instrument: tracegc84.i

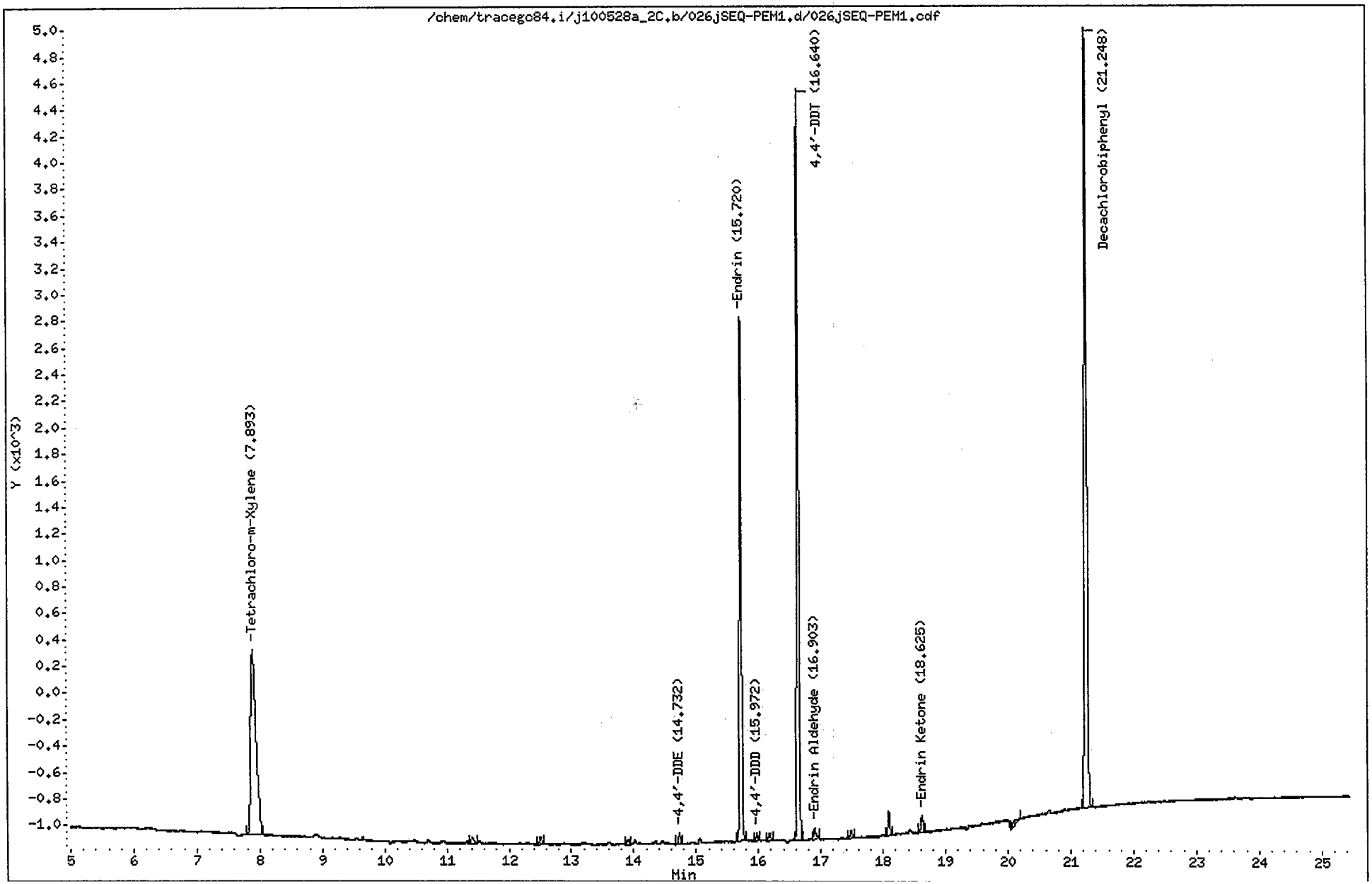
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMJD
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 04:54 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : PEMJD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.55			2383								
2.52			90								
7.89	7.82	7.96	8280	416798	Tetrachloro-m-Xylene	0.019866	0.019866		100.3	43 - 135	
11.40			134								
12.51			141								
13.91			93								
14.73	14.67	14.81	169	468602	4,4'-DDE	0.000361	0.000361	0.020000			J
15.72	15.65	15.79	9115	408649	Endrin	0.022305	0.022305	0.020000			
15.97	15.91	16.05	104	340626	4,4'-DDD	0.000305	0.000305	0.020000			J
16.18			119								
16.64	16.57	16.71	12158	405929	4,4'-DDT	0.029952	0.029952	0.020000			
16.90	16.83	16.97	212	316985	Endrin Aldehyde	0.000668	0.000668	0.020000			J
17.49			147								
18.09			393								
18.62	18.56	18.70	281	419519	Endrin Ketone	0.000669	0.000669	0.020000			J
20.19			207								
21.25	21.18	21.32	15896	406698	Decachlorobiphenyl	0.039085	0.039085		98.7	43 - 144	

AHW
6/4/10

Data File: /chem/tracegc84.i/j100528b.b/036jSEQ-CCV2.d

Page 1

Date : 29-MAY-2010 09:43

Client ID: INDC3JF

Instrument: tracegc84.i

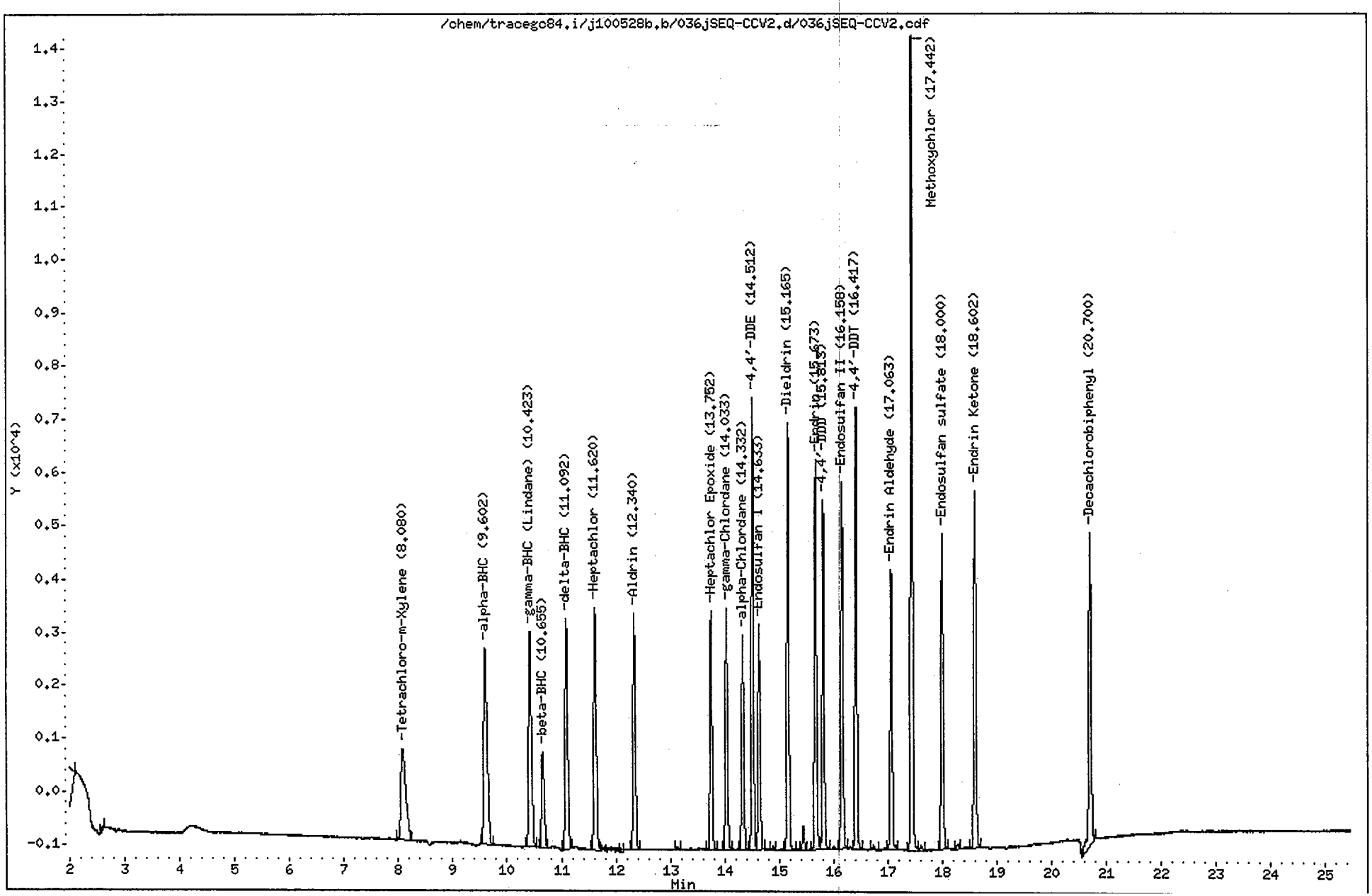
Sample Info: SEQ-CCV2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3JF
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 09:43 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528b.b/8081A_clpestv6.m
Misc. Info : INDC3JF

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.44			161								
1.56			38956								
2.59			183								
8.08	8.01	8.15	10663	522758	Tetrachloro-m-Xylene	0.020000	533170	-2.0	20.0		
9.60	9.53	9.67	15783	775960	alpha-BHC	0.020000	789140	-1.7	20.0		
10.42	10.36	10.50	14730	729192	gamma-BHC (Lindane)	0.020000	736488	-1.0	20.0		
10.66	10.59	10.73	6071	300532	beta-BHC	0.020000	303560	-1.0	20.0		
11.09	11.02	11.16	14104	689518	delta-BHC	0.020000	705177	-2.3	20.0		
11.62	11.55	11.69	14303	695465	Heptachlor	0.020000	715138	-2.8	20.0		
12.07			211								
12.34	12.27	12.41	12852	636570	Aldrin	0.020000	642603	-0.9	20.0		
13.12			177								
13.75	13.68	13.82	11908	593700	Heptachlor Epoxide	0.020000	595400	-0.3	20.0		
14.03	13.97	14.11	11998	594875	gamma-Chlordane	0.020000	599920	-0.8	20.0		
14.33	14.27	14.41	10512	516712	alpha-Chlordane	0.020000	525602	-1.7	20.0		
14.51	14.45	14.59	20985	523741	4,4'-DDE	0.040000	524624	-0.2	20.0		
14.63	14.57	14.71	11087	548162	Endosulfan I	0.020000	554330	-1.1	20.0		
14.89			168								
15.16	15.10	15.24	20620	515556	Dieldrin	0.040000	515505	0.0	20.0		
15.45			1062								
15.67	15.61	15.75	18999	463071	Endrin	0.040000	474986	-2.6	20.0		
15.81	15.75	15.89	15991	393458	4,4'-DDD	0.040000	399771	-1.6	20.0		
16.16	16.09	16.23	17814	450326	Endosulfan II	0.040000	445340	1.1	20.0		
16.42	16.35	16.49	20482	454781	4,4'-DDT	0.040000	512050	-12.6	20.0		
16.73			218								
17.06	17.00	17.14	13584	348470	Endrin Aldehyde	0.040000	339605	2.5	20.0		
17.44	17.37	17.51	38337	194359	Methoxychlor	0.200000	191686	1.4	20.0		
17.61			260								
18.00	17.93	18.07	15609	392055	Endosulfan sulfate	0.040000	390213	0.5	20.0		
18.28			215								
18.60	18.53	18.67	17759	457258	Endrin Ketone	0.040000	443977	2.9	20.0		
20.70	20.63	20.77	17567	408350	Decachlorobiphenyl	0.040000	439185	-7.6	20.0		

AHW
6/4/10

Data File: /chem/tracegc84.i/j100528b.b/037jSEQ-PEM2.d

Page 1

Date : 29-MAY-2010 10:12

Client ID: PEMJF

Instrument: tracegc84.i

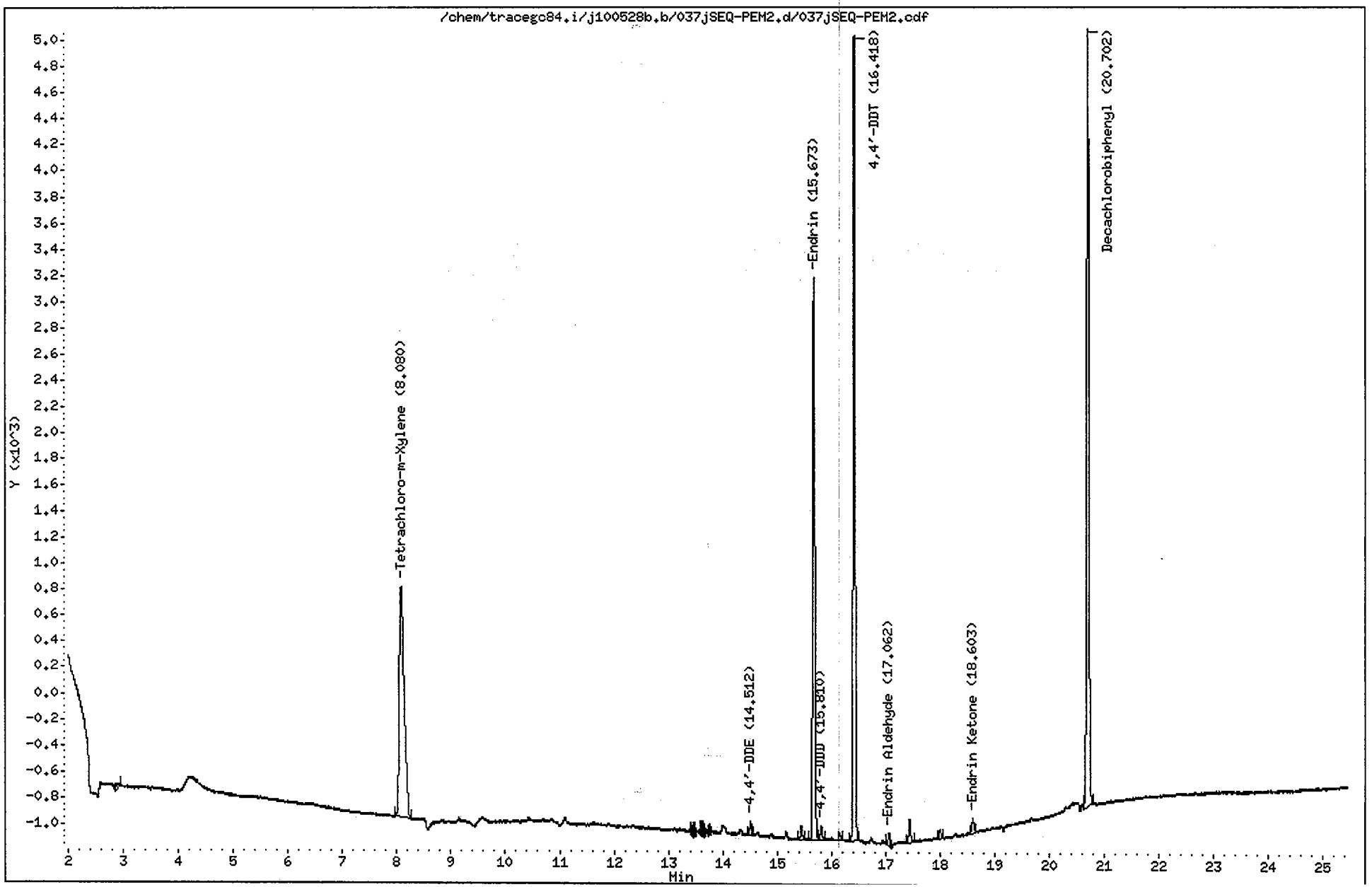
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMJF
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 10:12 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528b.b/8081A_clpestv6.m
Misc. Info : PEMJF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.56			3476								
2.88			144								
8.08	8.01	8.15	11064	522758	Tetrachloro-m-Xylene	0.021164	0.021164		106.9	43 - 135	
13.40			186								
14.51	14.45	14.59	237	523741	4,4'-DDE	0.000452	0.000452	0.020000			J
15.45			232								
15.67	15.61	15.75	11295	463071	Endrin	0.024391	0.024391	0.020000			
15.81	15.75	15.89	243	393458	4,4'-DDD	0.000617	0.000617	0.020000			J
16.15			128								
16.42	16.35	16.49	15265	454781	4,4'-DDT	0.033566	0.033566	0.020000			
17.06	17.00	17.14	224	348470	Endrin Aldehyde	0.000643	0.000643	0.020000			J
17.44			426								
18.00			172								
18.60	18.53	18.67	271	457258	Endrin Ketone	0.000592	0.000592	0.020000			J
20.70	20.63	20.77	16419	408350	Decachlorobiphenyl	0.040207	0.040207		101.5	43 - 144	

AHW
6/4/10

Data File: /chem/tracegc84.i/j100528b_2C.b/036jSEQ-CCV2.d

Date : 29-MAY-2010 09:43

Client ID: INDC3JF

Sample Info: SEQ-CCV2

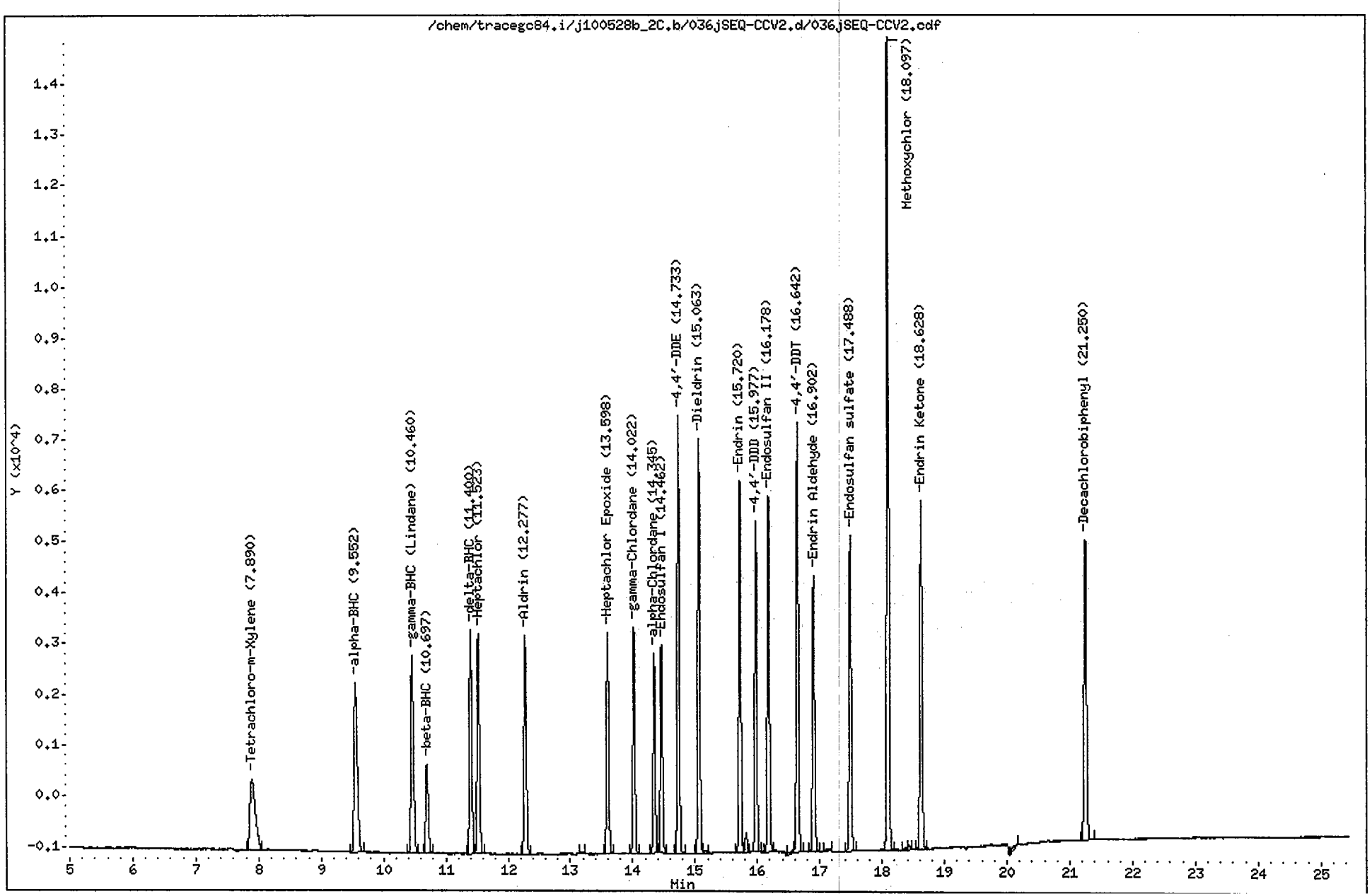
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3JF
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 09:43 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528b_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3JF

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.55			9140								
7.89	7.82	7.96	8189	416798	Tetrachloro-m-Xylene	0.020000	409428	1.8	20.0		
9.55	9.48	9.62	11904	607758	alpha-BHC	0.020000	595225	2.1	20.0		
10.46	10.39	10.53	11508	585542	gamma-BHC (Lindane)	0.020000	575390	1.7	20.0		
10.70	10.63	10.77	4898	248610	beta-BHC	0.020000	244918	1.5	20.0		
11.40	11.33	11.47	10892	551235	delta-BHC	0.020000	544585	1.2	20.0		
11.52	11.45	11.59	11584	579497	Heptachlor	0.020000	579220	0.0	20.0		
12.28	12.21	12.35	10678	542192	Aldrin	0.020000	533875	1.5	20.0		
13.18			101								
13.60	13.53	13.67	10007	511912	Heptachlor Epoxide	0.020000	500365	2.3	20.0		
14.02	13.95	14.09	10134	513150	gamma-Chlordane	0.020000	506690	1.3	20.0		
14.34	14.28	14.42	8821	446248	alpha-Chlordane	0.020000	441048	1.2	20.0		
14.46	14.39	14.53	9406	477982	Endosulfan I	0.020000	470307	1.6	20.0		
14.73	14.67	14.81	18602	468602	4,4'-DDE	0.040000	465057	0.8	20.0		
15.06	14.99	15.13	18305	461929	Dieldrin	0.040000	457626	0.9	20.0		
15.17			122								
15.72	15.65	15.79	16602	408649	Endrin	0.040000	415052	-1.6	20.0		
15.82			805								
15.98	15.91	16.05	13611	340626	4,4'-DDD	0.040000	340278	0.1	20.0		
16.18	16.11	16.25	16014	404930	Endosulfan II	0.040000	400360	1.1	20.0		
16.58			306								
16.64	16.57	16.71	18712	405929	4,4'-DDT	0.040000	467794	-15.2	20.0		
16.90	16.83	16.97	12601	316985	Endrin Aldehyde	0.040000	315013	0.6	20.0		
17.11			202								
17.49	17.42	17.56	14497	366674	Endosulfan sulfate	0.040000	362424	1.2	20.0		
18.10	18.03	18.17	36021	182916	Methoxychlor	0.200000	180104	1.5	20.0		
18.37			132								
18.44			203								
18.63	18.56	18.70	16382	419519	Endrin Ketone	0.040000	409560	2.4	20.0		
20.16			467								
21.25	21.18	21.32	15944	406698	Decachlorobiphenyl	0.040000	398588	2.0	20.0		

AHW
6/4/10

Data File: /chem/tracegc84.i/j100528b_2C.b/037jSEQ-PEM2.d

Page 1

Date : 29-MAY-2010 10:12

Client ID: PEMJF

Instrument: tracegc84.i

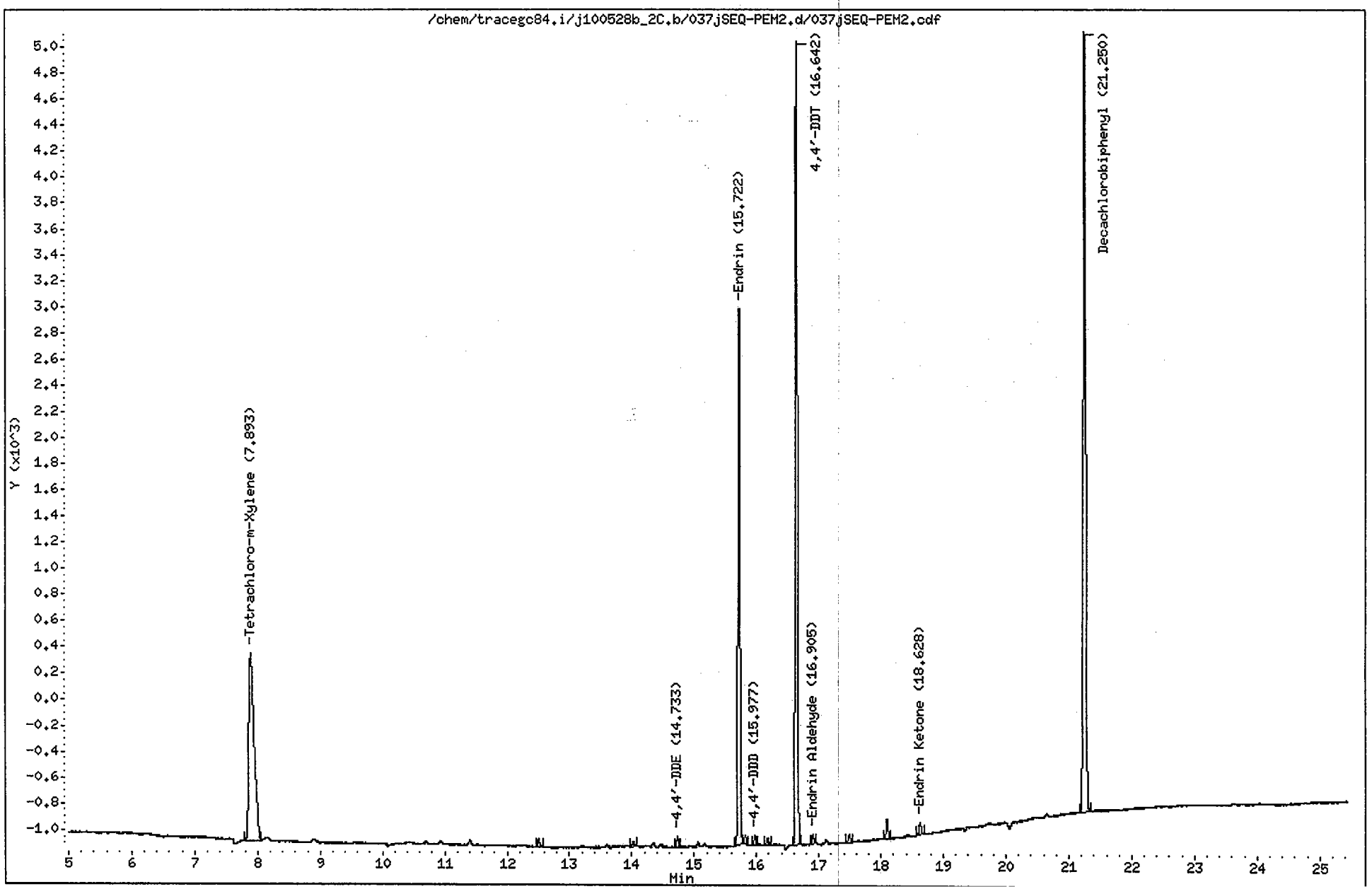
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMJF
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 10:12 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528b_2C.b/8081A_clpest2v6.m
Misc. Info : PEMJF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

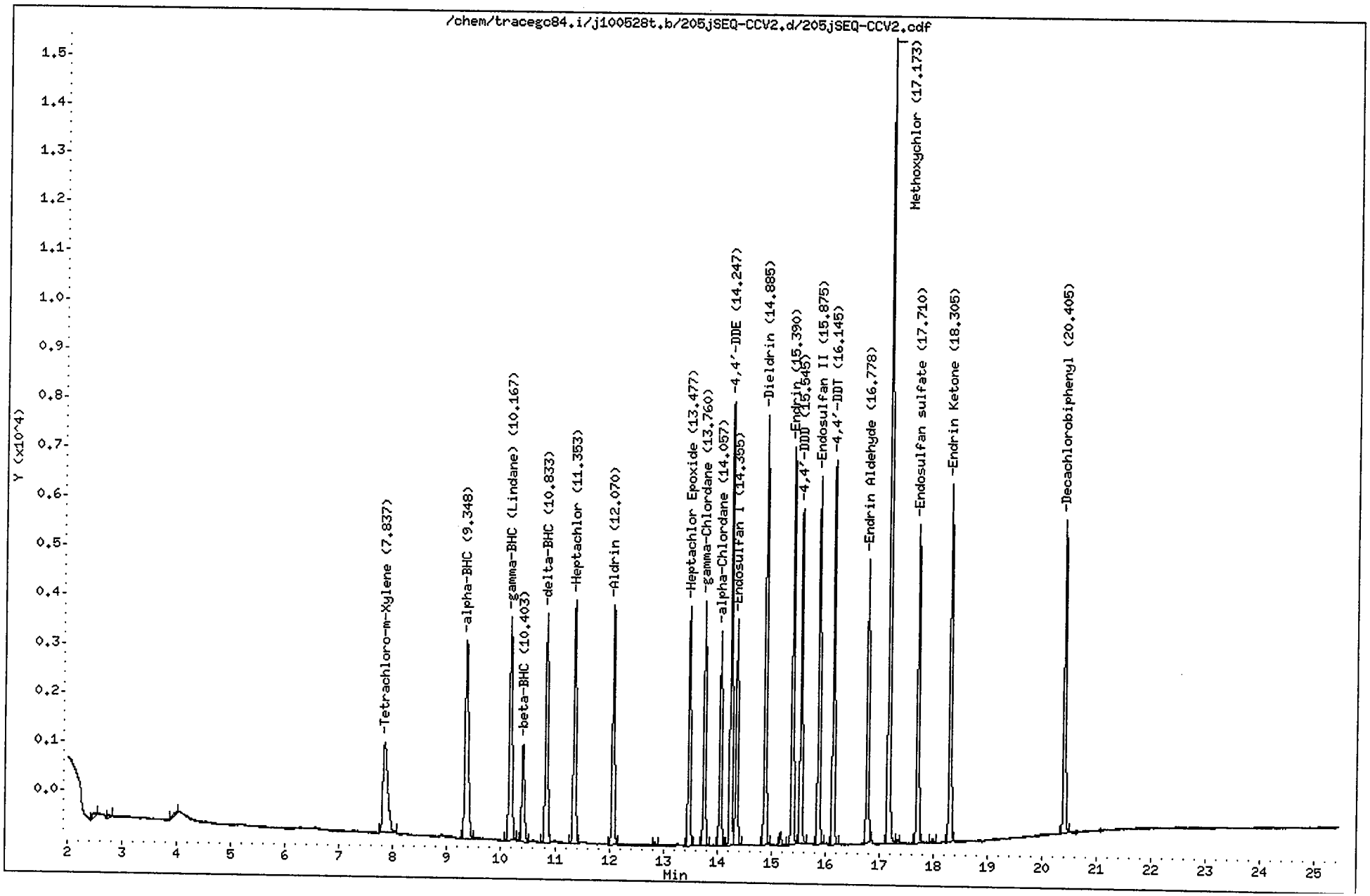
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.55			2342								
2.49			114								
7.89	7.82	7.96	8480	416798	Tetrachloro-m-Xylene	0.020346	0.020346		102.8	43 - 135	
12.50			132								
14.02			101								
14.73	14.67	14.81	171	468602	4,4'-DDE	0.000366	0.000366	0.020000			J
15.72	15.65	15.79	9464	408649	Endrin	0.023158	0.023158	0.020000			
15.82			145								
15.98	15.91	16.05	149	340626	4,4'-DDD	0.000437	0.000437	0.020000			J
16.18			127								
16.64	16.57	16.71	13517	405929	4,4'-DDT	0.033299	0.033299	0.020000			
16.90	16.83	16.97	131	316985	Endrin Aldehyde	0.000413	0.000413	0.020000			J
17.49			141								
18.09			342								
18.63	18.56	18.70	225	419519	Endrin Ketone	0.000537	0.000537	0.020000			J
21.25	21.18	21.32	16289	406698	Decachlorobiphenyl	0.040051	0.040051		101.1	43 - 144	

AHW
6/4/10

Data File: /chem/tracegc84.i/j100528t.b/205jSEQ-CCV2.d
Date : 04-JUN-2010 18:46
Client ID: INDC3KP
Sample Info: SEQ-CCV2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3KP
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 04-JUN-2010 18:46 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : INDC3KP

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.35			175								
1.46			35824								
2.48			430								
2.76			175								
4.01			260								
7.84	7.77	7.91	11439	522758	Tetrachloro-m-Xylene	0.020000	571975	-9.4	20.0		
9.35	9.29	9.43	17019	775960	alpha-BHC	0.020000	850940	-9.7	20.0		
10.17	10.11	10.25	15848	729192	gamma-BHC (Lindane)	0.020000	792385	-8.7	20.0		
10.40	10.34	10.48	6565	300532	beta-BHC	0.020000	328235	-9.2	20.0		
10.83	10.77	10.91	14589	689518	delta-BHC	0.020000	729430	-5.8	20.0		
11.35	11.29	11.43	15015	695465	Heptachlor	0.020000	750732	-7.9	20.0		
12.07	12.01	12.15	13755	636570	Aldrin	0.020000	687728	-8.0	20.0		
12.84			155								
13.48	13.42	13.56	12697	593700	Heptachlor Epoxide	0.020000	634845	-6.9	20.0		
13.76	13.70	13.84	12742	594875	gamma-Chlordane	0.020000	637113	-7.1	20.0		
14.06	14.00	14.14	11113	516712	alpha-Chlordane	0.020000	555670	-7.5	20.0		
14.25	14.19	14.33	22099	523741	4,4'-DDE	0.040000	552473	-5.5	20.0		
14.36	14.29	14.43	12103	548162	Endosulfan I	0.020000	605145	-10.4	20.0		
14.88	14.82	14.96	22012	515556	Dieldrin	0.040000	550295	-6.7	20.0		
15.18			636								
15.39	15.33	15.47	20431	463071	Endrin	0.040000	510763	-10.3	20.0		
15.54	15.48	15.62	16592	393458	4,4'-DDD	0.040000	414800	-5.4	20.0		
15.88	15.81	15.95	19201	450326	Endosulfan II	0.040000	480020	-6.6	20.0		
16.14	16.08	16.22	18947	454781	4,4'-DDT	0.040000	473670	-4.2	20.0		
16.78	16.71	16.85	14753	348470	Endrin Aldehyde	0.040000	368831	-5.8	20.0		
17.17	17.11	17.25	40093	194359	Methoxychlor	0.200000	200466	-3.1	20.0		
17.35			220								
17.71	17.65	17.79	16484	392055	Endosulfan sulfate	0.040000	412102	-5.1	20.0		
17.98			222								
18.30	18.24	18.38	18865	457258	Endrin Ketone	0.040000	471615	-3.1	20.0		
20.40	20.33	20.47	16376	408350	Decachlorobiphenyl	0.040000	409392	-0.3	20.0		

Data File: /chem/tracegc84.i/j100528t.b/206jSEQ-PEM2.d

Date : 04-JUN-2010 19:15

Client ID: PEMKP

Instrument: tracegc84.i

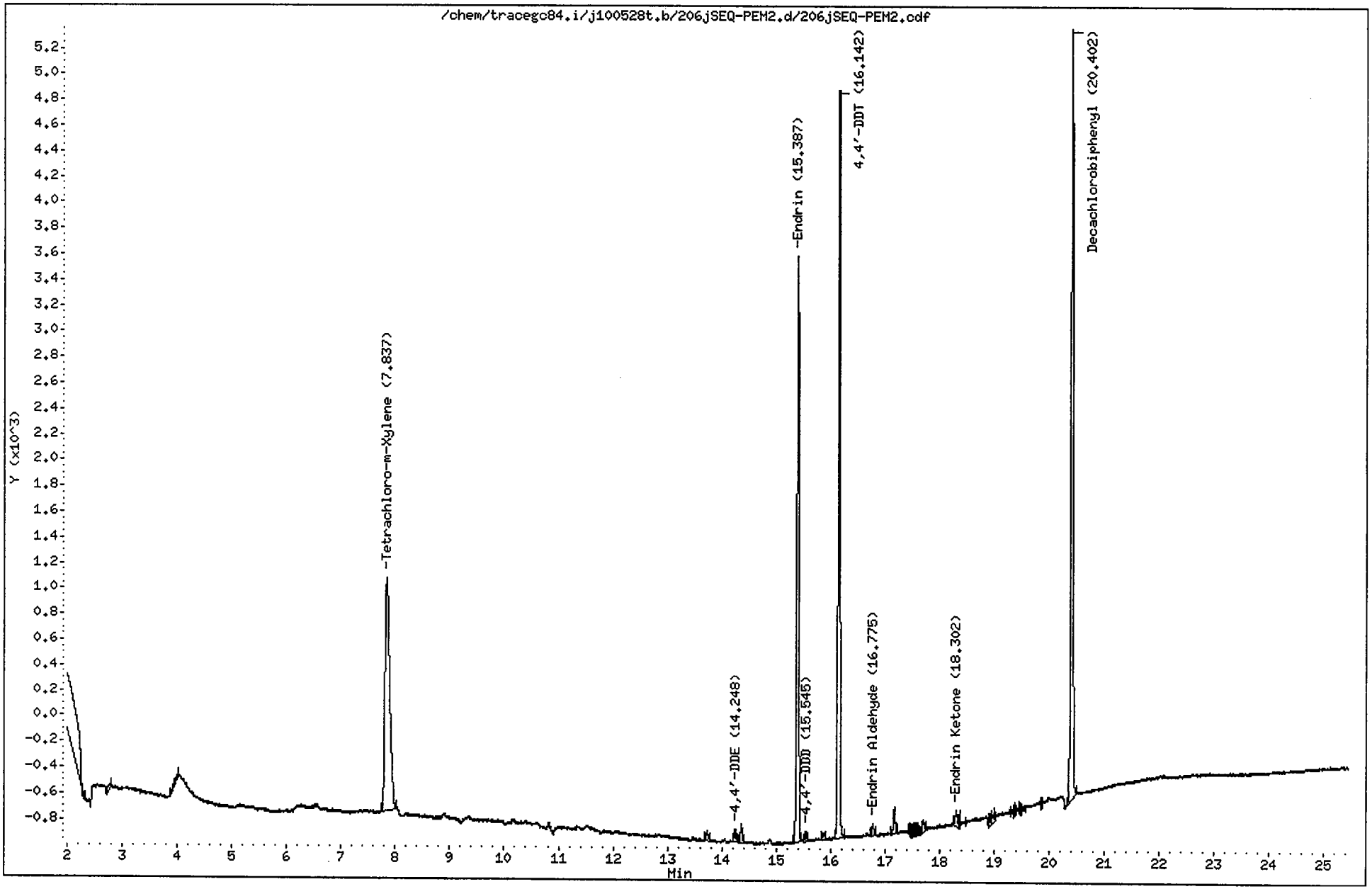
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMKP
Sample Type : SAMPLE Sublist : PEM
Inj Date : 04-JUN-2010 19:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : PEMKP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.05		121								
1.36		561								
1.45		61274								
2.75		179								
4.00		289								
7.84	7.77 7.91	11105	522758	Tetrachloro-m-Xylene	0.021242	0.021242		107.3	43 - 135	
13.73		210								
14.25	14.19 14.33	241	523741	4,4'-DDE	0.000461	0.000461	0.020000			J
14.36		349								
15.39	15.33 15.47	11577	463071	Endrin	0.025002	0.025002	0.020000			
15.54	15.48 15.62	198	393458	4,4'-DDD	0.000504	0.000504	0.020000			J
15.86		142								
16.14	16.08 16.22	14102	454781	4,4'-DDT	0.031009	0.031009	0.020000			
16.78	16.71 16.85	228	348470	Endrin Aldehyde	0.000655	0.000655	0.020000			J
17.17		486								
17.44		129								
17.53		233								
17.70		258								
18.30	18.24 18.38	414	457258	Endrin Ketone	0.000905	0.000905	0.020000			J
18.91		133								
18.96		211								
20.40	20.33 20.47	15832	408350	Decachlorobiphenyl	0.038771	0.038771		97.9	43 - 144	

Data File: /chem/tracegc84.i/j100528t_2C.b/205jSEQ-CCV2.d

Date : 04-JUN-2010 18:46

Client ID: INDC3KP

Sample Info: SEQ-CCV2

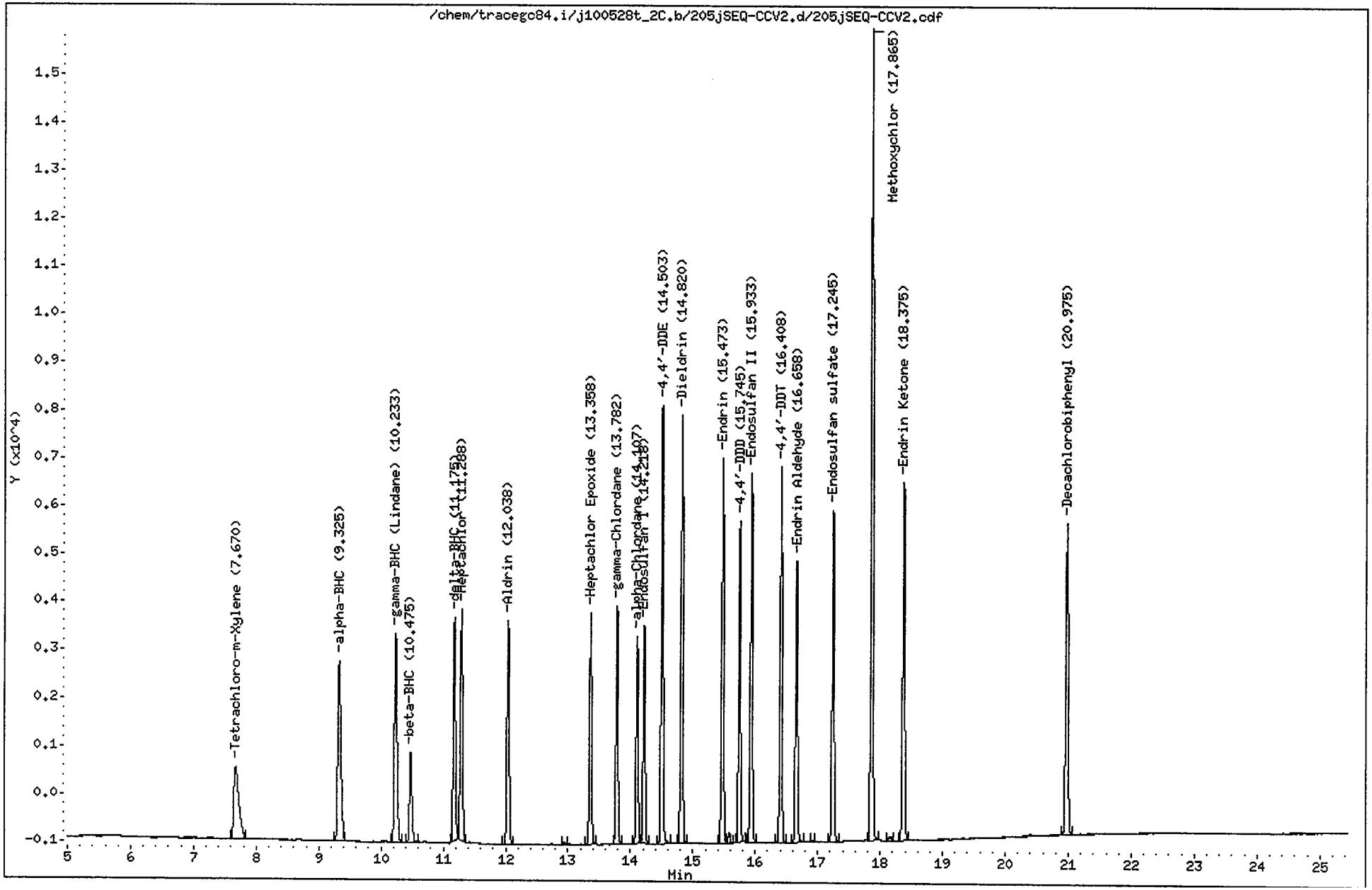
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3KP
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 04-JUN-2010 18:46 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3KP

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.43			9115								
2.40			119								
3.34			165								
7.67	7.61	7.75	8668	416798	Tetrachloro-m-Xylene	0.020000	433405	-4.0	20.0		
9.32	9.26	9.40	12932	607758	alpha-BHC	0.020000	646580	-6.4	20.0		
10.23	10.17	10.31	12525	585542	gamma-BHC (Lindane)	0.020000	626230	-6.9	20.0		
10.48	10.41	10.55	5305	248610	beta-BHC	0.020000	265230	-6.7	20.0		
11.18	11.11	11.25	11393	551235	delta-BHC	0.020000	569652	-3.3	20.0		
11.29	11.22	11.36	12391	579497	Heptachlor	0.020000	619542	-6.9	20.0		
12.04	11.97	12.11	11603	542192	Aldrin	0.020000	580167	-7.0	20.0		
12.94			109								
13.36	13.29	13.43	10906	511912	Heptachlor Epoxide	0.020000	545315	-6.5	20.0		
13.78	13.71	13.85	10985	513150	gamma-Chlordane	0.020000	549258	-7.0	20.0		
14.11	14.04	14.18	9510	446248	alpha-Chlordane	0.020000	475492	-6.6	20.0		
14.22	14.15	14.29	10192	477982	Endosulfan I	0.020000	509623	-6.6	20.0		
14.50	14.43	14.57	19979	468602	4,4'-DDE	0.040000	499464	-6.6	20.0		
14.82	14.75	14.89	19862	461929	Dieldrin	0.040000	496540	-7.5	20.0		
15.47	15.40	15.54	18161	408649	Endrin	0.040000	454022	-11.1	20.0		
15.58			478								
15.74	15.67	15.81	14262	340626	4,4'-DDD	0.040000	356540	-4.7	20.0		
15.93	15.86	16.00	17291	404930	Endosulfan II	0.040000	432264	-6.8	20.0		
16.41	16.33	16.47	16707	405929	4,4'-DDT	0.040000	417687	-2.9	20.0		
16.66	16.59	16.73	13516	316985	Endrin Aldehyde	0.040000	337892	-6.6	20.0		
16.92			96								
17.24	17.17	17.31	15512	366674	Endosulfan sulfate	0.040000	387790	-5.8	20.0		
17.86	17.79	17.93	37540	182916	Methoxychlor	0.200000	187702	-2.6	20.0		
18.15			257								
18.38	18.30	18.44	17421	419519	Endrin Ketone	0.040000	435530	-3.8	20.0		
20.98	20.90	21.04	16588	406698	Decachlorobiphenyl	0.040000	414710	-2.0	20.0		

Data File: /chem/tracegc84.i/j100528t_2C.b/206jSEQ-PEM2.d

Page 1

Date : 04-JUN-2010 19:15

Client ID: PEMKP

Instrument: tracegc84.i

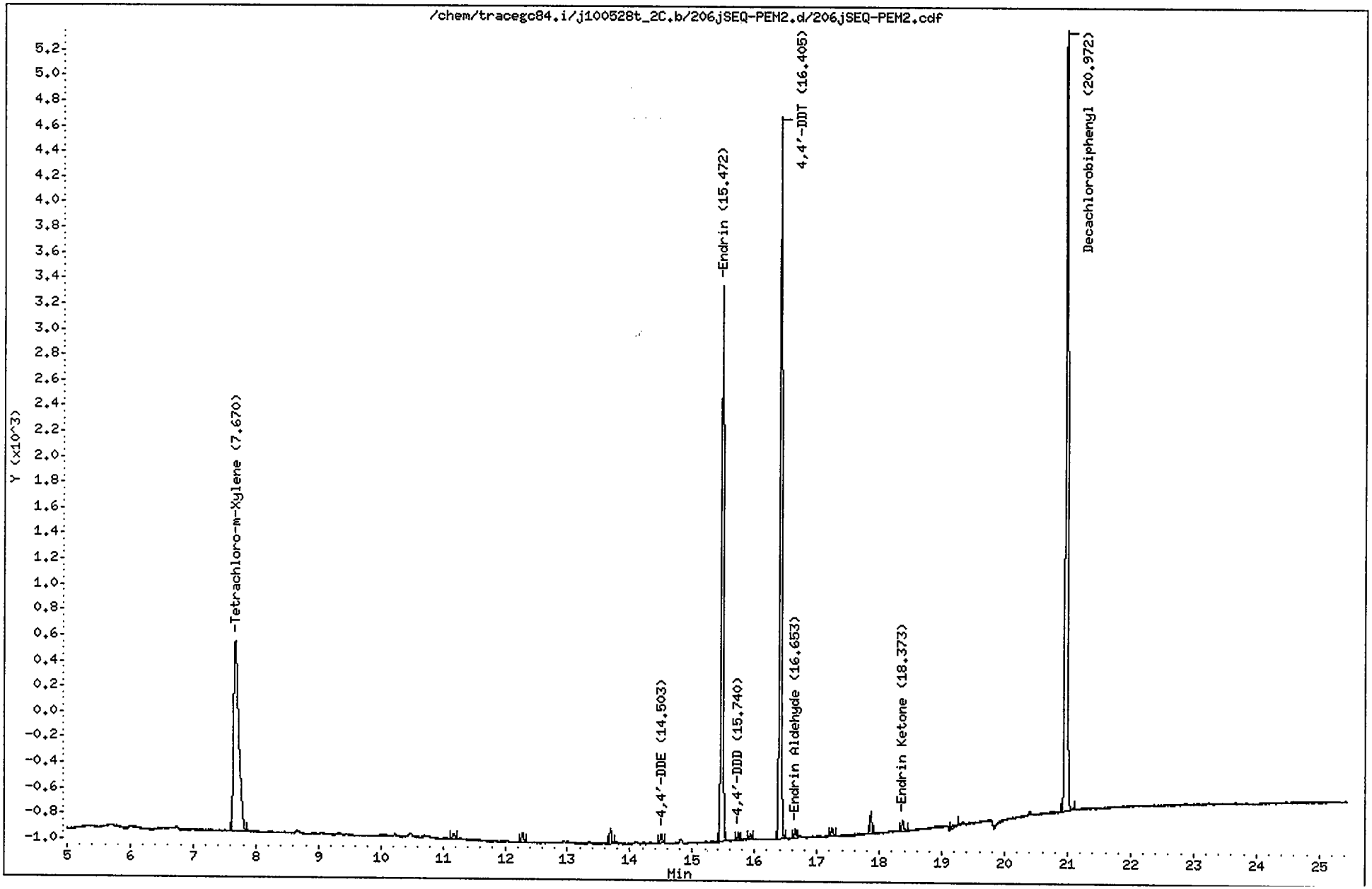
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMKP
Sample Type : SAMPLE Sublist : PEM
Inj Date : 04-JUN-2010 19:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : PEMKP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.43			8580								
2.40			119								
7.67	7.61	7.75	8565	416798	Tetrachloro-m-Xylene	0.020549	0.020549		103.8	43 - 135	
11.18			128								
12.28			183								
13.69			271								
14.50	14.43	14.57	166	468602	4,4'-DDE	0.000355	0.000355	0.020000			J
15.47	15.40	15.54	9848	408649	Endrin	0.024098	0.024098	0.020000			
15.74	15.67	15.81	125	340626	4,4'-DDD	0.000368	0.000368	0.020000			J
15.93			91								
16.40	16.33	16.47	12160	405929	4,4'-DDT	0.029956	0.029956	0.020000			
16.65	16.59	16.73	156	316985	Endrin Aldehyde	0.000493	0.000493	0.020000			J
17.24			148								
17.86			371								
18.37	18.30	18.44	210	419519	Endrin Ketone	0.000501	0.000501	0.020000			J
19.23			106								
20.97	20.90	21.04	15851	406698	Decachlorobiphenyl	0.038976	0.038976		98.4	43 - 144	

Data File: /chem/tracegc84.i/j100528u.b/213jSEQ-CCV3.d

Page 1

Date : 04-JUN-2010 22:37

Client ID: INDC3KR

Instrument: tracegc84.i

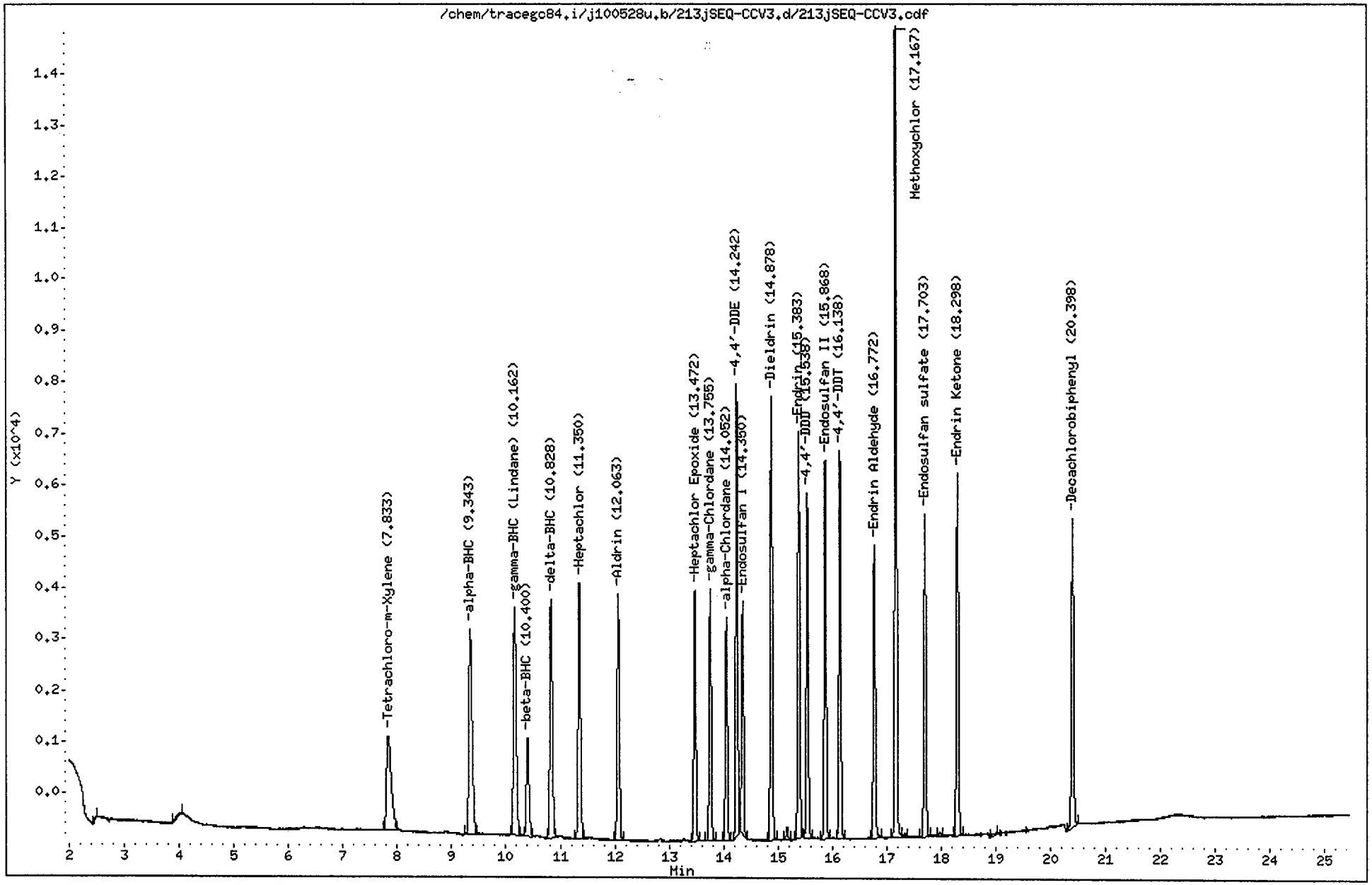
Sample Info: SEQ-CCV3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3KR
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 04-JUN-2010 22:37 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528u.b/8081A_clpestv6.m
Misc. Info : INDC3KR

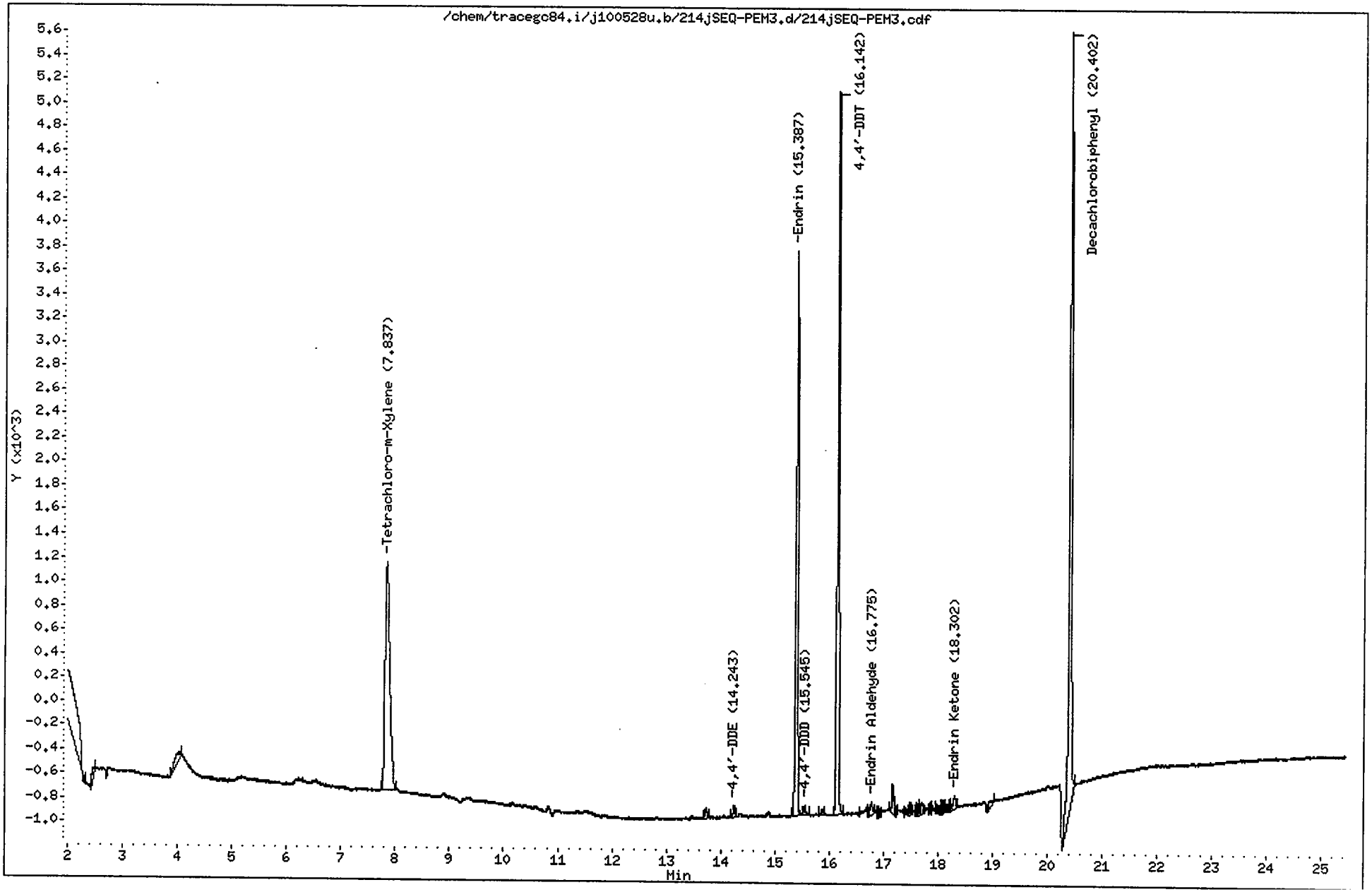
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.35			173								
1.46			34496								
2.48			245								
4.02			383								
7.83	7.77	7.91	11185	522758	Tetrachloro-m-Xylene	0.020000	559275	-7.0	20.0		
9.34	9.29	9.43	16856	775960	alpha-BHC	0.020000	842778	-8.6	20.0		
10.16	10.11	10.25	15709	729192	gamma-BHC (Lindane)	0.020000	785438	-7.7	20.0		
10.40	10.34	10.48	6426	300532	beta-BHC	0.020000	321307	-6.9	20.0		
10.83	10.77	10.91	14615	689518	delta-BHC	0.020000	730755	-6.0	20.0		
11.35	11.29	11.43	14911	695465	Heptachlor	0.020000	745560	-7.2	20.0		
12.06	12.01	12.15	13614	636570	Aldrin	0.020000	680680	-6.9	20.0		
13.47	13.42	13.56	12520	593700	Heptachlor Epoxide	0.020000	625983	-5.4	20.0		
13.76	13.70	13.84	12614	594875	gamma-Chlordane	0.020000	630690	-6.0	20.0		
14.05	14.00	14.14	10961	516712	alpha-Chlordane	0.020000	548067	-6.1	20.0		
14.24	14.19	14.33	21123	523741	4,4'-DDE	0.040000	528063	-0.8	20.0		
14.35	14.29	14.43	11409	548162	Endosulfan I	0.020000	570430	-4.1	20.0		
14.88	14.82	14.96	21751	515556	Dieldrin	0.040000	543782	-5.5	20.0		
15.17			588								
15.38	15.33	15.47	19994	463071	Endrin	0.040000	499844	-7.9	20.0		
15.54	15.48	15.62	16088	393458	4,4'-DDD	0.040000	402196	-2.2	20.0		
15.87	15.81	15.95	18698	450326	Endosulfan II	0.040000	467440	-3.8	20.0		
16.14	16.08	16.22	18373	454781	4,4'-DDT	0.040000	459314	-1.0	20.0		
16.77	16.71	16.85	14616	348470	Endrin Aldehyde	0.040000	365409	-4.9	20.0		
17.17	17.11	17.25	38632	194359	Methoxychlor	0.200000	193158	0.6	20.0		
17.34			221								
17.70	17.65	17.79	16025	392055	Endosulfan sulfate	0.040000	400625	-2.2	20.0		
17.98			216								
18.30	18.24	18.38	18129	457258	Endrin Ketone	0.040000	453224	0.9	20.0		
19.00			227								
20.40	20.33	20.47	15962	408350	Decachlorobiphenyl	0.040000	399039	2.3	20.0		

6/7/10

Data File: /chem/tracegc84.i/j100528u.b/214jSEQ-PEM3.d
Date : 04-JUN-2010 23:06
Client ID: PEMKR
Sample Info: SEQ-PEM3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMKR
Sample Type : SAMPLE Sublist : PEM
Inj Date : 04-JUN-2010 23:06 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528u.b/8081A_clpestv6.m
Misc. Info : PEMKR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

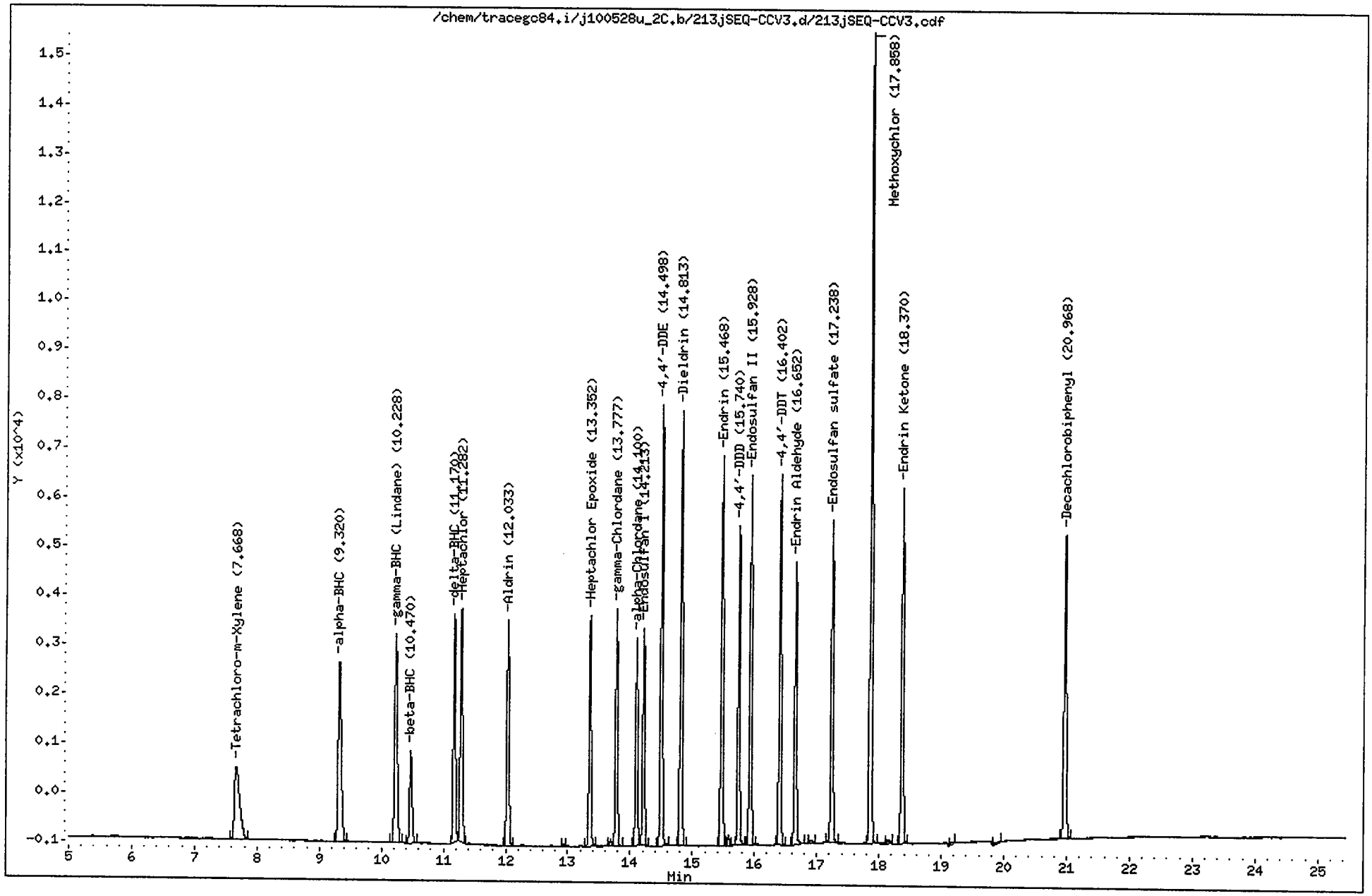
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.36			528								
1.46			59408								
2.46			213								
4.00			556								
7.84	7.77	7.91	11367	522758	Tetrachloro-m-Xylene	0.021745	0.021745		109.8	43 - 135	
13.73			246								
14.24	14.19	14.33	243	523741	4,4'-DDE	0.000464	0.000464	0.020000			J
15.39	15.33	15.47	11916	463071	Endrin	0.025732	0.025732	0.020000			
15.54	15.48	15.62	191	393458	4,4'-DDD	0.000486	0.000486	0.020000			J
15.87			131								
16.14	16.08	16.22	14576	454781	4,4'-DDT	0.032051	0.032051	0.020000			
16.78	16.71	16.85	335	348470	Endrin Aldehyde	0.000960	0.000960	0.020000			J
17.16			650								
17.49			222								
17.63			182								
17.71			261								
18.07			153								
18.30	18.24	18.38	368	457258	Endrin Ketone	0.000804	0.000804	0.020000			J
19.01			264								
20.40	20.33	20.47	18158	408350	Decachlorobiphenyl	0.044467	0.044467		112.3	43 - 144	

Data File: /chem/tracegc84.i/j100528u_2C.b/213jSEQ-CCV3.d
Date : 04-JUN-2010 22:37
Client ID: INDC3KR
Sample Info: SEQ-CCV3
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3KR
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 04-JUN-2010 22:37 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528u_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3KR

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.31			105								
1.45			8618								
7.67	7.61	7.75	8623	416798	Tetrachloro-m-Xylene	0.020000	431170	-3.4	20.0		
9.32	9.26	9.40	12762	607758	alpha-BHC	0.020000	638090	-5.0	20.0		
10.23	10.17	10.31	12409	585542	gamma-BHC (Lindane)	0.020000	620430	-6.0	20.0		
10.47	10.41	10.55	5214	248610	beta-BHC	0.020000	260717	-4.9	20.0		
11.17	11.11	11.25	11288	551235	delta-BHC	0.020000	564418	-2.4	20.0		
11.28	11.22	11.36	12269	579497	Heptachlor	0.020000	613433	-5.9	20.0		
12.03	11.97	12.11	11469	542192	Aldrin	0.020000	573440	-5.8	20.0		
12.94			95								
13.35	13.29	13.43	10765	511912	Heptachlor Epoxide	0.020000	538253	-5.1	20.0		
13.69			275								
13.78	13.71	13.85	10791	513150	gamma-Chlordane	0.020000	539552	-5.1	20.0		
14.10	14.04	14.18	9370	446248	alpha-Chlordane	0.020000	468480	-5.0	20.0		
14.21	14.15	14.29	10034	477982	Endosulfan I	0.020000	501688	-5.0	20.0		
14.50	14.43	14.57	19576	468602	4,4'-DDE	0.040000	489406	-4.4	20.0		
14.81	14.75	14.89	19556	461929	Dieldrin	0.040000	488890	-5.8	20.0		
15.47	15.40	15.54	17880	408649	Endrin	0.040000	446989	-9.4	20.0		
15.57			461								
15.74	15.67	15.81	13860	340626	4,4'-DDD	0.040000	346505	-1.7	20.0		
15.93	15.86	16.00	16832	404930	Endosulfan II	0.040000	420807	-3.9	20.0		
16.40	16.33	16.47	16167	405929	4,4'-DDT	0.040000	404187	0.4	20.0		
16.65	16.59	16.73	13104	316985	Endrin Aldehyde	0.040000	327605	-3.4	20.0		
16.91			127								
17.24	17.17	17.31	14989	366674	Endosulfan sulfate	0.040000	374733	-2.2	20.0		
17.86	17.79	17.93	36013	182916	Methoxychlor	0.200000	180065	1.6	20.0		
18.14			230								
18.37	18.30	18.44	16685	419519	Endrin Ketone	0.040000	417131	0.6	20.0		
19.19			104								
19.94			123								
20.97	20.90	21.04	15836	406698	Decachlorobiphenyl	0.040000	395909	2.7	20.0		

Data File: /chem/tracegc84.i/j100528u_2C.b/214jSEQ-PEM3.d

Date : 04-JUN-2010 23:06

Client ID: PEMKR

Instrument: tracegc84.i

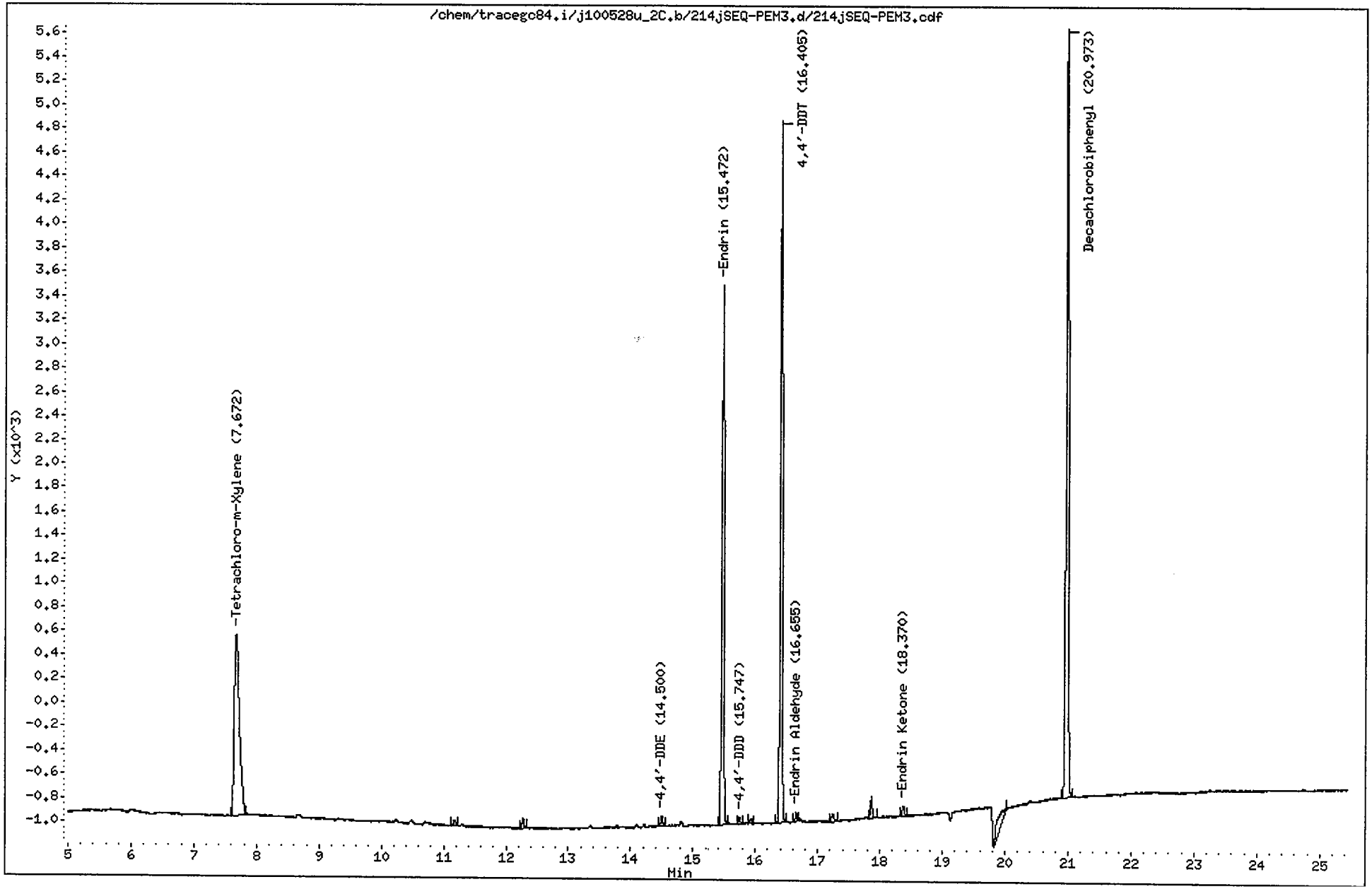
Sample Info: SEQ-PEM3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMKR
Sample Type : SAMPLE Sublist : PEM
Inj Date : 04-JUN-2010 23:06 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528u_2C.b/8081A_clpest2v6.m
Misc. Info : PEMKR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.43			8893								
7.67	7.61	7.75	8679	416798	Tetrachloro-m-Xylene	0.020823	0.020823		105.2	43 - 135	
11.18			125								
12.28			195								
14.50	14.43	14.57	162	468602	4,4'-DDE	0.000345	0.000345	0.020000			J
15.47	15.40	15.54	10087	408649	Endrin	0.024684	0.024684	0.020000			
15.75	15.67	15.81	125	340626	4,4'-DDD	0.000366	0.000366	0.020000			J
15.93			101								
16.40	16.33	16.47	12545	405929	4,4'-DDT	0.030904	0.030904	0.020000			
16.66	16.59	16.73	161	316985	Endrin Aldehyde	0.000507	0.000507	0.020000			J
17.25			186								
17.86			397								
18.37	18.30	18.44	199	419519	Endrin Ketone	0.000475	0.000475	0.020000			J
20.02			1068								
20.97	20.90	21.04	16536	406698	Decachlorobiphenyl	0.040659	0.040659		102.7	43 - 144	

COMPUCHEM a Division of Liberty Analytical Corp
GC EXTRACTABLES RUN LOG
LOGBOOK 4 N (4) 38

Instrument ID 84/85

Method: 8081A 8081B 8082 8082A 8151A

Sequence ID: h100524

Amt.Inj. 2 µL (1 µL per column)

Date: 5/24/10

SOM01.2 or Other:

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

RUN NO.	RUN LOG ID	GUIDE NUMBER	RUN LOG ID	DATE	COMPUCHEM #	CASE/SDG #	QA/QC STANDARD ID	CHEMIST	COMMENTS
1		1	-	5/24/10	Hexane	STD	NA	AHW	NA
2		2	✓	/ /	Hexane	↓			
3		3	-	/ /	0E024008 - PEM1	0023010			
4		4	✓	/ /	CAL1	0023001			
5		5	✓	/ /	2	0C26002			
6		6	✓	/ /	3	0E11005			
7		7	✓	/ /	4	0C26004			
8		8	✓	/ /	↓ 5	0C26005			
9		9	✓	/ /	ARC1	~~0E20004~~ 0D16008			
10		10	✓	/ /	↓ 2	~~0E18016~~ 0C020014			
11		11	✓	/ /	CAL6	0B24009			
12		12	✓	/ /	7	0B24010			
13		13	✓	/ /	8	0E14002			
14		14	✓	/ /	9	0B24013			
15		15	✓	/ /	↓ A	0B24014			
16		16	✓	/ /	ARC3	0E20004			
17		17	✓	/ /	4	0E18016			
18		18	✓	/ /	5	0E20010			
19		19	✓	/ /	6	0E17012			
20		20	✓	5/25/10	7	0C17011			

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: _____

Sequence ID: 0E24008

Hexane Lot No 71940

REVIEWED BY: _____

DATE 5/27/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: h100524 Date:

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REJECTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		21	-	5/25/10	0E24008-ICV1	0B23009	NA	AHW	H
2		22	-	↓ /	↓ ICV2	~~0B23~~ 0B01002	↓	↓	↓
3				/ /		AHW spk 10			
4				/ /					
5				/ /					
6				/ /					
7				/ /					
8				/ /					
9				/ /					
10				/ /					
11				/ /					
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: _____ Sequence ID: 0E24008 Hexane Lot No 71940

REVIEWED BY: _____ DATE 5/25/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: h100524d Date 5/25/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: (8081A 8081B 8082 8082A) 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST AHW 5/26/10	COMMENTS
1		S0	✓	5/25/10	SEQ-CCB2	0E07001	NA	~~BLK~~ AHW	
2		S1	✓	/ /	CCV2	0G14002			
3		S2	✓	/ /	CCV3	0E11005			
4		S3	✓	/ /	PEM2	0023010			
5	✓	S4	~~RJ~~	/ /	0051830-BLK1	1005130			
6		S5	✓	5/26/10	BS1				
7		S6	✓	/ /	MS1				
8	✓	S7	RJ	/ /	MSD1				
9		S8	✓	/ /	1005130-01				
10		S9	✓	/ /	02				
11		60	✓	/ /	03				
12		61	✓	/ /	04				
13		62	✓	/ /	05				
14		63	✓	/ /	06				
15		64	✓	/ /	SEQ-IBL3	STD			
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

AHW 6/2/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KPH DATE 6/2/10

03/17/10: jad

5670

Supervisor/Manager Review: _____ pages ____ to ____ Date _____

711

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: h100524e Date 5/26/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		65	–	5/26/10	SEQ-CCB3	0607001	NA	AHW	
2		66	–	/ /	CCU4	0611005			
3		67	–	/ /	PEM3	0023010			
4		68	/	/ /	1005130-07	1005130			
5		69	/	/ /	08				
6		70	/	/ /	09				
7		71	/	/ /	10				
8		72	/	/ /	11				
9		73	/	/ /	12				
10		74	/	/ /	13				
11		75	/	/ /	14				
12		76	/	/ /	15				
13		77	/	/ /	16				
14		78	/	/ /	SEQ-IBL4	0607001			
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 6/2/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/2/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: h100524C Date 5/26/10

GC EXTRACTABLES RUN LOG

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A Amt.Inj. 2 µL (1 µL per column)

SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		79	-	5/26/10	SEQ-CCB4	0E07001	NA	AHW	
2		80	-	/ /	CCV5	0E011005			
3		81	-	/ /	PEM4	0E21002			
4		82	/	/ /	1005130-17	1005130			
5		83	/	/ /	18				
6		84	/	/ /	19				
7		85	/	/ /	20				
8		86	/	/ /	0051719-BLK1	1005129			
9		87		/ /	BS1				
10		88		/ /	MS1				
11		89		/ /	MSD1				
12		90		/ /	1005129-01				
13		91		/ /	02				
14		92		/ /	SEQ-IBL5	0E07001			
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

AHW 6/2/10

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: AHW DATE 6/2/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: h100529 Date 5/26/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: ~~8081A~~ 8081B 8082 ~~8082A~~ ~~8151A~~ SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1	✓	93 ALL STDS	✓	5/26/10	SEQ-CCB5	0E07001	NA	AHW	
2	✓	94	✓	/ /	CCV6	0E11005			
3	✓	95		/ /	PEM5	0E21002			
4		96		/ /	1005129-03	1005129			
5		97		/ /	04				
6		98		/ /	05				
7		99		/ /	06				
8		100		/ /	07				
9		101		/ /	08				
10		102		/ /	09				
11		103		/ /	10				
12		104		/ /	11				
13		105		5/27/10	12				
14		106		/ /	SEQ-IBL6	0E07001			
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

AHW 6/2/10

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: AHW DATE 6/2/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 1100528 Date 5/28/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

714

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		1	✓	5/28/10	Hexane	STD	NA	AHW	NA
2		2	✓	/ /	Hexane	↓			↓
3		3	✓	/ /	0E27012 -PEM1	6E21002			PEMHA
4		4	✓	/ /	CAL 1	0C20001			INDC1 HA
5		5	✓	/ /	2	0C26002			2
6		6	✓	/ /	3	0E11005			3
7		7	✓	/ /	4	0C26004			4
8		8	✓	/ /	↓ 5	0C26005			↓ 5 ↓
9		9	✓	/ /	ARC1	0D16008			TOXAPH3HA
10		10	✓	/ /	↓ 2	0C02004			CHLOR03HA
11		11	✓	/ /	CAL6 ~~CAL7~~ AHW 6/1/10	0B24009			AR16601HA
12		12	✓	/ /	CAL7	0B24010			2
13		13	✓	/ /	8	0E14002			3
14		14	✓	/ /	9	0B24013			4
15		15	✓	AHW 6/1/10 /	↓ A	0B24014			↓ 5 ↓
16		16	✓	5~~5~~/29/10	ARC3	0E20004			AR12213HA
17		17	✓	/ /	4	0E18016			1232
18		18	✓	/ /	5	0E20010			1242
19		19	✓	/ /	6	0E17012			1248
20		20	✓	/ /	↓ 7	0C17011			1254 ↓

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: N/A c 6/1/10 Sequence ID: 0E27012 Hexane Lot No 71940

REVIEWED BY: _____ DATE 6/1/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp | Instrument ID 84/85 | Sequence ID: 100528 | Date 5/29/10

GC EXTRACTABLES RUN LOG

LOGBOOK 4 N (4) 38 | Method: ~~8081A~~ 8081B 8082 ~~8082A~~ 8151A | Amt.Inj. 2 µL (1 µL per column) | SOM01.2 or Other: _____

715

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		21	✓	5/29/10	OE27012-ICV1	OE25016	NA	AHW	PESTCHKHA
2		22	✓	〃	〃 ICV2	0801002	〃	〃	PCBCHKHA
3				/ /					
4				/ /					
5				/ /					
6				/ /					
7				/ /					
8				/ /					
9				/ /					
10				/ /					
11				/ /					
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: _____ Sequence ID: OE27012 Hexane Lot No 71940

REVIEWED BY: _____ DATE 6/1/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 1106528a Date 5/29/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		23	-	5/29/10	SEQIBL1	0607001	PIBLK	AHW	
2		24	-	/ /	CCB1	↓	PIBLKJCSD		
3		25	-	/ /	CCV1	0E11005	INDC3JD		
4		26	-	/ /	PEM1	0E21002	PEMJD		
5		27	-	/ /	0051830-BLK1	1005199	NA		
6		28		/ /	0051719 ~~0051707~~ BLK1 AHW 6/2/10				
7		29	-	/ /	0051830 - MSD1				
8		30		/ /	0052711 - BLK1				
9		31		/ /	BS1				
10		32		/ /	BSD1				
11		33		/ /	1005199-01	↓	↓		
12		34	D	4 /	SEQ-IBL2	0607001	PIBLK	↓	
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

AHW 6/2/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/2/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 1005286 Date 5/29/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1	✓	35 AHW 6/2/10	✓ AHW 6/2/10	5/29/10	SEQ-CCB2	0607001	PIBLKWF	AHW	
2		36	✓	/ /	CCU2	0611005	INDC3JF		
3		37	✓	/ /	PEM2	0621002	PEMJF		
4		38		/ /	1005130-12	1005136	NA		
5		39		/ /	13				
6		40		/ /	14				
7		41		/ /	15				
8		42		/ /	16				
9		43		/ /	17				
10		44		/ /	18				
11		45		/ /	19				
12		46		/ /	20				
13		47		/ /	SEQ-IBL3	0607001	PIBLK		
~~14~~				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

AHW 6/2/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: AHW DATE 6/2/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp

GC EXTRACTABLES RUN LOG

LOGBOOK 4 N (4) 38

Instrument ID 84/85

Method: 8081A 8081B (circled) 8082 8082A 8151A

Sequence ID: J100518t

Amt.Inj. 2 µL (1 µL per column)

Date 6/4/10

SOM01.2 or Other: ______

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		204	/	6/4/10	SER-CCM2	0E07001	PIBKICOKP	[illegible]	
2		205	/	/ /	-CCU2	0E11005	1W0C5KP		
3		206	/	/ /	-DEM2	0E21002	DEMHP		
4		207	/	/ /	100515U-17	100515U			
5		~~208~~	/	/ /	18				
6		~~209~~ 6/7/10	~~/~~	/ /	19				
7		210	/	/ /	20				
8		211		/ /	SER-~~[illegible]~~ 16C3	0E07001			
9				/ /					
10				/ /					
11				/ /					
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 6/7/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA

Sequence ID: NA

Hexane Lot No 71940

REVIEWED BY: KEH

DATE 6/7/10

03/17/10: jad

719

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 100528a Date 6/4/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		212	✓	6/4/10	SEQ-CC03	UE07001	PIBLKWKR	LO	
2		213	✓	/ /	-CC03	UE11005	LOWLVKR		
3		214	✓	/ /	-PEM3	UE14002	SDMKR		
4		215		/ /	100525 10-BLK	100534			
5		216		6/5/10	-BS1				
6		217		/ /	-MS1				
7		218		/ /	-MSD1				
8		219		/ /	100534-06				
9		220		/ /	07				
10		221		/ /	08				
11		222		/ /	09				
12		223		/ /	10				
13		224		/ /	11				
14		225		/ /	SEQ-LCS4	UE07007			
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KeH 6/7/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KeH DATE 6/7/10

03/17/10: jad

4. Raw QC Data

    a. Blank Data

    b. Laboratory Control Sample Data

    c. Matrix Spike Data

    d. Matrix Spike Duplicate Data

a. Blank Data

Arranged by type of blank

i) Method blanks shall be in chronological order, by extraction date.
ii) Instrument blanks shall be in chronological order, by GC column and instrument.
iii) Sulfur cleanup blanks (if needed) shall be in chronological order, by date of analysis.

- Tabulated Results (Form I)
- Chromatograms and date system printout(s) for each GC column and instrument used for analysis.

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKBJ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 0051830-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-85-7	beta-BHC	1.7	U
319-84-6	alpha-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	3.3	U
72-55-9	4,4'-DDE	3.3	U
50-29-3	4,4'-DDT	3.3	U
60-57-1	Dieldrin	3.3	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
72-20-8	Endrin	3.3	U
7421-93-4	Endrin Aldehyde	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor Epoxide	1.7	U
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	3.3	U
5103-74-2	gamma-Chlordane	1.7	U
5103-71-9	alpha-Chlordane	1.7	U

Data File: /chem/tracegc84.i/j100528a.b/027j0051830-BLK1.d

Date : 29-MAY-2010 05:23

Client ID: PBLKBJ

Instrument: tracegc84.i

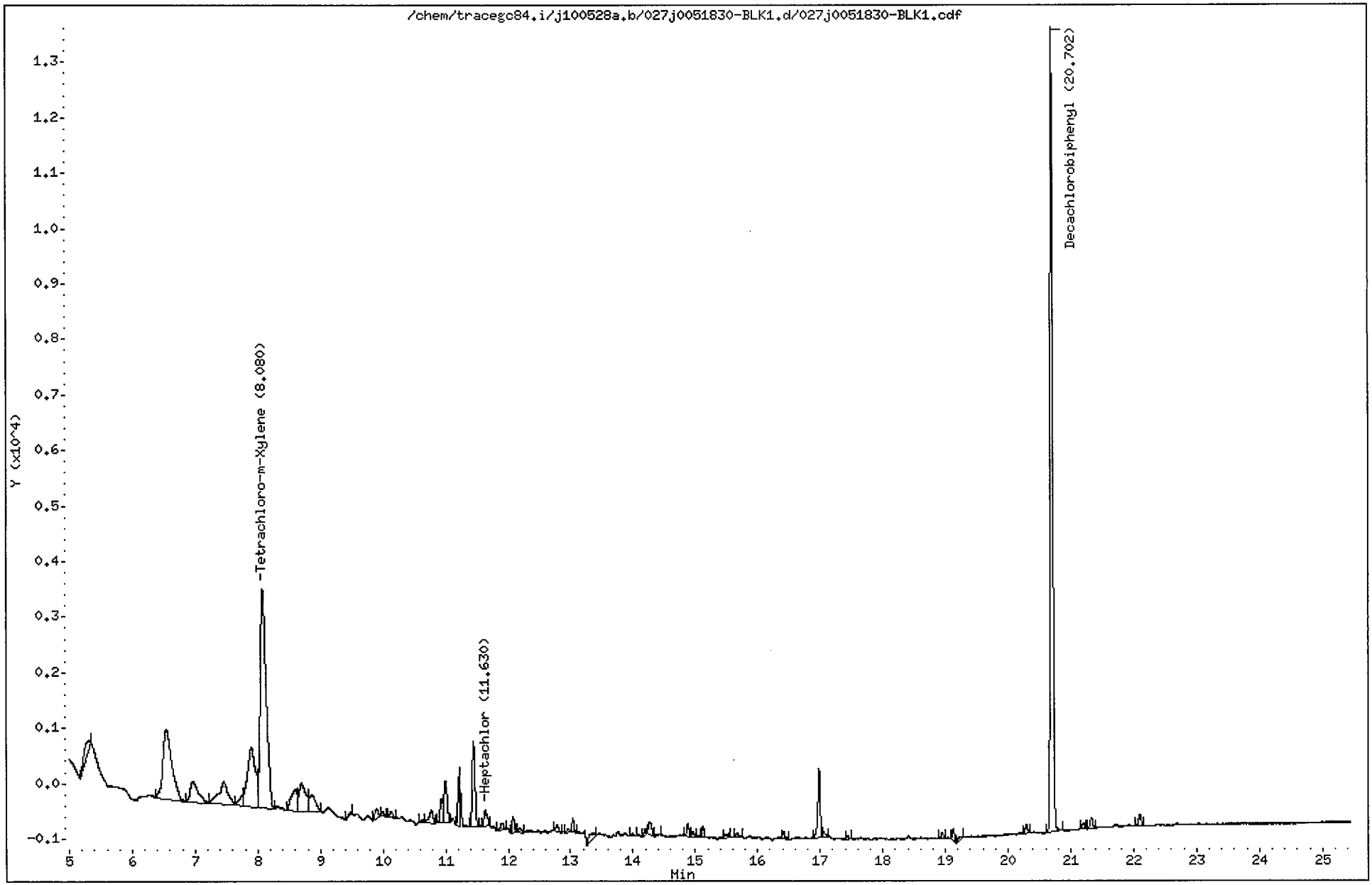
Sample Info: 0051830-BLK1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051830-BLK1 Client Smp Id : PBLKBJ
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 05:23 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528a.b/8081A_clpestv6.m
Misc. Info : PBLKBJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57		168332								
2.21		545454								
3.16		5130								
3.21		21450								
3.87		1690								
4.74		7179								
5.31		1578								
6.54		12530								
6.96		3210								
7.46		4075								
7.76		788								
7.90		9485								
8.08	8.01 8.15	25963	522758	Tetrachloro-m-Xylene	0.049665	8.277579		82.8	70 - 125	
8.60		2600								
8.70		3876								
8.87		2008								
9.47		154								
9.89		603								
9.99		258								
10.13		342								
10.63		142								
10.77		929								
10.94		1151								
11.00		2635								
11.22		1173								
11.45		4792								
11.63	11.55 11.69	964	695465	Heptachlor	0.001385	0.230781	1.700000			J
11.90		447								
12.08		683								
12.19		233								
12.78		396								
12.96		165								
13.04		565								
13.37		757								
13.99		138								
14.20		197								
14.27		848								

6/3/10

CompuChem

Lab Smp Id : 0051830-BLK1 Client Smp Id : PBLKBJ
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 05:23 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528a.b/8081A_clpestv6.m
Misc. Info : PBLKBJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.39		121								
14.88		493								
14.96		272								
15.12		406								
15.48		239								
15.67		249								
16.42		376								
16.98		3282								
17.06		318								
17.45		145								
18.95		256								
19.12		508								
19.21		241								
20.29		396								
20.70	20.63 20.77	40002	408350	Decachlorobiphenyl	0.097958	16.32627		81.6	55 - 130	
21.20		293								
21.33		560								
22.10		620								

Data File: /chem/tracegc84.i/j100528a_2C.b/027j0051830-BLK1.d

Date : 29-MAY-2010 05:23

Client ID: PBLKBJ

Instrument: tracegc84.i

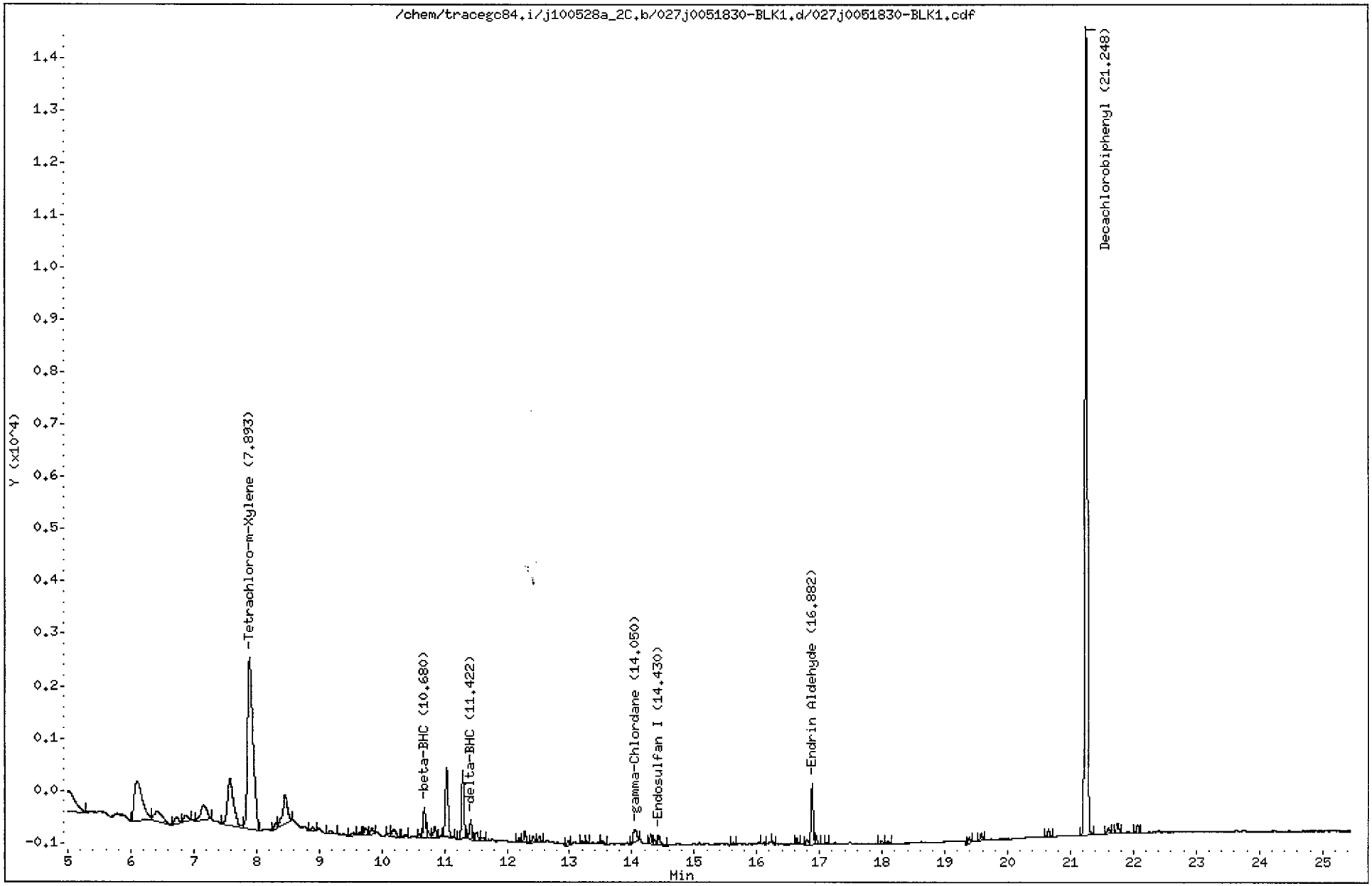
Sample Info: 0051830-BLK1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051830-BLK1 Client Smp Id : PBLKBJ
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 05:23 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKBJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.55			64794								
2.01			474364								
3.09			384								
3.14			507								
3.56			99								
4.29			845								
5.01			4401								
6.11			6993								
6.42			1847								
6.72			623								
6.88			528								
7.15			1865								
7.58			6088								
7.89	7.82	7.96	19796	416798	Tetrachloro-m-Xylene	0.047493	7.915515		79.2	70 - 125	
8.30			370								
8.46			2969								
8.89			230								
9.19			212								
9.54			168								
9.64			132								
9.74			433								
9.84			341								
10.12			164								
10.19			625								
10.38			119								
10.60			170								
10.68	10.63	10.77	1551	248610	beta-BHC	0.006239	1.039781	0.851000			M2
10.74			331								
10.85			628								
11.04			4193								
11.29			3399								
11.42	11.33	11.47	990	551235	delta-BHC	0.001794	0.299026	1.700000			J
11.51			486								
11.60			206								
12.20			167								
12.29			510								
12.42			321								

KEH 6/3/10

CompuChem

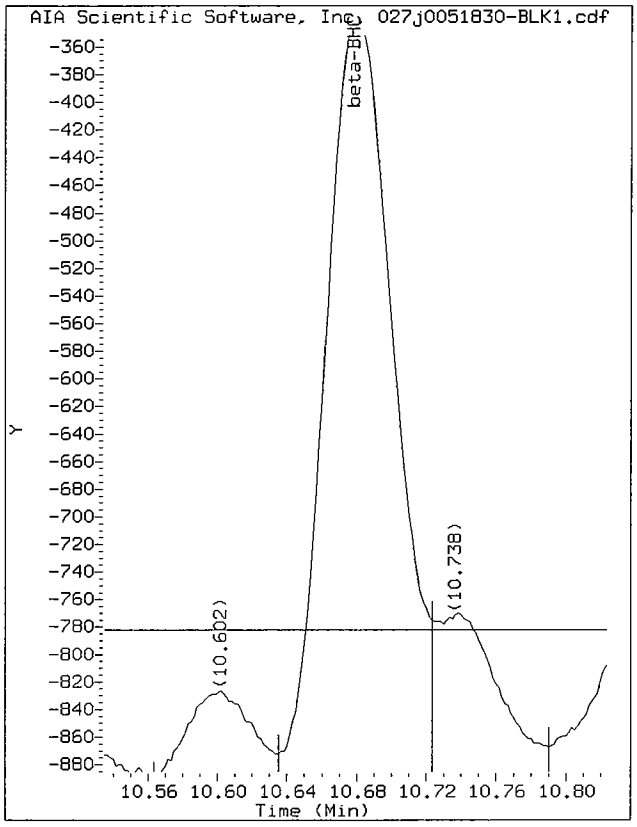
Lab Smp Id : 0051830-BLK1 Client Smp Id : PBLKBJ
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 05:23 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKBJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.52		268								
12.98		190								
13.20		135								
13.27		98								
13.52		211								
14.05	13.95 14.09	1023	513150	gamma-Chlordane	0.001992	0.331937	1.700000			J
14.30		464								
14.37		236								
14.43	14.39 14.53	571	477982	Endosulfan I	0.001193	0.198752	1.700000			J
15.62		120								
16.11		99								
16.25		105								
16.64		242								
16.80		209								
16.88	16.83 16.97	2603	316985	Endrin Aldehyde	0.008209	1.368098	3.300000			J
16.94		358								
17.11		102								
17.99		137								
18.09		130								
19.38		265								
19.58		313								
20.65		353								
21.25	21.18 21.32	41507	406698	Decachlorobiphenyl	0.102056	17.00937		85.0	55 - 130	
21.60		280								
21.75		461								
22.07		452								

Manually Integrated Peaks



Start: 10.63 Stop: 10.72

CompuChem

ASSIGNED TO B. Patterson

EXTRACTION WORKSHEET

DATE/TIME EXTRACTED: 5-19-10 1050

PEST/PCB IN S/S/S BY METHOD 3550B/C for 8081/8082

EMPLOYEE ID # 2713

5-24-1

BATCH NO.: 0051830

730

	COMPUCHEM SAMPLE NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE WEIGHT (g)	FINAL VOLUME (ml)	COMMENTS
1	0051830-BLK1	PBLKBJ	MB	30.0	5.0	** Sample Need to be GPC'd **
2	0051830-BS1	PBJLCS	LCS	30.0		
3	0051830-MS1	SS50-0-1MS	MS	30.0		ML 5/24/10
4	0051830-MSD1	SS50-0-1MSD	MSD	30.0		
5	1005130-01	SS23-00-01	SAMPLE	30.0		
6	1005130-02	SB23-1.5-2	SAMPLE	30.0		GPC (3640A) PERFORMED? (Y) / N
7	1005130-03	SS24-0-1	SAMPLE	30.0		FLORISIL PERFORMED? Y (N)
8	1005130-04	SB24-3-4	SAMPLE	30.0		
9	1005130-05	SS49-0-1	SAMPLE	30.0		ML 5/24/10
10	1005130-06	SB49-11-12	SAMPLE	30.0		
11	1005130-07	SS50-0-1	SAMPLE	30.0		QC
12	1005130-08	SB47-14-15	SAMPLE	30.0		
13	1005130-09	SS47-0-1	SAMPLE	30.0		
14	1005130-10	SS11-0-1	SAMPLE	30.0		ML 5-24-10
15	1005130-11	SB11-11-12	SAMPLE	30.0		
16	1005130-12	SB48-7-8	SAMPLE	30.0		* Re-GPC
17	1005130-13	SS48-0-1	SAMPLE	30.0		GPC Run Date: 5-27-10
18	1005130-14	SS18-0-1	SAMPLE	30.0		GPC #: 6
19	1005130-15	SB18-12-13	SAMPLE	30.0		GPC Calib. Date: 5-24-10
20	1005130-16	SS25-0-1	SAMPLE	30.0		
21	1005130-17	SB25-3-4	SAMPLE	30.0		
22	1005130-18	SS08-0-1	SAMPLE	30.0		
23	1005130-19	SB08-6-7	SAMPLE	30.0		
24	1005130-20	SS05-0-1	SAMPLE	30.0	5.0	GPC Run Date: 5-21-10
25						GPC # 2
26		ML 5/24/10				GPC Calib Date: 5-20-10

	SURROGATE/SPIKE ADDITION	AMOUNT	LOT #
	SURROGATE	449	0.5 ml	OE07004
	SPIKE	4030	1.0 ml	OE14001

BFP 5-19-10
INITIALS DATE

FINAL VOLUME VERIFIED: ML

REVIEWED BY: B. Patterson

Witness AL 5-19-10
Initials Date

Analysts initials. Extract BFP KD BP N2 BP Bottle up ML/VG

Balance: Sartorius BL310

Manufacturers and lot numbers of reagents/solvents used 50/50 CH_2Cl_2/CH_3COCH_3-2XX8-649-3, Na_2SO_4-2XX8-684-4, C_6H_{14}-73002

4/1/10:jad

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKHI

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/25/10

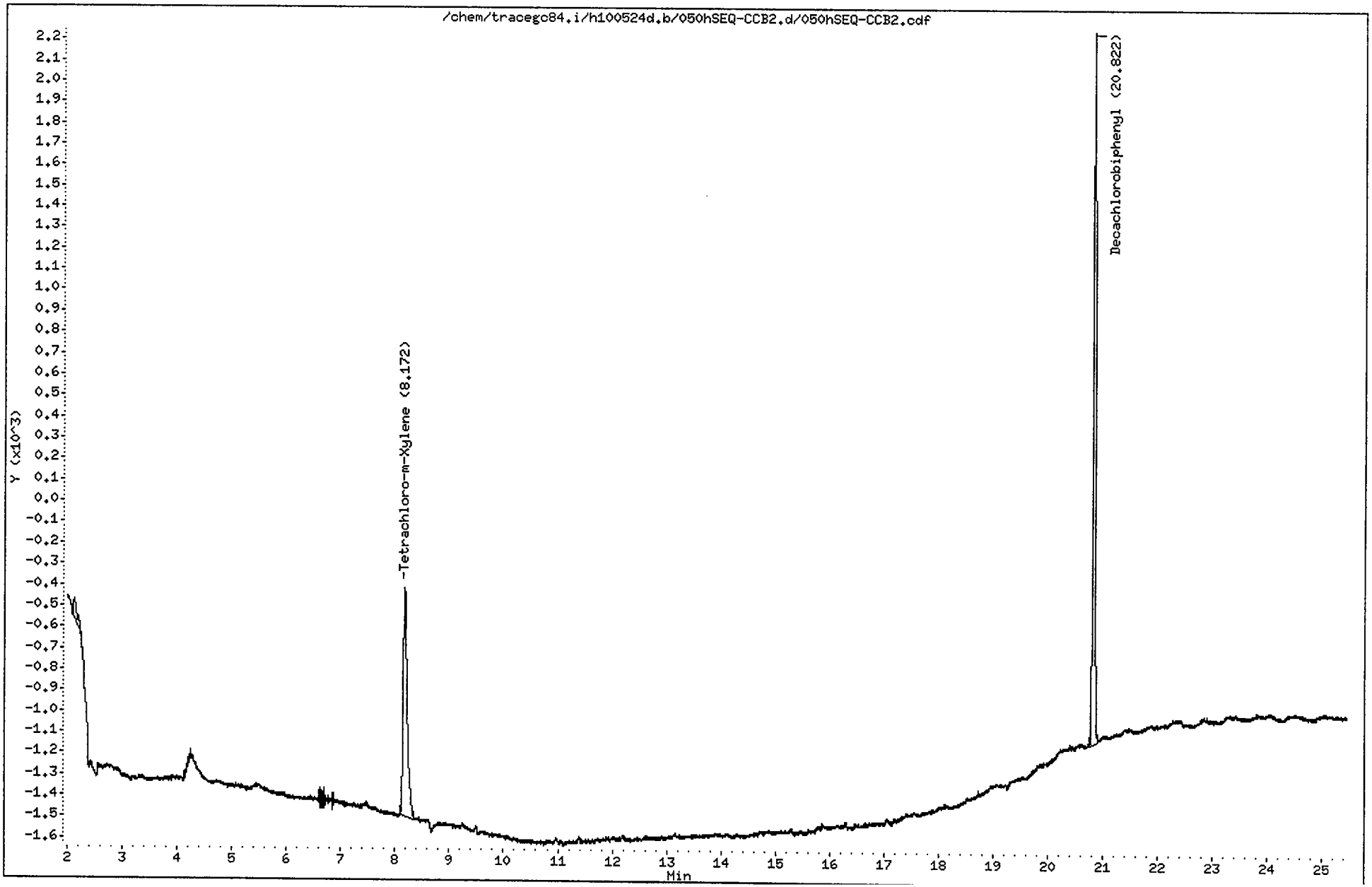
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/h100524d.b/050hSEQ-CCB2.d
Date : 25-MAY-2010 21:57
Client ID: PIBLKHI
Sample Info: SEQ-CCB2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKHI
Sample Type : INSTBLANK Sublist : all
Inj Date : 25-MAY-2010 21:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : PIBLKHIHJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.42			149						
1.52			33156						
2.12			416						
4.22			124						
8.17	8.11	8.25	5635	539702	Tetrachloro-m-Xylene	0.010441	0.020882		
20.82	20.77	20.91	9185	444411	Decachlorobiphenyl	0.020668	0.041335		

AHW
5/26/10

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKHJ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/25/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/h100524d_2C.b/050hSEQ-CCB2.d

Date : 25-MAY-2010 21:57

Client ID: PIBLKHJ

Instrument: tracegc84.i

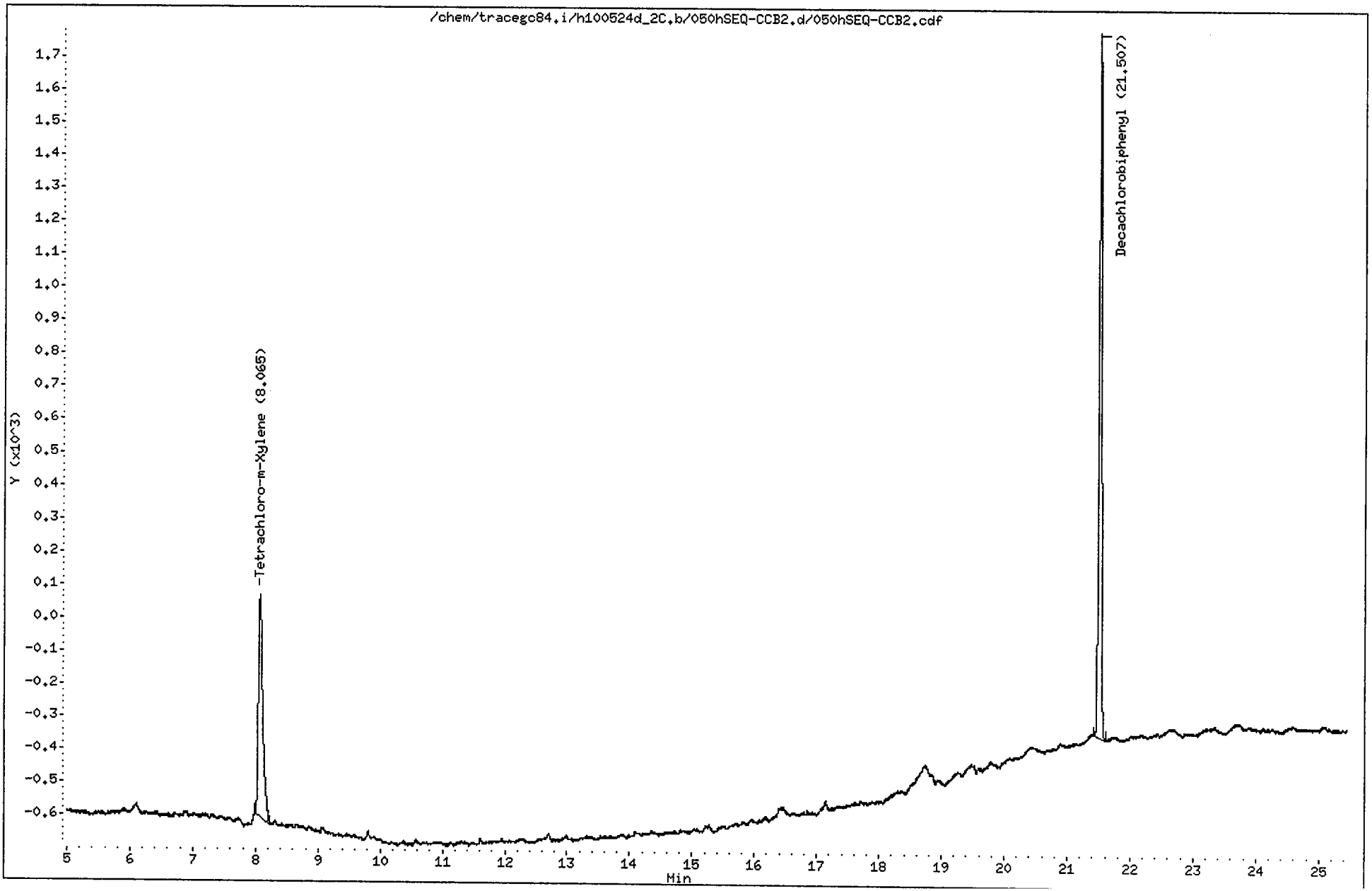
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKHJ
Sample Type : INSTBLANK Sublist : all
Inj Date : 25-MAY-2010 21:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKHIHJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.53			1997						
1.78			119						
1.95			197						
8.06	8.01	8.15	3270	345165	Tetrachloro-m-Xylene	0.009471	0.047354		
21.51	21.45	21.59	6133	301734	Decachlorobiphenyl	0.020326	0.101629		

AHW
5/26/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKHK

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/h100524e.b/065hSEQ-CCB3.d

Date : 26-MAY-2010 05:10

Client ID: PIBLKHK

Instrument: tracegc84.i

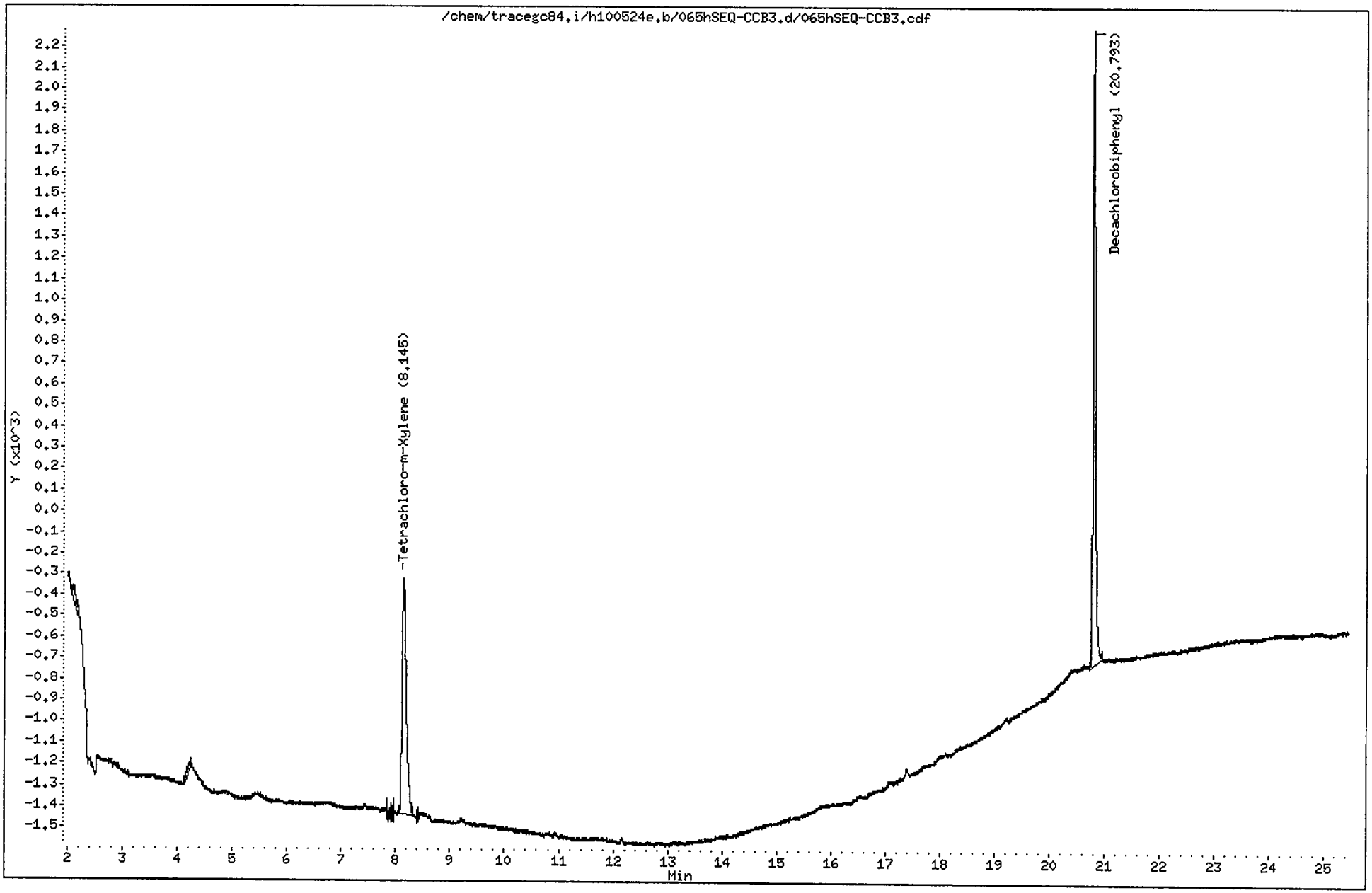
Sample Info: SEQ-CCB3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB3 Client Smp Id : PIBLKHK
Sample Type : INSTBLANK Sublist : all
Inj Date : 26-MAY-2010 05:10 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e.b/8081A_clpestv6.m
Misc. Info : PIBLKHKHL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.42			204						
1.50			35332						
2.10			294						
4.21			206						
8.14	8.11	8.25	5912	539702	Tetrachloro-m-Xylene	0.010955	0.054774		
20.79	20.77	20.91	9501	444411	Decachlorobiphenyl	0.021380	0.106898		

AHW
5/26/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKHL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

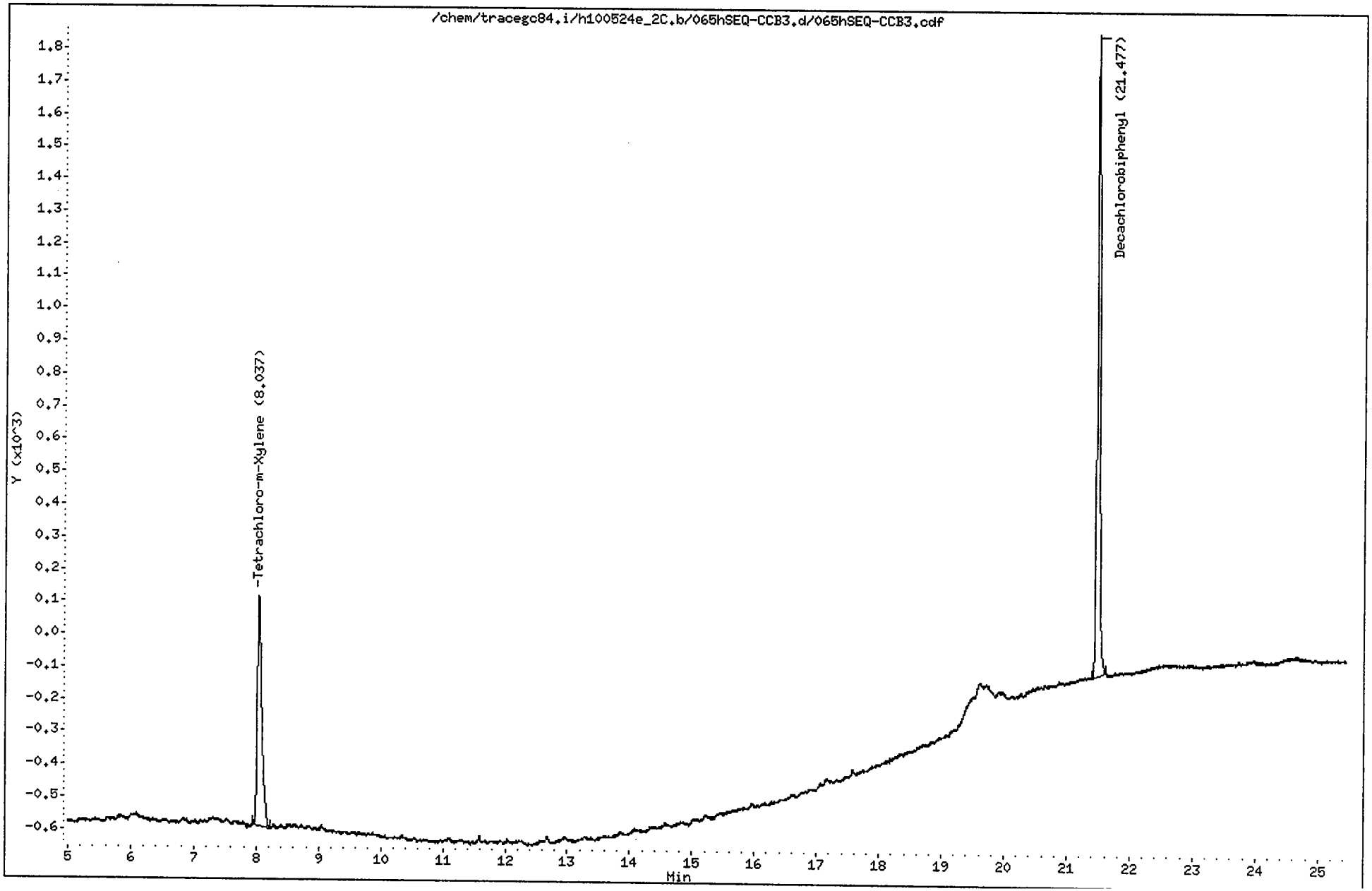
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/h100524e_2C.b/065hSEQ-CCB3.d
Date : 26-MAY-2010 05:10
Client ID: PIBLKHL
Sample Info: SEQ-CCB3
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB3 Client Smp Id : PIBLKHL
Sample Type : INSTBLANK Sublist : all
Inj Date : 26-MAY-2010 05:10 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524e_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKHHKHL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.40			123						
1.51			2449						
1.93			295						
2.49			94						
8.04	7.97	8.11	3531	345165	Tetrachloro-m-Xylene	0.010231	0.051155		
21.48	21.41	21.55	6287	301734	Decachlorobiphenyl	0.020837	0.104185		

AHW
5/26/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKHM

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/h100524f.b/079hSEQ-CCB4.d

Date : 26-MAY-2010 11:56

Client ID: PIBLKHM

Sample Info: SEQ-CCB4

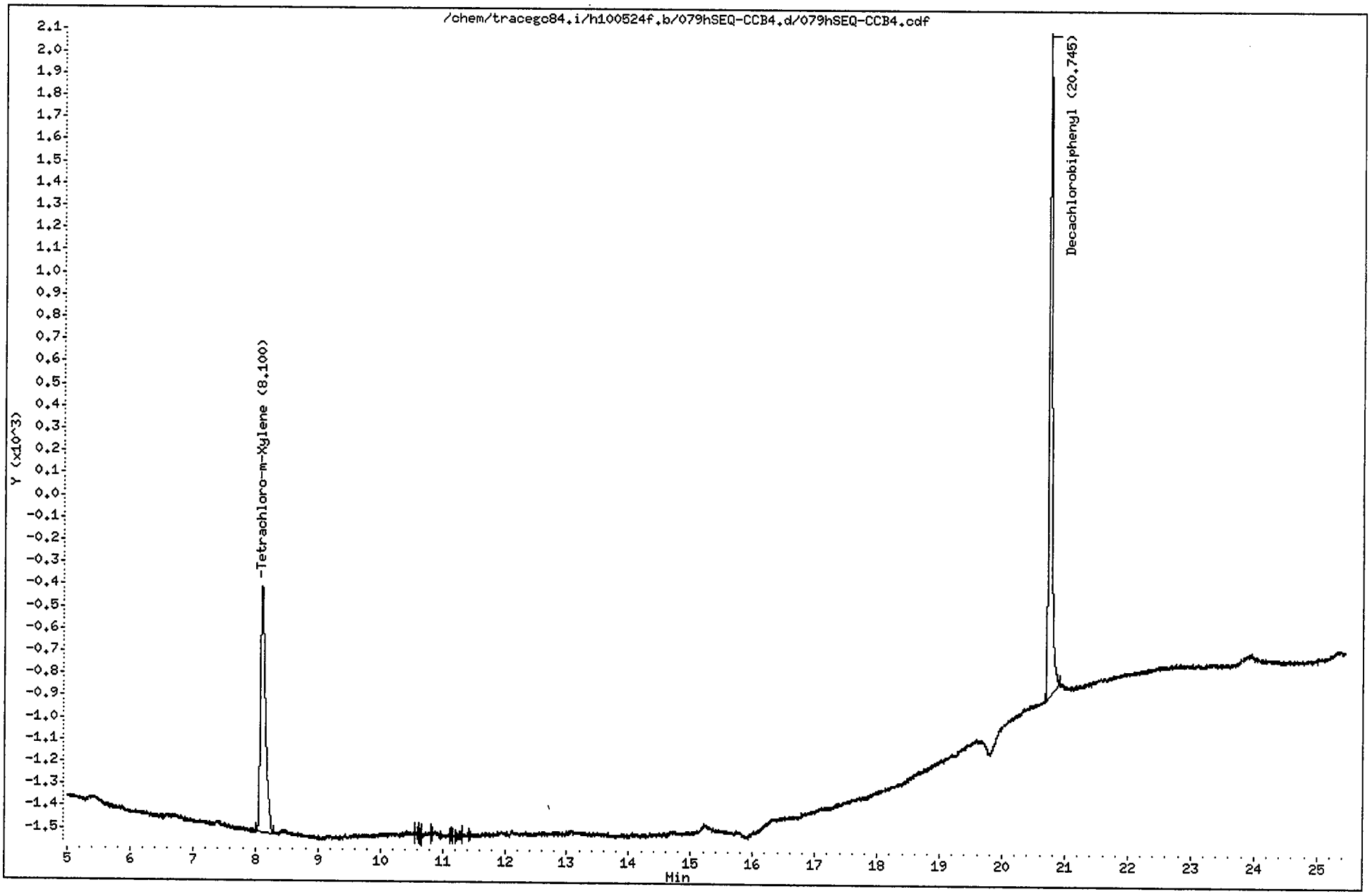
Volume Injected (uL): 1.0

Column phase: olpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



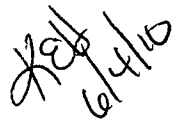
CompuChem

Lab Smp Id : SEQ-CCB4 Client Smp Id : PIBLKHM
Sample Type : INSTBLANK Sublist : all
Inj Date : 26-MAY-2010 11:56 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524f.b/8081A_clpestv6.m
Misc. Info : PIBLKHMHN

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.41			137						
1.46			4543						
1.50			29238						
2.09			398						
2.53			143						
8.10	8.08	8.22	6122	539702	Tetrachloro-m-Xylene	0.011343	0.022686		
20.74	20.72	20.86	9876	444411	Decachlorobiphenyl	0.022223	0.044446		



1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKHN

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

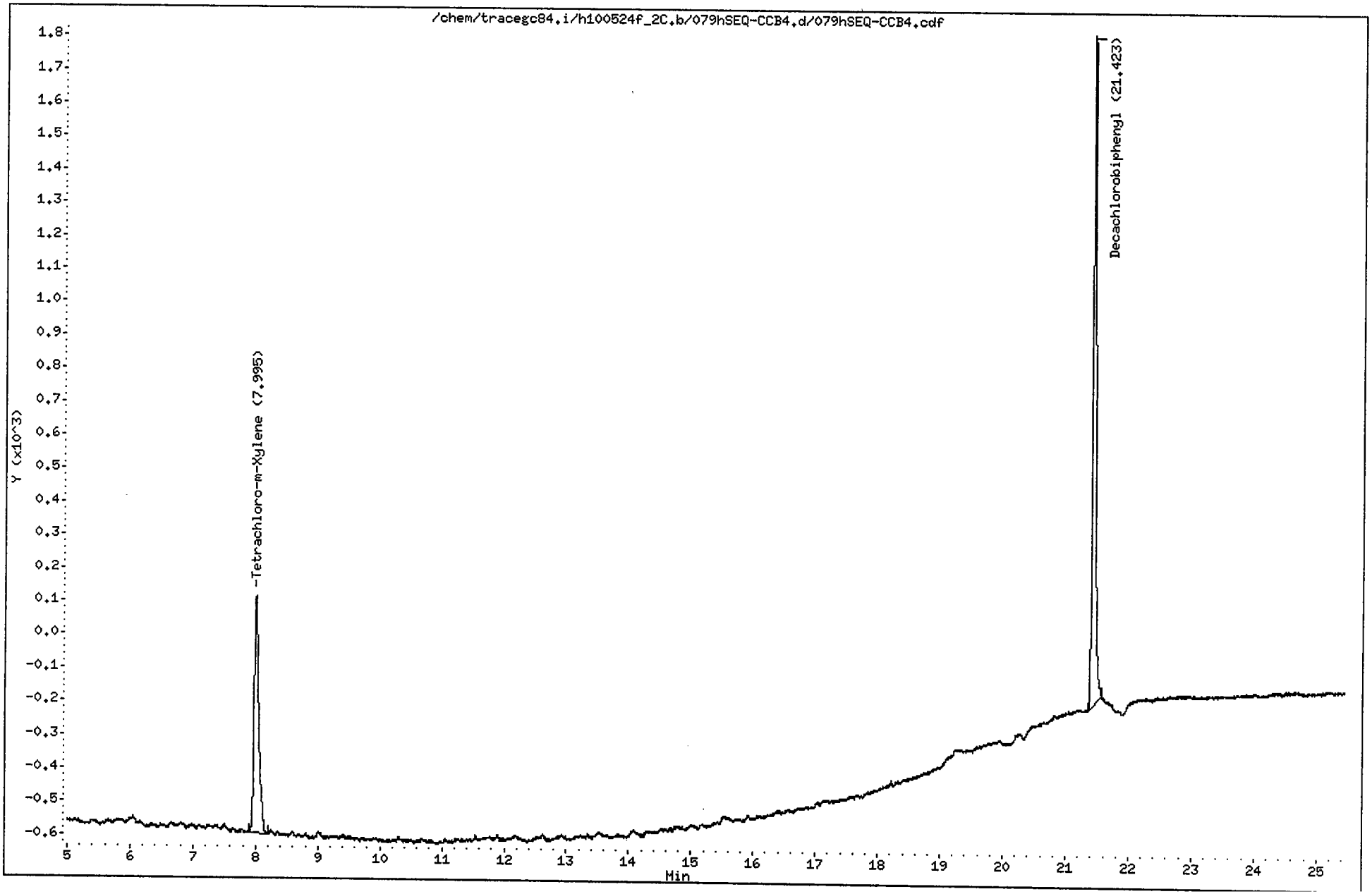
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/h100524f_2C.b/079hSEQ-CCB4.d
Date : 26-MAY-2010 11:56
Client ID: PIBLKHN
Sample Info: SEQ-CCB4
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB4 Client Smp Id : PIBLKHN
Sample Type : INSTBLANK Sublist : all
Inj Date : 26-MAY-2010 11:56 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524f_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKHMHN

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.51			8872						
1.91			166						
8.00	7.97	8.11	3731	345165	Tetrachloro-m-Xylene	0.010809	0.054047		
21.42	21.41	21.55	6791	301734	Decachlorobiphenyl	0.022508	0.112540		

AHW
5/27/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKHO

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/h100524g.b/093hSEQ-CCB5.d

Date : 26-MAY-2010 18:41

Client ID: PIBLKH0

Instrument: tracegc84.i

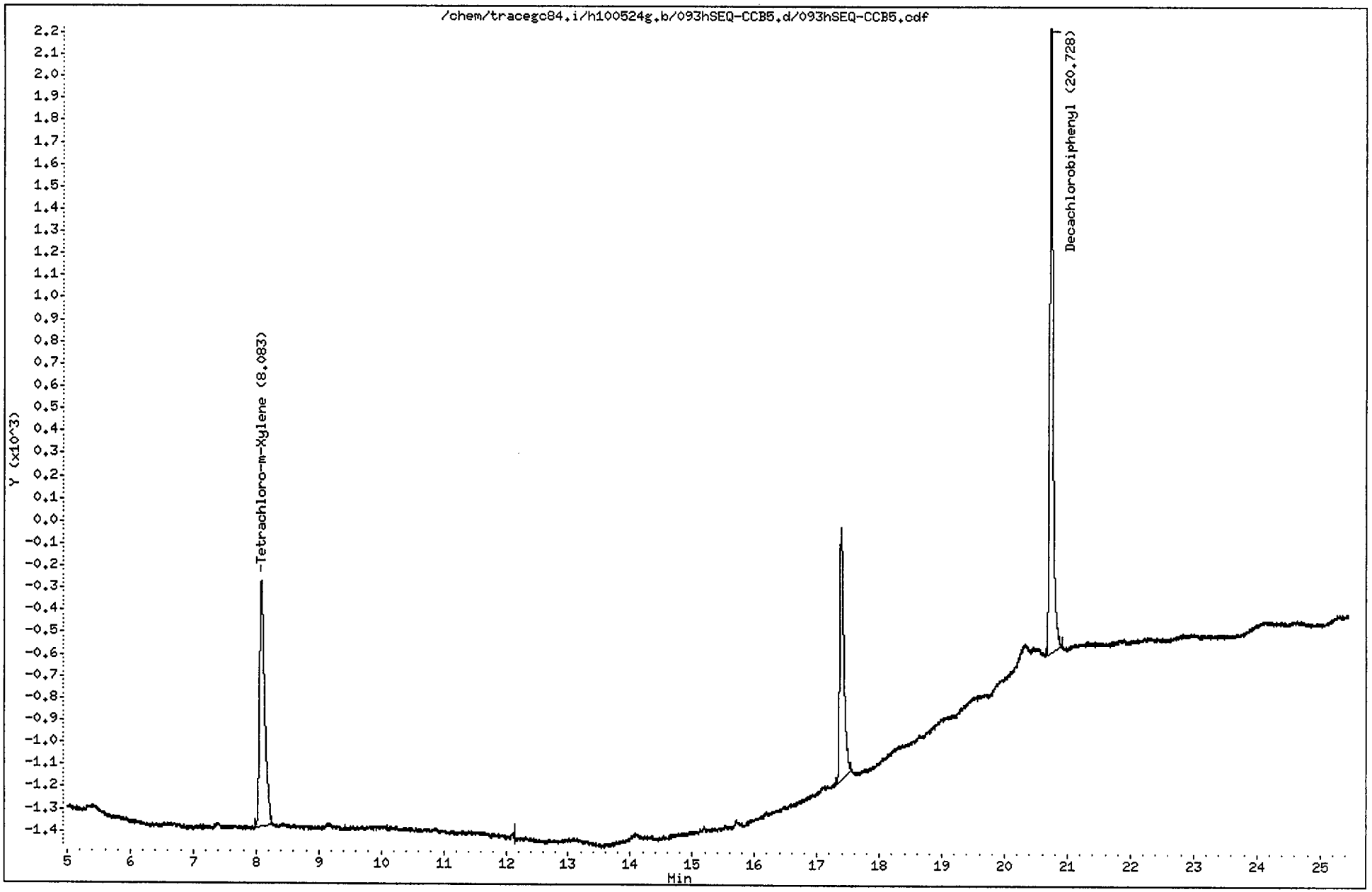
Sample Info: SEQ-CCB5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB5 Client Smp Id : PIBLKHO
Sample Type : INSTBLANK Sublist : all
Inj Date : 26-MAY-2010 18:41 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524g.b/8081A_clpestv6.m
Misc. Info : PIBLKHOHP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.40			122						
1.45			3566						
1.50			29940						
2.06			214						
8.08	8.08	8.22	6259	539702	Tetrachloro-m-Xylene	0.011597	0.023194		
17.39			5157						
20.73	20.72	20.86	10181	444411	Decachlorobiphenyl	0.022909	0.045818		

6/4/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKHP

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/h100524g_2C.b/093hSEQ-CCB5.d

Date : 26-MAY-2010 18:41

Client ID: PIBLKHP

Sample Info: SEQ-CCB5

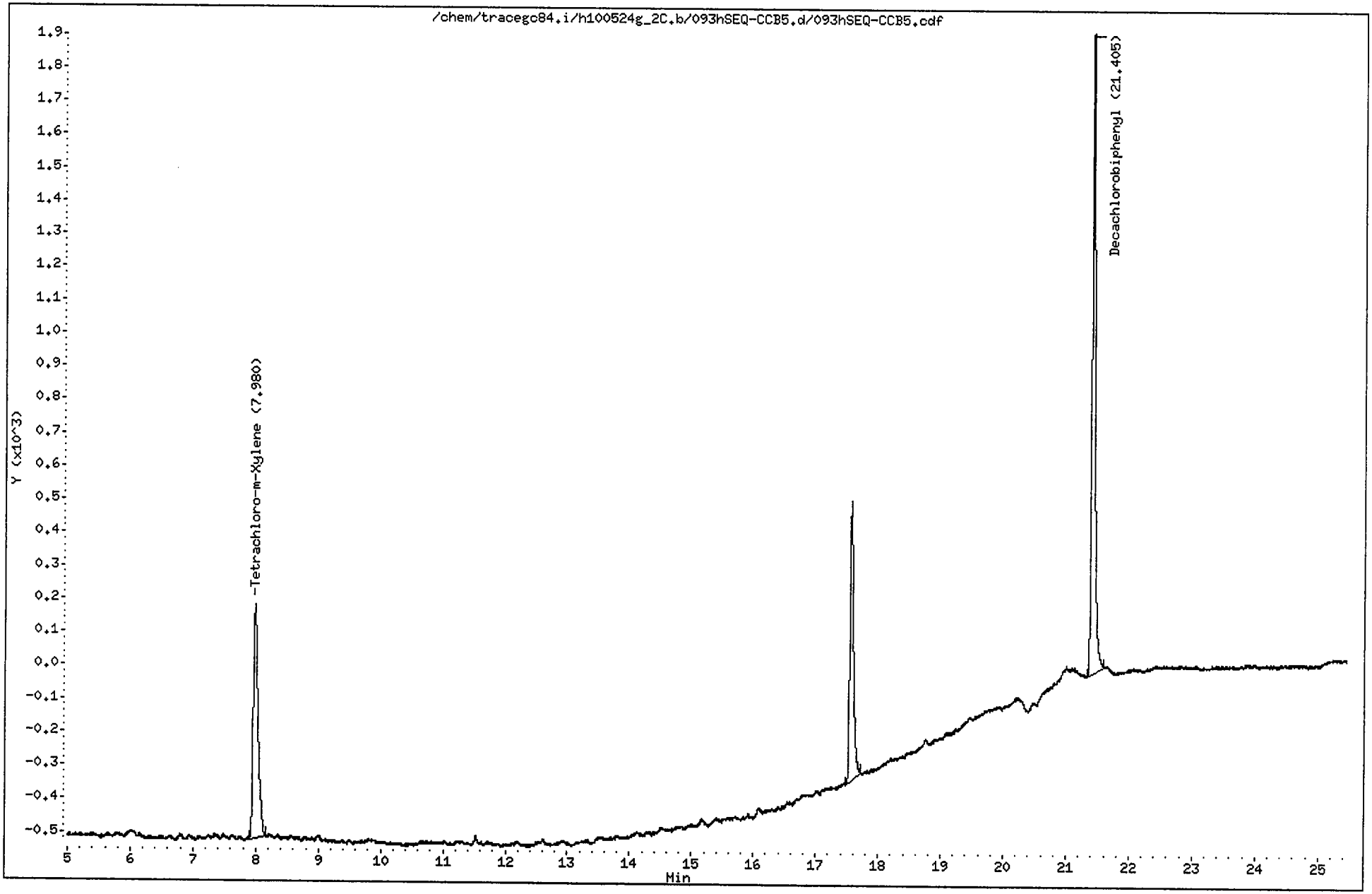
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB5 Client Smp Id : PIBLKHP
Sample Type : INSTBLANK Sublist : all
Inj Date : 26-MAY-2010 18:41 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/h100524g_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKHOHP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.50			8870						
1.90			3137						
7.98	7.97	8.11	3763	345165	Tetrachloro-m-Xylene	0.010899	0.054496		
17.56			3346						
21.40	21.41	21.55	6898	301734	Decachlorobiphenyl	0.022858	0.114290		T

KET 6/4/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJC

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528a.b/024jSEQ-CCB1.d

Date : 29-MAY-2010 03:56

Client ID: PIBLKJC

Instrument: tracegc84.i

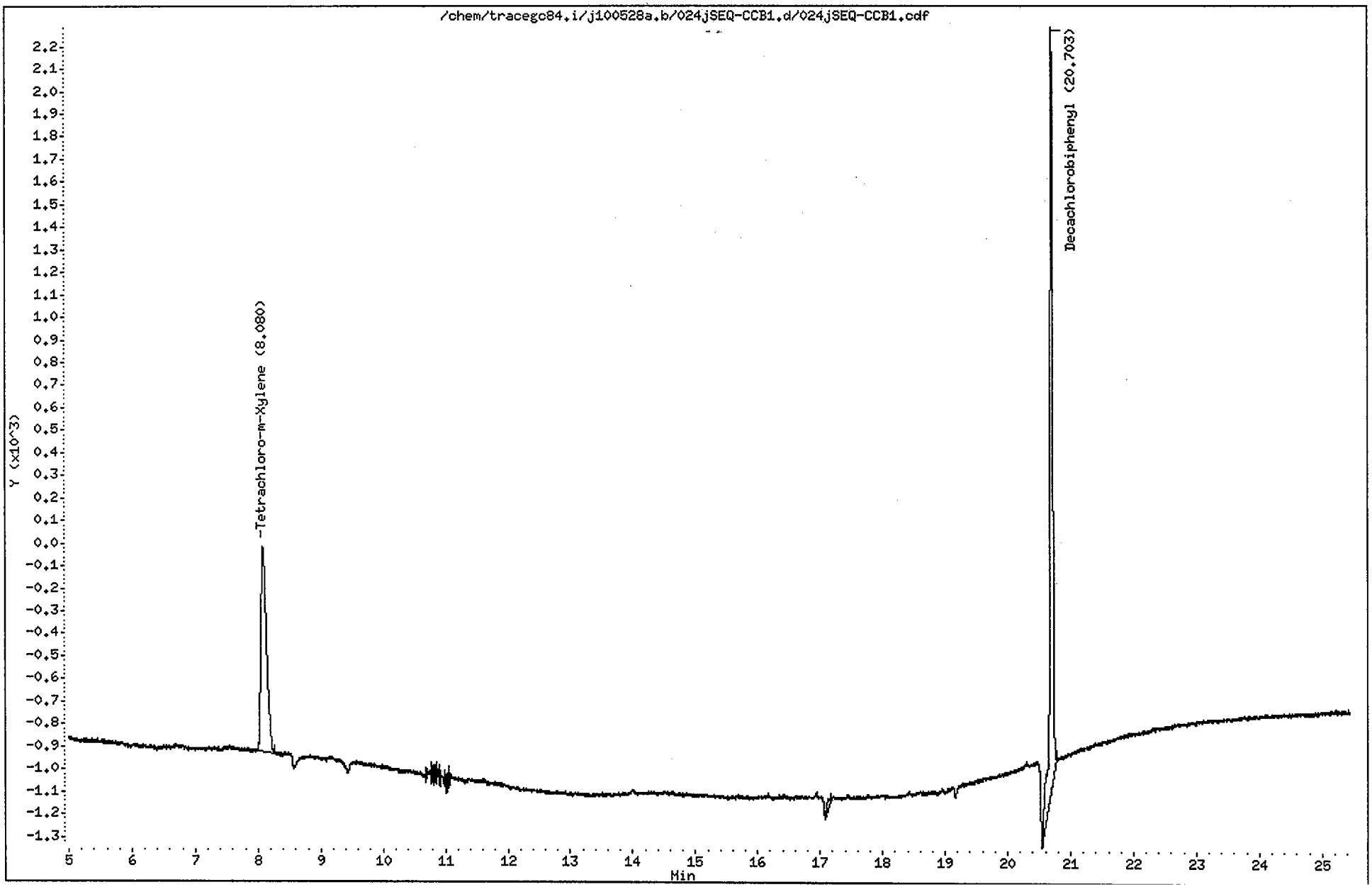
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKJC
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 03:56 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528a.b/8081A_clpestv6.m
Misc. Info : PIBLKJCJD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.57			27662						
8.08	8.01	8.15	5566	522758	Tetrachloro-m-Xylene	0.010648	0.021296		
17.16			164						
20.70	20.63	20.77	10412	408350	Decachlorobiphenyl	0.025497	0.050994		

AHW
6/4/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528a_2C.b/024jSEQ-CCB1.d

Date : 29-MAY-2010 03:56

Client ID: PIBLKJD

Instrument: tracegc84.i

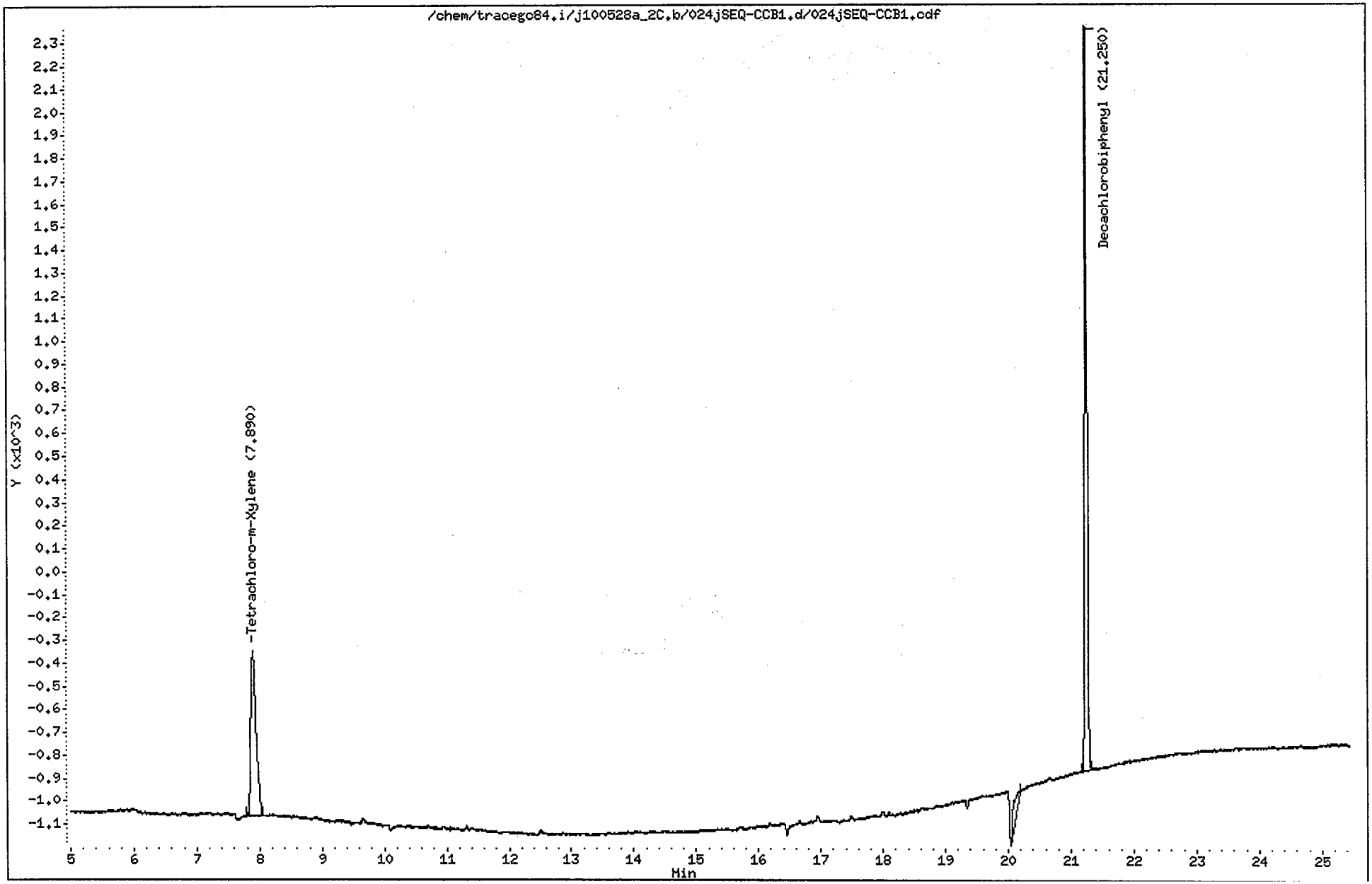
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKJD
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 03:56 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKJCJD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.54			6823						
7.89	7.82	7.96	4220	416798	Tetrachloro-m-Xylene	0.010124	0.050619		
20.18			561						
21.25	21.18	21.32	8657	406698	Decachlorobiphenyl	0.021287	0.106433		

AHW
6/4/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.0053	J
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.097	J
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528b.b/035jSEQ-CCB2.d

Date : 29-MAY-2010 09:14

Client ID: PIBLKJE

Sample Info: SEQ-CCB2

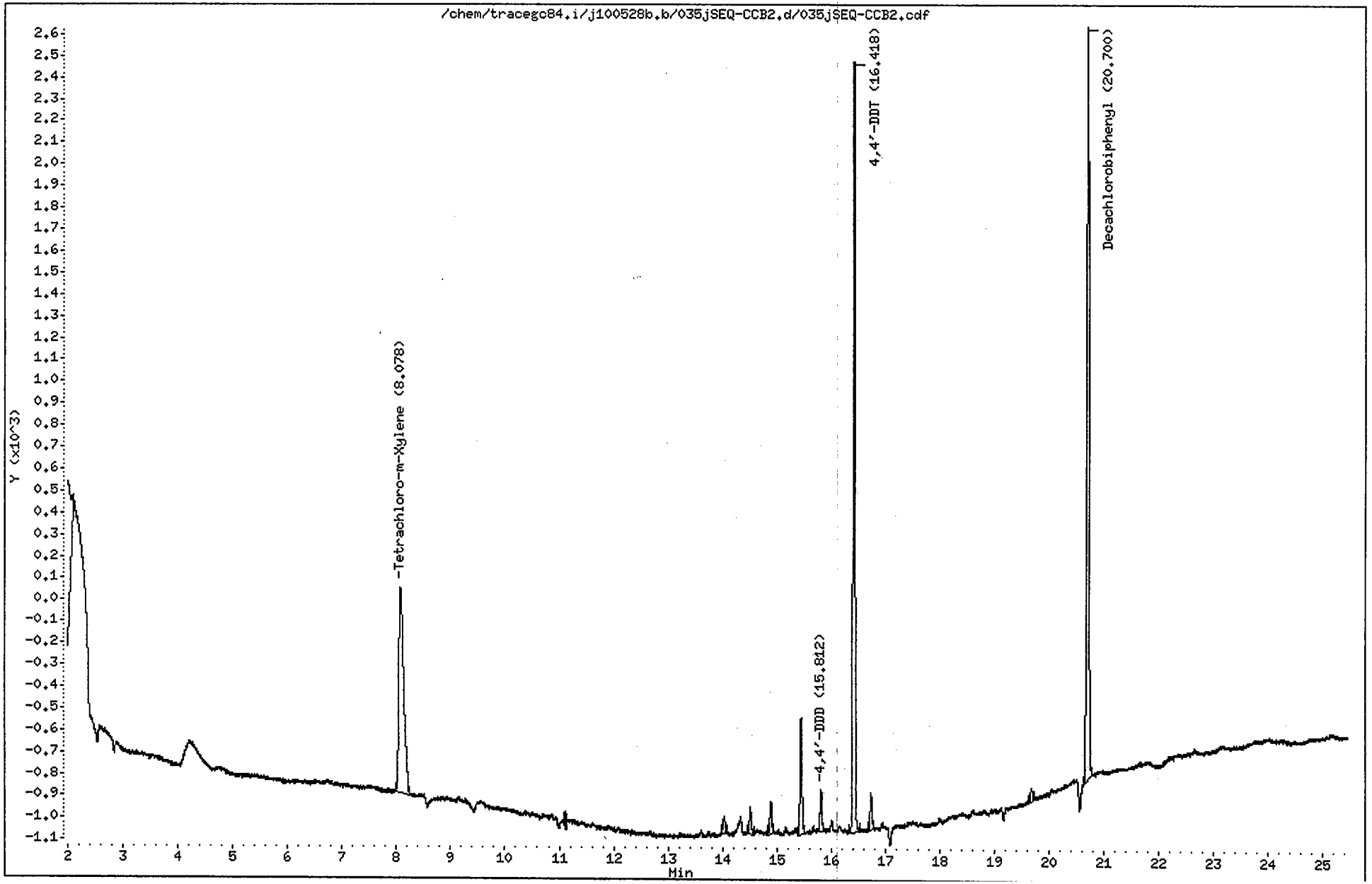
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKJE
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 09:14 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528b.b/8081A_clpestv6.m
Misc. Info : PIBLKJEJF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.45			284						
1.55			40967						
8.08	8.01	8.15	5962	522758	Tetrachloro-m-Xylene	0.011405	0.022810		
14.03			214						
14.51			289						
14.89			351						
15.45			1285						
15.81	15.75	15.89	420	393458	4,4'-DDD	0.001067	0.002133	0.040000	J
16.42	16.35	16.49	8827	454781	4,4'-DDT	0.019409	0.038818	0.040000	J
16.73			404						
19.67			145						
20.70	20.63	20.77	9355	408350	Decachlorobiphenyl	0.022910	0.045819		

AHW
6/4/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKJF

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.092	J
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528b_2C.b/035jSEQ-CCB2.d

Date : 29-MAY-2010 09:14

Client ID: PIBLKJF

Instrument: tracegc84.i

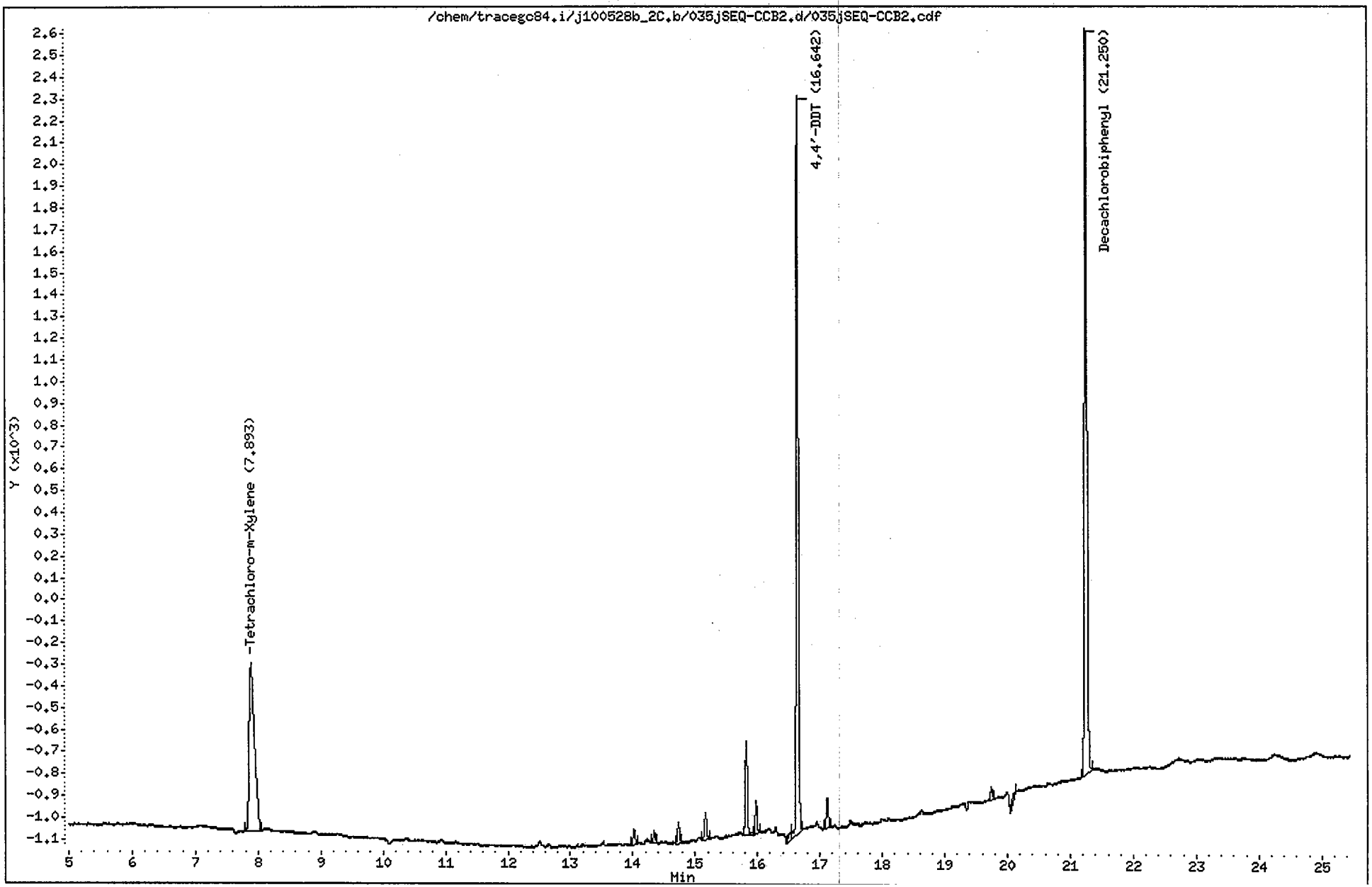
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKJF
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 09:14 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528b_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKJEJF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.54			9115						
7.89	7.82	7.96	4523	416798	Tetrachloro-m-Xylene	0.010849	0.054247		
14.02			171						
14.35			119						
14.73			207						
15.17			269						
15.82			974						
15.98			307						
16.54			133						
16.64	16.57	16.71	7501	405929	4,4'-DDT	0.018479	0.092393	0.100000	J
17.11			304						
19.75			140						
20.13			114						
21.25	21.18	21.32	9180	406698	Decachlorobiphenyl	0.022570	0.112848		

AHW
6/4/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKKO

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528t.b/204jSEQ-CCB2.d

Date : 04-JUN-2010 18:17

Client ID: PIBLKKO

Sample Info: SEQ-CCB2

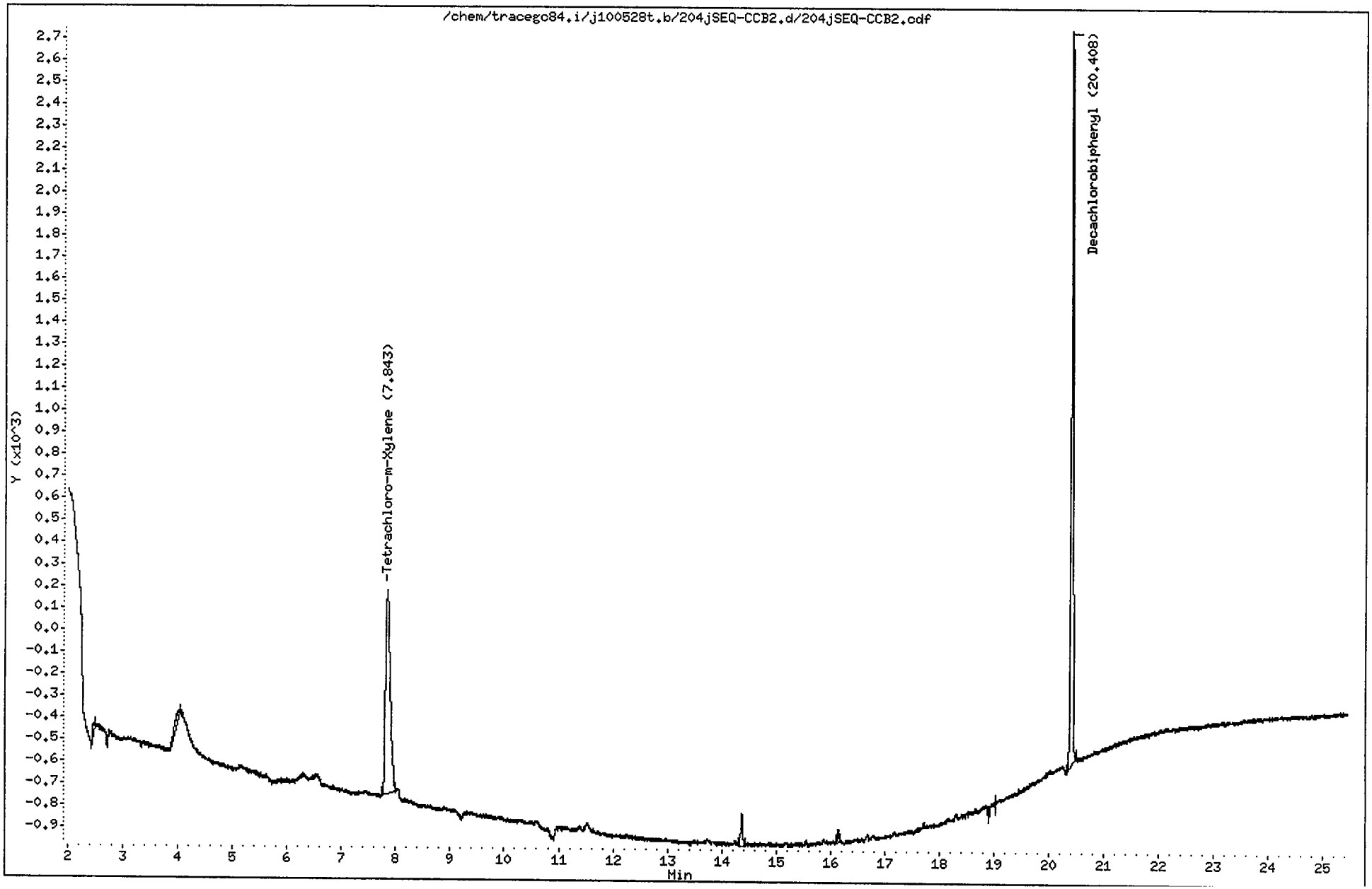
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKKO
Sample Type : INSTBLANK Sublist : all
Inj Date : 04-JUN-2010 18:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t.b/8081A_clpestv6.m
Misc. Info : PIBLKKOKP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.35			210						
1.45			29516						
2.48			135						
4.02			291						
7.84	7.77	7.91	5632	522758	Tetrachloro-m-Xylene	0.010773	0.021547		
14.37			382						
16.15			142						
20.41	20.33	20.47	8578	408350	Decachlorobiphenyl	0.021006	0.042011		

16/16

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKKP

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

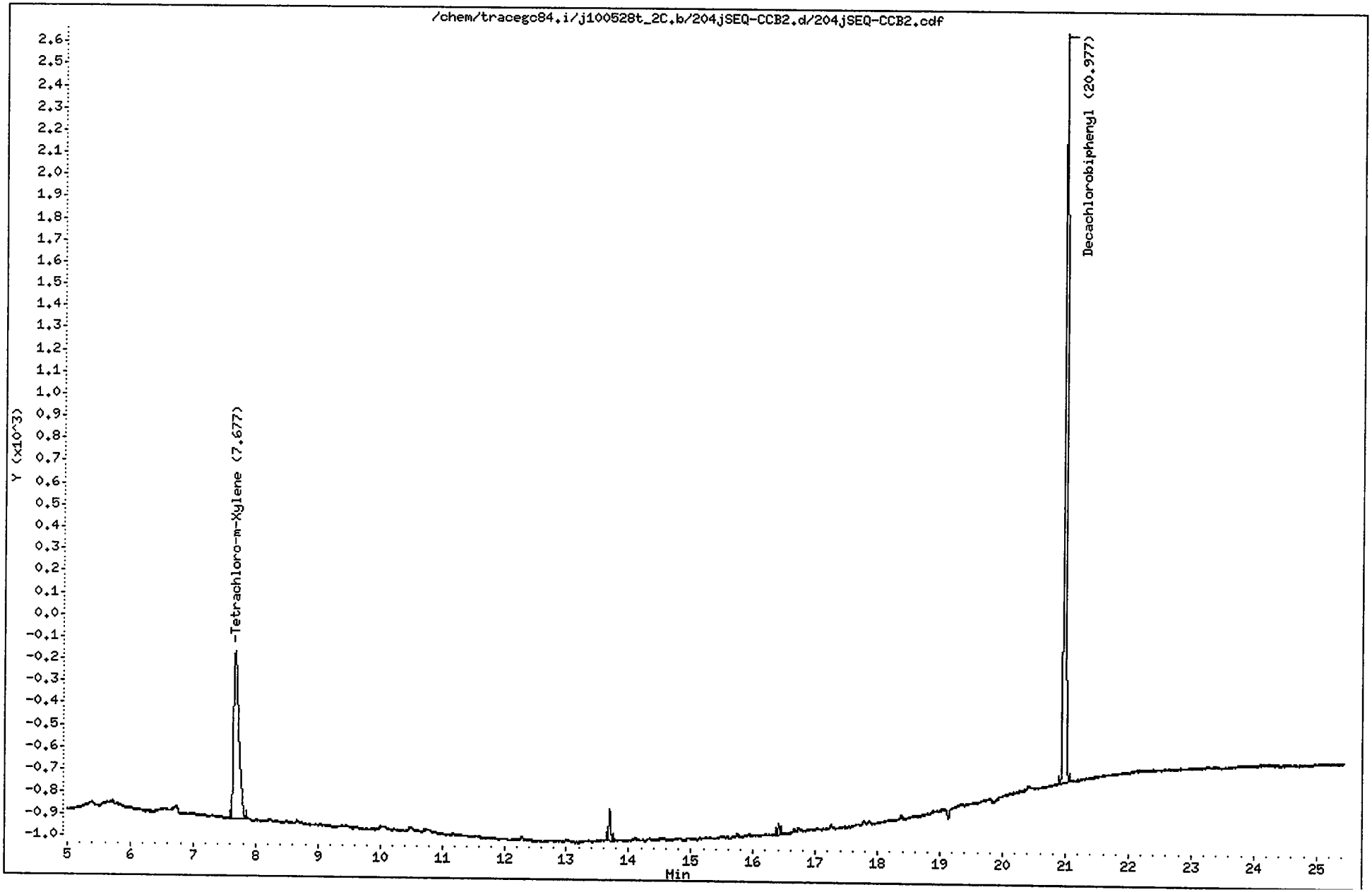
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528t_2C.b/204jSEQ-CCB2.d
Date : 04-JUN-2010 18:17
Client ID: PIBLKKP
Sample Info: SEQ-CCB2
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKKP
Sample Type : INSTBLANK Sublist : all
Inj Date : 04-JUN-2010 18:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528t_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKKOKP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.44			8715						
1.70			304						
3.33			163						
7.68	7.61	7.75	4365	416798	Tetrachloro-m-Xylene	0.010473	0.052367		
13.69			306						
16.41			106						
20.98	20.90	21.04	8537	406698	Decachlorobiphenyl	0.020992	0.104958		

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKKQ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

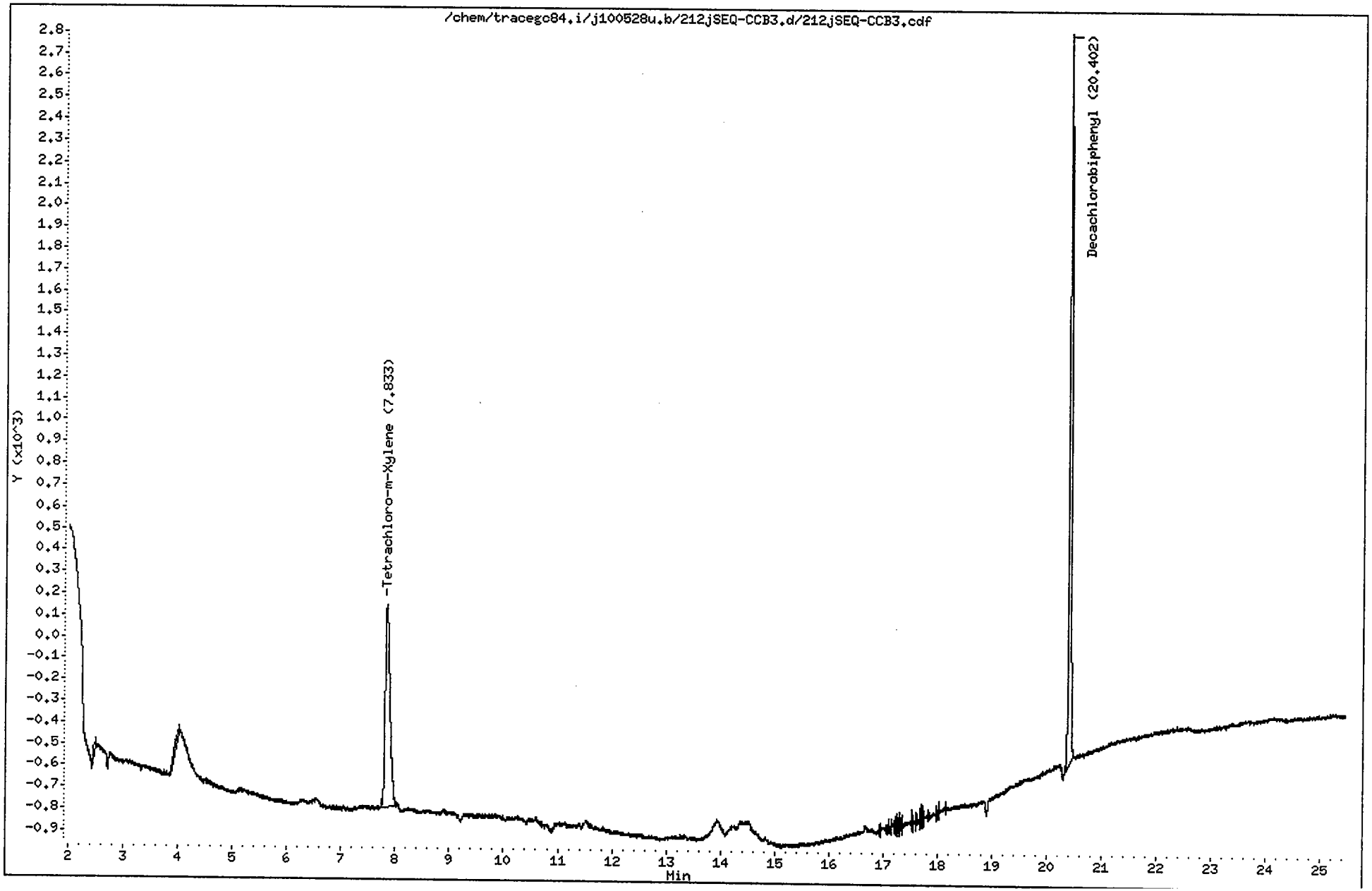
Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528u.b/212jSEQ-CCB3.d
Date : 04-JUN-2010 22:08
Client ID: PIBLKKQ
Sample Info: SEQ-CCB3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB3 Client Smp Id : PIBLKKQ
Sample Type : INSTBLANK Sublist : all
Inj Date : 04-JUN-2010 22:08 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528u.b/8081A_clpestv6.m
Misc. Info : PIBLKKQKR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.36			195						
1.45			27754						
2.49			169						
4.00			189						
7.83	7.77	7.91	5678	522758	Tetrachloro-m-Xylene	0.010862	0.021723		
17.26			151						
17.71			180						
20.40	20.33	20.47	8729	408350	Decachlorobiphenyl	0.021377	0.042754		

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKKR

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/04/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/j100528u_2C.b/212jSEQ-CCB3.d

Date : 04-JUN-2010 22:08

Client ID: PIBLKKR

Instrument: tracegc84.i

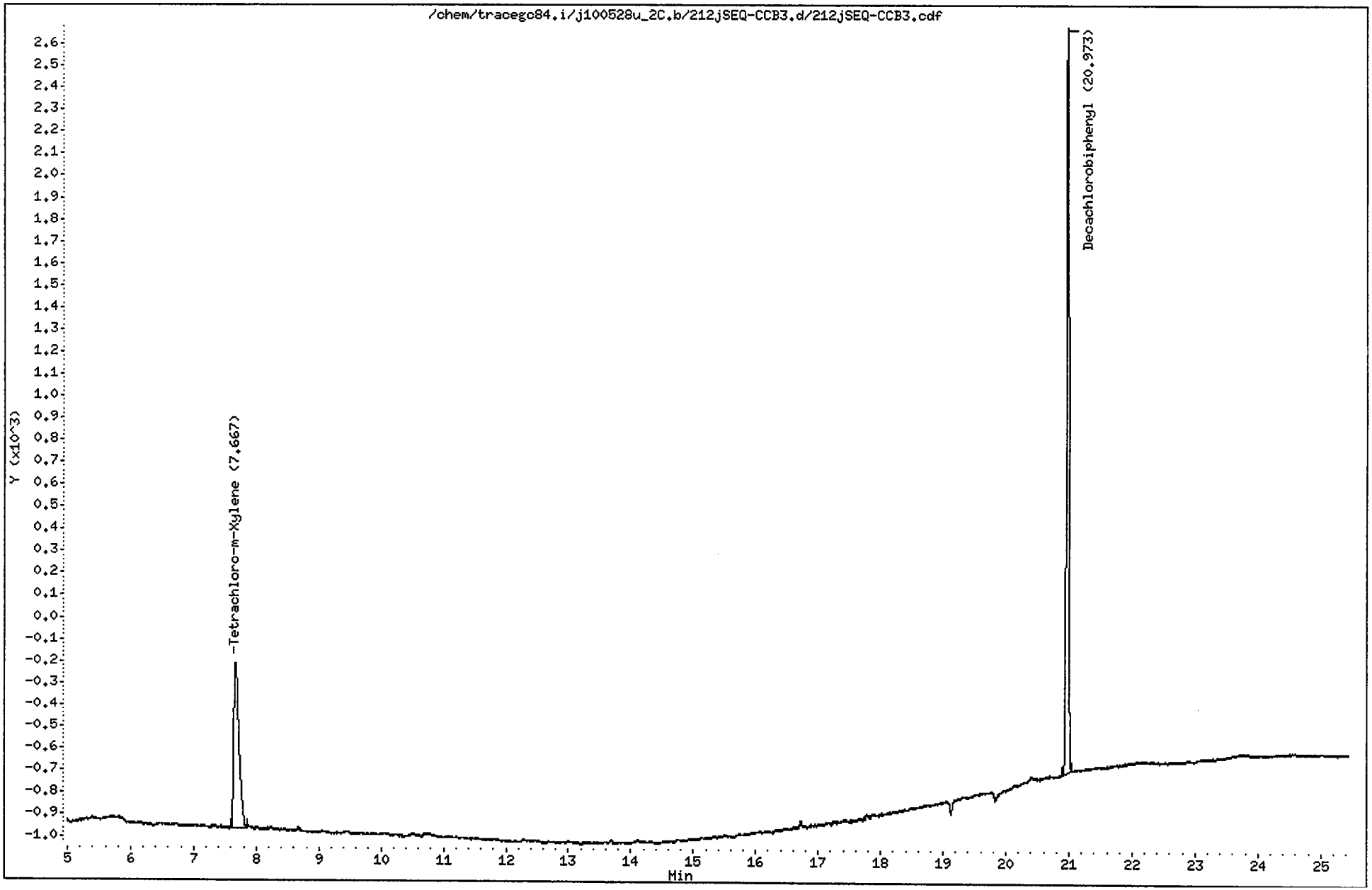
Sample Info: SEQ-CCB3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB3 Client Smp Id : PIBLKKR
Sample Type : INSTBLANK Sublist : all
Inj Date : 04-JUN-2010 22:08 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/j100528u_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKKQKR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.31			145						
1.44			7103						
7.67	7.61	7.75	4367	416798	Tetrachloro-m-Xylene	0.010477	0.052386		
20.97	20.90	21.04	8551	406698	Decachlorobiphenyl	0.021027	0.105133		

1/52

b. Laboratory Control Sample Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PBJLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 0051830-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.8	
319-85-7	beta-BHC	3.9	
319-84-6	alpha-BHC	4.1	
319-86-8	delta-BHC	4.6	
58-89-9	gamma-BHC (Lindane)	3.8	
72-54-8	4,4'-DDD	11	
72-55-9	4,4'-DDE	10	
50-29-3	4,4'-DDT	10	
60-57-1	Dieldrin	11	
959-98-8	Endosulfan I	3.9	
33213-65-9	Endosulfan II	10	
1031-07-8	Endosulfan sulfate	10	
72-20-8	Endrin	10	
7421-93-4	Endrin Aldehyde	6.8	
76-44-8	Heptachlor	4.6	
1024-57-3	Heptachlor Epoxide	4.4	
72-43-5	Methoxychlor	13	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	11	
5103-74-2	gamma-Chlordane	4.2	
5103-71-9	alpha-Chlordane	4.6	

Data File: /chem/tracegc84.i/h100524d.b/055h0051830-BS1.d

Date : 26-MAY-2010 00:21

Client ID: PBJLCS

Instrument: tracegc84.i

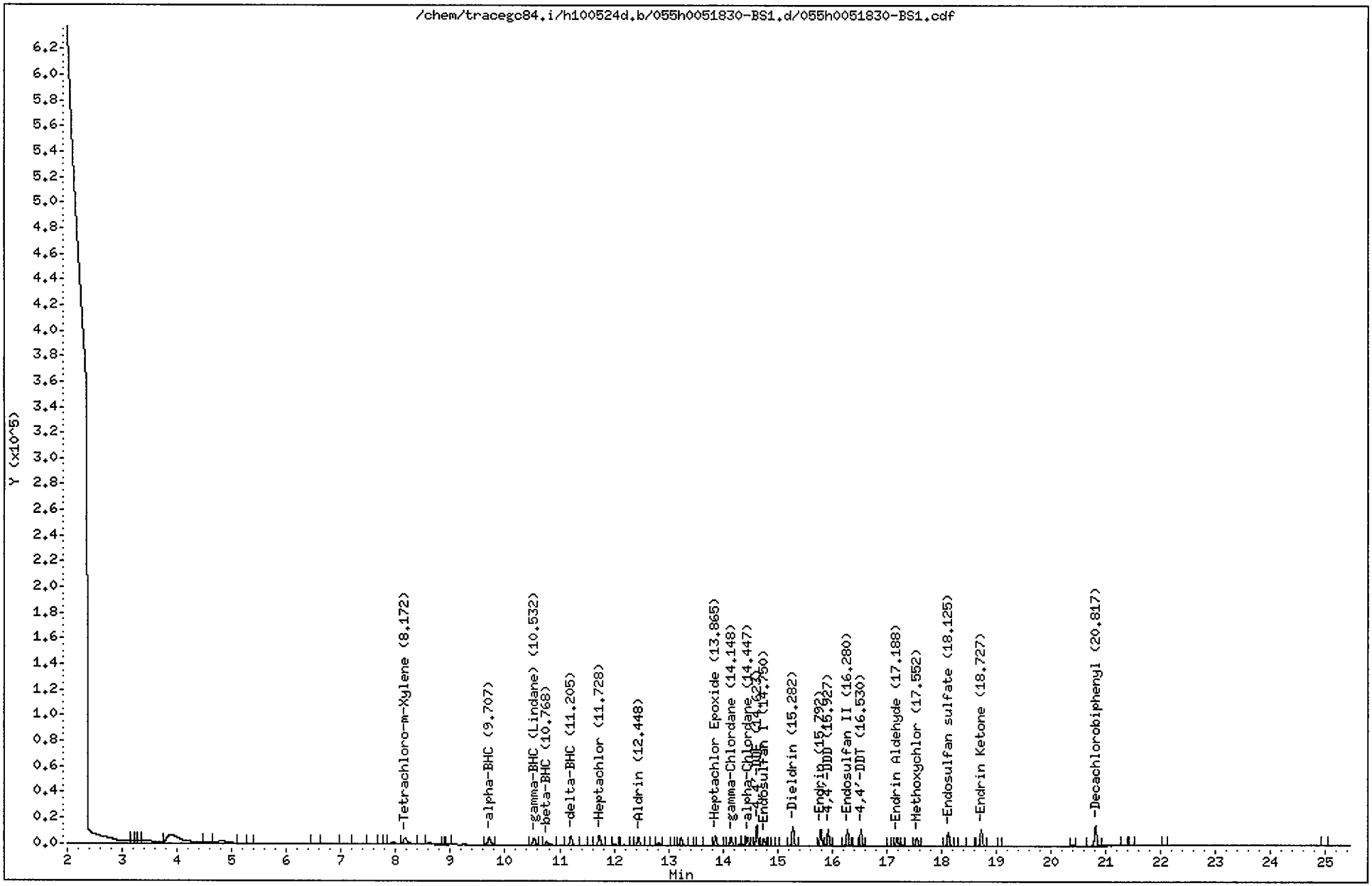
Sample Info: 0051830-BS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051830-BS1 Client Smp Id : PBJLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:21 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : PBJLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.51			40666203								
3.20			8178								
3.25			6495								
3.32			9532								
3.38			40349								
3.88			118859								
4.49			5347								
4.80			18996								
5.34			214								
6.53			477								
7.06			1404								
7.55			1050								
7.82			173								
7.95			9755								
8.17	8.11	8.25	26559	539702	Tetrachloro-m-Xylene	0.049210	8.201741		82.0	70 - 125	
8.61			7145								
8.85			199								
8.97			836								
9.71	9.65	9.79	20398	802020	alpha-BHC	0.025433	4.238880	1.700000	84.8	60 - 125	
10.53	10.48	10.62	18216	758655	gamma-BHC (Lindane)	0.024010	4.001599	1.700000	80.0	60 - 125	
10.77	10.71	10.85	8541	318610	beta-BHC	0.026807	4.467845	0.851000	89.4	60 - 125	
11.20	11.15	11.29	20738	704062	delta-BHC	0.029453	4.908892	1.700000	98.2	55 - 130	
11.55			225								
11.73	11.67	11.81	21789	750482	Heptachlor	0.029032	4.838665	1.700000	96.8	50 - 140	
12.01			1195								
12.19			889								
12.45	12.39	12.53	16093	689285	Aldrin	0.023346	3.890988	1.700000	77.8	45 - 140	
12.72			332								
12.82			4613								
13.09			183								
13.23			16332								
13.41			413								
13.56			825								
13.86	13.81	13.95	18017	642292	Heptachlor Epoxide	0.028051	4.675180	1.700000	93.5	65 - 130	
14.15	14.10	14.24	16559	652722	gamma-Chlordane	0.025368	4.227932	1.700000	84.6	65 - 125	
14.32			2882								
14.37			2497								

6/3/10

CompuChem

Lab Smp Id : 0051830-BS1 Client Smp Id : PBJLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:21 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : PBJLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.45	14.39 14.53	16448	564490	alpha-Chlordane	0.029138	4.856301	1.700000	97.1	65 - 120	
14.54		241								
14.62	14.57 14.71	36551	569541	4,4'-DDE	0.064176	10.69604	3.300000	85.6	70 - 125	
14.75	14.70 14.84	14191	594888	Endosulfan I	0.023855	3.975822	1.700000	79.5	15 - 135	
14.85		150								
15.00		125								
15.28	15.23 15.37	38301	570655	Dieldrin	0.067118	11.18627	3.300000	89.5	65 - 125	
15.79	15.74 15.88	32864	519295	Endrin	0.063284	10.54731	3.300000	84.4	60 - 135	
15.93	15.87 16.01	28427	417785	4,4'-DDD	0.068040	11.33996	3.300000	90.7	30 - 135	
16.28	16.23 16.37	31269	484260	Endosulfan II	0.064571	10.76178	3.300000	86.1	35 - 140	
16.43		759								
16.53	16.48 16.62	29593	486148	4,4'-DDT	0.060870	10.14507	3.300000	81.2	45 - 140	
17.05		325								
17.19	17.14 17.28	15065	367936	Endrin Aldehyde	0.040942	6.823646	3.300000	54.6	35 - 145	
17.28		1072								
17.55	17.50 17.64	15935	208219	Methoxychlor	0.076525	12.75418	17.00000	102.0	55 - 145	J
18.12	18.07 18.21	26065	409905	Endosulfan sulfate	0.063585	10.59758	3.300000	84.8	60 - 135	
18.41		1105								
18.52		797								
18.73	18.68 18.82	33372	478826	Endrin Ketone	0.069693	11.61556	3.300000	92.9	65 - 135	
19.07		165								
20.40		231								
20.82	20.77 20.91	44958	444411	Decachlorobiphenyl	0.101163	16.86051		84.3	55 - 130	
21.33		916								
21.46		194								
22.06		190								
24.98		488								

Data File: /chem/tracegc84.i/h100524d_2C.b/055h0051830-BS1.d

Date : 26-MAY-2010 00:21

Client ID: PBJLCS

Instrument: tracegc84.i

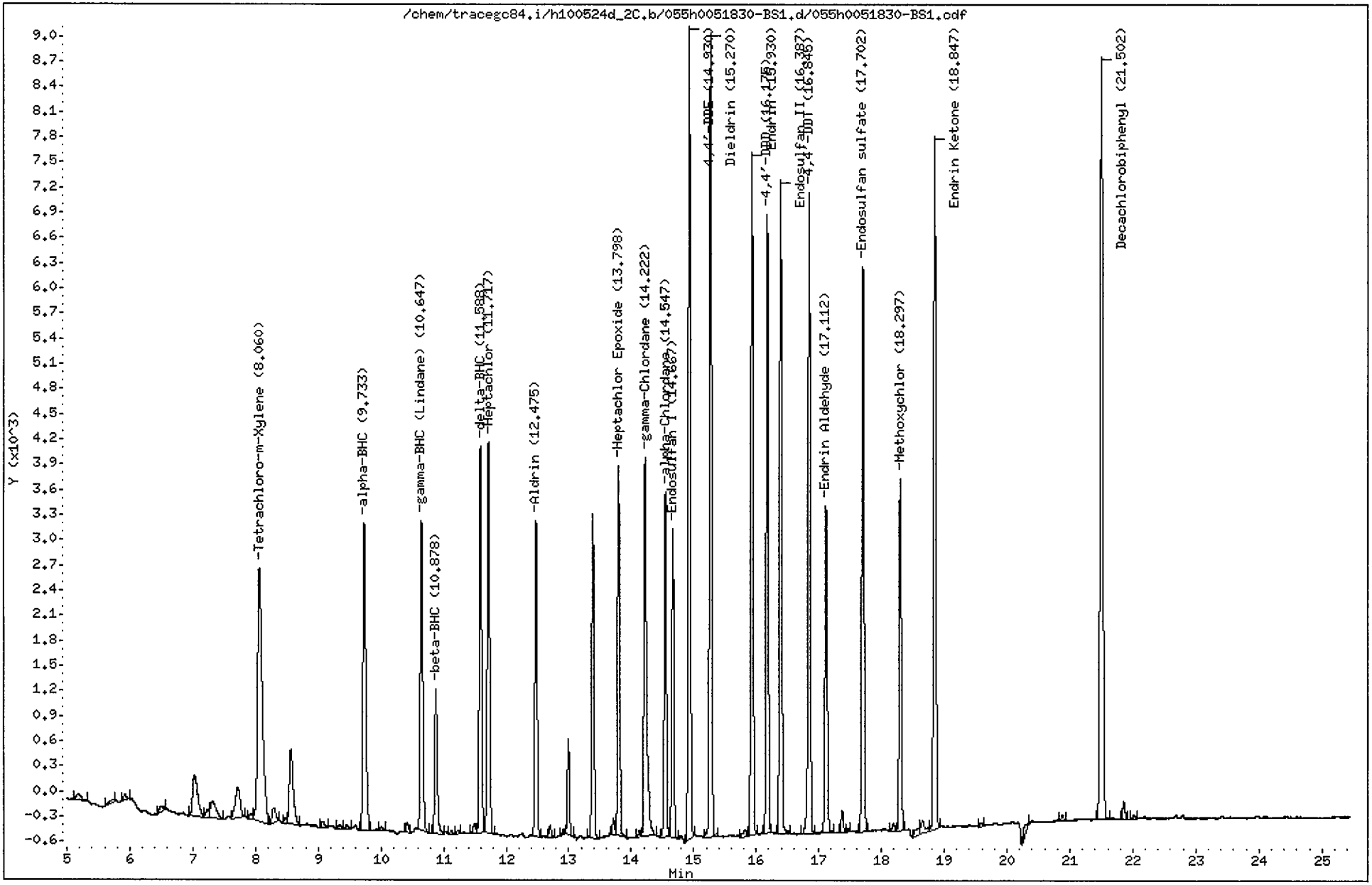
Sample Info: 0051830-BS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051830-BS1 Client Smp Id : PBJLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:21 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : PBJLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.55			28321928								
2.86			347								
3.09			429								
3.26			49983								
4.39			668								
5.18			443								
5.73			184								
5.93			232								
6.51			267								
7.03			2757								
7.23			314								
7.32			1396								
7.72			1962								
7.92			227								
8.06	8.01	8.15	15483	345165	Tetrachloro-m-Xylene	0.044854	7.475652		74.8	70 - 125	
8.29			719								
8.48			193								
8.56			3846								
9.07			252								
9.35			152								
9.45			119								
9.73	9.68	9.82	11684	473680	alpha-BHC	0.024666	4.111074	1.700000	82.2	60 - 125	
10.00			123								
10.42			341								
10.65	10.59	10.73	10202	450035	gamma-BHC (Lindane)	0.022667	3.777854	1.700000	75.6	60 - 125	
10.88	10.83	10.97	4806	203322	beta-BHC	0.023632	3.938734	0.851000	78.8	60 - 125	
11.12			118								
11.23			128								
11.50			318								
11.59	11.53	11.67	11420	416372	delta-BHC	0.027425	4.570827	1.700000	91.4	55 - 130	
11.72	11.66	11.80	12232	447981	Heptachlor	0.027305	4.550789	1.700000	91.0	50 - 140	
12.48	12.42	12.56	9350	415475	Aldrin	0.022504	3.750727	1.700000	75.0	45 - 140	
12.70			344								
12.91			143								
12.99			2629								
13.38			9425								
13.71			443								

6/3/10

CompuChem

Lab Smp Id : 0051830-BS1 Client Smp Id : PBJLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:21 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : PBJLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.80	13.75 13.89	10426	397168	Heptachlor Epoxide	0.026251	4.375148	1.700000	87.5	65 - 130	
14.13		136								
14.22	14.17 14.31	13425	394802	gamma-Chlordane	0.034004	5.667391	1.700000	113.3	65 - 125	
14.55	14.49 14.63	9602	348692	alpha-Chlordane	0.027537	4.589526	1.700000	91.8	65 - 120	
14.67	14.61 14.75	8709	375212	Endosulfan I	0.023211	3.868475	1.700000	77.4	15 - 135	
14.93	14.88 15.02	22073	352110	4,4'-DDE	0.062688	10.44797	3.300000	83.6	70 - 125	
15.27	15.22 15.36	22814	348230	Dieldrin	0.065511	10.91855	3.300000	87.3	65 - 125	
15.82		276								
15.93	15.88 16.02	19729	319049	Endrin	0.061834	10.30564	3.300000	82.4	60 - 135	
16.18	16.12 16.26	16433	248368	4,4'-DDD	0.066164	11.02734	3.300000	88.2	30 - 135	
16.39	16.34 16.48	19237	304391	Endosulfan II	0.063198	10.53304	3.300000	84.3	35 - 140	
16.84	16.79 16.93	18037	294834	4,4'-DDT	0.061177	10.19614	3.300000	81.6	45 - 140	
17.11	17.06 17.20	9702	239136	Endrin Aldehyde	0.040571	6.761836	3.300000	54.1	35 - 145	
17.37		603								
17.46		94								
17.70	17.65 17.79	16382	267371	Endosulfan sulfate	0.061271	10.21177	3.300000	81.7	60 - 135	
18.19		236								
18.30	18.25 18.39	9803	129586	Methoxychlor	0.075641	12.60677	17.00000	100.9	55 - 145	J
18.59		466								
18.65		729								
18.85	18.80 18.94	20971	304950	Endrin Ketone	0.068769	11.46144	3.300000	91.7	65 - 135	
19.59		120								
20.34		417								
20.89		140								
21.50	21.45 21.59	26905	301734	Decachlorobiphenyl	0.089168	14.86134		74.3	55 - 130	
21.86		578								
22.01		117								

c. Matrix Spike Data

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS50-0-1MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 0051830-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/26/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.0	
319-85-7	beta-BHC	6.0	
319-84-6	alpha-BHC	5.3	
319-86-8	delta-BHC	5.2	
58-89-9	gamma-BHC (Lindane)	4.5	
72-54-8	4,4'-DDD	14	
72-55-9	4,4'-DDE	12	
50-29-3	4,4'-DDT	10	
60-57-1	Dieldrin	12	
959-98-8	Endosulfan I	4.6	
33213-65-9	Endosulfan II	12	
1031-07-8	Endosulfan sulfate	29	
72-20-8	Endrin	13	
7421-93-4	Endrin Aldehyde	7.5	
76-44-8	Heptachlor	5.6	
1024-57-3	Heptachlor Epoxide	5.7	
72-43-5	Methoxychlor	15	J
8001-35-2	Toxaphene	130	U
53494-70-5	Endrin Ketone	14	
5103-74-2	gamma-Chlordane	5.0	P
5103-71-9	alpha-Chlordane	5.1	

Data File: /chem/tracegc84.i/h100524d.b/056h0051830-MS1.d

Date : 26-MAY-2010 00:50

Client ID: SS50-0-1MS

Instrument: tracegc84.i

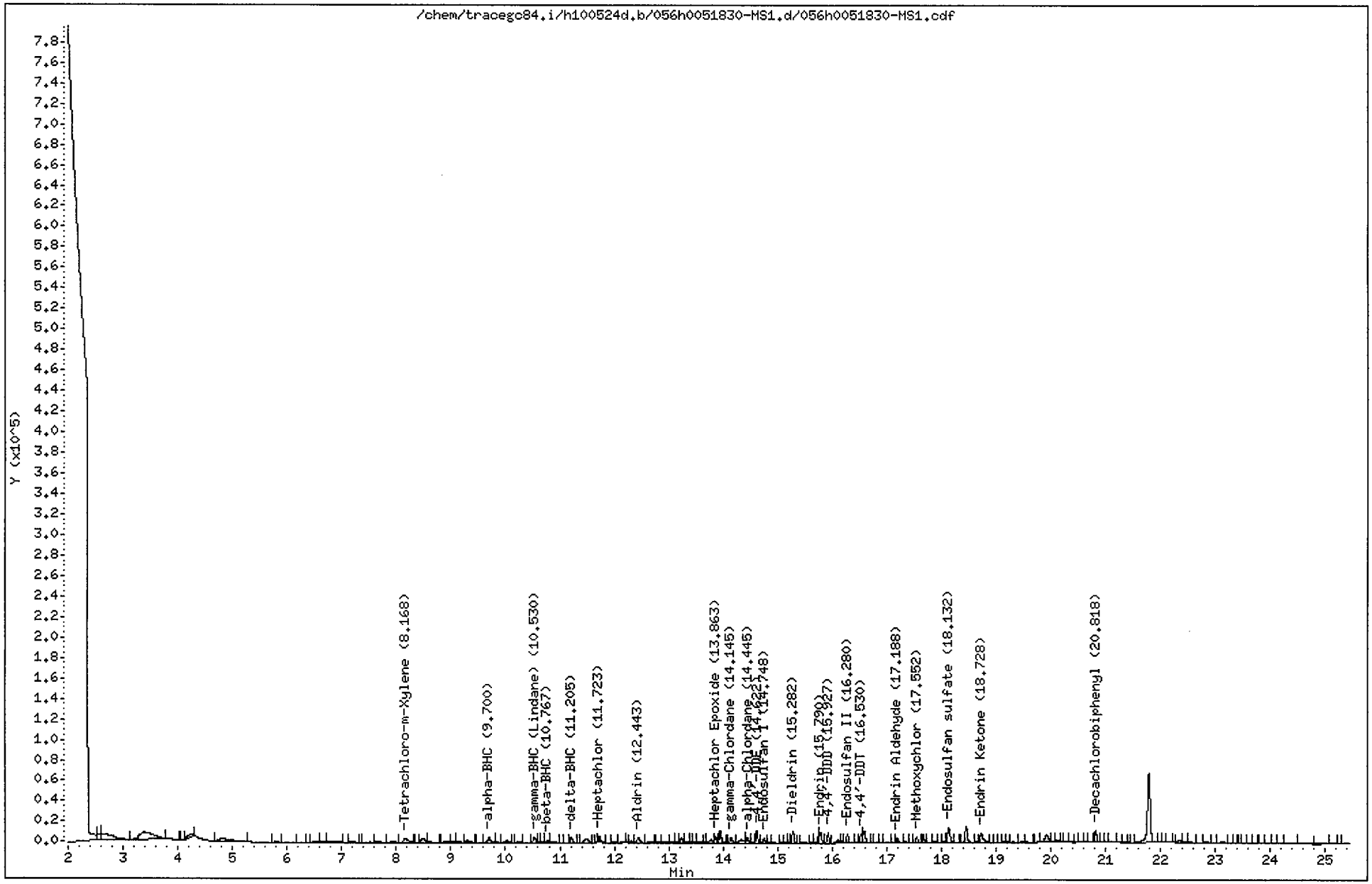
Sample Info: 0051830-MS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48			46041348								
2.56			24741								
2.63			69537								
3.39			113934								
3.80			3774								
4.08			224								
4.25			16285								
4.80			34442								
5.79			1269								
6.33			2211								
6.42			1222								
6.57			4447								
6.65			5375								
6.84			11391								
7.19			3978								
7.52			2536								
7.66			5293								
7.91			3291								
8.17	8.11	8.25	22406	539702	Tetrachloro-m-Xylene	0.041514	10.48324		69.2*	70 - 125	R
8.40			328								
8.48			19280								
8.60			3829								
8.91			6820								
9.04			3080								
9.13			2405								
9.31			7930								
9.54			337								
9.70	9.65	9.79	16905	802020	alpha-BHC	0.021077	5.322419	2.575758	70.3	60 - 125	
9.84			1045								
10.02			9610								
10.24			1811								
10.35			471								
10.53	10.48	10.62	16810	758655	gamma-BHC (Lindane)	0.022157	5.595312	2.575758	73.9	60 - 125	
10.60			5217								
10.67			5610								
10.77	10.71	10.85	8015	318610	beta-BHC	0.025156	6.352642	1.289394	83.9	60 - 125	
10.86			5849								

6/3/10

CompuChem

Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.03		649								
11.13		639								
11.20	11.15 11.29	14608	704062	delta-BHC	0.020748	5.239434	2.575758	69.2	55 - 130	
11.36		283								
11.47		17013								
11.67		1639								
11.72	11.67 11.81	16503	750482	Heptachlor	0.021989	5.552657	2.575758	73.3	50 - 140	
11.89		628								
11.99		2588								
12.17		867								
12.31		4152								
12.44	12.39 12.53	17045	689285	Aldrin	0.024729	6.244577	2.575758	82.4	45 - 140	
12.63		2854								
12.81		1129								
12.91		1181								
13.05		2641								
13.14		1818								
13.23		12398								
13.36		3224								
13.40		2130								
13.48		1313								
13.56		4421								
13.66		518								
13.78		12503								
13.86	13.81 13.95	15201	642292	Heptachlor Epoxide	0.023667	5.976461	2.575758	78.9	65 - 130	
13.95		30547								
14.14	14.10 14.24	13039	652722	gamma-Chlordane	0.019975	5.044141	2.575758	66.6	65 - 125	
14.33		16961								
14.44	14.39 14.53	14888	564490	alpha-Chlordane	0.026374	6.660164	2.575758	87.9	65 - 120	
14.53		2206								
14.62	14.57 14.71	26629	569541	4,4'-DDE	0.046753	11.80642	5.000000	62.3*	70 - 125	R
14.75	14.70 14.84	10722	594888	Endosulfan I	0.018024	4.551408	2.575758	60.1	15 - 135	
14.85		226								
14.92		1928								
15.06		864								
15.15		1053								
15.22		1934								

CompuChem

Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.28	15.23 15.37	27883	570655	Dieldrin	0.048861	12.33874	5.000000	65.1	65 - 125	
15.47		2646								
15.62		1234								
15.76		15546								
15.79	15.74 15.88	28881	519295	Endrin	0.055614	14.04390	5.000000	74.2	60 - 135	M
15.93	15.87 16.01	23781	417785	4,4'-DDD	0.056919	14.37354	5.000000	75.9	30 - 135	
16.11		7483								
16.17		3601								
16.28	16.23 16.37	23271	484260	Endosulfan II	0.048053	12.13452	5.000000	64.1	35 - 140	
16.44		417								
16.53	16.48 16.62	20442	486148	4,4'-DDT	0.042049	10.61843	5.000000	56.1	45 - 140	
16.59		41536								
16.82		714								
16.88		502								
17.00		1601								
17.11		1049								
17.19	17.14 17.28	11514	367936	Endrin Aldehyde	0.031291	7.901704	5.000000	41.7	35 - 145	
17.35		4671								
17.44		1260								
17.55	17.50 17.64	12900	208219	Methoxychlor	0.061949	15.64372	25.75758	82.6	55 - 145	J
17.67		18841								
17.76		1327								
17.88		2645								
17.96		682								
18.05		4793								
18.13	18.07 18.21	47616	409905	Endosulfan sulfate	0.116164	29.33422	5.000000	154.9*	60 - 135	R
18.26		1527								
18.45		46121								
18.63		1012								
18.73	18.68 18.82	32696	478826	Endrin Ketone	0.068282	17.24282	5.000000	91.0	65 - 135	
18.90		470								
18.98		483								
19.06		591								
19.14		1146								
19.20		1798								
19.32		1515								
19.48		1285								

CompuChem

Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.55		2258								
19.78		1261								
19.92		30207								
20.04		3354								
20.13		5007								
20.26		983								
20.36		1121								
20.47		810								
20.53		677								
20.61		501								
20.74		2953								
20.82	20.77 20.91	30700	444411	Decachlorobiphenyl	0.069080	17.44448		57.6	55 - 130	
20.95		804								
21.02		754								
21.11		1685								
21.23		2934								
21.34		1101								
21.41		320								
21.79		246442								
21.98		1871								
22.16		2901								
22.35		6527								
22.45		4583								
22.54		1912								
22.71		525								
22.83		3082								
23.14		2900								
23.35		471								
23.46		176								
23.51		226								
23.63		262								
23.72		201								
23.83		287								
24.09		751								
24.19		1922								
24.34		3982								
24.99		4507								

CompuChem

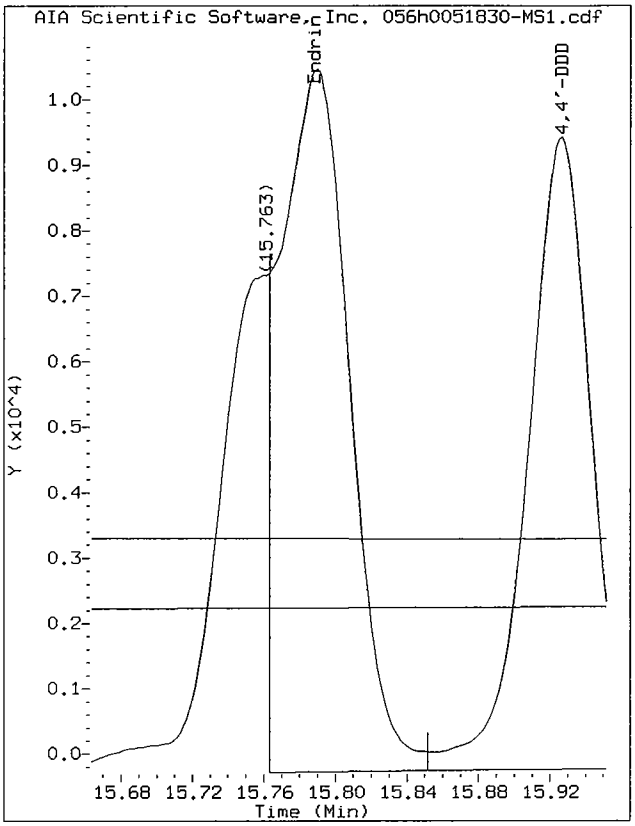
Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d.b/8081A_clpestv6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

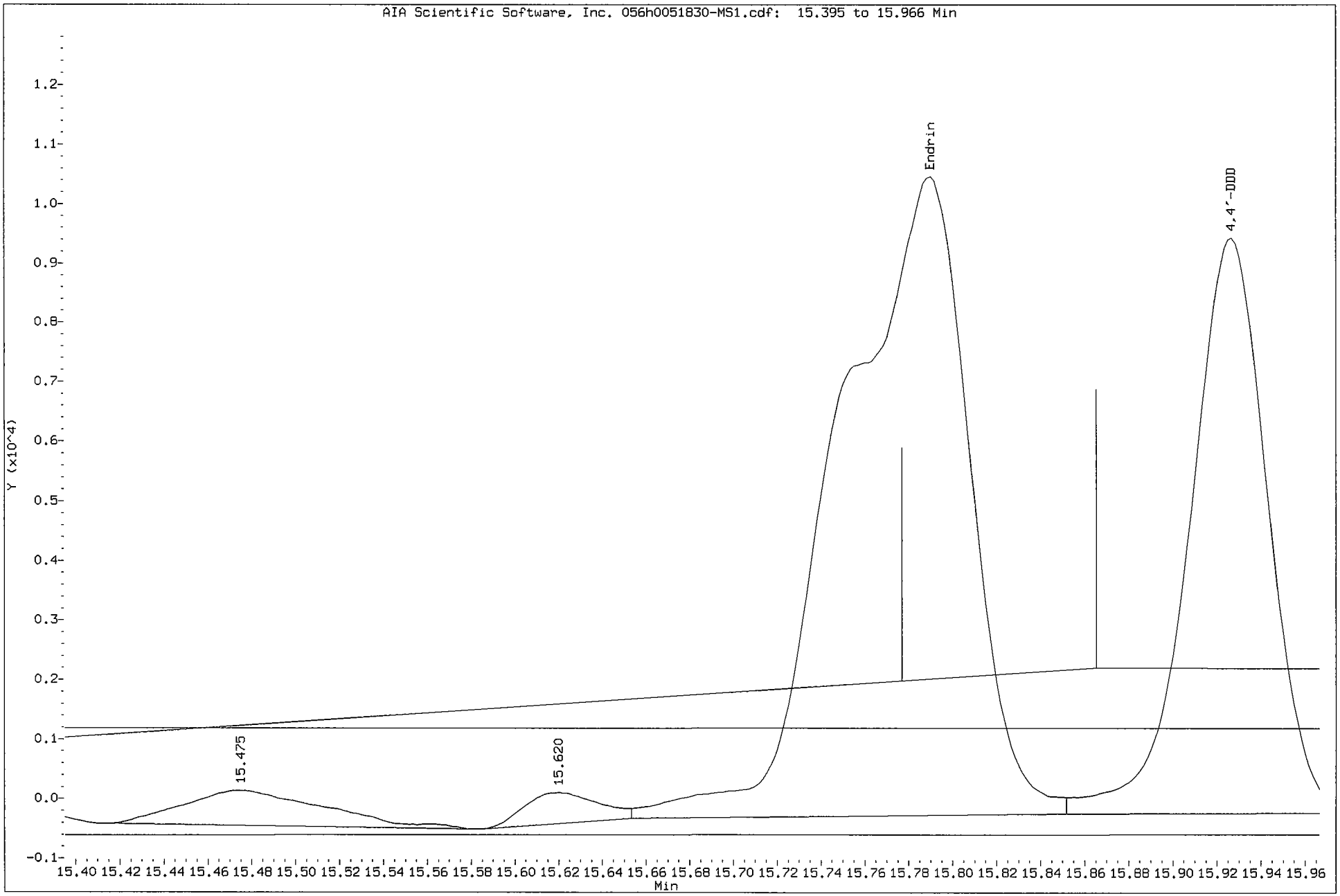
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
25.13		1724								
25.27		206								

Manually Integrated Peaks



Start: 15.76 Stop: 15.85

Data File: /chem/tracegc84.i/h100524d.b/056h0051830-MS1.d/056h0051830-MS1.cdf
Injection Date: 26-MAY-2010 00:50
Instrument: tracegc84.i
Client Sample ID: SS50-0-1MS



Data File: /chem/tracegc84.i/h100524d_2C.b/056h0051830-MS1.d

Date : 26-MAY-2010 00:50

Client ID: SS50-0-1MS

Instrument: tracegc84.i

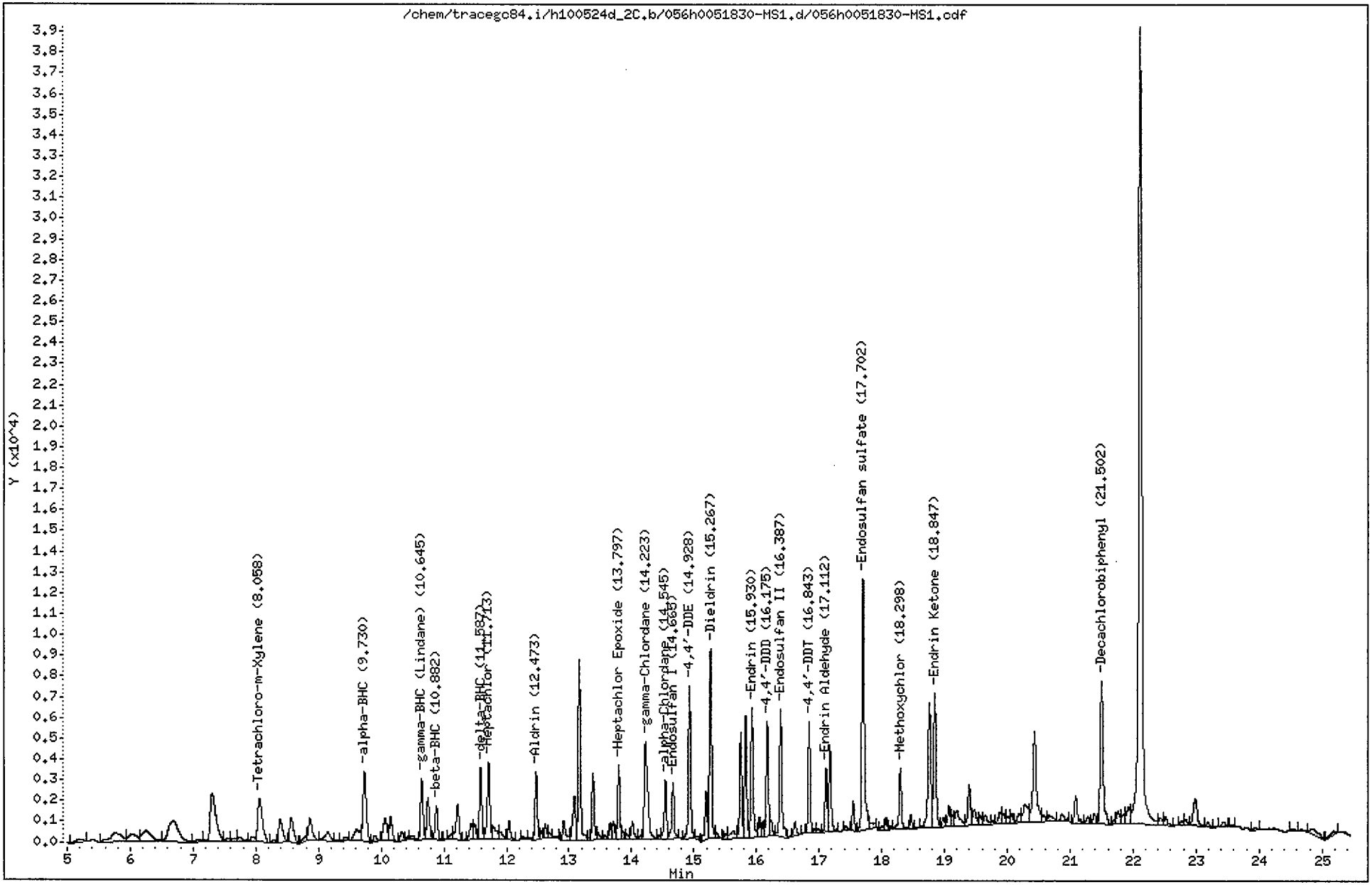
Sample Info: 0051830-MS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.56			33646138								
2.72			1101								
2.81			1477								
3.10			4005								
3.19			28170								
3.86			42144								
4.41			21564								
5.19			1144								
5.76			5554								
6.03			3386								
6.25			5829								
6.69			11268								
7.11			643								
7.31			15002								
7.55			682								
7.65			671								
7.75			806								
7.95			841								
8.06	8.01	8.15	10644	345165	Tetrachloro-m-Xylene	0.030835	7.786497		51.4*	70 - 125	R
8.28			520								
8.38			4865								
8.56			5338								
8.80			930								
8.86			4626								
9.15			2832								
9.28			204								
9.44			850								
9.61			3392								
9.73	9.68	9.82	12269	473680	alpha-BHC	0.025901	6.540771	2.575758	86.3	60 - 125	
9.90			1009								
10.06			4318								
10.15			3602								
10.33			1580								
10.42			300								
10.50			841								
10.64	10.59	10.73	8070	450035	gamma-BHC (Lindane)	0.017930	4.527706	2.575758	59.8*	60 - 125	R
10.74			5987								

6/3/10

CompuChem

Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.88	10.83 10.97	4816	203322	beta-BHC	0.023687	5.981441	1.289394	79.0	60 - 125	
11.02		147								
11.13		836								
11.22		6153								
11.33		92								
11.43		2420								
11.49		2057								
11.59	11.53 11.67	8679	416372	delta-BHC	0.020844	5.263716	2.575758	69.5	55 - 130	
11.71	11.66 11.80	10841	447981	Heptachlor	0.024197	6.110470	2.575758	80.7	50 - 140	
11.79		2805								
11.90		1342								
12.04		2427								
12.26		438								
12.38		223								
12.47	12.42 12.56	8154	415475	Aldrin	0.019626	4.955992	2.575758	65.4	45 - 140	
12.56		812								
12.62		1607								
12.68		948								
12.77		393								
12.91		3202								
13.09		7035								
13.16		22175								
13.33		194								
13.38		8197								
13.46		1225								
13.57		579								
13.66		1864								
13.71		2256								
13.80	13.75 13.89	8976	397168	Heptachlor Epoxide	0.022600	5.707080	2.575758	75.3	65 - 130	
13.86		859								
13.93		695								
14.02		2760								
14.13		401								
14.22	14.17 14.31	17952	394802	gamma-Chlordane	0.045468	11.48189	2.575758	151.6*	65 - 125	R
14.44		371								
14.54	14.49 14.63	7007	348692	alpha-Chlordane	0.020092	5.073788	2.575758	67.0	65 - 120	
14.66	14.61 14.75	7289	375212	Endosulfan I	0.019426	4.905638	2.575758	64.8	15 - 135	

CompuChem

Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.77		182								
14.93	14.88 15.02	18412	352110	4,4'-DDE	0.052290	13.20467	5.000000	69.7*	70 - 125	R
15.05		726								
15.20		5854								
15.27	15.22 15.36	22537	348230	Dieldrin	0.064719	16.34311	5.000000	86.3	65 - 125	
15.36		660								
15.51		635								
15.62		2446								
15.75		12179								
15.83		13988								
15.93	15.88 16.02	15984	319049	Endrin	0.050096	12.65045	5.000000	66.8	60 - 135	
16.05		2345								
16.11		1496								
16.18	16.12 16.26	13329	248368	4,4'-DDD	0.053662	13.55112	5.000000	71.5	30 - 135	
16.23		1823								
16.39	16.34 16.48	16715	304391	Endosulfan II	0.054913	13.86689	5.000000	73.2	35 - 140	
16.54		100								
16.62		2087								
16.84	16.79 16.93	11911	294834	4,4'-DDT	0.040399	10.20178	5.000000	53.9	45 - 140	
16.93		452								
16.99		482								
17.11	17.06 17.20	7127	239136	Endrin Aldehyde	0.029799	7.524978	5.000000	39.7	35 - 145	
17.18		10814								
17.43		580								
17.55		3139								
17.70	17.65 17.79	33154	267371	Endosulfan sulfate	0.124000	31.31310	5.000000	165.3*	60 - 135	R
17.84		1284								
18.02		557								
18.07		1334								
18.15		376								
18.30	18.25 18.39	7909	129586	Methoxychlor	0.061025	15.41032	25.75758	81.4	55 - 145	J
18.47		1517								
18.58		114								
18.76		19029								
18.85	18.80 18.94	17530	304950	Endrin Ketone	0.057485	14.51637	5.000000	76.6	65 - 135	
18.98		1324								
19.07		2687								

CompuChem

Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.13		1398								
19.20		3791								
19.39		5989								
19.48		2771								
19.57		1422								
19.65		1697								
19.77		455								
19.89		1943								
19.94		1489								
20.02		1081								
20.07		1156								
20.18		1596								
20.28		5238								
20.43		16990								
20.58		976								
20.67		1573								
20.87		1438								
21.09		4494								
21.29		1046								
21.39		1487								
21.50	21.45 21.59	22034	301734	Decachlorobiphenyl	0.073021	18.43973		60.9	55 - 130	
21.70		506								
21.76		2322								
21.86		1719								
21.93		3521								
22.11		141820								
22.43		1347								
22.52		1468								
22.77		593								
22.84		1028								
22.99		5738								
23.19		658								
23.31		196								
23.45		912								
23.57		225								
23.94		294								
24.54		285								

CompuChem

Lab Smp Id : 0051830-MS1 Client Smp Id : SS50-0-1MS
Sample Type : MS Sublist : DODPEST
Inj Date : 26-MAY-2010 00:50 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/h100524d_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.84		2135								
25.18		920								

d. Matrix Spike Duplicate Data

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS50-0-1MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix: (soil/water) SOIL Lab Sample ID: 0051830-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 34 decanted: (Y/N) N Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.2	
319-85-7	beta-BHC	4.9	
319-84-6	alpha-BHC	5.6	
319-86-8	delta-BHC	5.2	
58-89-9	gamma-BHC (Lindane)	4.7	
72-54-8	4,4'-DDD	14	
72-55-9	4,4'-DDE	13	
50-29-3	4,4'-DDT	11	
60-57-1	Dieldrin	15	
959-98-8	Endosulfan I	5.6	
33213-65-9	Endosulfan II	12	
1031-07-8	Endosulfan sulfate	18	P
72-20-8	Endrin	15	
7421-93-4	Endrin Aldehyde	6.8	
76-44-8	Heptachlor	6.4	
1024-57-3	Heptachlor Epoxide	5.6	
72-43-5	Methoxychlor	15	J
8001-35-2	Toxaphene	130	U
53494-70-5	Endrin Ketone	14	
5103-74-2	gamma-Chlordane	5.3	P
5103-71-9	alpha-Chlordane	5.4	P

Data File: /chem/tracegc84.i/j100528a.b/029j0051830-MSD1.d

Page 1

Date : 29-MAY-2010 06:21

Client ID: SS50-0-1MSD

Instrument: tracegc84.i

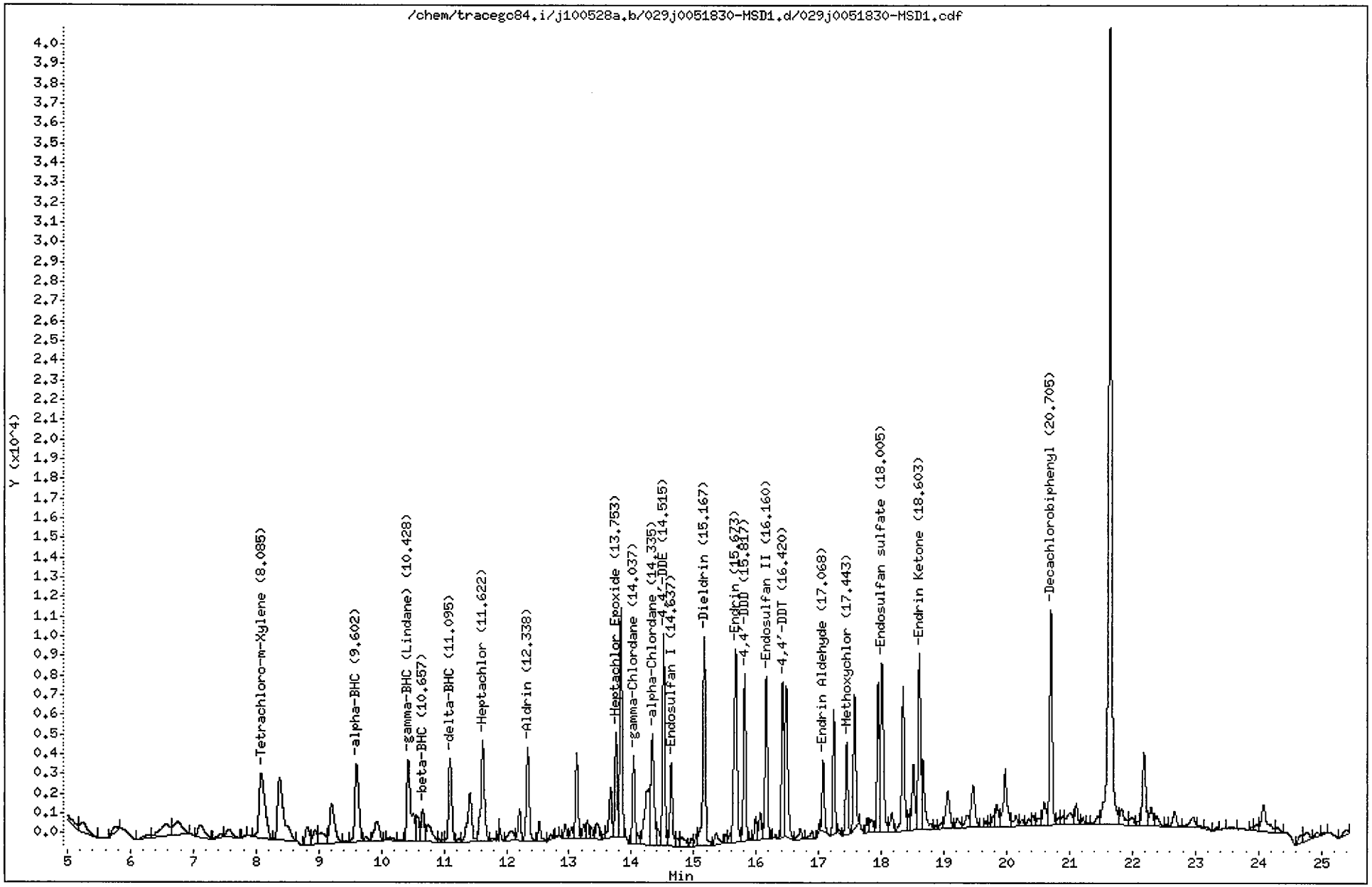
Sample Info: 0051830-MSD1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051830-MSD1 Client Smp Id : SS50-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 06:21 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528a.b/8081A_clpestv6.m
Misc. Info : SS50-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.57			27353258								
3.37			46353								
4.21			54634								
4.75			33198								
5.25			3906								
5.75			1636								
6.28			1434								
6.57			7087								
6.75			6746								
7.11			4616								
7.45			848								
7.56			2273								
7.83			153								
8.08	8.01	8.15	21155	522758	Tetrachloro-m-Xylene	0.040466	10.21873		67.4*	70 - 125	R
8.38			22247								
8.81			4447								
8.94			3150								
9.04			4487								
9.21			10758								
9.44			304								
9.60	9.53	9.67	17215	775960	alpha-BHC	0.022185	5.602379	2.575758	74.0	60 - 125	
9.75			911								
9.92			5892								
10.14			768								
10.32			302								
10.43	10.36	10.50	19694	729192	gamma-BHC (Lindane)	0.027007	6.819845	2.575758	90.0	60 - 125	
10.57			4541								
10.66	10.59	10.73	5789	300532	beta-BHC	0.019259	4.863421	1.289394	64.2	60 - 125	
10.74			5532								
10.92			540								
11.00			462								
11.10	11.02	11.16	15288	689518	delta-BHC	0.022172	5.598996	2.575758	73.9	55 - 130	
11.24			757								
11.41			12453								
11.62	11.55	11.69	19993	695465	Heptachlor	0.028748	7.259513	2.575758	95.8	50 - 140	
11.76			552								
11.89			844								

6/3/10

CompuChem

Lab Smp Id : 0051830-MSD1 Client Smp Id : SS50-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 06:21 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528a.b/8081A_clpestv6.m
Misc. Info : SS50-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.08		2886								
12.21		4591								
12.34	12.27 12.41	15178	636570	Aldrin	0.023842	6.020667	2.575758	79.5	45 - 140	
12.52		3103								
12.71		861								
12.81		199								
12.94		2168								
13.04		1626								
13.12		11993								
13.23		1927								
13.29		2316								
13.36		1458								
13.45		3042								
13.56		517								
13.67		8661								
13.75	13.68 13.82	14233	593700	Heptachlor Epoxide	0.023972	6.053460	2.575758	79.9	65 - 130	
13.83		29800								
14.04	13.97 14.11	12428	594875	gamma-Chlordane	0.020890	5.275279	2.575758	69.6	65 - 125	M 2
14.09		1320								
14.27		15736								
14.34	14.27 14.41	20632	516712	alpha-Chlordane	0.039929	10.08317	2.575758	133.1*	65 - 120	RM 2
14.42		2639								
14.52	14.45 14.59	27902	523741	4,4'-DDE	0.053272	13.45265	5.000000	71.0	70 - 125	
14.64	14.57 14.71	12146	548162	Endosulfan I	0.022156	5.594909	2.575758	73.9	15 - 135	
14.73		1534								
14.81		2901								
14.96		1277								
15.05		1564								
15.17	15.10 15.24	31600	515556	Dieldrin	0.061293	15.47804	5.000000	81.7	65 - 125	
15.36		2579								
15.51		1187								
15.59		981								
15.67	15.61 15.75	33783	463071	Endrin	0.072954	18.42278	5.000000	97.3	60 - 135	
15.82	15.75 15.89	21639	393458	4,4'-DDD	0.054997	13.88814	5.000000	73.3	30 - 135	
15.92		271								
15.99		3092								
16.06		3951								

6/3/10

CompuChem

Lab Smp Id : 0051830-MSD1 Client Smp Id : SS50-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 06:21 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528a.b/8081A_clpestv6.m
Misc. Info : SS50-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.16	16.09 16.23	22174	450326	Endosulfan II	0.049240	12.43431	5.000000	65.7	35 - 140	
16.31		488								
16.42	16.35 16.49	20283	454781	4,4'-DDT	0.044599	11.26249	5.000000	59.5	45 - 140	
16.48		24846								
16.71		1867								
16.89		1422								
17.00		892								
17.07	17.00 17.14	9340	348470	Endrin Aldehyde	0.026800	6.767680	5.000000	35.7	35 - 145	
17.24		14564								
17.32		584								
17.44	17.37 17.51	12203	194359	Methoxychlor	0.062781	15.85372	25.75758	83.7	55 - 145	J
17.57		18646								
17.77		1881								
17.83		2754								
17.95		19073								
18.00	17.93 18.07	28405	392055	Endosulfan sulfate	0.072449	18.29521	5.000000	96.6	60 - 135	
18.16		3401								
18.34		22164								
18.44		2295								
18.51		10442								
18.60	18.53 18.67	25019	457258	Endrin Ketone	0.054713	13.81645	5.000000	73.0	65 - 135	
18.66		11902								
18.86		526								
18.95		899								
19.06		8344								
19.21		2087								
19.37		2599								
19.46		8701								
19.66		840								
19.74		457								
19.79		1479								
19.84		3884								
19.97		12452								
20.14		2306								
20.24		1112								
20.35		1272								
20.42		1741								

CompuChem

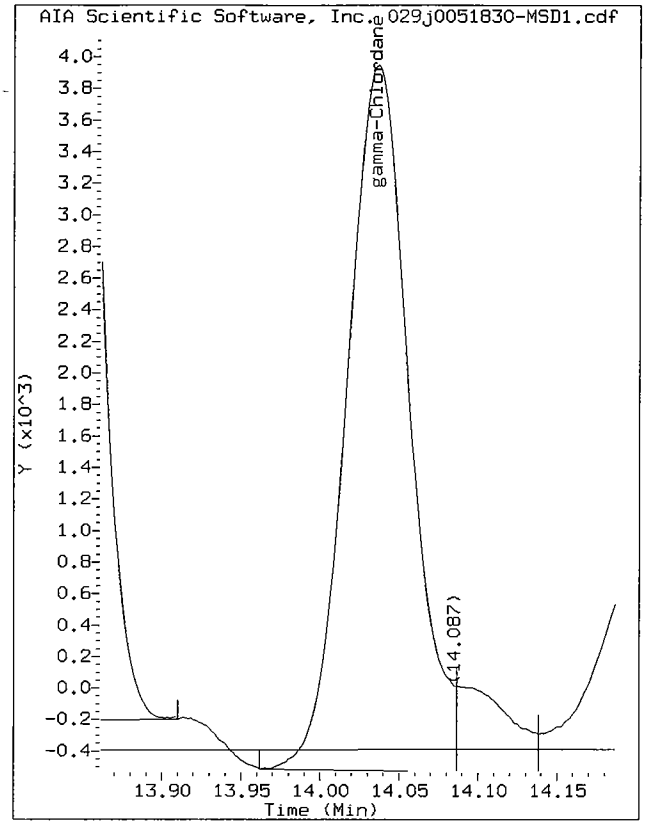
Lab Smp Id : 0051830-MSD1 Client Smp Id : SS50-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 06:21 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528a.b/8081A_clpestv6.m
Misc. Info : SS50-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

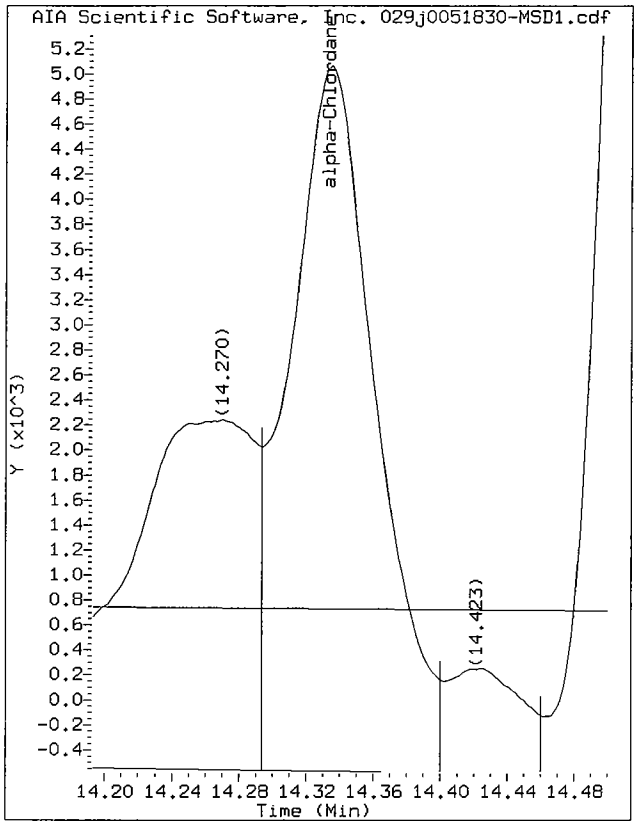
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.50		1679								
20.59		4547								
20.70	20.63 20.77	30762	408350	Decachlorobiphenyl	0.075332	19.02334		62.8	55 - 130	
20.83		1205								
20.89		1478								
21.00		3600								
21.11		3218								
21.21		843								
21.45		1662								
21.64		137436								
21.83		4157								
22.00		1816								
22.09		554								
22.18		13593								
22.30		3500								
22.39		2219								
22.53		340								
22.67		3358								
22.96		3217								
23.06		379								
23.18		470								
23.33		458								
23.44		193								
23.58		542								
23.91		557								
23.98		1237								
24.08		7917								
24.30		1162								
24.68		1579								
24.78		2764								
24.93		1087								
25.06		371								
25.40		1204								

Manually Integrated Peaks

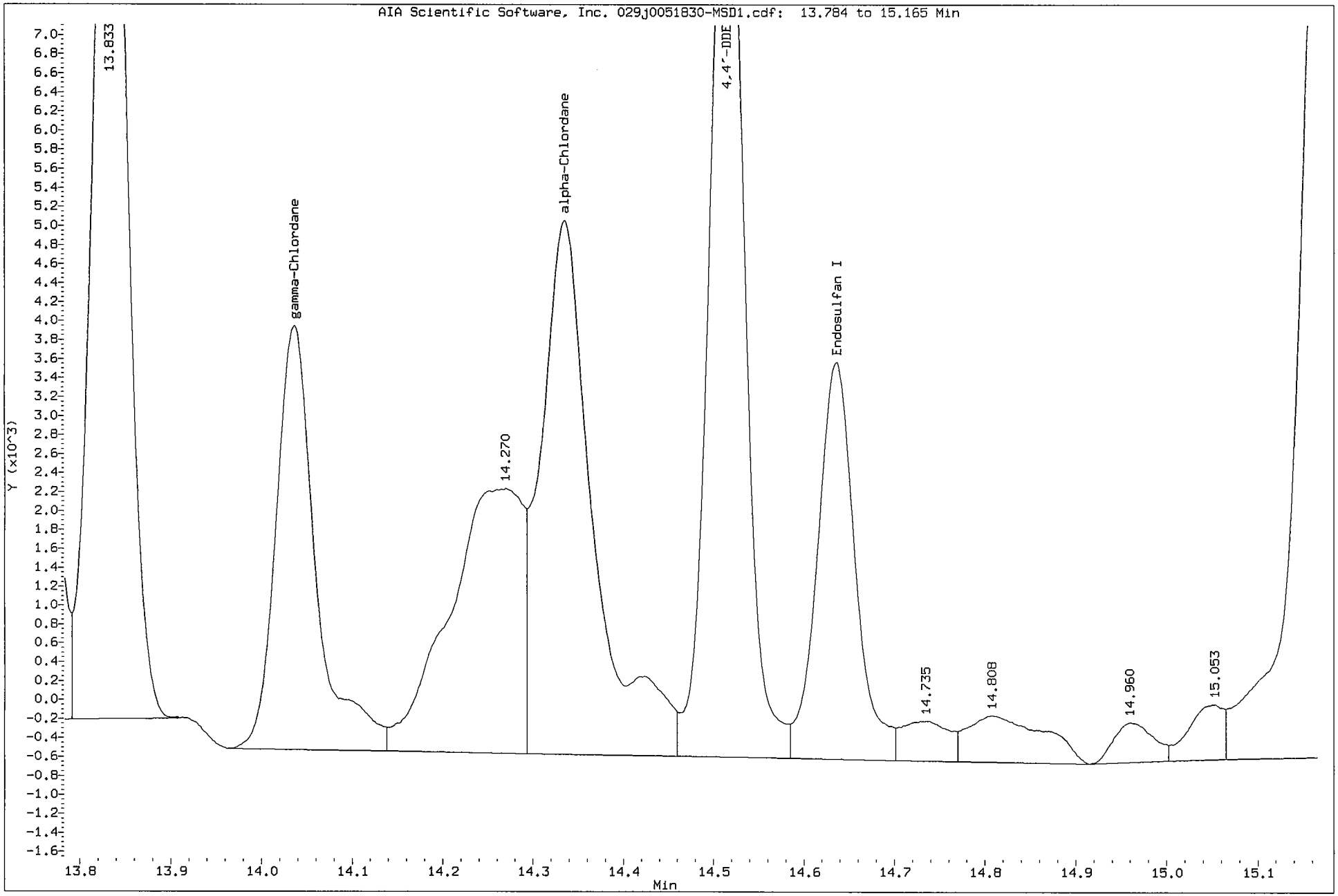


Start: 13.96 Stop: 14.09



Start: 14.29 Stop: 14.40

Data File: /chem/tracegc84.i/j100528a.b/029j0051830-MSD1.d/029j0051830-MSD1.cdf
Injection Date: 29-MAY-2010 06:21
Instrument: tracegc84.i
Client Sample ID: SS50-0-1MSD



Data File: /chem/tracegc84.i/j100528a_2C.b/029j0051830-MSD1.d

Date : 29-MAY-2010 06:21

Client ID: SS50-0-1MSD

Instrument: tracegc84.i

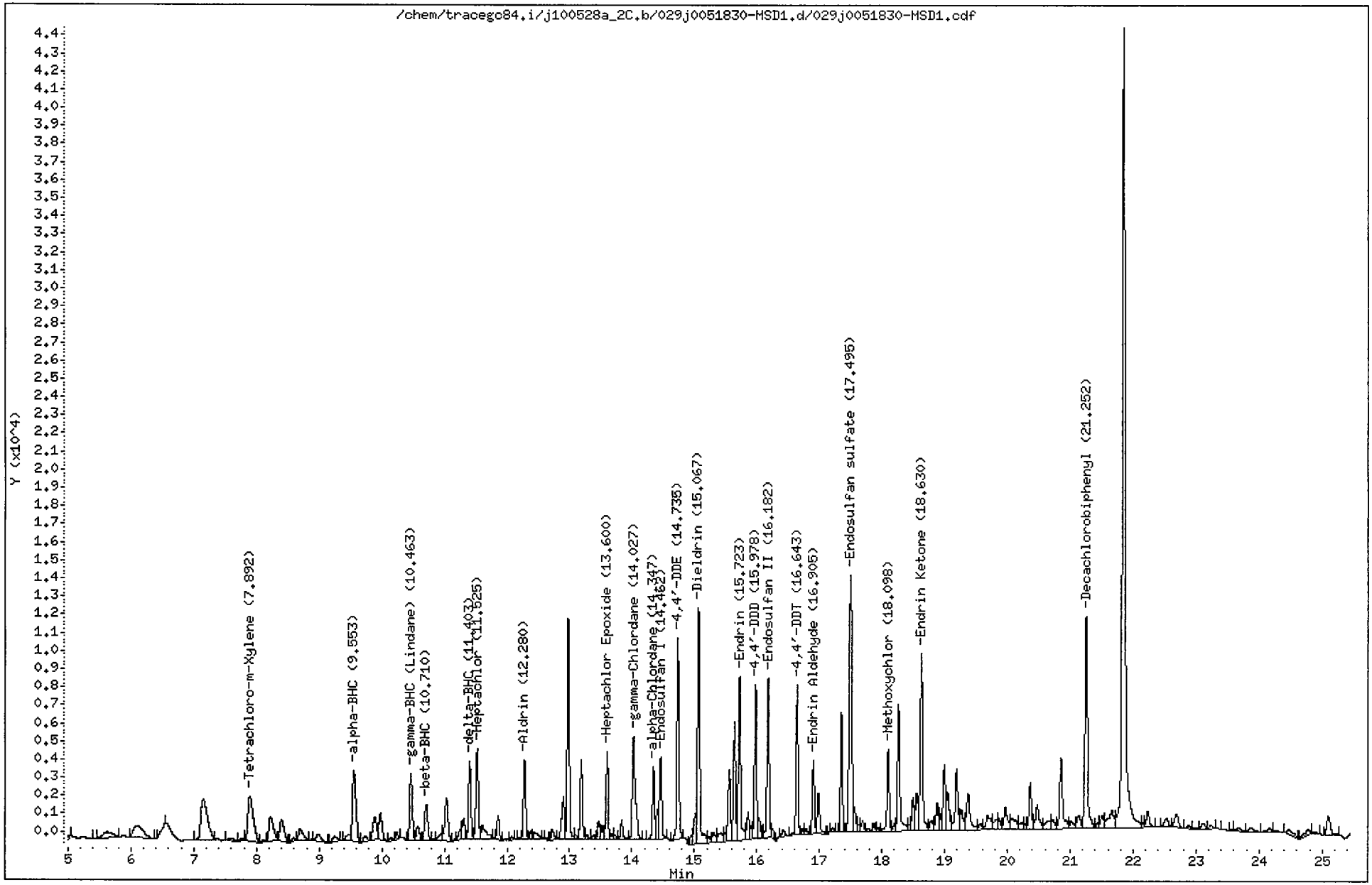
Sample Info: 0051830-MSD1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



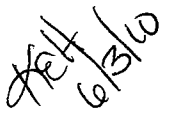
CompuChem

Lab Smp Id : 0051830-MSD1 Client Smp Id : SS50-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 06:21 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.55			19910573								
3.00			11862								
3.08			79117								
3.77			72877								
4.28			36862								
5.03			303								
5.45			97								
5.63			3183								
6.10			7550								
6.55			276								
7.15			16704								
7.58			704								
7.78			397								
7.89	7.82	7.96	14934	416798	Tetrachloro-m-Xylene	0.035830	9.048068		59.7*	70 - 125	R
8.12			333								
8.23			6859								
8.40			5675								
8.59			675								
8.70			3138								
8.98			2183								
9.24			1263								
9.47			1216								
9.55	9.48	9.62	14992	607758	alpha-BHC	0.024666	6.228810	2.575758	82.2	60 - 125	
9.73			1120								
9.89			5025								
9.97			5185								
10.15			596								
10.24			920								
10.46	10.39	10.53	10918	585542	gamma-BHC (Lindane)	0.018646	4.708575	2.575758	62.2	60 - 125	
10.57			2549								
10.71	10.63	10.77	6959	248610	beta-BHC	0.027988	7.067579	1.289394	93.3	60 - 125	
10.84			197								
10.95			1450								
11.03			8284								
11.16			121								
11.27			1487								
11.31			3666								



CompuChem

Lab Smp Id : 0051830-MSD1 Client Smp Id : SS50-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 06:21 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.40	11.33 11.47	11405	551235	delta-BHC	0.020690	5.224724	2.575758	69.0	55 - 130	
11.52	11.45 11.59	14579	579497	Heptachlor	0.025158	6.353034	2.575758	83.9	50 - 140	
11.61		4187								
11.79		251								
11.86		3452								
12.07		351								
12.20		259								
12.28	12.21 12.35	11226	542192	Aldrin	0.020705	5.228491	2.575758	69.0	45 - 140	
12.38		988								
12.44		1969								
12.58		95								
12.63		251								
12.72		1769								
12.90		7550								
12.98		28714								
13.10		611								
13.19		10843								
13.28		730								
13.38		523								
13.46		2290								
13.52		1819								
13.60	13.53 13.67	11422	511912	Heptachlor Epoxide	0.022310	5.633953	2.575758	74.4	65 - 130	
13.67		709								
13.73		517								
13.84		2672								
14.03	13.95 14.09	19242	513150	gamma-Chlordane	0.037498	9.469143	2.575758	125.0	65 - 125	
14.35	14.28 14.42	9539	446248	alpha-Chlordane	0.021376	5.397987	2.575758	71.3	65 - 120	
14.41		3461								
14.46	14.39 14.53	12201	477982	Endosulfan I	0.025526	6.445969	2.575758	85.1	15 - 135	
14.74	14.67 14.81	25938	468602	4,4'-DDE	0.055350	13.97719	5.000000	73.8	70 - 125	
14.95		1122								
15.01		3737								
15.07	14.99 15.13	34436	461929	Dieldrin	0.074546	18.82478	5.000000	99.4	65 - 125	
15.24		981								
15.31		1833								
15.42		2579								
15.49		1172								

CompuChem

Lab Smp Id : 0051830-MSD1 Client Smp Id : SS50-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 06:21 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.56		10679								
15.64		15326								
15.72	15.65 15.79	23696	408649	Endrin	0.057984	14.64237	5.000000	77.3	60 - 135	
15.86		3980								
15.91		1626								
15.98	15.91 16.05	19574	340626	4,4'-DDD	0.057465	14.51130	5.000000	76.6	30 - 135	
16.04		2720								
16.11		402								
16.18	16.11 16.25	21351	404930	Endosulfan II	0.052728	13.31506	5.000000	70.3	35 - 140	
16.25		1352								
16.34		95								
16.43		1337								
16.58		335								
16.64	16.57 16.71	17681	405929	4,4'-DDT	0.043557	10.99922	5.000000	58.1	45 - 140	
16.73		624								
16.79		751								
16.90	16.83 16.97	9364	316985	Endrin Aldehyde	0.029541	7.459806	5.000000	39.4	35 - 145	
16.99		6191								
17.16		139								
17.21		488								
17.35		13772								
17.50	17.42 17.56	44046	366674	Endosulfan sulfate	0.120120	30.33344	5.000000	160.2*	60 - 135	RM 2
17.55		3081								
17.63		1141								
17.69		1720								
17.78		506								
17.87		1003								
17.94		457								
18.10	18.03 18.17	10894	182916	Methoxychlor	0.059557	15.03977	25.75758	79.4	55 - 145	J
18.20		1067								
18.27		19169								
18.44		776								
18.49		4717								
18.55		6027								
18.63	18.56 18.70	26592	419519	Endrin Ketone	0.063385	16.00620	5.000000	84.5	65 - 135	
18.78		2071								
18.88		4206								

AH 6/3/10

CompuChem

Lab Smp Id : 0051830-MSD1 Client Smp Id : SS50-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 06:21 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.92		2217								
18.99		10137								
19.05		6513								
19.19		10163								
19.27		4062								
19.37		8788								
19.57		1076								
19.69		4491								
19.82		2155								
19.86		1901								
19.97		4954								
20.07		3926								
20.22		1695								
20.29		820								
20.36		7356								
20.48		5412								
20.65		2770								
20.73		1897								
20.86		13620								
21.01		1769								
21.14		3021								
21.25	21.18 21.32	34235	406698	Decachlorobiphenyl	0.084176	21.25646		70.1	55 - 130	
21.44		960								
21.51		2500								
21.66		5760								
21.85		146165								
22.16		835								
22.23		3059								
22.54		2038								
22.70		3476								
22.89		720								
22.99		217								
23.11		1266								
23.24		581								
23.44		349								
23.58		129								
23.68		841								

CompuChem

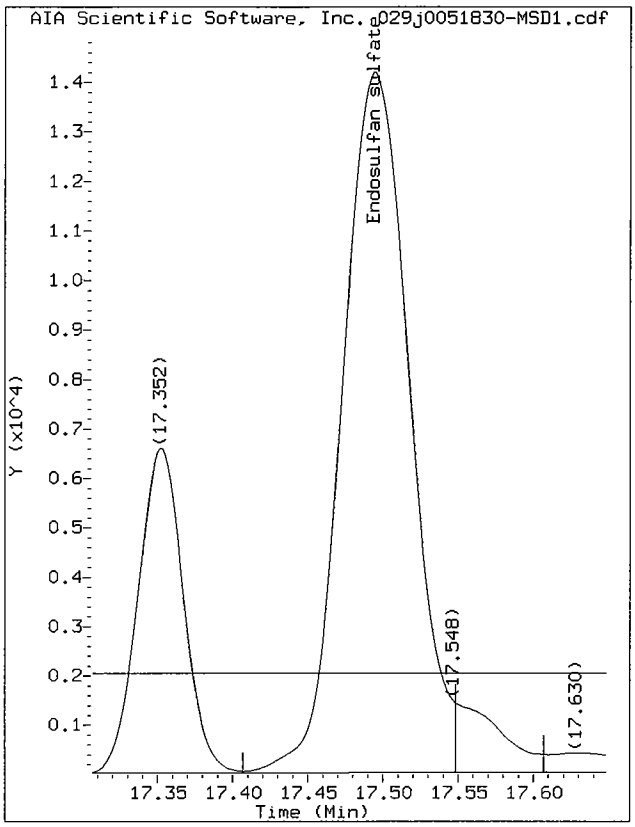
Lab Smp Id : 0051830-MSD1 Client Smp Id : SS50-0-1MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 29-MAY-2010 06:21 Inst ID :
Operator : AHW Spike Sublist : DODSoil
Method : /chem/tracegc84.i/j100528a_2C.b/8081A_clpest2v6.m
Misc. Info : SS50-0-1MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 34(%)

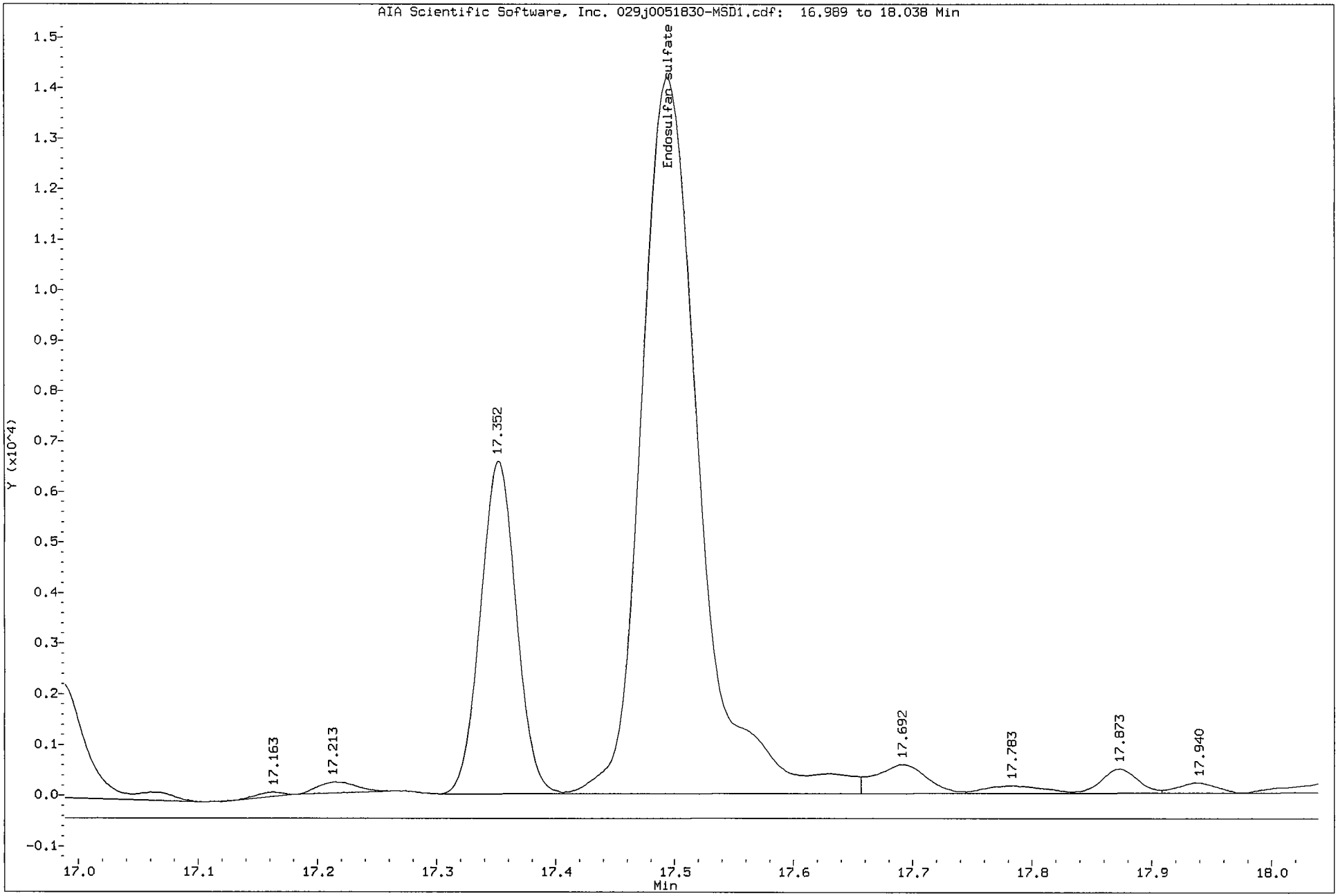
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.87		1282								
24.17		972								
24.28		443								
24.47		1946								
24.77		1828								
24.88		461								
25.10		4381								

Manually Integrated Peaks



Start: 17.41 Stop: 17.55

Data File: /chem/tracegc84.i/j100528a_2C.b/029j0051830-MSD1.d/029j0051830-MSD1.cdf
Injection Date: 29-MAY-2010 06:21
Instrument: tracegc84.i
Client Sample ID: SS50-0-1MSD



CompuChem

A Division Of

Liberty Analytical Corp.

6/29/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S, WorkOrder: 1005130

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Joan Pardee

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005130

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005130

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005130-01	SS23-00-01	Soil	05/10/2010 16:20	05/13/2010 09:30
1005130-02	SB23-1.5-2	Soil	05/10/2010 16:30	05/13/2010 09:30
1005130-03	SS24-0-1	Soil	05/11/2010 10:45	05/13/2010 09:30
1005130-04	SB24-3-4	Soil	05/11/2010 10:55	05/13/2010 09:30
1005130-05	SS49-0-1	Soil	05/11/2010 14:05	05/13/2010 09:30
1005130-06	SB49-11-12	Soil	05/11/2010 14:22	05/13/2010 09:30
1005130-07	SS50-0-1	Soil	05/11/2010 14:45	05/13/2010 09:30
1005130-08	SB47-14-15	Soil	05/12/2010 09:40	05/13/2010 09:30
1005130-09	SS47-0-1	Soil	05/12/2010 09:10	05/13/2010 09:30
1005130-10	SS11-0-1	Soil	05/12/2010 16:05	05/13/2010 09:30
1005130-11	SB11-11-12	Soil	05/12/2010 16:20	05/13/2010 09:30
1005130-12	SB48-7-8	Soil	05/12/2010 11:30	05/13/2010 09:30
1005130-13	SS48-0-1	Soil	05/12/2010 11:00	05/13/2010 09:30
1005130-14	SS18-0-1	Soil	05/12/2010 15:05	05/14/2010 09:20
1005130-15	SB18-12-13	Soil	05/12/2010 15:20	05/14/2010 09:20
1005130-16	SS25-0-1	Soil	05/13/2010 11:05	05/14/2010 09:20
1005130-17	SB25-3-4	Soil	05/12/2010 11:10	05/14/2010 09:20
1005130-18	SS08-0-1	Soil	05/13/2010 12:40	05/14/2010 16:00
1005130-19	SB08-6-7	Soil	05/13/2010 13:00	05/14/2010 16:00
1005130-20	SS05-0-1	Soil	05/14/2010 08:00	05/14/2010 16:00

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC/MS by SW-846

Modified For Selected Ion Monitoring (SIM)

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

A. SDG Narrative

B. Tabulated target compound results (Form I)

C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low or Medium)

D. Spike results MS / MSD / LCS (Form III)

E. Blank data (Form IV)
Tabulated blank results (Form I)

F. Internal standard area response and retention time data (Form VIII)

LAB CODE : LIBRTY

METHOD: 8270C

SDG # : 1005130

A. SDG Narrative

CompuChem
A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005130
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SS23-00-01, SB23-1.5-2, SS24-01-1, SB24-3-4, SS49-0-1, SB49-11-12, SS50-0-1, SB47-14-15, SS47-0-1, SS11-0-1, SB11-11-12, SB48-7-8, SS48-0-1, SS18-0-1, SB18-12-13, SS25-0-1, SB25-3-4, SS08-0-1, SB08-6-7, and SS05-0-1.

The twenty soil samples listed above were received intact, refrigerated between 0.2-1.4°C, in sealed shipping containers, on May 13-14, 2010. The samples were scheduled for the requested analyses of the semivolatile fraction. SW-846, 3rd Edition, Update 3, Sonication extraction (Method 3550B), Method 8270C and Selected Ion Monitoring (SIM) were used to prepare and analyze these samples. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for SDG # 1005130 are included in the sample data sections. Holding time requirements were met for the initial extractions of all of these samples. Surrogate recovery criteria were not met in the analysis of the initial extract of SB49-11-12, SS50-0-1, SB11-11-12, SB48-7-8, SB18-12-13, SS25-0-1, SB08-6-7, and SS05-0-1. The samples were reextracted outside of holding times. The analysis of the second extracts met all quality control criteria for all of the samples listed above except for SB11-11-12. We have reported both analyses of samples listed above. Sample SB11-11-12 was reextracted and reanalyzed and the surrogate again failed recovery criteria. We have attributed the failing surrogate recovery to the particular matrix of the sample. We have reported both analyses of SB11-11-12. The percent moisture values of these soil samples ranged from 4 to 34.

There were multiple polyaromatic hydrocarbons identified above the quantitation limit in one of these samples: SS05-0-1. Please see the manual integration summary for specific information regarding manual integrations in the data files for this work order. The reasons for the manual integrations have been coded with explanations provided in the notice included in the narrative section of the SDG.

In the initial analysis of the second extract of SS25-0-1 the response of the internal standards failed quality control criteria. The sample was reinjected and the internal standards failed response criteria again. We have reported both analyses of the second extract of SS25-0-1.

Mass assignments were verified by the injections of perfluorotributylamine (PFTBA). Overall QC criteria were met for all initial and continuing calibration standards associated with this SDG. All of the surrogates met recovery criteria, except previously discussed, analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples, except previously discussed. The associated method blanks met all quality control criteria. SS50-0-1 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria. The associated Laboratory Control Samples (LCSs) met all accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Jennifer B. Rebman
Quality Assurance Manager
June 29, 2010

Manual Integrations											
SDG: 1005130	MSD	SS24-0-1	SS47-0-1	SS11-0-1	SS23-00-01	SS49-0-1	SS08-0-1	MS	SS50-0-1	SS05-0-1	
Compound											
Naphthalene											
2-Methylnaphthalene			X								
1-Methylnaphthalene											
Acenaphtylene					X						
Acenaphthene											
Fluorene										X	
Phenanthrene											
Anthracene							X		X		
Fluoranthene					X						
Pyrene											
Benzo(a)anthracene											
Chrysene					X				X		
Benzo(b)fluoranthene			X		X				X		
Benzo(k)fluoranthene		X			X			X	X		
Benzo(a)pyrene		X			X				X		
Indeno(1,2,3-cd)pyrene	X	X			X			X	X		
Dibenzo(a,h)anthracene	X							X			
Benzo(g,h,i)perylene	X	X			X		X	X	X		
1,4-Dichlorobenzene-d4											
Nahthalene-d8											
Acenapthene-d10						X					
Phenanthrene-d10											
Chrysene-d12											
Perylene-d12				X							
2-fluorophenol											
Phenol-d5											
Nitrobenzene-d5								X			
2,4,6-Tribromophenol											
2-Fluorobiphenyl											
Terphenyl-d14											
"X" Denotes a manual integration for the compound											

Manual Integrations											
SDG: 1005130	SBLKDY	SB49-11-	SB48-7-	SS05-0-	SS50-0-	SS25-0-	SS25-0-				
		12RE	8RE	1RE	1RE	1RX	1RXRE				
Compound											
Naphthalene	X	X	X			X	X				
2-Methylnaphthalene					X						
1-Methylnaphthalene											
Acenaphtylene											
Acenaphthene											
Fluorene											
Phenanthrene											
Anthracene					X						
Fluoranthene											
Pyrene				X							
Benzo(a)anthracene					X						
Chrysene					X						
Benzo(b)fluoranthene			X		X						
Benzo(k)fluoranthene			X	X	X						
Benzo(a)pyrene			X	X							
Indeno(1,2,3-cd)pyrene					X						
Dibenzo(a,h)anthracene											
Benzo(g,h,i)perylene					X						
1,4-Dichlorobenzene-d4											
Nahthalene-d8											
Acenapthene-d10											
Phenanthrene-d10											
Chrysene-d12					X						
Perylene-d12											
2-fluorophenol											
Phenol-d5											
Nitrobenzene-d5				X							
2,4,6-Tribromophenol											
2-Fluorobiphenyl											
Terphenyl-d14				X							
"X" Denotes a manual integration for the compound											

GC and GC/MS Column and Trap Specifications Table

SDG #:	100530

COLUMNS*

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
√	Restek	clpest	0.32	0.5	30
√	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
√	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS*

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semi-volatiles, pesticides, and Aroclors by the SOM01.2 SOW. Please see the SDG Narratives(s) for the specific fraction(s) relative to this SDG.

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Form I

Organic Analysis Data Sheet (OADS)
- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB08-6-7

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-19
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-19C66
Analyst: 2743

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	ND	U
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB08-6-7RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-19RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-19RJA66
Analyst: MEW

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	1.4	JB
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB11-11-12

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-11
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-11C66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB11-11-12RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-11RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-11REJ2A66
Analyst: 2650

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB18-12-13

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-15
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-15C66
Analyst: 2743

% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	ND	U
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	9.9	ND	U
50-32-8	Benzo(a)pyrene	0.46	9.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB18-12-13RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-15RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-15RJA66
Analyst: MEW

% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	0.90	JB
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	9.9	ND	U
50-32-8	Benzo(a)pyrene	0.46	9.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB23-1.5-2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/10/10

Lab Sample ID: 1005130-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-02J2C66
Analyst: 2743

% Moisture: 19 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.88	10	ND	U
91-57-6	2-Methylnaphthalene	0.84	10	ND	U
208-96-8	Acenaphthylene	0.66	10	ND	U
83-32-9	Acenaphthene	0.74	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.70	10	ND	U
56-55-3	Benzo(a)anthracene	0.70	10	ND	U
218-01-9	Chrysene	0.78	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.70	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB24-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-04C66
Analyst: 2743

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	ND	U
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB25-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-17
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-17C66
Analyst: 2743

% Moisture: 6 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.76	8.8	ND	U
91-57-6	2-Methylnaphthalene	0.73	8.8	ND	U
208-96-8	Acenaphthylene	0.57	8.8	ND	U
83-32-9	Acenaphthene	0.64	8.8	ND	U
86-73-7	Fluorene	0.48	8.8	ND	U
85-01-8	Phenanthrene	1.4	8.8	ND	U
120-12-7	Anthracene	0.46	8.8	ND	U
206-44-0	Fluoranthene	1.4	8.8	ND	U
129-00-0	Pyrene	0.60	8.8	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.8	ND	U
218-01-9	Chrysene	0.67	8.8	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.8	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.8	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.8	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.8	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.8	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.8	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB47-14-15

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-08
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-08C66
Analyst: 2743

% Moisture: 31 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.0	12	ND	U
91-57-6	2-Methylnaphthalene	0.99	12	ND	U
208-96-8	Acenaphthylene	0.77	12	ND	U
83-32-9	Acenaphthene	0.87	12	ND	U
86-73-7	Fluorene	0.65	12	ND	U
85-01-8	Phenanthrene	1.9	12	3.6	J
120-12-7	Anthracene	0.63	12	ND	U
206-44-0	Fluoranthene	1.9	12	ND	U
129-00-0	Pyrene	0.82	12	ND	U
56-55-3	Benzo(a)anthracene	0.82	12	ND	U
218-01-9	Chrysene	0.92	12	ND	U
205-99-2	Benzo(b)fluoranthene	0.82	12	ND	U
207-08-9	Benzo(k)fluoranthene	0.63	12	ND	U
50-32-8	Benzo(a)pyrene	0.56	12	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.53	12	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.48	12	ND	U
191-24-2	Benzo(g,h,i)perylene	0.56	12	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB48-7-8

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-12
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-12JC66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	ND	U
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB48-7-8RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-12RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-12RE1JA66
Analyst: OWS

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	1.8	JB
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	3.0	J
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	3.9	J
129-00-0	Pyrene	0.72	11	2.9	J
56-55-3	Benzo(a)anthracene	0.72	11	1.8	J
218-01-9	Chrysene	0.80	11	2.8	J
205-99-2	Benzo(b)fluoranthene	0.72	11	1.3	J
207-08-9	Benzo(k)fluoranthene	0.55	11	1.1	J
50-32-8	Benzo(a)pyrene	0.49	11	0.86	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	0.61	J
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	0.66	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB49-11-12

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-06
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-06J2C66
Analyst: 2743

% Moisture: 24 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.94	11	ND	U
91-57-6	2-Methylnaphthalene	0.90	11	ND	U
208-96-8	Acenaphthylene	0.70	11	ND	U
83-32-9	Acenaphthene	0.79	11	ND	U
86-73-7	Fluorene	0.59	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.57	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.75	11	ND	U
56-55-3	Benzo(a)anthracene	0.75	11	ND	U
218-01-9	Chrysene	0.83	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.75	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.57	11	ND	U
50-32-8	Benzo(a)pyrene	0.50	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.48	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.44	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.50	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB49-11-12RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-06RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-06REJ2A66
Analyst: 2650

% Moisture: 24 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.94	11	1.2	JB
91-57-6	2-Methylnaphthalene	0.90	11	ND	U
208-96-8	Acenaphthylene	0.70	11	ND	U
83-32-9	Acenaphthene	0.79	11	ND	U
86-73-7	Fluorene	0.59	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.57	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.75	11	ND	U
56-55-3	Benzo(a)anthracene	0.75	11	ND	U
218-01-9	Chrysene	0.83	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.75	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.57	11	ND	U
50-32-8	Benzo(a)pyrene	0.50	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.48	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.44	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.50	11	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS05-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005130-20
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-20C66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	0.64	J
85-01-8	Phenanthrene	1.7	11	15	
120-12-7	Anthracene	0.55	11	2.8	J
206-44-0	Fluoranthene	1.7	11	41	
129-00-0	Pyrene	0.72	11	27	
56-55-3	Benzo(a)anthracene	0.72	11	17	
218-01-9	Chrysene	0.80	11	17	
205-99-2	Benzo(b)fluoranthene	0.72	11	17	
207-08-9	Benzo(k)fluoranthene	0.55	11	13	
50-32-8	Benzo(a)pyrene	0.49	11	12	
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	9.5	J
53-70-3	Dibenzo(a,h)anthracene	0.42	11	2.7	J
191-24-2	Benzo(g,h,i)perylene	0.49	11	7.4	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS05-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005130-20RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-20RJA66
Analyst: MEW

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	2.1	JB
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	0.87	J
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	0.85	J
205-99-2	Benzo(b)fluoranthene	0.72	11	0.79	J
207-08-9	Benzo(k)fluoranthene	0.55	11	0.73	J
50-32-8	Benzo(a)pyrene	0.49	11	0.60	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS08-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-18
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-18C66
Analyst: 2743

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	ND	U
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	ND	U
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	ND	U
120-12-7	Anthracene	0.48	9.2	1.2	J
206-44-0	Fluoranthene	1.5	9.2	3.0	J
129-00-0	Pyrene	0.63	9.2	3.9	J
56-55-3	Benzo(a)anthracene	0.63	9.2	2.1	J
218-01-9	Chrysene	0.70	9.2	5.7	J
205-99-2	Benzo(b)fluoranthene	0.63	9.2	7.4	J
207-08-9	Benzo(k)fluoranthene	0.48	9.2	4.9	J
50-32-8	Benzo(a)pyrene	0.43	9.2	2.0	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	3.2	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	2.6	J

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS11-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-10
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-10C66
Analyst: 2743

% Moisture: 4 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.6	ND	U
91-57-6	2-Methylnaphthalene	0.71	8.6	ND	U
208-96-8	Acenaphthylene	0.56	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.47	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	ND	U
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	ND	U
129-00-0	Pyrene	0.59	8.6	ND	U
56-55-3	Benzo(a)anthracene	0.59	8.6	ND	U
218-01-9	Chrysene	0.66	8.6	ND	U
205-99-2	Benzo(b)fluoranthene	0.59	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS18-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-14
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-14C66
Analyst: 2743

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS23-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/10/10

Lab Sample ID: 1005130-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-01JC66
Analyst: 2743

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	0.89	J
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	0.60	J
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	1.5	J
120-12-7	Anthracene	0.48	9.2	0.55	J
206-44-0	Fluoranthene	1.5	9.2	ND	U
129-00-0	Pyrene	0.63	9.2	1.5	J
56-55-3	Benzo(a)anthracene	0.63	9.2	0.92	J
218-01-9	Chrysene	0.70	9.2	1.2	J
205-99-2	Benzo(b)fluoranthene	0.63	9.2	1.8	J
207-08-9	Benzo(k)fluoranthene	0.48	9.2	0.99	J
50-32-8	Benzo(a)pyrene	0.43	9.2	1.0	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	1.9	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	2.6	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS24-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-03C66
Analyst: 2743

% Moisture: 11 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.3	ND	U
91-57-6	2-Methylnaphthalene	0.77	9.3	ND	U
208-96-8	Acenaphthylene	0.60	9.3	ND	U
83-32-9	Acenaphthene	0.67	9.3	ND	U
86-73-7	Fluorene	0.51	9.3	0.65	J
85-01-8	Phenanthrene	1.5	9.3	3.1	J
120-12-7	Anthracene	0.49	9.3	0.70	J
206-44-0	Fluoranthene	1.5	9.3	2.9	J
129-00-0	Pyrene	0.64	9.3	2.5	J
56-55-3	Benzo(a)anthracene	0.64	9.3	1.2	J
218-01-9	Chrysene	0.71	9.3	1.4	J
205-99-2	Benzo(b)fluoranthene	0.64	9.3	1.2	J
207-08-9	Benzo(k)fluoranthene	0.49	9.3	0.72	J
50-32-8	Benzo(a)pyrene	0.43	9.3	0.58	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.3	0.79	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.3	0.66	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS25-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-16
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-16C66
Analyst: 2743

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	ND	U
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	0.88	J
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS25-0-1RX

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-16RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-16RJA66
Analyst: MEW

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	1.9	JB
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS25-0-1RX2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-16RE2
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-16RJ2A66
Analyst: MEW

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	1.9	JB
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS47-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-09
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-09C66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	1.0	J
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	2.1	J
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	0.74	J
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	1.2	J
205-99-2	Benzo(b)fluoranthene	0.71	10	0.85	J
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS48-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-13
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-13C66
Analyst: 2743

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS49-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-05
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-05J2C66
Analyst: 2743

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-07
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-07JC66
Analyst: 2743

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	2.0	J
91-57-6	2-Methylnaphthalene	1.0	13	1.1	J
208-96-8	Acenaphthylene	0.81	13	ND	U
83-32-9	Acenaphthene	0.91	13	1.3	J
86-73-7	Fluorene	0.68	13	0.69	J
85-01-8	Phenanthrene	2.0	13	2.5	J
120-12-7	Anthracene	0.66	13	0.74	J
206-44-0	Fluoranthene	2.0	13	4.3	J
129-00-0	Pyrene	0.86	13	2.1	J
56-55-3	Benzo(a)anthracene	0.86	13	1.6	J
218-01-9	Chrysene	0.96	13	1.6	J
205-99-2	Benzo(b)fluoranthene	0.86	13	1.4	J
207-08-9	Benzo(k)fluoranthene	0.66	13	1.3	J
50-32-8	Benzo(a)pyrene	0.58	13	1.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	0.91	J
53-70-3	Dibenzo(a,h)anthracene	0.51	13	ND	U
191-24-2	Benzo(g,h,i)perylene	0.58	13	0.90	J

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-07RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-07RJA66
Analyst: MEW

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	5.8	JB
91-57-6	2-Methylnaphthalene	1.0	13	1.7	J
208-96-8	Acenaphthylene	0.81	13	ND	U
83-32-9	Acenaphthene	0.91	13	0.93	J
86-73-7	Fluorene	0.68	13	2.1	J
85-01-8	Phenanthrene	2.0	13	4.4	J
120-12-7	Anthracene	0.66	13	0.69	J
206-44-0	Fluoranthene	2.0	13	2.4	J
129-00-0	Pyrene	0.86	13	2.8	J
56-55-3	Benzo(a)anthracene	0.86	13	1.4	J
218-01-9	Chrysene	0.96	13	3.2	J
205-99-2	Benzo(b)fluoranthene	0.86	13	2.1	J
207-08-9	Benzo(k)fluoranthene	0.66	13	1.6	J
50-32-8	Benzo(a)pyrene	0.58	13	1.5	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	2.0	J
53-70-3	Dibenzo(a,h)anthracene	0.51	13	ND	U
191-24-2	Benzo(g,h,i)perylene	0.58	13	1.3	J

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SBKLCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051831-BS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051831-BS1JC66
Analyst: 2743

% Moisture: 0 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	9.8	
91-57-6	2-Methylnaphthalene	0.68	8.3	10	
208-96-8	Acenaphthylene	0.53	8.3	11	
83-32-9	Acenaphthene	0.60	8.3	11	
86-73-7	Fluorene	0.45	8.3	9.9	
85-01-8	Phenanthrene	1.3	8.3	11	
120-12-7	Anthracene	0.43	8.3	11	
206-44-0	Fluoranthene	1.3	8.3	14	
129-00-0	Pyrene	0.57	8.3	13	
56-55-3	Benzo(a)anthracene	0.57	8.3	14	
218-01-9	Chrysene	0.63	8.3	13	
205-99-2	Benzo(b)fluoranthene	0.57	8.3	14	
207-08-9	Benzo(k)fluoranthene	0.43	8.3	13	
50-32-8	Benzo(a)pyrene	0.38	8.3	13	
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	16	
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	15	
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	14	

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SDYLCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0060163-BS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0060163-BS1JA66
Analyst: OWS

% Moisture: 0 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	12	
91-57-6	2-Methylnaphthalene	0.68	8.3	12	
208-96-8	Acenaphthylene	0.53	8.3	11	
83-32-9	Acenaphthene	0.60	8.3	12	
86-73-7	Fluorene	0.45	8.3	11	
85-01-8	Phenanthrene	1.3	8.3	12	
120-12-7	Anthracene	0.43	8.3	11	
206-44-0	Fluoranthene	1.3	8.3	14	
129-00-0	Pyrene	0.57	8.3	14	
56-55-3	Benzo(a)anthracene	0.57	8.3	15	
218-01-9	Chrysene	0.63	8.3	15	
205-99-2	Benzo(b)fluoranthene	0.57	8.3	14	
207-08-9	Benzo(k)fluoranthene	0.43	8.3	13	
50-32-8	Benzo(a)pyrene	0.38	8.3	12	
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	14	
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	14	
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	14	

ND = Not Detected
Q = Qualifier

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1MS

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 0051831-MS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 0051831-MS1C66
Analyst: 2743

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	15	
91-57-6	2-Methylnaphthalene	1.0	13	18	
208-96-8	Acenaphthylene	0.81	13	19	
83-32-9	Acenaphthene	0.91	13	17	
86-73-7	Fluorene	0.68	13	19	
85-01-8	Phenanthrene	2.0	13	19	
120-12-7	Anthracene	0.66	13	20	
206-44-0	Fluoranthene	2.0	13	24	
129-00-0	Pyrene	0.86	13	21	
56-55-3	Benzo(a)anthracene	0.86	13	20	
218-01-9	Chrysene	0.96	13	19	
205-99-2	Benzo(b)fluoranthene	0.86	13	19	
207-08-9	Benzo(k)fluoranthene	0.66	13	18	
50-32-8	Benzo(a)pyrene	0.58	13	17	
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	17	
53-70-3	Dibenzo(a,h)anthracene	0.51	13	17	
191-24-2	Benzo(g,h,i)perylene	0.58	13	15	

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1MSD

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 0051831-MSD1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 0051831-MSD1C66
Analyst: 2743

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	15	
91-57-6	2-Methylnaphthalene	1.0	13	18	
208-96-8	Acenaphthylene	0.81	13	19	
83-32-9	Acenaphthene	0.91	13	18	
86-73-7	Fluorene	0.68	13	18	
85-01-8	Phenanthrene	2.0	13	19	
120-12-7	Anthracene	0.66	13	20	
206-44-0	Fluoranthene	2.0	13	25	
129-00-0	Pyrene	0.86	13	22	
56-55-3	Benzo(a)anthracene	0.86	13	21	
218-01-9	Chrysene	0.96	13	19	
205-99-2	Benzo(b)fluoranthene	0.86	13	19	
207-08-9	Benzo(k)fluoranthene	0.66	13	16	
50-32-8	Benzo(a)pyrene	0.58	13	17	
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	15	
53-70-3	Dibenzo(a,h)anthracene	0.51	13	15	
191-24-2	Benzo(g,h,i)perylene	0.58	13	13	

ND = Not Detected
Q = Qualifier

C. Form II

Surrogate spike analysis

- By level (low, medium) -

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLKBK	70	47	78						0
02	SBKLCS	70	45	81						0
03	SS50-0-1MS	121*	51	93						1
04	SS50-0-1MSD	86	51	98						0
05	SS24-0-1	61	51	94						0
06	SB24-3-4	58	60	79						0
07	SB47-14-15	55	48	82						0
08	SS47-0-1	53	47	85						0
09	SS11-0-1	55	47	85						0
10	SB11-11-12	41	34*	87						1
11	SS48-0-1	66	55	84						0
12	SS23-00-01	63	59	81						0
13	SB23-1.5-2	57	46	91						0
14	SB48-7-8	37	30*	79						1
15	SS49-0-1	52	46	90						0
16	SB49-11-12	30*	24*	81						2
17	SS50-0-1	192*	71	102						1
18	SS18-0-1	68	57	85						0
19	SB18-12-13	35	27*	71						1
20	SS25-0-1	48	40*	78						1
21	SB25-3-4	66	54	86						0
22	SS08-0-1	52	45	84						0
23	SB08-6-7	38	30*	75						1
24	SS05-0-1	39	31*	81						1
25	SBLKDY	66	69	100						0
26	SDYLCS	66	64	90						0
27	SB49-11-12RE	55	50	84						0
28	SB11-11-12RE	44	44*	80						1

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SB48-7-8RE	54	48	78						0
02	SB18-12-13RE	52	53	85						0
03	SS25-0-1RX	49	59	83						0
04	SB08-6-7RE	60	58	86						0
05	SS25-0-1RX2	52	60	81						0
06	SS05-0-1RE	59	64	91						0
07	SS50-0-1RE	73	68	121						0
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results
- By level (low, medium) -
Laboratory Control Sample(s)

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix Spike - Sample No.: SS50-0-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	25.25	1.951	14.8	51	40-105
2-Methylnaphthalene	25.25	1.14	17.59	65	45-105
Acenaphthylene	25.25	0	18.84	75	50-105
Acenaphthene	25.25	1.33	17.47	64	45-110
Fluorene	25.25	0.6858	19.44	74	50-110
Phenanthrene	25.25	2.506	19.1	66	50-110
Anthracene	25.25	0.7401	20.08	77	55-105
Fluoranthene	25.25	4.277	24.48	80	55-115
Pyrene	25.25	2.137	20.76	74	45-125
Benzo(a)anthracene	25.25	1.556	20.3	74	50-110
Chrysene	25.25	1.603	18.5	67	55-110
Benzo(b)fluoranthene	25.25	1.388	19.04	70	45-115
Benzo(k)fluoranthene	25.25	1.305	18.24	67	45-125
Benzo(a)pyrene	25.25	1.087	17.29	64	50-110
Indeno(1,2,3-cd)pyrene	25.25	0.905	17.38	65	40-125
Dibenzo(a,h)anthracene	25.25	0	17.3	69	40-125
Benzo(g,h,i)perylene	25.25	0.9017	15.11	56	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix Spike - Sample No.: SS50-0-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	25.25	15.44	53	4	30	40-105
2-Methylnaphthalene	25.25	17.82	66	1	30	45-105
Acenaphthylene	25.25	19.37	77	3	30	50-105
Acenaphthene	25.25	18.26	67	4	30	45-110
Fluorene	25.25	18.44	70	5	30	50-110
Phenanthrene	25.25	19.22	66	1	30	50-110
Anthracene	25.25	19.61	75	2	30	55-105
Fluoranthene	25.25	25	82	2	30	55-115
Pyrene	25.25	22.04	79	6	30	45-125
Benzo(a)anthracene	25.25	21	77	3	30	50-110
Chrysene	25.25	18.83	68	2	30	55-110
Benzo(b)fluoranthene	25.25	19.26	71	1	30	45-115
Benzo(k)fluoranthene	25.25	15.99	58	13	30	45-125
Benzo(a)pyrene	25.25	17.17	64	1	30	50-110
Indeno(1,2,3-cd)pyrene	25.25	15.23	57	13	30	40-125
Dibenzo(a,h)anthracene	25.25	15.39	61	12	30	40-125
Benzo(g,h,i)perylene	25.25	12.88	47	16	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SBKLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67	9.773	59	40-105
2-Methylnaphthalene	16.67	10.24	61	45-105
Acenaphthylene	16.67	10.98	66	50-105
Acenaphthene	16.67	10.59	64	45-110
Fluorene	16.67	9.855	59	50-110
Phenanthrene	16.67	11.22	67	50-110
Anthracene	16.67	11.44	69	55-105
Fluoranthene	16.67	13.84	83	55-115
Pyrene	16.67	13.4	80	45-125
Benzo(a)anthracene	16.67	14.23	85	50-110
Chrysene	16.67	13.48	81	55-110
Benzo(b)fluoranthene	16.67	14.21	85	45-115
Benzo(k)fluoranthene	16.67	13.09	79	45-125
Benzo(a)pyrene	16.67	12.73	76	50-110
Indeno(1,2,3-cd)pyrene	16.67	15.69	94	40-125
Dibenzo(a,h)anthracene	16.67	15.08	90	40-125
Benzo(g,h,i)perylene	16.67	14.42	87	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SDYLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67	12.2	73	40-105
2-Methylnaphthalene	16.67	12.22	73	45-105
Acenaphthylene	16.67	10.77	65	50-105
Acenaphthene	16.67	11.63	70	45-110
Fluorene	16.67	11.27	68	50-110
Phenanthrene	16.67	11.66	70	50-110
Anthracene	16.67	11.15	67	55-105
Fluoranthene	16.67	14	84	55-115
Pyrene	16.67	14.12	85	45-125
Benzo(a)anthracene	16.67	14.68	88	50-110
Chrysene	16.67	14.65	88	55-110
Benzo(b)fluoranthene	16.67	14.02	84	45-115
Benzo(k)fluoranthene	16.67	13.42	81	45-125
Benzo(a)pyrene	16.67	12.23	73	50-110
Indeno(1,2,3-cd)pyrene	16.67	14.44	87	40-125
Dibenzo(a,h)anthracene	16.67	13.65	82	40-125
Benzo(g,h,i)perylene	16.67	14.31	86	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

E. Form IV

Method Blank Results
Form IV and Form I

Method blank summary, OADS
- In chronological order of analysis

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKBK

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID: 0051831-BLK1J2C66 Lab Sample ID: 0051831-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/19/10

Matrix: (soil/water) SOIL Date Analyzed: 05/31/10

Level:(low/med) LOW Time Analyzed: 0254

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBKLCS	0051831-BS1	0051831-BS1J	05/31/10
02	SS50-0-1MS	0051831-MS1	0051831-MS1C	05/31/10
03	SS50-0-1MSD	0051831-MSD1	0051831-MSD1	05/31/10
04	SS24-0-1	1005130-03	1005130-03C6	05/31/10
05	SB24-3-4	1005130-04	1005130-04C6	05/31/10
06	SB47-14-15	1005130-08	1005130-08C6	05/31/10
07	SS47-0-1	1005130-09	1005130-09C6	05/31/10
08	SS11-0-1	1005130-10	1005130-10C6	05/31/10
09	SB11-11-12	1005130-11	1005130-11C6	05/31/10
10	SS48-0-1	1005130-13	1005130-13C6	05/31/10
11	SS23-00-01	1005130-01	1005130-01JC	06/01/10
12	SB23-1.5-2	1005130-02	1005130-02J2	06/01/10
13	SB48-7-8	1005130-12	1005130-12JC	06/01/10
14	SS49-0-1	1005130-05	1005130-05J2	06/01/10
15	SB49-11-12	1005130-06	1005130-06J2	06/01/10
16	SS50-0-1	1005130-07	1005130-07JC	06/01/10
17	SS18-0-1	1005130-14	1005130-14C6	06/01/10
18	SB18-12-13	1005130-15	1005130-15C6	06/01/10
19	SS25-0-1	1005130-16	1005130-16C6	06/01/10
20	SB25-3-4	1005130-17	1005130-17C6	06/01/10
21	SS08-0-1	1005130-18	1005130-18C6	06/01/10
22	SB08-6-7	1005130-19	1005130-19C6	06/01/10
23	SS05-0-1	1005130-20	1005130-20C6	06/01/10
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SBLKBK

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051831-BLK1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051831-BLK1J2C66
Analyst: 2743

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	ND	U
91-57-6	2-Methylnaphthalene	0.68	8.3	ND	U
208-96-8	Acenaphthylene	0.53	8.3	ND	U
83-32-9	Acenaphthene	0.60	8.3	ND	U
86-73-7	Fluorene	0.45	8.3	ND	U
85-01-8	Phenanthrene	1.3	8.3	ND	U
120-12-7	Anthracene	0.43	8.3	ND	U
206-44-0	Fluoranthene	1.3	8.3	ND	U
129-00-0	Pyrene	0.57	8.3	ND	U
56-55-3	Benzo(a)anthracene	0.57	8.3	ND	U
218-01-9	Chrysene	0.63	8.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.57	8.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.43	8.3	ND	U
50-32-8	Benzo(a)pyrene	0.38	8.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKDY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID: 0060163-BLK1JA66 Lab Sample ID: 0060163-BLK1

Instrument ID: 5972HP66 Date Extracted: 06/02/10

Matrix: (soil/water) SOIL Date Analyzed: 06/23/10

Level:(low/med) LOW Time Analyzed: 1230

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SDYLCS	0060163-BS1	0060163-BS1J	06/23/10
02	SB49-11-12RE	1005130-06RE1	1005130-06RE	06/23/10
03	SB11-11-12RE	1005130-11RE1	1005130-11RE	06/23/10
04	SB48-7-8RE	1005130-12RE1	1005130-12RE	06/23/10
05	SB18-12-13RE	1005130-15RE1	1005130-15RJ	06/24/10
06	SS25-0-1RX	1005130-16RE1	1005130-16RJ	06/24/10
07	SB08-6-7RE	1005130-19RE1	1005130-19RJ	06/24/10
08	SS25-0-1RXRE	1005130-16RE2	1005130-16RJ	06/24/10
09	SS05-0-1RE	1005130-20RE1	1005130-20RJ	06/24/10
10	SS50-0-1RE	1005130-07RE1	1005130-07RJ	06/24/10
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SBLKDY

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0060163-BLK1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0060163-BLK1JA66
Analyst: OWS

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000 (uL)
Injection Volume: 2.0 (uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	1.3	J
91-57-6	2-Methylnaphthalene	0.68	8.3	ND	U
208-96-8	Acenaphthylene	0.53	8.3	ND	U
83-32-9	Acenaphthene	0.60	8.3	ND	U
86-73-7	Fluorene	0.45	8.3	ND	U
85-01-8	Phenanthrene	1.3	8.3	ND	U
120-12-7	Anthracene	0.43	8.3	ND	U
206-44-0	Fluoranthene	1.3	8.3	ND	U
129-00-0	Pyrene	0.57	8.3	0.75	J
56-55-3	Benzo(a)anthracene	0.57	8.3	ND	U
218-01-9	Chrysene	0.63	8.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.57	8.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.43	8.3	ND	U
50-32-8	Benzo(a)pyrene	0.38	8.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

F. Form VIII

Internal standard area and retention time data

(VOA and SV only)

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0E31001-CCV1C66 Date Analyzed: 05/31/10

Instrument ID: 5972HP66 Time Analyzed: 0058

		IS1(CRY) AREA	#	RT	#	IS2(PRY) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	204346		19.34		181612		21.96		86207		5.54	
	UPPER LIMIT	408692		19.84		363224		22.46		172414		6.04	
	LOWER LIMIT	102173		18.84		90806		21.46		43103		5.04	
	CLIENT SAMPLE NO.												
01	SBLKBK	139562		19.33		122774		21.96		63419		5.56	
02	SBKLCS	276943		19.33		243264		21.96		117895		5.57	
03	SS50-0-1MS	163415		19.36		116573		22.04		104194		5.56	
04	SS50-0-1MSD	151251		19.36		115867		22.02		96673		5.56	
05	SS24-0-1	143969		19.36		121404		22.00		95153		5.56	
06	SB24-3-4	166761		19.35		133171		21.99		71776		5.57	
07	SB47-14-15	271124		19.35		204113		21.99		121141		5.57	
08	SS47-0-1	246938		19.35		205217		21.99		90528		5.56	
09	SS11-0-1	213048		19.35		163570		21.99		90878		5.57	
10	SB11-11-12	231904		19.35		170306		21.99		103026		5.57	
11	SS48-0-1	189259		19.35		149029		21.99		86633		5.57	
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0E31001-CCV1C66 Date Analyzed: 05/31/10

Instrument ID: 5972HP66 Time Analyzed: 0058

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	310207	7.79	143159	11.21	228757	14.09
	UPPER LIMIT	620414	8.29	286318	11.71	457514	14.59
	LOWER LIMIT	155103	7.29	71579	10.71	114379	13.59
	CLIENT SAMPLE NO.						
01	SBLKBK	223929	7.79	95185	11.20	173178	14.09
02	SBKLCS	453409	7.80	200518	11.20	351178	14.09
03	SS50-0-1MS	392800	7.80	159878	11.22	248275	14.10
04	SS50-0-1MSD	345041	7.80	141901	11.22	234242	14.10
05	SS24-0-1	330580	7.80	129357	11.22	210790	14.10
06	SB24-3-4	244378	7.80	113334	11.22	208011	14.10
07	SB47-14-15	451152	7.80	198225	11.22	353756	14.10
08	SS47-0-1	346220	7.80	155514	11.22	293533	14.11
09	SS11-0-1	330404	7.81	143213	11.23	266324	14.11
10	SB11-11-12	381259	7.80	168179	11.22	304688	14.11
11	SS48-0-1	305710	7.80	135620	11.22	245241	14.10
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F01001-CCV1C66 Date Analyzed: 05/31/10

Instrument ID: 5972HP66 Time Analyzed: 2341

		IS1(CRY) AREA #	IS1(CRY) RT #	IS2(PRY) AREA #	IS2(PRY) RT #	IS3(DCB) AREA #	IS3(DCB) RT #
	12 HOUR STD	130120	19.35	110182	21.98	50825	5.53
	UPPER LIMIT	260240	19.85	220364	22.48	101650	6.03
	LOWER LIMIT	65060	18.85	55091	21.48	25413	5.03
	CLIENT SAMPLE NO.						
01	SS23-00-01	167973	19.36	124031	22.00	68378	5.56
02	SB23-1.5-2	168381	19.36	126938	21.99	69406	5.56
03	SB48-7-8	149903	19.36	106868	21.99	67929	5.56
04	SS49-0-1	165033	19.37	122666	21.99	83032	5.57
05	SB49-11-12	124268	19.36	102979	21.99	50800	5.55
06	SS50-0-1	144072	19.40	95471	22.10	61850	5.56
07	SS18-0-1	161866	19.38	122367	22.03	60527	5.57
08	SB18-12-13	175071	19.38	131477	22.03	75901	5.57
09	SS25-0-1	169249	19.38	131685	22.01	66425	5.57
10	SB25-3-4	175601	19.38	136308	22.02	73327	5.57
11	SS08-0-1	158152	19.38	121892	22.03	63950	5.57
12	SB08-6-7	175185	19.38	130326	22.03	74107	5.56
13	SS05-0-1	156171	19.38	118546	22.01	62227	5.56
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F01001-CCV1C66 Date Analyzed: 05/31/10

Instrument ID: 5972HP66 Time Analyzed: 2341

		IS4 (NPT) AREA #	RT #	IS5 (ANT) AREA #	RT #	IS6 (PHN) AREA #	RT #
	12 HOUR STD	156411	7.79	84594	11.22	166017	14.10
	UPPER LIMIT	312822	8.29	169188	11.72	332034	14.60
	LOWER LIMIT	78205	7.29	42297	10.72	83009	13.60
	CLIENT SAMPLE NO.						
01	SS23-00-01	243919	7.80	117929	11.22	223786	14.10
02	SB23-1.5-2	261284	7.80	114693	11.23	216124	14.11
03	SB48-7-8	242659	7.80	106131	11.23	202074	14.11
04	SS49-0-1	299820	7.80	126506	11.22	228393	14.10
05	SB49-11-12	185859	7.80	84957	11.23	161842	14.11
06	SS50-0-1	244874	7.80	111420	11.23	209924	14.13
07	SS18-0-1	227523	7.81	103172	11.23	207342	14.13
08	SB18-12-13	273889	7.81	119153	11.24	220601	14.13
09	SS25-0-1	244526	7.81	107637	11.23	209469	14.13
10	SB25-3-4	260406	7.81	119498	11.23	223187	14.13
11	SS08-0-1	240960	7.81	108953	11.23	215441	14.13
12	SB08-6-7	273362	7.81	121672	11.23	230754	14.13
13	SS05-0-1	228016	7.81	104591	11.23	208512	14.13
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F23008-CCV2A66 Date Analyzed: 06/23/10

Instrument ID: 5972HP66 Time Analyzed: 1150

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	46843	19.21	41659	21.84	20244	5.45
	UPPER LIMIT	93686	19.71	83318	22.34	40488	5.95
	LOWER LIMIT	23421	18.71	20829	21.34	10122	4.95
	CLIENT SAMPLE NO.						
01	SBLKDY	76116	19.22	73483	21.84	27980	5.46
02	SDYLCS	80231	19.22	76516	21.84	33228	5.47
03	SB49-11-12RE	88752	19.22	82556	21.85	25599	5.47
04	SB11-11-12RE	69847	19.22	65946	21.85	19238	5.47
05	SB48-7-8RE	80863	19.22	75773	21.85	22065	5.47
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F23008-CCV2A66 Date Analyzed: 06/23/10

Instrument ID: 5972HP66 Time Analyzed: 1150

		IS4(NPT) AREA	#	RT	#	IS5(ANT) AREA	#	RT	#	IS6(PHN) AREA	#	RT	#
	12 HOUR STD	61564		7.69		32914		11.11		57563		13.98	
	UPPER LIMIT	123128		8.19		65828		11.61		115126		14.48	
	LOWER LIMIT	30782		7.19		16457		10.61		28781		13.48	
	CLIENT SAMPLE NO.												
01	SBLKDY	88890		7.69		47092		11.12		80358		13.98	
02	SDYLCS	98120		7.69		52824		11.12		92682		13.98	
03	SB49-11-12RE	75685		7.71		42368		11.12		77317		13.98	
04	SB11-11-12RE	61017		7.71		32791		11.12		57887		13.99	
05	SB48-7-8RE	70437		7.71		37732		11.12		67742		13.99	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F24005-CCV1A66 Date Analyzed: 06/24/10

Instrument ID: 5972HP66 Time Analyzed: 1439

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	60962	19.20	58769	21.82	22670	5.45
	UPPER LIMIT	121924	19.70	117538	22.32	45340	5.95
	LOWER LIMIT	30481	18.70	29385	21.32	11335	4.95
	CLIENT SAMPLE NO.						
01	SB18-12-13RE	51630	19.20	50241	21.82	24827	5.47
02	SS25-0-1RX	37152	19.21	39366	21.83	17271	5.47
03	SB08-6-7RE	45525	19.21	45311	21.83	20446	5.47
04	SS25-0-1RXRE	27064*	19.21	28088*	21.83	14976	5.47
05	SS05-0-1RE	47023	19.20	47969	21.83	20710	5.47
06	SS50-0-1RE	74460	19.23	58583	21.87	35588	5.46
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F24005-CCV1A66 Date Analyzed: 06/24/10

Instrument ID: 5972HP66 Time Analyzed: 1439

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	71920	7.69	38303	11.10	68117	13.97
	UPPER LIMIT	143840	8.19	76606	11.60	136234	14.47
	LOWER LIMIT	35960	7.19	19151	10.60	34059	13.47
	CLIENT SAMPLE NO.						
01	SB18-12-13RE	69487	7.69	35077	11.10	58683	13.97
02	SS25-0-1RX	43466	7.69	19973	11.10	33316*	13.98
03	SB08-6-7RE	54649	7.69	27542	11.11	46109	13.98
04	SS25-0-1RXRE	33711*	7.71	14555*	11.12	23328*	13.98
05	SS05-0-1RE	54321	7.69	26095	11.10	43782	13.98
06	SS50-0-1RE	109166	7.69	59292	11.10	114007	13.98
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC/MS by SW-846

Modified For Selected Ion Monitoring (SIM)

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

LAB CODE : LIBRTY

METHOD: 8270C

SDG # : 1005130

A. SDG Narrative

CompuChem
A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005130
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SS23-00-01, SB23-1.5-2, SS24-01-1, SB24-3-4, SS49-0-1, SB49-11-12, SS50-0-1, SB47-14-15, SS47-0-1, SS11-0-1, SB11-11-12, SB48-7-8, SS48-0-1, SS18-0-1, SB18-12-13, SS25-0-1, SB25-3-4, SS08-0-1, SB08-6-7, and SS05-0-1.

The twenty soil samples listed above were received intact, refrigerated between 0.2-1.4°C, in sealed shipping containers, on May 13-14, 2010. The samples were scheduled for the requested analyses of the semivolatile fraction. SW-846, 3rd Edition, Update 3, Sonication extraction (Method 3550B), Method 8270C and Selected Ion Monitoring (SIM) were used to prepare and analyze these samples. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for SDG # 1005130 are included in the sample data sections. Holding time requirements were met for the initial extractions of all of these samples. Surrogate recovery criteria were not met in the analysis of the initial extract of SB49-11-12, SS50-0-1, SB11-11-12, SB48-7-8, SB18-12-13, SS25-0-1, SB08-6-7, and SS05-0-1. The samples were reextracted outside of holding times. The analysis of the second extracts met all quality control criteria for all of the samples listed above except for SB11-11-12. We have reported both analyses of samples listed above. Sample SB11-11-12 was reextracted and reanalyzed and the surrogate again failed recovery criteria. We have attributed the failing surrogate recovery to the particular matrix of the sample. We have reported both analyses of SB11-11-12. The percent moisture values of these soil samples ranged from 4 to 34.

There were multiple polyaromatic hydrocarbons identified above the quantitation limit in one of these samples: SS05-0-1. Please see the manual integration summary for specific information regarding manual integrations in the data files for this work order. The reasons for the manual integrations have been coded with explanations provided in the notice included in the narrative section of the SDG.

In the initial analysis of the second extract of SS25-0-1 the response of the internal standards failed quality control criteria. The sample was reinjected and the internal standards failed response criteria again. We have reported both analyses of the second extract of SS25-0-1.

Mass assignments were verified by the injections of perfluorotributylamine (PFTBA). Overall QC criteria were met for all initial and continuing calibration standards associated with this SDG. All of the surrogates met recovery criteria, except previously discussed, analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples, except previously discussed. The associated method blanks met all quality control criteria. SS50-0-1 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria. The associated Laboratory Control Samples (LCSs) met all accuracy criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Jennifer B. Rebman
Quality Assurance Manager
June 29, 2010

GC and GC/MS Column and Trap Specifications Table

SDG #:	1005130

COLUMNS*

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
√	Restek	clpest	0.32	0.5	30
√	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
√	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS*

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semi-volatiles, pesticides, and Aroclors by the SOM01.2 SOW. Please see the SDG Narratives(s) for the specific fraction(s) relative to this SDG.

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24804

76

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information	Requested Analysis (see TestCode)
Company Name: CH2M HILL	Project Name: CTO-94	
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ	
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT	
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?	
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)	
Sampler's Name: K. ROGERS/RDM	Are high concentrations expected? Y or (N) If yes, which ID(s)? 30	

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem Lab # (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL PEST. 3550/8081A	Chromium VI, ~~Leach~~ 7196A	Metals 6010B/7471A	GRAINSIZE ASTM D422	Total Chromium 6010B	Grain size	Comments
1005130-01	BBG-SS23-00-01-10B	5-10-10	1620	SO	3							X	X	X		X	X	1005166-01	
-02	BBG-SB23-1.5-2-10B	5-10-10	1630	SO	3							X	X	X		X	X	-02	
1005129-01	BBG-SS55-00-01-10B	5-11-10	0740	SO	3							X	X	X	X	X		(X)	-03
-02	BBG-SB55-2.5-3-10B	5-11-10	0750	SO	3							X	X	X	X	X			-04
-03	BBG-SS54-0-1-10B	5-11-10	0840	SO	3							X	X	X	X	X		1005210-18	
-04	BBG-SB54-4-5-10B	5-11-10	0850	SO	3							X	X	X	X	X		1005166-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time:	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grainsize to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24805

77

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 CLEVELAND ST STE	Sampling Location: MCB CAMLEJ
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: REBECCA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N) NA
Sampler's Name: K. ROGERS / RDU	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	(2) SIMPAH 3550B/8270C	TCL PESTICIDES 3550/8081A	CHROMIUM VI (P) 7196A	METALS 6010B/7471A	GRAINSIZE ASTM D422	TOTAL CHROMIUM 6010B		GRAINSIZE	
1005129-05	BBG-SS53-0-1-10B	5.11.10	0950	SO	3							X	X	X	X	X			1005166-06	
-05	BBG-SS53-0-1-10B MS	5.11.10	0950	SO	3							X	X	X	X					
-05	BBG-SS53-0-1-10B SD	5.11.10	0950	SO	3							X	X	X	X					
-06	BBG-SB53-7-8-10B	5.11.10	0955	SO	3							X	X	X	X	X			1005166-07	
1005130-03	BBG-SS24-0-1-10B	5.11.10	1045	SO	3							X	X	X		X	X		1005166-08	
-04	BBG-SB24-3-4-10B	5.11.10	1055	SO	3							X	X	X		X	X		1005166-09	

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments:

Relinquished by:	Date/Time: 5-12-10/ 1300	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? GRAINSIZE to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 1.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24807

78

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ
City / State / Zip: VIRGINIA BEACH VA 23462	Turnaround time: PER CONTRACT
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. ROGERS	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Contractor Lab No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 8270C/3550B	TCL PEST. 3550/8081A	Chromium VI, ## 7196A/3060A	MCTUS 6010B/7471A	GRAINSIZE ASTM D422	TOTAL CHROMIUM (6010B)		Gram size					
1005130-05	BBG-SB49-0-1-10B	5-11-10	1405	SO	3							X	X	X		X	X		1005166-10					
↓ -06	BBG-SB49-11-12-10B	5.12.10	1422	SO	3							X	X	X		X	X						-11	
1005129-07	BBG-SS80-0-1-10B	5.12.10	0755	SO	3							X	X	X	X	X							-12	
↓ -08	BBG-SB80-3-4-10B	5.12.10	0800	SO	3							X	X	X	X	X							-13	
1005130-07	BBG-SS50-0-1-10B	5.11.10	1445	SO	3							X	X	X		X	X		↓				-14	
-07	BBG-SS50-0-1-10B-MS	5.11.10	1445	SO	3							X	X	X		X	X							
↓ -07	BBG-SS50-0-1-10B-SD	5-11-10	1445	SO	3							X	X	X		X	X							

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

SB49-11-12-10B Sample time reads 1420 DB 4/15/10

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: Diane Byrd	Date/Time: 5-13-10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Gram size to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24806

79

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS/RON

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Compu Chem Work Order (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis (Container and Bottle Type): SIM PAH 3550B/8270C	TCL Pest. 3550/8081A	Chromium VI, 7196A	Metals 6010B/7471A	Grain Size ASTM D422	Total Chromium 6010B		Gran size	Matrix
1005129-09	BBG-SB56-0-1-10B	5/11/10	1125	SO	3							X	X	X	X	X			1005166-15	
-10	BBG-SB56-3-4-10B	5-11-10	1130	SO	3			BBG-SB56-3-4-10B				X	X	X	X	X			-16	
-11	BBG-SB58-0-1-10B	5-12-10	1015	SO	3							X	X	X	X	X			-17	
1005138-08	BBG-SB47-11-15-10B	5-12-10	0940	SO	3							X	X	X		X	X		-18	
-09	BBG-SB47-0-1-10B	5-12-10	0910	SO	3							X	X	X		X	X		-19	
-10	BBG-SB11-0-1-10B	5-11-10	1605	SO	3							X	X	X		X	X		-20	
-11	BBG-SB11-11-12-10B	5-11-10	1620	SO	3							X	X	X		X	X		1005209-01	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 5/12/10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Gran size to CTLABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 4.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24770

80

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

2.07

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, Ste 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?:
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Matrix

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem Lab Use Only	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (Share 7)	TCL Pest. (8081A) (2 AL)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B)	Chromium VI (7196A) (1-125ml)	Grain Size (1-8oz.)		Grain size											
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X													
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X				1005209-02								
-13	BBG-SB48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X					-03							
1005129-12	BBG-SB52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X					-04							
-13	BBG-SB57-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X					-05							

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? Y or N If yes, where? Grain size to GT LABS	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

CompuChem
a division of Liberty Analytical Corp.

Residual Chlorine Present? Yes ___ No ___

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of ___

Courier
Airbill No.
Sampling Complete? Y or N

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Client/Reporting Information	Project Information
Company Name: CH2M Hill	Project Name: CTO-94
Address: 5700 Cleveland St., Ste 101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time
Project Contact: Rebekha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Kristin Rogers / RDM	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Compuchem Sample ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Chrom VI (7196A)	Total Chrom (6010B)	Total Metals (6010B)	Grain Size (ASTM D422)	SIM PAH's (8270C)	TCL Pest. (8081A)		Grain size
1005130-14	BBG-SS18-0-1-10B	5-12-10	1505	SO	3							X	X		X	X	X		1005209-06
-15	BBG-SB18-12-13-10B	5-12-10	1520	SO	3							X	X		X	X	X		-07
1005129-14	BBG-SS60-0-1-10B	5-12-10	1555	SO	3							X		X	X	X	X		-08
-15	BBG-SS59-0-1-10B	5-12-10	1640	SO	3							X		X	X	X	X		-09
-16	BBG-SB59-9-10-10B	5-12-10	1655	SO	3							X		X	X	X	X		-10
1005130-16	BBG-SS25-0-1-10B	5-13-10	1105	SO	3							X	X		X	X	X		-11
-17	BBG-SB25-3-4-10B	5-13-10	1110	SO	3							X	X		X	X	X		-12

Lab Use Only	
Sample Unpacked By: Diane Byrd	Cyanide samples checked for sulfide & chlorine? Y or NA
Sample Order Entry By: Kelly Long	625 & Phenol samples checked for chlorine? Y or NA
Samples Received in Good Condition? Y or N	608 samples checked for pH between 5.0-9.0? Y or NA
If no, explain:	

Relinquished by:	Date/Time: 5-13-10 / 1330	Received by: Diane Byrd	Date/Time: 5/14/10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 1.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

81

24776

82

CHAIN OF CUSTODY

Page ____ of ____

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDH

Project Information

Project Name: GO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Sample ID Lab Use	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2oz	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C)	TCL Pest (8081A)	Grain Size (ASTM D422)	Grain size	Analysis Requested
1005132-03	BBG-SS77-0-1-10B	5-13-10	1205	SO	3							X		X	X	X	X	1005209-19	
-04	BBG-SB77-2.5-3.5-10B	5-13-10	1210	SO	3							X		X	X	X	X	container has BBG-SB77-3.5-4.5	
1005130-18	BBG-SS08-0-1-10B	5-13-10	1240	SO	3								X	X	X	X	X	1005210-02	
-19	BBG-SB08-6-7-10B	5-13-10	1300	SO	3								X	X	X	X	X	-03	
1005132-05	BBG-SS79-0-1-10B	5-13-10	1510	SO	3							X	[illegible]	X	X	X	X	-04	
-06	BBG-SB79-11-12-10B	5-13-10	1530	SO	3							X	[illegible]	X	X	X	X	-05	

Sample Unpacked By: Jennifer Doner
Sample Order Entry By: [illegible] Doner
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by: [signature] Date/Time: 5-14-10 1600 Received by: Diane Dysel Date/Time: 5/14/10 1600
Relinquished by: Date/Time: Received by: Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS Custody Seal(s) intact? (Y) or N On Ice (Y) or N Cooler Temp: 3.8 °C

Samples stored 60 days after date report mailed at no extra charge.

JD 5/14/10 client delivered

White & Yellow copy to lab • Pink copy for customer

24775

83

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information		Project Information	
Company Name	CH2M HILL	Project Name	CTO-94
Address	5700 Cleveland St. 101	Sampling Location	MCB Camp Lejeune
City	VA Beach	State VA	Zip 23462
Project Contact	Rebekka Shaw	Turnaround time	
Phone #	757-671-6279	Batch QC or Project Specific? If Specific, which Sample ID?	
Sampler's Name	K Rogers / RDM	Are aqueous samples field filtered for metals? Y or (N)	
		Are high concentrations expected? Y or (N) If yes, which ID(s)?	

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lancaster Lab #	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	TOTAL METALS (6010B) 20	TOTAL CHROMIUM (6010B)	CHROMIUM VI (7196A)	SIM PAH's (8270C) 8	TCL PEST (8081A)	GRAIN SIZE (ASTM D422) 8	Grain size	
1005132-07	BBG-SS83-0-1-10B	5-13-10	1555	SO	3							X		X	X	X	X	1005210-06	
-08	BBG-SB83-6.5-7.5-10B	5-13-10	1605	SO	3							X		X	X	X	X	-07	
-09	BBG-SS62-0-1-10B	5-13-10	1640	SO	3							X		X	X	X	X	-08	
1005130-20	BBG-SS05-0-1-10B	5-14-10	0800	SO	3							X	X	X	X	X	X	-09	
1005134-05	BBG-SB05-7-8-10B	5-14-10	0810	SO	3								X	X	X	X	X	-10	

Lancaster Use Only

Sample Unpacked By: Jennifer Bones
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diana Byrd	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CTLABS	Custody Seal(s) intact? Y or (N)	On Ice? (Y) or N	Cooler Temp: 3.6 °C

Samples stored 30 days after date report mailed at no extra charge.

client delivered

White & Yellow copy to lab • Pink copy for customer

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-01	SS23-00-01	05/10/2010	05/13/2010	05/27/2010	BBG-SS23-00-01-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-01	SS23-00-01	05/10/2010	05/13/2010	06/03/2010	BBG-SS23-00-01-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-02	SB23-1.5-2	05/10/2010	05/13/2010	05/27/2010	BBG-SB23-1.5-2-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-02	SB23-1.5-2	05/10/2010	05/13/2010	06/03/2010	BBG-SB23-1.5-2-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-03	SS24-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS24-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-03	SS24-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS24-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-04	SB24-3-4	05/11/2010	05/13/2010	05/27/2010	BBG-SB24-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-04	SB24-3-4	05/11/2010	05/13/2010	06/03/2010	BBG-SB24-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-05	SS49-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS49-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-05	SS49-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS49-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-06	SB49-11-12	05/11/2010	05/13/2010	05/27/2010	BBG-SB49-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-06	SB49-11-12	05/11/2010	05/13/2010	06/03/2010	BBG-SB49-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-07	SS50-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS50-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-07	SS50-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS50-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-08	SB47-14-15	05/12/2010	05/13/2010	05/27/2010	BBG-SB47-14-15-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-08	SB47-14-15	05/12/2010	05/13/2010	06/03/2010	BBG-SB47-14-15-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-09	SS47-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS47-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-09	SS47-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS47-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-10	SS11-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS11-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-10	SS11-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS11-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-11	SB11-11-12	05/12/2010	05/13/2010	05/27/2010	BBG-SB11-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-11	SB11-11-12	05/12/2010	05/13/2010	06/03/2010	BBG-SB11-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-12	SB48-7-8	05/12/2010	05/13/2010	05/27/2010	BBG-SB48-7-8-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-12	SB48-7-8	05/12/2010	05/13/2010	06/03/2010	BBG-SB48-7-8-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-13	SS48-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS48-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-13	SS48-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS48-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-14	SS18-0-1	05/12/2010	05/14/2010	05/27/2010	BBG-SS18-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-14	SS18-0-1	05/12/2010	05/14/2010	06/03/2010	BBG-SS18-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-15	SB18-12-13	05/12/2010	05/14/2010	05/27/2010	BBG-SB18-12-13-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-15	SB18-12-13	05/12/2010	05/14/2010	06/03/2010	BBG-SB18-12-13-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-16	SS25-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS25-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-16	SS25-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS25-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-17	SB25-3-4	05/12/2010	05/14/2010	05/27/2010	BBG-SB25-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-17	SB25-3-4	05/12/2010	05/14/2010	06/03/2010	BBG-SB25-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-18	SS08-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS08-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-18	SS08-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS08-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-19	SB08-6-7	05/13/2010	05/14/2010	05/27/2010	BBG-SB08-6-7-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-19	SB08-6-7	05/13/2010	05/14/2010	06/03/2010	BBG-SB08-6-7-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-20	SS05-0-1	05/14/2010	05/14/2010	05/27/2010	BBG-SS05-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-20	SS05-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS05-0-1-10B

WORK ORDER

1005130

Printed: 5/28/2010 6:52:04PM

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Received**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/03/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/14/2010 16:00

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 16:33

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005130-07 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A* METALS=TOTAL Cr ONLY*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005130-01 SS23-00-01 [Soil] Sampled 05/10/2010 16:20 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:20	05/13/2010 09:30	
1005130-02 SB23-1.5-2 [Soil] Sampled 05/10/2010 16:30 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:30	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
1005130-03 SS24-0-1 [Soil] Sampled 05/11/2010 10:45 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:45	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005130-04 SB24-3-4 [Soil] Sampled 05/11/2010 10:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
1005130-05 SS49-0-1 [Soil] Sampled 05/11/2010 14:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
1005130-06 SB49-11-12 [Soil] Sampled 05/11/2010 14:22 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:22	05/13/2010 09:30	
1005130-07 SS50-0-1 [Soil] Sampled 05/11/2010 14:45 Eastern				**USE FOR QC**	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:45	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = SVsim- PAH
1005130-08 SB47-14-15 [Soil] Sampled 05/12/2010 09:40 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005130-09 SS47-0-1 [Soil] Sampled 05/12/2010 09:10 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:10	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = SVsim- PAH
1005130-10 SS11-0-1 [Soil] Sampled 05/12/2010 16:05 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:05	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-11 SB11-11-12 [Soil] Sampled 05/12/2010 16:20 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:20	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-12 SB48-7-8 [Soil] Sampled 05/12/2010 11:30 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:30	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
1005130-13 SS48-0-1 [Soil] Sampled 05/12/2010 11:00 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:00	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005130-14 SS18-0-1 [Soil] Sampled 05/12/2010 15:05 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:05	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = SVsim- PAH
1005130-15 SB18-12-13 [Soil] Sampled 05/12/2010 15:20 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:20	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = SVsim- PAH
1005130-16 SS25-0-1 [Soil] Sampled 05/13/2010 11:05 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 11:05	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
1005130-17 SB25-3-4 [Soil] Sampled 05/12/2010 11:10 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:10	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = GC- 8081 DOD
1005130-18 SS08-0-1 [Soil] Sampled 05/13/2010 12:40 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 12:40	05/14/2010 16:00	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Received**

Analysis	Due	TAT	Expires		Comments
1005130-19 SB08-6-7 [Soil] Sampled 05/13/2010 13:00 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 13:00	05/14/2010 16:00	
1005130-20 SS05-0-1 [Soil] Sampled 05/14/2010 08:00 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
Solids, Dry Weight	05/27/2010 16:00	13	11/10/2010 08:00	05/14/2010 16:00	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

WORK ORDER

1005130

Printed: 6/29/2010 6:35:27PM

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/03/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/14/2010 16:00

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 16:33

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005130-07 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A* METALS=TOTAL Cr ONLY*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005130-01 SS23-00-01 [Soil] Sampled 05/10/2010 16:20 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:20	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
6010B METALS	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
1005130-02 SB23-1.5-2 [Soil] Sampled 05/10/2010 16:30 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
6010B METALS	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:30	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = SVsim- PAH

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires	Comments	
1005130-03 SS24-0-1 [Soil] Sampled 05/11/2010 10:45 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B METALS	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:45	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	
1005130-04 SB24-3-4 [Soil] Sampled 05/11/2010 10:55 Eastern					
6010B METALS	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
1005130-05 SS49-0-1 [Soil] Sampled 05/11/2010 14:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
6010B METALS	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
1005130-06 SB49-11-12 [Soil] Sampled 05/11/2010 14:22 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:22	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B METALS	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires	Comments	
1005130-07 SS50-0-1 [Soil] Sampled 05/11/2010 14:45 Eastern				**USE FOR QC**	
6010B METALS	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
1005130-08 SB47-14-15 [Soil] Sampled 05/12/2010 09:40 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	
6010B METALS	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = SVsim- PAH
1005130-09 SS47-0-1 [Soil] Sampled 05/12/2010 09:10 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:10	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
6010B METALS	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-10 SS11-0-1 [Soil] Sampled 05/12/2010 16:05 Eastern					
6010B METALS	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:05	05/13/2010 09:30	

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires		Comments
1005130-11 SB11-11-12 [Soil] Sampled 05/12/2010 16:20 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:20	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
6010B METALS	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-12 SB48-7-8 [Soil] Sampled 05/12/2010 11:30 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:30	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = SVsim- PAH
6010B METALS	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
1005130-13 SS48-0-1 [Soil] Sampled 05/12/2010 11:00 Eastern					
6010B METALS	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:00	05/13/2010 09:30	
1005130-14 SS18-0-1 [Soil] Sampled 05/12/2010 15:05 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
6010B METALS	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:05	05/14/2010 09:20	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires		Comments
1005130-15 SB18-12-13 [Soil] Sampled 05/12/2010 15:20 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:20	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = GC- 8081 DOD
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
6010B METALS	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
1005130-16 SS25-0-1 [Soil] Sampled 05/13/2010 11:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 11:05	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = SVsim- PAH
6010B METALS	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = GC- 8081 DOD
1005130-17 SB25-3-4 [Soil] Sampled 05/12/2010 11:10 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:10	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
6010B METALS	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = GC- 8081 DOD
1005130-18 SS08-0-1 [Soil] Sampled 05/13/2010 12:40 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = GC- 8081 DOD
6010B METALS	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 12:40	05/14/2010 16:00	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires	Comments	
1005130-19 SB08-6-7 [Soil] Sampled 05/13/2010 13:00 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 13:00	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = GC- 8081 DOD
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
6010B METALS	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
1005130-20 SS05-0-1 [Soil] Sampled 05/14/2010 08:00 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
Solids, Dry Weight	05/27/2010 16:00	13	11/10/2010 08:00	05/14/2010 16:00	
GC-8081A/PEST	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
6010B METALS	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

DEPT: EXTR 5-19-2 **DATE:** 5-19-10

BATCH: 0051831

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0051831-BLK1	SBLKBK		
2	0051831-BS1	SBKLCS		
3	0051831-MS1	SS50-0-1MS		
4	0051831-MSD1	SS50-0-1MSD		
5	1005130-01	SS23-00-01		
6	1005130-02	SB23-1.5-2		
7	1005130-03	SS24-0-1		
8	1005130-04	SB24-3-4		
9	1005130-05	SS49-0-1		
10	1005130-06	SB49-11-12		
11	1005130-07	SS50-0-1		
12	1005130-08	SB47-14-15		
13	1005130-09	SS47-0-1		
14	1005130-10	SS11-0-1		
15	1005130-11	SB11-11-12		
16	1005130-12	SB48-7-8		
17	1005130-13	SS48-0-1		
18	1005130-14	SS18-0-1		
19	1005130-15	SB18-12-13		
20	1005130-16	SS25-0-1		
21	1005130-17	SB25-3-4		
22	1005130-18	SS08-0-1		
23	1005130-19	SB08-6-7		
24	1005130-20	SS05-0-1		
25				
26				
27				
28				

RELINQUISHED BY	DATE/TIME		REC. BY	REASON
B. Patton	5-19-10	1725	G.C. Ref. #3	Storage
GC/MS R3	5-28-10	1000	ars	Analysis
ars	5-28-10	1500	GC/MS R3	Storage
GC/MS R3	5-29-10	1200	ars	Analysis
ars	5-29-10	1600	GC/MS R3	Storage
GCMS#3	5/31	0200	mw	analysis
mw	5/31	0600	GCMS#3	Storage

EXTRACT COC

DEPT: EXTR 6-2-3 DATE: 6-2-10

BATCH: OD60163

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0060163-BLK1	SBLKDY		
2	0060163-BS1	SDYLCS		
3	0060163-MS1	SS50-0-1MS		
4	0060163-MSD1	SS50-0-1MSD		
5	1005130-05RE1	SS49-0-1		
6	1005130-06RE1	SB49-11-12		
7	1005130-07RE1	SS50-0-1		
8	1005130-11RE1	SB11-11-12		
9	1005130-12RE1	SB48-7-8		
10	1005130-15RE1	SB18-12-13		
11	1005130-16RE1	SS25-0-1		
12	1005130-19RE1	SB08-6-7		
13	1005130-20RE1	SS05-0-1		
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				

	RELINQUISHED BY	DATE/TIME		REC. BY	REASON
	[illegible]	6-2-10/6:19pm		GC Ref #3	Storage
	GCMS#3	6/21/10	1200	MW	analysis
	MW	6/21/10	0200	GCMS#3	storage
	GCMS R3	6-23-10	1000	CW	Analysis
	CW	6-23-10	1500	GCMS R3	Storage
	GCMS#3	6/24/10	1300	MW	analysis
	MW	6/24/10	1700	GCMS#3	Storage

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE : LIBRTY

METHOD: 8270C

SDG # : 1005130

1. QC Summary

a. Surrogate Percent Recovery Summary (Form II SV)

b. Spike Summary - MS / MSD / LCS
(Form III SV)

c. Method Blank Summary (Form IV SV)

d. Internal Standard Area and RT Summary
(Form VIII SV)

a. Surrogate Percent Recovery Summary

(Form II SV)

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLKBK	70	47	78						0
02	SBKLCS	70	45	81						0
03	SS50-0-1MS	121*	51	93						1
04	SS50-0-1MSD	86	51	98						0
05	SS24-0-1	61	51	94						0
06	SB24-3-4	58	60	79						0
07	SB47-14-15	55	48	82						0
08	SS47-0-1	53	47	85						0
09	SS11-0-1	55	47	85						0
10	SB11-11-12	41	34*	87						1
11	SS48-0-1	66	55	84						0
12	SS23-00-01	63	59	81						0
13	SB23-1.5-2	57	46	91						0
14	SB48-7-8	37	30*	79						1
15	SS49-0-1	52	46	90						0
16	SB49-11-12	30*	24*	81						2
17	SS50-0-1	192*	71	102						1
18	SS18-0-1	68	57	85						0
19	SB18-12-13	35	27*	71						1
20	SS25-0-1	48	40*	78						1
21	SB25-3-4	66	54	86						0
22	SS08-0-1	52	45	84						0
23	SB08-6-7	38	30*	75						1
24	SS05-0-1	39	31*	81						1
25	SBLKDY	66	69	100						0
26	SDYLCS	66	64	90						0
27	SB49-11-12RE	55	50	84						0
28	SB11-11-12RE	44	44*	80						1

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SB48-7-8RE	54	48	78						0
02	SB18-12-13RE	52	53	85						0
03	SS25-0-1RX	49	59	83						0
04	SB08-6-7RE	60	58	86						0
05	SS25-0-1RX2	52	60	81						0
06	SS05-0-1RE	59	64	91						0
07	SS50-0-1RE	73	68	121						0
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

b. Spike Summary - MS / MSD / LCS
(Form III SV)

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix Spike - Sample No.: SS50-0-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	25.25	1.951	14.8	51	40-105
2-Methylnaphthalene	25.25	1.14	17.59	65	45-105
Acenaphthylene	25.25	0	18.84	75	50-105
Acenaphthene	25.25	1.33	17.47	64	45-110
Fluorene	25.25	0.6858	19.44	74	50-110
Phenanthrene	25.25	2.506	19.1	66	50-110
Anthracene	25.25	0.7401	20.08	77	55-105
Fluoranthene	25.25	4.277	24.48	80	55-115
Pyrene	25.25	2.137	20.76	74	45-125
Benzo(a)anthracene	25.25	1.556	20.3	74	50-110
Chrysene	25.25	1.603	18.5	67	55-110
Benzo(b)fluoranthene	25.25	1.388	19.04	70	45-115
Benzo(k)fluoranthene	25.25	1.305	18.24	67	45-125
Benzo(a)pyrene	25.25	1.087	17.29	64	50-110
Indeno(1,2,3-cd)pyrene	25.25	0.905	17.38	65	40-125
Dibenzo(a,h)anthracene	25.25	0	17.3	69	40-125
Benzo(g,h,i)perylene	25.25	0.9017	15.11	56	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix Spike - Sample No.: SS50-0-1 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	25.25	15.44	53	4	30	40-105
2-Methylnaphthalene	25.25	17.82	66	1	30	45-105
Acenaphthylene	25.25	19.37	77	3	30	50-105
Acenaphthene	25.25	18.26	67	4	30	45-110
Fluorene	25.25	18.44	70	5	30	50-110
Phenanthrene	25.25	19.22	66	1	30	50-110
Anthracene	25.25	19.61	75	2	30	55-105
Fluoranthene	25.25	25	82	2	30	55-115
Pyrene	25.25	22.04	79	6	30	45-125
Benzo(a)anthracene	25.25	21	77	3	30	50-110
Chrysene	25.25	18.83	68	2	30	55-110
Benzo(b)fluoranthene	25.25	19.26	71	1	30	45-115
Benzo(k)fluoranthene	25.25	15.99	58	13	30	45-125
Benzo(a)pyrene	25.25	17.17	64	1	30	50-110
Indeno(1,2,3-cd)pyrene	25.25	15.23	57	13	30	40-125
Dibenzo(a,h)anthracene	25.25	15.39	61	12	30	40-125
Benzo(g,h,i)perylene	25.25	12.88	47	16	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SBKLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67	9.773	59	40-105
2-Methylnaphthalene	16.67	10.24	61	45-105
Acenaphthylene	16.67	10.98	66	50-105
Acenaphthene	16.67	10.59	64	45-110
Fluorene	16.67	9.855	59	50-110
Phenanthrene	16.67	11.22	67	50-110
Anthracene	16.67	11.44	69	55-105
Fluoranthene	16.67	13.84	83	55-115
Pyrene	16.67	13.4	80	45-125
Benzo(a)anthracene	16.67	14.23	85	50-110
Chrysene	16.67	13.48	81	55-110
Benzo(b)fluoranthene	16.67	14.21	85	45-115
Benzo(k)fluoranthene	16.67	13.09	79	45-125
Benzo(a)pyrene	16.67	12.73	76	50-110
Indeno(1,2,3-cd)pyrene	16.67	15.69	94	40-125
Dibenzo(a,h)anthracene	16.67	15.08	90	40-125
Benzo(g,h,i)perylene	16.67	14.42	87	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SDYLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67	12.2	73	40-105
2-Methylnaphthalene	16.67	12.22	73	45-105
Acenaphthylene	16.67	10.77	65	50-105
Acenaphthene	16.67	11.63	70	45-110
Fluorene	16.67	11.27	68	50-110
Phenanthrene	16.67	11.66	70	50-110
Anthracene	16.67	11.15	67	55-105
Fluoranthene	16.67	14	84	55-115
Pyrene	16.67	14.12	85	45-125
Benzo(a)anthracene	16.67	14.68	88	50-110
Chrysene	16.67	14.65	88	55-110
Benzo(b)fluoranthene	16.67	14.02	84	45-115
Benzo(k)fluoranthene	16.67	13.42	81	45-125
Benzo(a)pyrene	16.67	12.23	73	50-110
Indeno(1,2,3-cd)pyrene	16.67	14.44	87	40-125
Dibenzo(a,h)anthracene	16.67	13.65	82	40-125
Benzo(g,h,i)perylene	16.67	14.31	86	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 17 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV SV)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKBK

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID: 0051831-BLK1J2C66 Lab Sample ID: 0051831-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/19/10

Matrix: (soil/water) SOIL Date Analyzed: 05/31/10

Level:(low/med) LOW Time Analyzed: 0254

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBKLCS	0051831-BS1	0051831-BS1J	05/31/10
02	SS50-0-1MS	0051831-MS1	0051831-MS1C	05/31/10
03	SS50-0-1MSD	0051831-MSD1	0051831-MSD1	05/31/10
04	SS24-0-1	1005130-03	1005130-03C6	05/31/10
05	SB24-3-4	1005130-04	1005130-04C6	05/31/10
06	SB47-14-15	1005130-08	1005130-08C6	05/31/10
07	SS47-0-1	1005130-09	1005130-09C6	05/31/10
08	SS11-0-1	1005130-10	1005130-10C6	05/31/10
09	SB11-11-12	1005130-11	1005130-11C6	05/31/10
10	SS48-0-1	1005130-13	1005130-13C6	05/31/10
11	SS23-00-01	1005130-01	1005130-01JC	06/01/10
12	SB23-1.5-2	1005130-02	1005130-02J2	06/01/10
13	SB48-7-8	1005130-12	1005130-12JC	06/01/10
14	SS49-0-1	1005130-05	1005130-05J2	06/01/10
15	SB49-11-12	1005130-06	1005130-06J2	06/01/10
16	SS50-0-1	1005130-07	1005130-07JC	06/01/10
17	SS18-0-1	1005130-14	1005130-14C6	06/01/10
18	SB18-12-13	1005130-15	1005130-15C6	06/01/10
19	SS25-0-1	1005130-16	1005130-16C6	06/01/10
20	SB25-3-4	1005130-17	1005130-17C6	06/01/10
21	SS08-0-1	1005130-18	1005130-18C6	06/01/10
22	SB08-6-7	1005130-19	1005130-19C6	06/01/10
23	SS05-0-1	1005130-20	1005130-20C6	06/01/10
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKDY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID: 0060163-BLK1JA66 Lab Sample ID: 0060163-BLK1

Instrument ID: 5972HP66 Date Extracted: 06/02/10

Matrix: (soil/water) SOIL Date Analyzed: 06/23/10

Level:(low/med) LOW Time Analyzed: 1230

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SDYLCS	0060163-BS1	0060163-BS1J	06/23/10
02	SB49-11-12RE	1005130-06RE1	1005130-06RE	06/23/10
03	SB11-11-12RE	1005130-11RE1	1005130-11RE	06/23/10
04	SB48-7-8RE	1005130-12RE1	1005130-12RE	06/23/10
05	SB18-12-13RE	1005130-15RE1	1005130-15RJ	06/24/10
06	SS25-0-1RX	1005130-16RE1	1005130-16RJ	06/24/10
07	SB08-6-7RE	1005130-19RE1	1005130-19RJ	06/24/10
08	SS25-0-1RXRE	1005130-16RE2	1005130-16RJ	06/24/10
09	SS05-0-1RE	1005130-20RE1	1005130-20RJ	06/24/10
10	SS50-0-1RE	1005130-07RE1	1005130-07RJ	06/24/10
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

d. Internal Standard Area and RT Summary (Form VIII SV)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0E31001-CCV1C66 Date Analyzed: 05/31/10

Instrument ID: 5972HP66 Time Analyzed: 0058

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	204346	19.34	181612	21.96	86207	5.54
	UPPER LIMIT	408692	19.84	363224	22.46	172414	6.04
	LOWER LIMIT	102173	18.84	90806	21.46	43103	5.04
	CLIENT SAMPLE NO.						
01	SBLKBK	139562	19.33	122774	21.96	63419	5.56
02	SBKLCS	276943	19.33	243264	21.96	117895	5.57
03	SS50-0-1MS	163415	19.36	116573	22.04	104194	5.56
04	SS50-0-1MSD	151251	19.36	115867	22.02	96673	5.56
05	SS24-0-1	143969	19.36	121404	22.00	95153	5.56
06	SB24-3-4	166761	19.35	133171	21.99	71776	5.57
07	SB47-14-15	271124	19.35	204113	21.99	121141	5.57
08	SS47-0-1	246938	19.35	205217	21.99	90528	5.56
09	SS11-0-1	213048	19.35	163570	21.99	90878	5.57
10	SB11-11-12	231904	19.35	170306	21.99	103026	5.57
11	SS48-0-1	189259	19.35	149029	21.99	86633	5.57
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0E31001-CCV1C66 Date Analyzed: 05/31/10

Instrument ID: 5972HP66 Time Analyzed: 0058

		IS4 (NPT) AREA	#	RT	#	IS5 (ANT) AREA	#	RT	#	IS6 (PHN) AREA	#	RT	#
	12 HOUR STD	310207		7.79		143159		11.21		228757		14.09	
	UPPER LIMIT	620414		8.29		286318		11.71		457514		14.59	
	LOWER LIMIT	155103		7.29		71579		10.71		114379		13.59	
	CLIENT SAMPLE NO.												
01	SBLKBK	223929		7.79		95185		11.20		173178		14.09	
02	SBKLCS	453409		7.80		200518		11.20		351178		14.09	
03	SS50-0-1MS	392800		7.80		159878		11.22		248275		14.10	
04	SS50-0-1MSD	345041		7.80		141901		11.22		234242		14.10	
05	SS24-0-1	330580		7.80		129357		11.22		210790		14.10	
06	SB24-3-4	244378		7.80		113334		11.22		208011		14.10	
07	SB47-14-15	451152		7.80		198225		11.22		353756		14.10	
08	SS47-0-1	346220		7.80		155514		11.22		293533		14.11	
09	SS11-0-1	330404		7.81		143213		11.23		266324		14.11	
10	SB11-11-12	381259		7.80		168179		11.22		304688		14.11	
11	SS48-0-1	305710		7.80		135620		11.22		245241		14.10	
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F01001-CCV1C66 Date Analyzed: 05/31/10

Instrument ID: 5972HP66 Time Analyzed: 2341

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	130120	19.35	110182	21.98	50825	5.53
	UPPER LIMIT	260240	19.85	220364	22.48	101650	6.03
	LOWER LIMIT	65060	18.85	55091	21.48	25413	5.03
	CLIENT SAMPLE NO.						
01	SS23-00-01	167973	19.36	124031	22.00	68378	5.56
02	SB23-1.5-2	168381	19.36	126938	21.99	69406	5.56
03	SB48-7-8	149903	19.36	106868	21.99	67929	5.56
04	SS49-0-1	165033	19.37	122666	21.99	83032	5.57
05	SB49-11-12	124268	19.36	102979	21.99	50800	5.55
06	SS50-0-1	144072	19.40	95471	22.10	61850	5.56
07	SS18-0-1	161866	19.38	122367	22.03	60527	5.57
08	SB18-12-13	175071	19.38	131477	22.03	75901	5.57
09	SS25-0-1	169249	19.38	131685	22.01	66425	5.57
10	SB25-3-4	175601	19.38	136308	22.02	73327	5.57
11	SS08-0-1	158152	19.38	121892	22.03	63950	5.57
12	SB08-6-7	175185	19.38	130326	22.03	74107	5.56
13	SS05-0-1	156171	19.38	118546	22.01	62227	5.56
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F01001-CCV1C66 Date Analyzed: 05/31/10

Instrument ID: 5972HP66 Time Analyzed: 2341

		IS4 (NPT) AREA #	RT #	IS5 (ANT) AREA #	RT #	IS6 (PHN) AREA #	RT #
	12 HOUR STD	156411	7.79	84594	11.22	166017	14.10
	UPPER LIMIT	312822	8.29	169188	11.72	332034	14.60
	LOWER LIMIT	78205	7.29	42297	10.72	83009	13.60
	CLIENT SAMPLE NO.						
01	SS23-00-01	243919	7.80	117929	11.22	223786	14.10
02	SB23-1.5-2	261284	7.80	114693	11.23	216124	14.11
03	SB48-7-8	242659	7.80	106131	11.23	202074	14.11
04	SS49-0-1	299820	7.80	126506	11.22	228393	14.10
05	SB49-11-12	185859	7.80	84957	11.23	161842	14.11
06	SS50-0-1	244874	7.80	111420	11.23	209924	14.13
07	SS18-0-1	227523	7.81	103172	11.23	207342	14.13
08	SB18-12-13	273889	7.81	119153	11.24	220601	14.13
09	SS25-0-1	244526	7.81	107637	11.23	209469	14.13
10	SB25-3-4	260406	7.81	119498	11.23	223187	14.13
11	SS08-0-1	240960	7.81	108953	11.23	215441	14.13
12	SB08-6-7	273362	7.81	121672	11.23	230754	14.13
13	SS05-0-1	228016	7.81	104591	11.23	208512	14.13
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F23008-CCV2A66 Date Analyzed: 06/23/10

Instrument ID: 5972HP66 Time Analyzed: 1150

		IS1(CRY) AREA	#	RT	#	IS2(PRY) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	46843		19.21		41659		21.84		20244		5.45	
	UPPER LIMIT	93686		19.71		83318		22.34		40488		5.95	
	LOWER LIMIT	23421		18.71		20829		21.34		10122		4.95	
	CLIENT SAMPLE NO.												
01	SBLKDY	76116		19.22		73483		21.84		27980		5.46	
02	SDYLCS	80231		19.22		76516		21.84		33228		5.47	
03	SB49-11-12RE	88752		19.22		82556		21.85		25599		5.47	
04	SB11-11-12RE	69847		19.22		65946		21.85		19238		5.47	
05	SB48-7-8RE	80863		19.22		75773		21.85		22065		5.47	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F23008-CCV2A66 Date Analyzed: 06/23/10

Instrument ID: 5972HP66 Time Analyzed: 1150

		IS4(NPT) AREA	#	RT	#	IS5(ANT) AREA	#	RT	#	IS6(PHN) AREA	#	RT	#
	12 HOUR STD	61564		7.69		32914		11.11		57563		13.98	
	UPPER LIMIT	123128		8.19		65828		11.61		115126		14.48	
	LOWER LIMIT	30782		7.19		16457		10.61		28781		13.48	
	CLIENT SAMPLE NO.												
01	SBLKDY	88890		7.69		47092		11.12		80358		13.98	
02	SDYLCS	98120		7.69		52824		11.12		92682		13.98	
03	SB49-11-12RE	75685		7.71		42368		11.12		77317		13.98	
04	SB11-11-12RE	61017		7.71		32791		11.12		57887		13.99	
05	SB48-7-8RE	70437		7.71		37732		11.12		67742		13.99	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F24005-CCV1A66 Date Analyzed: 06/24/10

Instrument ID: 5972HP66 Time Analyzed: 1439

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	60962	19.20	58769	21.82	22670	5.45
	UPPER LIMIT	121924	19.70	117538	22.32	45340	5.95
	LOWER LIMIT	30481	18.70	29385	21.32	11335	4.95
	CLIENT SAMPLE NO.						
01	SB18-12-13RE	51630	19.20	50241	21.82	24827	5.47
02	SS25-0-1RX	37152	19.21	39366	21.83	17271	5.47
03	SB08-6-7RE	45525	19.21	45311	21.83	20446	5.47
04	SS25-0-1RXRE	27064*	19.21	28088*	21.83	14976	5.47
05	SS05-0-1RE	47023	19.20	47969	21.83	20710	5.47
06	SS50-0-1RE	74460	19.23	58583	21.87	35588	5.46
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Lab File ID (Standard): 0F24005-CCV1A66 Date Analyzed: 06/24/10

Instrument ID: 5972HP66 Time Analyzed: 1439

		IS4(NPT) AREA	#	RT	#	IS5(ANT) AREA	#	RT	#	IS6(PHN) AREA	#	RT	#
	12 HOUR STD	71920		7.69		38303		11.10		68117		13.97	
	UPPER LIMIT	143840		8.19		76606		11.60		136234		14.47	
	LOWER LIMIT	35960		7.19		19151		10.60		34059		13.47	
	CLIENT SAMPLE NO.												
01	SB18-12-13RE	69487		7.69		35077		11.10		58683		13.97	
02	SS25-0-1RX	43466		7.69		19973		11.10		33316	*	13.98	
03	SB08-6-7RE	54649		7.69		27542		11.11		46109		13.98	
04	SS25-0-1RXRE	33711	*	7.71		14555	*	11.12		23328	*	13.98	
05	SS05-0-1RE	54321		7.69		26095		11.10		43782		13.98	
06	SS50-0-1RE	109166		7.69		59292		11.10		114007		13.98	
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I SV), followed by the raw data for semivolatile samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results (Form I SV)

Tabulated results (identification and quantitation) shall be included.

b. Chromatograms

Include for each sample or sample extract, including dilutions and reanalyses. The chromatogram shall contain the following header information: Client Sample ID number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.

c. Quantitation Report showing calculations for target analytes

- Include a printout of the Enhanced Ion Current Profile (EICP) for all manual changes to the compounds, internal standard, and/or surrogate compound.

d. Copies of raw spectra and copies of background-subtracted mass spectra of target analytes identified in the sample.

- The spectra shall include the following information: Client Sample ID number, Lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB08-6-7

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-19
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-19C66
Analyst: 2743

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

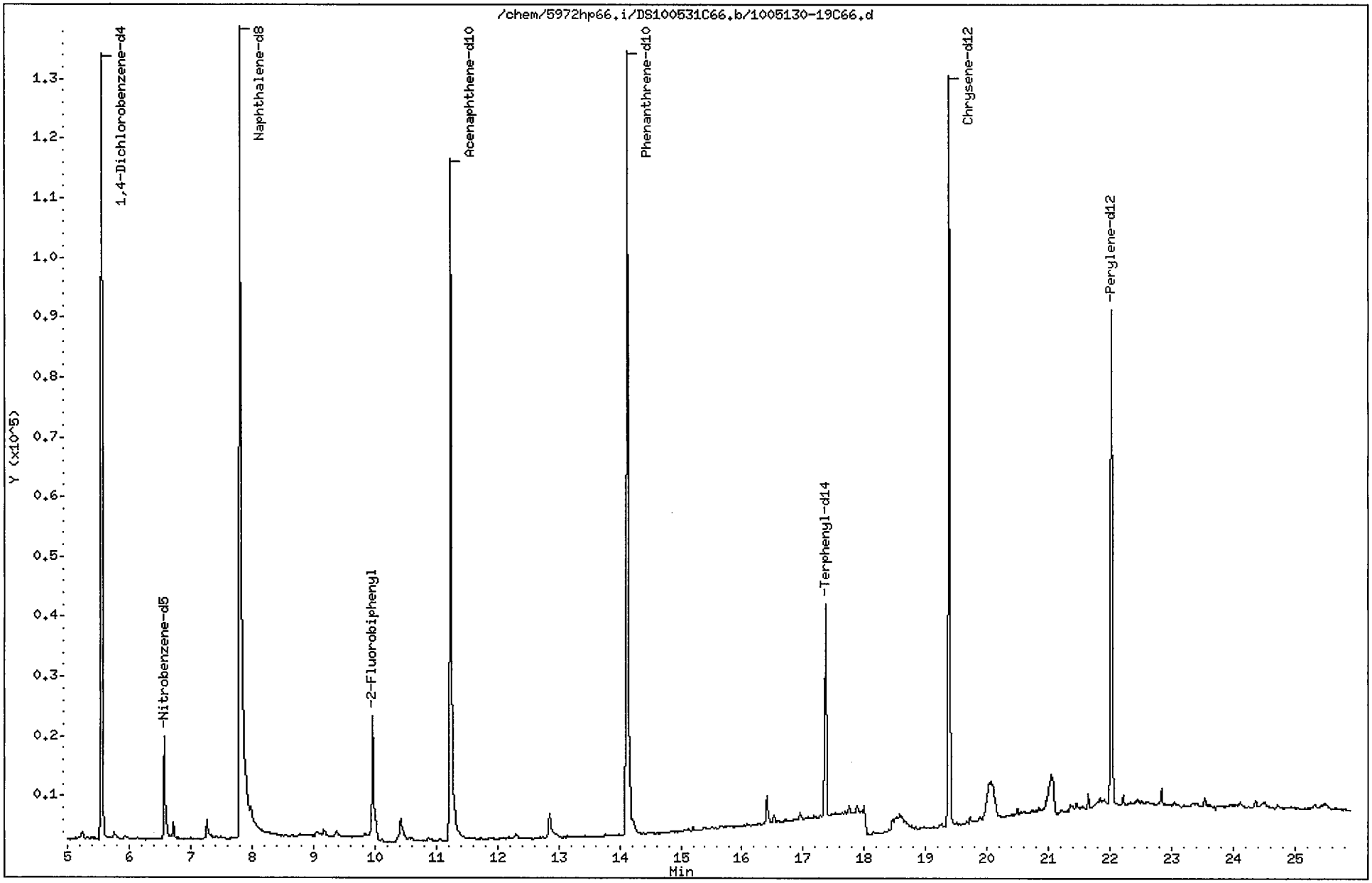
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	ND	U
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-19C66.d
Date : 01-JUN-2010 09:29
Client ID: SB08-6-7
Sample Info: 1005130-19;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-19C66.d
Report Date: 24-Jun-2010 12:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-19C66.d
Lab Smp Id: 1005130-19 Client Smp ID: SB08-6-7
Inj Date : 01-JUN-2010 09:29
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-19:2743
Misc Info : SB08-6-7
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.557	5.535	(1.000)	74107	2.00000		(a)
* 2 Naphthalene-d8	136	7.812	7.790	(1.000)	273362	2.00000		(a)
* 3 Acenaphthene-d10	164	11.231	11.218	(1.000)	121672	2.00000		(a)
* 4 Phenanthrene-d10	188	14.126	14.101	(1.000)	230754	2.00000		(a)
* 5 Chrysene-d12	240	19.380	19.353	(1.000)	175185	2.00000		(a)
* 6 Perylene-d12	264	22.025	21.983	(1.000)	130326	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.574	6.552	(0.841)	22988	0.37792	7.6	
$ 10 2-Fluorobiphenyl	172	9.963	9.954	(0.887)	38491	0.30316	6.1	(R)
$ 12 Terphenyl-d14	244	17.360	17.347	(0.896)	48033	0.75462	15	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-19C66.d
Report Date: 24-Jun-2010 12:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB08-6-7RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-19RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-19RJA66
Analyst: MEW

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

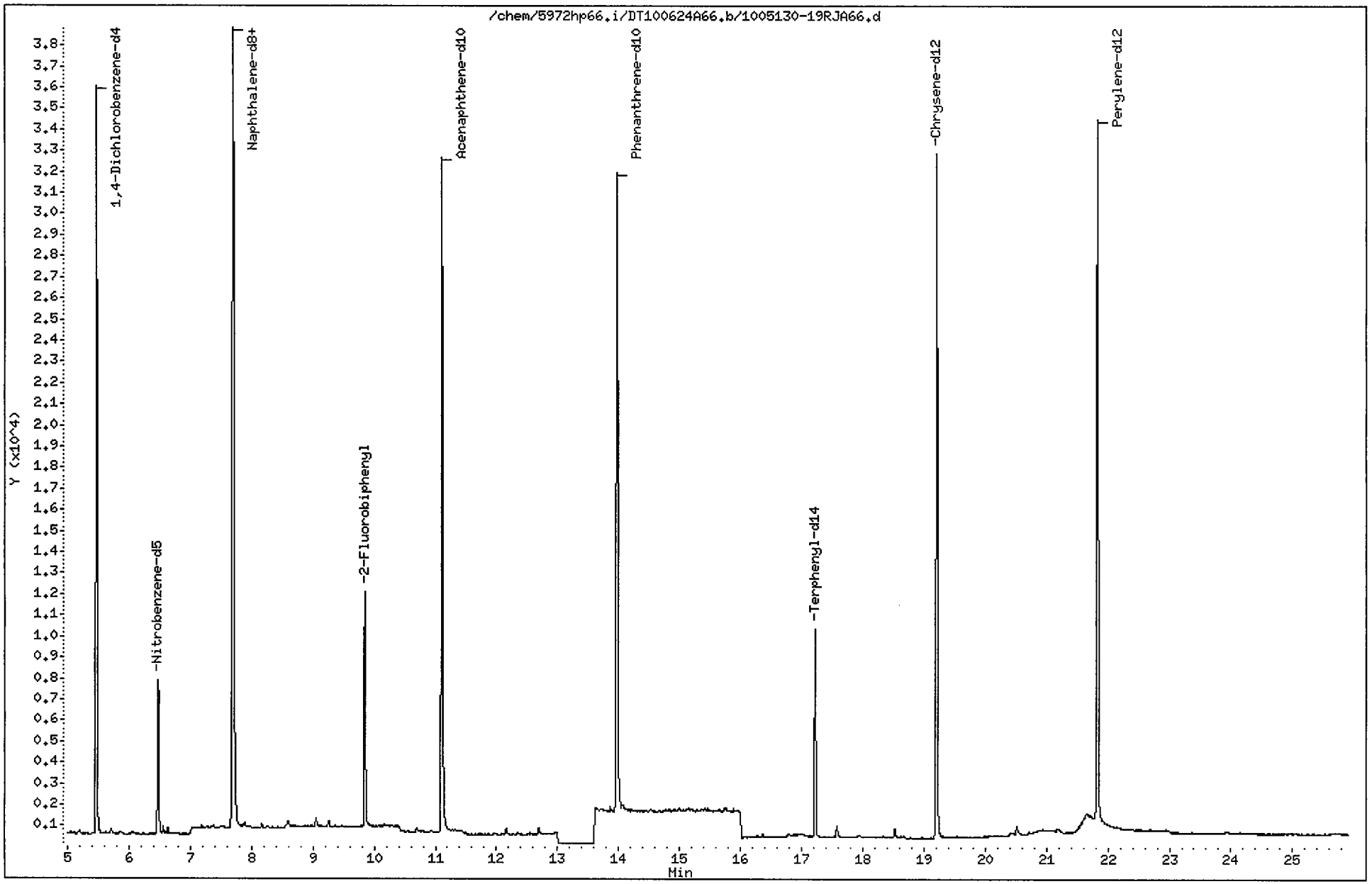
Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	1.4	JB
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-19RJA66.d
Date : 24-JUN-2010 16:23
Client ID: SB08-6-7RE
Instrument: 5972hp66.i
Sample Info: 1005130-19RE1:MEW
Volume Injected (uL): 2.0
Operator: MEW
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100624A66.b/1005130-19RJA66.d
Report Date: 25-Jun-2010 11:10

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100624A66.b/1005130-19RJA66.d
Lab Smp Id: 1005130-19RE1 Client Smp ID: SB08-6-7RE
Inj Date : 24-JUN-2010 16:23
Operator : MEW Inst ID: 5972hp66.i
Smp Info : 1005130-19RE1:MEW
Misc Info : SB08-6-7RE
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100624A66.b/SIM_8270Cv3DOD.m
Meth Date : 25-Jun-2010 10:58 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.471	5.451	(1.000)	20446	2.00000		(a)
* 2 Naphthalene-d8	136	7.694	7.694	(1.000)	54649	2.00000		(a)
* 3 Acenaphthene-d10	164	11.106	11.104	(1.000)	27542	2.00000		(a)
* 4 Phenanthrene-d10	188	13.979	13.968	(1.000)	46109	2.00000		(a)
* 5 Chrysene-d12	240	19.208	19.204	(1.000)	45525	2.00000		(a)
* 6 Perylene-d12	264	21.828	21.824	(1.000)	45311	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.477	6.461	(0.842)	7970	0.59512	12	
$ 10 2-Fluorobiphenyl	172	9.851	9.846	(0.887)	12752	0.58477	12	
$ 12 Terphenyl-d14	244	17.222	17.217	(0.897)	12109	0.85527	17	
13 Naphthalene	128	7.729	7.718	(1.004)	2158	0.06764	1.4	(a)
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-19RJA66.d
Report Date: 25-Jun-2010 11:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-19RJA66.d

Date : 24-JUN-2010 16:23

Client ID: SB08-6-7RE

Instrument: 5972hp66.i

Sample Info: 1005130-19RE1:MEW

Volume Injected (uL): 2.0

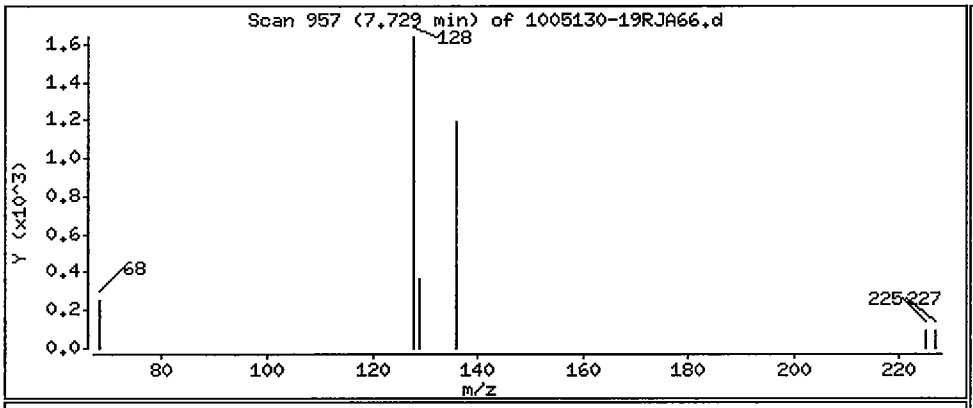
Operator: MEW

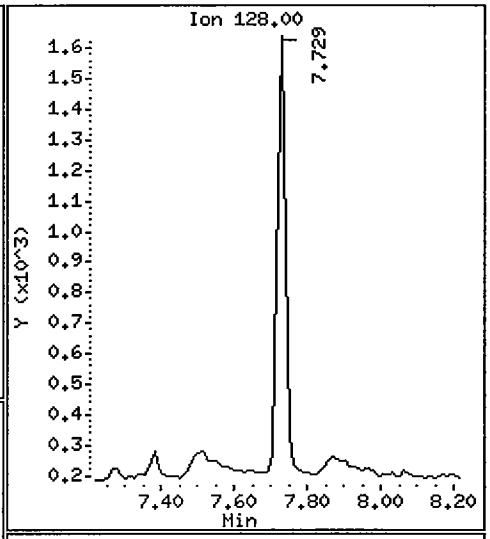
Column phase: Rtx-5MS

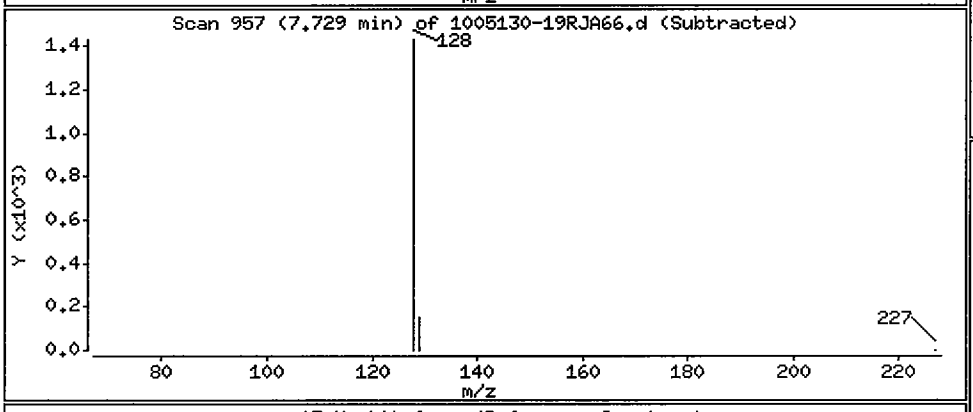
Column diameter: 0.32

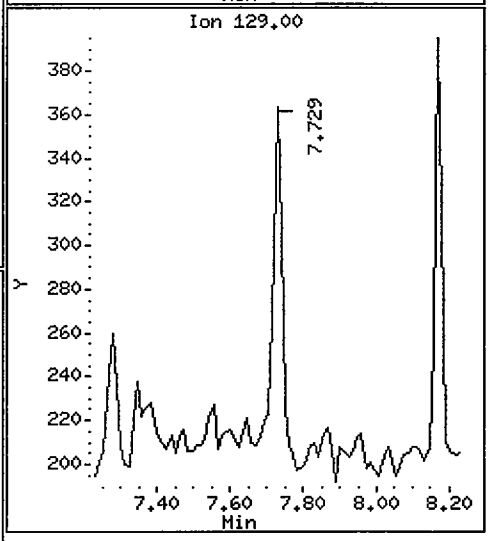
13 Naphthalene

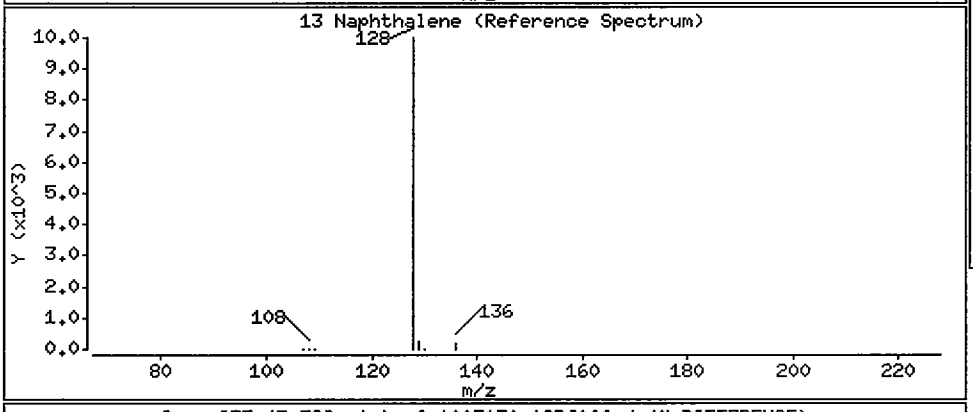
Concentration: 1.4 ug/Kg

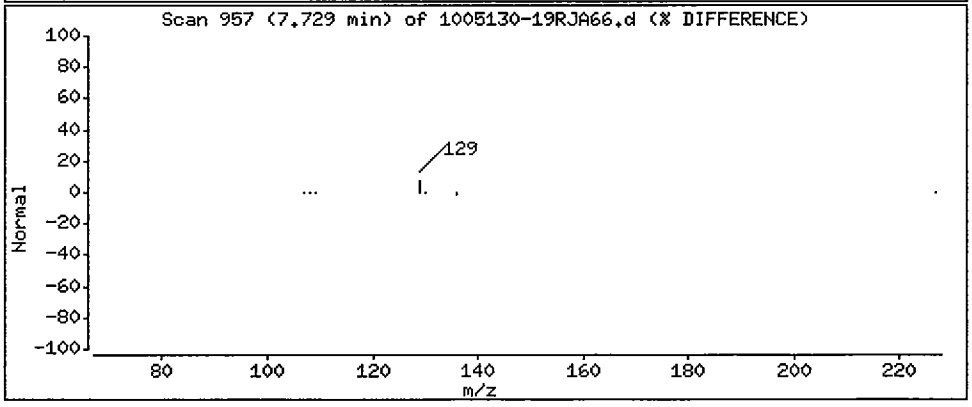












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB11-11-12

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-11
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-11C66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

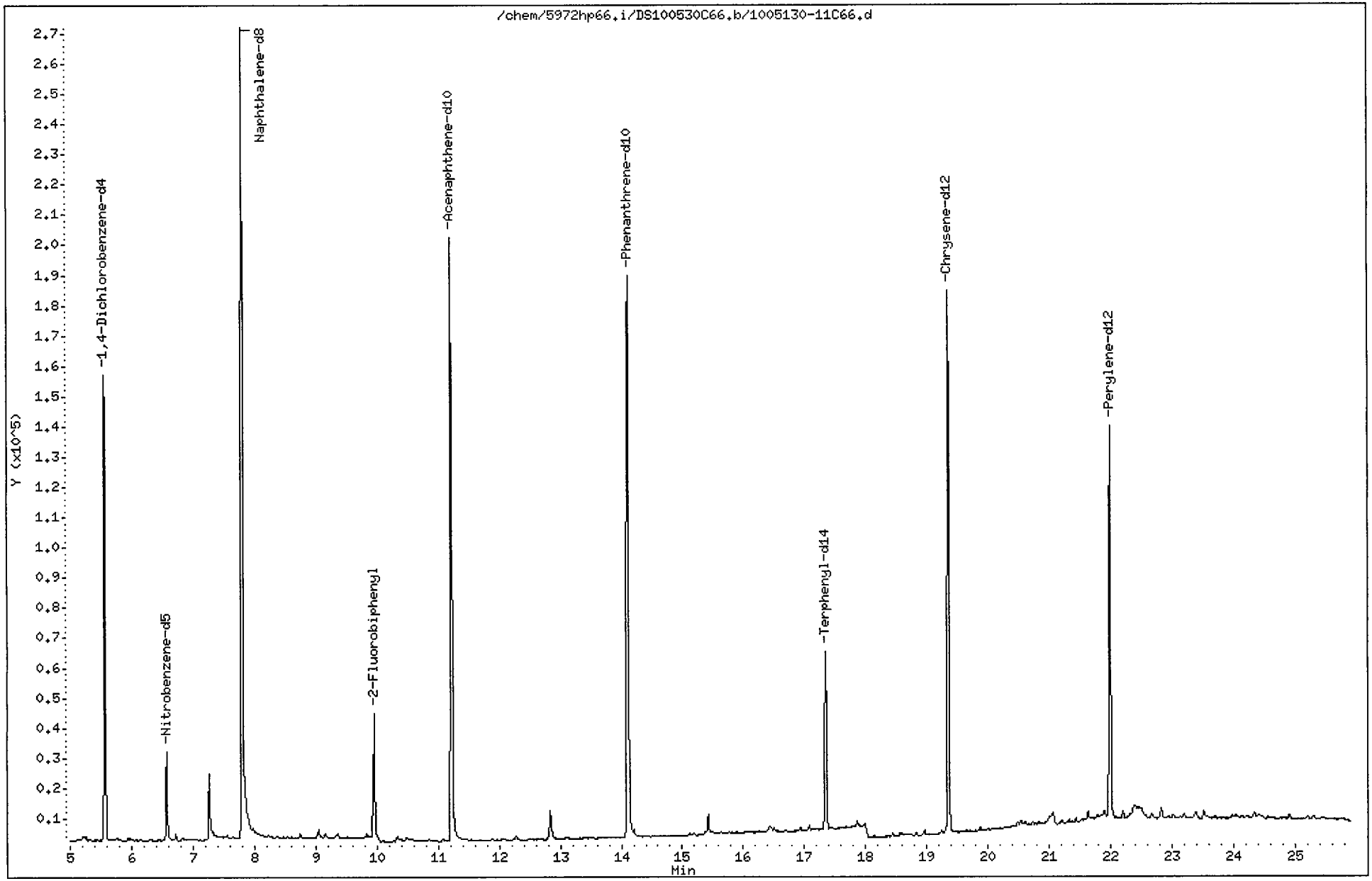
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-11C66.d
Date : 31-MAY-2010 11:29
Client ID: SB11-11-12
Sample Info: 1005130-11:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/1005130-11C66.d
Report Date: 02-Jun-2010 12:22

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/1005130-11C66.d
Lab Smp Id: 1005130-11 Client Smp ID: SB11-11-12
Inj Date : 31-MAY-2010 11:29
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-11:2743
Misc Info : SB11-11-12
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:55 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	20.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.573	5.543	(1.000)	103026	2.00000	
* 2 Naphthalene-d8	136	7.802	7.785	(1.000)	381259	2.00000	
* 3 Acenaphthene-d10	164	11.218	11.206	(1.000)	168179	2.00000	
* 4 Phenanthrene-d10	188	14.113	14.087	(1.000)	304688	2.00000	
* 5 Chrysene-d12	240	19.354	19.336	(1.000)	231904	2.00000	
* 6 Perylene-d12	264	21.994	21.960	(1.000)	170306	2.00000	
$ 9 Nitrobenzene-d5	82	6.576	6.547	(0.843)	34555	0.40731	8.5
$ 10 2-Fluorobiphenyl	172	9.952	9.936	(0.887)	58835	0.33525	7.0(R)
$ 12 Terphenyl-d14	244	17.346	17.334	(0.896)	73680	0.87443	18
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

06/2/10

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-11C66.d
Report Date: 02-Jun-2010 12:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB11-11-12RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-11RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-11REJ2A66
Analyst: 2650

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

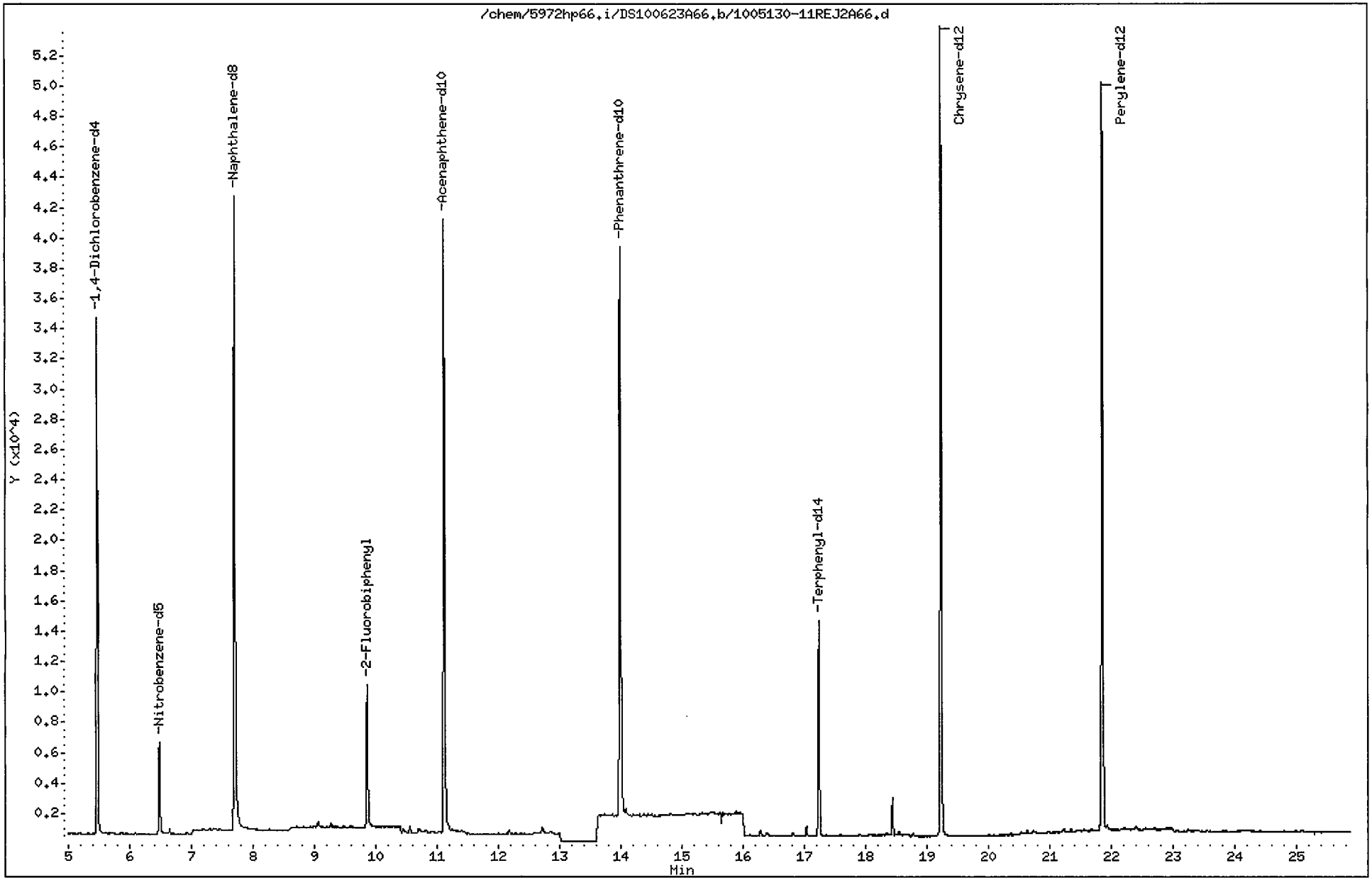
Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	ND	U
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	ND	U
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.71	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100623A66.b/1005130-11REJ2A66.d
Date : 23-JUN-2010 18:02
Client ID: SB11-11-12RE
Instrument: 5972hp66.i
Sample Info: 1005130-11RE1:OWS
Volume Injected (uL): 2.0
Operator: 2650
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100623A66.b/1005130-11REJ2A66.d
Report Date: 24-Jun-2010 14:07

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100623A66.b/1005130-11REJ2A66.d
Lab Smp Id: 1005130-11RE1 Client Smp ID: SB11-11-12RE
Inj Date : 23-JUN-2010 18:02
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 1005130-11RE1:OWS
Misc Info : SB11-11-12RE
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100623A66.b/SIM_8270Cv3DOD.m
Meth Date : 22-Jun-2010 11:09 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.469	5.485	(1.000)	19238	2.00000		(a)
* 2 Naphthalene-d8	136	7.705	7.718	(1.000)	61017	2.00000		(a)
* 3 Acenaphthene-d10	164	11.117	11.127	(1.000)	32791	2.00000		(a)
* 4 Phenanthrene-d10	188	13.990	13.992	(1.000)	57887	2.00000		(a)
* 5 Chrysene-d12	240	19.221	19.234	(1.000)	69847	2.00000		(a)
* 6 Perylene-d12	264	21.846	21.859	(1.000)	65946	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.480	6.490	(0.841)	6538	0.43724	7.3	
$ 10 2-Fluorobiphenyl	172	9.860	9.872	(0.887)	11310	0.43563	7.3	(R)
$ 12 Terphenyl-d14	244	17.234	17.248	(0.897)	17274	0.79523	13	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100623A66.b/1005130-11REJ2A66.d
Report Date: 24-Jun-2010 14:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB18-12-13

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-15
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-15C66
Analyst: 2743

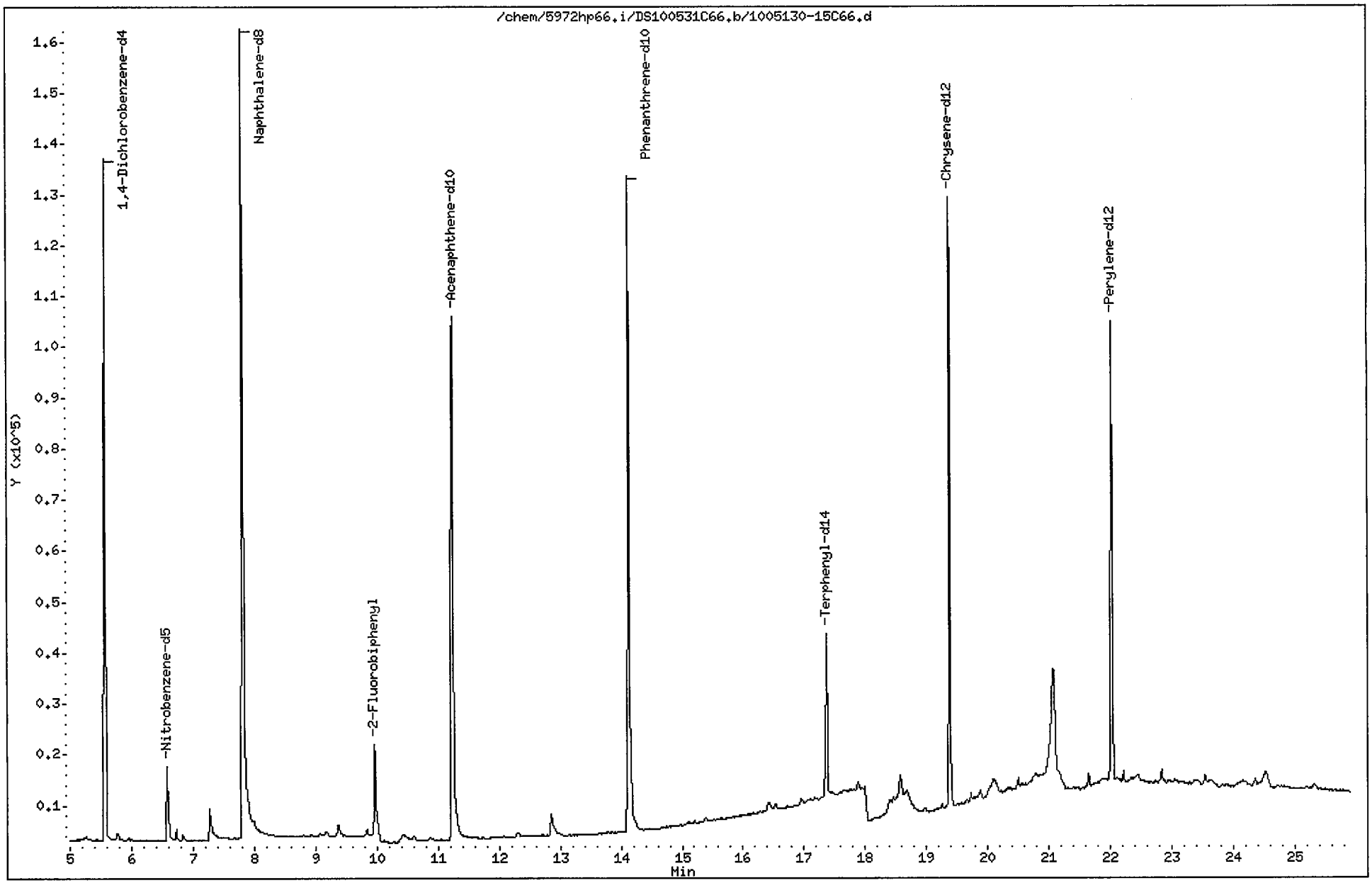
% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	ND	U
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	9.9	ND	U
50-32-8	Benzo(a)pyrene	0.46	9.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-15C66.d
Date : 01-JUN-2010 07:13
Client ID: SB18-12-13
Instrument: 5972hp66.i
Sample Info: 1005130-15:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-15C66.d
Report Date: 24-Jun-2010 12:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-15C66.d
Lab Smp Id: 1005130-15 Client Smp ID: SB18-12-13
Inj Date : 01-JUN-2010 07:13
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-15:2743
Misc Info : SB18-12-13
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	16.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.571	5.535	(1.000)	75901	2.00000	
* 2 Naphthalene-d8	136	7.813	7.790	(1.000)	273889	2.00000	
* 3 Acenaphthene-d10	164	11.243	11.218	(1.000)	119153	2.00000	
* 4 Phenanthrene-d10	188	14.126	14.101	(1.000)	220601	2.00000	
* 5 Chrysene-d12	240	19.378	19.353	(1.000)	175071	2.00000	
* 6 Perylene-d12	264	22.026	21.983	(1.000)	131477	2.00000	
$ 9 Nitrobenzene-d5	82	6.587	6.552	(0.843)	21604	0.35448	7.0
$ 10 2-Fluorobiphenyl	172	9.963	9.954	(0.886)	34129	0.27448	5.4(R)
$ 12 Terphenyl-d14	244	17.373	17.347	(0.897)	45473	0.71486	14
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-15C66.d
Report Date: 24-Jun-2010 12:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB18-12-13RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-15RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-15RJA66
Analyst: MEW

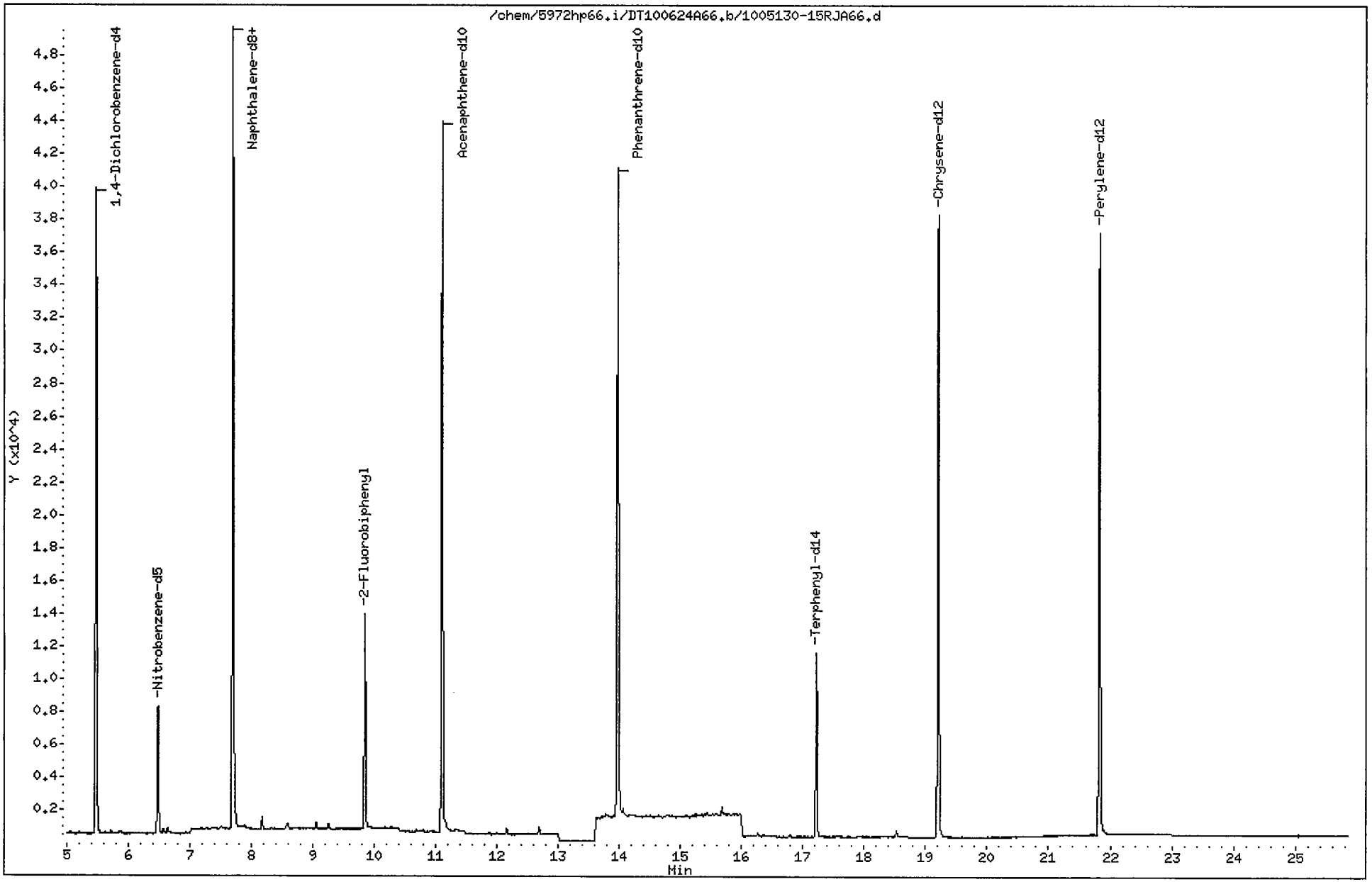
% Moisture: 16 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.85	9.9	0.90	JB
91-57-6	2-Methylnaphthalene	0.81	9.9	ND	U
208-96-8	Acenaphthylene	0.63	9.9	ND	U
83-32-9	Acenaphthene	0.71	9.9	ND	U
86-73-7	Fluorene	0.54	9.9	ND	U
85-01-8	Phenanthrene	1.6	9.9	ND	U
120-12-7	Anthracene	0.52	9.9	ND	U
206-44-0	Fluoranthene	1.6	9.9	ND	U
129-00-0	Pyrene	0.67	9.9	ND	U
56-55-3	Benzo(a)anthracene	0.67	9.9	ND	U
218-01-9	Chrysene	0.75	9.9	ND	U
205-99-2	Benzo(b)fluoranthene	0.67	9.9	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	9.9	ND	U
50-32-8	Benzo(a)pyrene	0.46	9.9	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	9.9	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	9.9	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	9.9	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-15RJA66.d
Date : 24-JUN-2010 15:14
Client ID: SB18-12-13RE
Instrument: 5972hp66.i
Sample Info: 1005130-15RE1:MEW
Volume Injected (uL): 2.0
Operator: MEW
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100624A66.b/1005130-15RJA66.d
Report Date: 25-Jun-2010 11:10

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100624A66.b/1005130-15RJA66.d
Lab Smp Id: 1005130-15RE1 Client Smp ID: SB18-12-13RE
Inj Date : 24-JUN-2010 15:14
Operator : MEW Inst ID: 5972hp66.i
Smp Info : 1005130-15RE1:MEW
Misc Info : SB18-12-13RE
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100624A66.b/SIM_8270Cv3DOD.m
Meth Date : 25-Jun-2010 10:58 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	16.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.472	5.451	(1.000)	24827	2.00000	
* 2 Naphthalene-d8	136	7.693	7.694	(1.000)	69487	2.00000	
* 3 Acenaphthene-d10	164	11.105	11.104	(1.000)	35077	2.00000	
* 4 Phenanthrene-d10	188	13.967	13.968	(1.000)	58683	2.00000	
* 5 Chrysene-d12	240	19.204	19.204	(1.000)	51630	2.00000	
* 6 Perylene-d12	264	21.825	21.824	(1.000)	50241	2.00000	
$ 9 Nitrobenzene-d5	82	6.478	6.461	(0.842)	8918	0.52371	10
$ 10 2-Fluorobiphenyl	172	9.847	9.846	(0.887)	14710	0.52966	11
$ 12 Terphenyl-d14	244	17.217	17.217	(0.897)	13628	0.84874	17
13 Naphthalene	128	7.728	7.718	(1.004)	1831	0.04514	0.90(a)
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

6/2/10

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-15RJA66.d
Report Date: 25-Jun-2010 11:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-15RJA66.d

Date : 24-JUN-2010 15:14

Client ID: SB18-12-13RE

Instrument: 5972hp66.i

Sample Info: 1005130-15RE1:MEW

Volume Injected (uL): 2.0

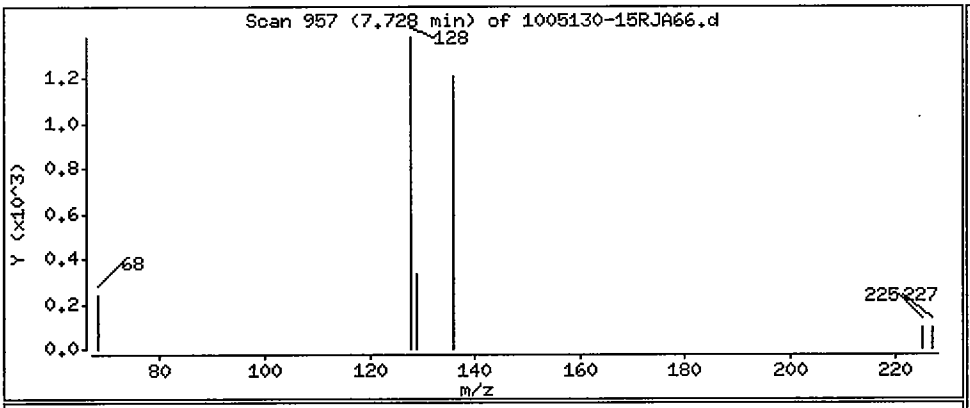
Operator: MEW

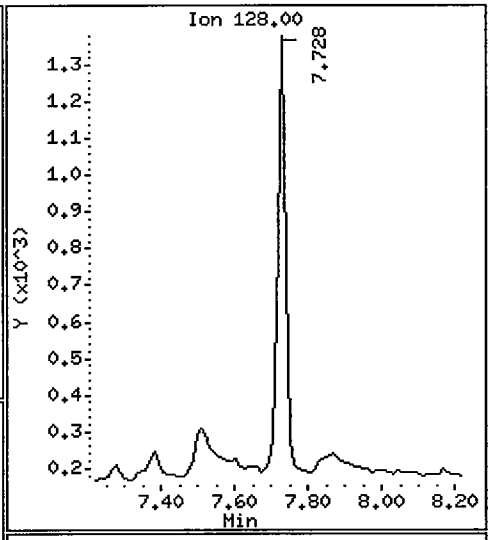
Column phase: Rtx-5MS

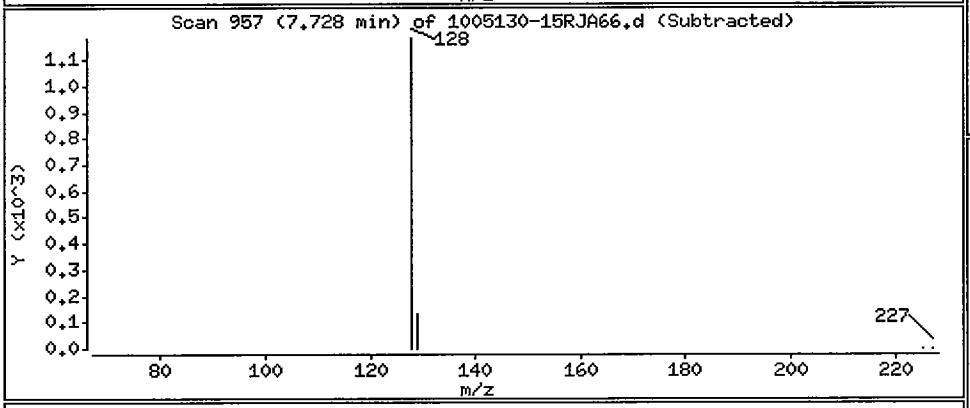
Column diameter: 0.32

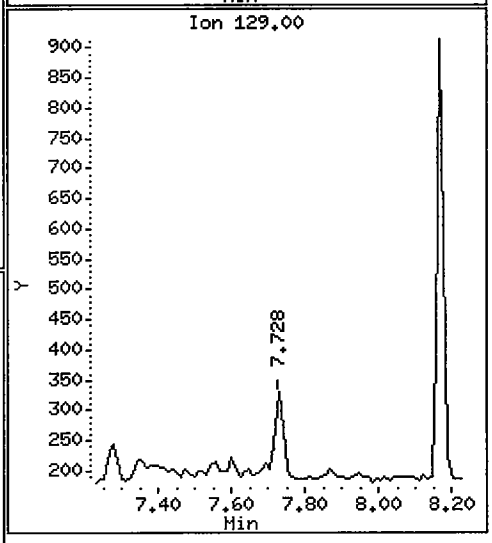
13 Naphthalene

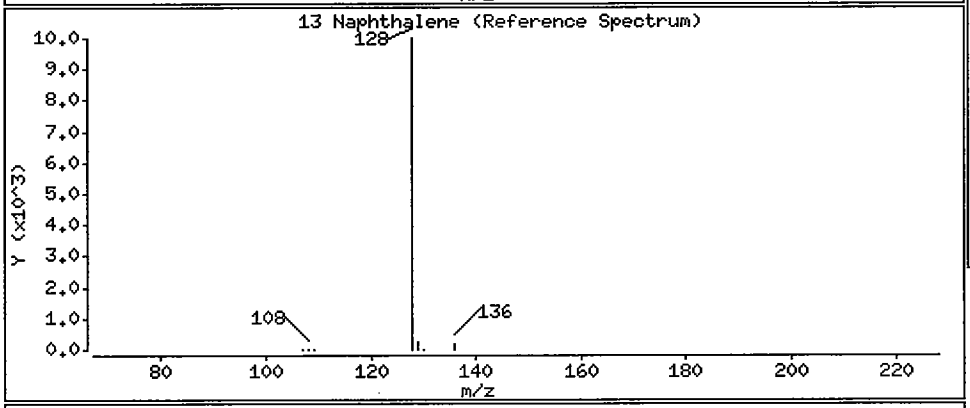
Concentration: 0.90 ug/Kg

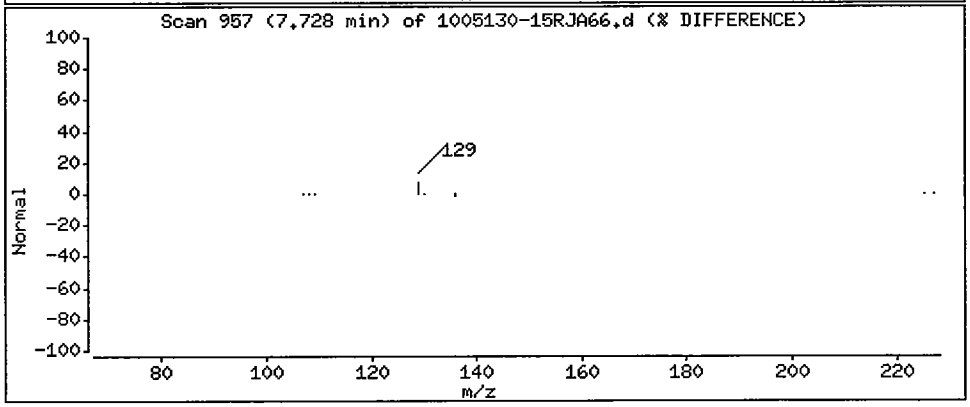












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB23-1.5-2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/10/10

Lab Sample ID: 1005130-02
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-02J2C66
Analyst: 2743

% Moisture: 19 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

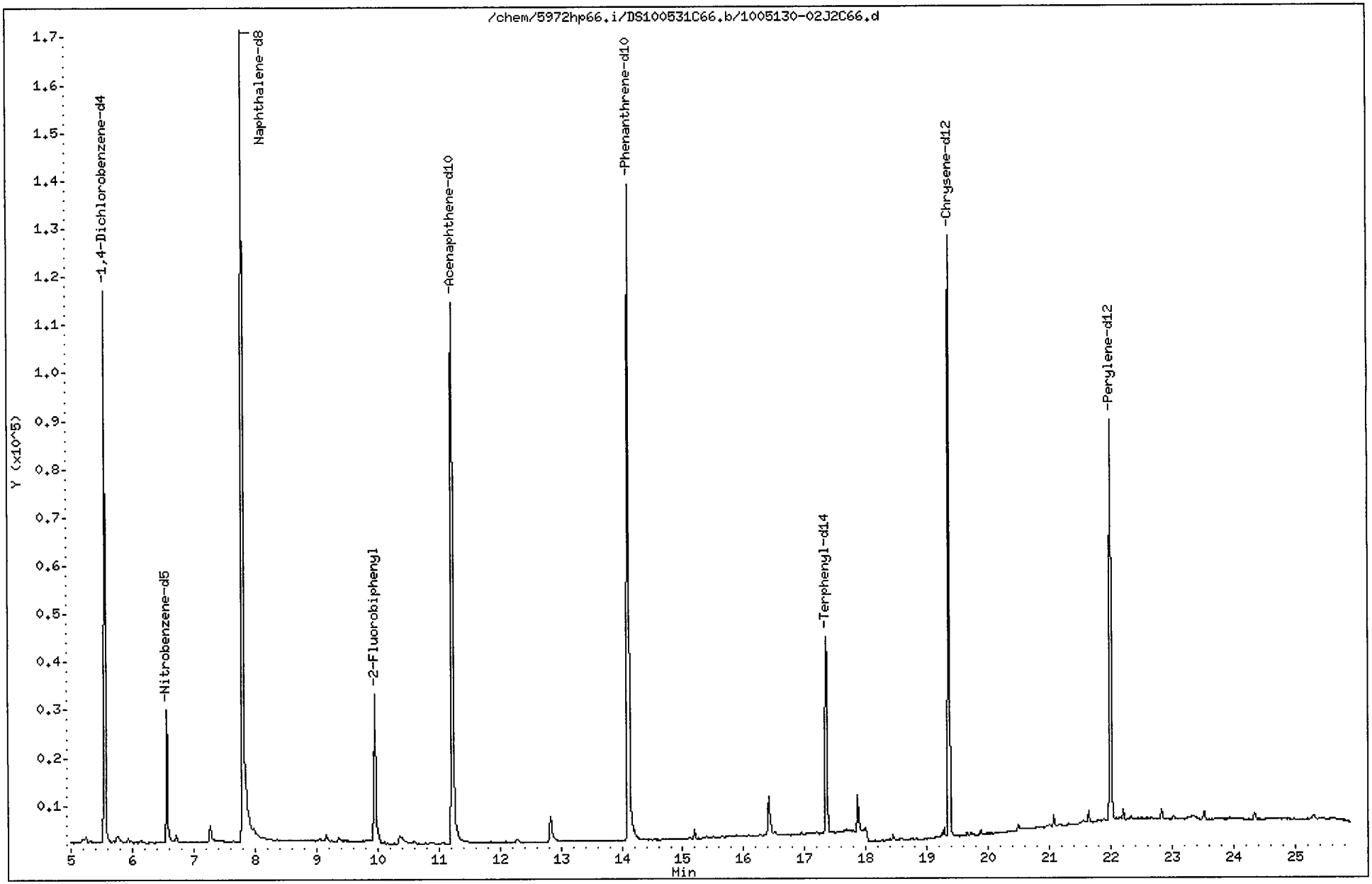
Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.88	10	ND	U
91-57-6	2-Methylnaphthalene	0.84	10	ND	U
208-96-8	Acenaphthylene	0.66	10	ND	U
83-32-9	Acenaphthene	0.74	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.53	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.70	10	ND	U
56-55-3	Benzo(a)anthracene	0.70	10	ND	U
218-01-9	Chrysene	0.78	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.70	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.53	10	ND	U
50-32-8	Benzo(a)pyrene	0.47	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.45	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.41	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.47	10	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-02J2C66.d
Date : 01-JUN-2010 03:15
Client ID: SB23-1.5-2
Sample Info: 1005130-02:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-02J2C66.d
Report Date: 02-Jun-2010 12:54

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-02J2C66.d
Lab Smp Id: 1005130-02 Client Smp ID: SB23-1.5-2
Inj Date : 01-JUN-2010 03:15
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-02:2743
Misc Info : SB23-1.5-2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	19.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.560	5.535	(1.000)	69406	2.00000		(a)
* 2 Naphthalene-d8	136	7.803	7.790	(1.000)	261284	2.00000		(a)
* 3 Acenaphthene-d10	164	11.230	11.218	(1.000)	114693	2.00000		(a)
* 4 Phenanthrene-d10	188	14.113	14.101	(1.000)	216124	2.00000		(a)
* 5 Chrysene-d12	240	19.361	19.353	(1.000)	168381	2.00000		(a)
* 6 Perylene-d12	264	21.993	21.983	(1.000)	126938	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.564	6.552	(0.841)	33423	0.57486	12	
$ 10 2-Fluorobiphenyl	172	9.953	9.954	(0.886)	55471	0.46348	9.5	
$ 12 Terphenyl-d14	244	17.360	17.347	(0.897)	55952	0.91455	19	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

6/2/10

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-02J2C66.d
Report Date: 02-Jun-2010 12:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB24-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-04
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-04C66
Analyst: 2743

% Moisture: 17 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

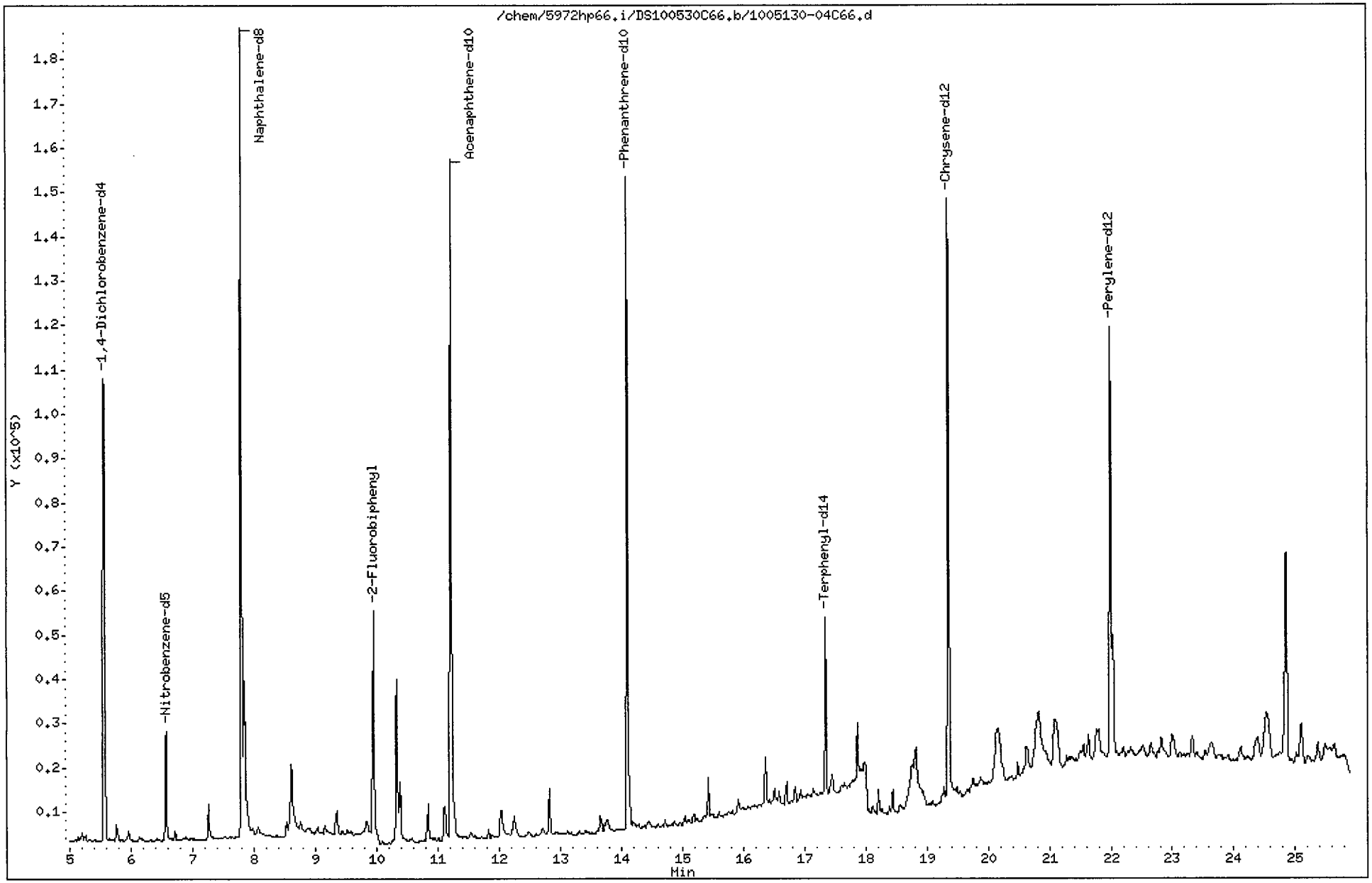
Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.86	10	ND	U
91-57-6	2-Methylnaphthalene	0.82	10	ND	U
208-96-8	Acenaphthylene	0.64	10	ND	U
83-32-9	Acenaphthene	0.72	10	ND	U
86-73-7	Fluorene	0.54	10	ND	U
85-01-8	Phenanthrene	1.6	10	ND	U
120-12-7	Anthracene	0.52	10	ND	U
206-44-0	Fluoranthene	1.6	10	ND	U
129-00-0	Pyrene	0.68	10	ND	U
56-55-3	Benzo(a)anthracene	0.68	10	ND	U
218-01-9	Chrysene	0.76	10	ND	U
205-99-2	Benzo(b)fluoranthene	0.68	10	ND	U
207-08-9	Benzo(k)fluoranthene	0.52	10	ND	U
50-32-8	Benzo(a)pyrene	0.46	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.40	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.46	10	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-04C66.d
Date : 31-MAY-2010 08:06
Client ID: SB24-3-4
Sample Info: 1005130-04:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/1005130-04C66.d
Report Date: 02-Jun-2010 12:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/1005130-04C66.d
Lab Smp Id: 1005130-04 Client Smp ID: SB24-3-4
Inj Date : 31-MAY-2010 08:06
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-04:2743
Misc Info : SB24-3-4
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:55 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.571	5.543	(1.000)	71776	2.00000		(a)
*	2 Naphthalene-d8	136	7.800	7.785	(1.000)	244378	2.00000		(a)
*	3 Acenaphthene-d10	164	11.217	11.206	(1.000)	113334	2.00000		(a)
*	4 Phenanthrene-d10	188	14.101	14.087	(1.000)	208011	2.00000		(a)
*	5 Chrysene-d12	240	19.353	19.336	(1.000)	166761	2.00000		(a)
*	6 Perylene-d12	264	21.994	21.960	(1.000)	133171	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.574	6.547	(0.843)	31724	0.58339	12	
$	10 2-Fluorobiphenyl	172	9.950	9.936	(0.887)	70700	0.59780	12	
$	12 Terphenyl-d14	244	17.347	17.334	(0.896)	47656	0.78651	16	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-04C66.d
Report Date: 02-Jun-2010 12:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB25-3-4

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-17
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-17C66
Analyst: 2743

% Moisture: 6 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

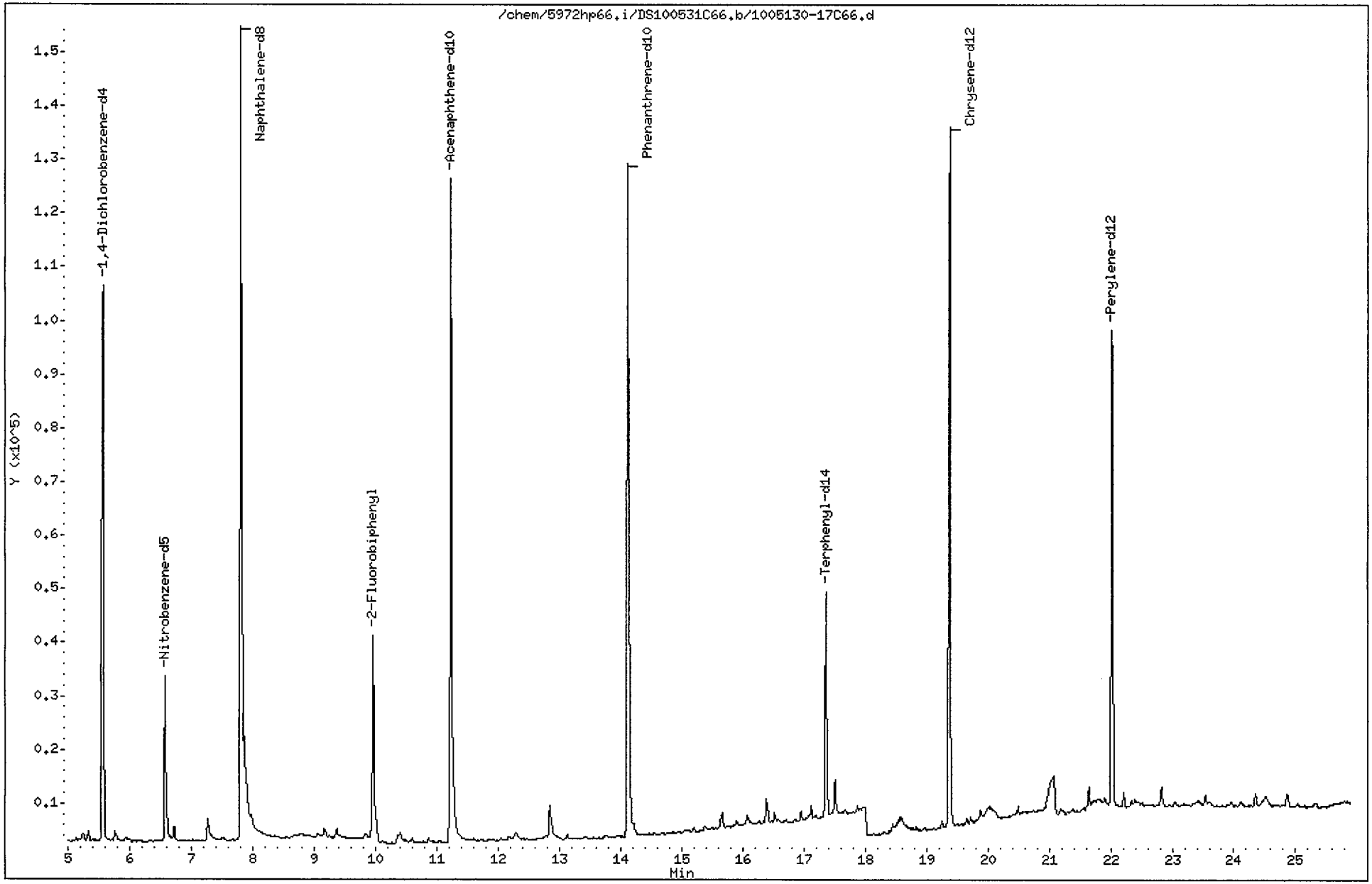
Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.76	8.8	ND	U
91-57-6	2-Methylnaphthalene	0.73	8.8	ND	U
208-96-8	Acenaphthylene	0.57	8.8	ND	U
83-32-9	Acenaphthene	0.64	8.8	ND	U
86-73-7	Fluorene	0.48	8.8	ND	U
85-01-8	Phenanthrene	1.4	8.8	ND	U
120-12-7	Anthracene	0.46	8.8	ND	U
206-44-0	Fluoranthene	1.4	8.8	ND	U
129-00-0	Pyrene	0.60	8.8	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.8	ND	U
218-01-9	Chrysene	0.67	8.8	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.8	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.8	ND	U
50-32-8	Benzo(a)pyrene	0.41	8.8	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.8	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.8	ND	U
191-24-2	Benzo(g,h,i)perylene	0.41	8.8	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-17C66.d
Date : 01-JUN-2010 08:21
Client ID: SB25-3-4
Sample Info: 1005130-17:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-17C66.d
Report Date: 02-Jun-2010 12:55

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-17C66.d
Lab Smp Id: 1005130-17 Client Smp ID: SB25-3-4
Inj Date : 01-JUN-2010 08:21
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-17:2743
Misc Info : SB25-3-4
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	6.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.570	5.535	(1.000)	73327	2.00000		(a)
*	2 Naphthalene-d8	136	7.812	7.790	(1.000)	260406	2.00000		(a)
*	3 Acenaphthene-d10	164	11.230	11.218	(1.000)	119498	2.00000		(a)
*	4 Phenanthrene-d10	188	14.127	14.101	(1.000)	223187	2.00000		(a)
*	5 Chrysene-d12	240	19.379	19.353	(1.000)	175601	2.00000		(a)
*	6 Perylene-d12	264	22.015	21.983	(1.000)	136308	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.574	6.552	(0.841)	38338	0.66162	12	
$	10 2-Fluorobiphenyl	172	9.963	9.954	(0.887)	67094	0.53805	9.5	
$	12 Terphenyl-d14	244	17.360	17.347	(0.896)	55114	0.86381	15	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-17C66.d
Report Date: 02-Jun-2010 12:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB47-14-15

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-08
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-08C66
Analyst: 2743

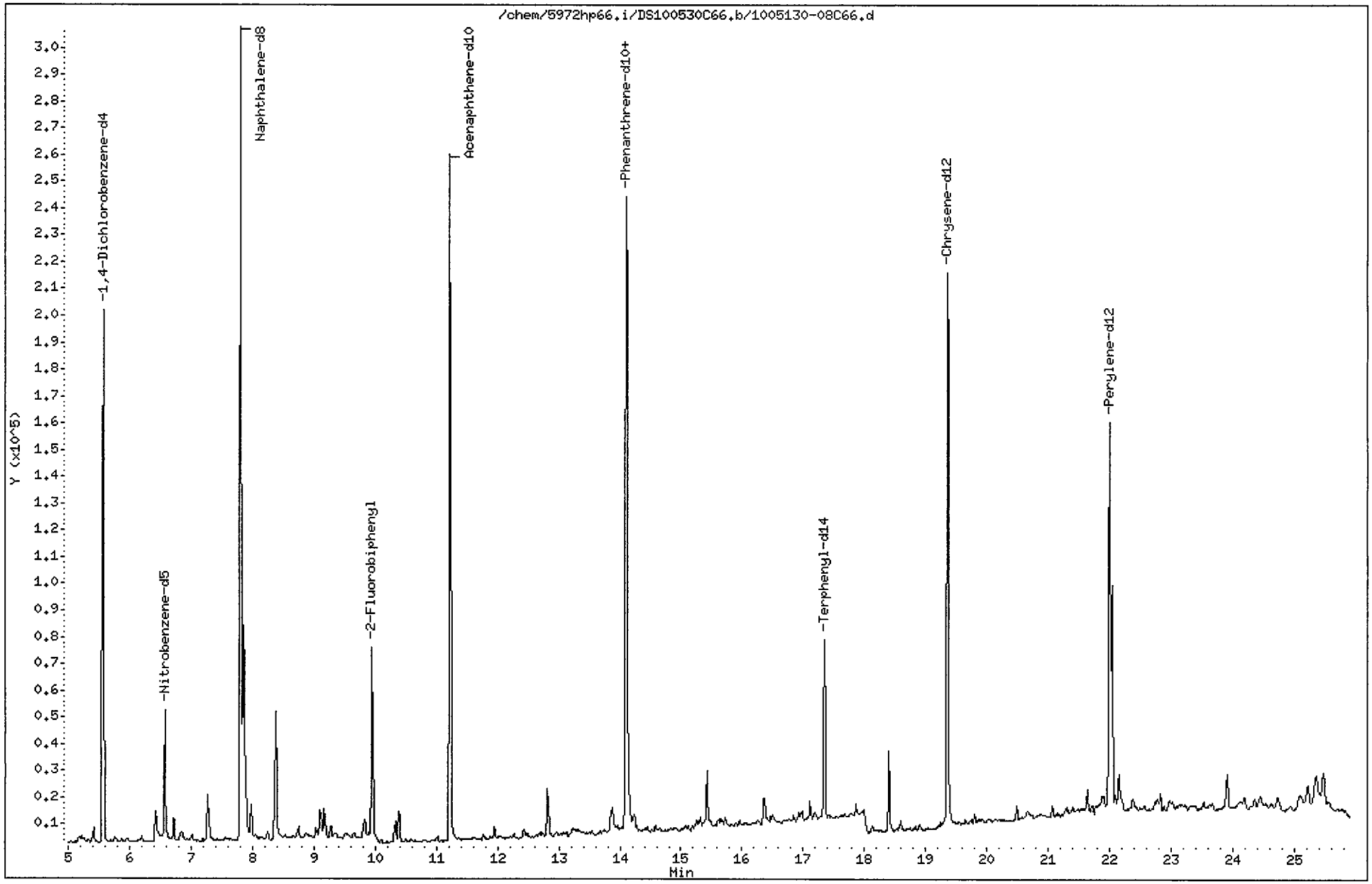
% Moisture: 31 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.0	12	ND	U
91-57-6	2-Methylnaphthalene	0.99	12	ND	U
208-96-8	Acenaphthylene	0.77	12	ND	U
83-32-9	Acenaphthene	0.87	12	ND	U
86-73-7	Fluorene	0.65	12	ND	U
85-01-8	Phenanthrene	1.9	12	3.6	J
120-12-7	Anthracene	0.63	12	ND	U
206-44-0	Fluoranthene	1.9	12	ND	U
129-00-0	Pyrene	0.82	12	ND	U
56-55-3	Benzo(a)anthracene	0.82	12	ND	U
218-01-9	Chrysene	0.92	12	ND	U
205-99-2	Benzo(b)fluoranthene	0.82	12	ND	U
207-08-9	Benzo(k)fluoranthene	0.63	12	ND	U
50-32-8	Benzo(a)pyrene	0.56	12	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.53	12	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.48	12	ND	U
191-24-2	Benzo(g,h,i)perylene	0.56	12	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-08C66.d
Date : 31-MAY-2010 09:48
Client ID: SB47-14-15
Instrument: 5972hp66.i
Sample Info: 1005130-08:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/1005130-08C66.d
Report Date: 02-Jun-2010 11:56

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/1005130-08C66.d
Lab Smp Id: 1005130-08 Client Smp ID: SB47-14-15
Inj Date : 31-MAY-2010 09:48
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-08:2743
Misc Info : SB47-14-15
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:55 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	31.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.570	5.543	(1.000)	121141	2.00000		(a)
*	2 Naphthalene-d8	136	7.799	7.785	(1.000)	451152	2.00000		(a)
*	3 Acenaphthene-d10	164	11.217	11.206	(1.000)	198225	2.00000		(a)
*	4 Phenanthrene-d10	188	14.101	14.087	(1.000)	353756	2.00000		(a)
*	5 Chrysene-d12	240	19.352	19.336	(1.000)	271124	2.00000		(a)
*	6 Perylene-d12	264	21.993	21.960	(1.000)	204113	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.574	6.547	(0.843)	55520	0.55304	13	
$	10 2-Fluorobiphenyl	172	9.950	9.936	(0.887)	98828	0.47777	12	
$	12 Terphenyl-d14	244	17.347	17.334	(0.896)	81208	0.82436	20	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-08C66.d
Report Date: 02-Jun-2010 11:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21	Fluorene	166	Compound Not Detected.					
25	Phenanthrene	178	14.140	14.126	(1.003)	32434	0.14703	3.6(a)
26	Anthracene	178	Compound Not Detected.					
27	Fluoranthene	202	Compound Not Detected.					
28	Pyrene	202	Compound Not Detected.					
29	Benzo(a)anthracene	228	Compound Not Detected.					
30	Chrysene	228	Compound Not Detected.					
31	Benzo(b)fluoranthene	252	Compound Not Detected.					
32	Benzo(k)fluoranthene	252	Compound Not Detected.					
33	Benzo(a)pyrene	252	Compound Not Detected.					
34	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36	Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-08C66.d

Date : 31-MAY-2010 09:48

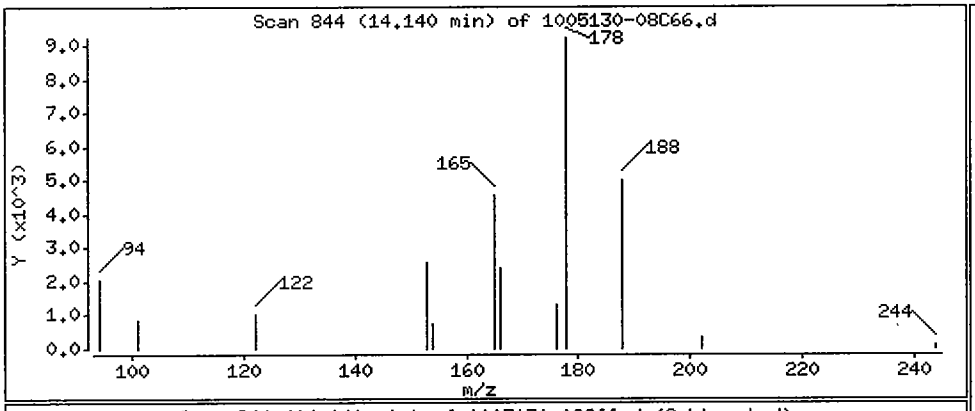
Client ID: SB47-14-15 Instrument: 5972hp66.i

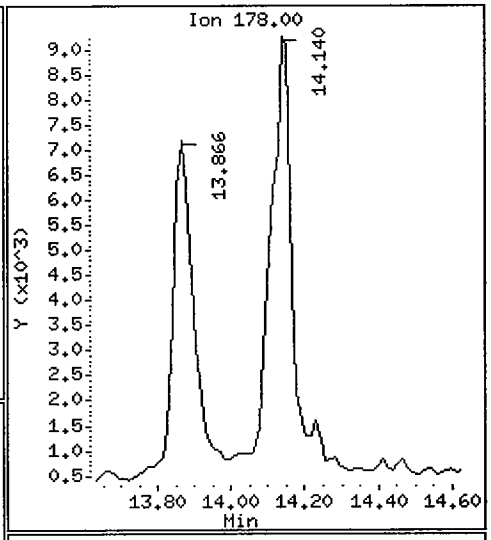
Sample Info: 1005130-08:2743

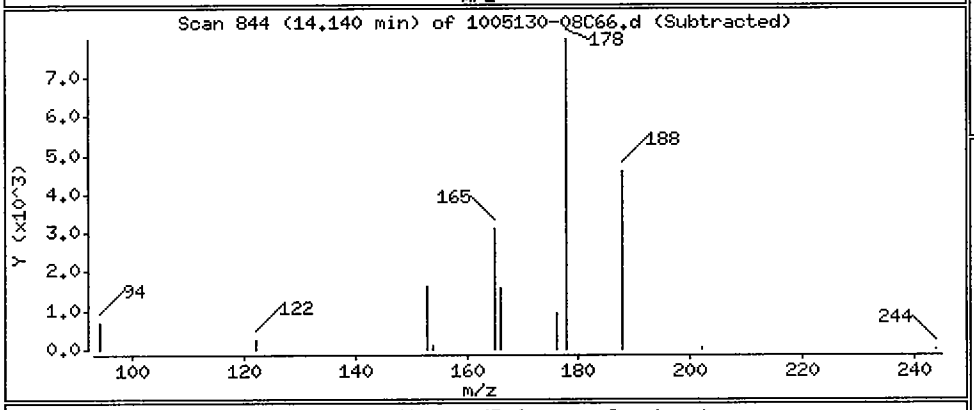
Volume Injected (uL): 2.0 Operator: 2743

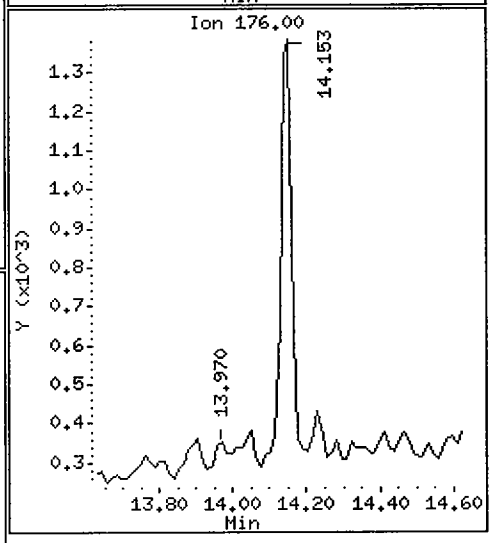
Column phase: Rtx-5MS Column diameter: 0.32

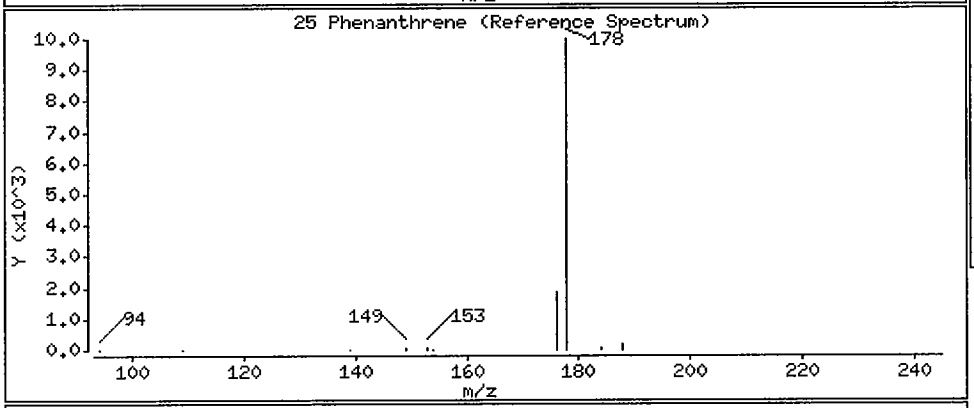
25 Phenanthrene Concentration: 3.6 ug/Kg

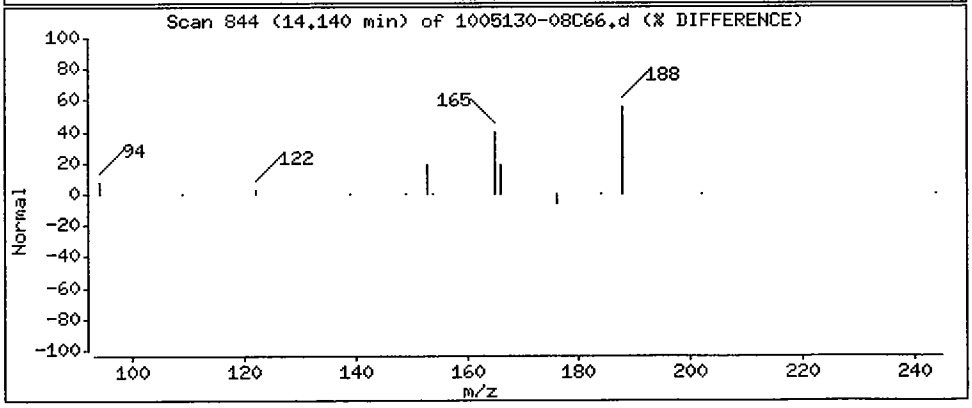












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB48-7-8

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-12
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-12JC66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

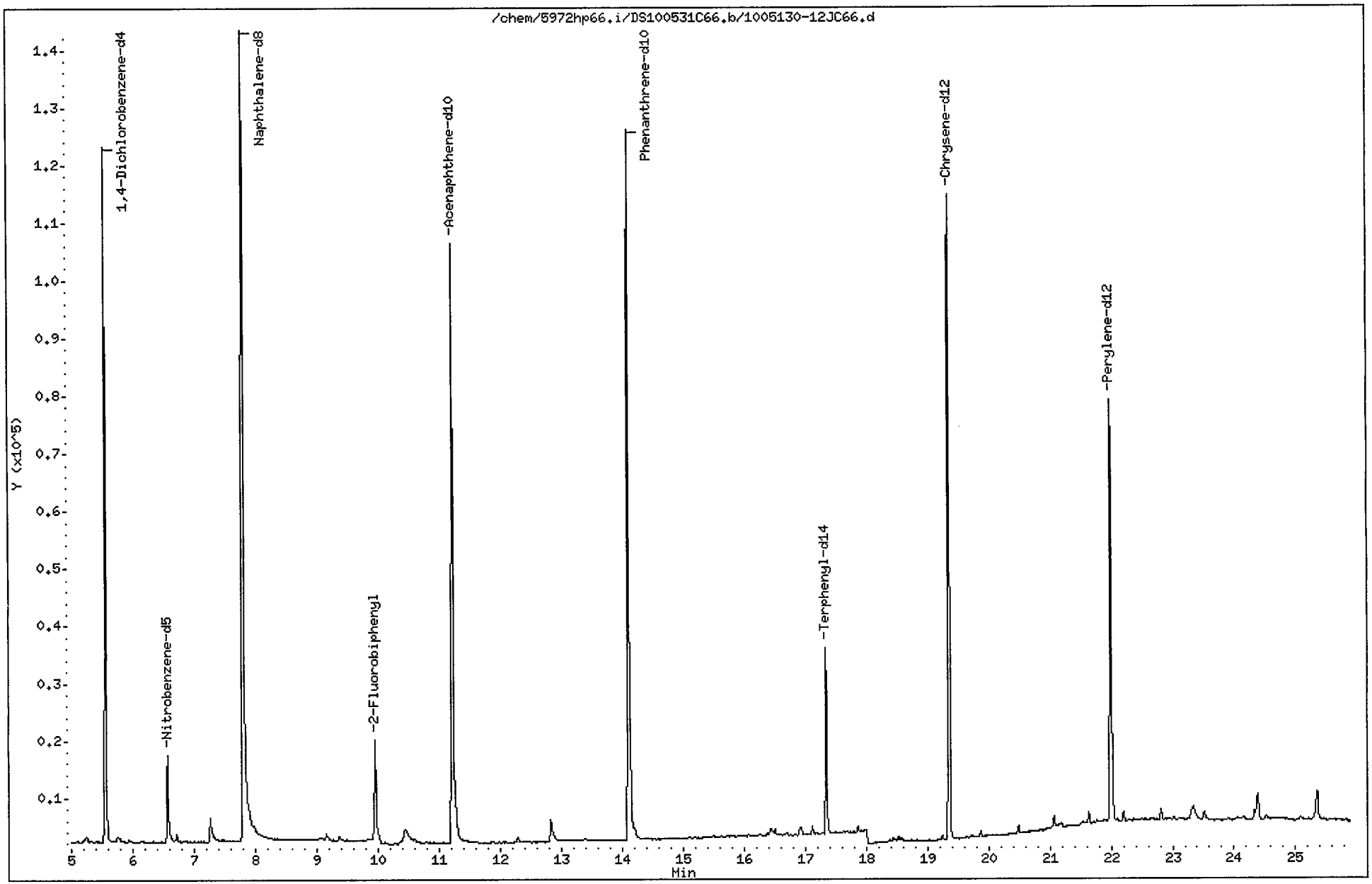
Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	ND	U
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.72	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.55	11	ND	U
50-32-8	Benzo(a)pyrene	0.49	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-12JC66.d
Date : 01-JUN-2010 03:49
Client ID: SB48-7-8
Sample Info: 1005130-12:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-12JC66.d
Report Date: 24-Jun-2010 12:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-12JC66.d
Lab Smp Id: 1005130-12 Client Smp ID: SB48-7-8
Inj Date : 01-JUN-2010 03:49
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-12:2743
Misc Info : SB48-7-8
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	21.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.558	5.535	(1.000)	67929	2.00000		(a)
* 2 Naphthalene-d8	136	7.800	7.790	(1.000)	242659	2.00000		(a)
* 3 Acenaphthene-d10	164	11.230	11.218	(1.000)	106131	2.00000		(a)
* 4 Phenanthrene-d10	188	14.114	14.101	(1.000)	202074	2.00000		(a)
* 5 Chrysene-d12	240	19.362	19.353	(1.000)	149903	2.00000		(a)
* 6 Perylene-d12	264	21.994	21.983	(1.000)	106868	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.575	6.552	(0.843)	19849	0.36760	7.8	
$ 10 2-Fluorobiphenyl	172	9.964	9.954	(0.887)	33633	0.30368	6.4	(R)
$ 12 Terphenyl-d14	244	17.348	17.347	(0.896)	42970	0.78893	17	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-12JC66.d
Report Date: 24-Jun-2010 12:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB48-7-8RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-12RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-12RE1JA66
Analyst: OWS

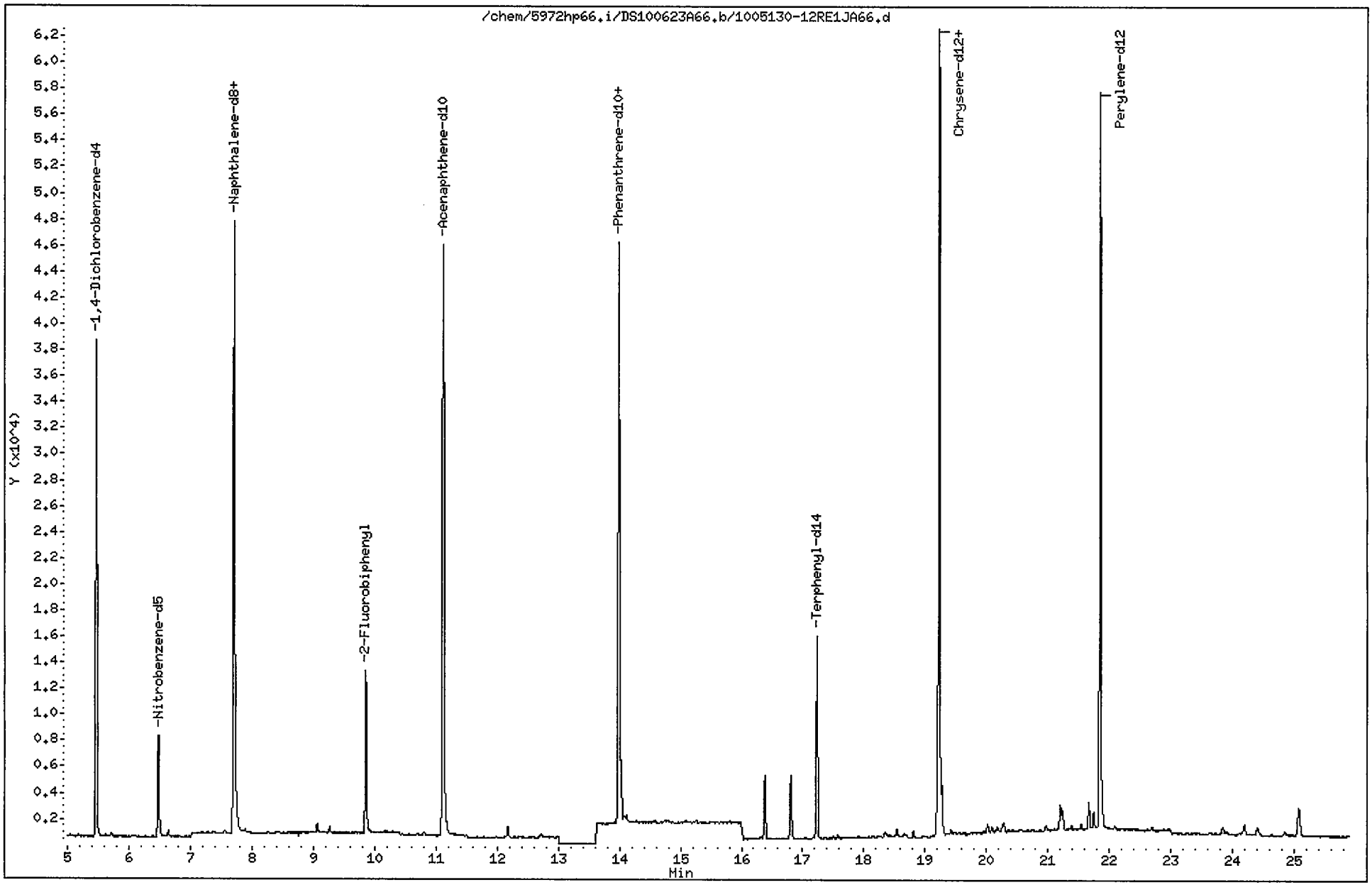
% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	1.8	JB
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	3.0	J
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	3.9	J
129-00-0	Pyrene	0.72	11	2.9	J
56-55-3	Benzo(a)anthracene	0.72	11	1.8	J
218-01-9	Chrysene	0.80	11	2.8	J
205-99-2	Benzo(b)fluoranthene	0.72	11	1.3	J
207-08-9	Benzo(k)fluoranthene	0.55	11	1.1	J
50-32-8	Benzo(a)pyrene	0.49	11	0.86	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	0.61	J
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	0.66	J

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Date : 23-JUN-2010 18:36
Client ID: SB48-7-8RE
Instrument: 5972hp66.i
Sample Info: 1005130-12RE1:OWS
Volume Injected (uL): 2.0
Operator: OWS
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Report Date: 24-Jun-2010 12:37

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Lab Smp Id: 1005130-12RE1 Client Smp ID: SB48-7-8RE
Inj Date : 23-JUN-2010 18:36
Operator : OWS Inst ID: 5972hp66.i
Smp Info : 1005130-12RE1:OWS
Misc Info : SB48-7-8RE
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100623A66.b/SIM_8270Cv3DOD.m
Meth Date : 24-Jun-2010 12:36 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	21.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.469	5.450	(1.000)	22065	2.00000	(a)
* 2 Naphthalene-d8	136	7.706	7.694	(1.000)	70437	2.00000	(a)
* 3 Acenaphthene-d10	164	11.118	11.105	(1.000)	37732	2.00000	(a)
* 4 Phenanthrene-d10	188	13.991	13.979	(1.000)	67742	2.00000	(a)
* 5 Chrysene-d12	240	19.222	19.212	(1.000)	80863	2.00000	(a)
* 6 Perylene-d12	264	21.846	21.838	(1.000)	75773	2.00000	(a)
$ 9 Nitrobenzene-d5	82	6.479	6.460	(0.841)	9247	0.53570	11
$ 10 2-Fluorobiphenyl	172	9.859	9.847	(0.887)	14248	0.47692	10
$ 12 Terphenyl-d14	244	17.235	17.226	(0.897)	19626	0.78042	16
13 Naphthalene	128	7.741	7.729	(1.004)	3452	0.08395	1.8 (aM)
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

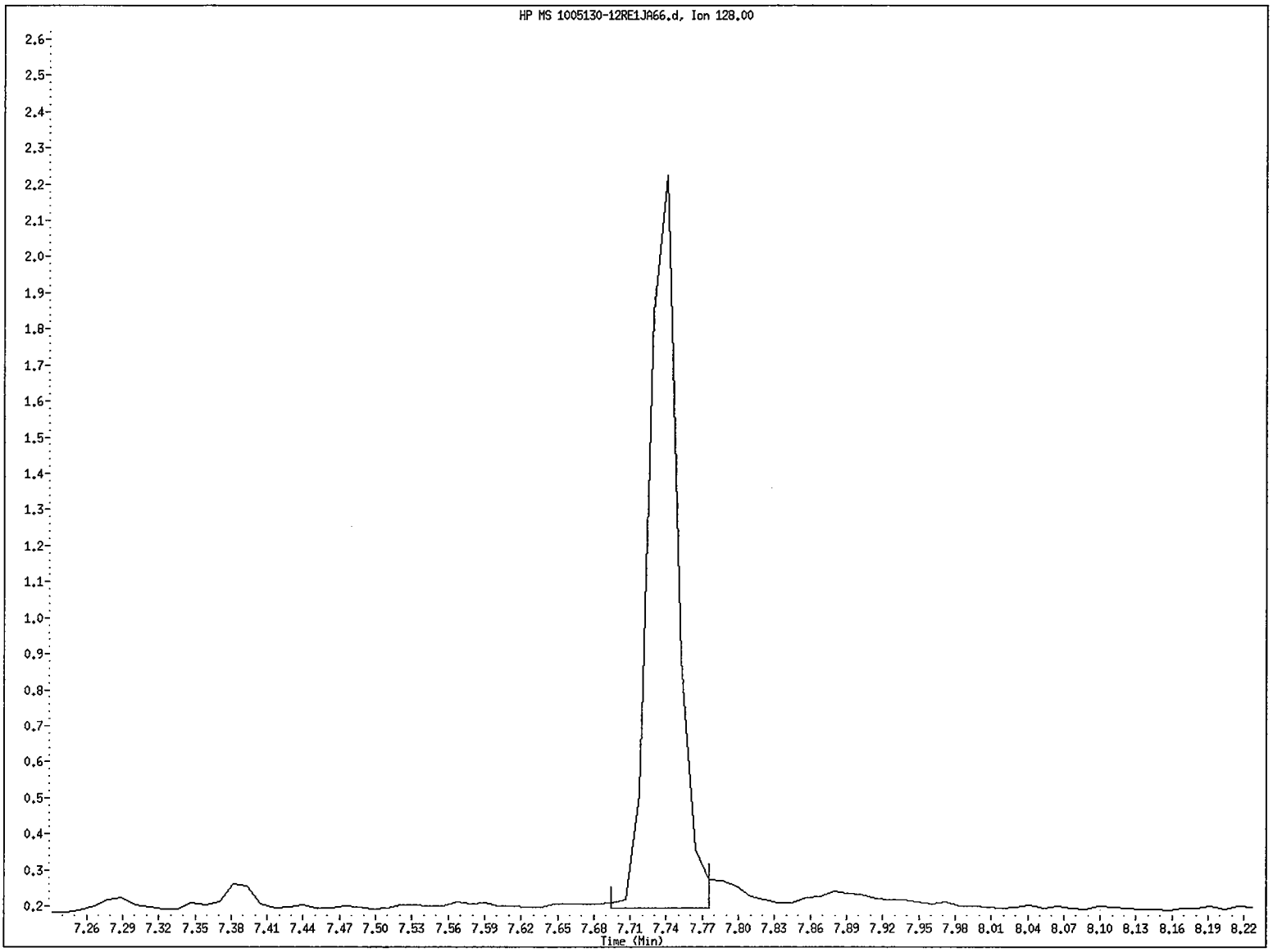
Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Report Date: 24-Jun-2010 12:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.026	14.014	(1.002)	5332	0.14396	3.0(a)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	16.383	16.369	(1.171)	6544	0.18552	3.9(a)
28 Pyrene	202	16.807	16.793	(0.874)	6745	0.13726	2.9(a)
29 Benzo(a)anthracene	228	19.191	19.181	(0.998)	3196	0.08364	1.8(a)
30 Chrysene	228	19.266	19.260	(1.002)	5147	0.13042	2.8(a)
31 Benzo(b)fluoranthene	252	21.197	21.189	(0.970)	2591	0.06197	1.3(a)
32 Benzo(k)fluoranthene	252	21.233	21.229	(0.972)	2375	0.05231	1.1(aM)
33 Benzo(a)pyrene	252	21.740	21.732	(0.995)	1603	0.04067	0.86(aM)
34 Indeno(1,2,3-cd)pyrene	276	23.840	23.821	(1.091)	999	0.02899	0.61(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.400	24.386	(1.117)	1182	0.03120	0.66(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

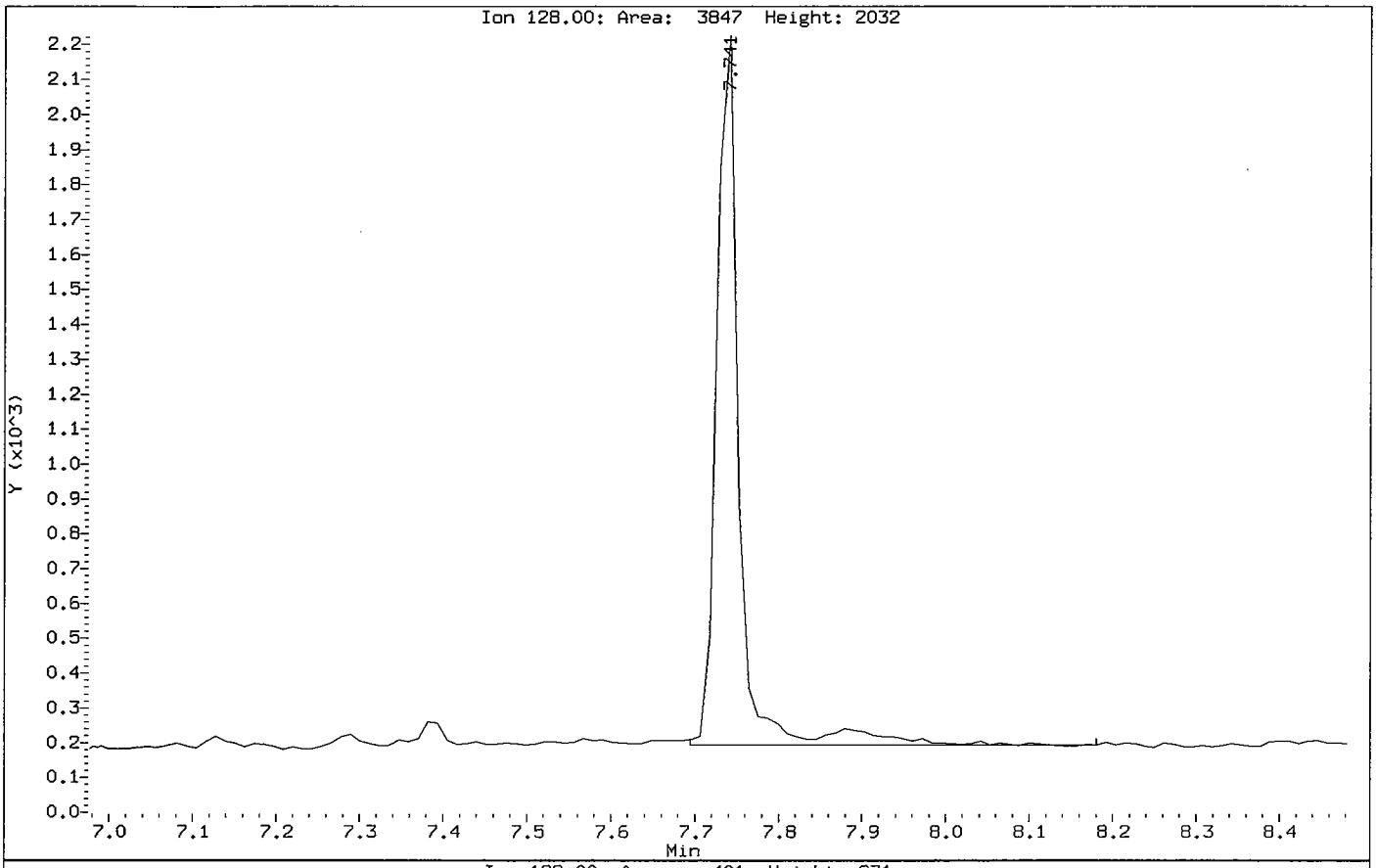
Naphthalene CAS Number 91-20-3 Area = 3452 Manually integrated

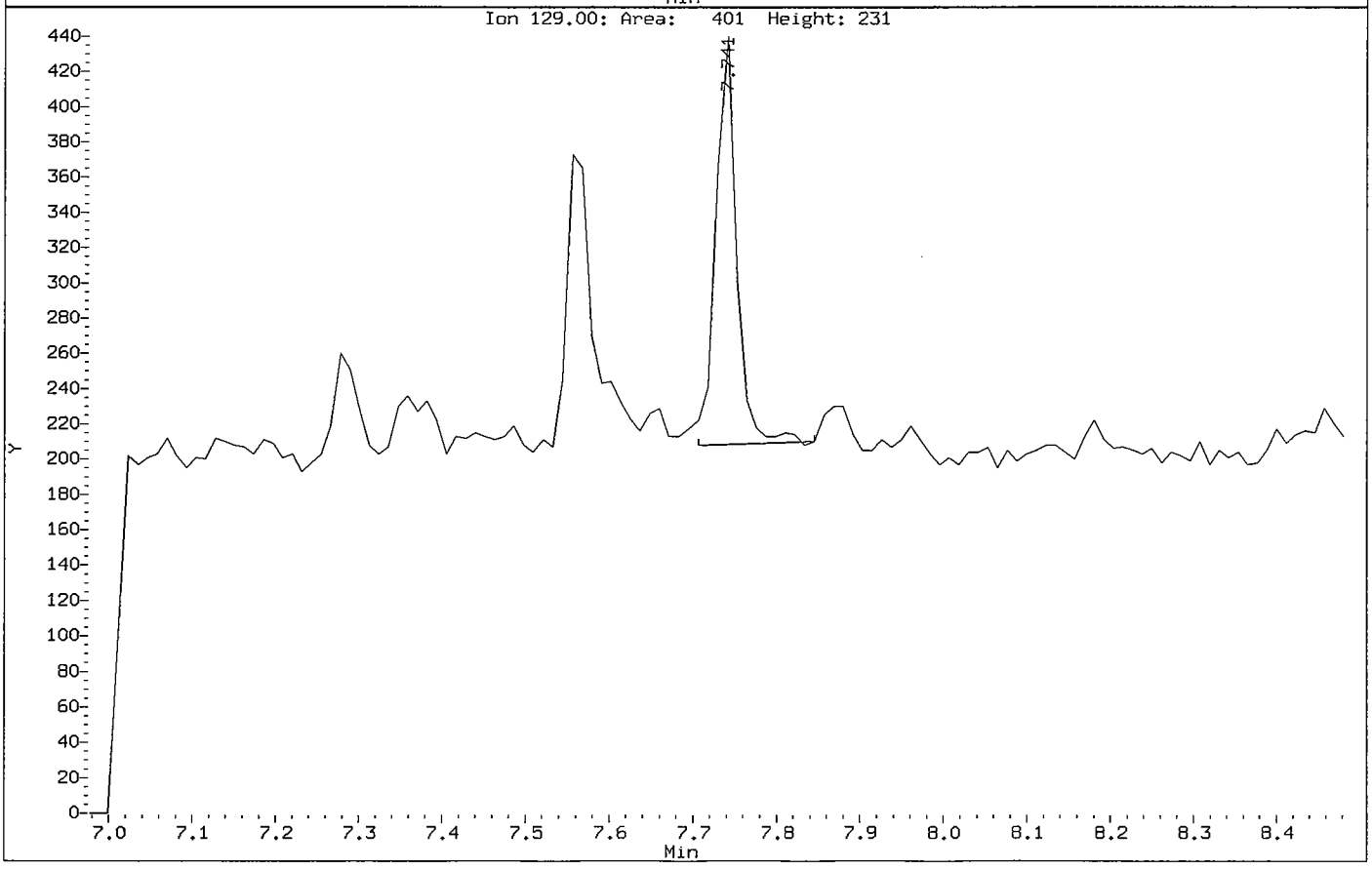


File name: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Client ID: SB48-7-8RE
Instrument ID: 5972hp66.i
Injection Date and Time: 23-JUN-2010 18:36
Retention Time: 7.74
Operator ID: OWS

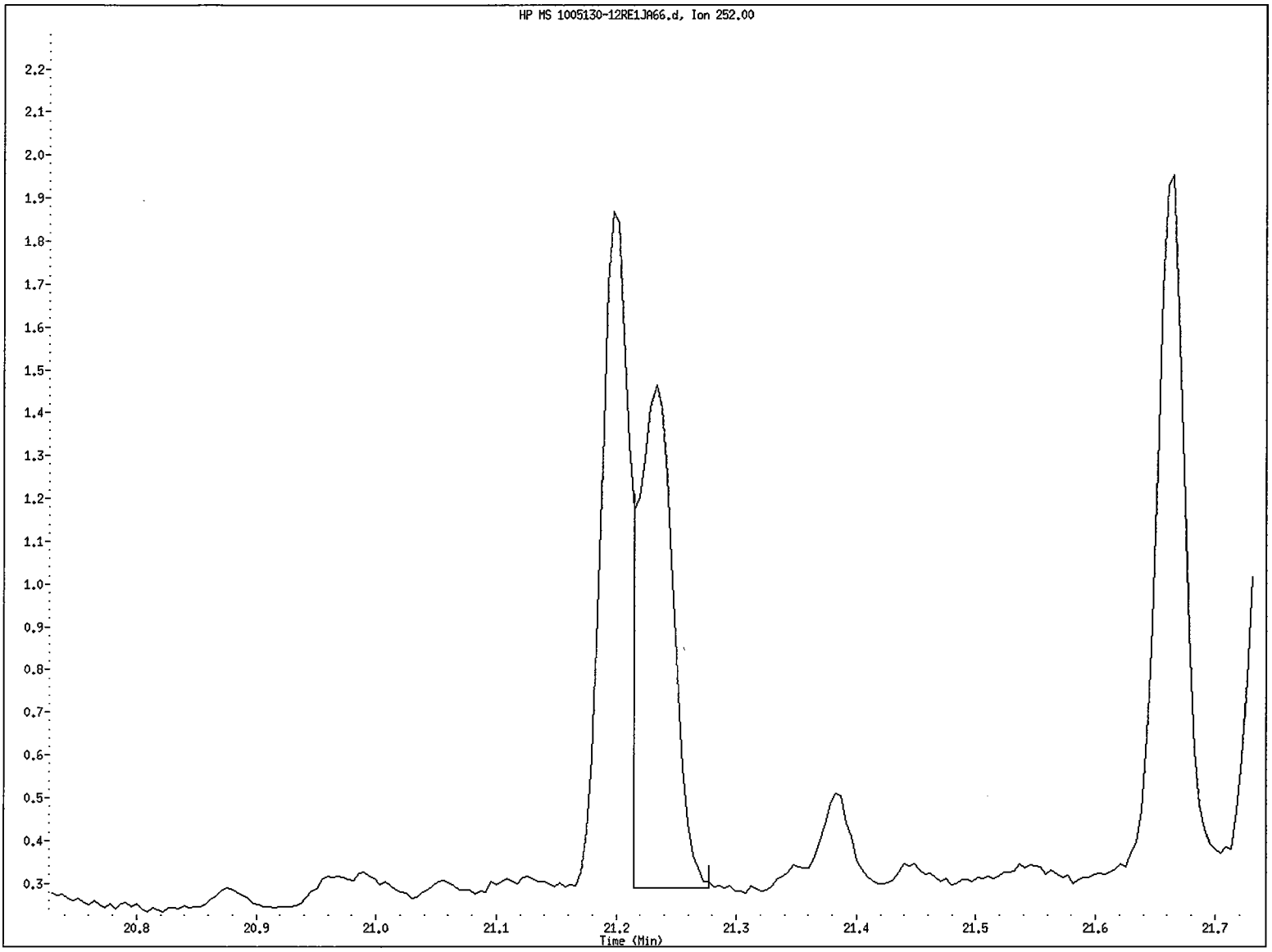
Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Injection Date: 23-JUN-2010 18:36
Instrument: 5972hp66.i
Client Sample ID: SB48-7-8RE

Compound: Naphthalene
CAS Number: 91-20-3





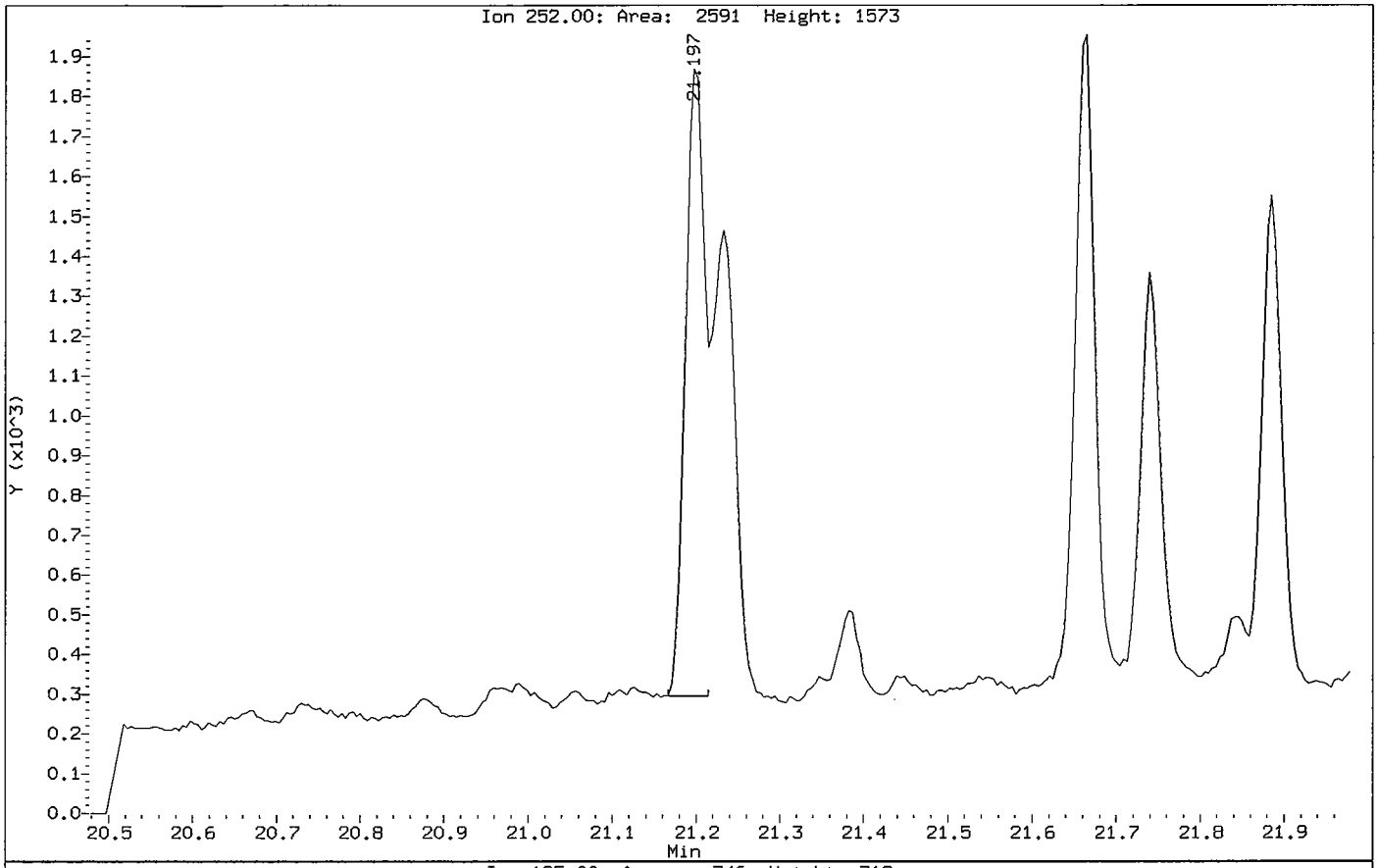
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 2375 Manually integrated

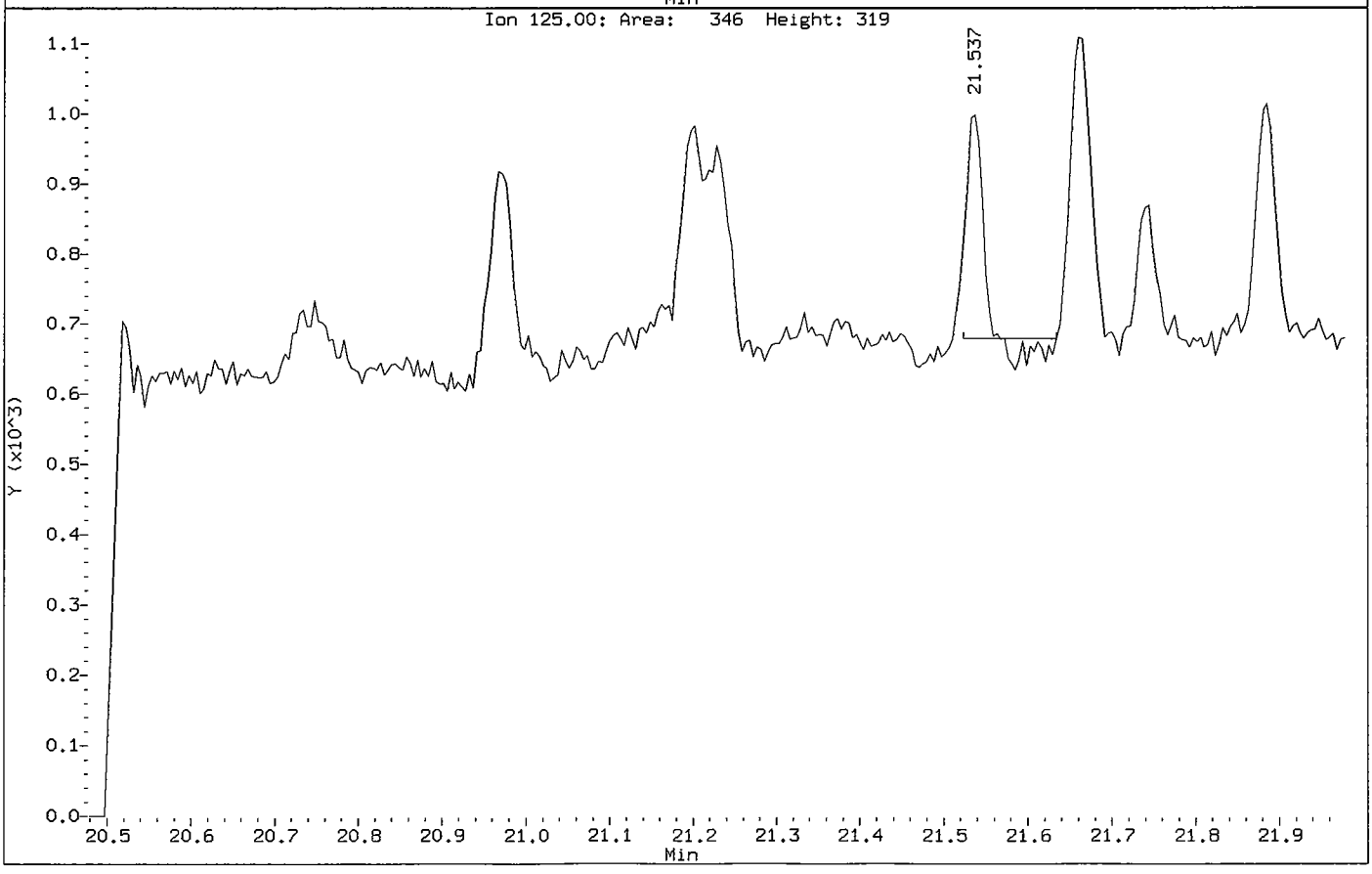


File name: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Client ID: SB48-7-8RE
Instrument ID: 5972hp66.i
Injection Date and Time: 23-JUN-2010 18:36
Retention Time: 21.23
Operator ID: OWS

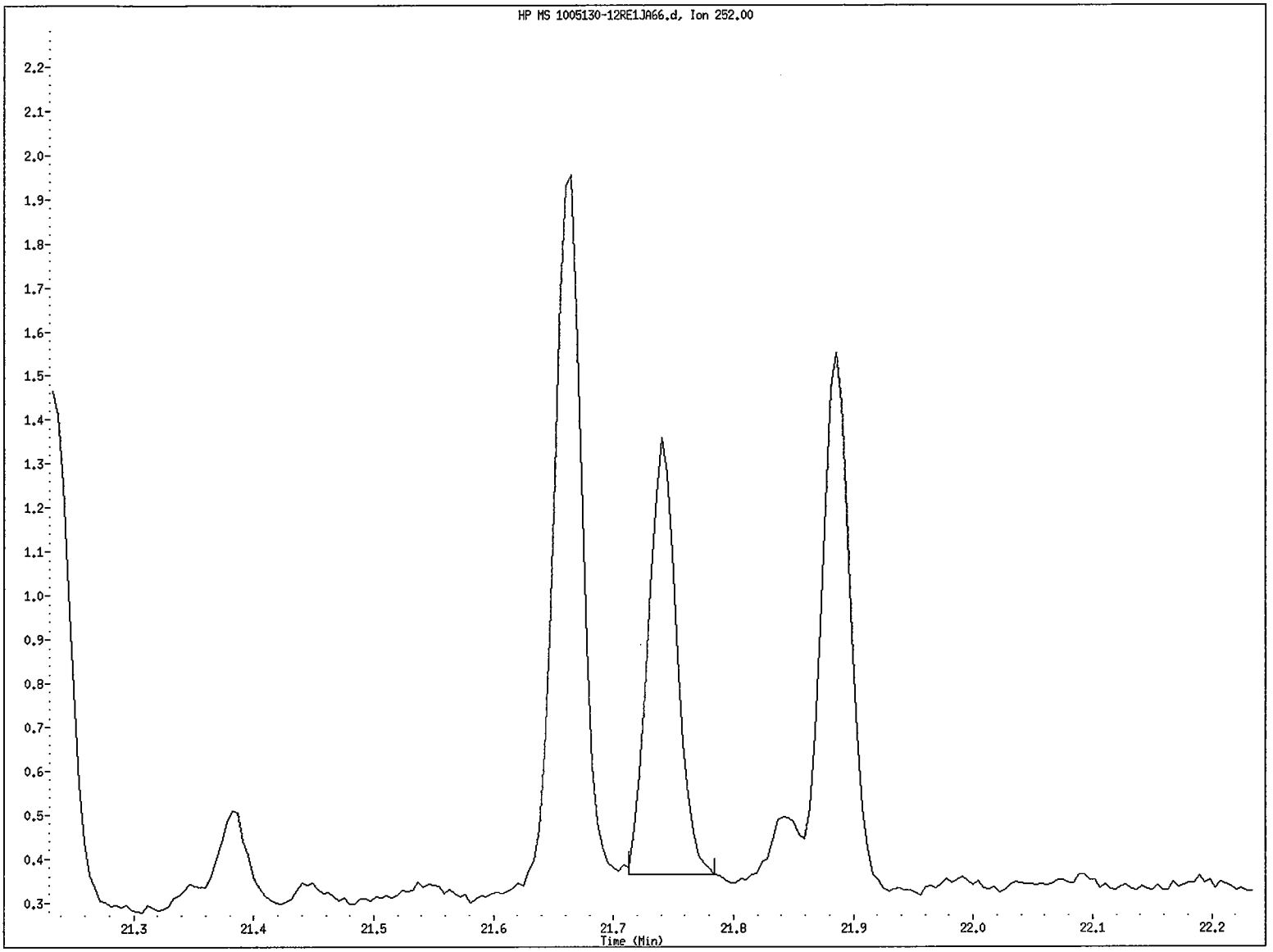
Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Injection Date: 23-JUN-2010 18:36
Instrument: 5972hp66.i
Client Sample ID: SB48-7-8RE

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





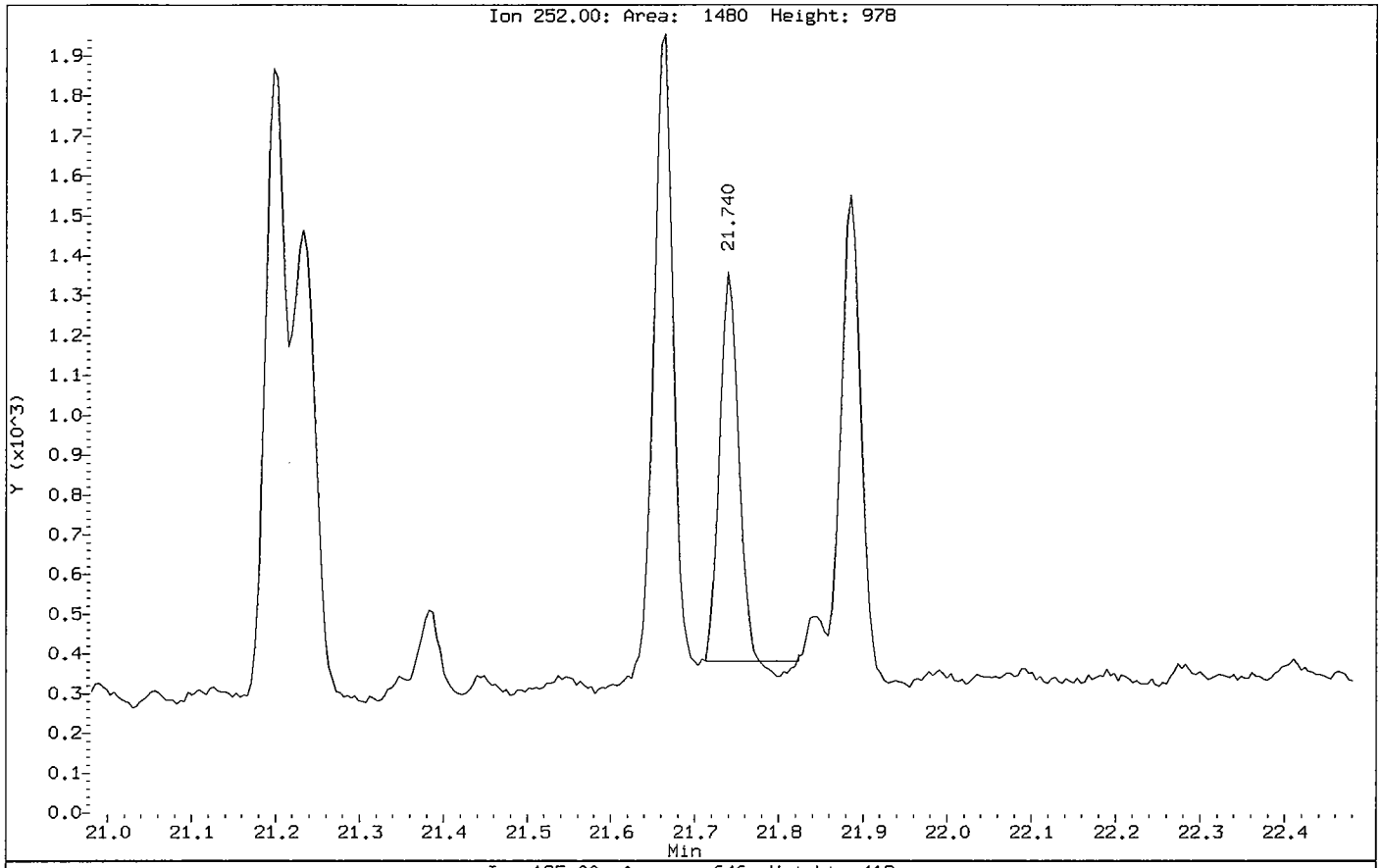
Benzo(a)pyrene CAS Number 50-32-8 Area = 1603 Manually integrated

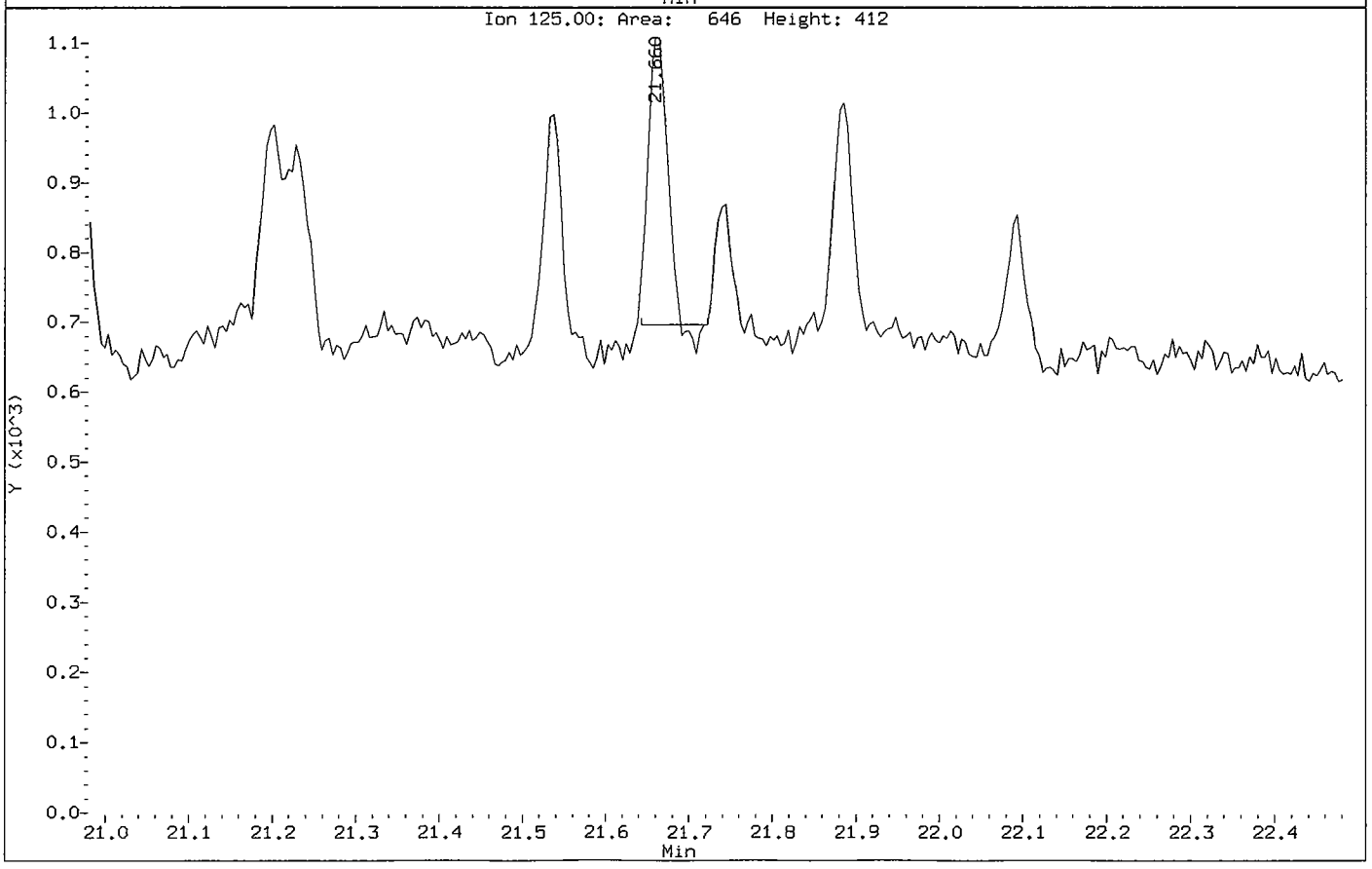


File name: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Client ID: SB48-7-8RE
Instrument ID: 5972hp66.i
Injection Date and Time: 23-JUN-2010 18:36
Retention Time: 21.74
Operator ID: OWS

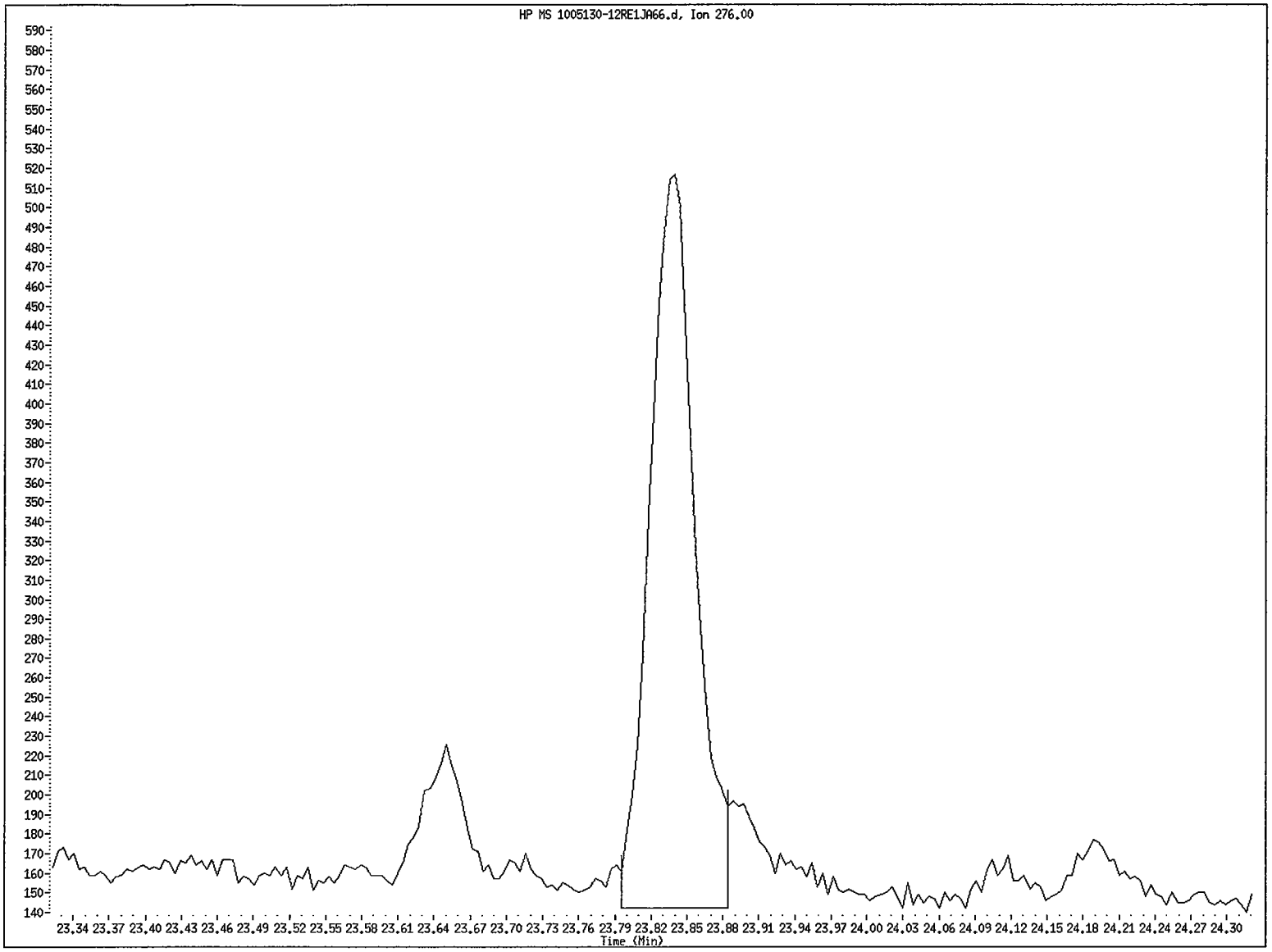
Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Injection Date: 23-JUN-2010 18:36
Instrument: 5972hp66.i
Client Sample ID: SB48-7-8RE

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





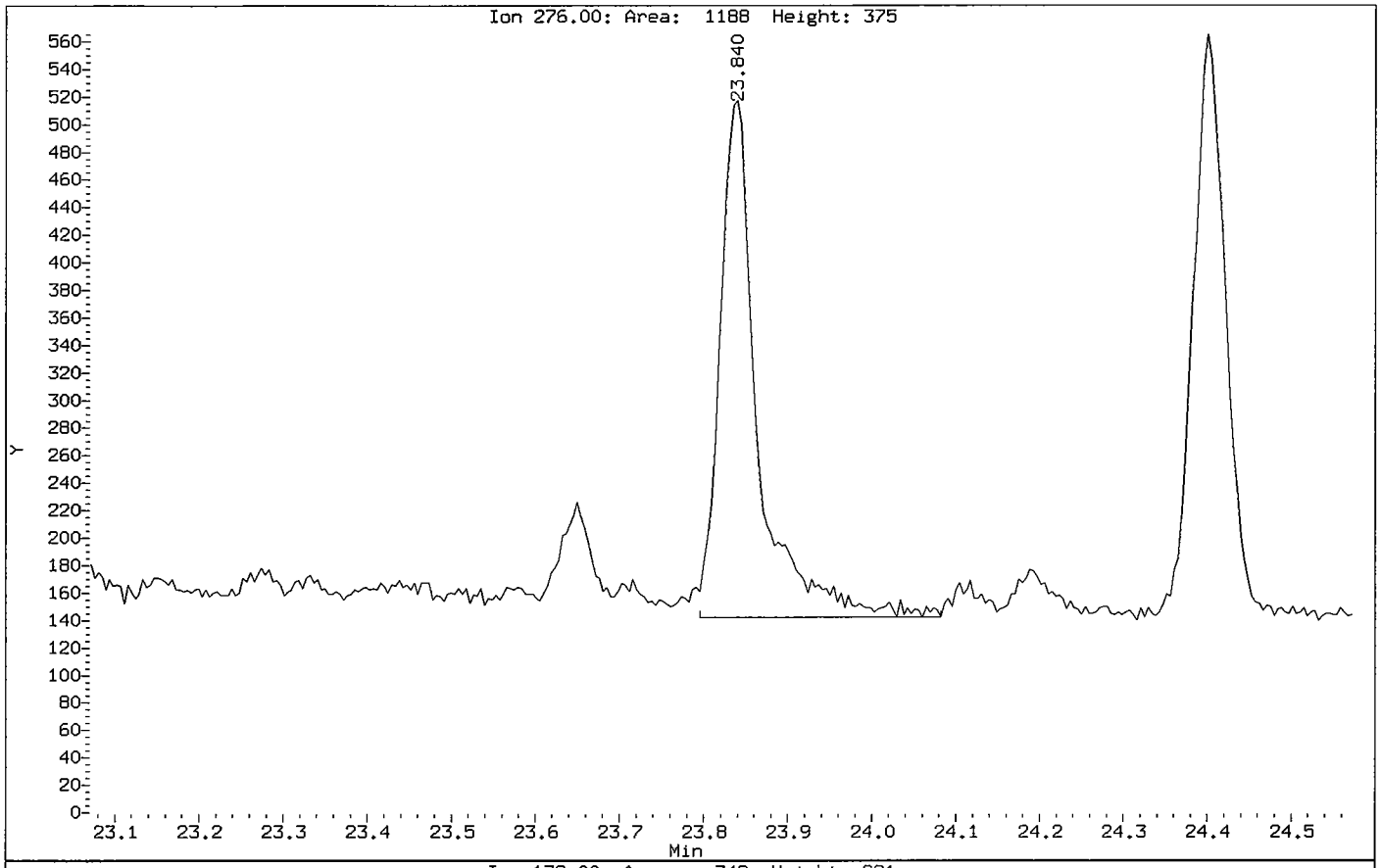
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 999 Manually integrated

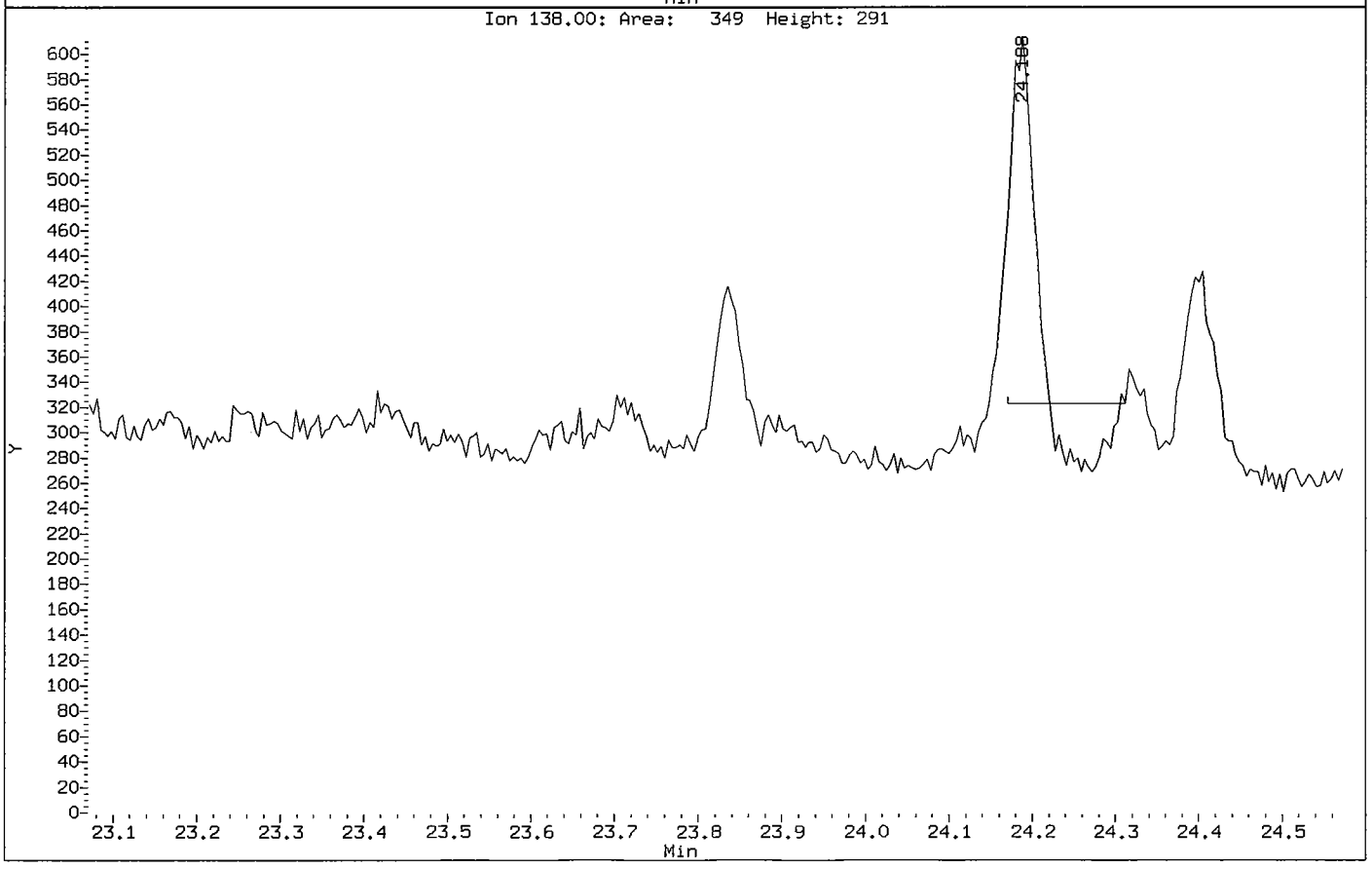


File name: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Client ID: SB48-7-8RE
Instrument ID: 5972hp66.i
Injection Date and Time: 23-JUN-2010 18:36
Retention Time: 23.84
Operator ID: OWS

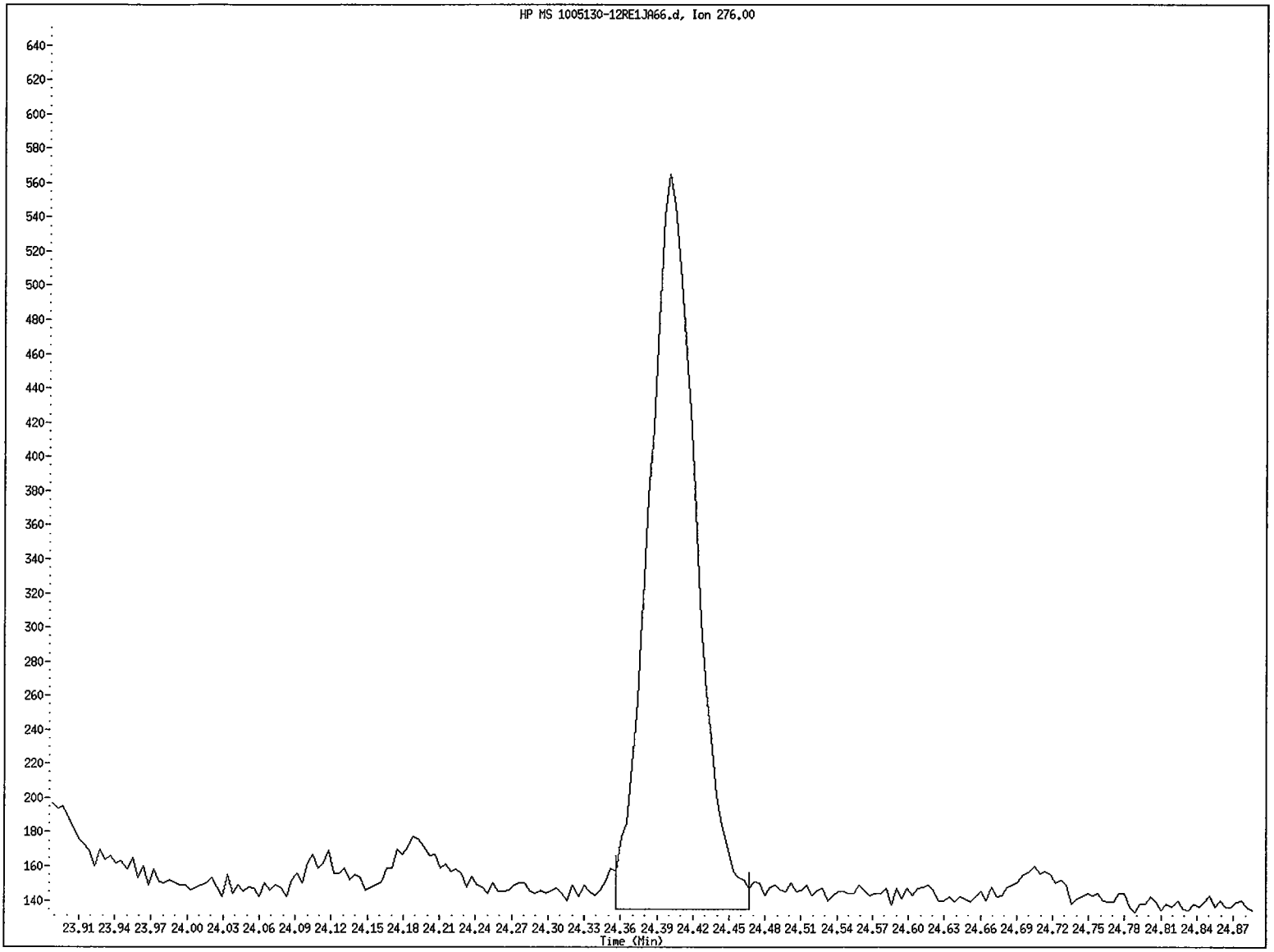
Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Injection Date: 23-JUN-2010 18:36
Instrument: 5972hp66.i
Client Sample ID: SB48-7-8RE

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





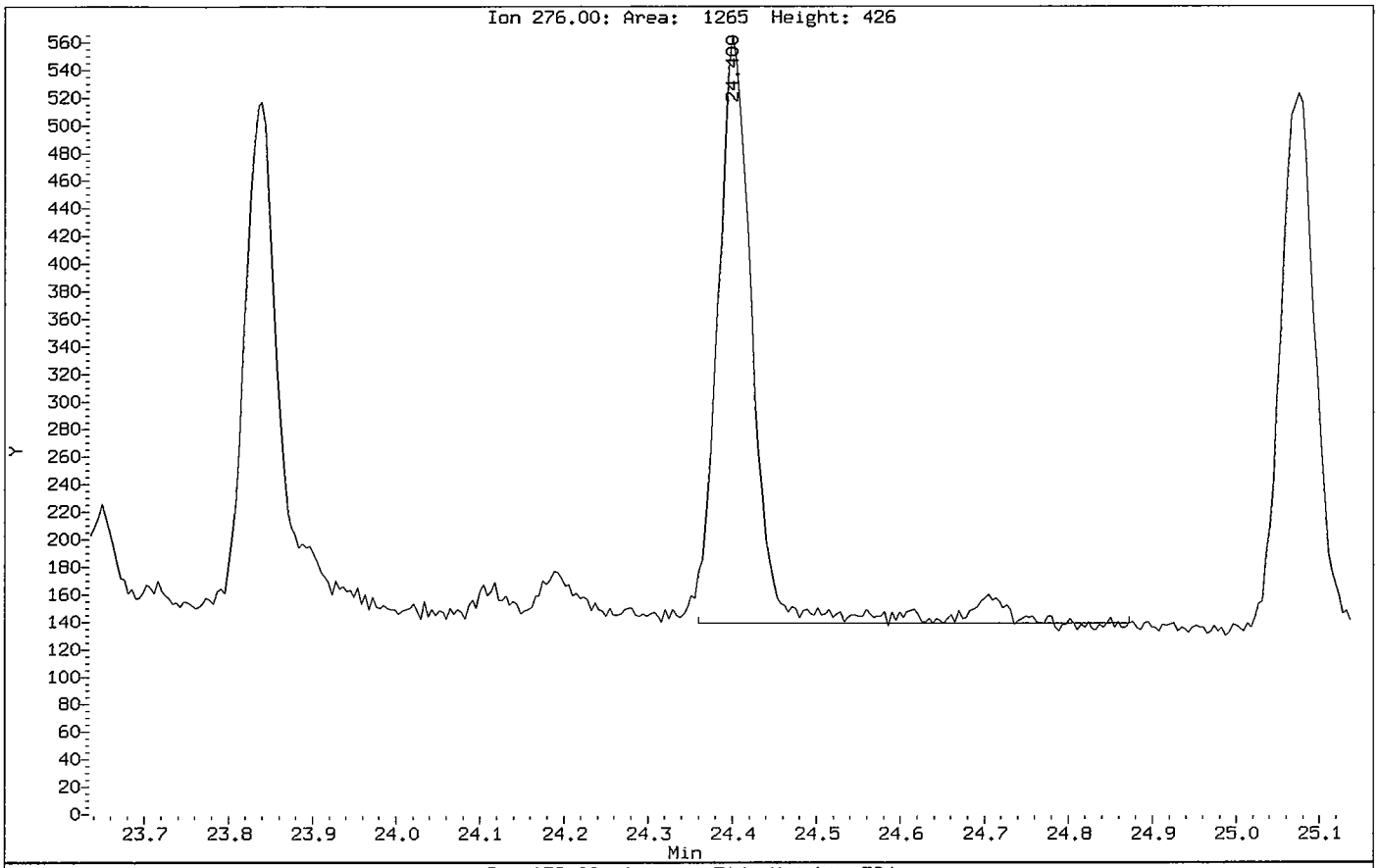
Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 1182 Manually integrated

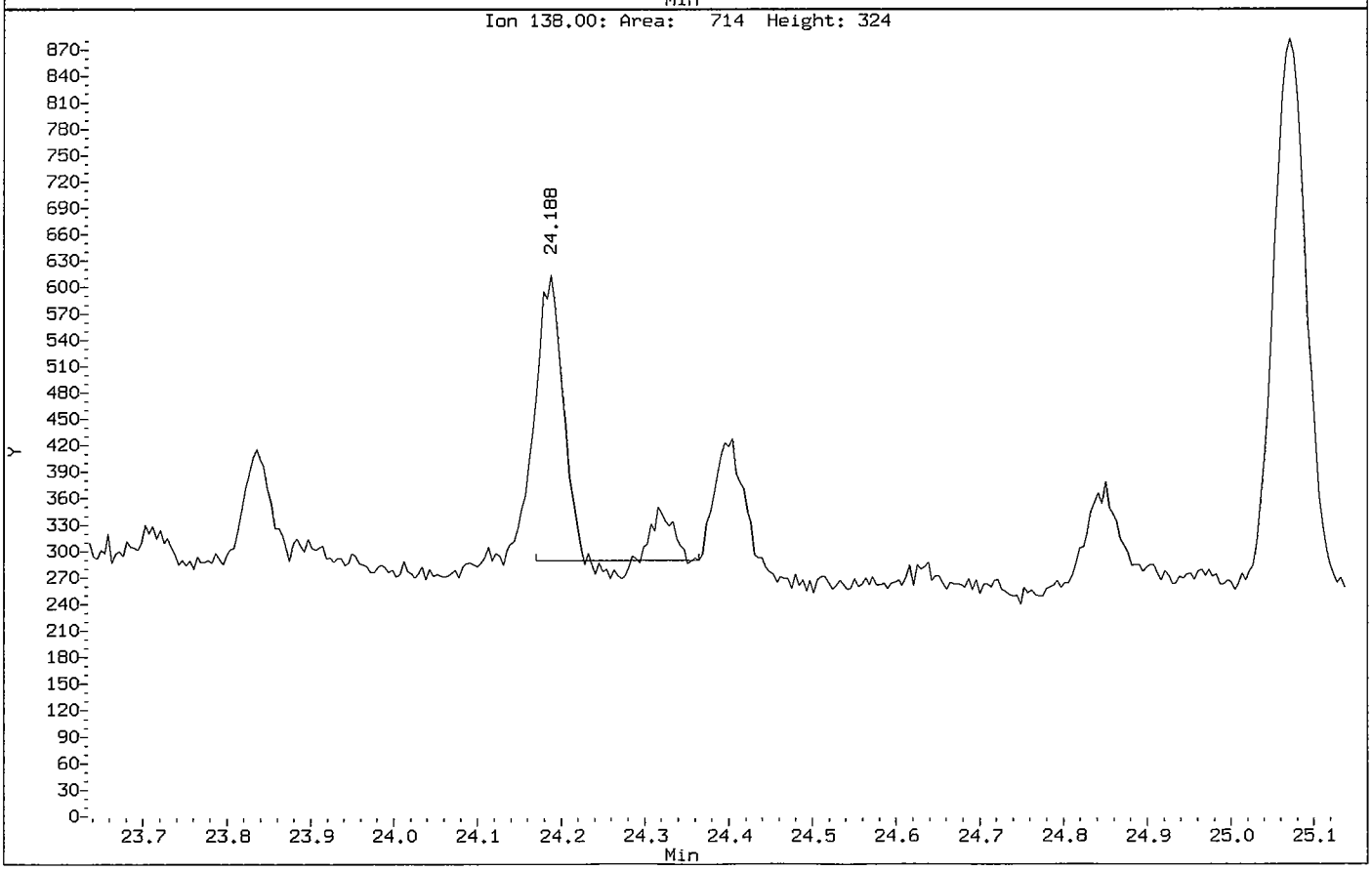


File name: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Client ID: SB48-7-8RE
Instrument ID: 5972hp66.i
Injection Date and Time: 23-JUN-2010 18:36
Retention Time: 24.40
Operator ID: OWS

Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d
Injection Date: 23-JUN-2010 18:36
Instrument: 5972hp66.i
Client Sample ID: SB48-7-8RE

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

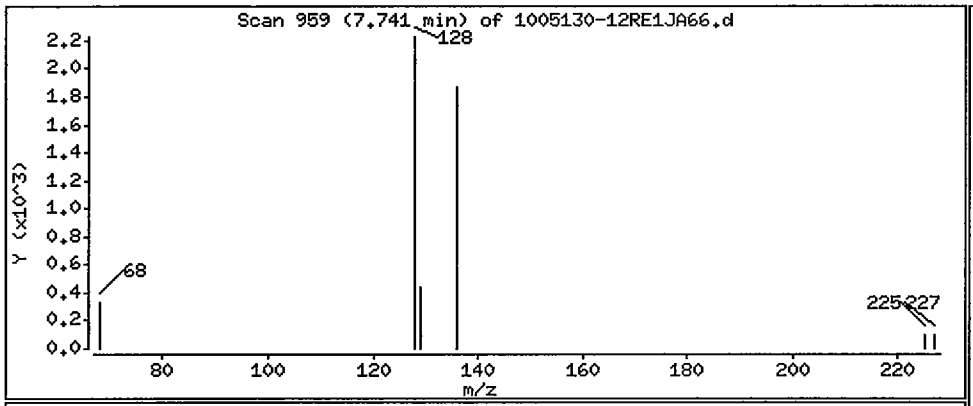
Operator: OWS

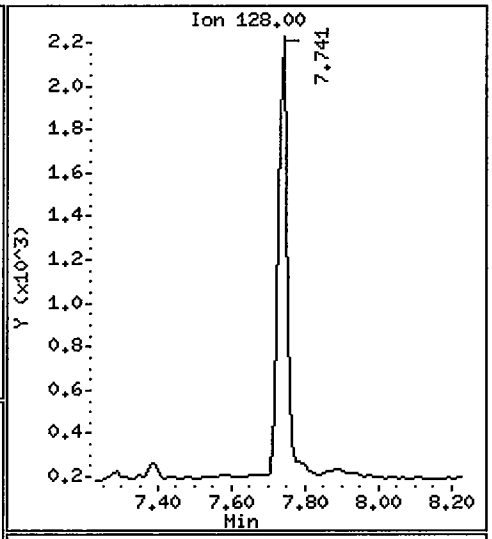
Column phase: Rtx-5MS

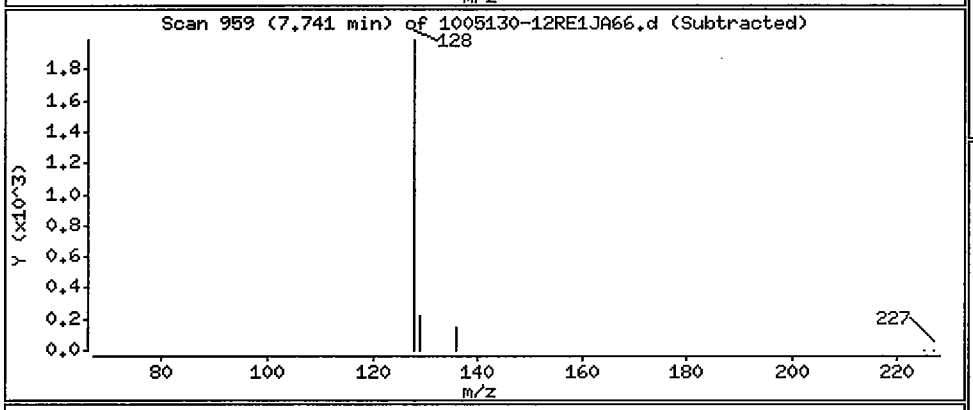
Column diameter: 0.32

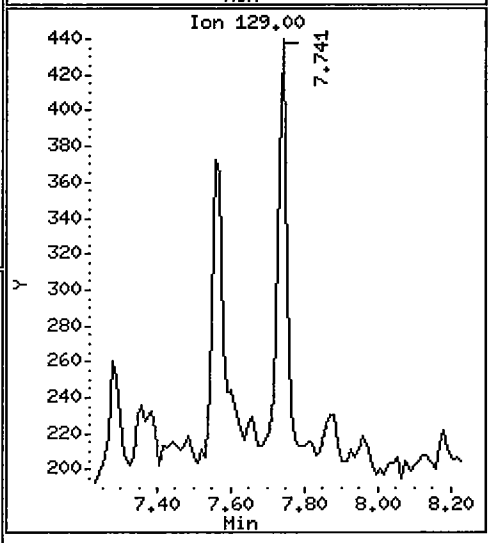
13 Naphthalene

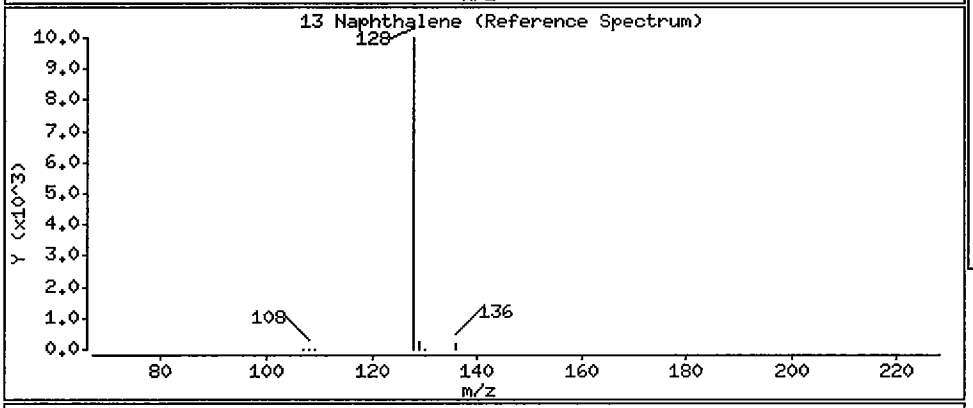
Concentration: 1.8 ug/Kg

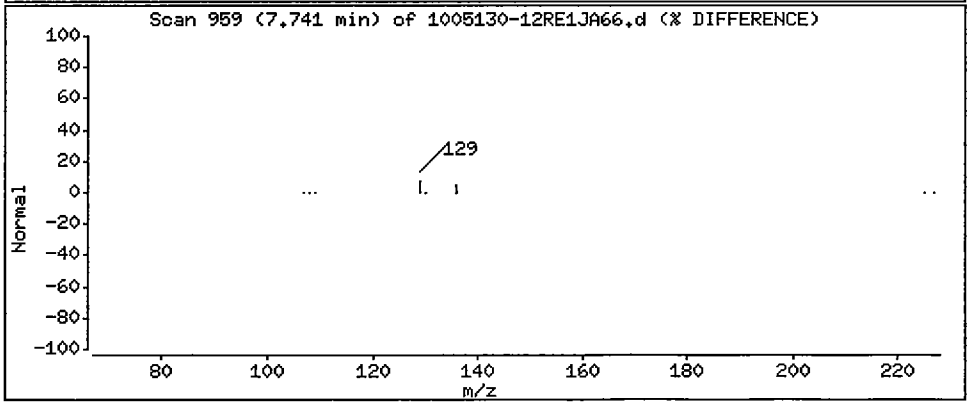












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

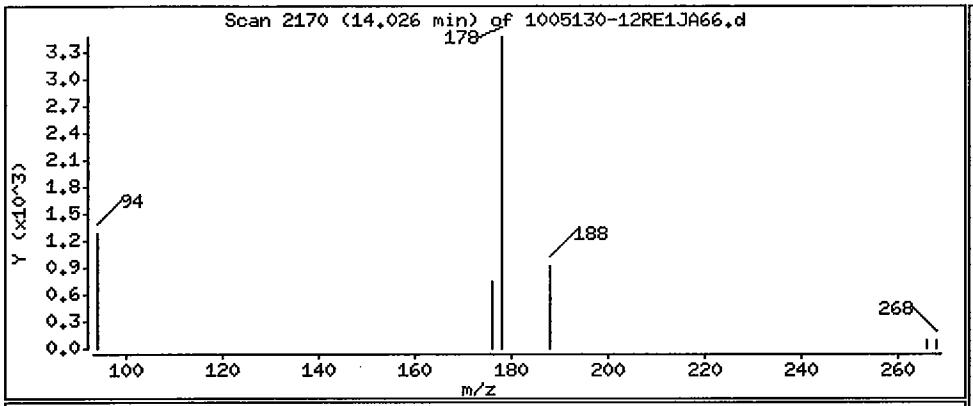
Operator: OWS

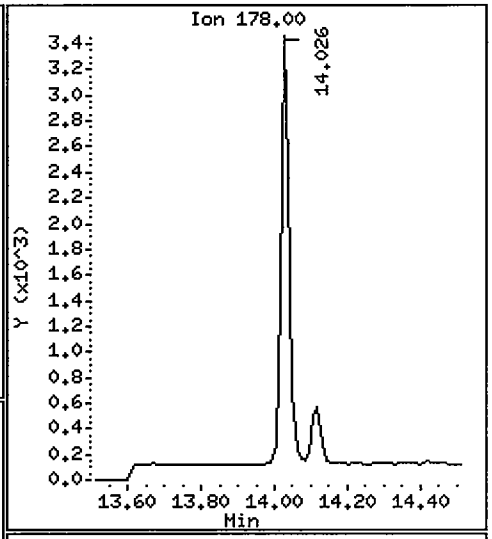
Column phase: Rtx-5MS

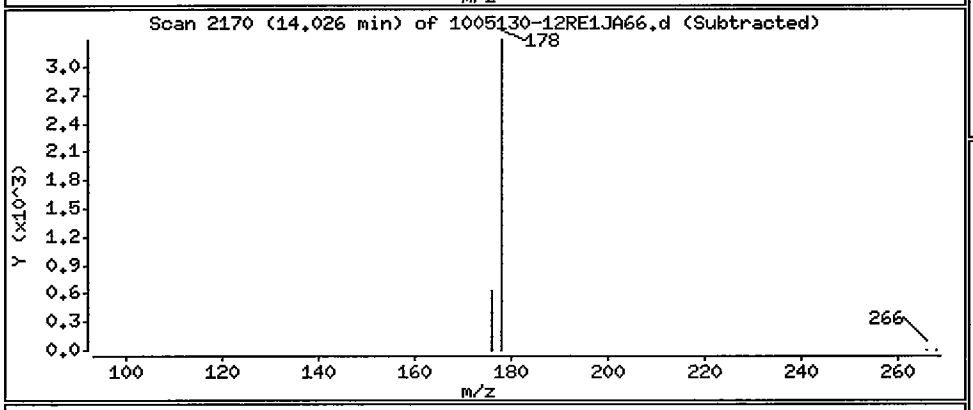
Column diameter: 0.32

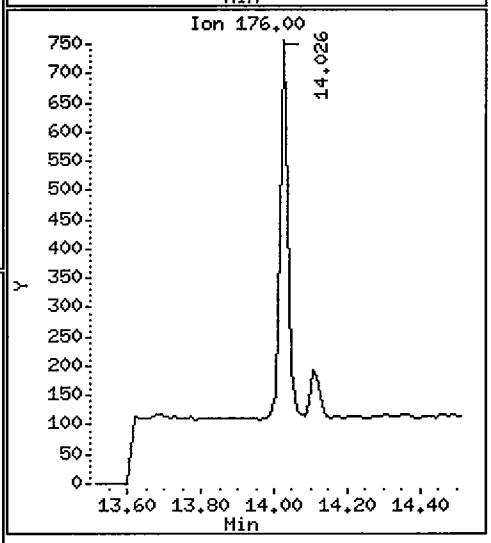
25 Phenanthrene

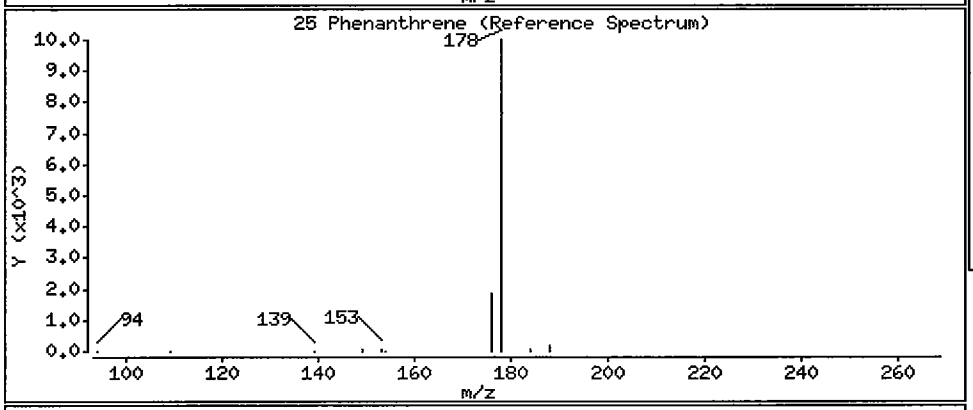
Concentration: 3.0 ug/Kg

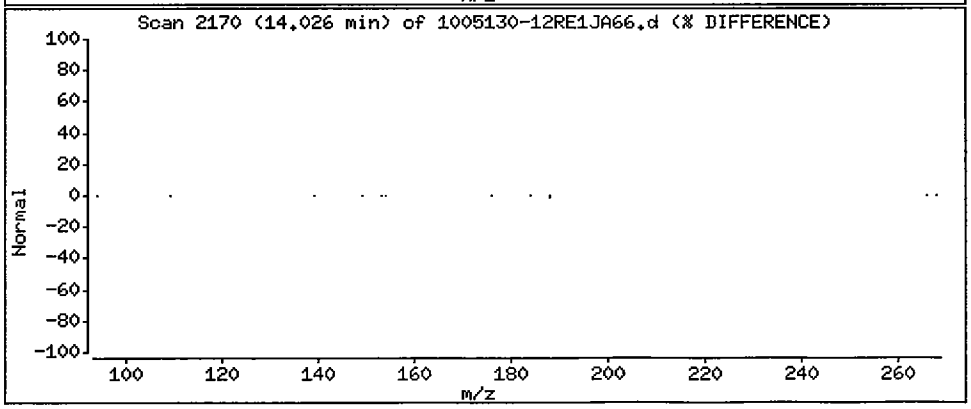












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

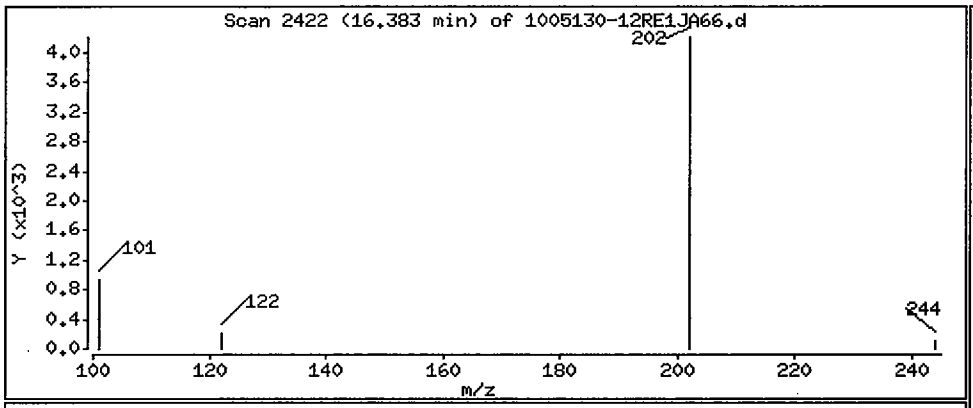
Operator: OWS

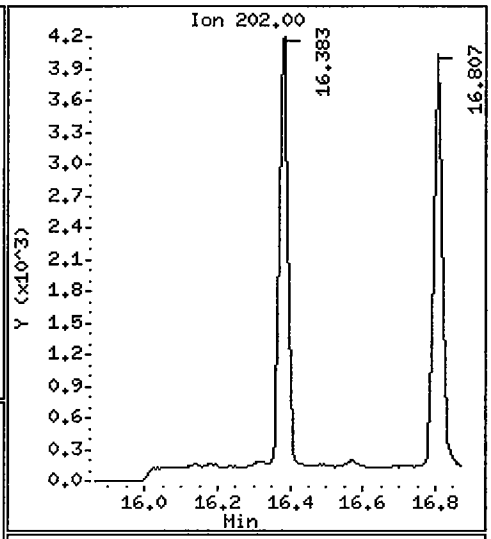
Column phase: Rtx-5MS

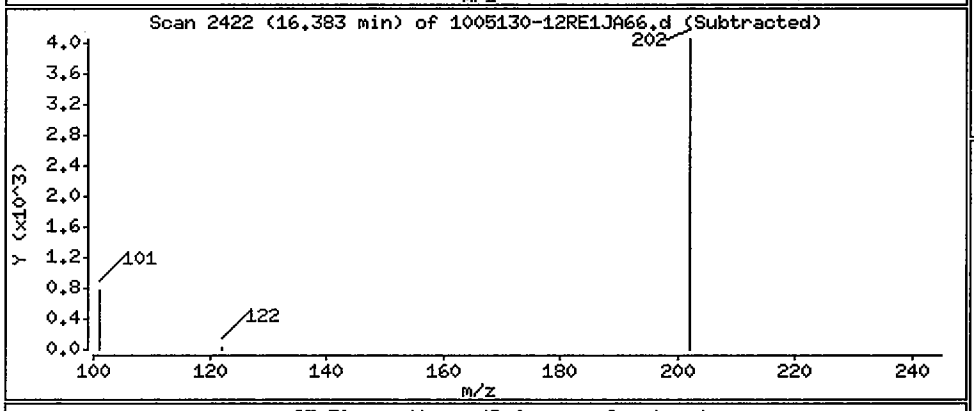
Column diameter: 0.32

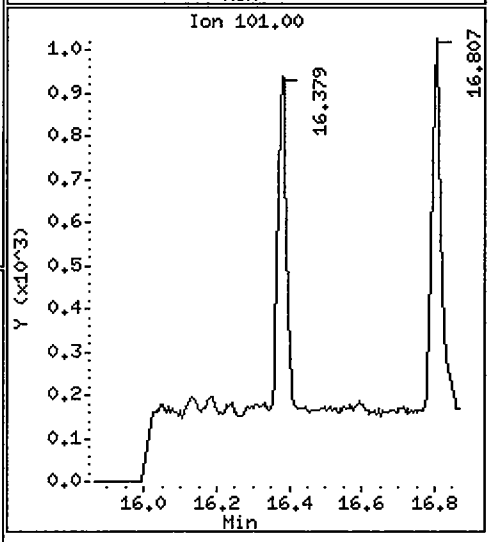
27 Fluoranthene

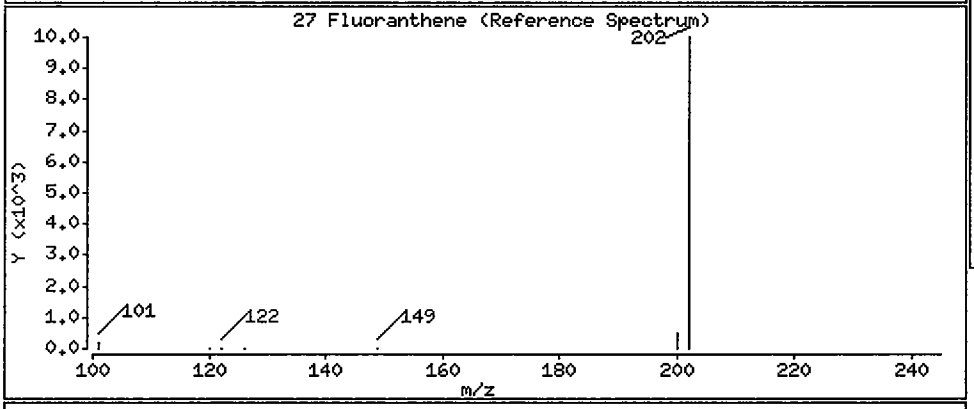
Concentration: 3.9 ug/Kg

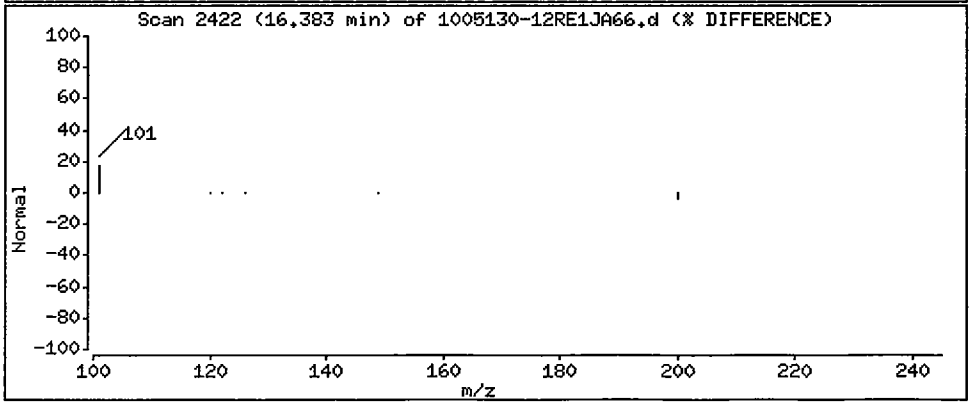












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

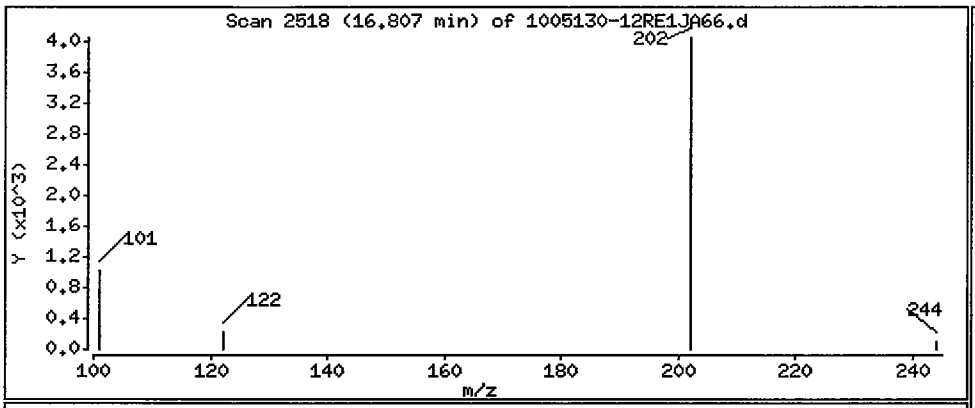
Operator: OWS

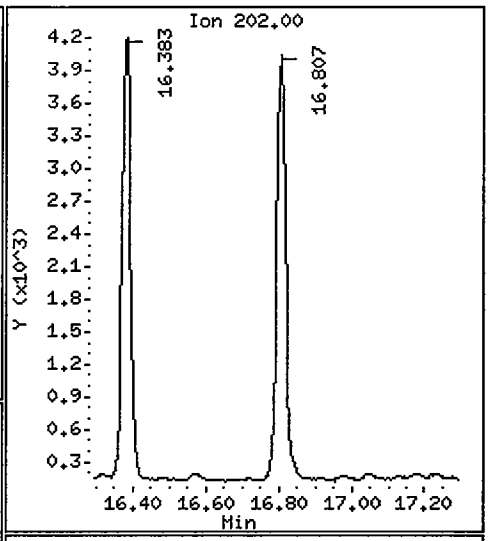
Column phase: Rtx-5MS

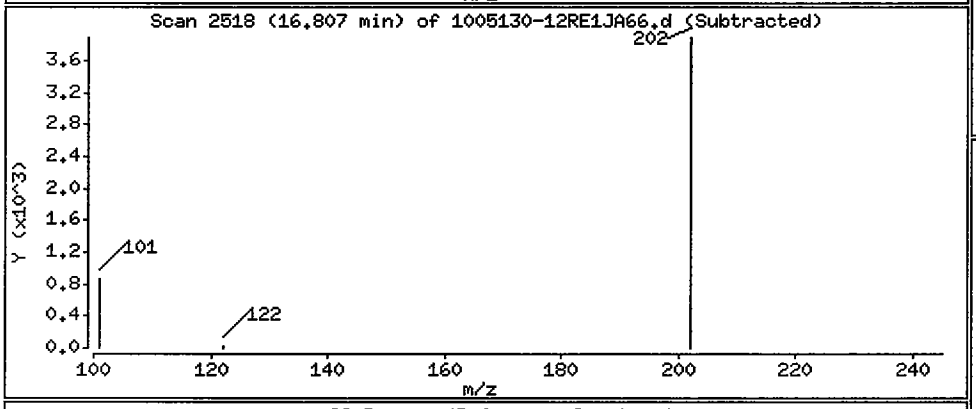
Column diameter: 0.32

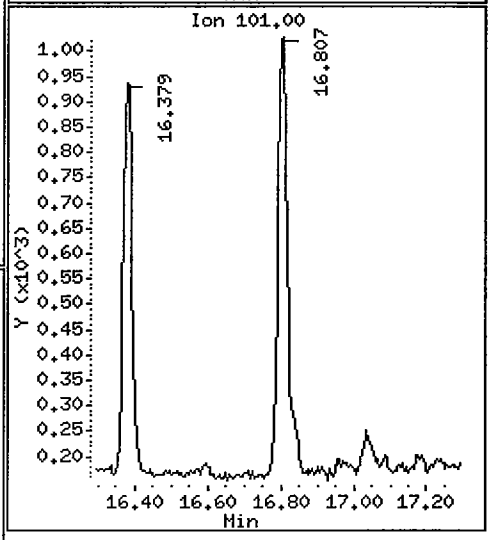
28 Pyrene

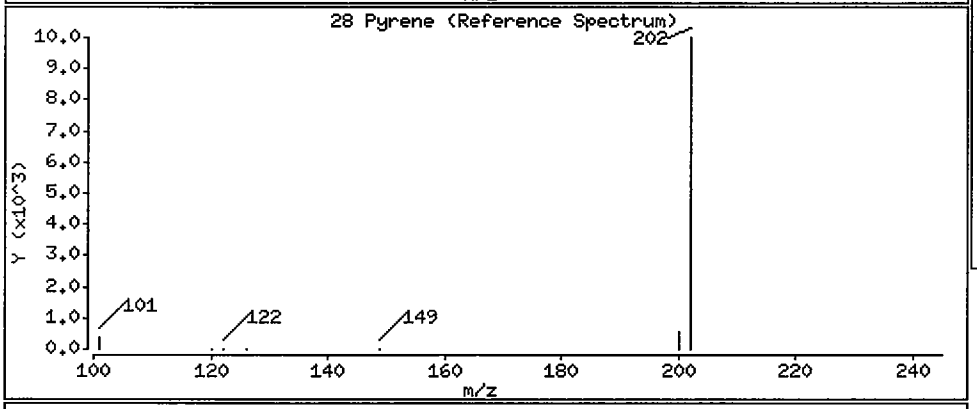
Concentration: 2.9 ug/Kg

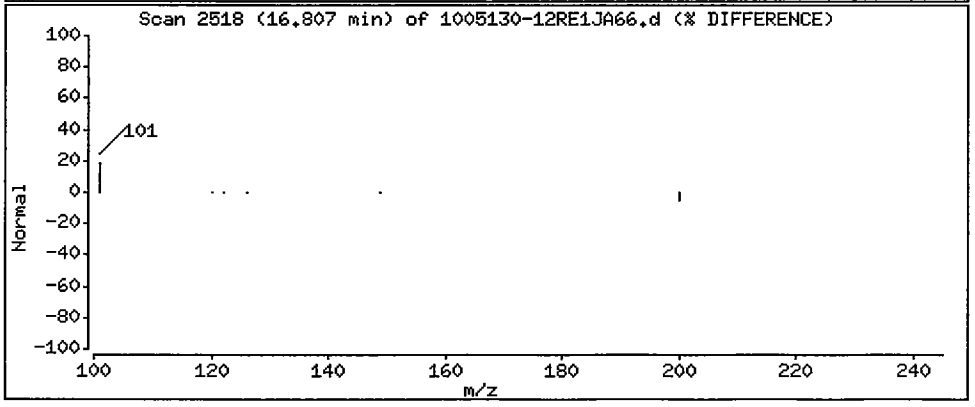












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

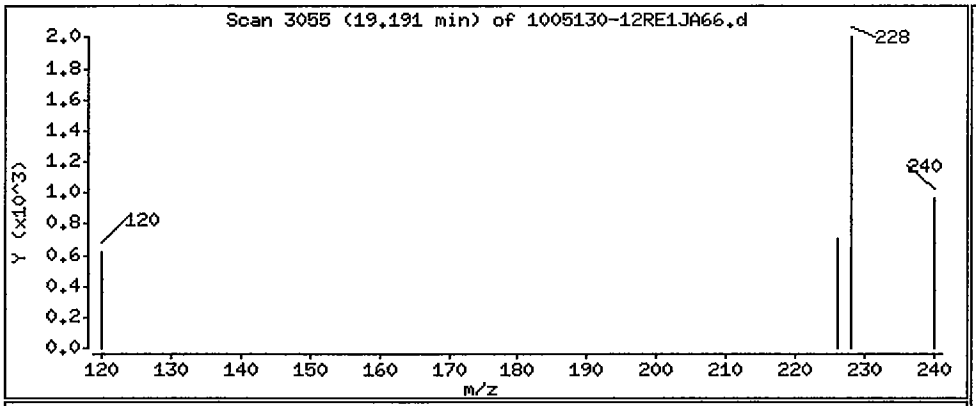
Operator: OWS

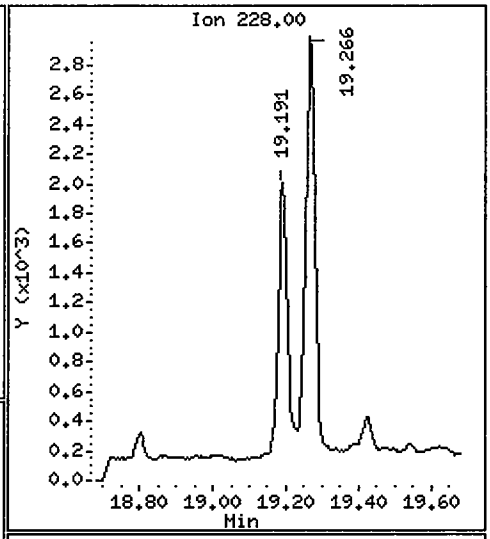
Column phase: Rtx-5MS

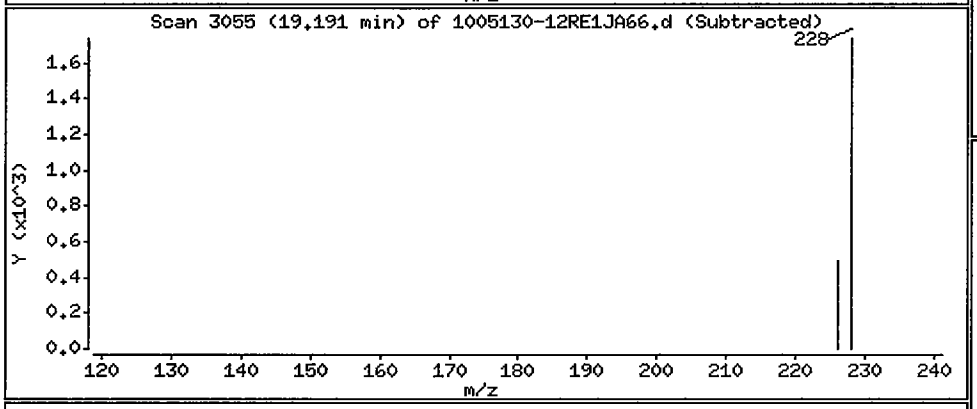
Column diameter: 0.32

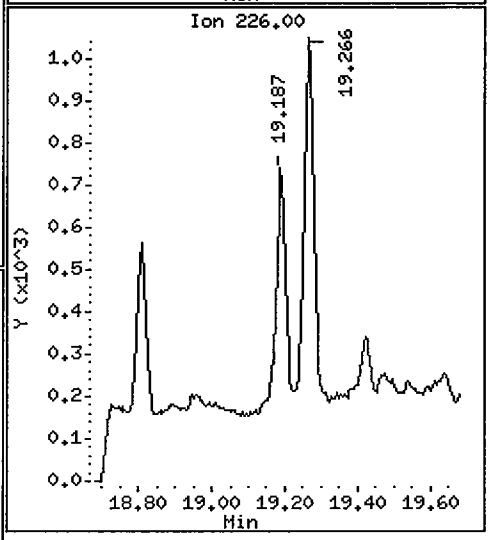
29 Benzo(a)anthracene

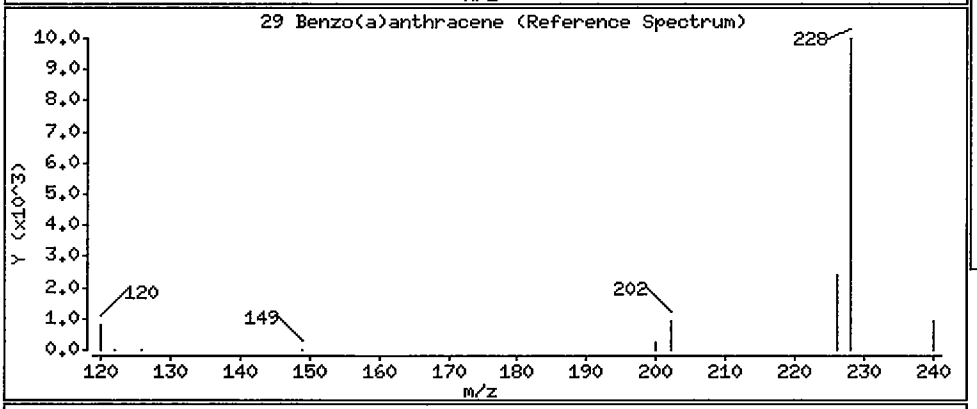
Concentration: 1.8 ug/Kg

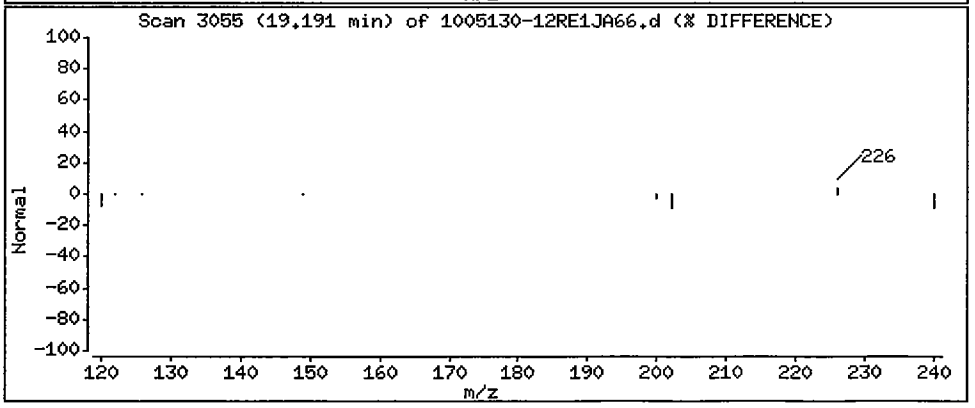












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

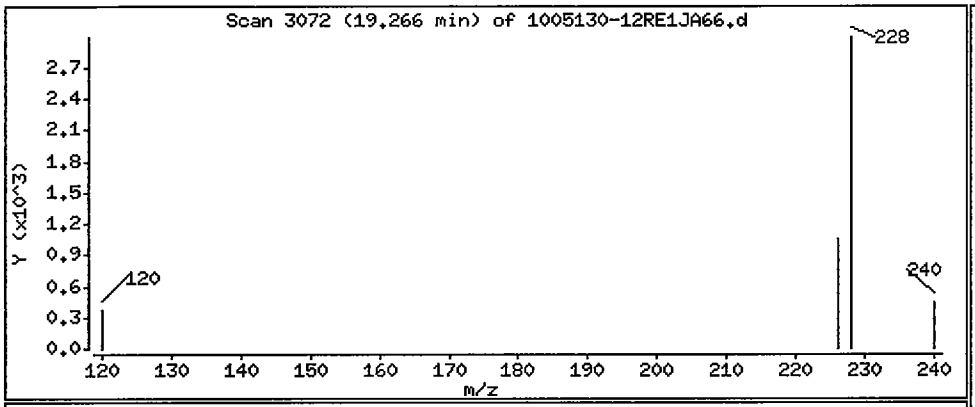
Operator: OWS

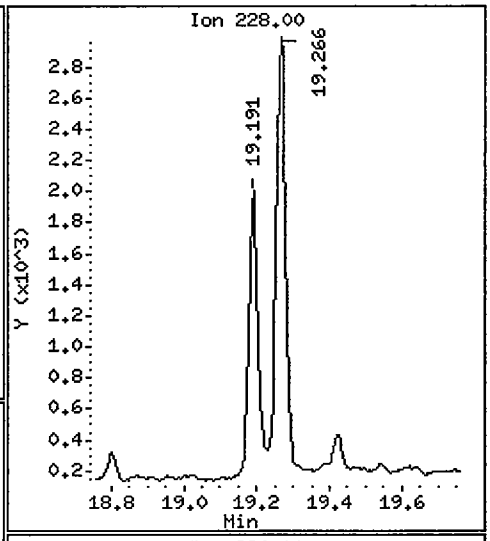
Column phase: Rtx-5MS

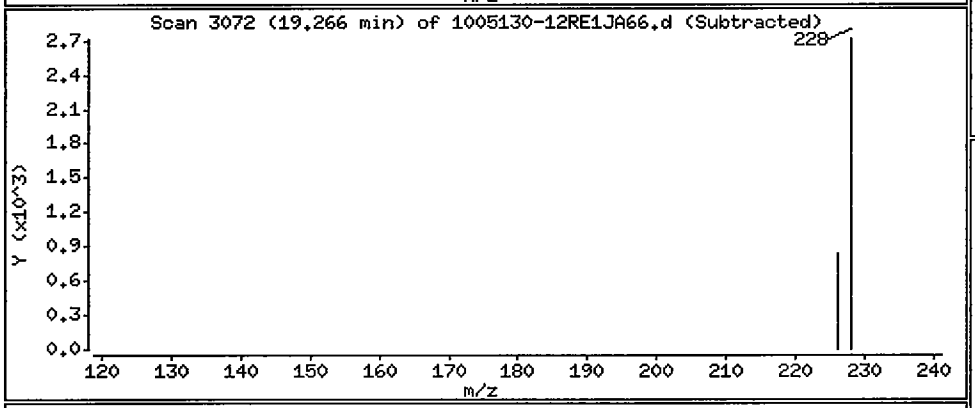
Column diameter: 0.32

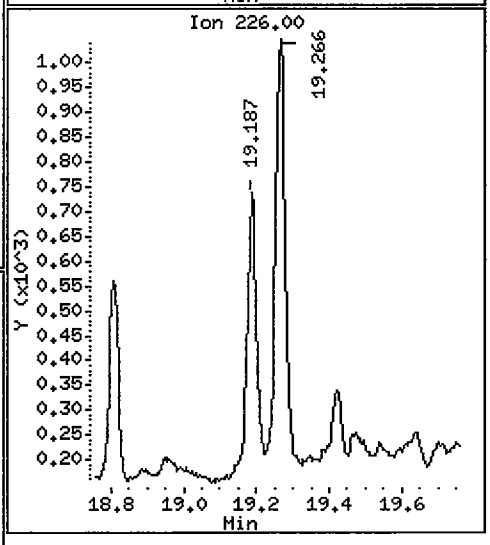
30 Chrysene

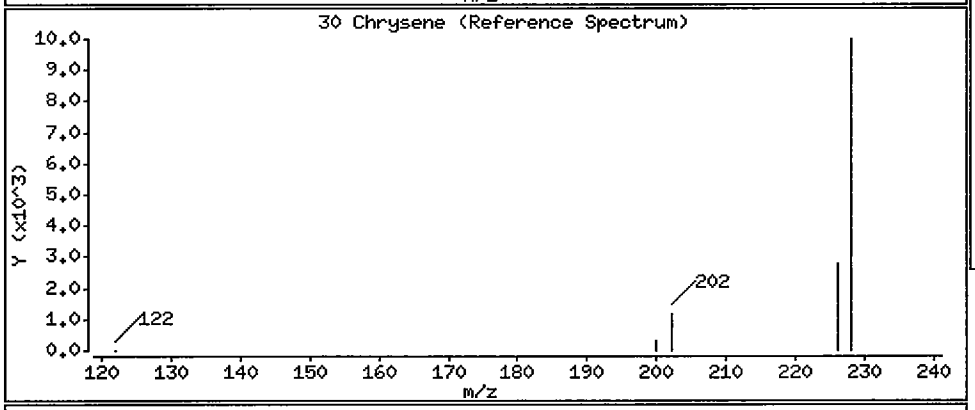
Concentration: 2.8 ug/Kg

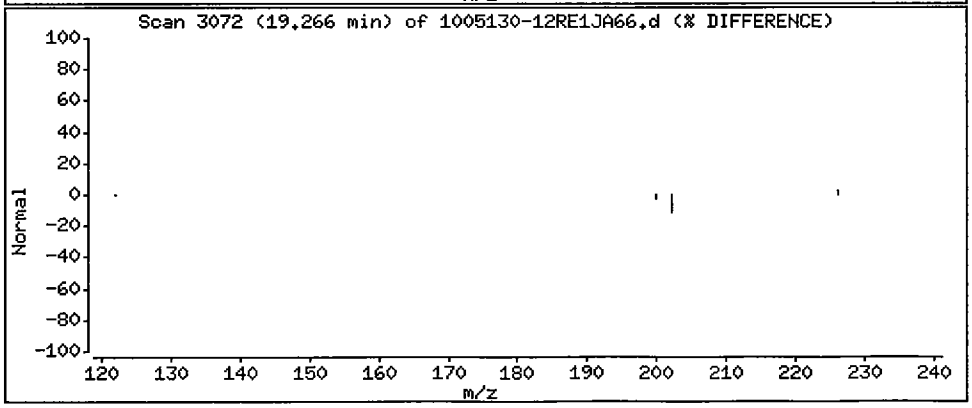












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

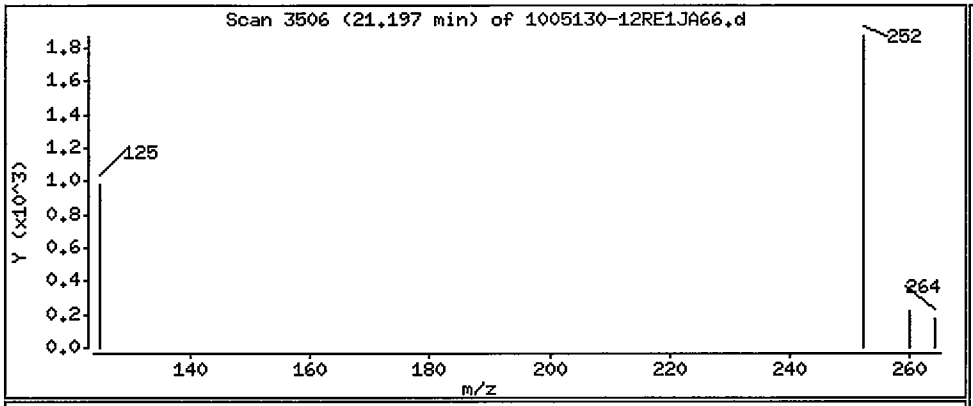
Operator: OWS

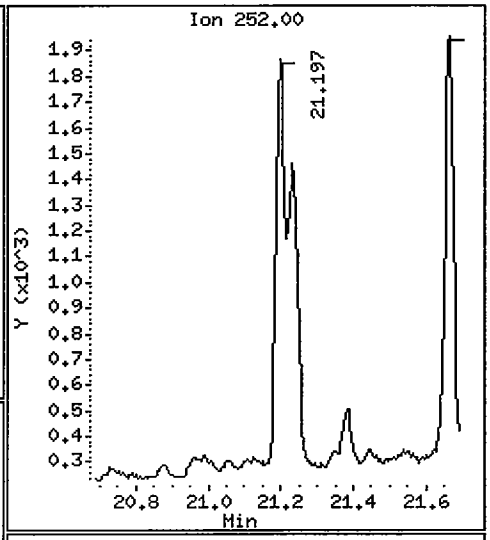
Column phase: Rtx-5MS

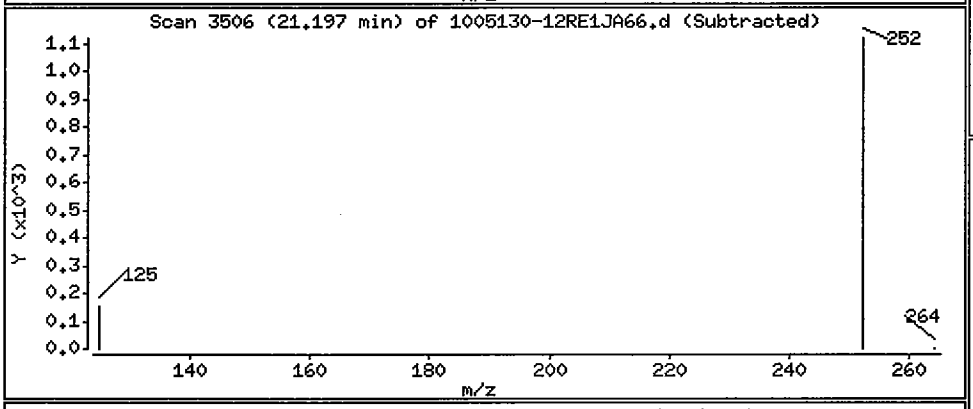
Column diameter: 0.32

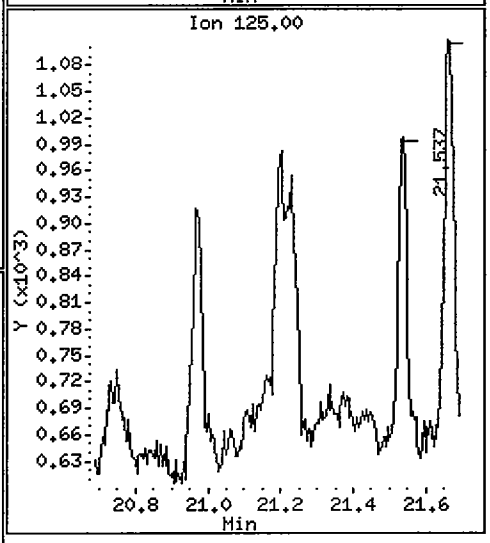
31 Benzo(b)fluoranthene

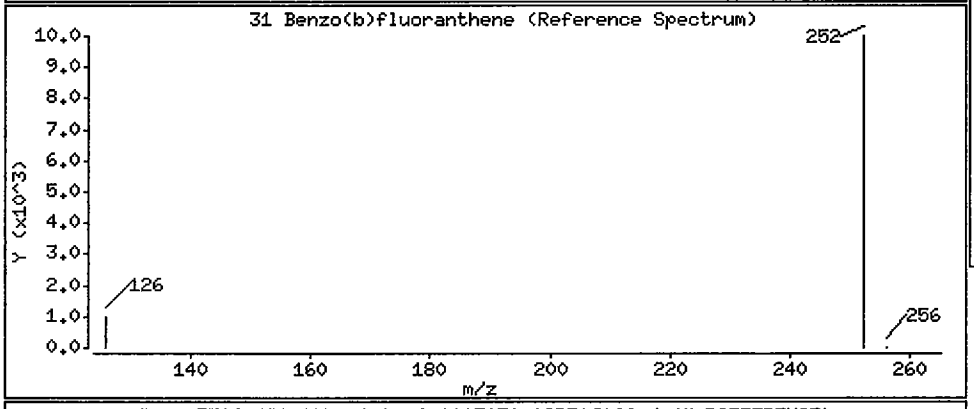
Concentration: 1.3 ug/Kg

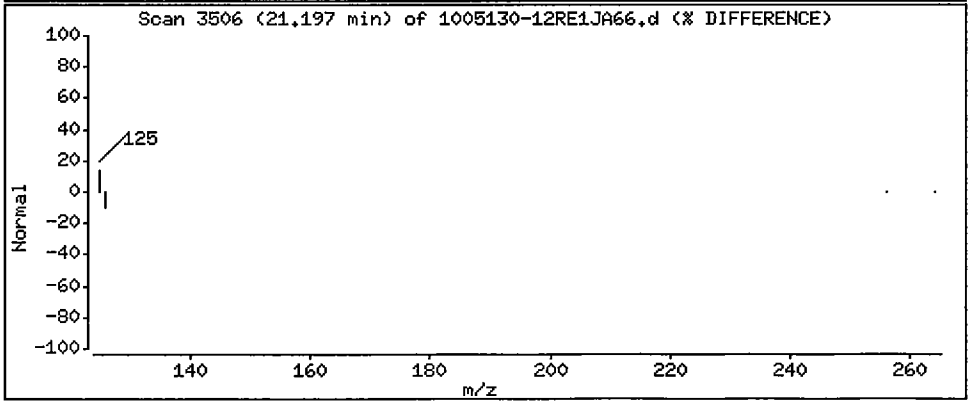












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

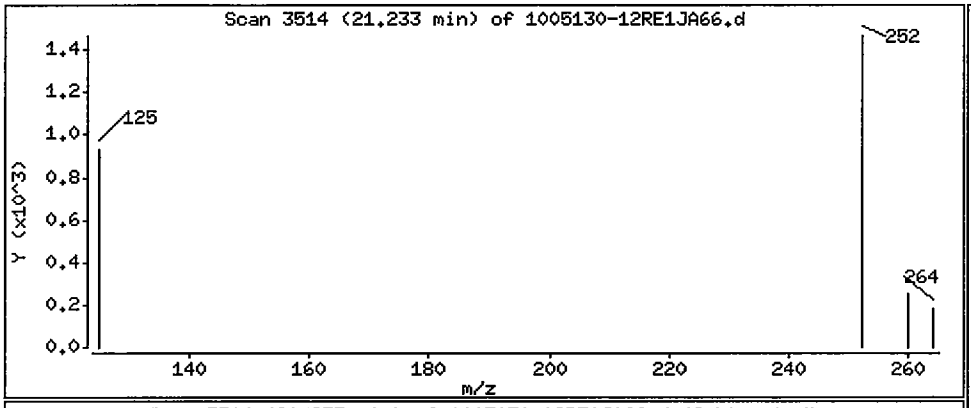
Operator: OWS

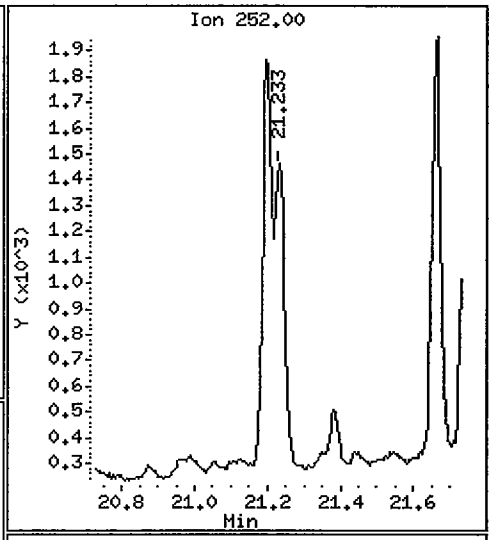
Column phase: Rtx-5MS

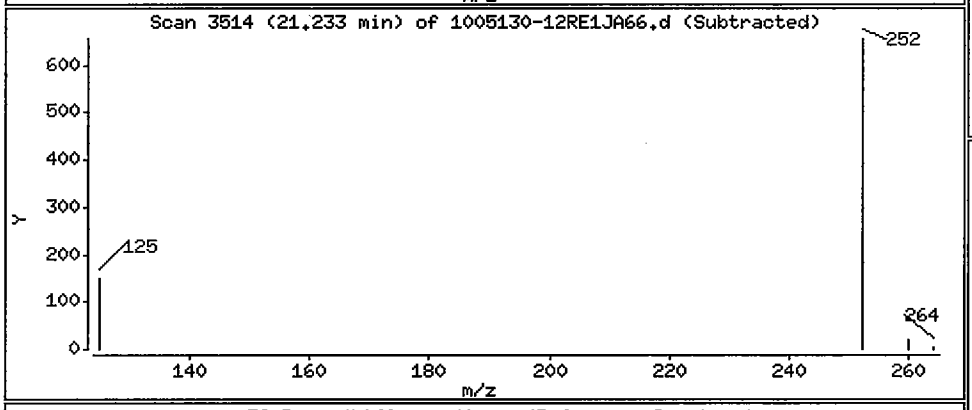
Column diameter: 0.32

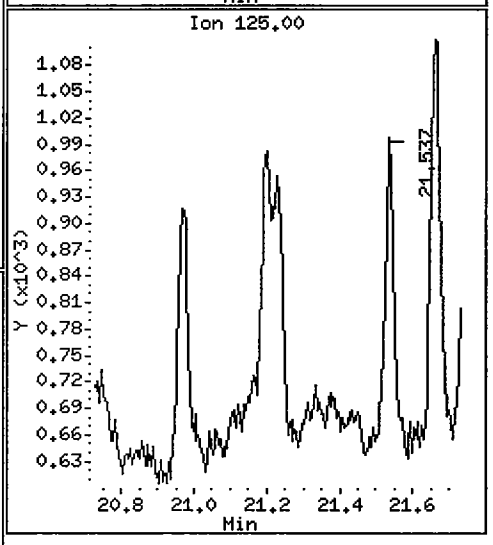
32 Benzo(k)fluoranthene

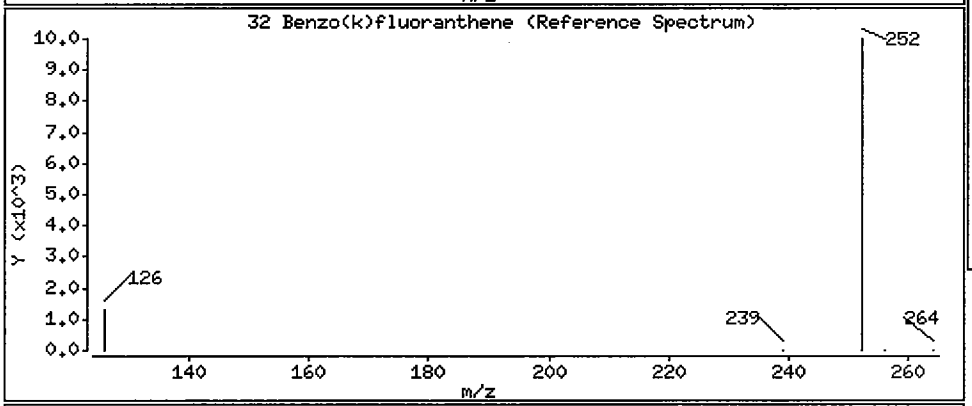
Concentration: 1.1 ug/Kg

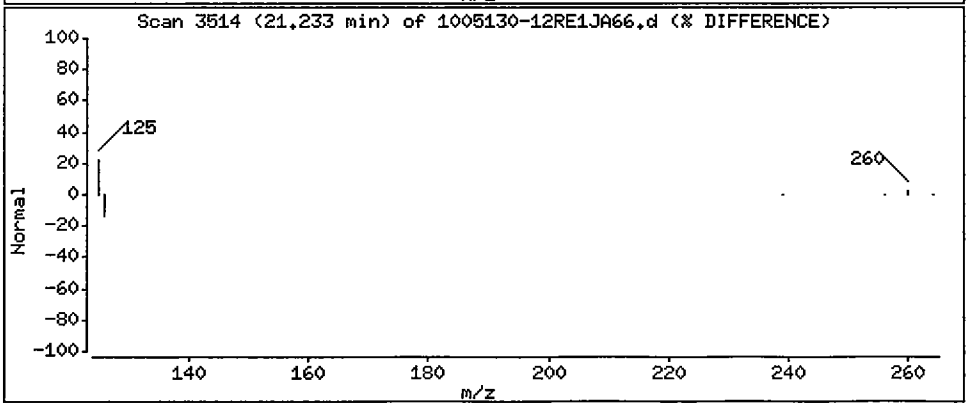












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

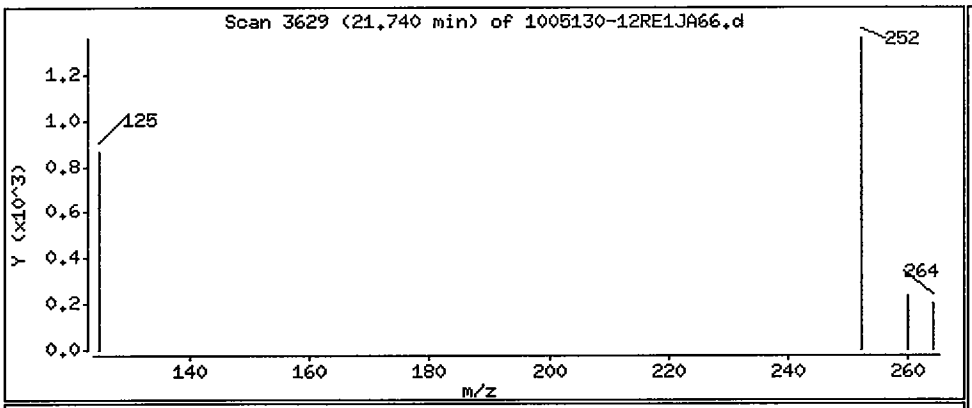
Operator: OWS

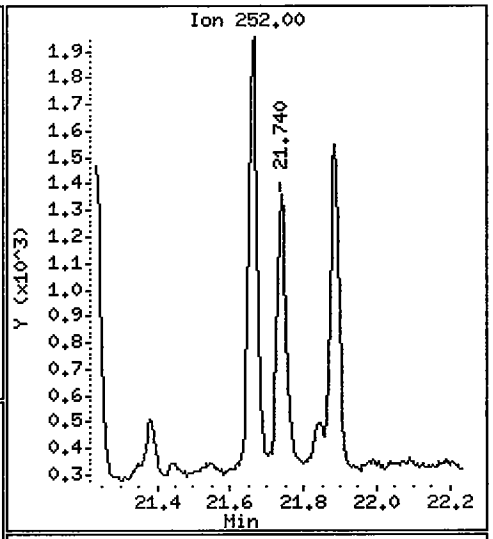
Column phase: Rtx-5MS

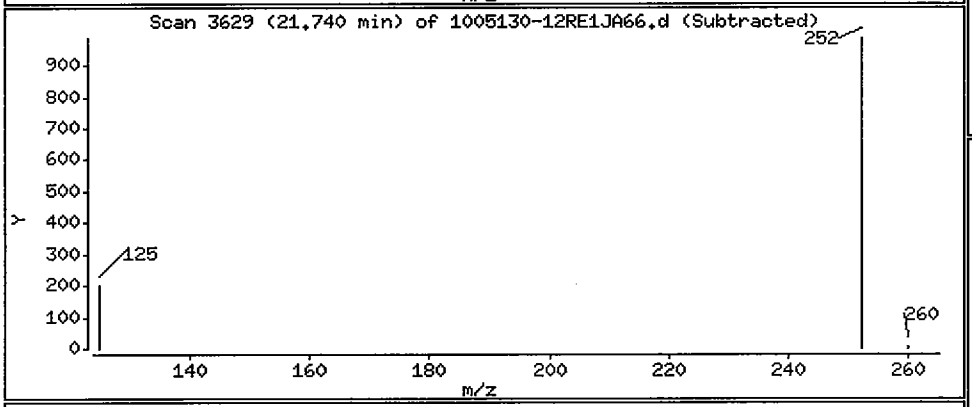
Column diameter: 0.32

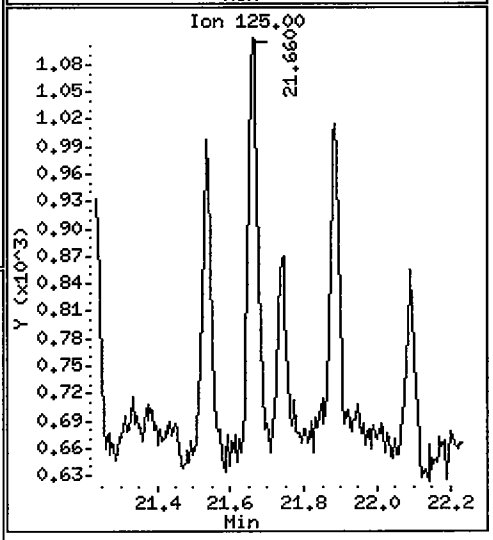
33 Benzo(a)pyrene

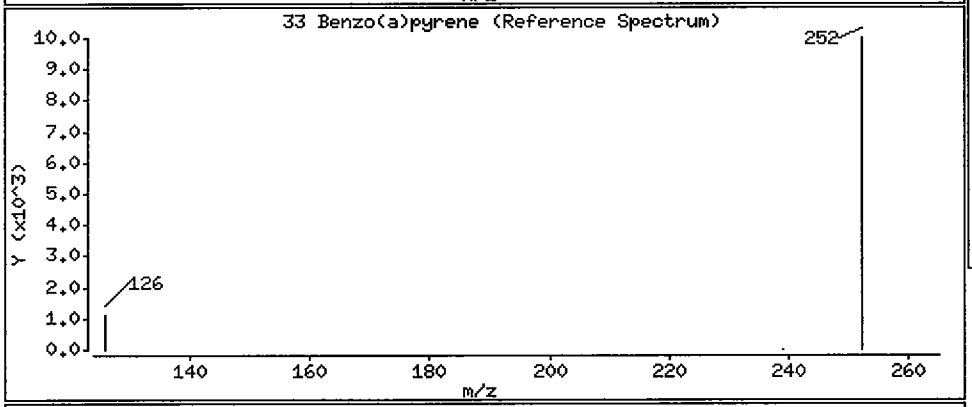
Concentration: 0.86 ug/Kg

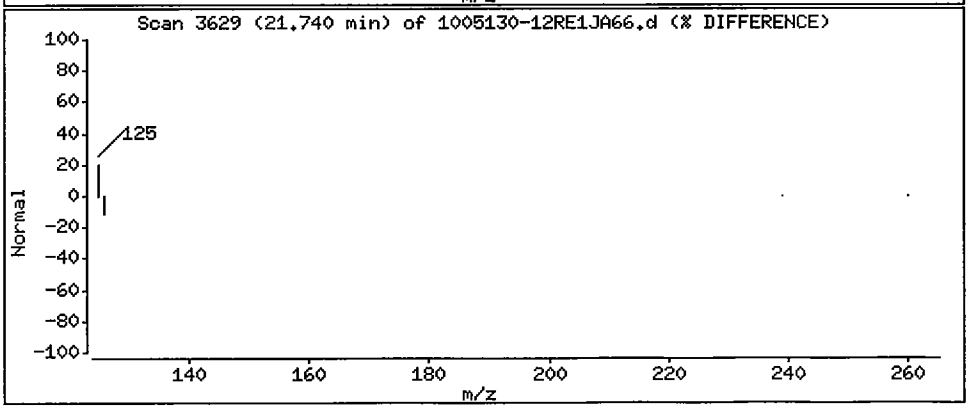












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

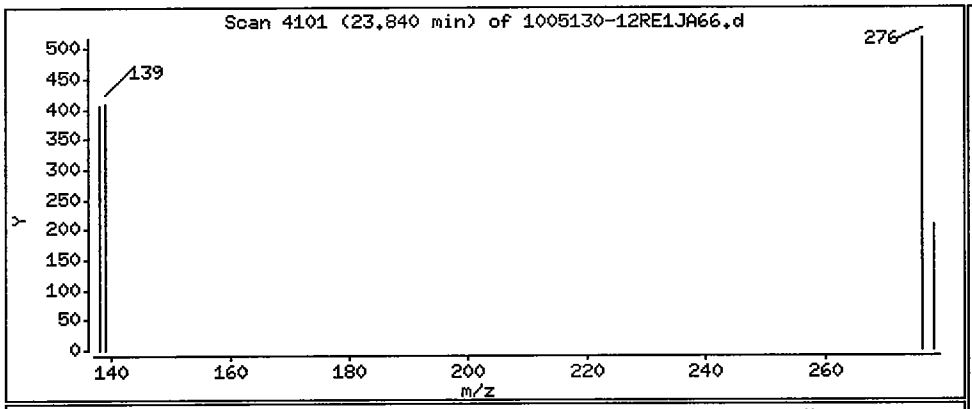
Operator: OWS

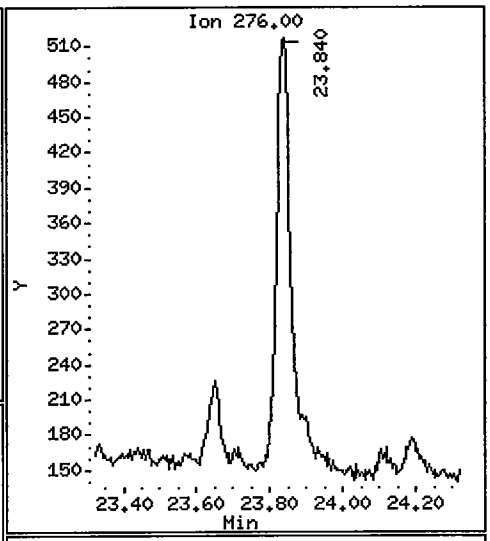
Column phase: Rtx-5MS

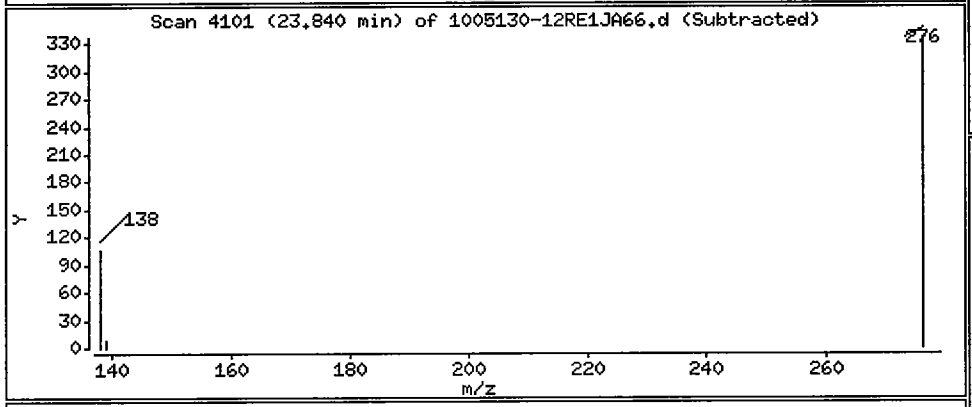
Column diameter: 0.32

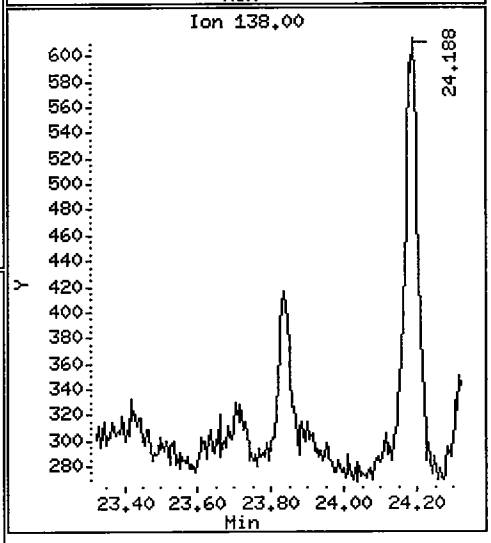
34 Indeno(1,2,3-cd)pyrene

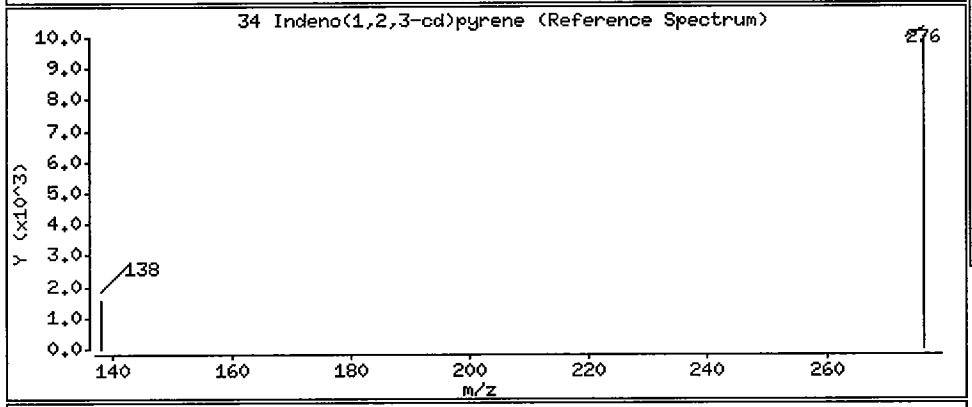
Concentration: 0.61 ug/Kg

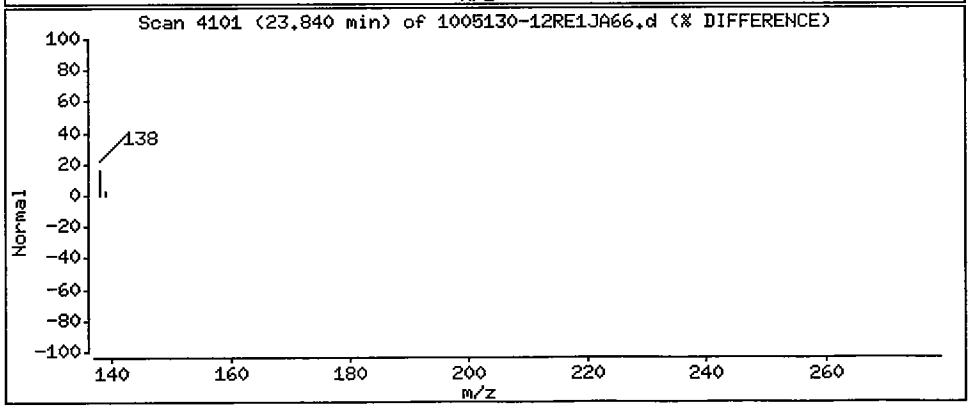












Data File: /chem/5972hp66.i/DS100623A66.b/1005130-12RE1JA66.d

Date : 23-JUN-2010 18:36

Client ID: SB48-7-8RE

Instrument: 5972hp66.i

Sample Info: 1005130-12RE1:OWS

Volume Injected (uL): 2.0

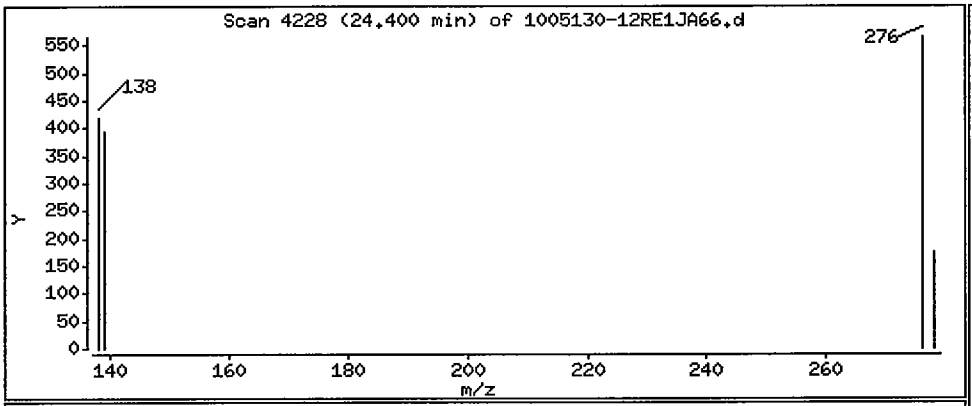
Operator: OWS

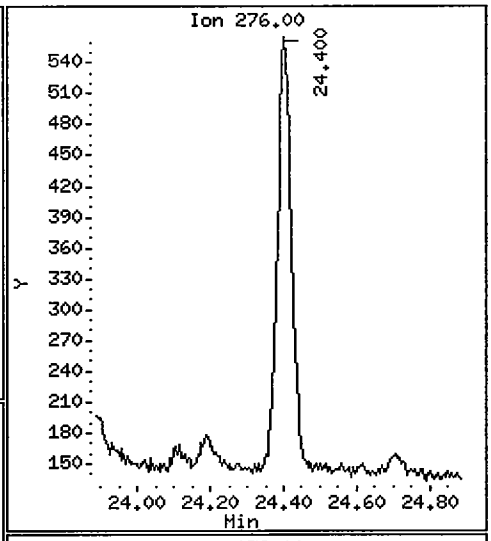
Column phase: Rtx-5MS

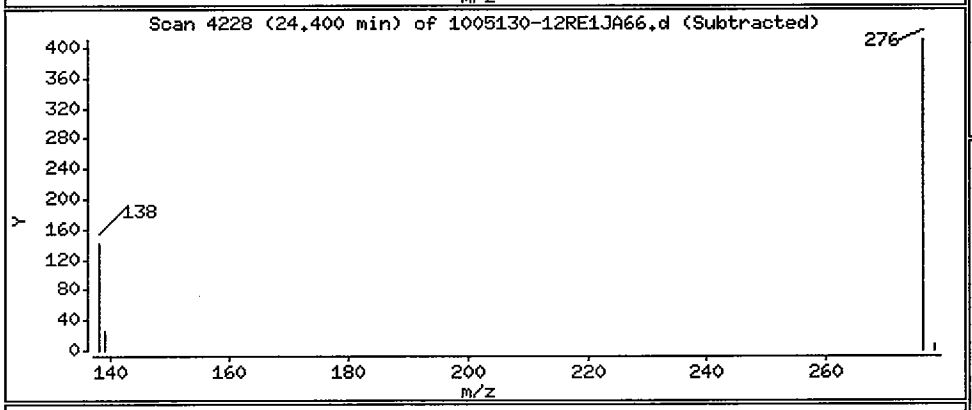
Column diameter: 0.32

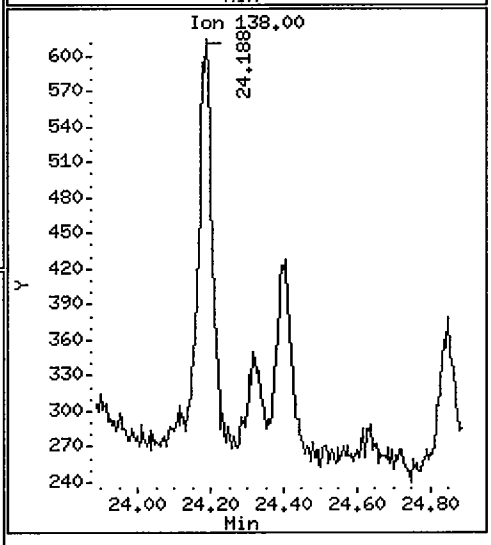
36 Benzo(g,h,i)perylene

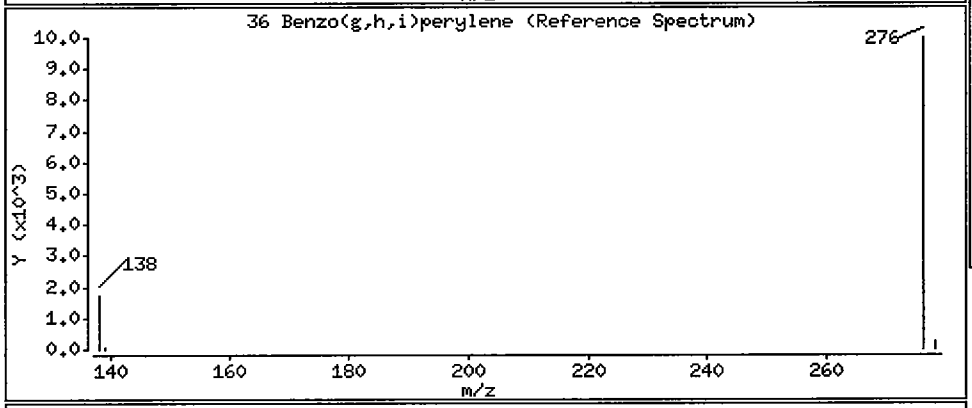
Concentration: 0.66 ug/Kg

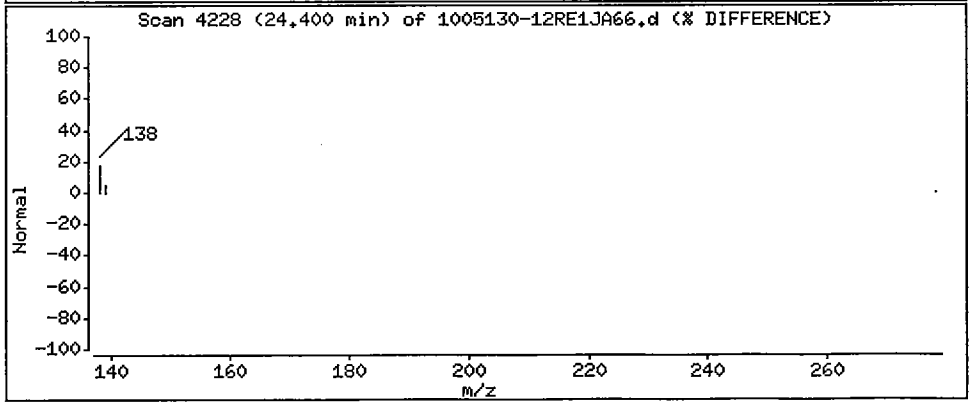












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB49-11-12

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-06
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-06J2C66
Analyst: 2743

% Moisture: 24 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

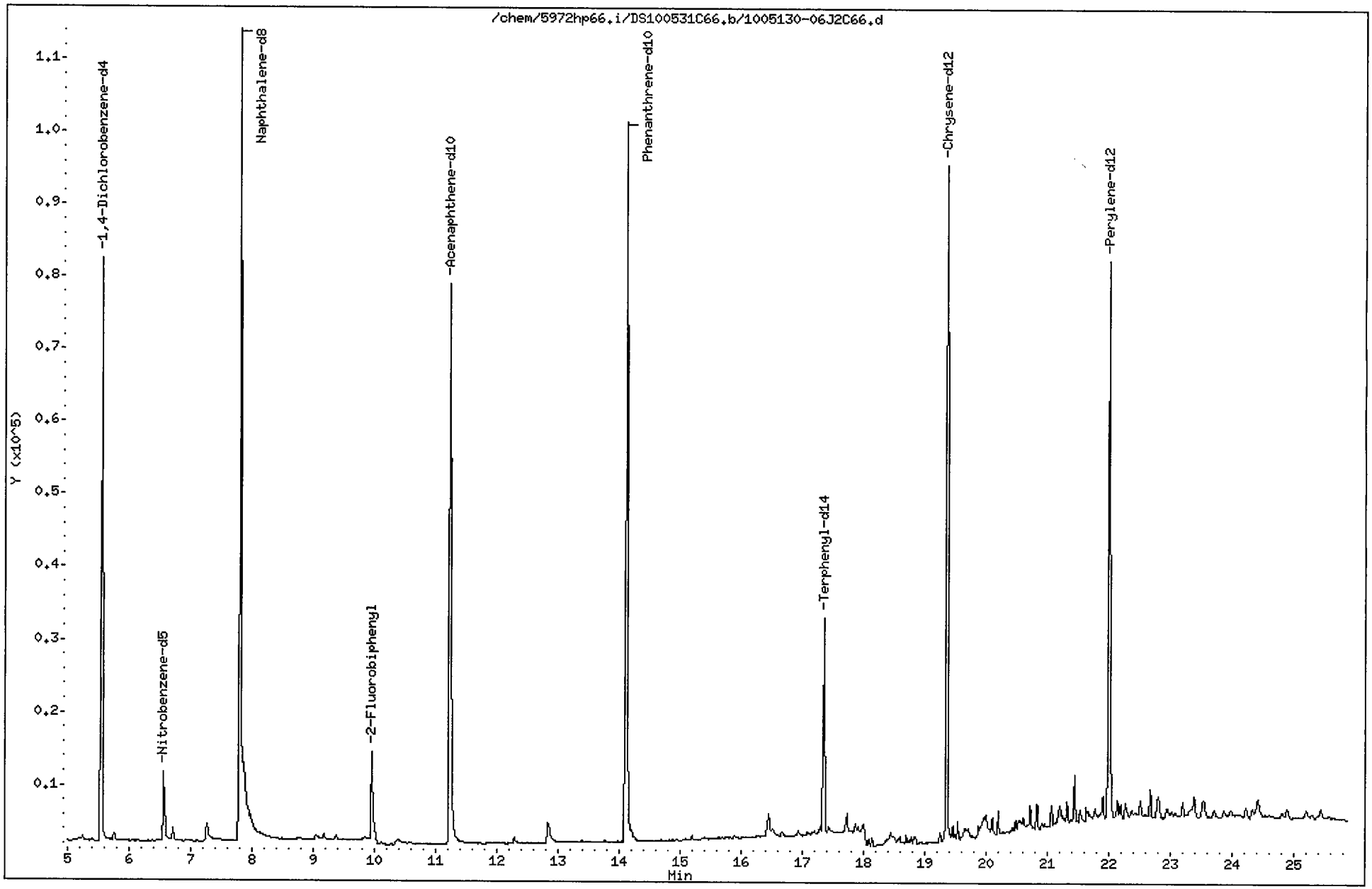
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.94	11	ND	U
91-57-6	2-Methylnaphthalene	0.90	11	ND	U
208-96-8	Acenaphthylene	0.70	11	ND	U
83-32-9	Acenaphthene	0.79	11	ND	U
86-73-7	Fluorene	0.59	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.57	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.75	11	ND	U
56-55-3	Benzo(a)anthracene	0.75	11	ND	U
218-01-9	Chrysene	0.83	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.75	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.57	11	ND	U
50-32-8	Benzo(a)pyrene	0.50	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.48	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.44	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.50	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-06J2C66.d
Date : 01-JUN-2010 04:57
Client ID: SB49-11-12
Sample Info: 1005130-06:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-06J2C66.d
Report Date: 24-Jun-2010 12:08

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-06J2C66.d
Lab Smp Id: 1005130-06 Client Smp ID: SB49-11-12
Inj Date : 01-JUN-2010 04:57
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-06:2743
Misc Info : SB49-11-12
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	24.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.548	5.535	(1.000)	50800	2.00000	
* 2 Naphthalene-d8	136	7.803	7.790	(1.000)	185859	2.00000	
* 3 Acenaphthene-d10	164	11.231	11.218	(1.000)	84957	2.00000	
* 4 Phenanthrene-d10	188	14.114	14.101	(1.000)	161842	2.00000	
* 5 Chrysene-d12	240	19.362	19.353	(1.000)	124268	2.00000	
* 6 Perylene-d12	264	21.994	21.983	(1.000)	102979	2.00000	
$ 9 Nitrobenzene-d5	82	6.565	6.552	(0.841)	12281	0.29695	6.5(R)
$ 10 2-Fluorobiphenyl	172	9.954	9.954	(0.886)	21477	0.24226	5.3(R)
$ 12 Terphenyl-d14	244	17.348	17.347	(0.896)	36515	0.80872	18
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

06/24/10

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-06J2C66.d
Report Date: 24-Jun-2010 12:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SB49-11-12RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-06RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-06REJ2A66
Analyst: 2650

% Moisture: 24 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

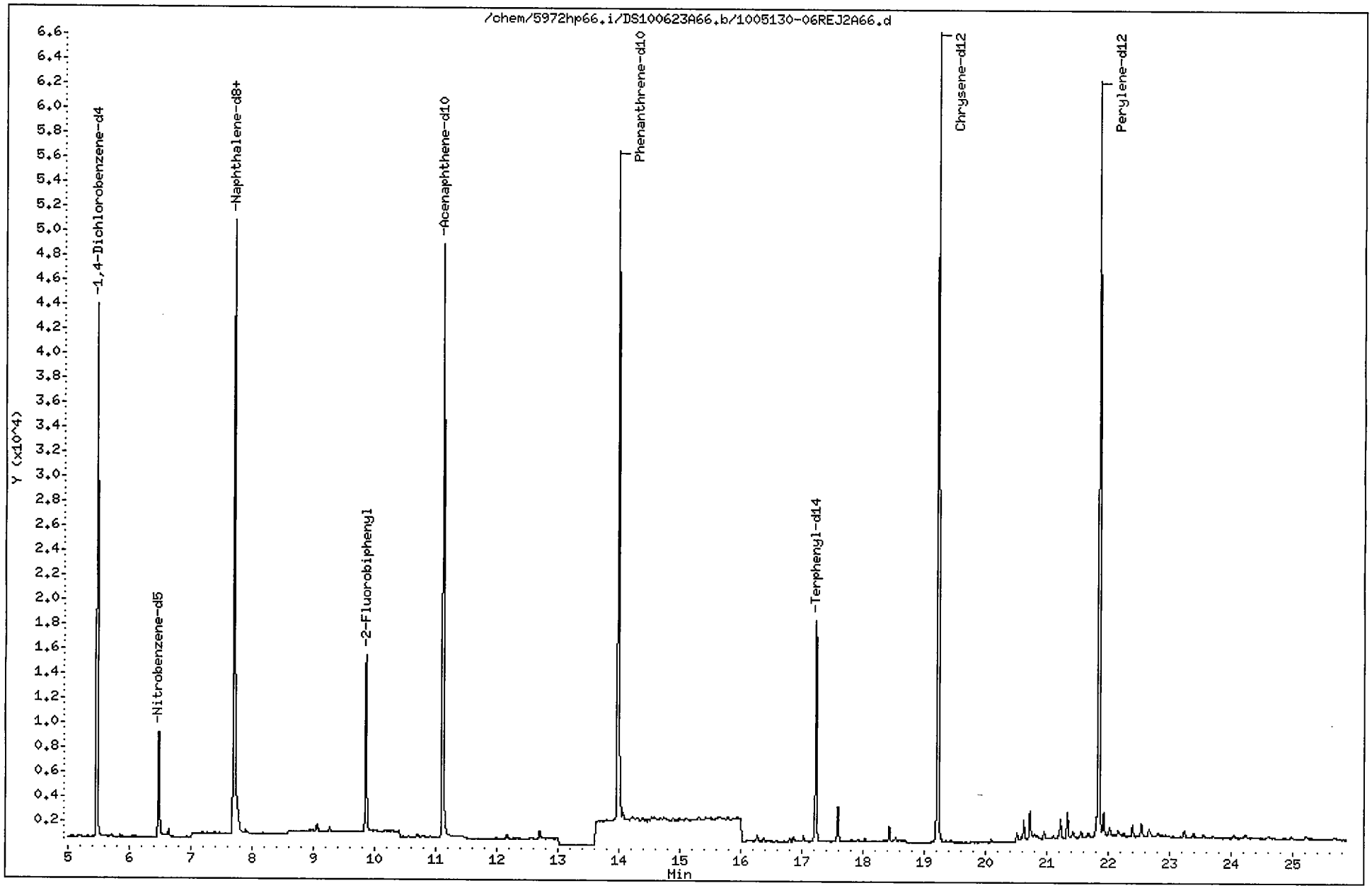
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.94	11	1.2	JB
91-57-6	2-Methylnaphthalene	0.90	11	ND	U
208-96-8	Acenaphthylene	0.70	11	ND	U
83-32-9	Acenaphthene	0.79	11	ND	U
86-73-7	Fluorene	0.59	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.57	11	ND	U
206-44-0	Fluoranthene	1.8	11	ND	U
129-00-0	Pyrene	0.75	11	ND	U
56-55-3	Benzo(a)anthracene	0.75	11	ND	U
218-01-9	Chrysene	0.83	11	ND	U
205-99-2	Benzo(b)fluoranthene	0.75	11	ND	U
207-08-9	Benzo(k)fluoranthene	0.57	11	ND	U
50-32-8	Benzo(a)pyrene	0.50	11	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.48	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.44	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.50	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100623A66.b/1005130-06REJ2A66.d
Date : 23-JUN-2010 17:28
Client ID: SB49-11-12RE
Sample Info: 1005130-06RE1:OWS
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2650
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100623A66.b/1005130-06REJ2A66.d
Report Date: 24-Jun-2010 14:07

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100623A66.b/1005130-06REJ2A66.d
Lab Smp Id: 1005130-06RE1 Client Smp ID: SB49-11-12RE
Inj Date : 23-JUN-2010 17:28
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 1005130-06RE1:OWS
Misc Info : SB49-11-12RE
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100623A66.b/SIM_8270Cv3DOD.m
Meth Date : 22-Jun-2010 11:09 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.472	5.485	(1.000)	25599	2.00000		(a)
* 2 Naphthalene-d8	136	7.706	7.718	(1.000)	75685	2.00000		(a)
* 3 Acenaphthene-d10	164	11.117	11.127	(1.000)	42368	2.00000		(a)
* 4 Phenanthrene-d10	188	13.979	13.992	(1.000)	77317	2.00000		(a)
* 5 Chrysene-d12	240	19.221	19.234	(1.000)	88752	2.00000		(a)
* 6 Perylene-d12	264	21.846	21.859	(1.000)	82556	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.477	6.490	(0.841)	10172	0.54843	9.1	
$ 10 2-Fluorobiphenyl	172	9.856	9.872	(0.887)	16801	0.50084	8.3	
$ 12 Terphenyl-d14	244	17.231	17.248	(0.896)	23060	0.83547	14	
13 Naphthalene	128	7.740	7.752	(1.004)	2478	0.05608	0.93	(aM)
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

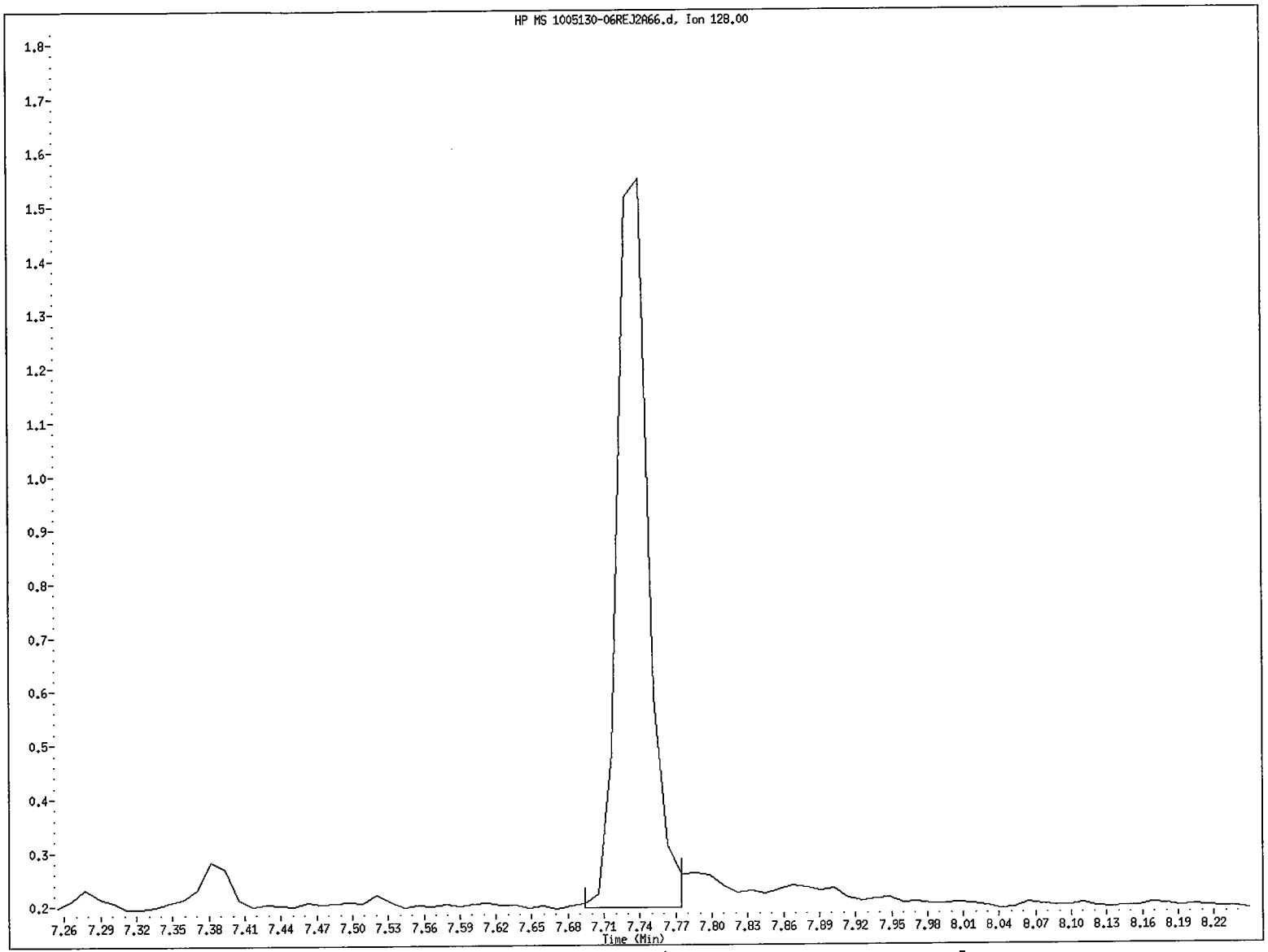
Data File: /chem/5972hp66.i/DS100623A66.b/1005130-06REJ2A66.d
Report Date: 24-Jun-2010 14:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

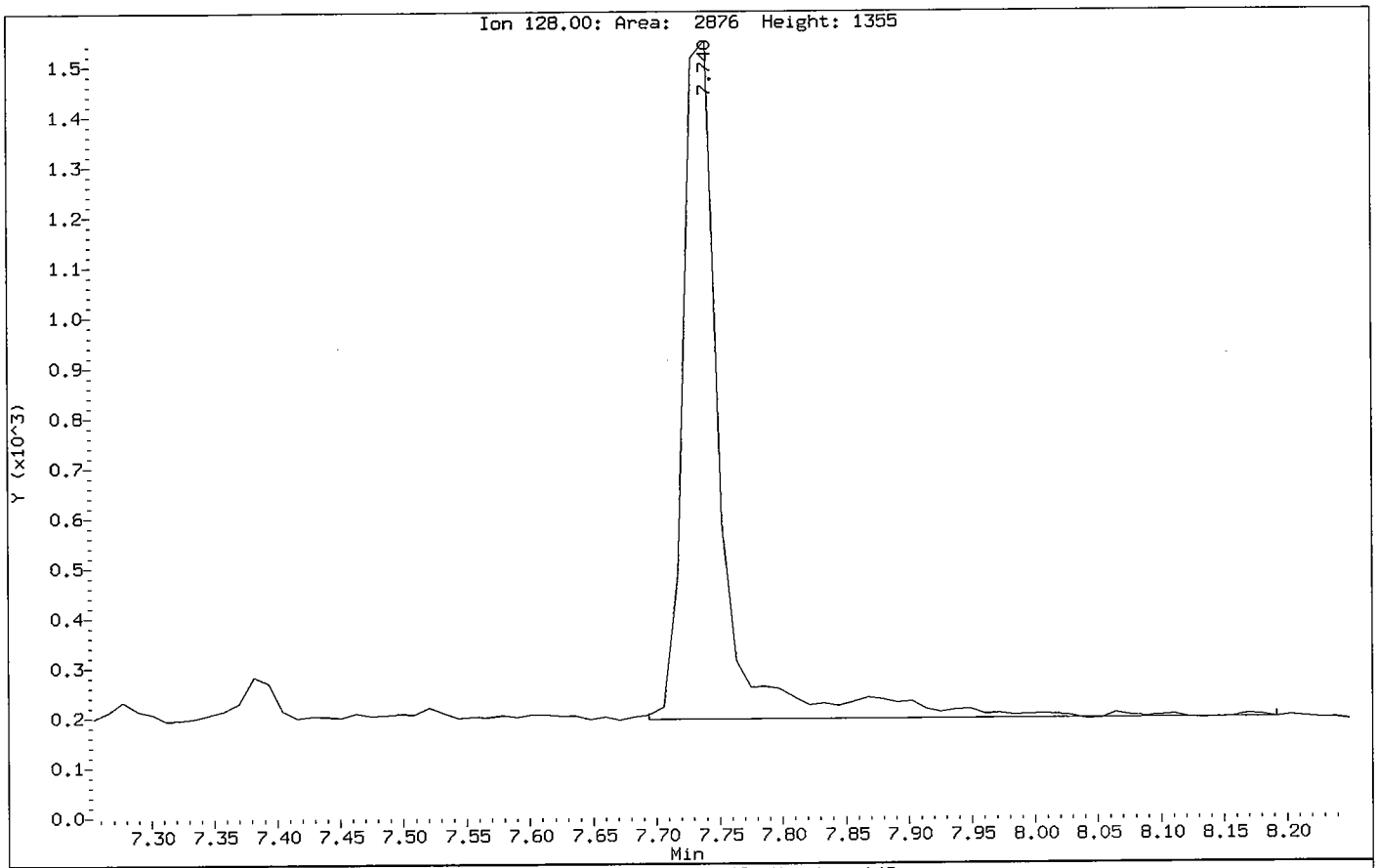
Naphthalene CAS Number 91-20-3 Area = 2478 Manually integrated

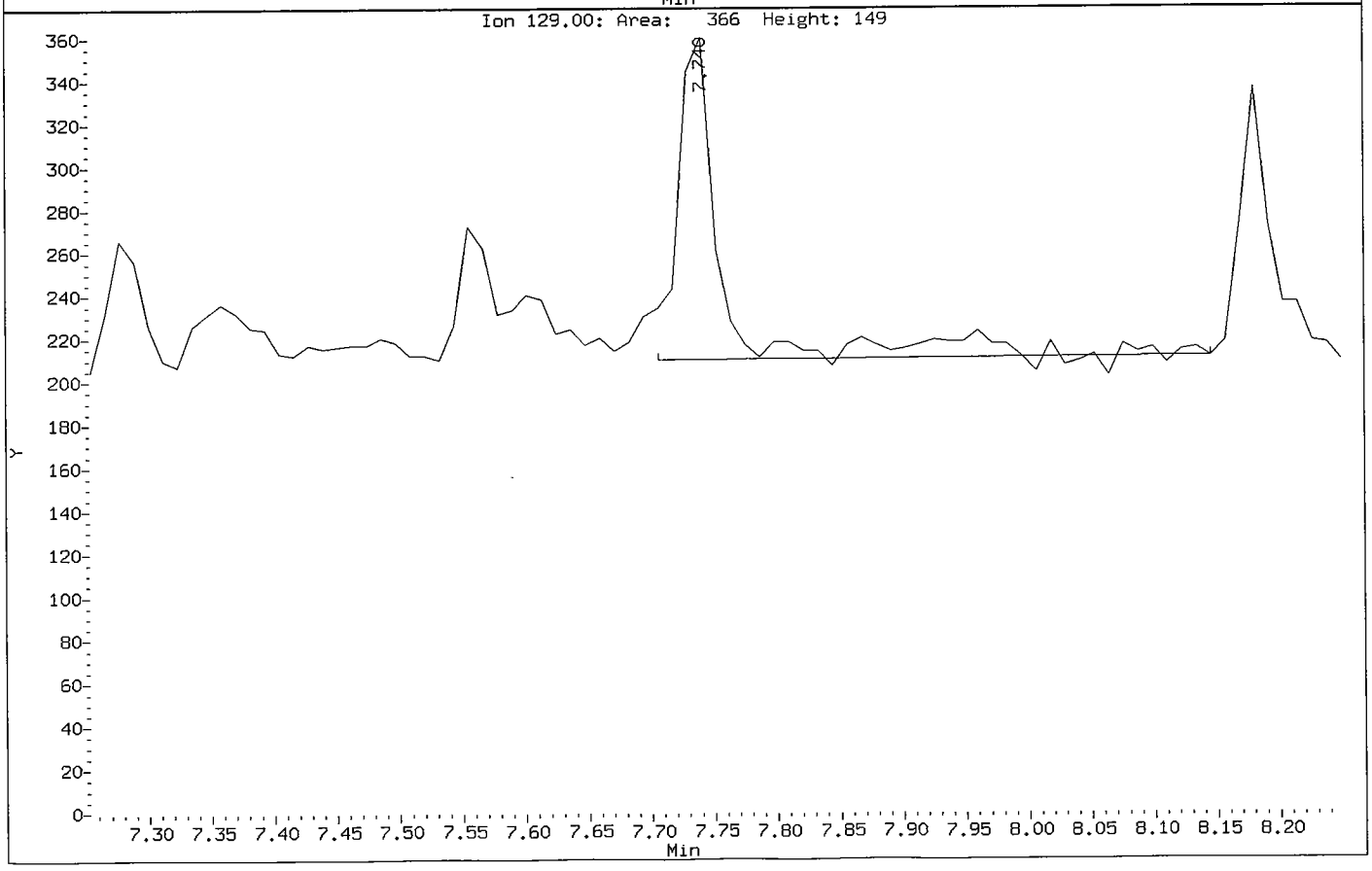


File name: /chem/5972hp66.i/DS100623A66.b/1005130-06REJ2A66.d
Client ID: SB49-11-12RE
Instrument ID: 5972hp66.i
Injection Date and Time: 23-JUN-2010 17:28
Retention Time: 7.74
Operator ID: 2650

Data File: /chem/5972hp66.i/DS100623A66.b/1005130-06REJ2A66.d
Injection Date: 23-JUN-2010 17:28
Instrument: 5972hp66.i
Client Sample ID: SB49-11-12RE

Compound: Naphthalene
CAS Number: 91-20-3





Data File: /chem/5972hp66.i/DS100623A66.b/1005130-06REJ2A66.d

Date : 23-JUN-2010 17:28

Client ID: SB49-11-12RE

Instrument: 5972hp66.i

Sample Info: 1005130-06RE1:DWS

Volume Injected (uL): 2.0

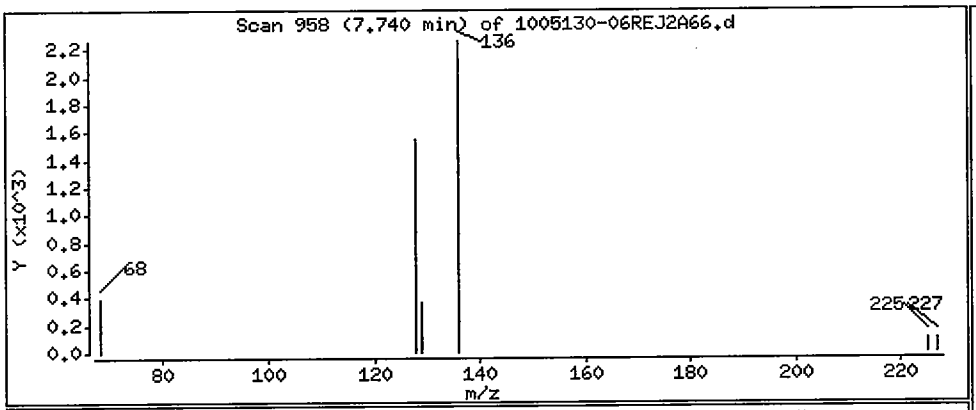
Operator: 2650

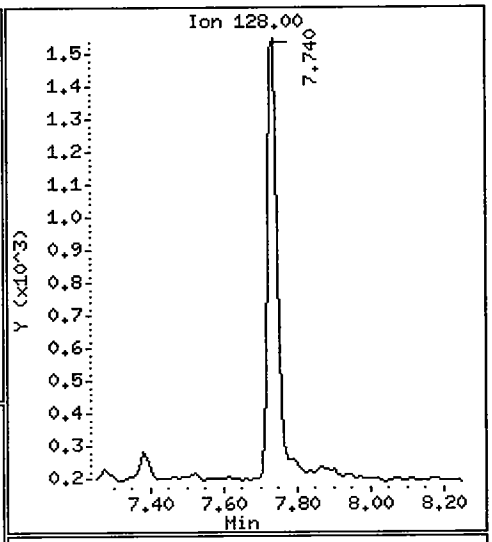
Column phase: Rtx-5MS

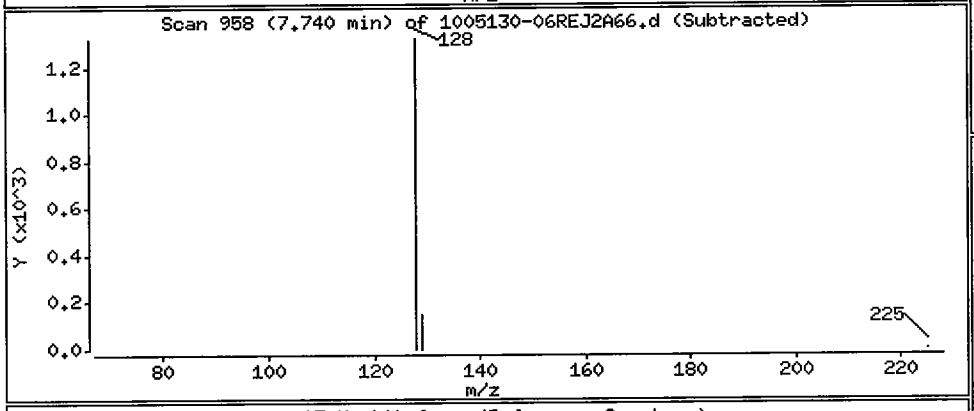
Column diameter: 0.32

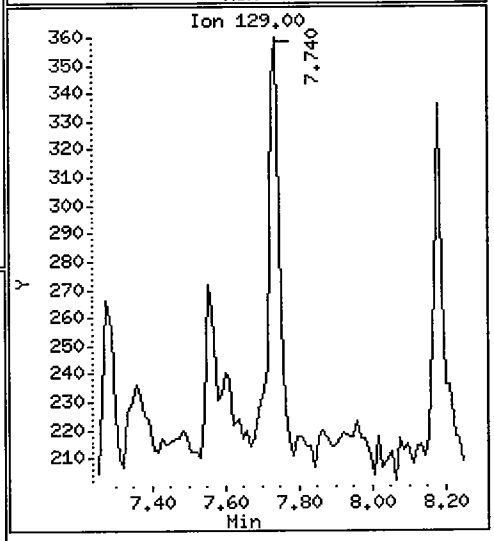
13 Naphthalene

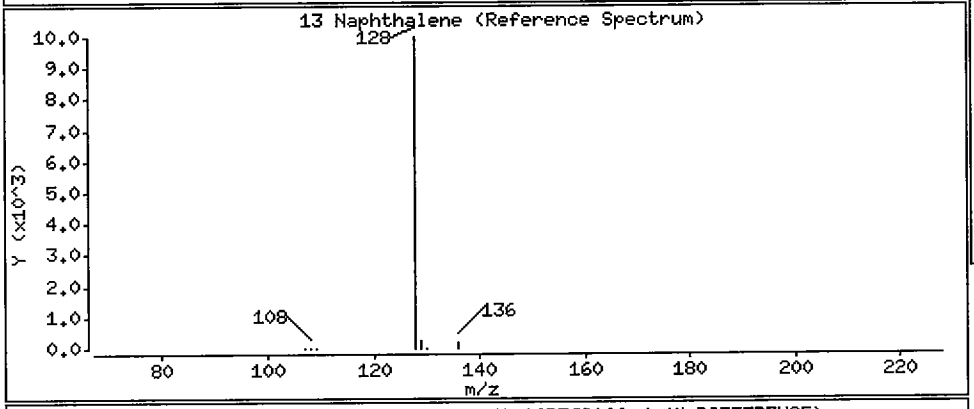
Concentration: 0.93 ug/Kg

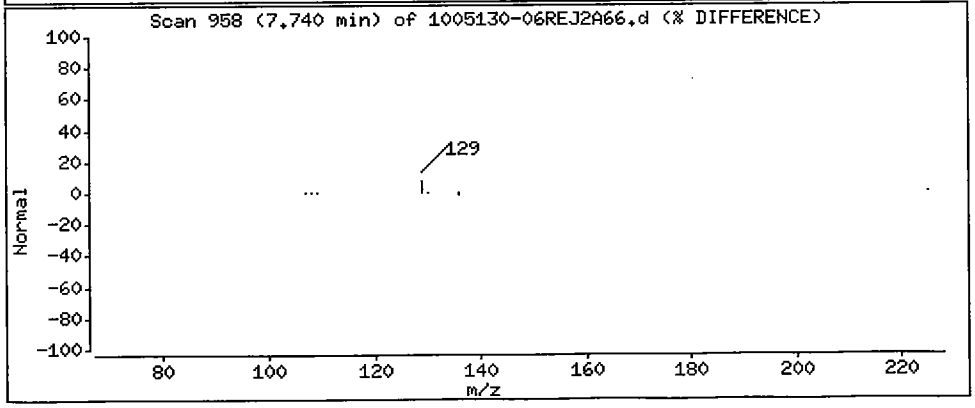












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS05-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005130-20
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-20C66
Analyst: 2743

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

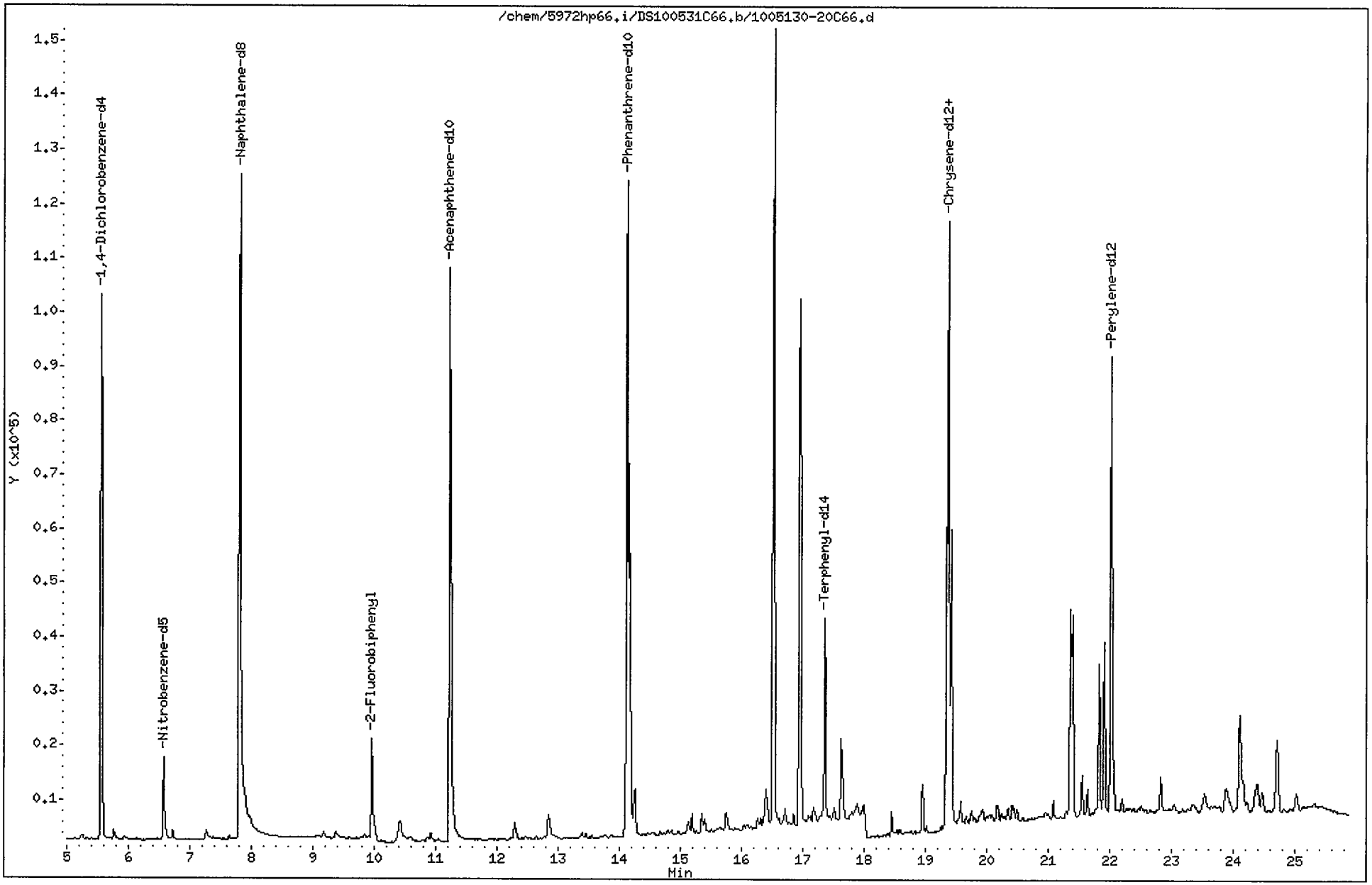
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	ND	U
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	0.64	J
85-01-8	Phenanthrene	1.7	11	15	
120-12-7	Anthracene	0.55	11	2.8	J
206-44-0	Fluoranthene	1.7	11	41	
129-00-0	Pyrene	0.72	11	27	
56-55-3	Benzo(a)anthracene	0.72	11	17	
218-01-9	Chrysene	0.80	11	17	
205-99-2	Benzo(b)fluoranthene	0.72	11	17	
207-08-9	Benzo(k)fluoranthene	0.55	11	13	
50-32-8	Benzo(a)pyrene	0.49	11	12	
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	9.5	J
53-70-3	Dibenzo(a,h)anthracene	0.42	11	2.7	J
191-24-2	Benzo(g,h,i)perylene	0.49	11	7.4	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d
Date : 01-JUN-2010 10:03
Client ID: SS05-0-1
Sample Info: 1005130-20;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d
Report Date: 24-Jun-2010 12:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d
Lab Smp Id: 1005130-20 Client Smp ID: SS05-0-1
Inj Date : 01-JUN-2010 10:03
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-20:2743
Misc Info : SS05-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	21.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.557	5.535	(1.000)	62227	2.00000		(a)
* 2 Naphthalene-d8	136	7.812	7.790	(1.000)	228016	2.00000		(a)
* 3 Acenaphthene-d10	164	11.230	11.218	(1.000)	104591	2.00000		(a)
* 4 Phenanthrene-d10	188	14.127	14.101	(1.000)	208512	2.00000		(a)
* 5 Chrysene-d12	240	19.379	19.353	(1.000)	156171	2.00000		(a)
* 6 Perylene-d12	264	22.015	21.983	(1.000)	118546	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.574	6.552	(0.841)	19853	0.39129	8.3	
$ 10 2-Fluorobiphenyl	172	9.963	9.954	(0.887)	33715	0.30891	6.5	(R)
$ 12 Terphenyl-d14	244	17.360	17.347	(0.896)	45955	0.80987	17	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d
Report Date: 24-Jun-2010 12:09

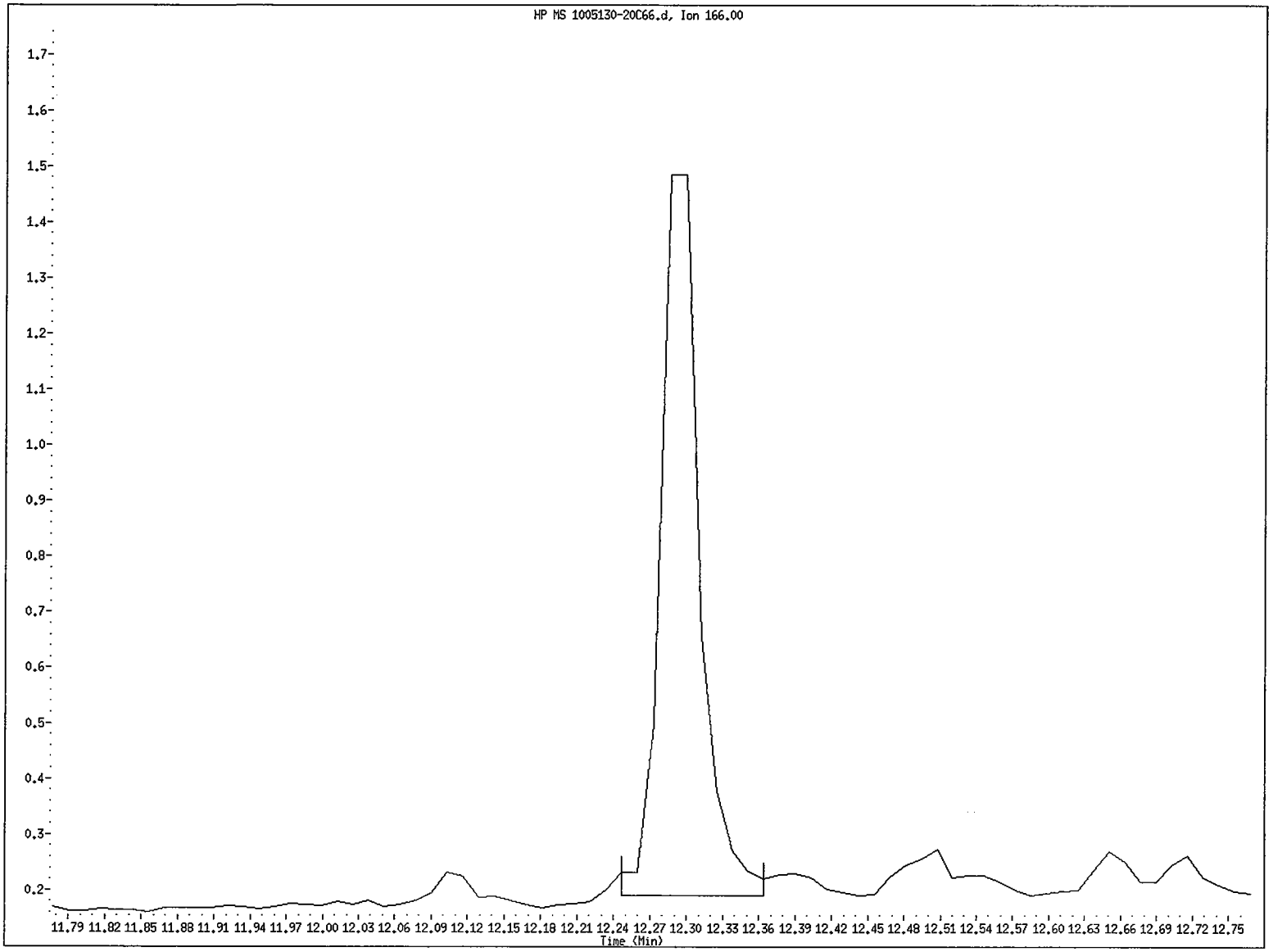
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	12.299	12.273	(0.871)	2952	0.03025	0.64(aM)
25 Phenanthrene	178	14.166	14.140	(1.003)	95336	0.73324	15
26 Anthracene	178	14.257	14.231	(1.009)	15617	0.13353	2.8(a)
27 Fluoranthene	202	16.526	16.500	(0.853)	202957	1.95989	41
28 Pyrene	202	16.956	16.930	(0.875)	145466	1.28989	27
29 Benzo(a)anthracene	228	19.344	19.318	(0.998)	67202	0.79159	17
30 Chrysene	228	19.422	19.397	(1.002)	73052	0.79445	17
31 Benzo(b)fluoranthene	252	21.362	21.330	(0.970)	63006	0.80591	17
32 Benzo(k)fluoranthene	252	21.394	21.373	(0.972)	52073	0.61895	13
33 Benzo(a)pyrene	252	21.906	21.885	(0.995)	41202	0.58482	12
34 Indeno(1,2,3-cd)pyrene	276	24.105	24.062	(1.095)	28135	0.45266	9.5(a)
35 Dibenzo(a,h)anthracene	278	24.159	24.116	(1.097)	7950	0.12930	2.7(a)
36 Benzo(g,h,i)perylene	276	24.714	24.661	(1.123)	24176	0.35094	7.4(a)

2 to 6 hundred

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

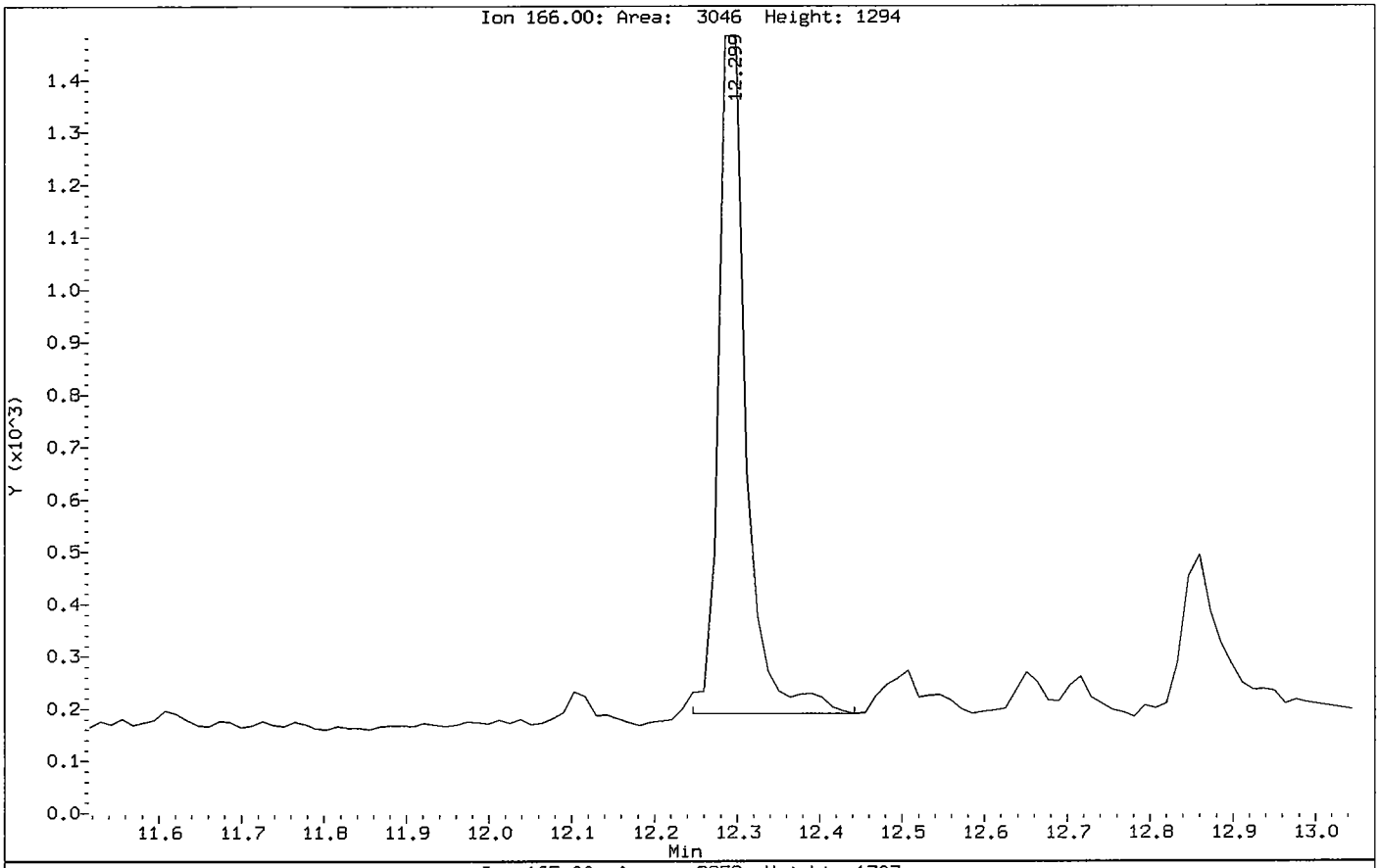
Fluorene CAS Number 86-73-7 Area = 2952 Manually integrated

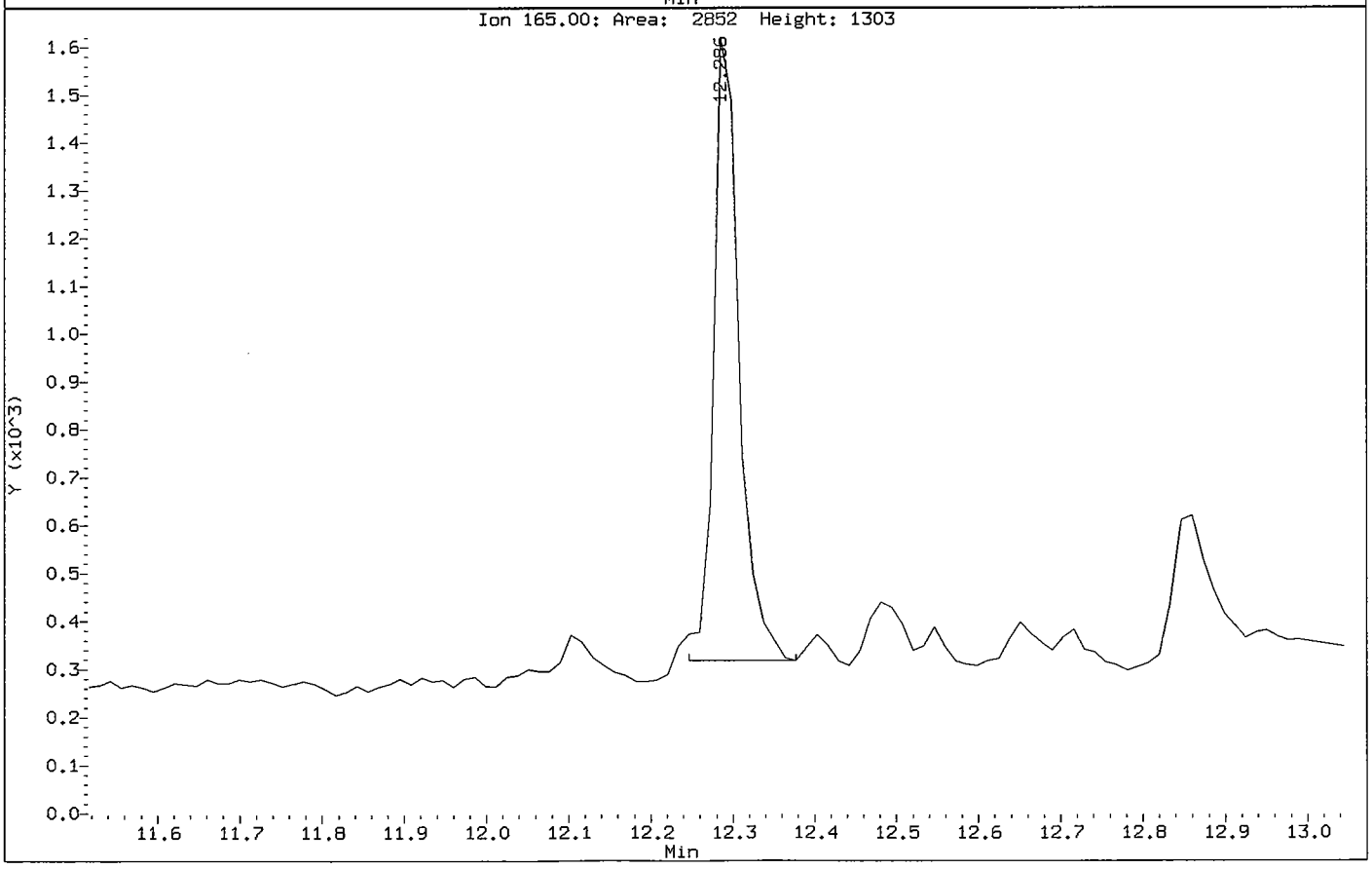


File name: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d
Client ID: SS05-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 10:03
Retention Time: 12.30
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d
Injection Date: 01-JUN-2010 10:03
Instrument: 5972hp66.i
Client Sample ID: SS05-0-1

Compound: Fluorene
CAS Number: 86-73-7





Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

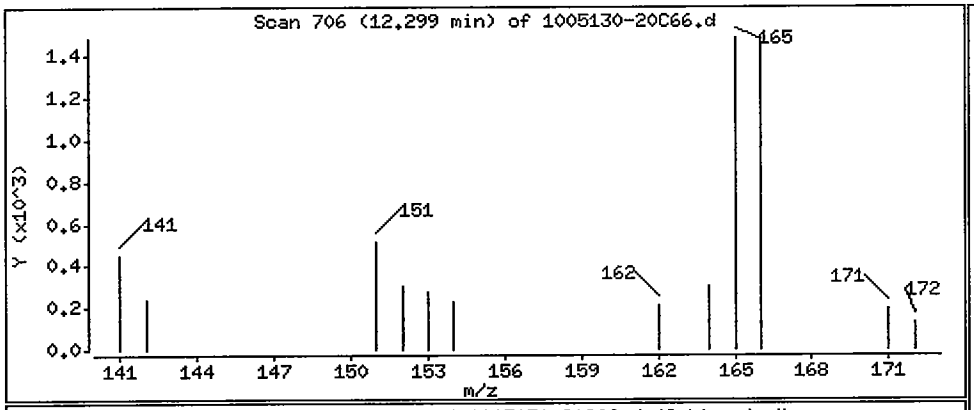
Operator: 2743

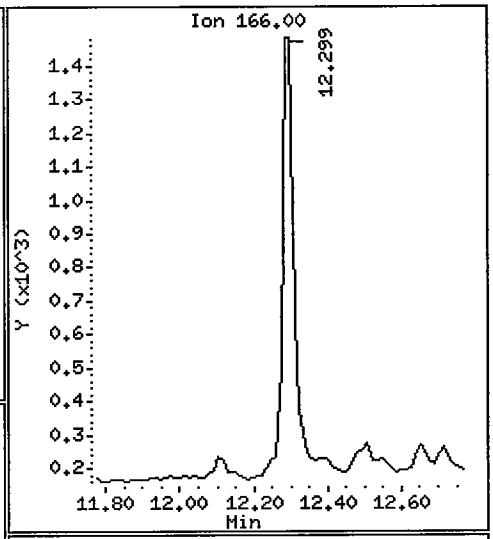
Column phase: Rtx-5MS

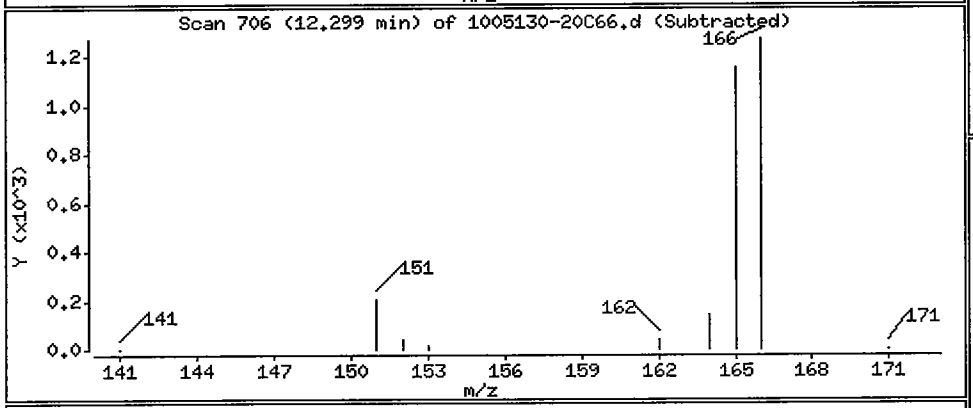
Column diameter: 0.32

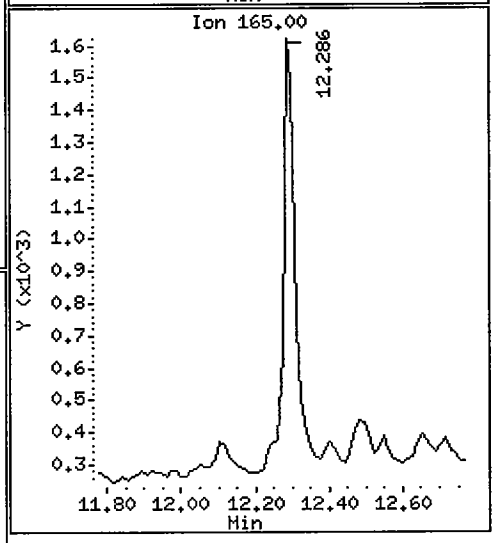
21 Fluorene

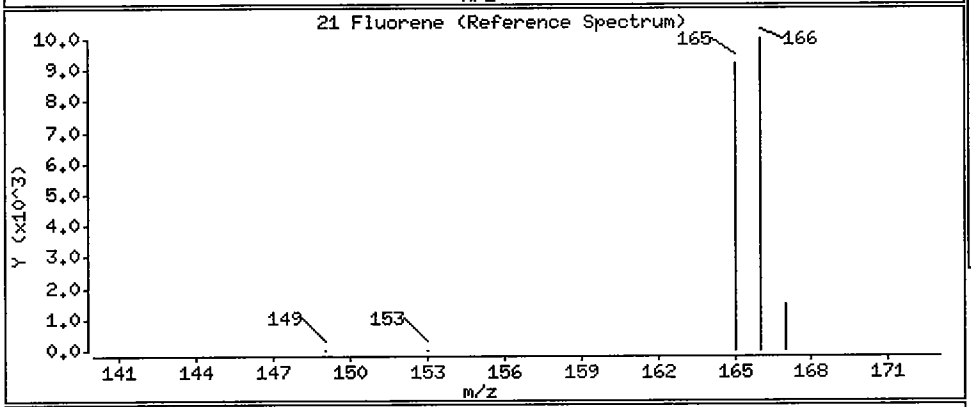
Concentration: 0.64 ug/Kg

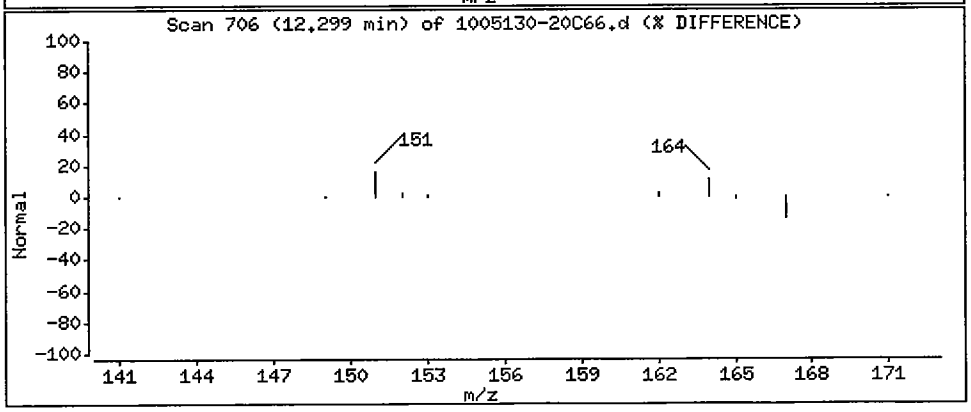












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

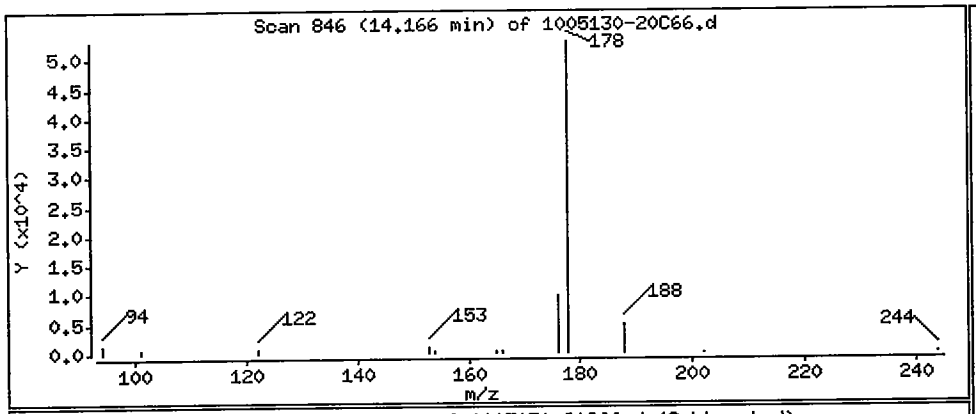
Operator: 2743

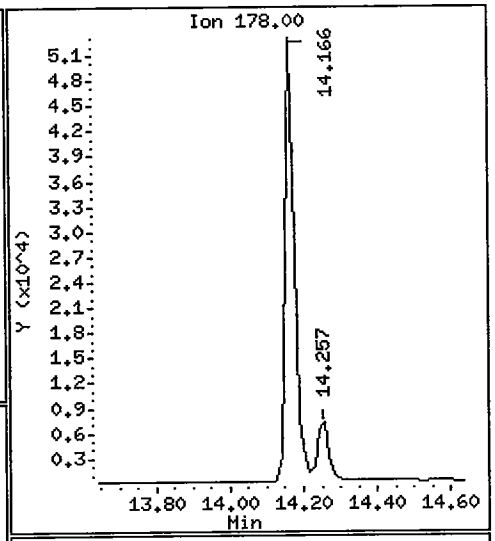
Column phase: Rtx-5MS

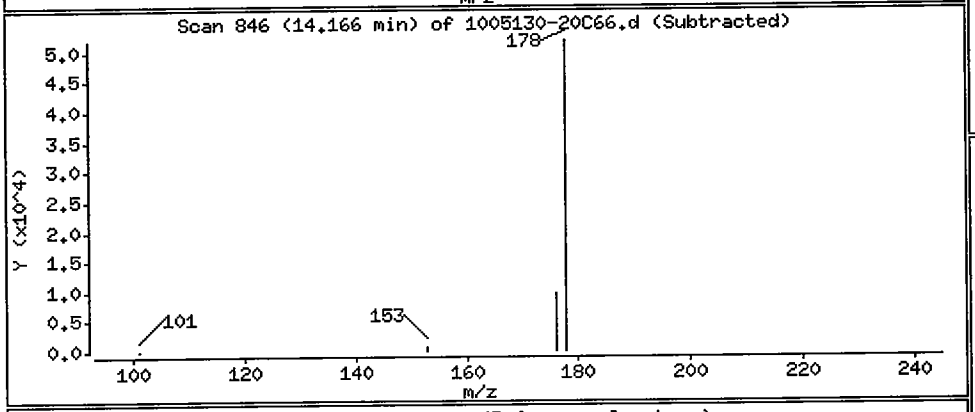
Column diameter: 0.32

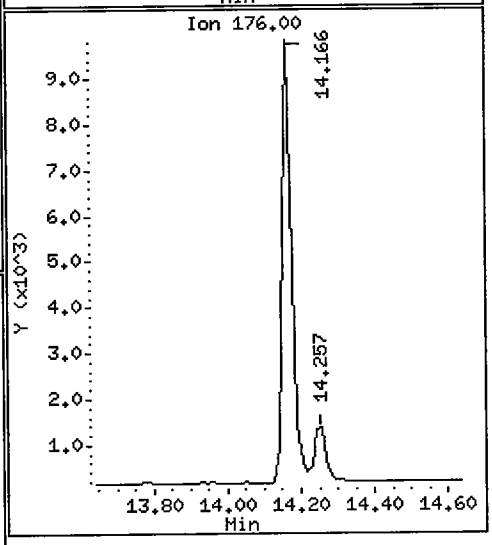
25 Phenanthrene

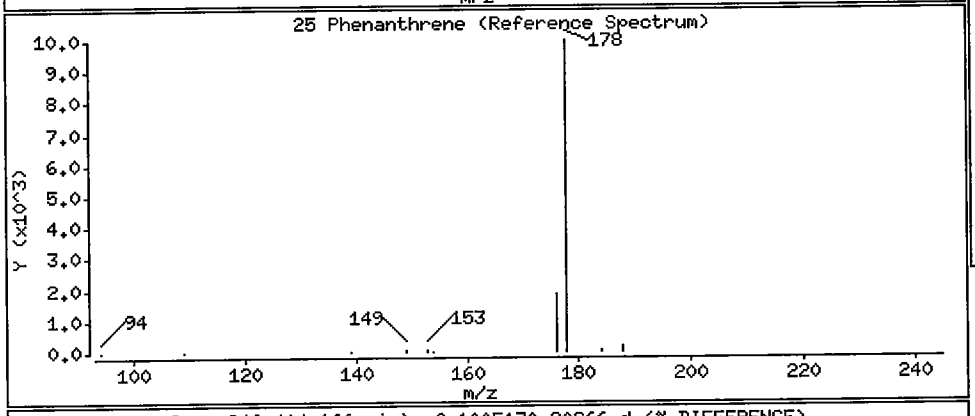
Concentration: 15 ug/Kg

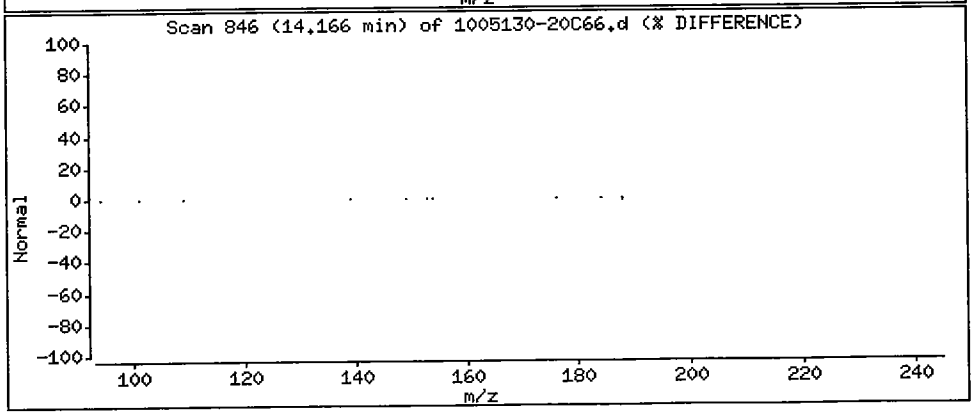












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

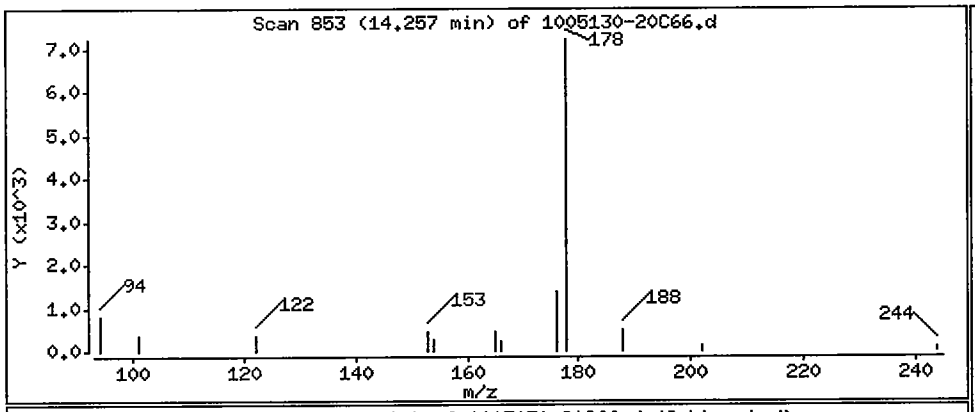
Operator: 2743

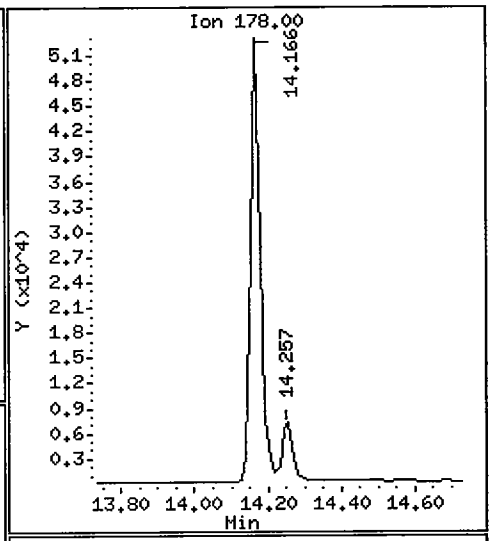
Column phase: Rtx-5MS

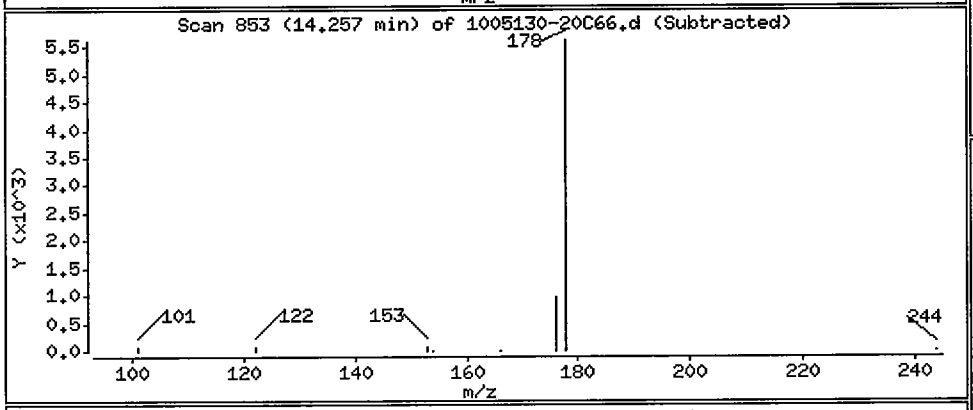
Column diameter: 0.32

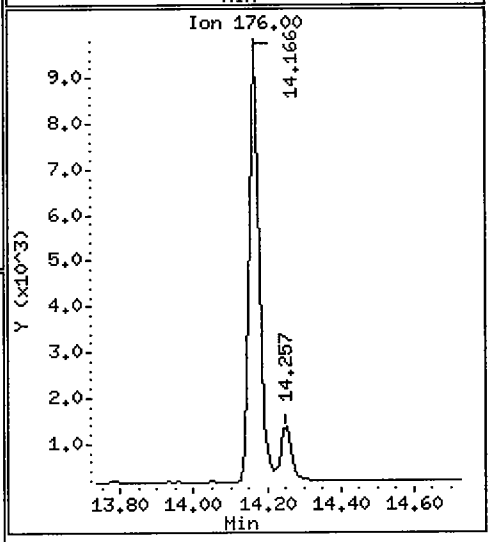
26 Anthracene

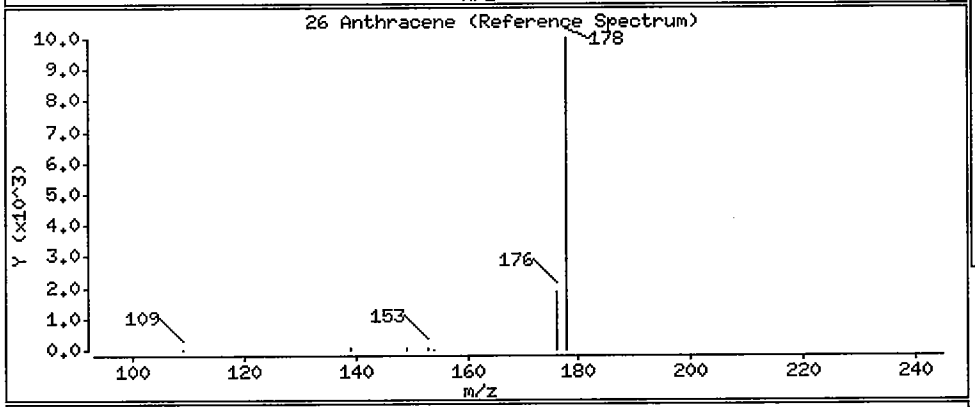
Concentration: 2.8 ug/Kg

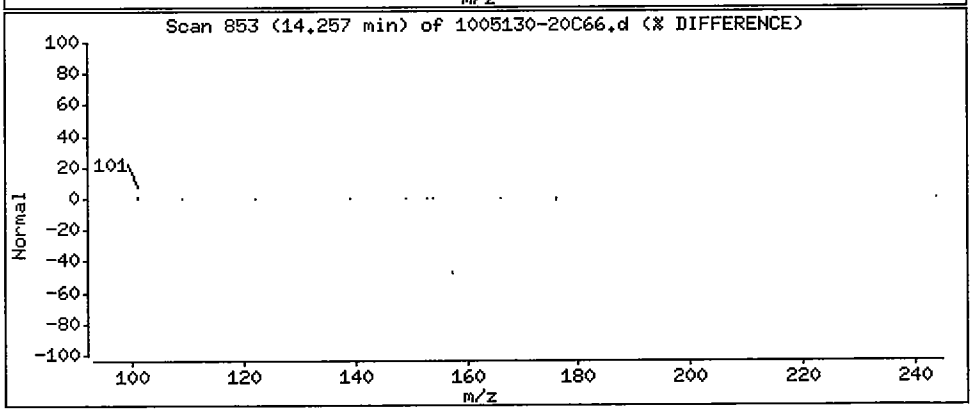












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

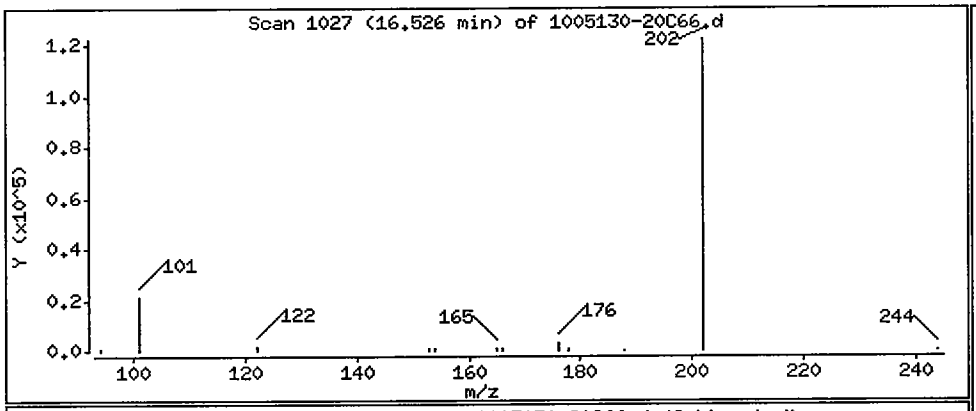
Client ID: SS05-0-1 Instrument: 5972hp66.i

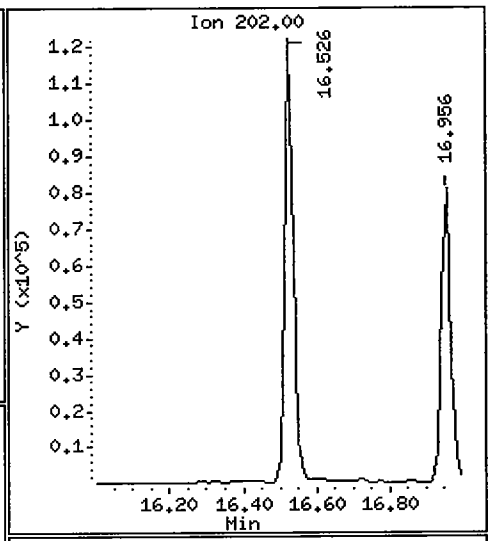
Sample Info: 1005130-20:2743

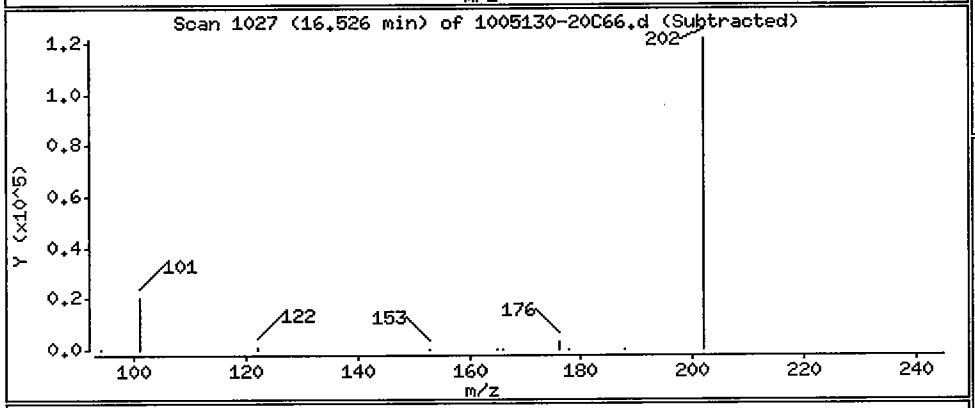
Volume Injected (uL): 2.0 Operator: 2743

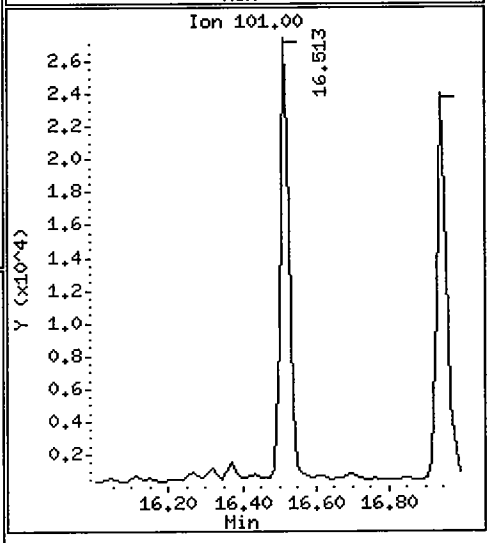
Column phase: Rtx-5MS Column diameter: 0.32

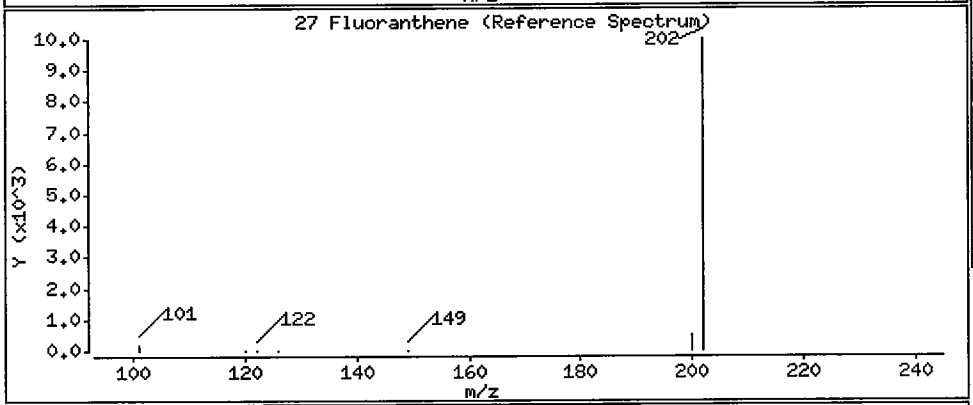
27 Fluoranthene Concentration: 41 ug/Kg

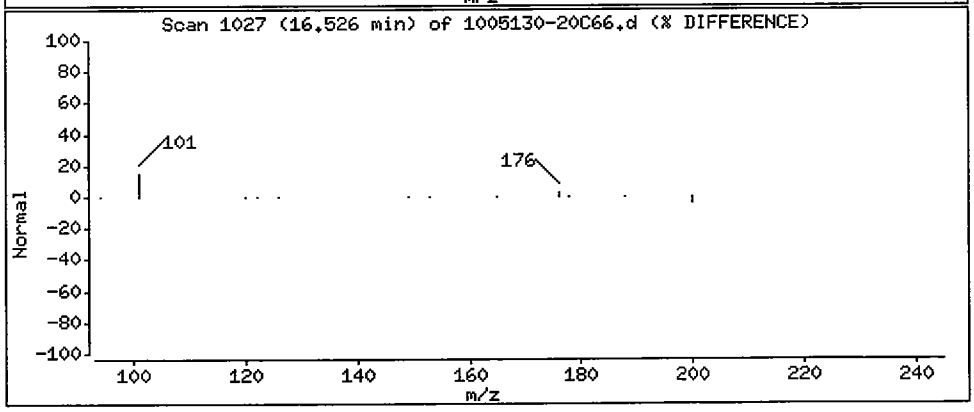












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

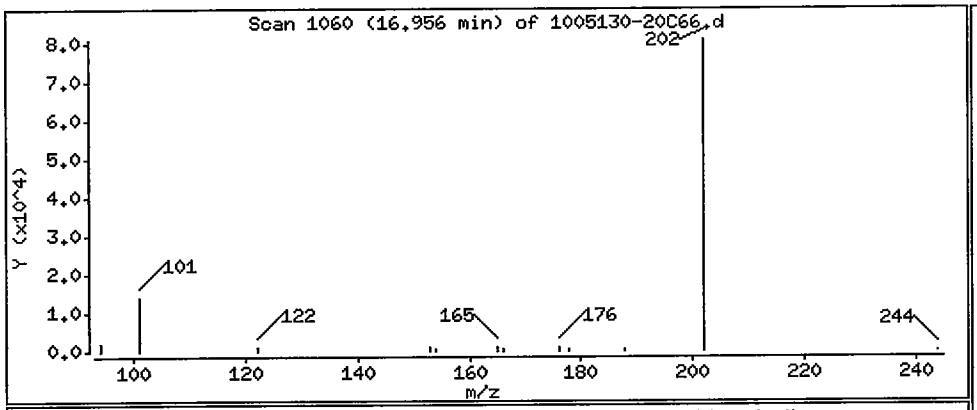
Operator: 2743

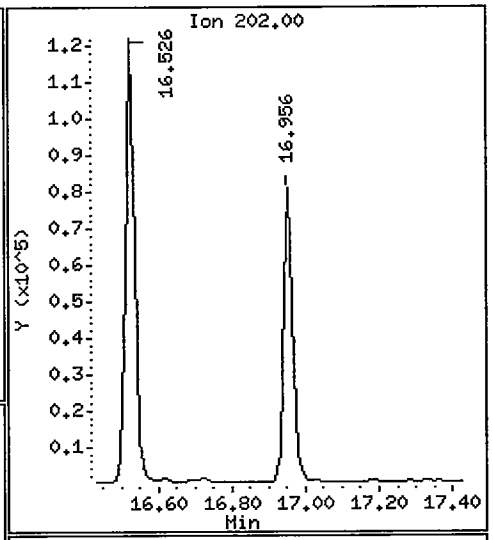
Column phase: Rtx-5MS

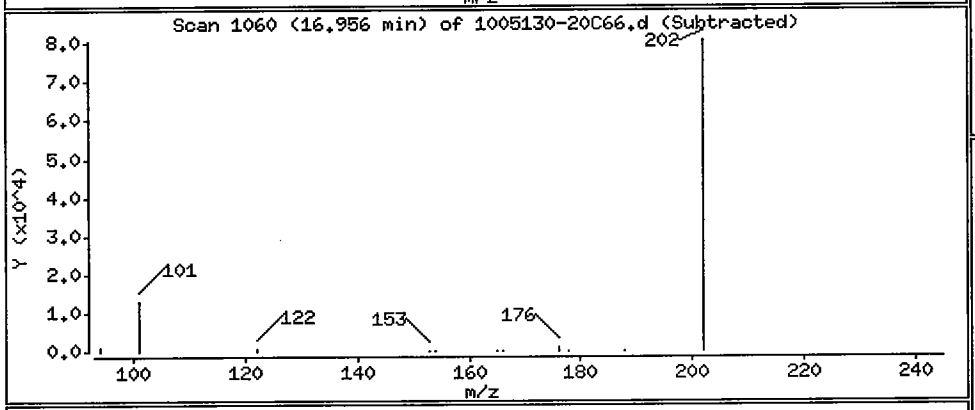
Column diameter: 0.32

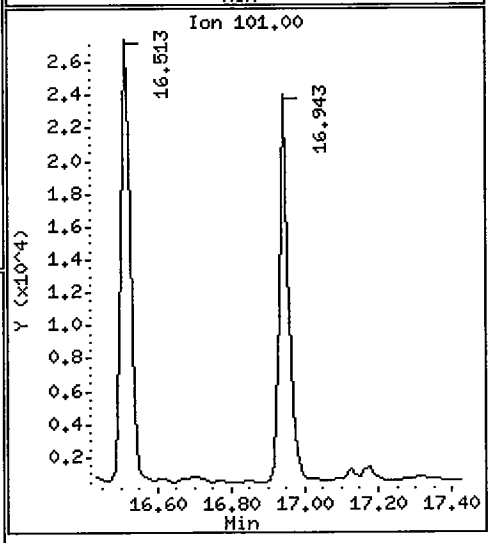
28 Pyrene

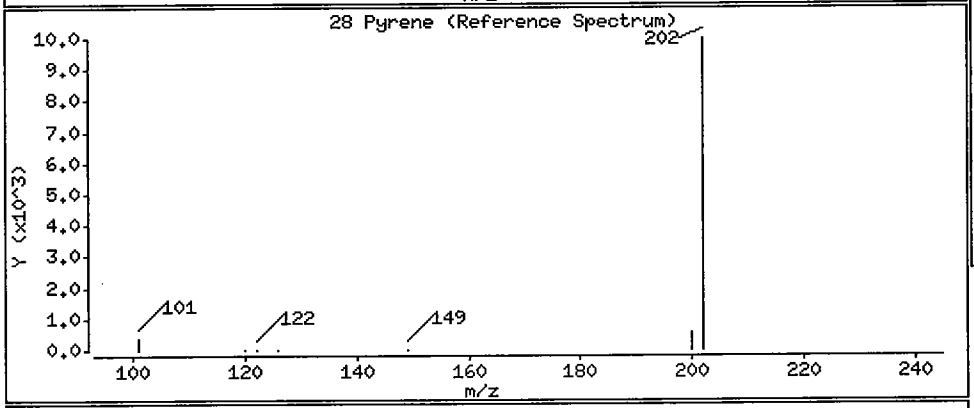
Concentration: 27 ug/Kg

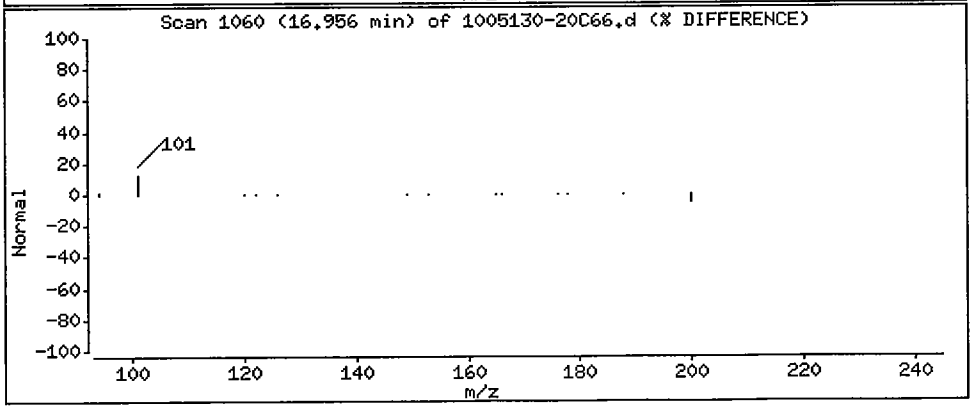












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

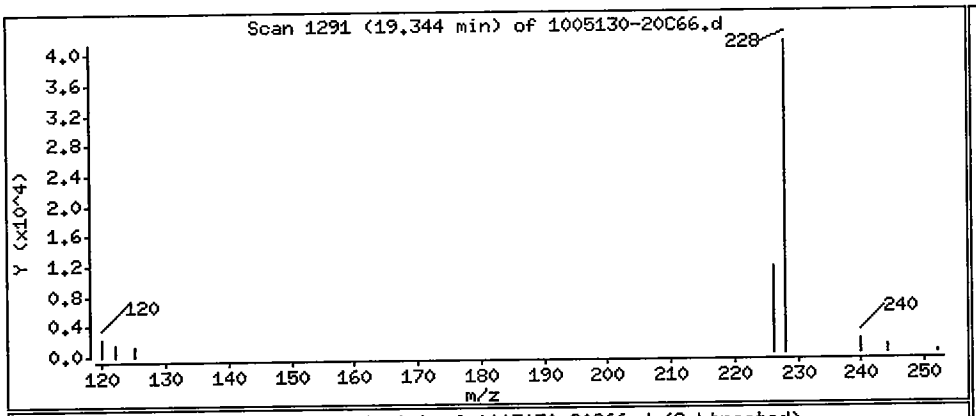
Operator: 2743

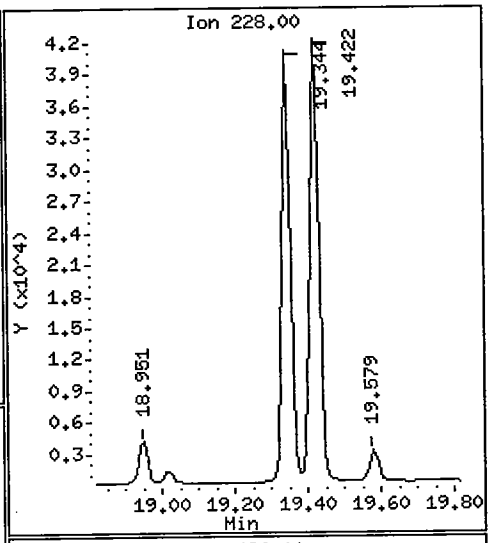
Column phase: Rtx-5MS

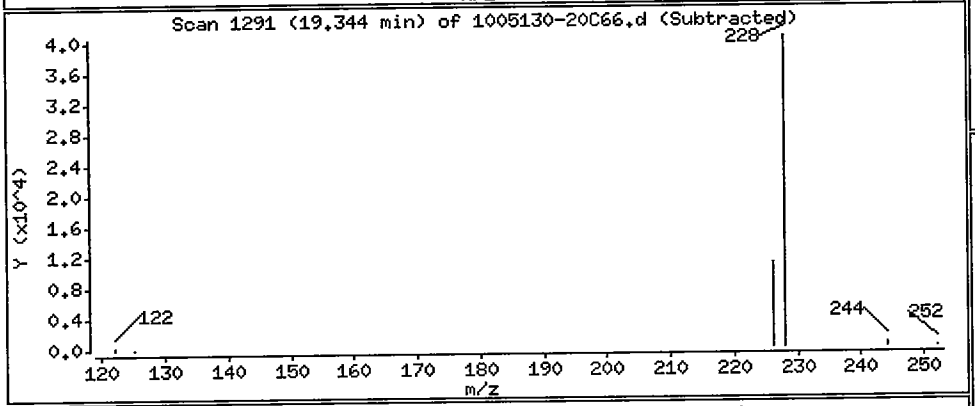
Column diameter: 0.32

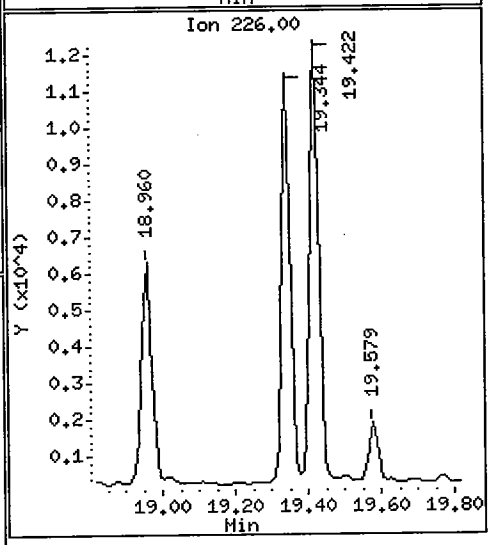
29 Benzo(a)anthracene

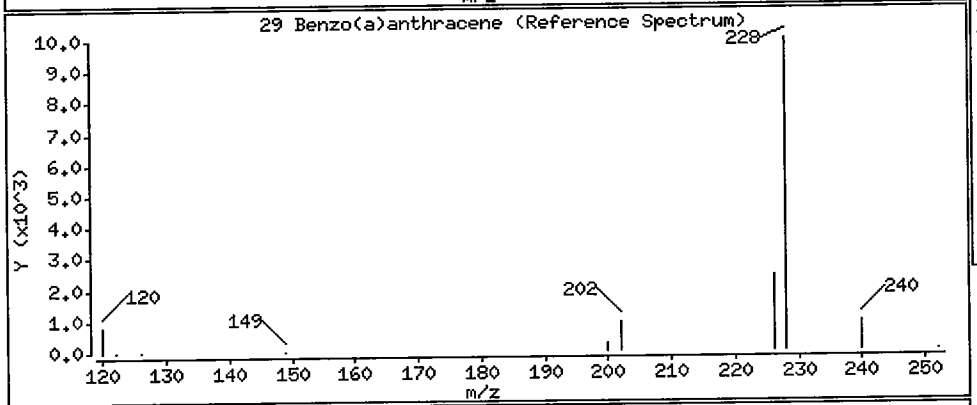
Concentration: 17 ug/Kg

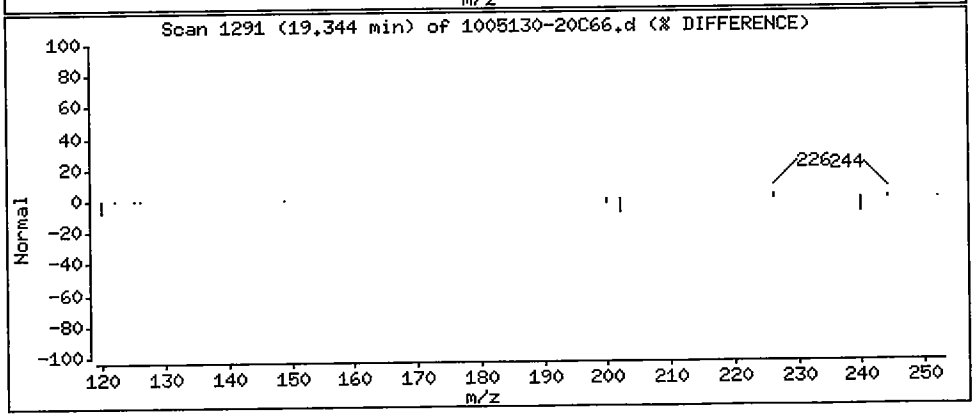












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

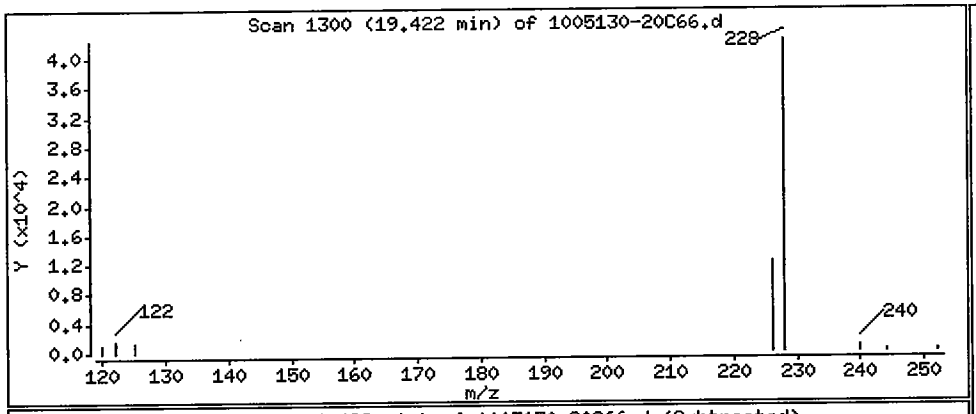
Operator: 2743

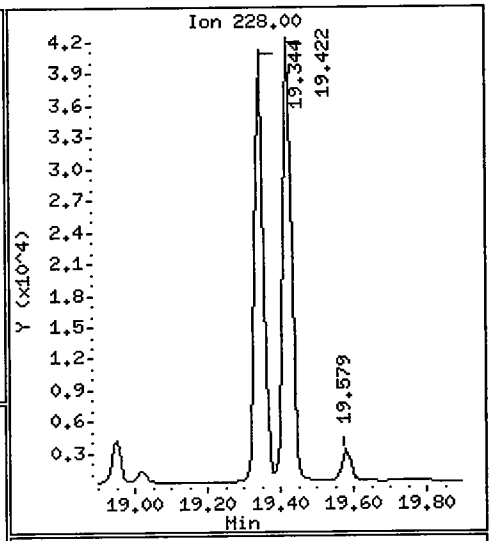
Column phase: Rtx-5MS

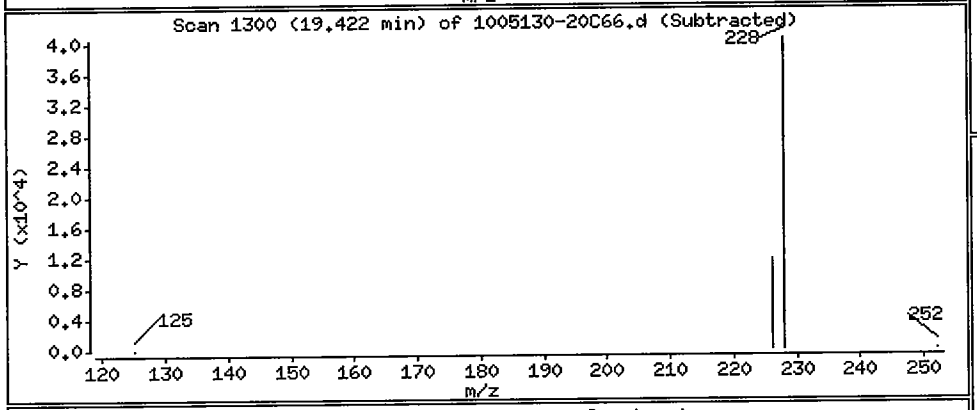
Column diameter: 0.32

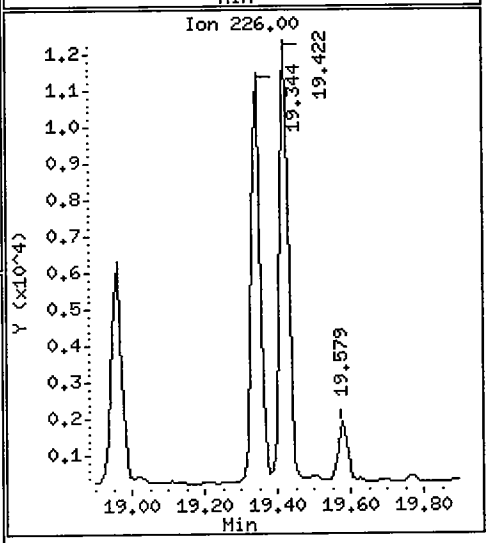
30 Chrysene

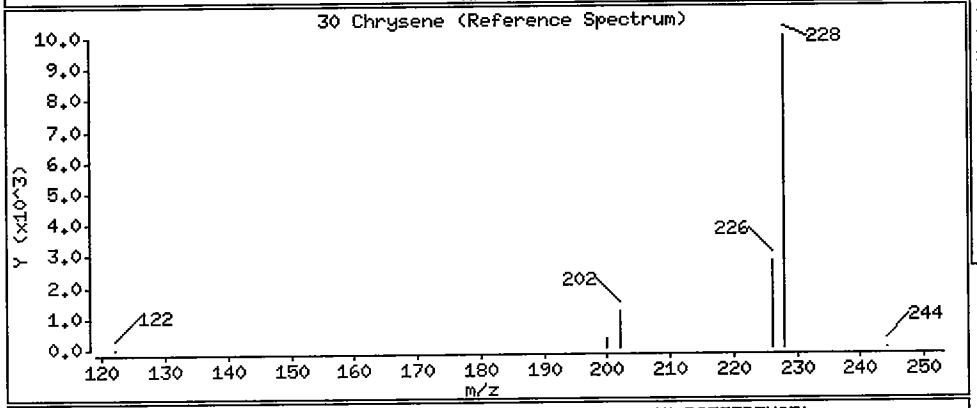
Concentration: 17 ug/Kg

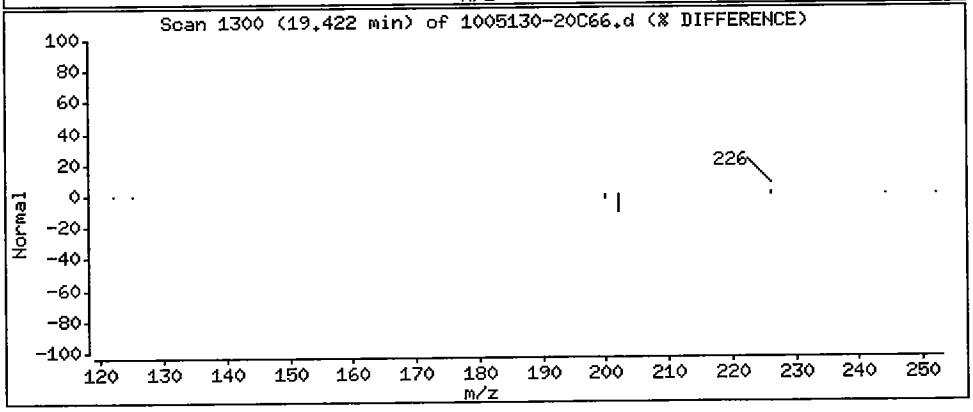












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

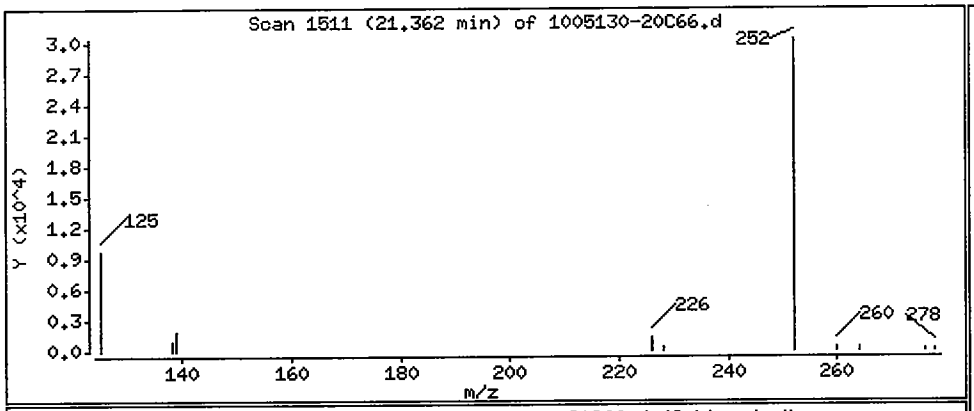
Operator: 2743

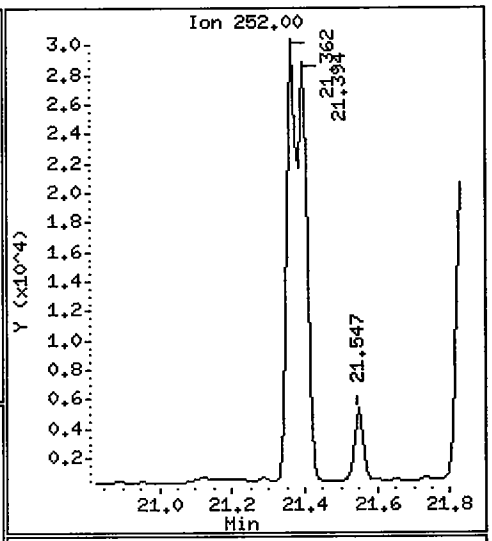
Column phase: Rtx-5MS

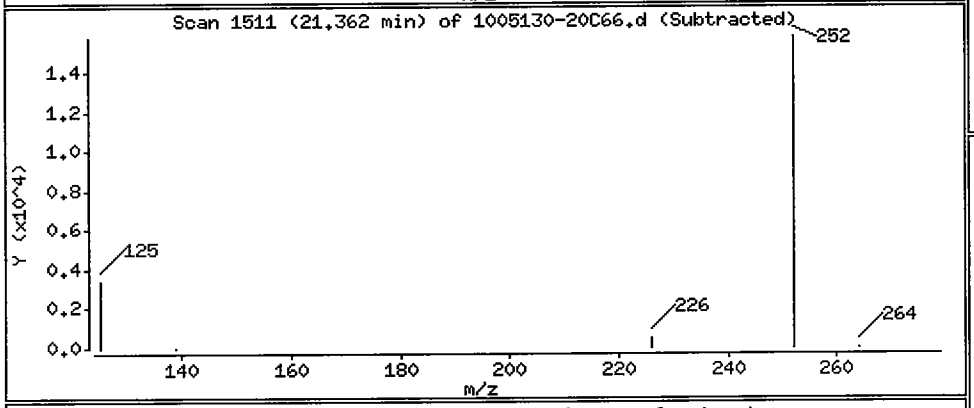
Column diameter: 0.32

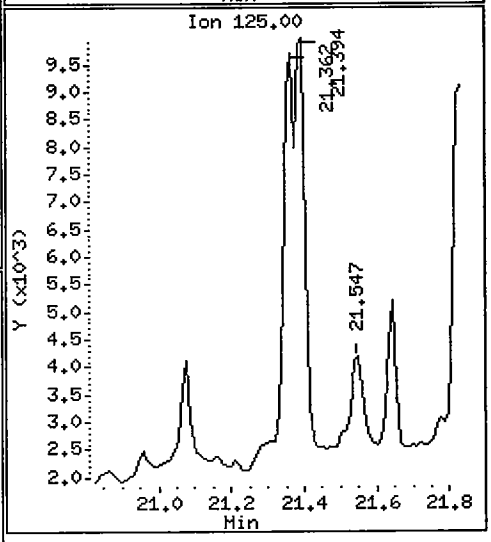
31 Benzo(b)fluoranthene

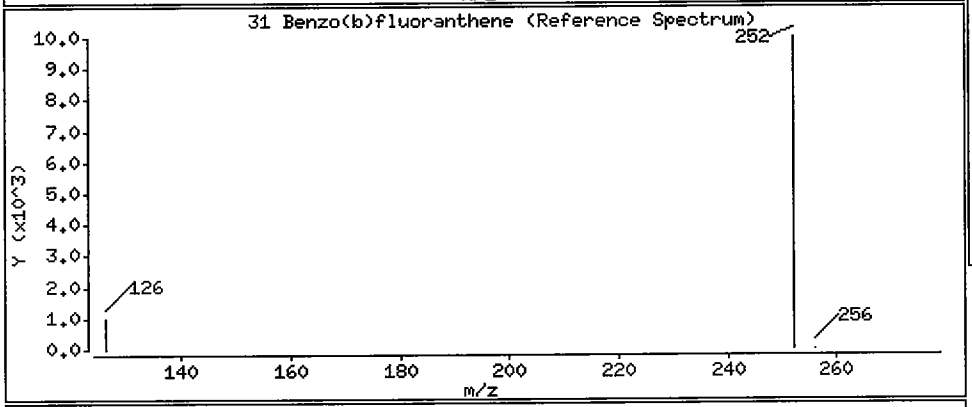
Concentration: 17 ug/Kg

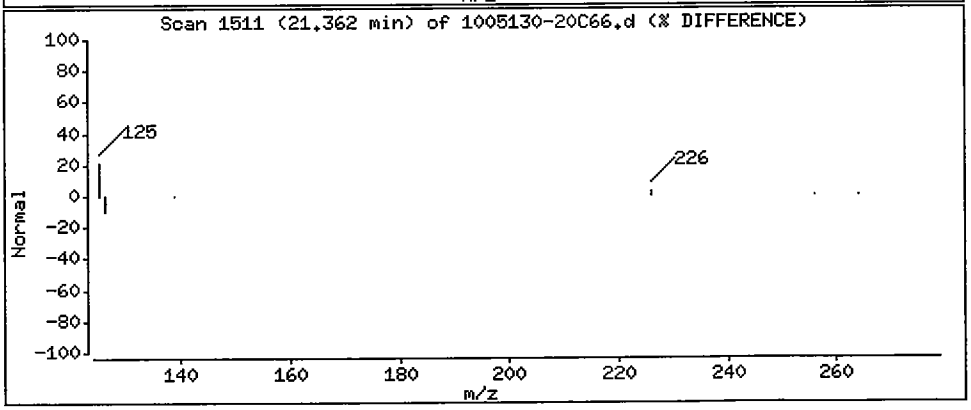












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

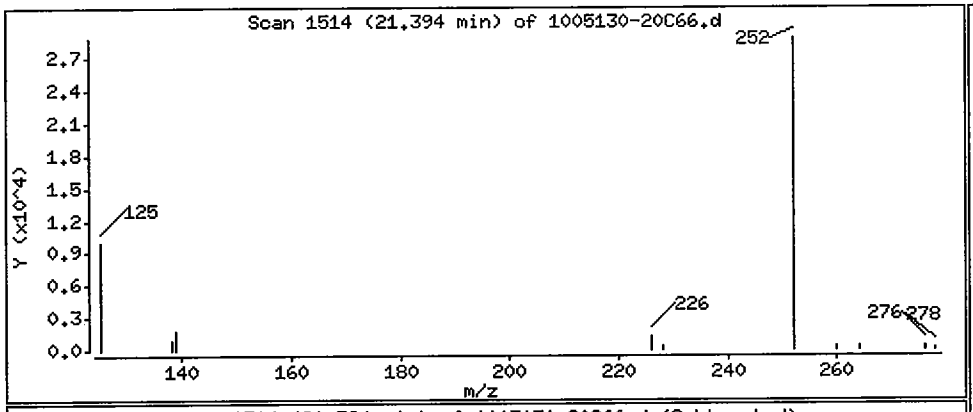
Operator: 2743

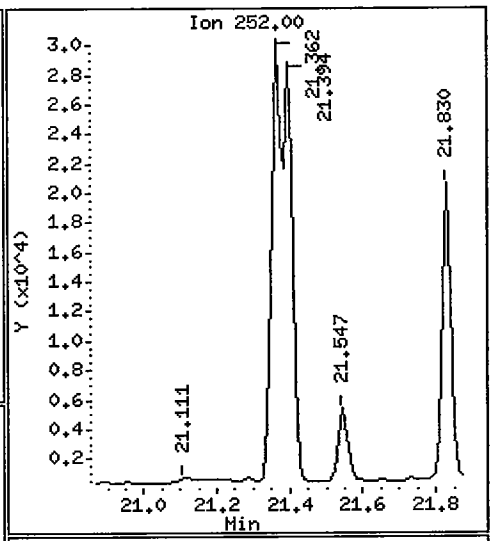
Column phase: Rtx-5MS

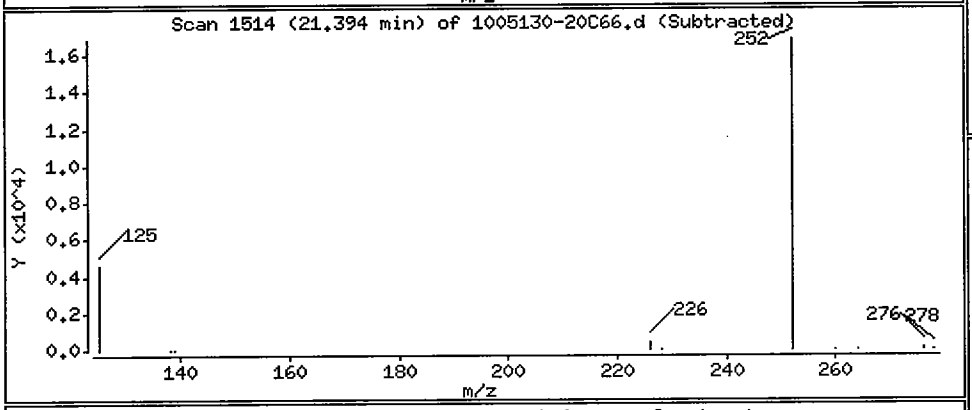
Column diameter: 0.32

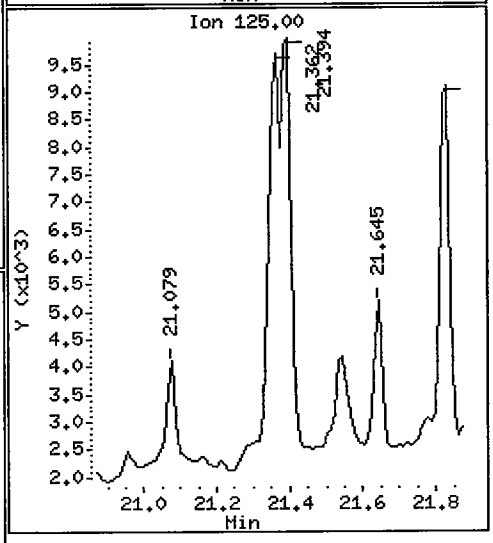
32 Benzo(k)fluoranthene

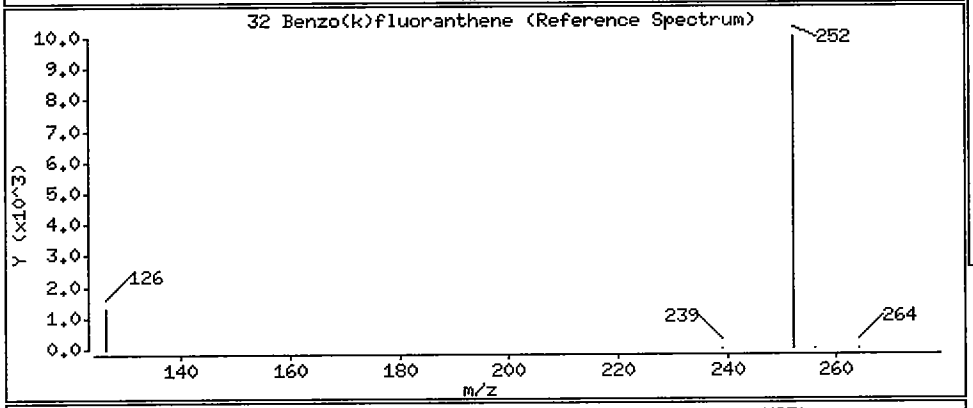
Concentration: 13 ug/Kg

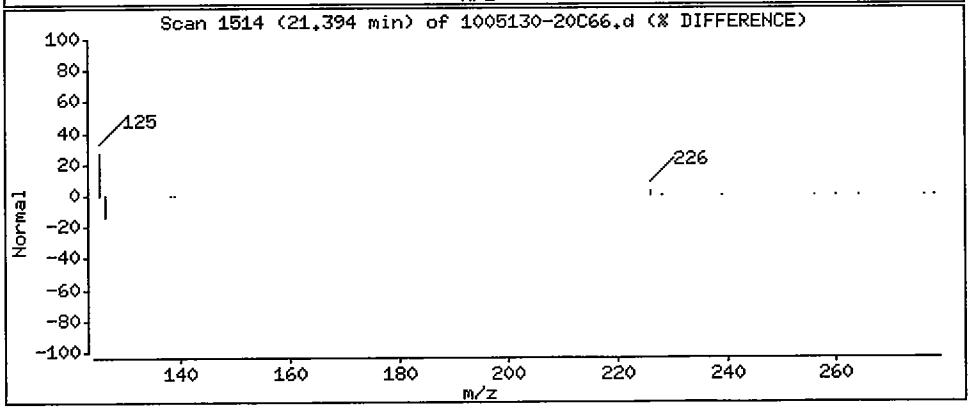












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

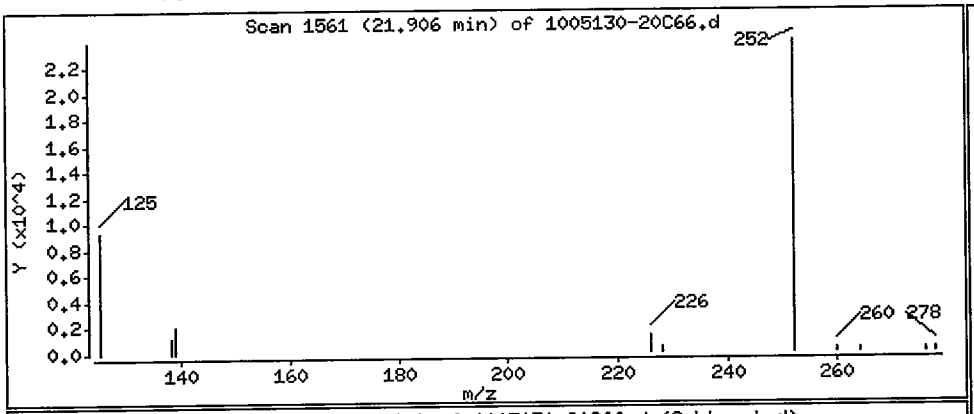
Operator: 2743

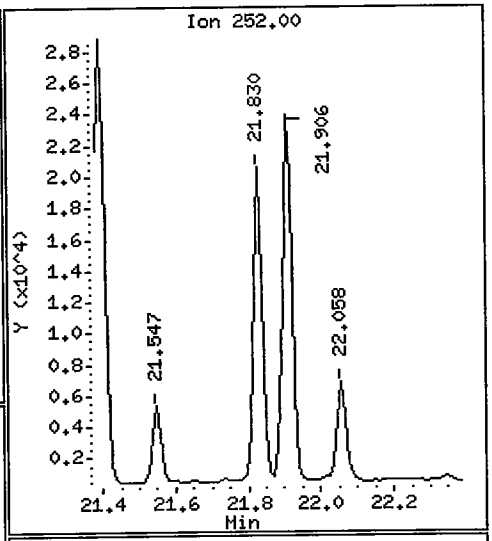
Column phase: Rtx-5MS

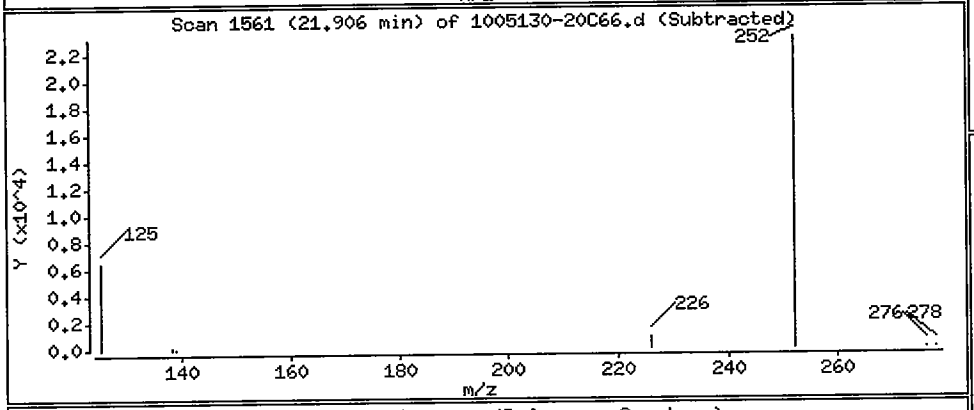
Column diameter: 0.32

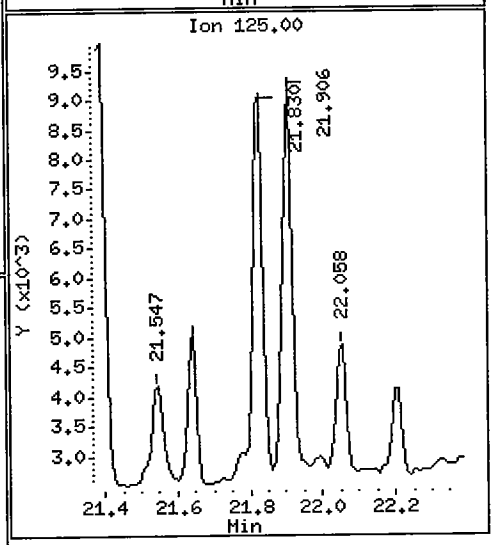
33 Benzo(a)pyrene

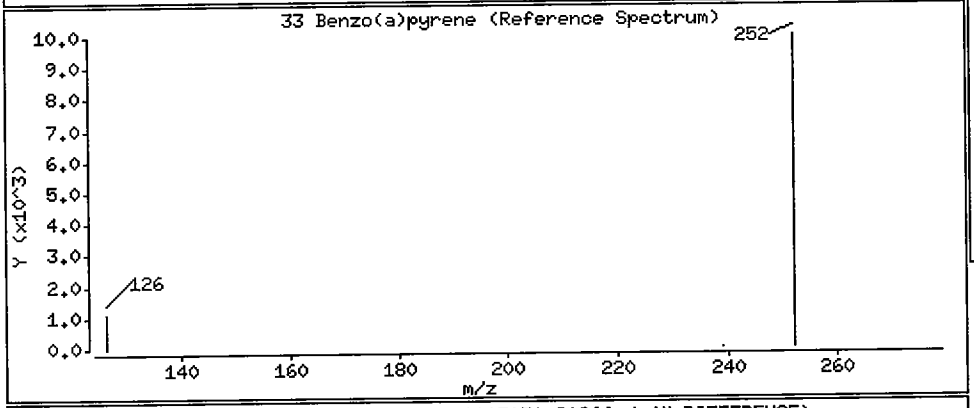
Concentration: 12 ug/Kg

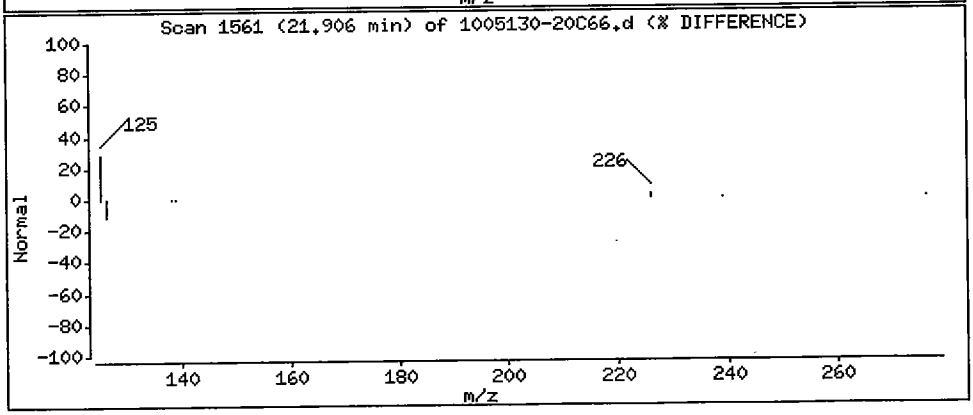












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

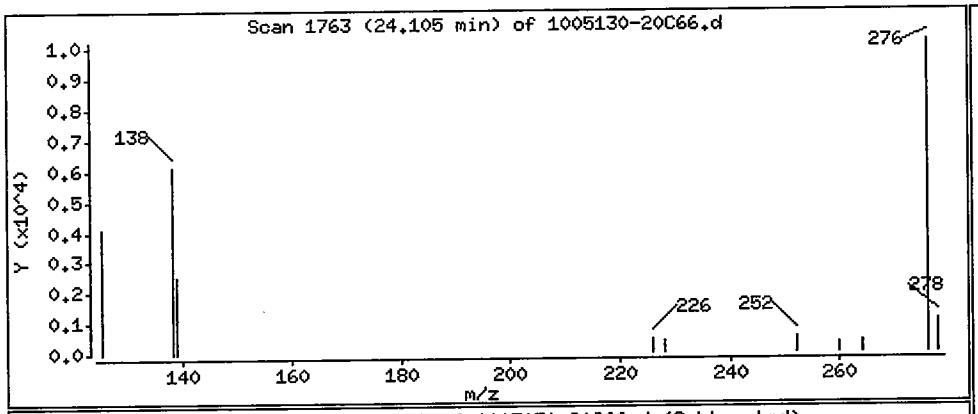
Operator: 2743

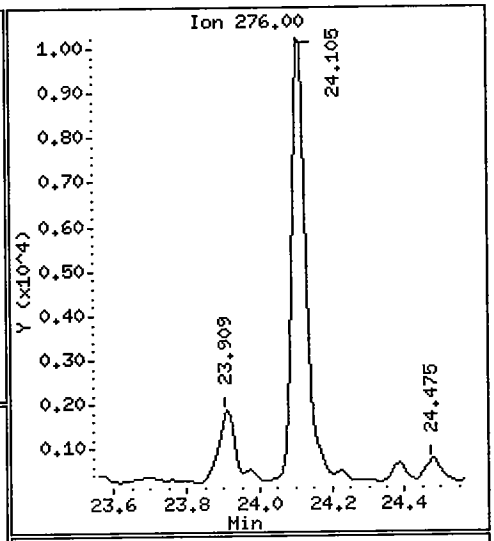
Column phase: Rtx-5MS

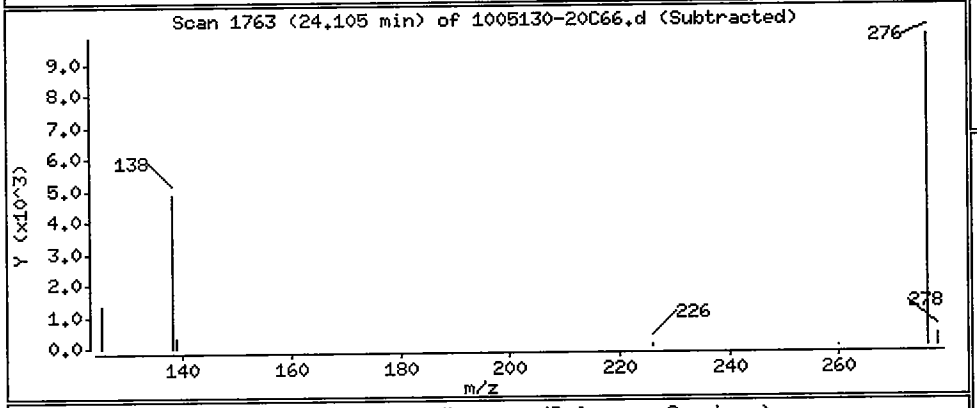
Column diameter: 0.32

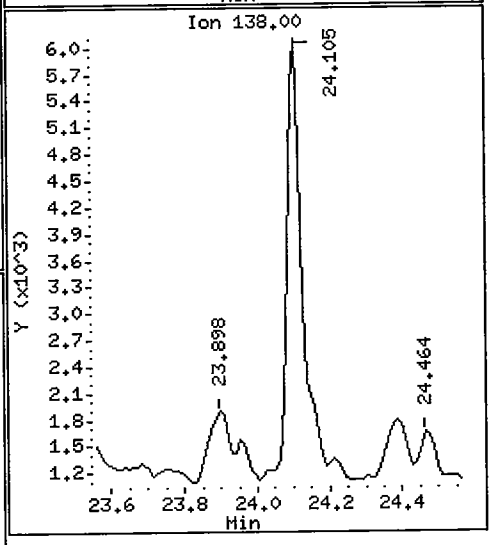
34 Indeno(1,2,3-cd)pyrene

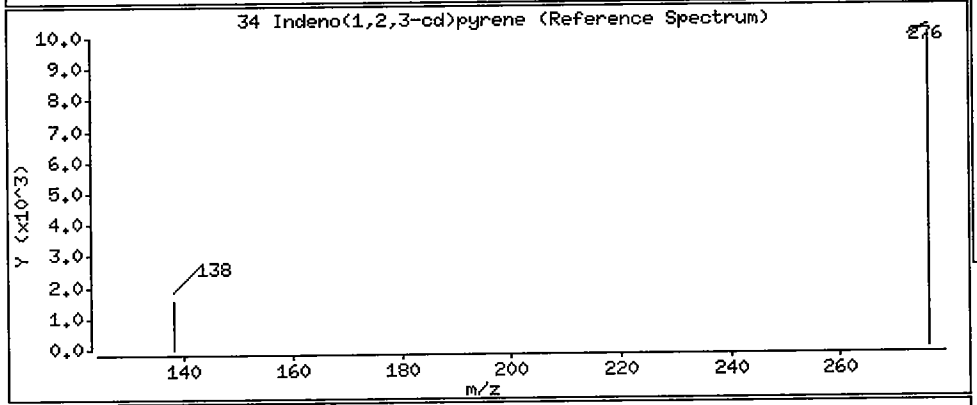
Concentration: 9.5 ug/Kg

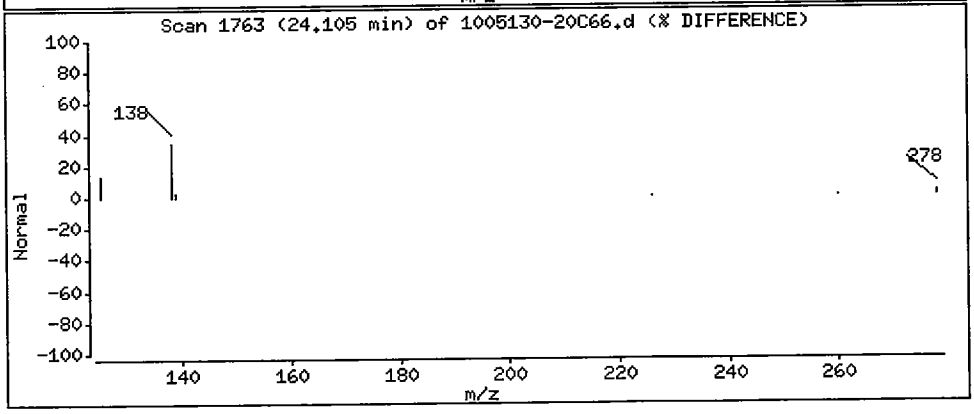












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

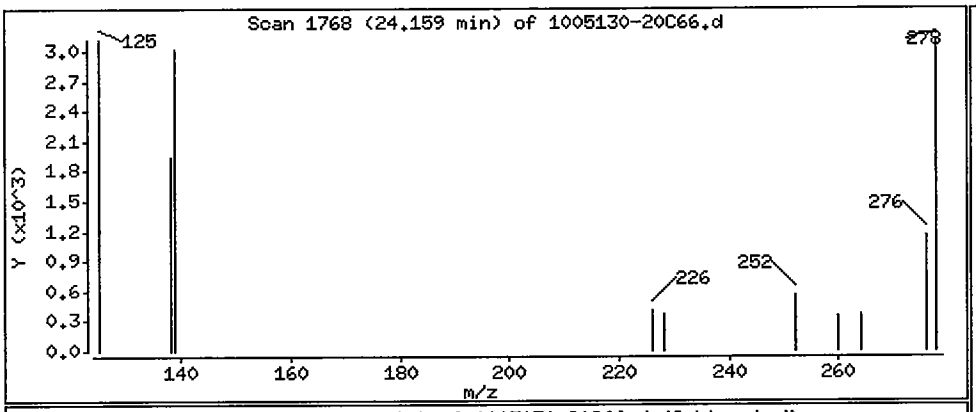
Operator: 2743

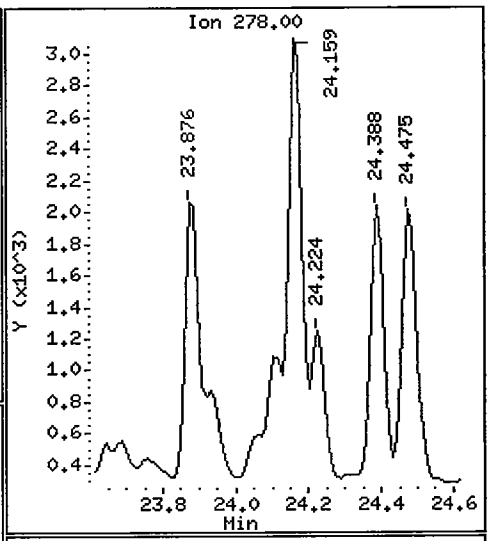
Column phase: Rtx-5MS

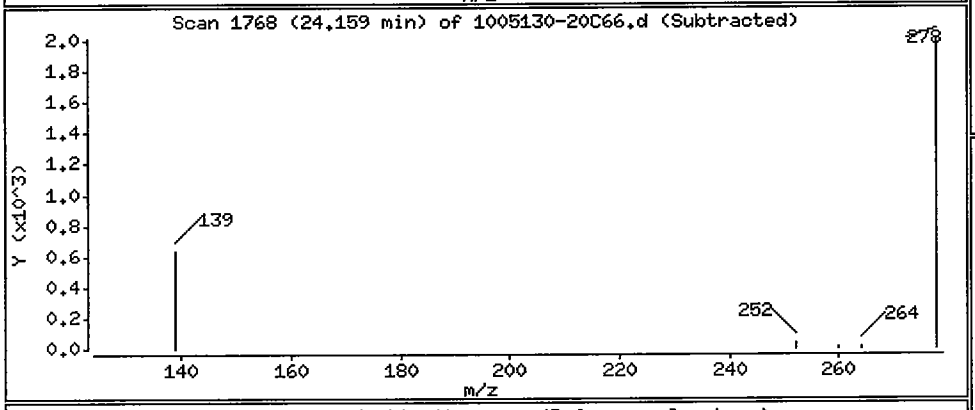
Column diameter: 0.32

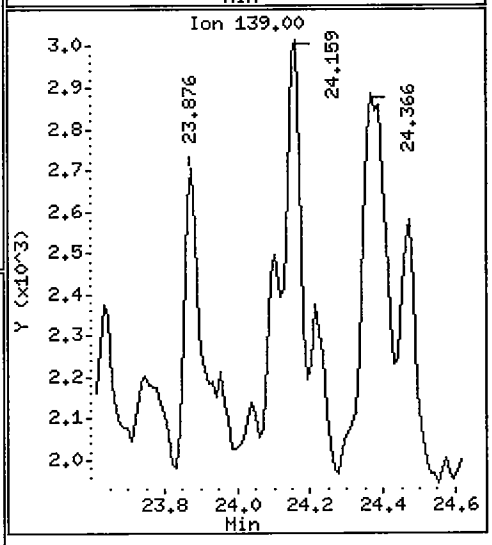
35 Dibenzo(a,h)anthracene

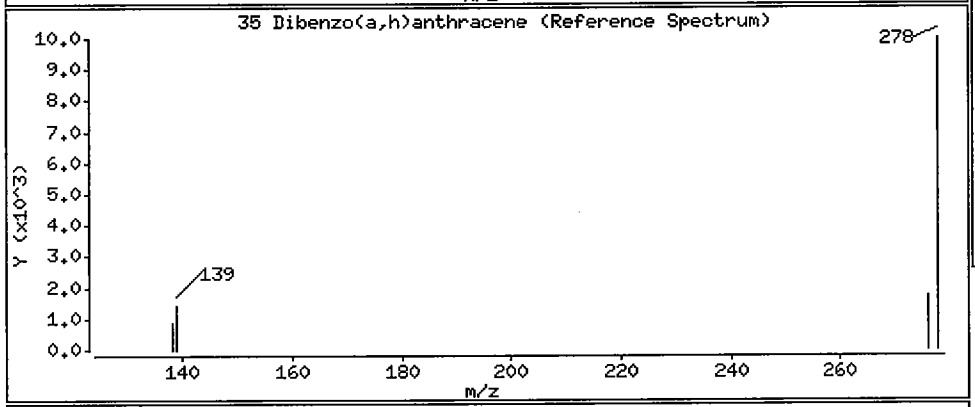
Concentration: 2.7 ug/Kg

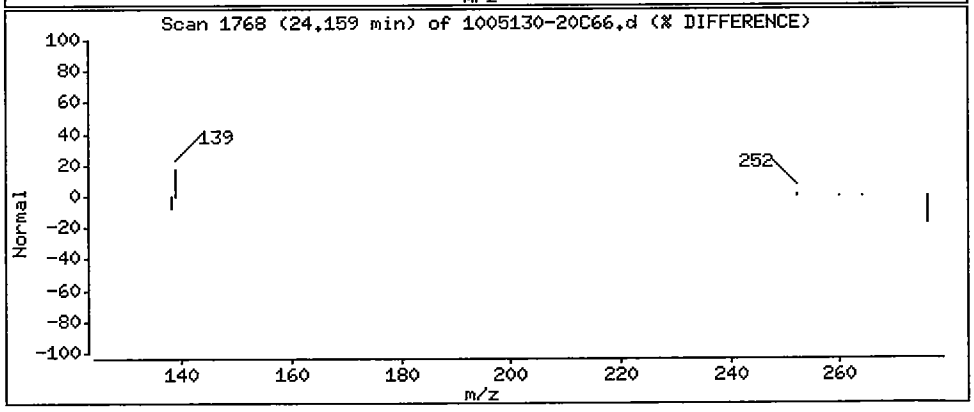












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-20C66.d

Date : 01-JUN-2010 10:03

Client ID: SS05-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-20:2743

Volume Injected (uL): 2.0

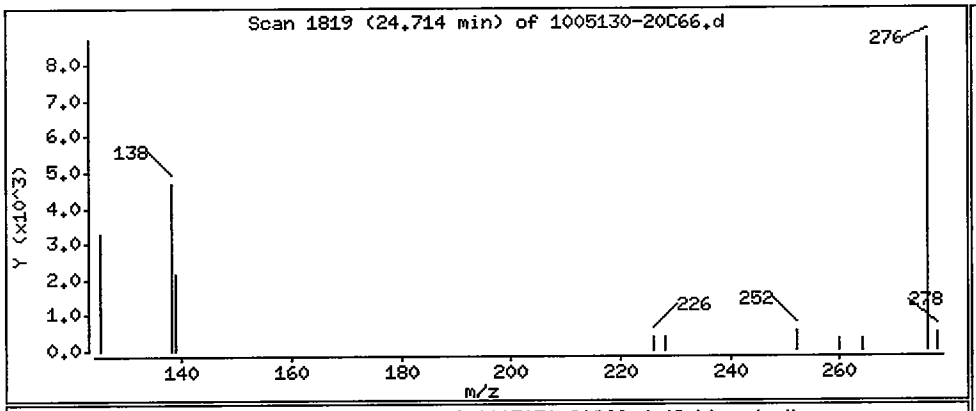
Operator: 2743

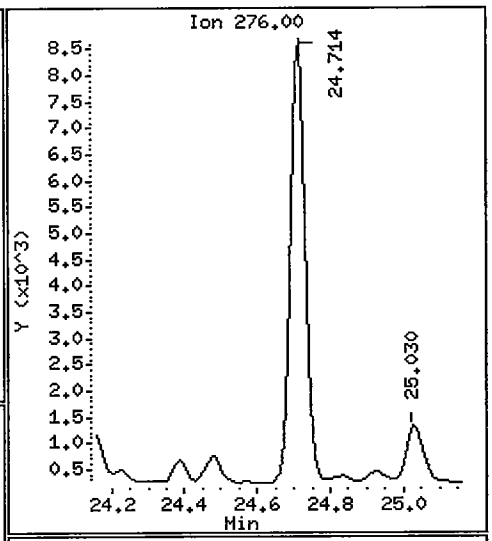
Column phase: Rtx-5MS

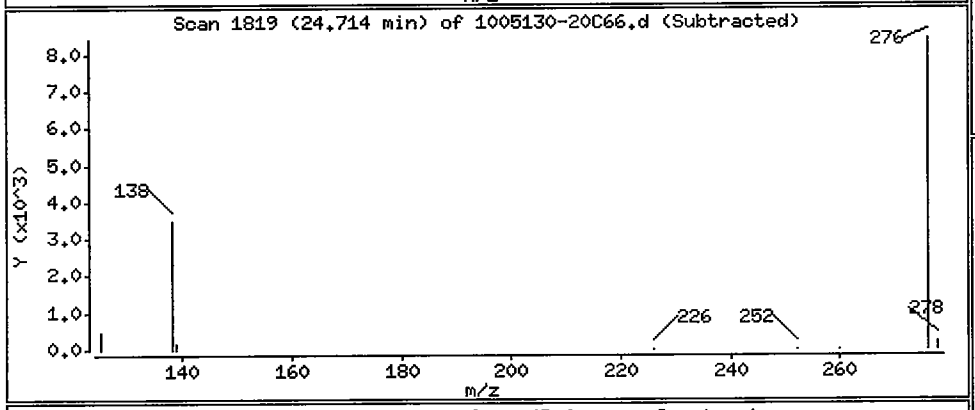
Column diameter: 0.32

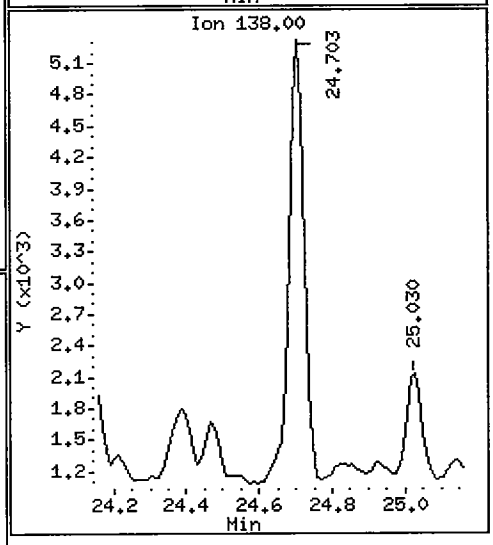
36 Benzo(g,h,i)perylene

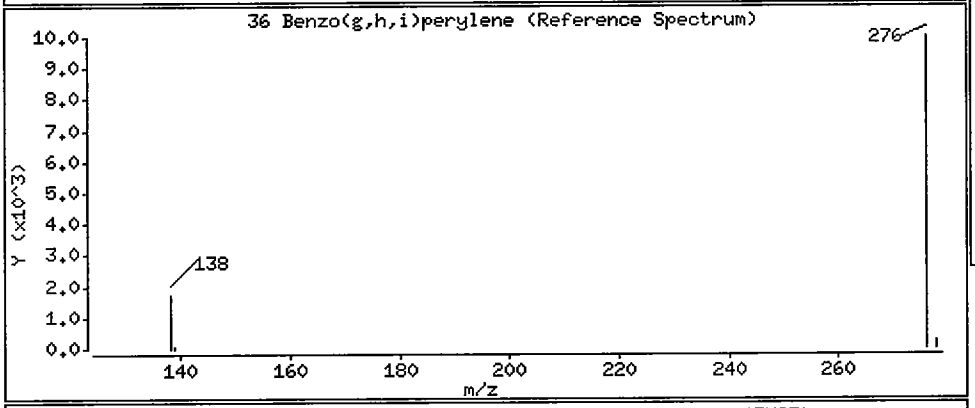
Concentration: 7.4 ug/Kg

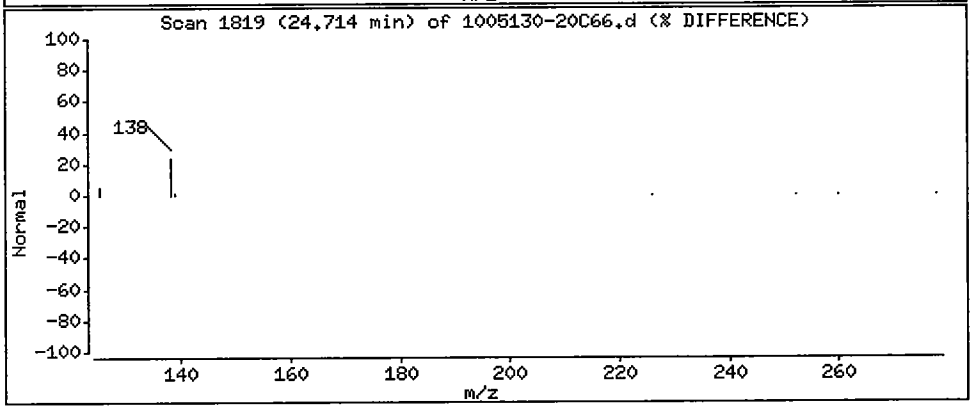












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS05-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/14/10

Lab Sample ID: 1005130-20RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-20RJA66
Analyst: MEW

% Moisture: 21 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

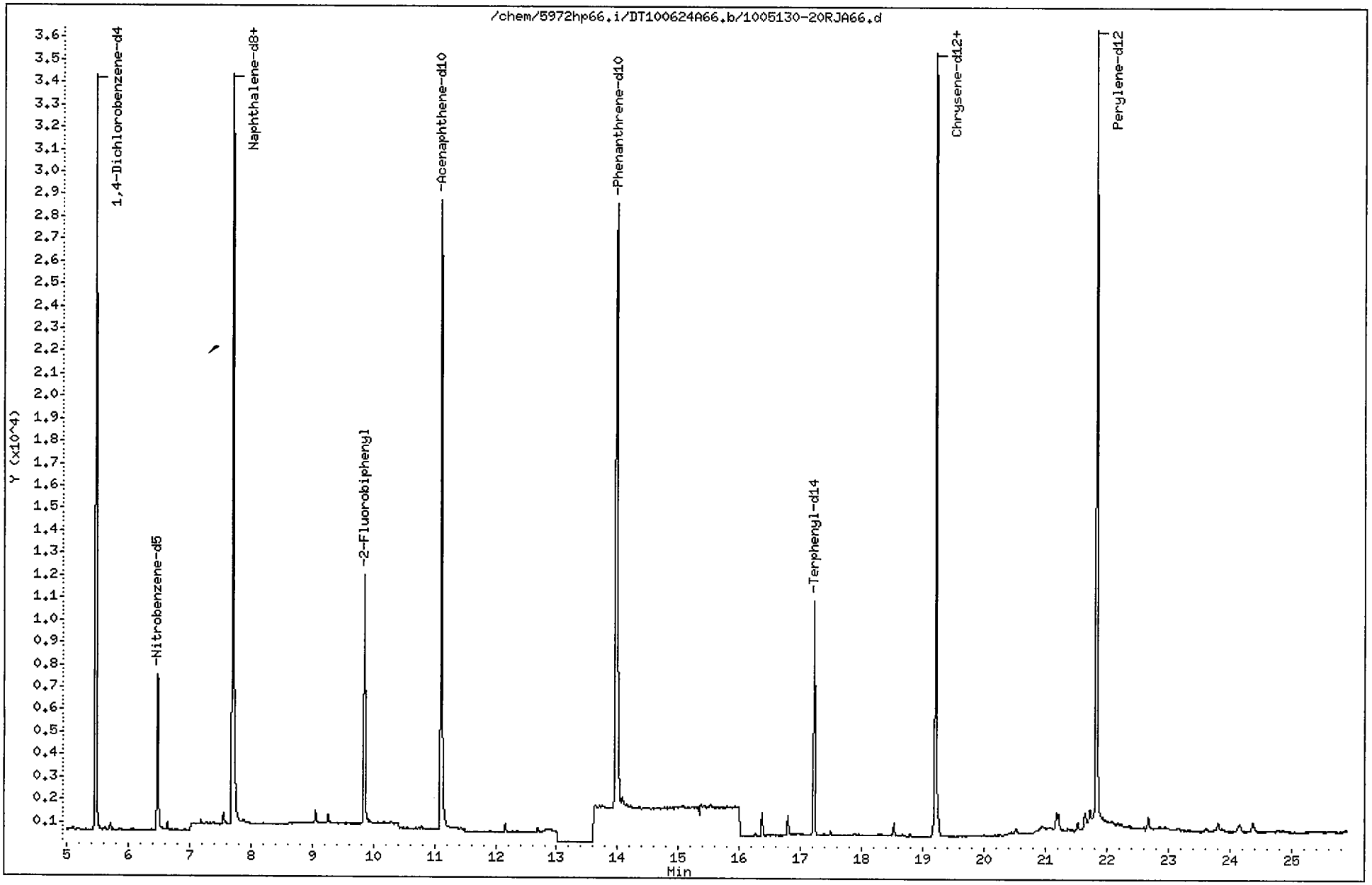
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.91	11	2.1	JB
91-57-6	2-Methylnaphthalene	0.86	11	ND	U
208-96-8	Acenaphthylene	0.68	11	ND	U
83-32-9	Acenaphthene	0.76	11	ND	U
86-73-7	Fluorene	0.57	11	ND	U
85-01-8	Phenanthrene	1.7	11	ND	U
120-12-7	Anthracene	0.55	11	ND	U
206-44-0	Fluoranthene	1.7	11	ND	U
129-00-0	Pyrene	0.72	11	0.87	J
56-55-3	Benzo(a)anthracene	0.72	11	ND	U
218-01-9	Chrysene	0.80	11	0.85	J
205-99-2	Benzo(b)fluoranthene	0.72	11	0.79	J
207-08-9	Benzo(k)fluoranthene	0.55	11	0.73	J
50-32-8	Benzo(a)pyrene	0.49	11	0.60	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	11	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	11	ND	U
191-24-2	Benzo(g,h,i)perylene	0.49	11	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Date : 24-JUN-2010 17:31
Client ID: SS05-0-1RE
Sample Info: 1005130-20RE1:MEW
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: MEW
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Report Date: 25-Jun-2010 11:10

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Lab Smp Id: 1005130-20RE1 Client Smp ID: SS05-0-1RE
Inj Date : 24-JUN-2010 17:31
Operator : MEW Inst ID: 5972hp66.i
Smp Info : 1005130-20RE1:MEW
Misc Info : SS05-0-1RE
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100624A66.b/SIM_8270Cv3DOD.m
Meth Date : 25-Jun-2010 10:58 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	21.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.470	5.451	(1.000)	20710	2.00000		(a)
* 2 Naphthalene-d8	136	7.694	7.694	(1.000)	54321	2.00000		(a)
* 3 Acenaphthene-d10	164	11.105	11.104	(1.000)	26095	2.00000		(a)
* 4 Phenanthrene-d10	188	13.980	13.968	(1.000)	43782	2.00000		(a)
* 5 Chrysene-d12	240	19.205	19.204	(1.000)	47023	2.00000		(a)
* 6 Perylene-d12	264	21.829	21.824	(1.000)	47969	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.476	6.461	(0.842)	7866	0.59090	12	(M)
$ 10 2-Fluorobiphenyl	172	9.851	9.846	(0.887)	13257	0.64164	14	
$ 12 Terphenyl-d14	244	17.218	17.217	(0.897)	13275	0.90776	19	(M)
13 Naphthalene	128	7.729	7.718	(1.004)	3206	0.10109	2.1	(a)
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

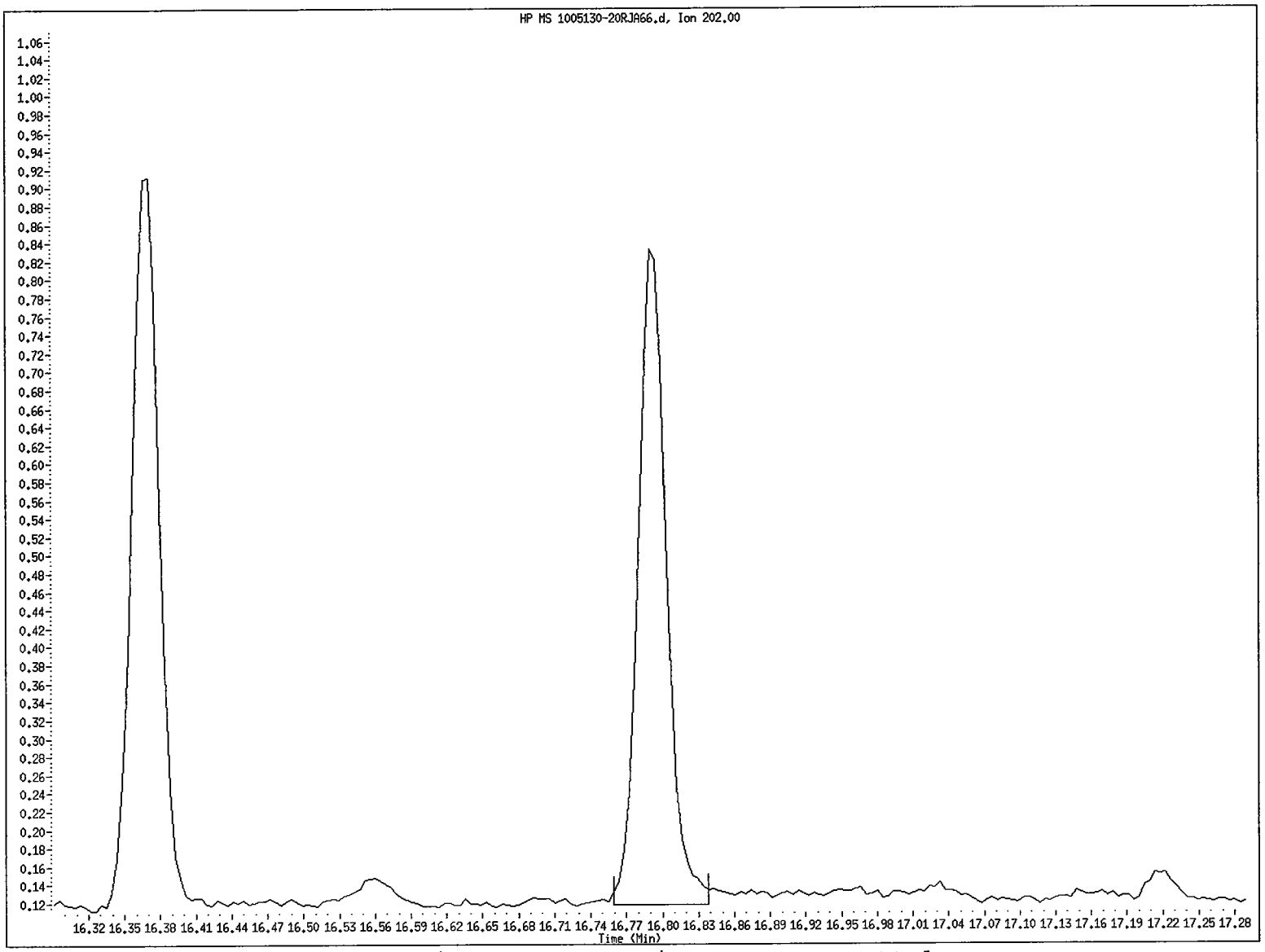
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Report Date: 25-Jun-2010 11:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.790	16.789	(0.874)	1184	0.04143	0.87(aM)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	19.253	19.253	(1.003)	924	0.04026	0.85(a)
31 Benzo(b)fluoranthene	252	21.180	21.176	(0.970)	991	0.03744	0.79(a)
32 Benzo(k)fluoranthene	252	21.215	21.220	(0.972)	989	0.03441	0.73(aM)
33 Benzo(a)pyrene	252	21.723	21.718	(0.995)	714	0.02861	0.60(aM)
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

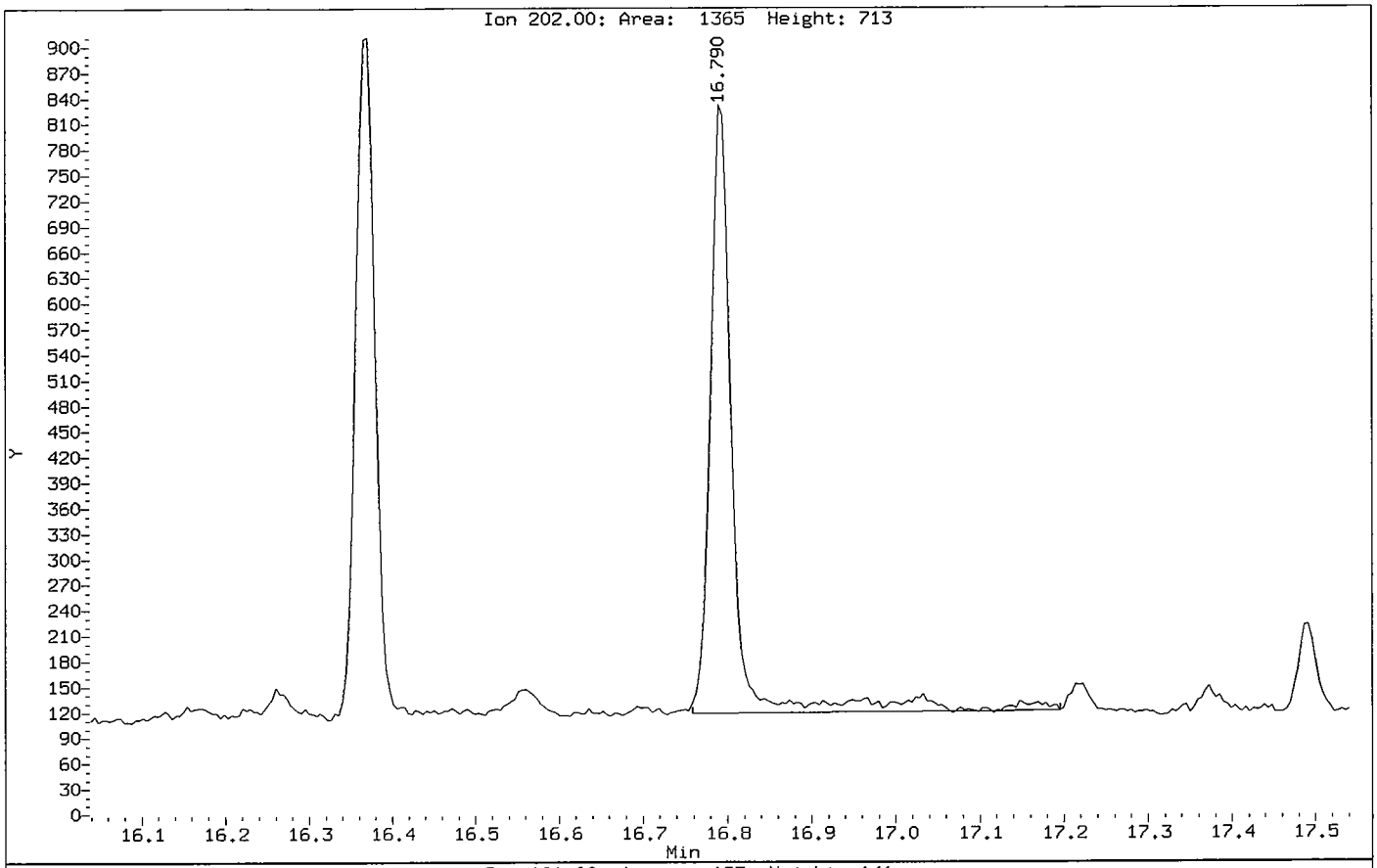
Pyrene CAS Number 129-00-0 Area = 1184 Manually integrated

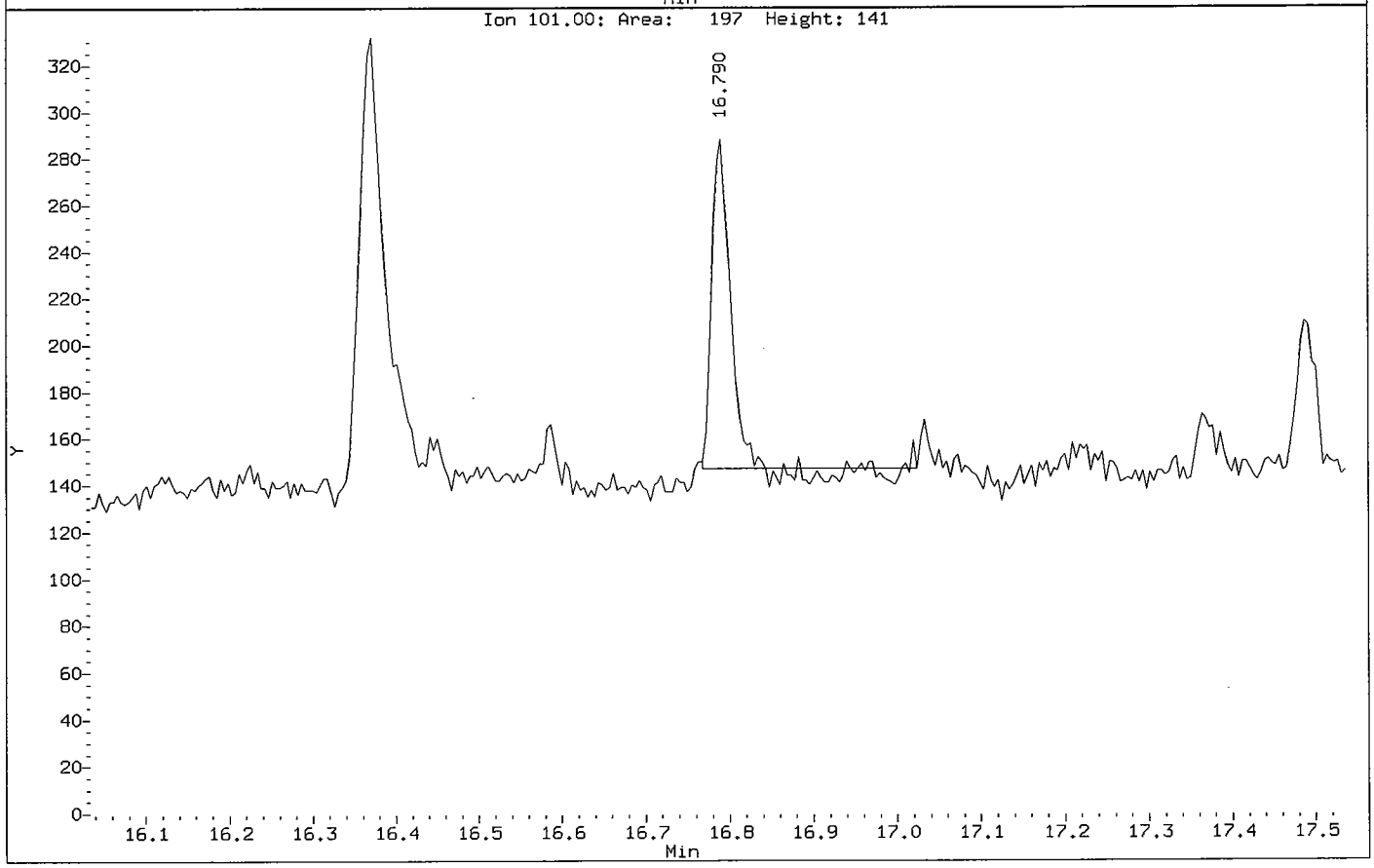


File name: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Client ID: SS05-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 17:31
Retention Time: 16.79
Operator ID: MEW

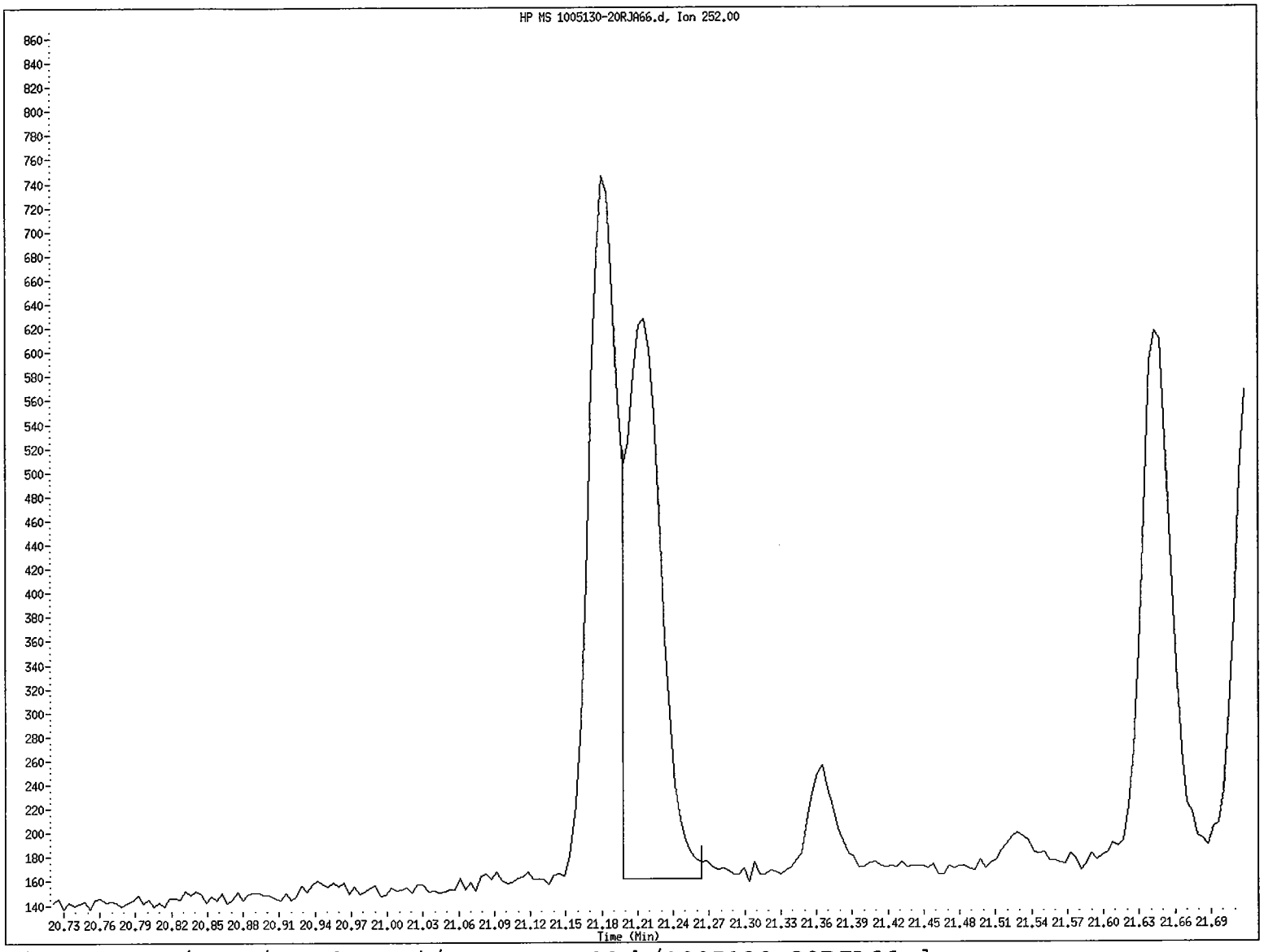
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Injection Date: 24-JUN-2010 17:31
Instrument: 5972hp66.i
Client Sample ID: SS05-0-1RE

Compound: Pyrene
CAS Number: 129-00-0





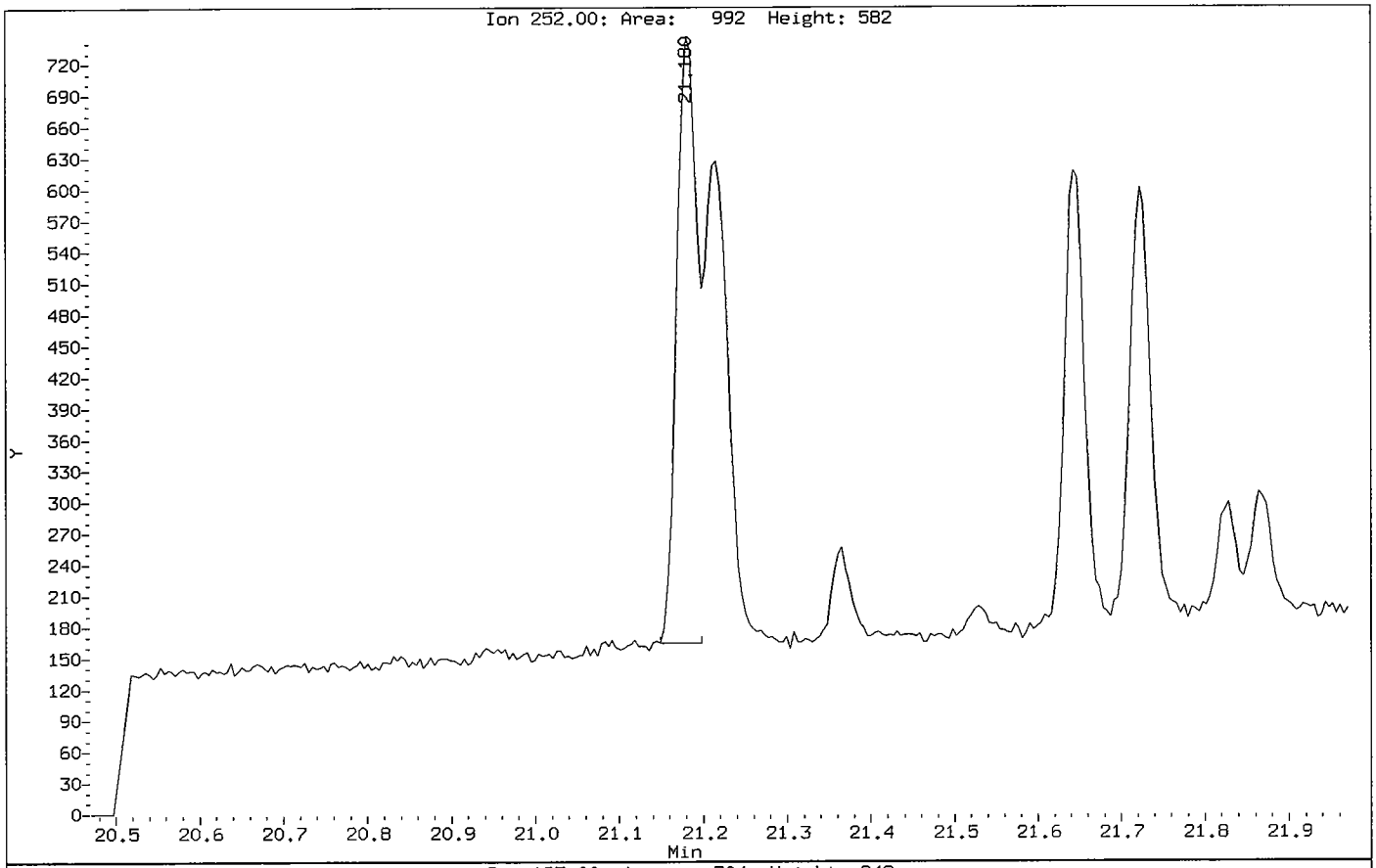
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 989 Manually integrated

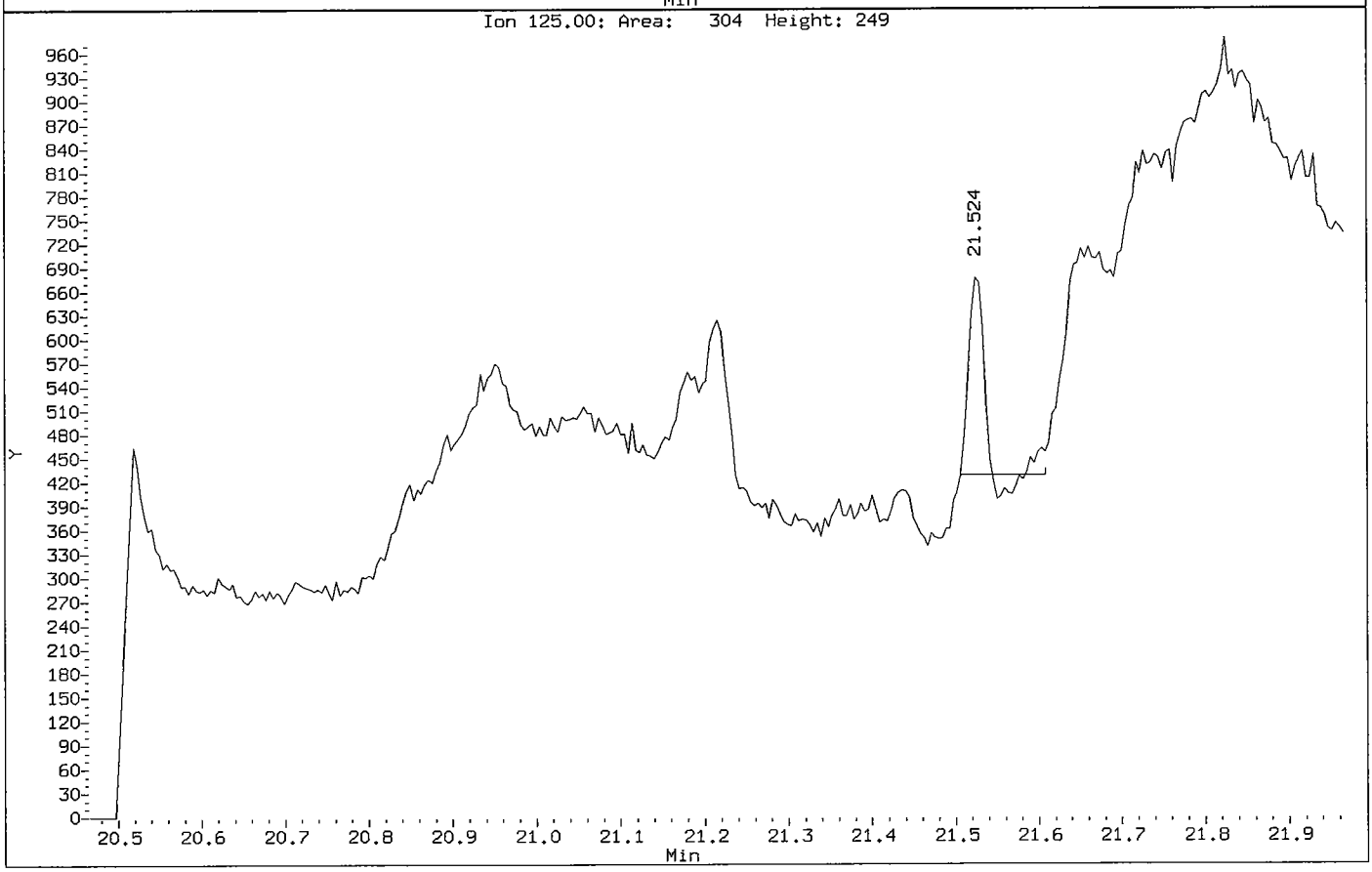


File name: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Client ID: SS05-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 17:31
Retention Time: 21.22
Operator ID: MEW

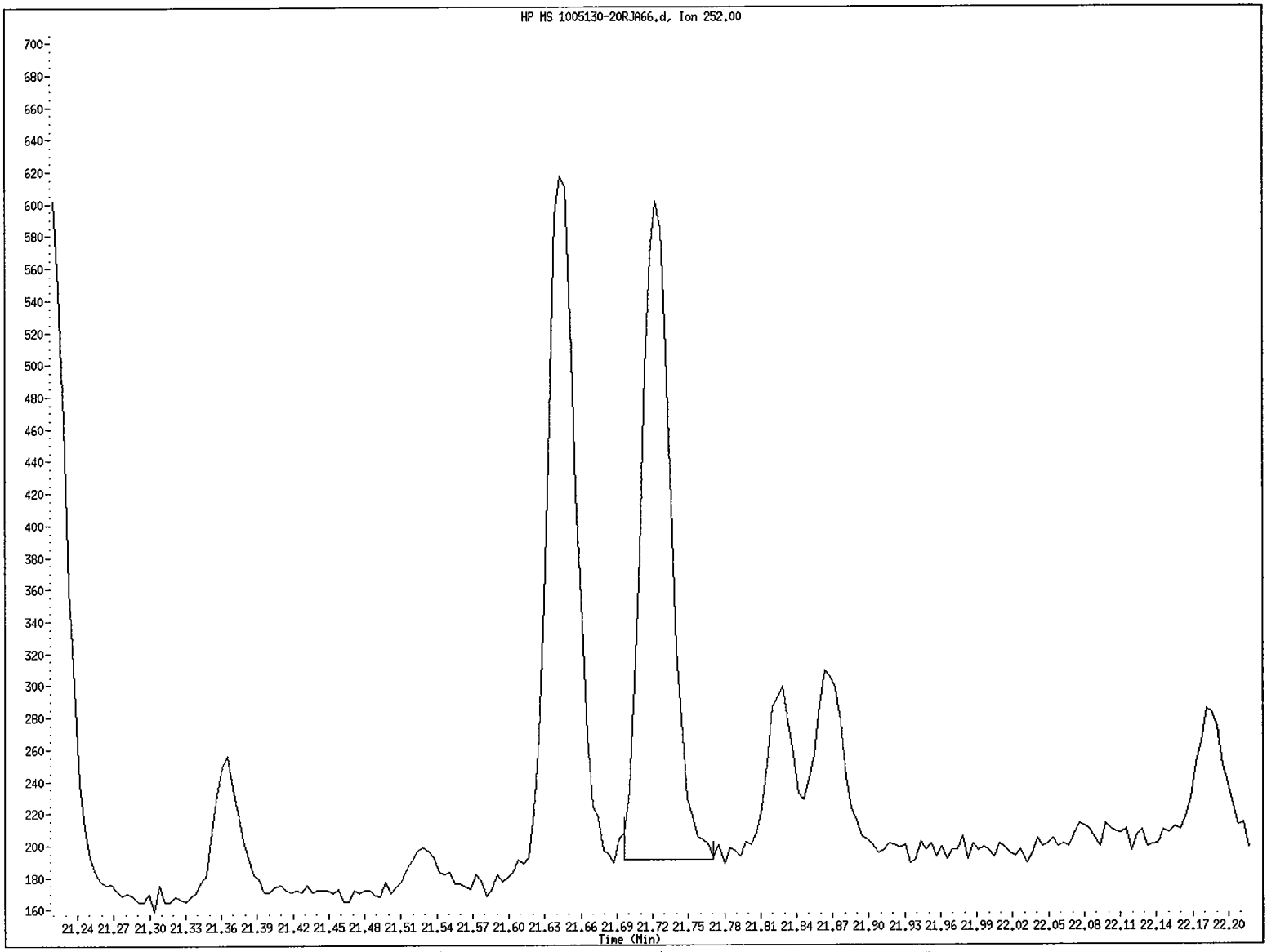
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Injection Date: 24-JUN-2010 17:31
Instrument: 5972hp66.i
Client Sample ID: SS05-0-1RE

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





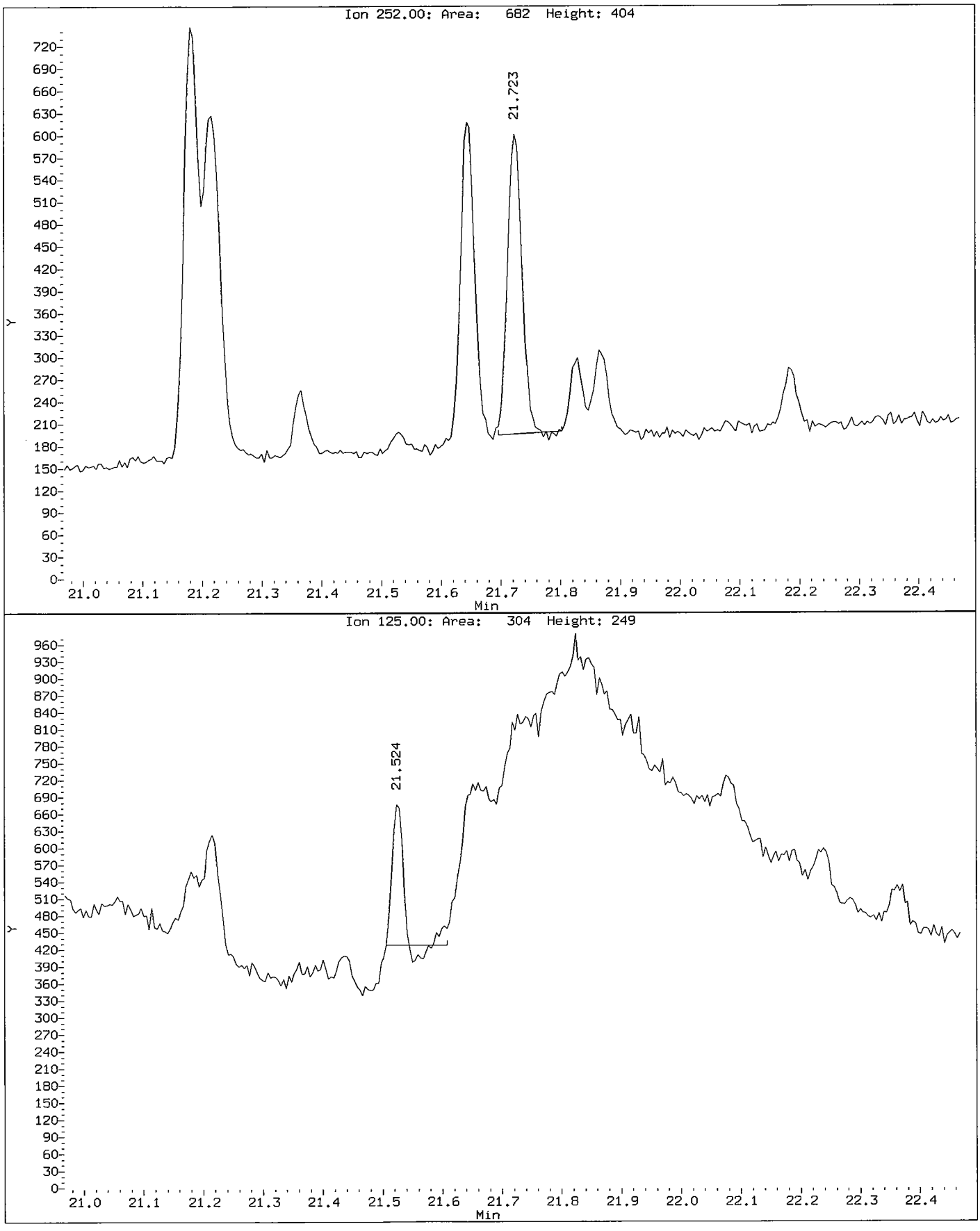
Benzo(a)pyrene CAS Number 50-32-8 Area = 714 Manually integrated



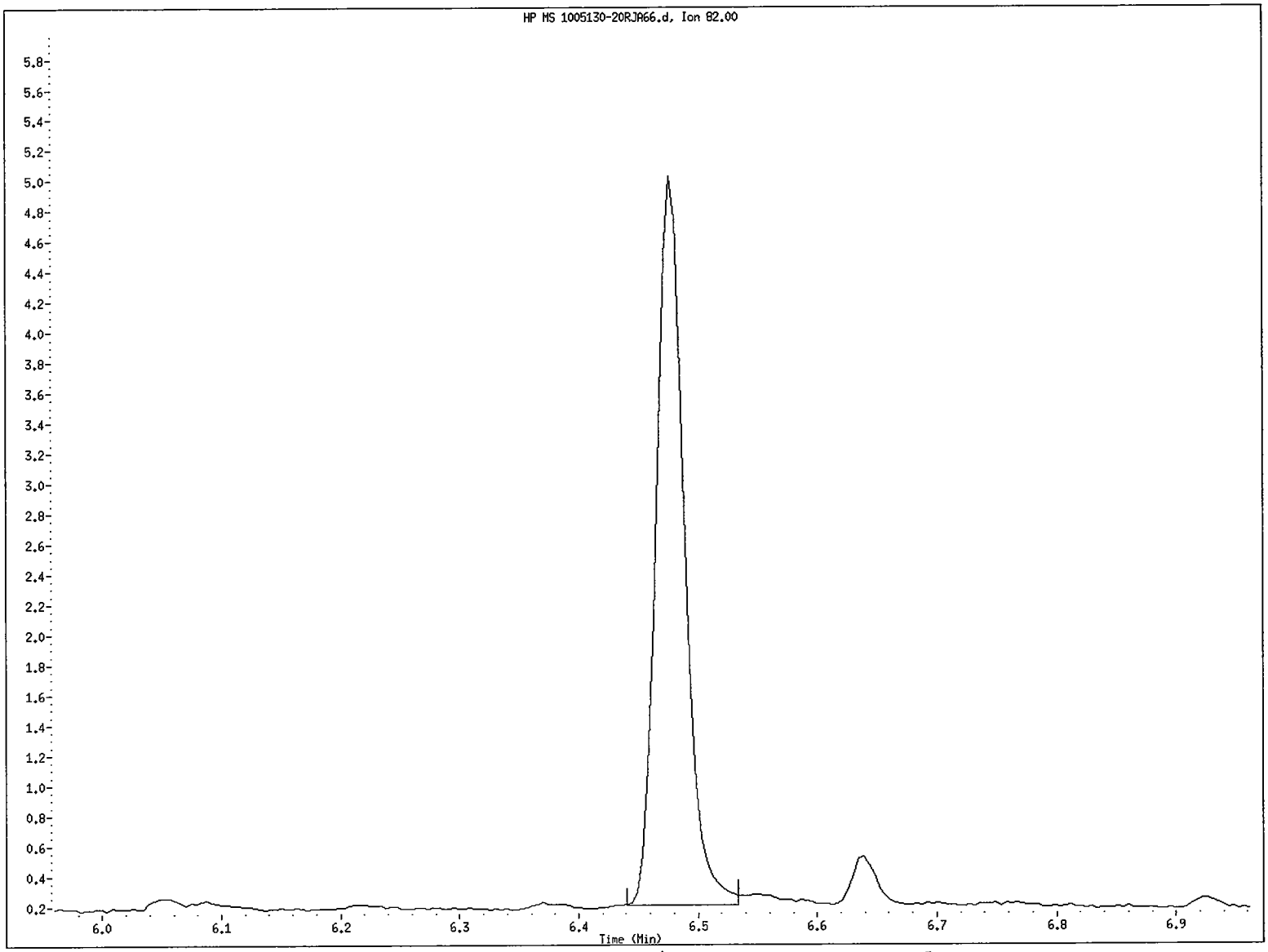
File name: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Client ID: SS05-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 17:31
Retention Time: 21.72
Operator ID: MEW

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Injection Date: 24-JUN-2010 17:31
Instrument: 5972hp66.i
Client Sample ID: SS05-0-1RE

Compound: Benzo(a)pyrene
CAS Number: 50-32-8



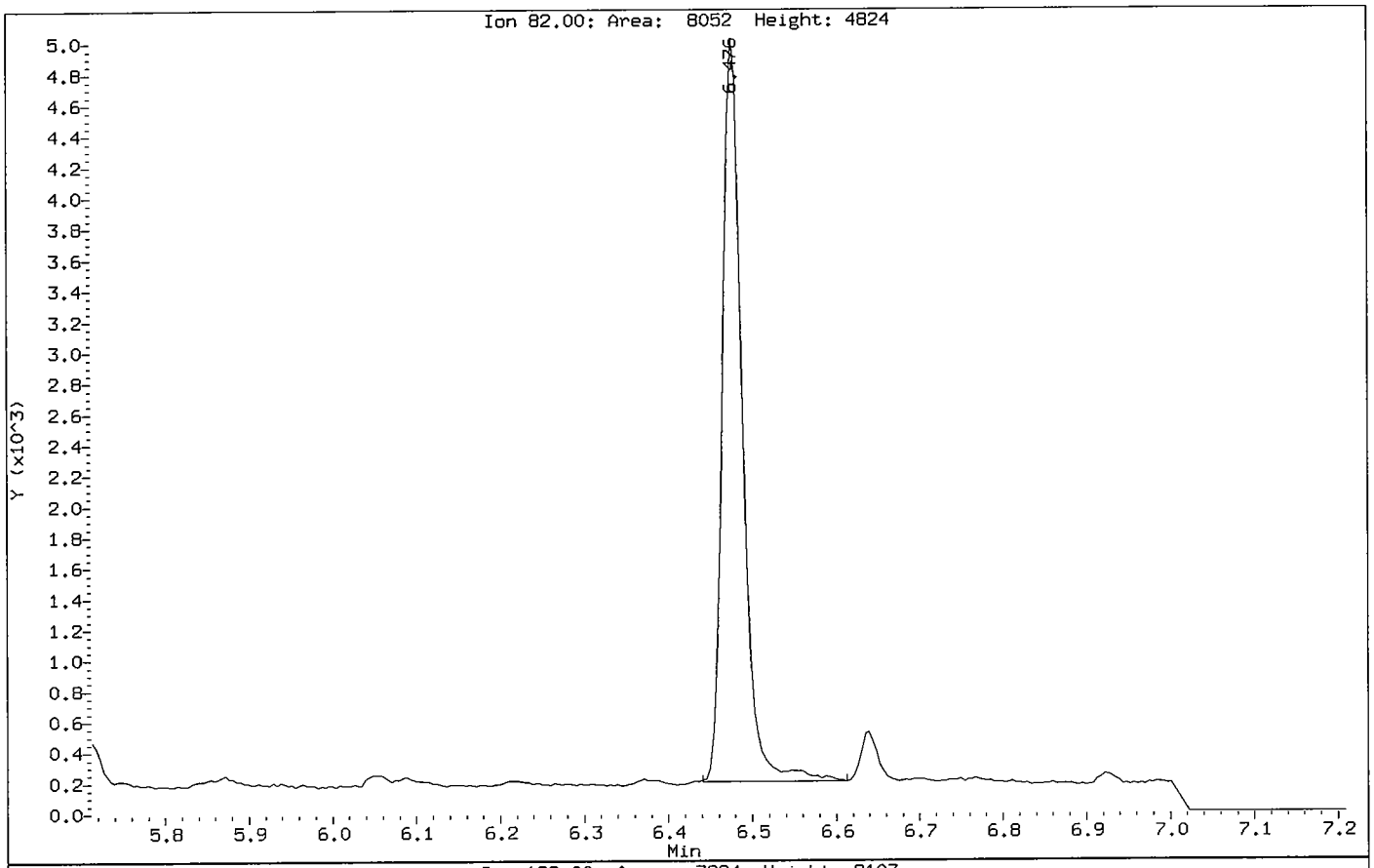
Nitrobenzene-d5 CAS Number 4165-60-0 Area = 7866 Manually integrated

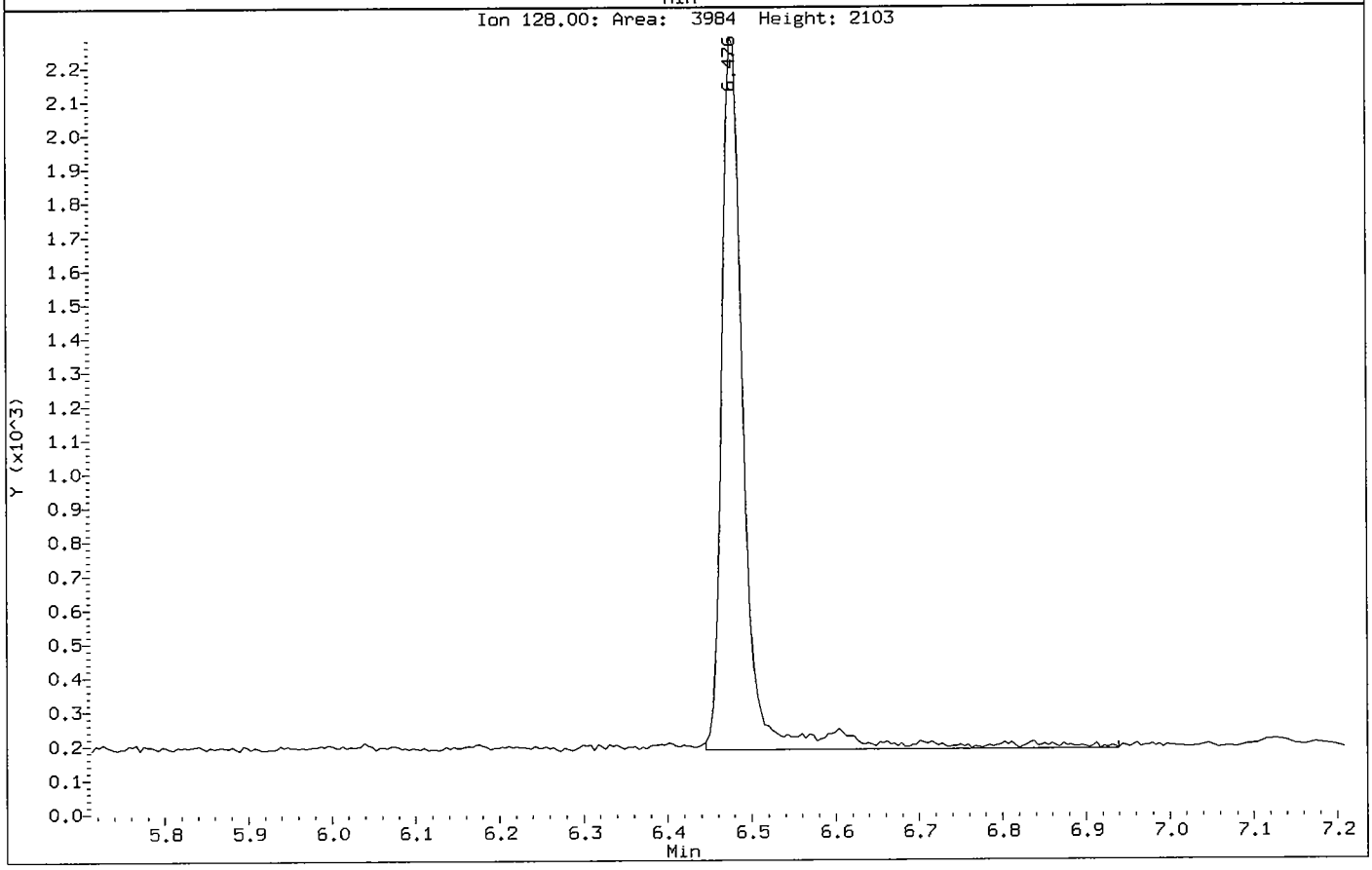


File name: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Client ID: SS05-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 17:31
Retention Time: 6.48
Operator ID: MEW

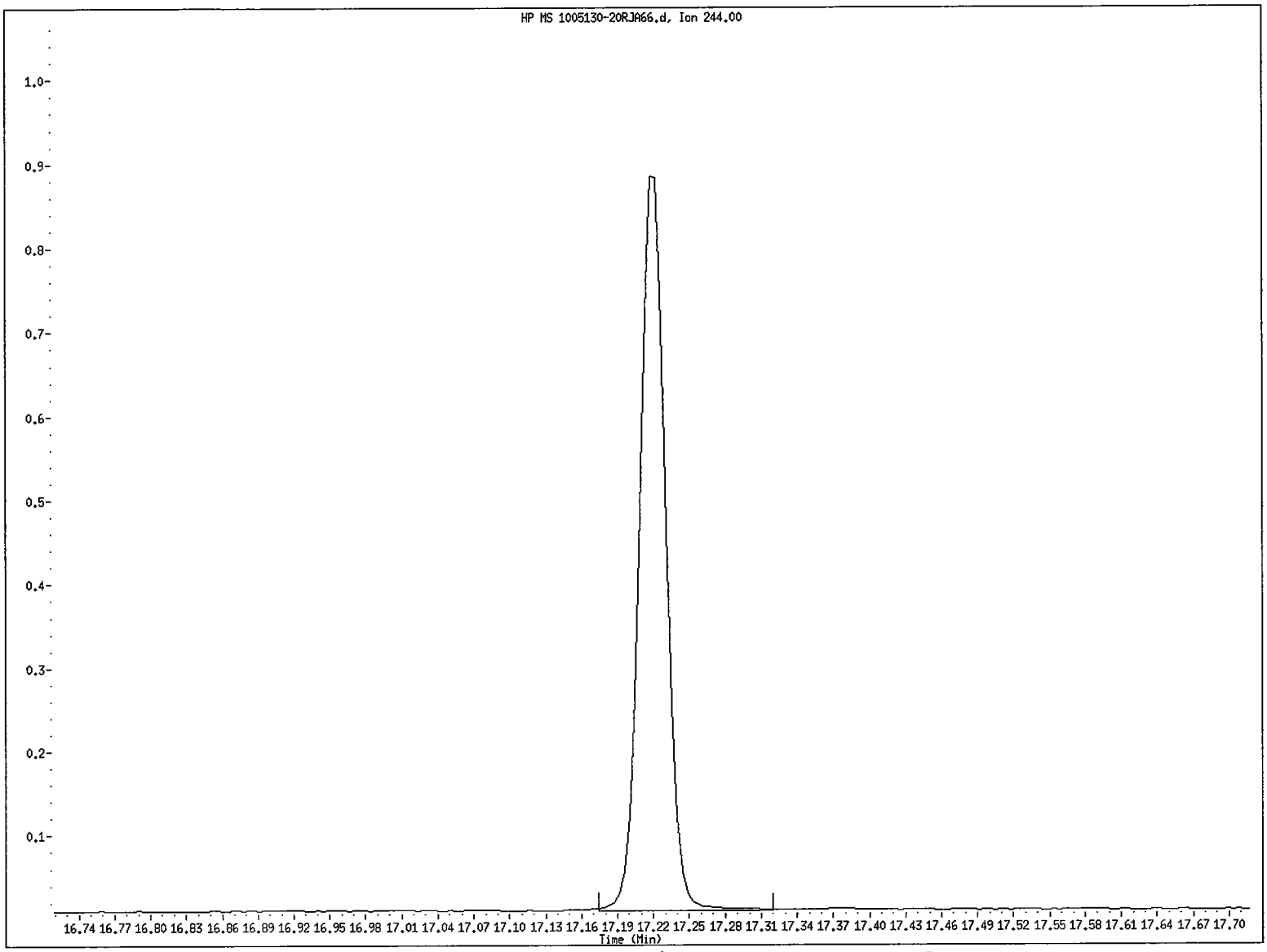
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Injection Date: 24-JUN-2010 17:31
Instrument: 5972hp66.i
Client Sample ID: SS05-0-1RE

Compound: Nitrobenzene-d5
CAS Number: 4165-60-0





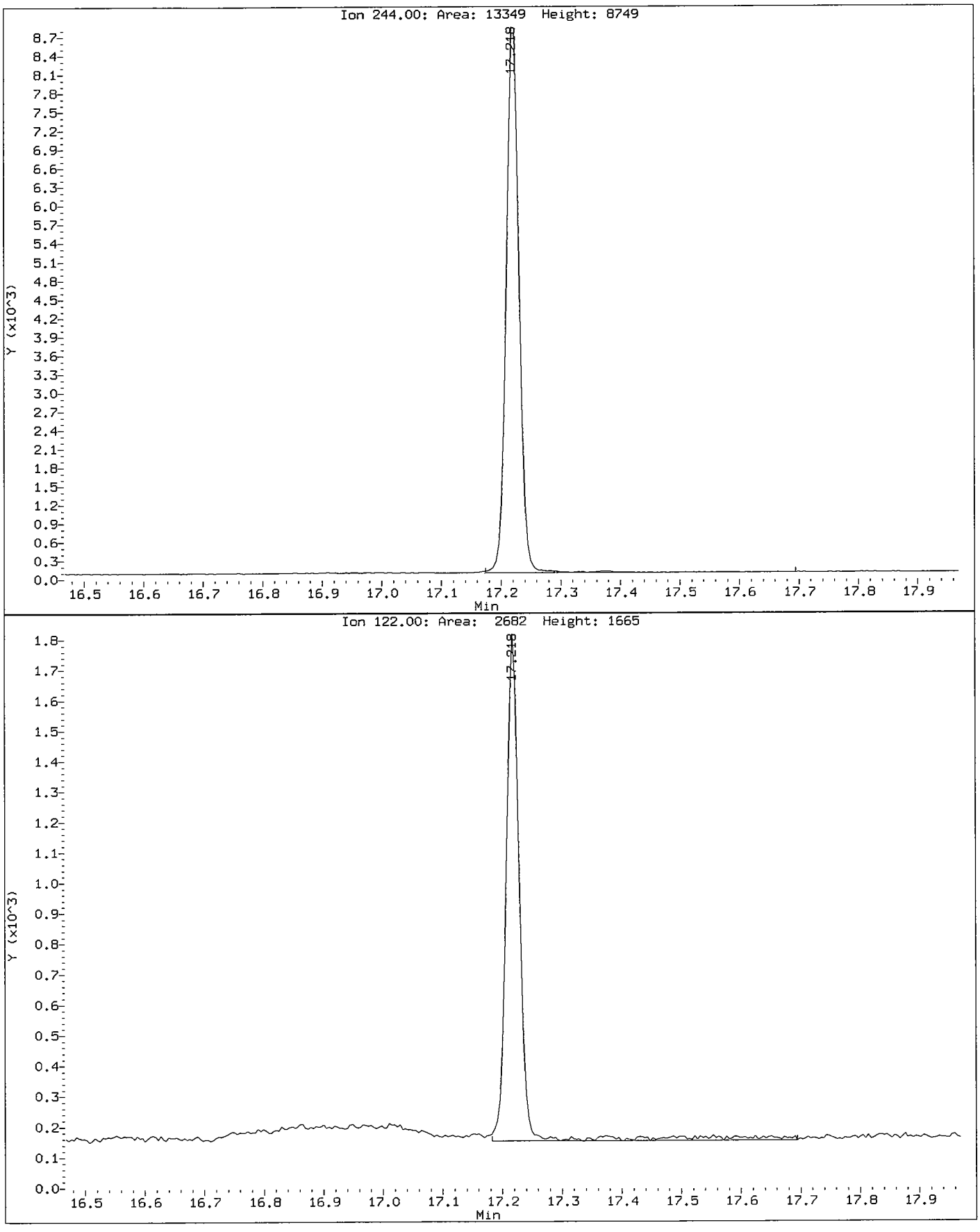
Terphenyl-d14 CAS Number 98904-43-9 Area = 13275 Manually integrated



File name: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Client ID: SS05-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 17:31
Retention Time: 17.22
Operator ID: MEW

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d
Injection Date: 24-JUN-2010 17:31
Instrument: 5972hp66.i
Client Sample ID: SS05-0-1RE

Compound: Terphenyl-d14
CAS Number: 98904-43-9



Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d

Date : 24-JUN-2010 17:31

Client ID: SS05-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-20RE1:MEW

Volume Injected (uL): 2.0

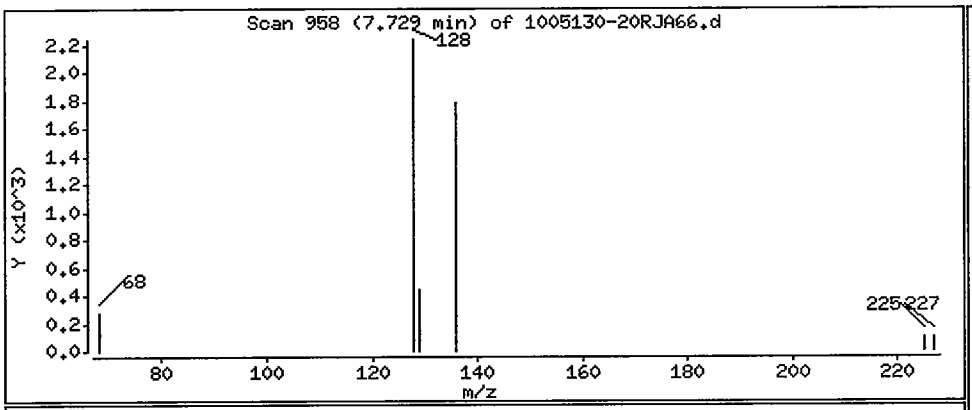
Operator: MEW

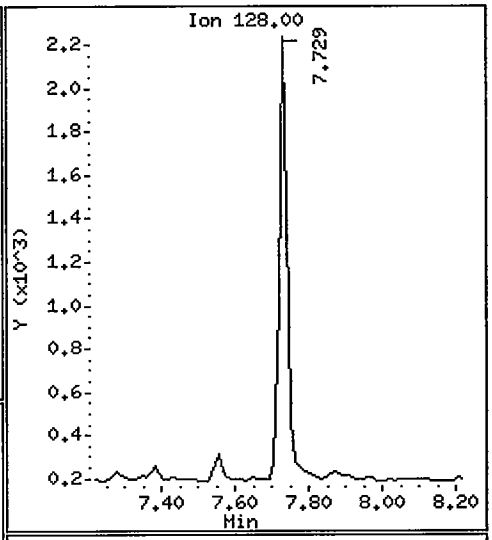
Column phase: Rtx-5MS

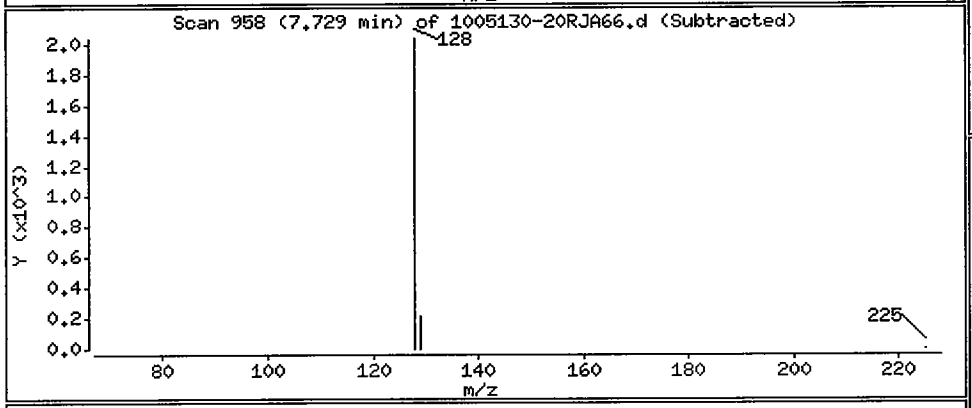
Column diameter: 0.32

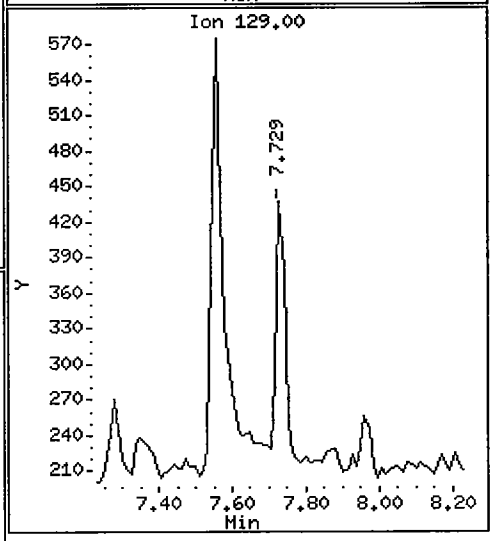
13 Naphthalene

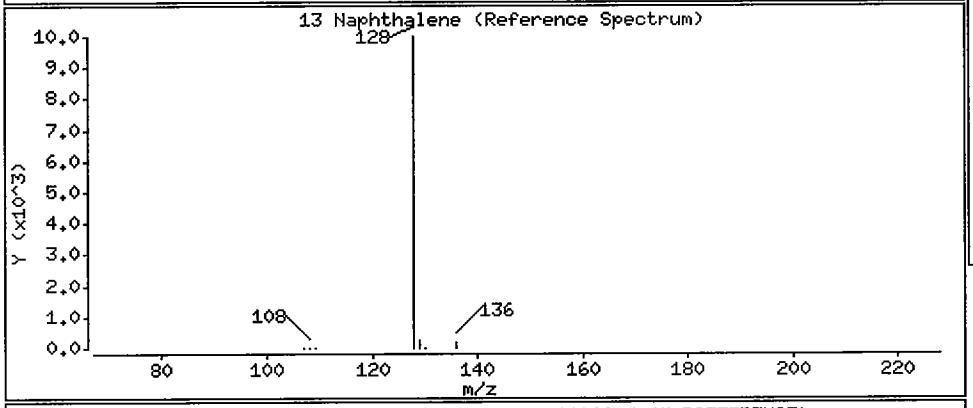
Concentration: 2.1 ug/Kg

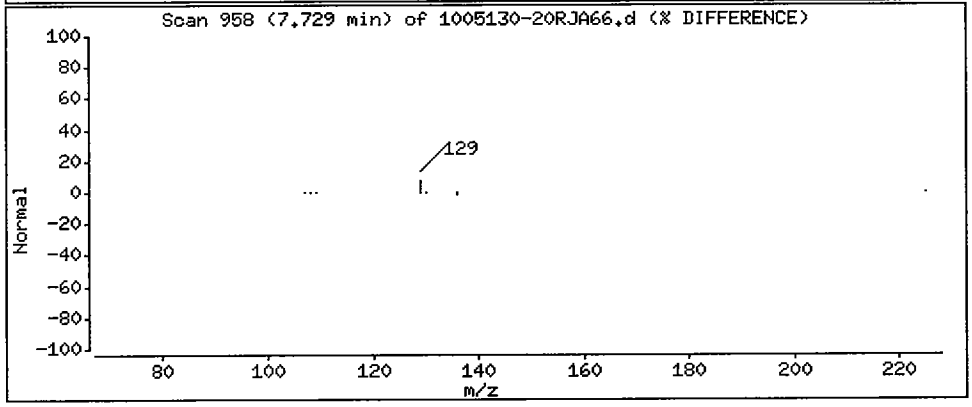












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d

Date : 24-JUN-2010 17:31

Client ID: SS05-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-20RE1:MEW

Volume Injected (uL): 2.0

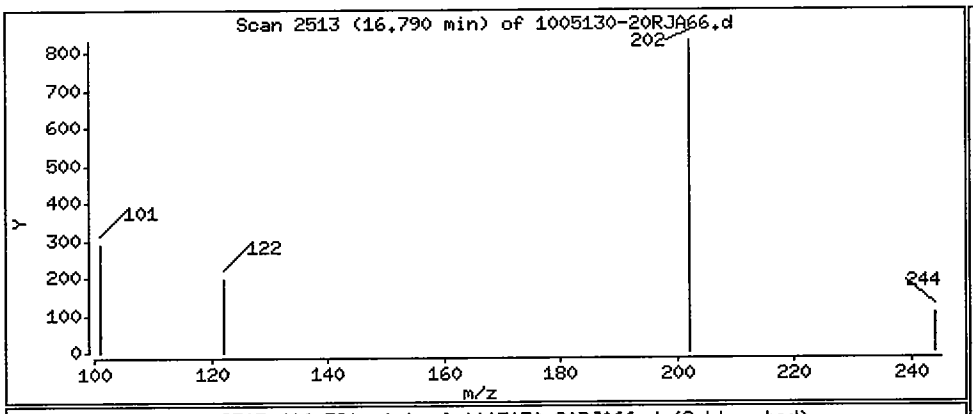
Operator: MEW

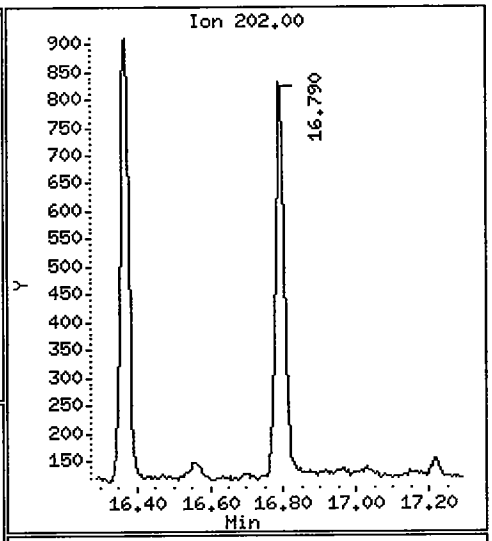
Column phase: Rtx-5MS

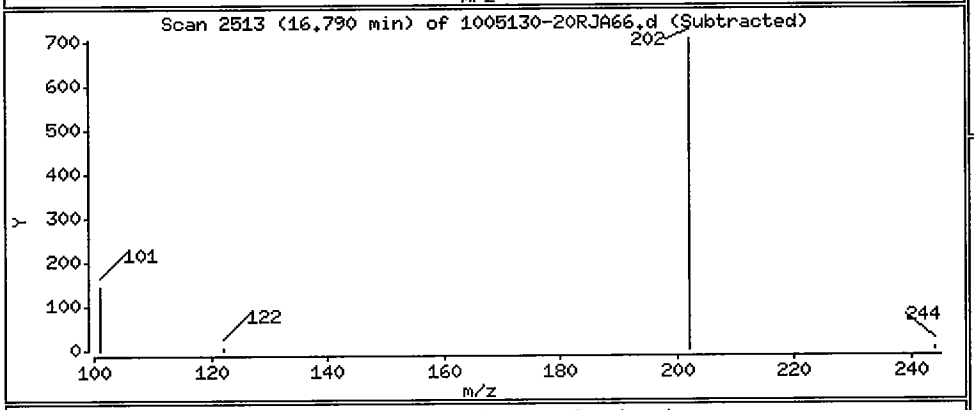
Column diameter: 0.32

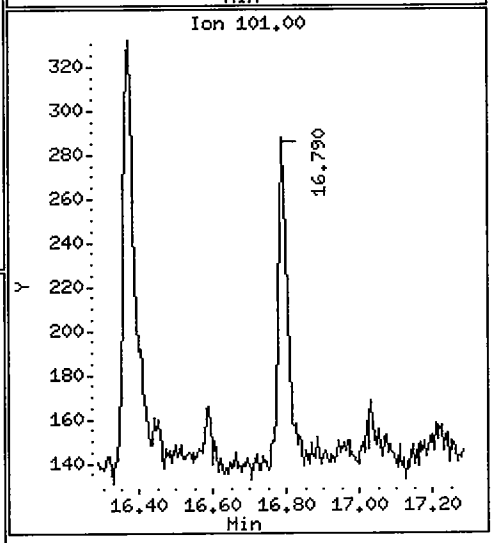
28 Pyrene

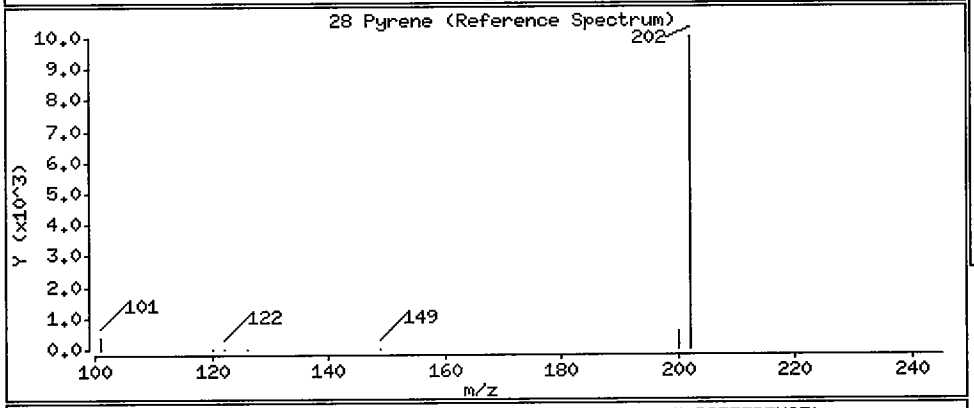
Concentration: 0.87 ug/Kg

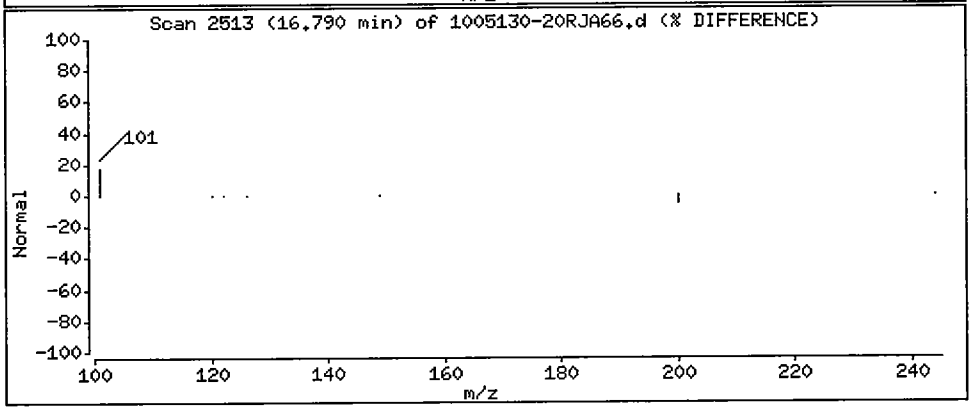












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d

Date : 24-JUN-2010 17:31

Client ID: SS05-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-20RE1:MEW

Volume Injected (uL): 2.0

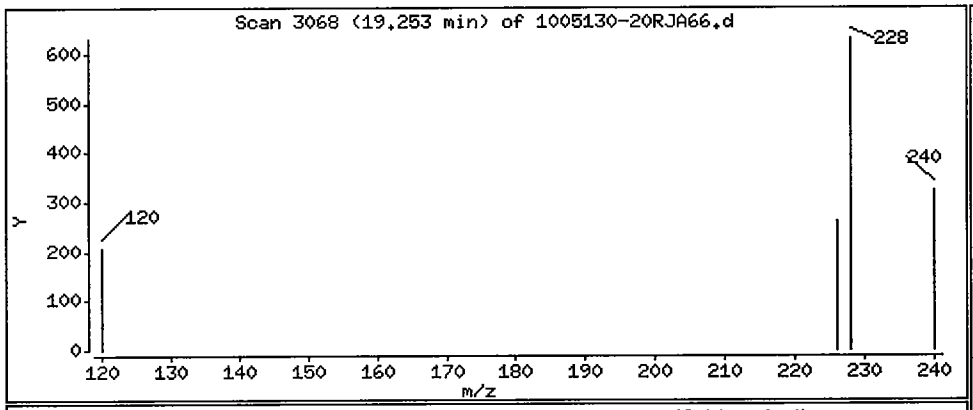
Operator: MEW

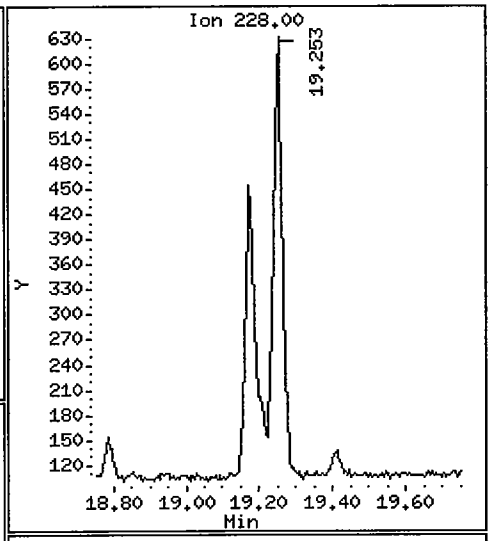
Column phase: Rtx-5MS

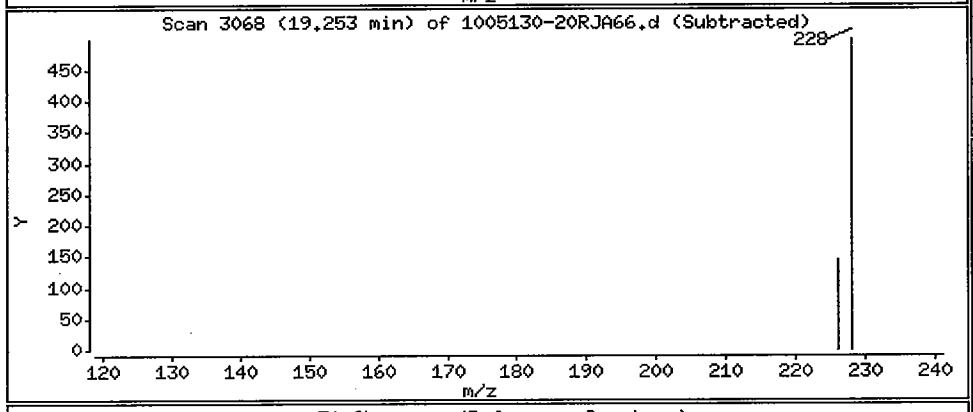
Column diameter: 0.32

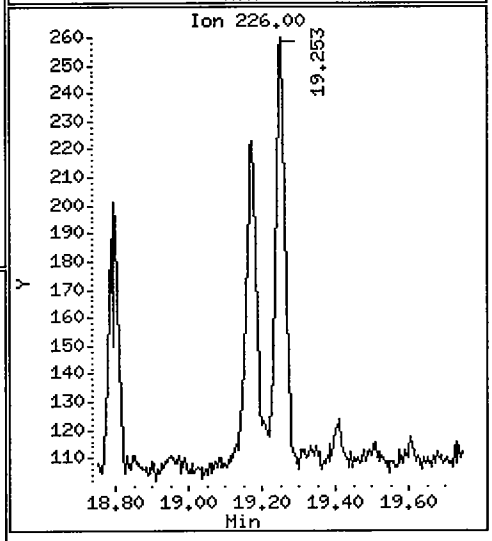
30 Chrysene

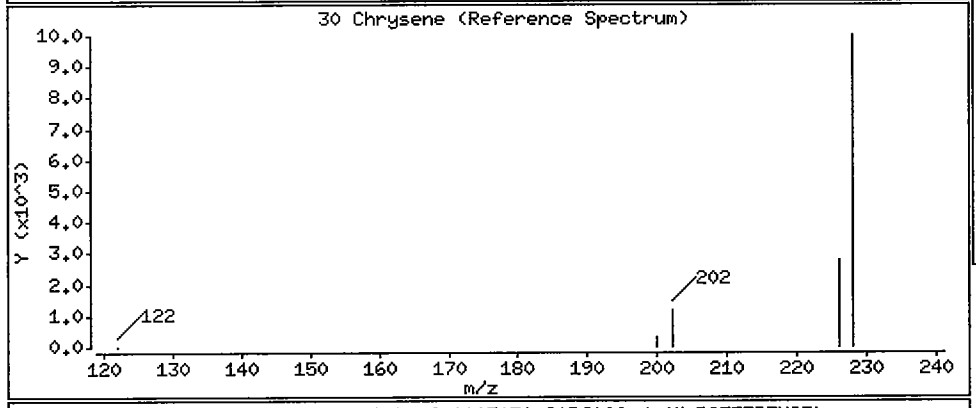
Concentration: 0.85 ug/Kg

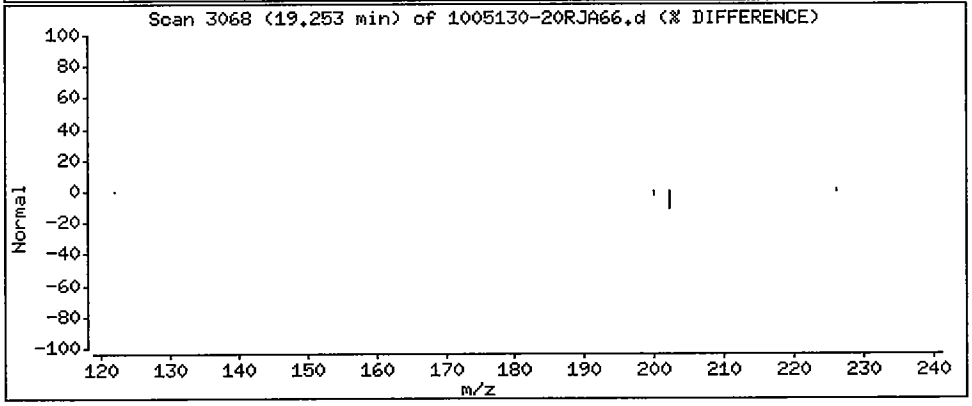












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d

Date : 24-JUN-2010 17:31

Client ID: SS05-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-20RE1:MEW

Volume Injected (uL): 2.0

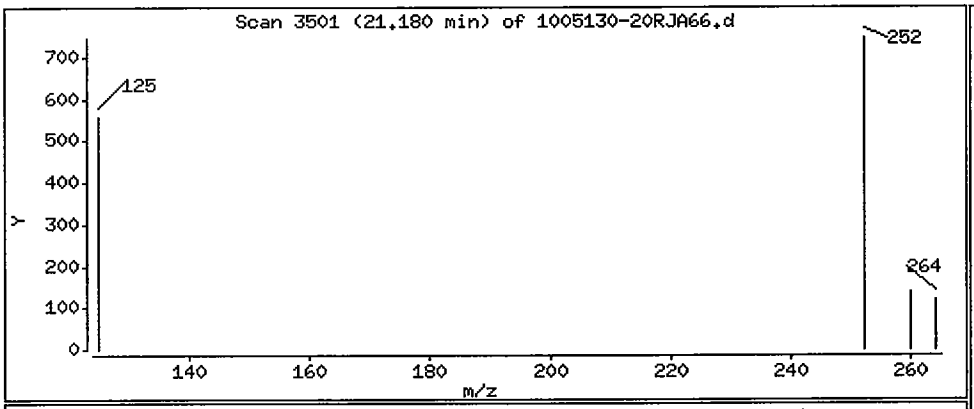
Operator: MEW

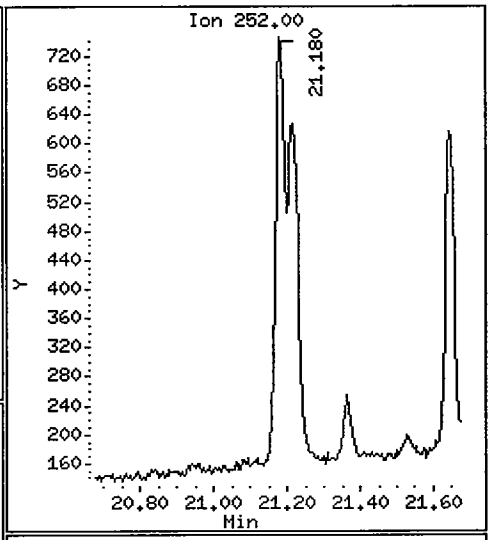
Column phase: Rtx-5MS

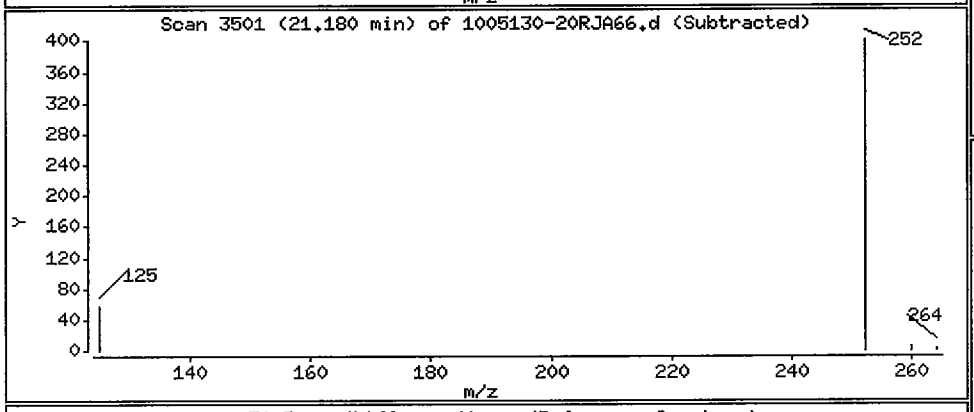
Column diameter: 0.32

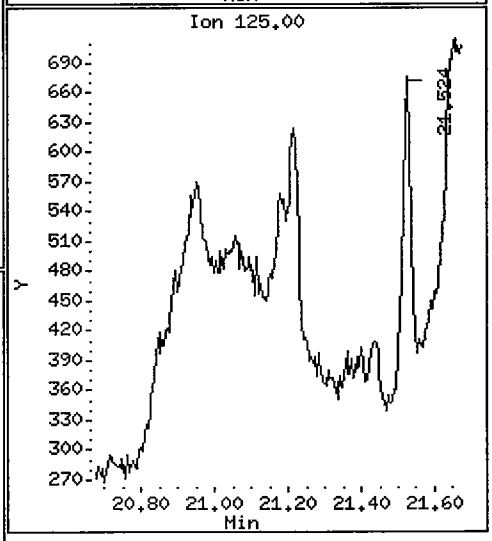
31 Benzo(b)fluoranthene

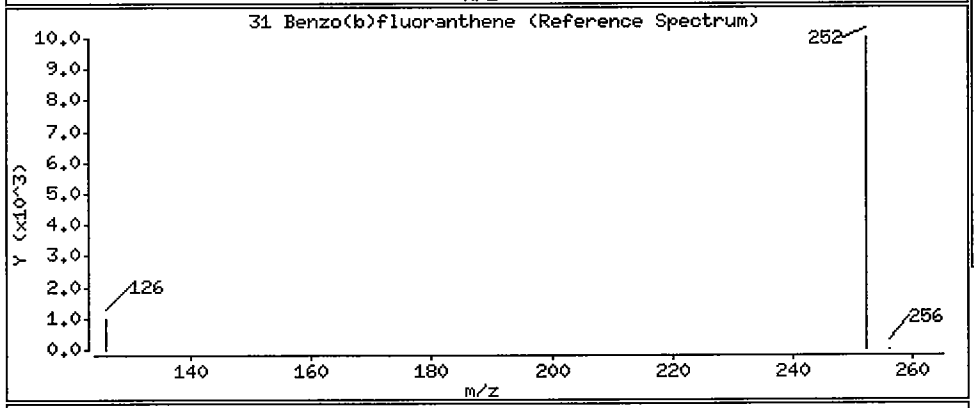
Concentration: 0.79 ug/Kg

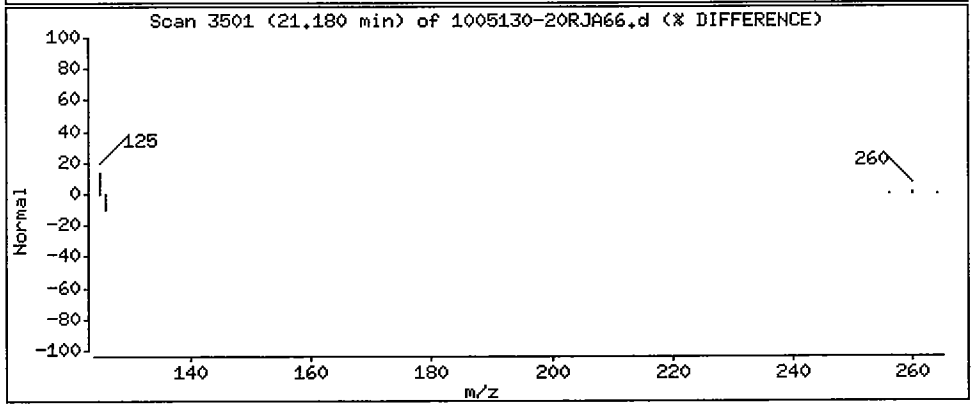












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d

Date : 24-JUN-2010 17:31

Client ID: SS05-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-20RE1:MEW

Volume Injected (uL): 2.0

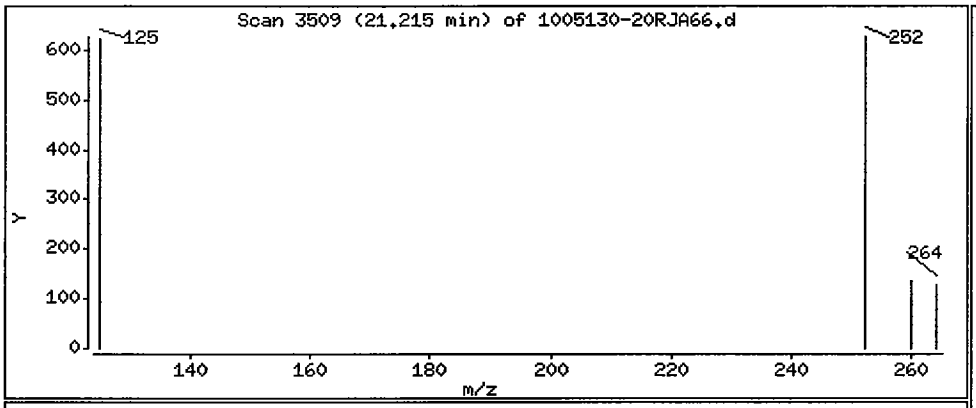
Operator: MEW

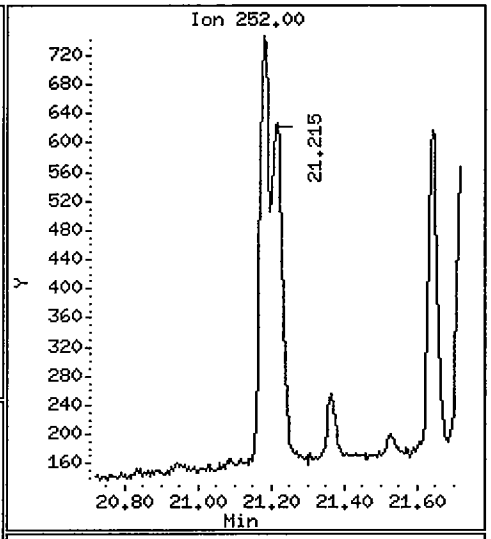
Column phase: Rtx-5MS

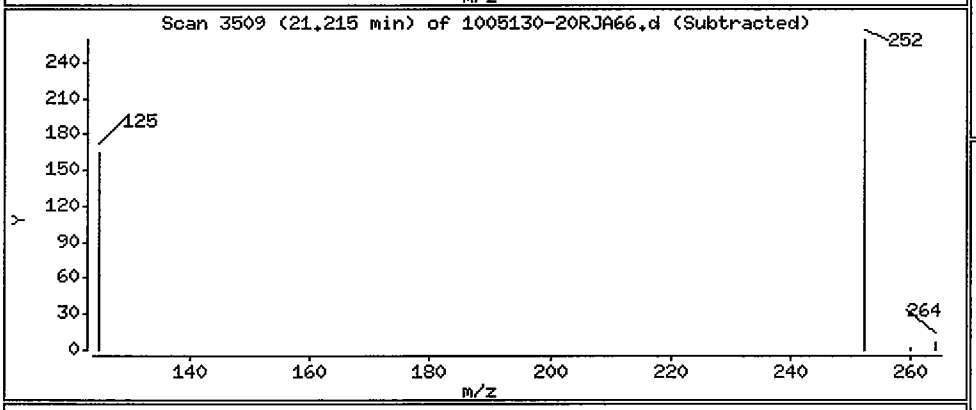
Column diameter: 0.32

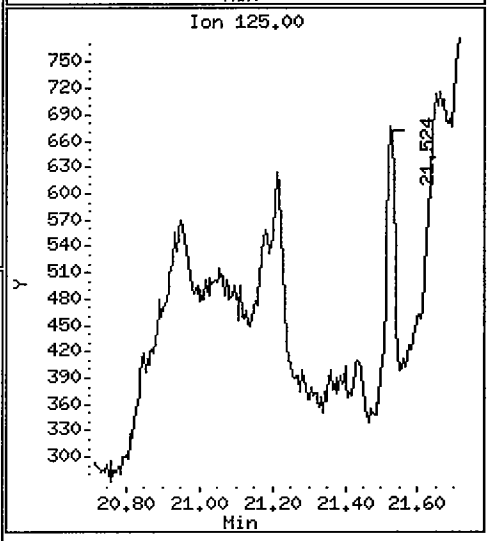
32 Benzo(k)fluoranthene

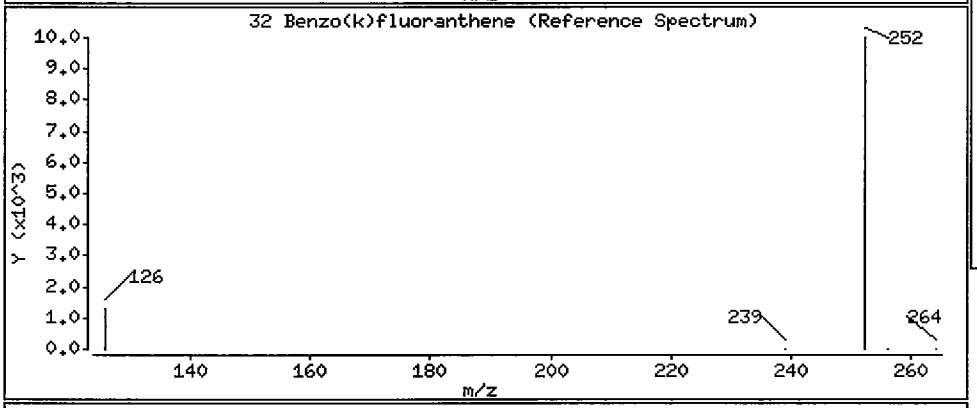
Concentration: 0.73 ug/Kg

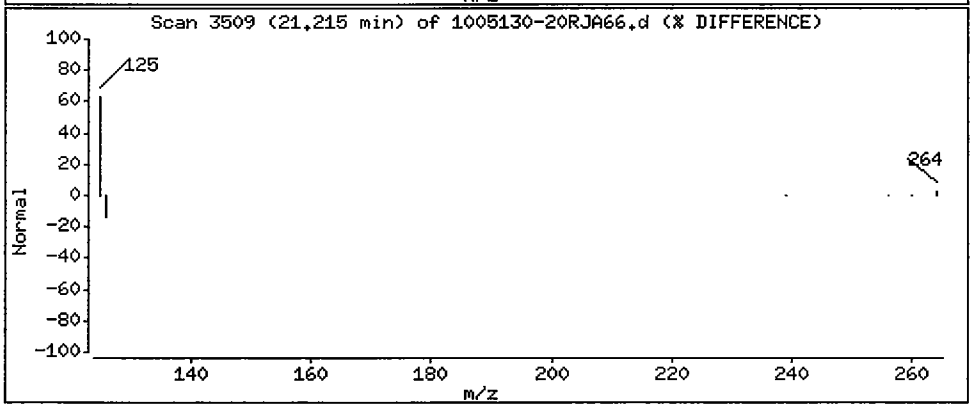












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-20RJA66.d

Date : 24-JUN-2010 17:31

Client ID: SS05-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-20RE1:MEW

Volume Injected (uL): 2.0

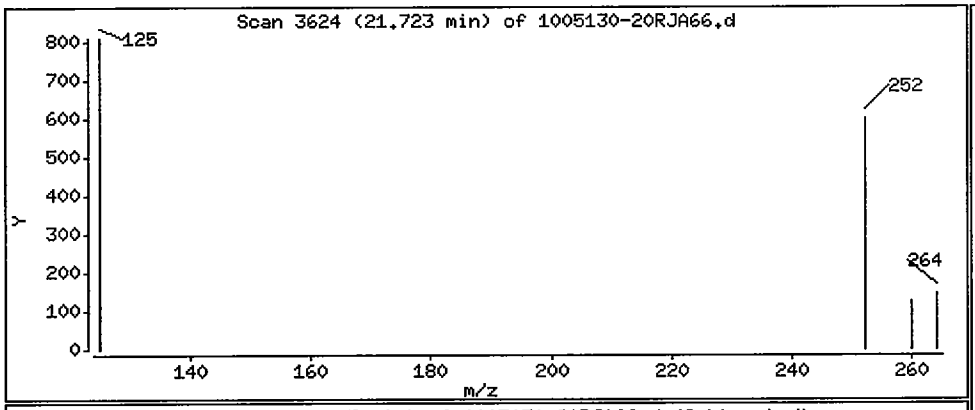
Operator: MEW

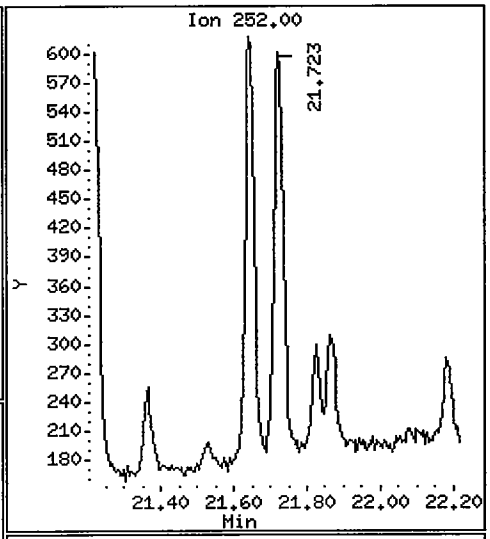
Column phase: Rtx-5MS

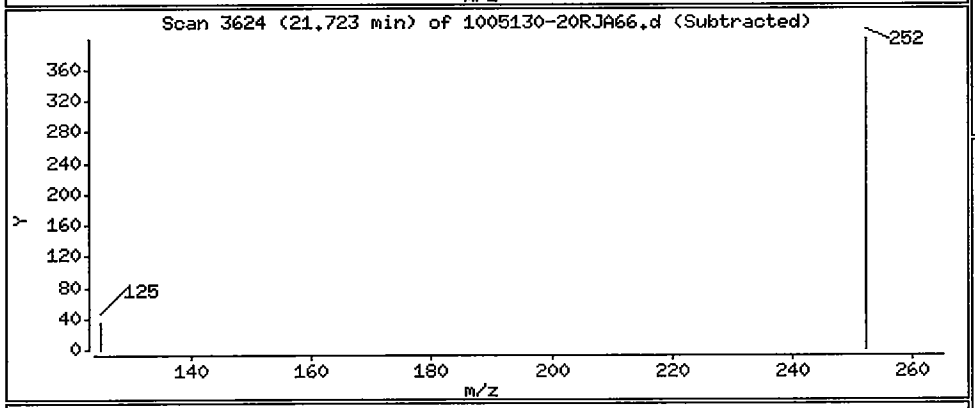
Column diameter: 0.32

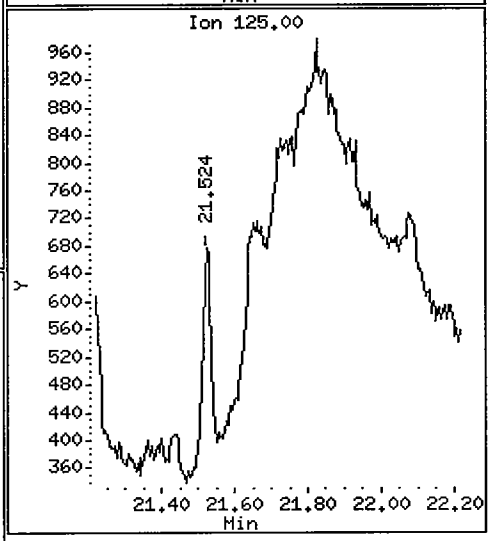
33 Benzo(a)pyrene

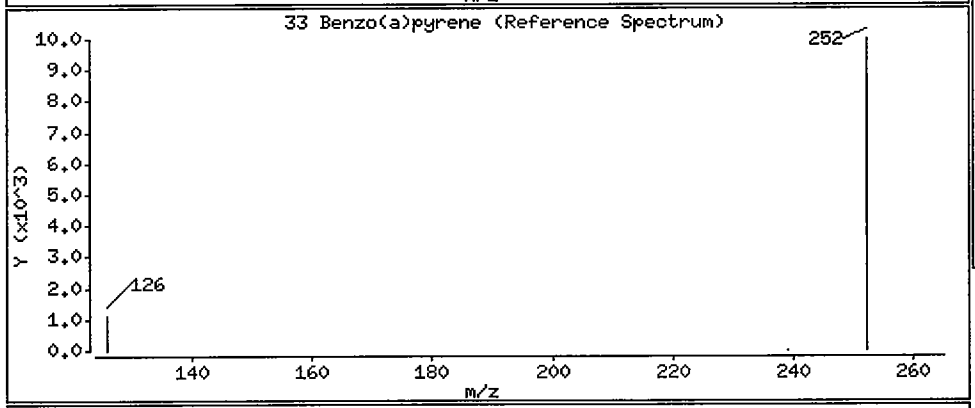
Concentration: 0.60 ug/Kg

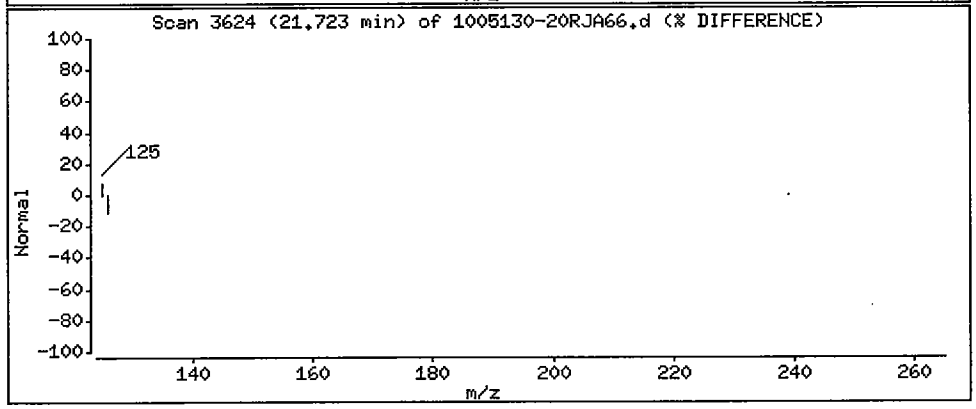












1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS08-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-18
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-18C66
Analyst: 2743

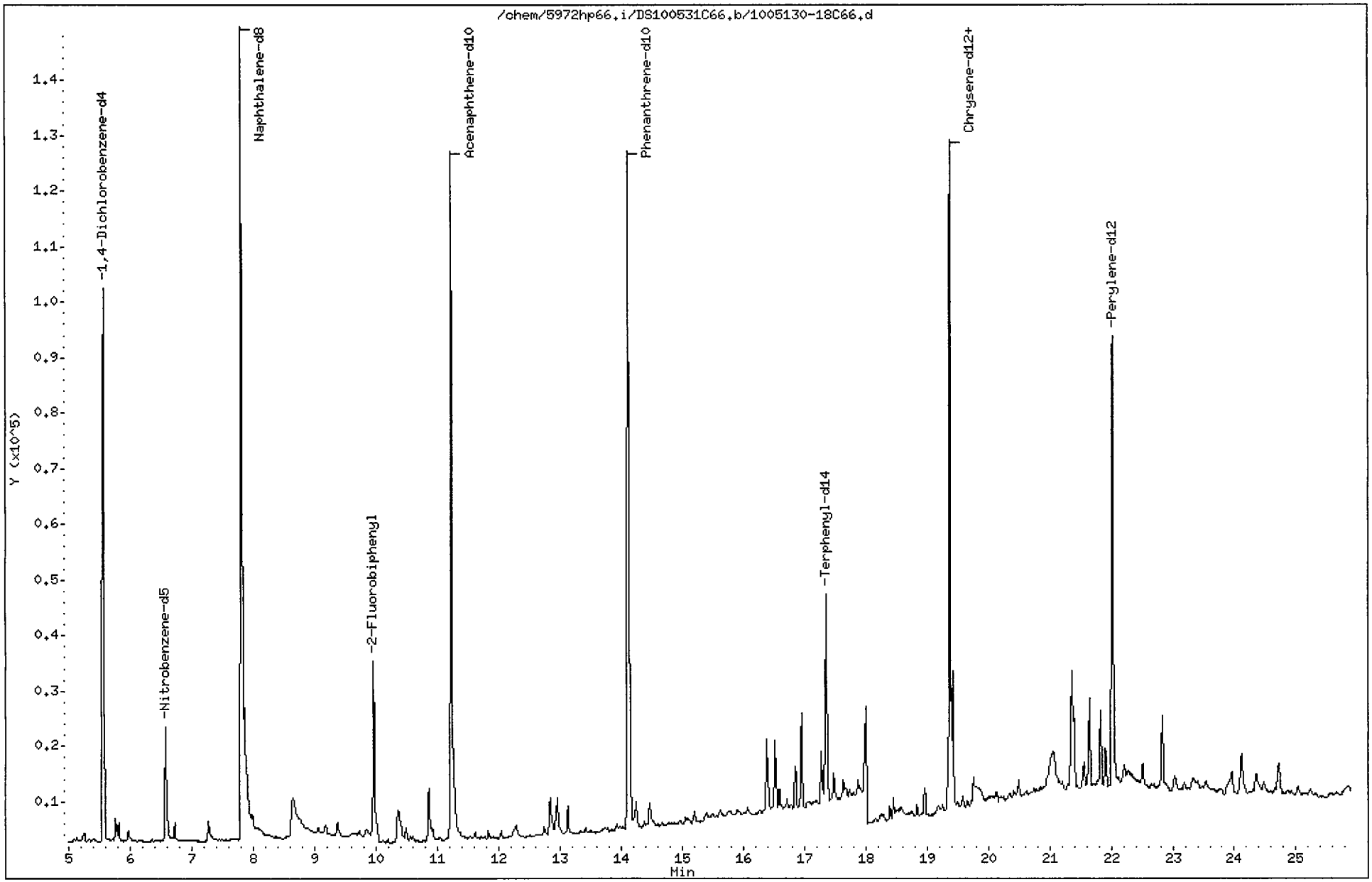
% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	ND	U
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	ND	U
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	ND	U
120-12-7	Anthracene	0.48	9.2	1.2	J
206-44-0	Fluoranthene	1.5	9.2	3.0	J
129-00-0	Pyrene	0.63	9.2	3.9	J
56-55-3	Benzo(a)anthracene	0.63	9.2	2.1	J
218-01-9	Chrysene	0.70	9.2	5.7	J
205-99-2	Benzo(b)fluoranthene	0.63	9.2	7.4	J
207-08-9	Benzo(k)fluoranthene	0.48	9.2	4.9	J
50-32-8	Benzo(a)pyrene	0.43	9.2	2.0	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	3.2	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	2.6	J

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d
Date : 01-JUN-2010 08:55
Client ID: SS08-0-1
Instrument: 5972hp66.i
Sample Info: 1005130-18:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d
Report Date: 02-Jun-2010 12:55

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d
Lab Smp Id: 1005130-18 Client Smp ID: SS08-0-1
Inj Date : 01-JUN-2010 08:55
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-18:2743
Misc Info : SS08-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	10.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.570	5.535	(1.000)	63950	2.00000	
*	2 Naphthalene-d8	136	7.812	7.790	(1.000)	240960	2.00000	
*	3 Acenaphthene-d10	164	11.230	11.218	(1.000)	108953	2.00000	
*	4 Phenanthrene-d10	188	14.127	14.101	(1.000)	215441	2.00000	
*	5 Chrysene-d12	240	19.379	19.353	(1.000)	158152	2.00000	
*	6 Perylene-d12	264	22.026	21.983	(1.000)	121892	2.00000	
$	9 Nitrobenzene-d5	82	6.574	6.552	(0.841)	27807	0.51861	9.6
$	10 2-Fluorobiphenyl	172	9.963	9.954	(0.887)	51595	0.45380	8.4
$	12 Terphenyl-d14	244	17.360	17.347	(0.896)	48496	0.84395	16
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

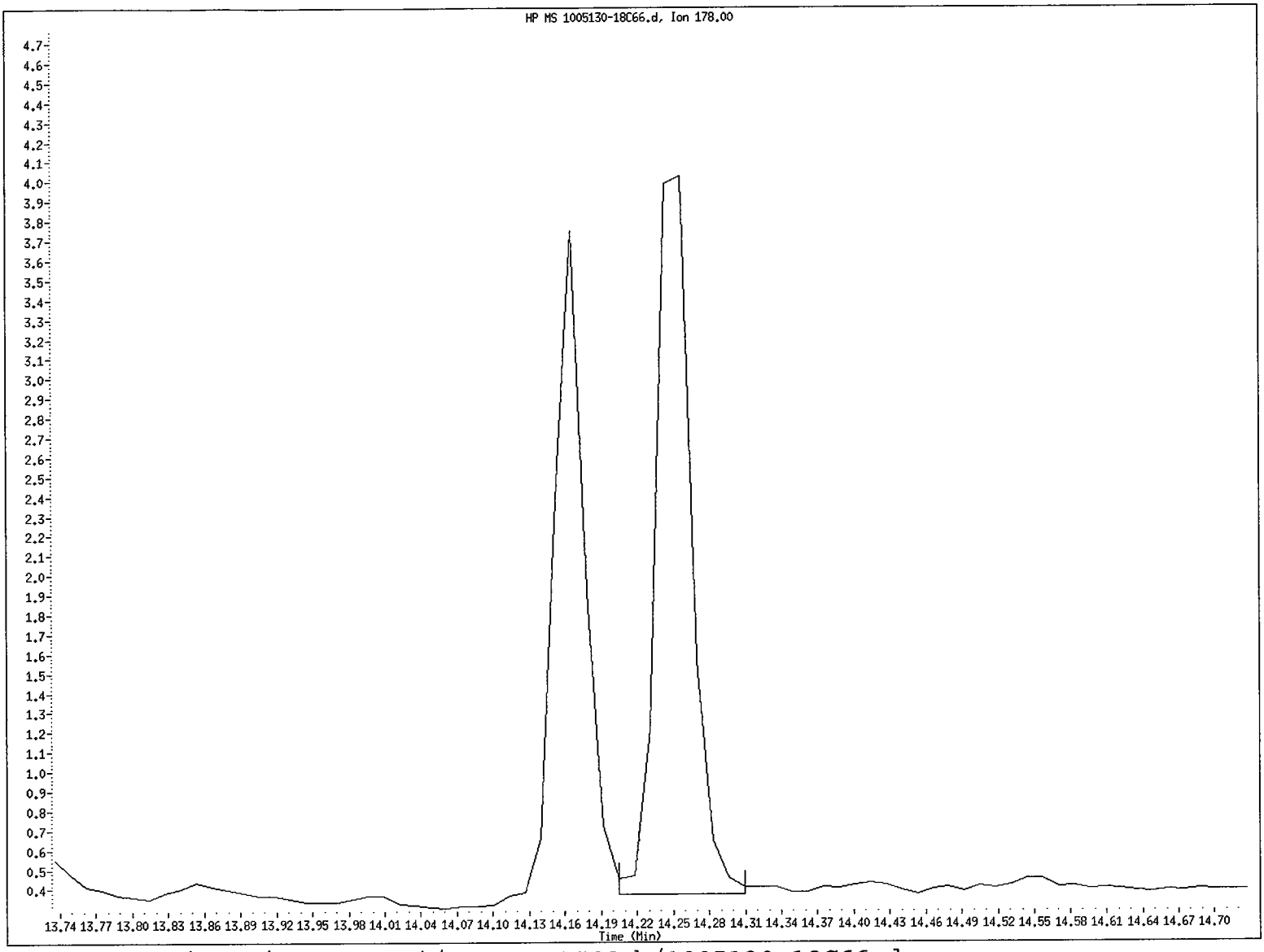
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d
Report Date: 02-Jun-2010 12:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	14.257	14.231	(1.009)	7720	0.06389	1.2(aM)
27 Fluoranthene	202	16.526	16.500	(0.853)	16723	0.15947	3.0(a)
28 Pyrene	202	16.956	16.930	(0.875)	24140	0.21137	3.9(a)
29 Benzo(a)anthracene	228	19.344	19.318	(0.998)	9862	0.11471	2.1(a)
30 Chrysene	228	19.423	19.397	(1.002)	28517	0.30624	5.7(a)
31 Benzo(b)fluoranthene	252	21.362	21.330	(0.970)	32149	0.39993	7.4(a)
32 Benzo(k)fluoranthene	252	21.395	21.373	(0.971)	23078	0.26678	4.9(aH)
33 Benzo(a)pyrene	252	21.917	21.885	(0.995)	7956	0.10983	2.0(a)
34 Indeno(1,2,3-cd)pyrene	276	24.116	24.062	(1.095)	10948	0.17131	3.2(a)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.714	24.661	(1.122)	9805	0.13842	2.6(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

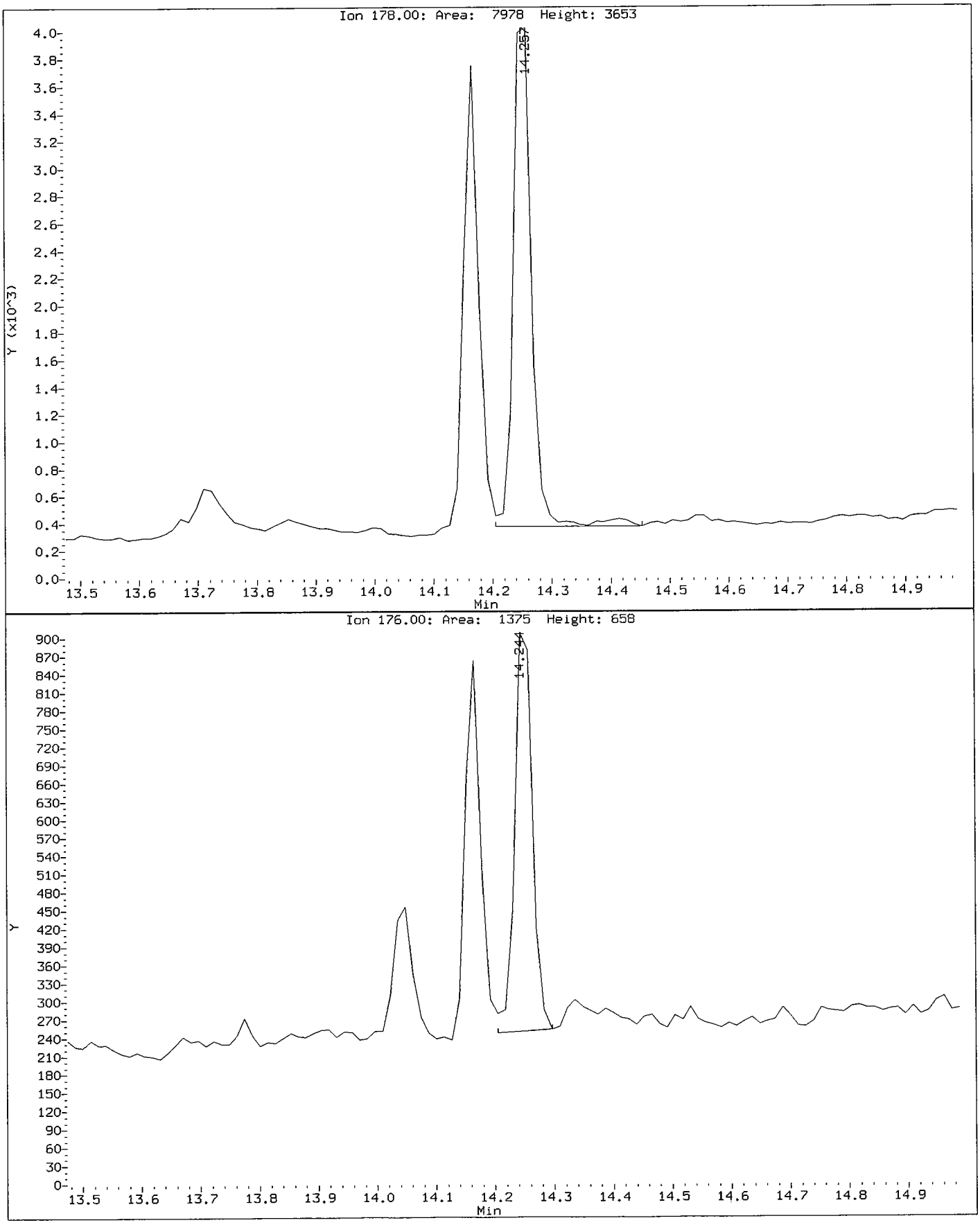
Anthracene CAS Number 120-12-7 Area = 7720 Manually integrated



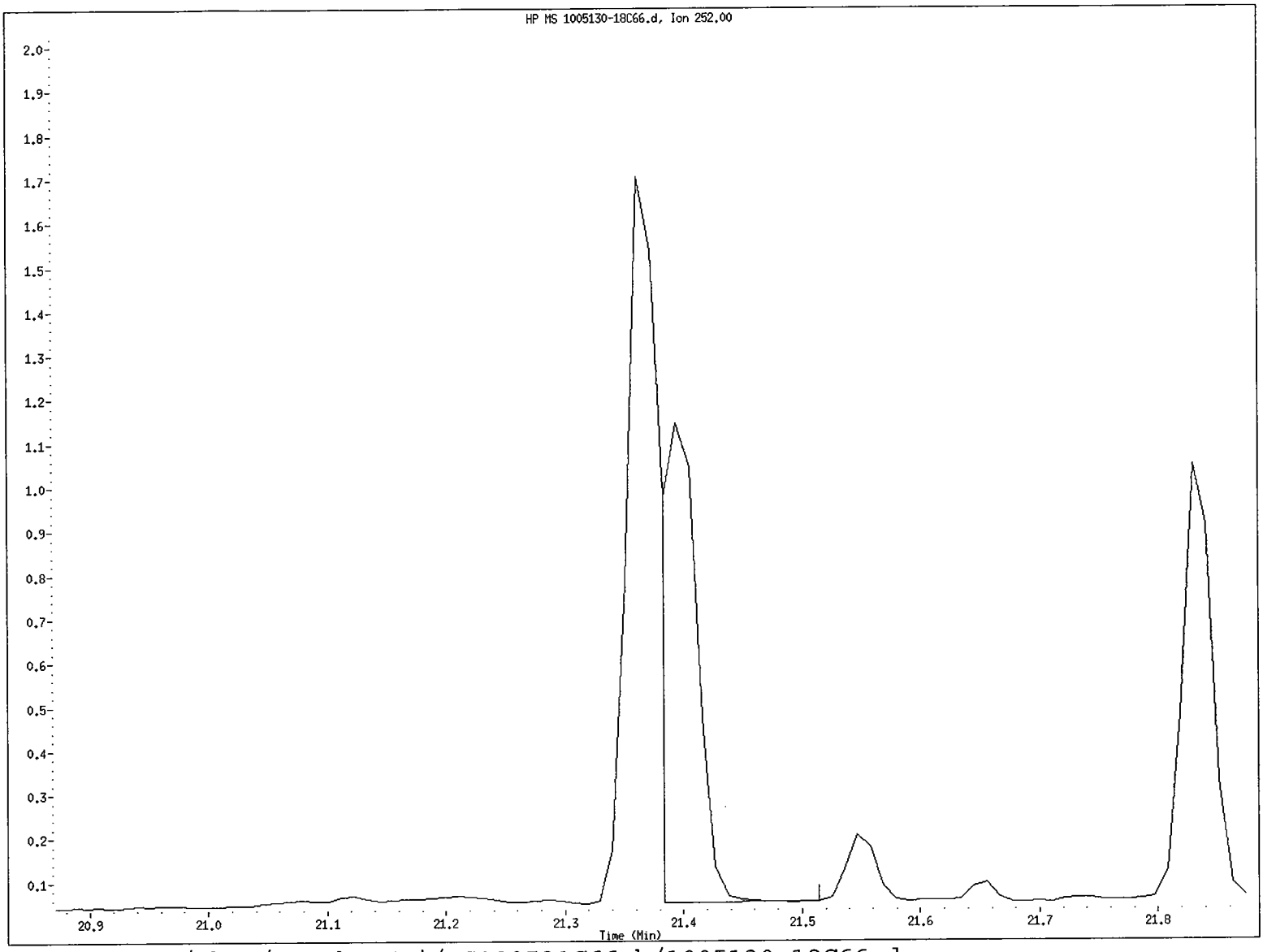
File name: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d
Client ID: SS08-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 08:55
Retention Time: 14.26
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d
Injection Date: 01-JUN-2010 08:55
Instrument: 5972hp66.i
Client Sample ID: SS08-0-1

Compound: Anthracene
CAS Number: 120-12-7

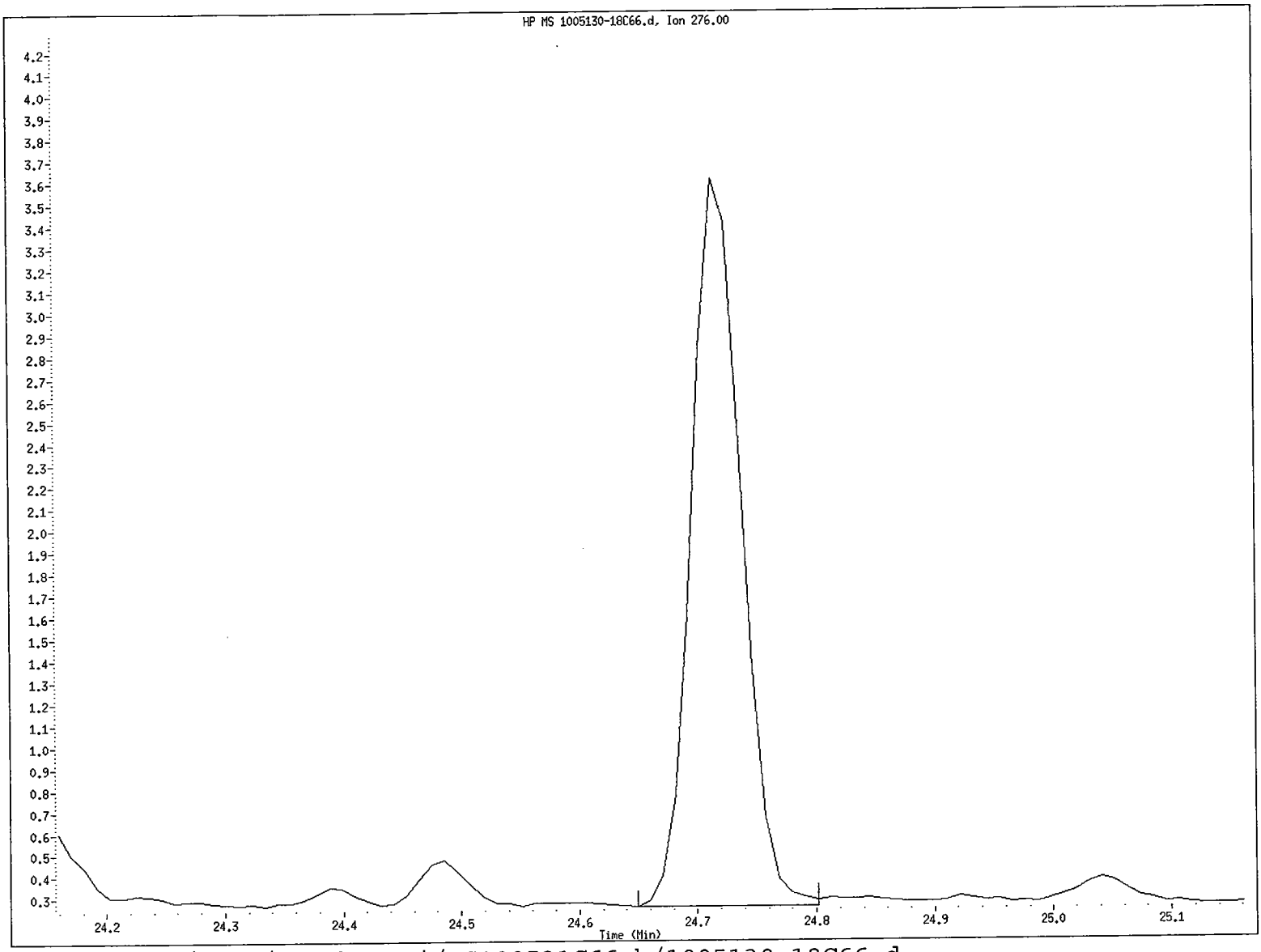


Benzo(k)fluoranthene CAS Number 207-08-9 Area = 23078 User selected hit



File name: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d
Client ID: SS08-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 08:55
Retention Time: 21.39
Operator ID: 2743

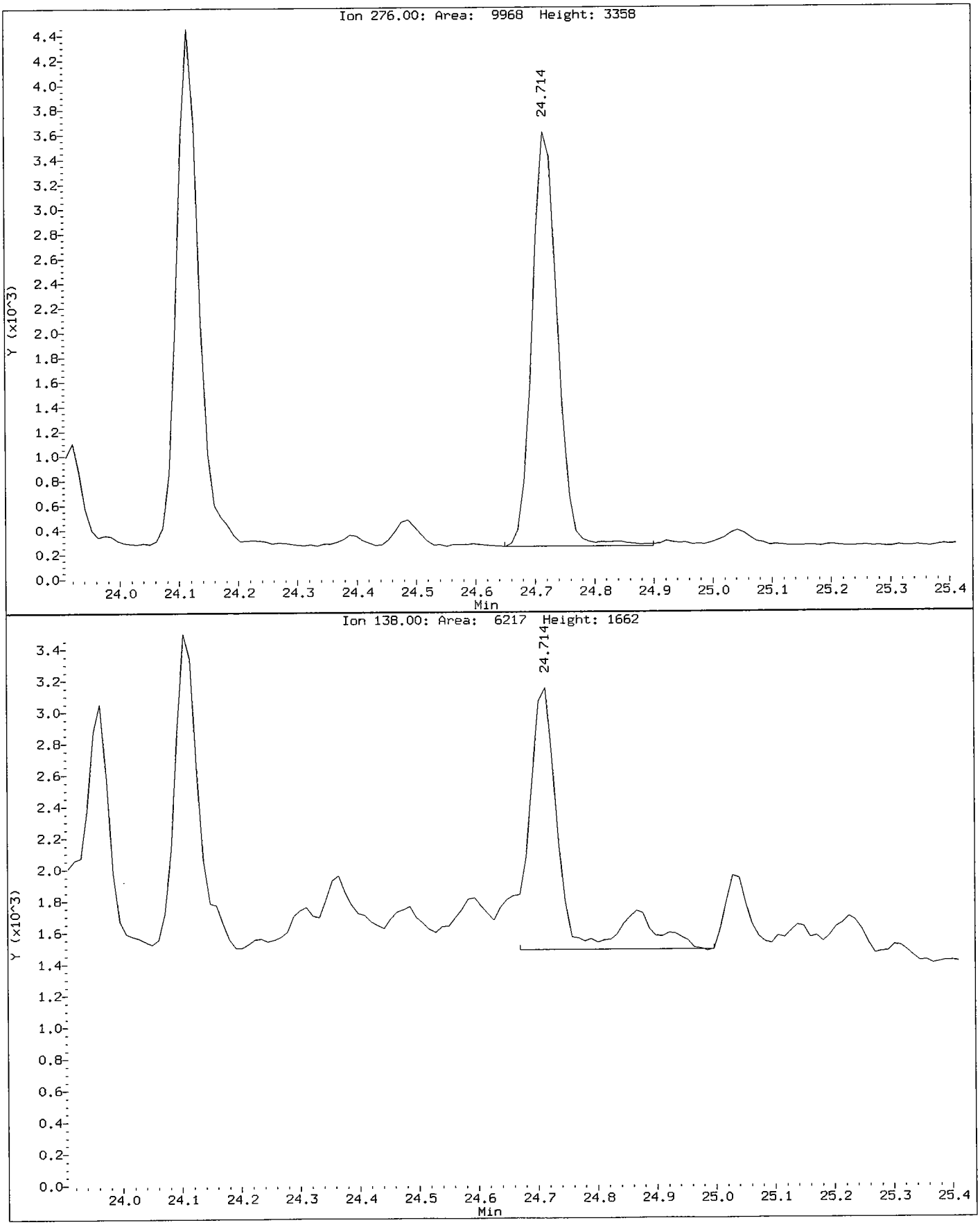
Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 9805 Manually integrated



File name: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d
Client ID: SS08-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 08:55
Retention Time: 24.71
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d
Injection Date: 01-JUN-2010 08:55
Instrument: 5972hp66.i
Client Sample ID: SS08-0-1

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

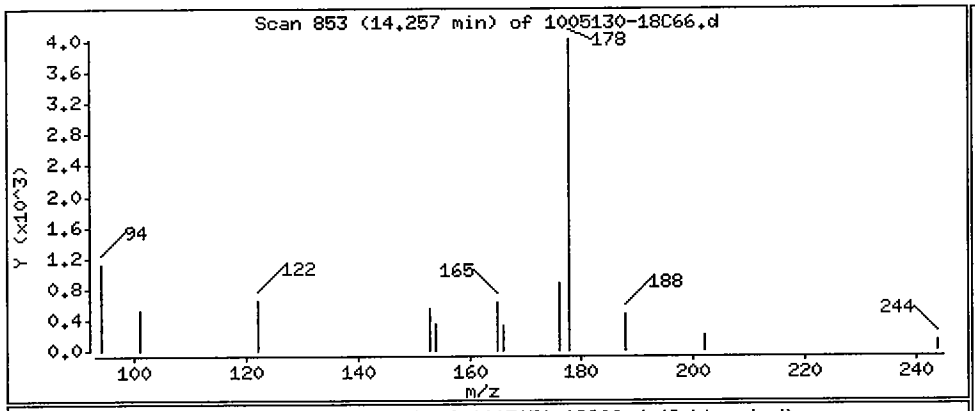
Client ID: SS08-0-1 Instrument: 5972hp66.i

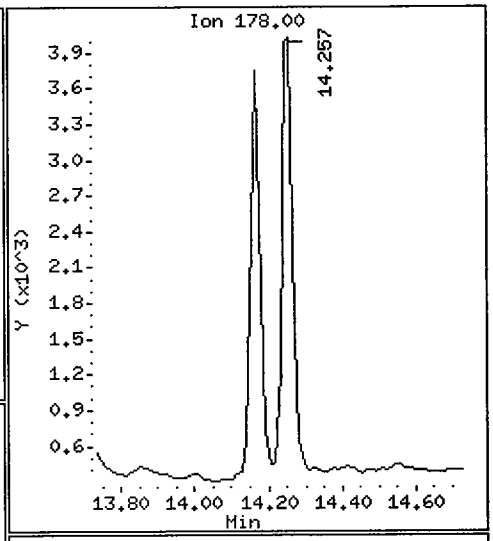
Sample Info: 1005130-18:2743

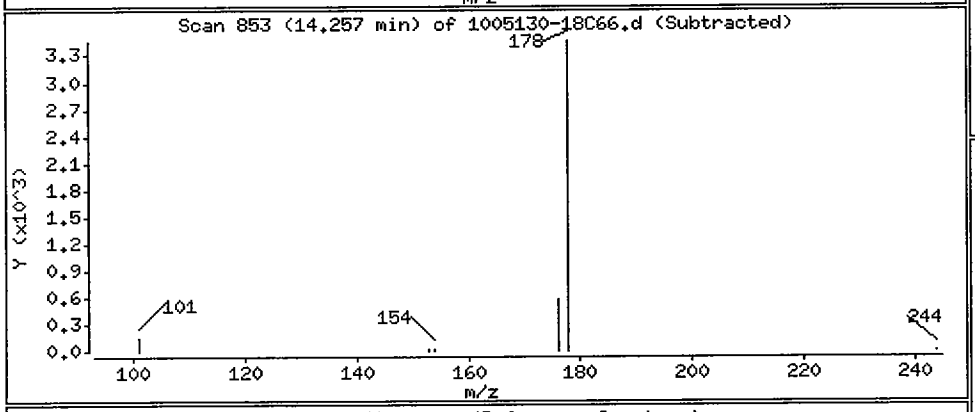
Volume Injected (uL): 2.0 Operator: 2743

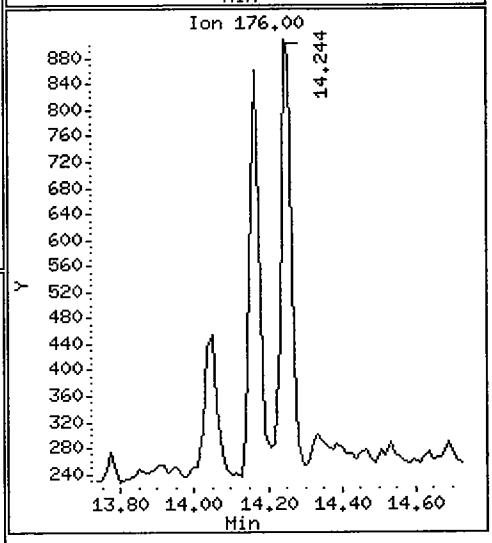
Column phase: Rtx-5MS Column diameter: 0.32

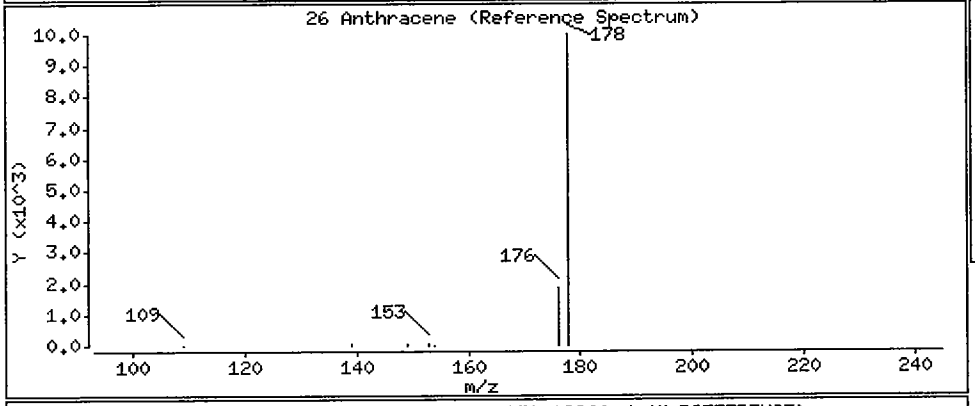
26 Anthracene Concentration: 1.2 ug/Kg

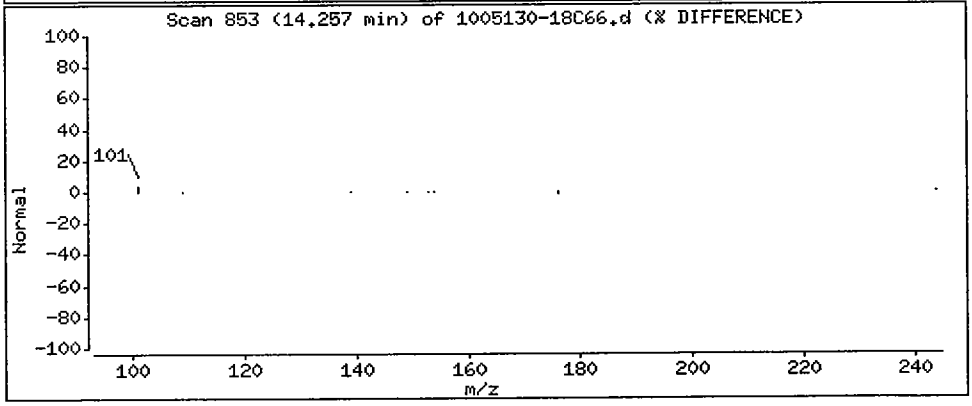












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

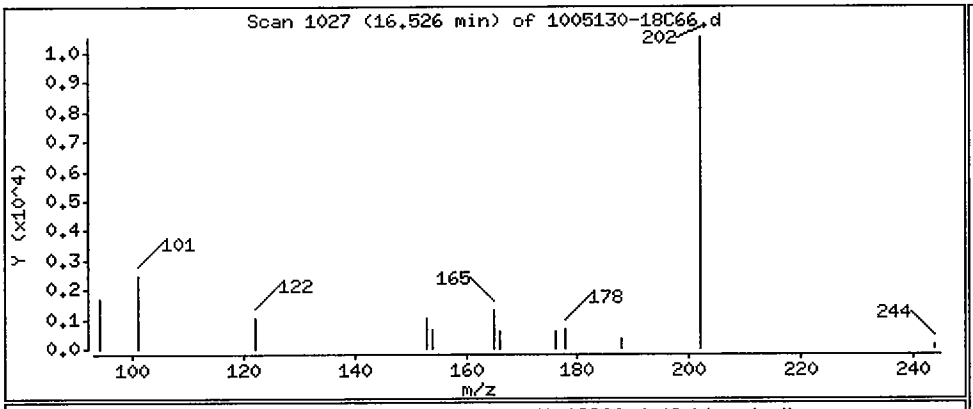
Client ID: SS08-0-1 Instrument: 5972hp66.i

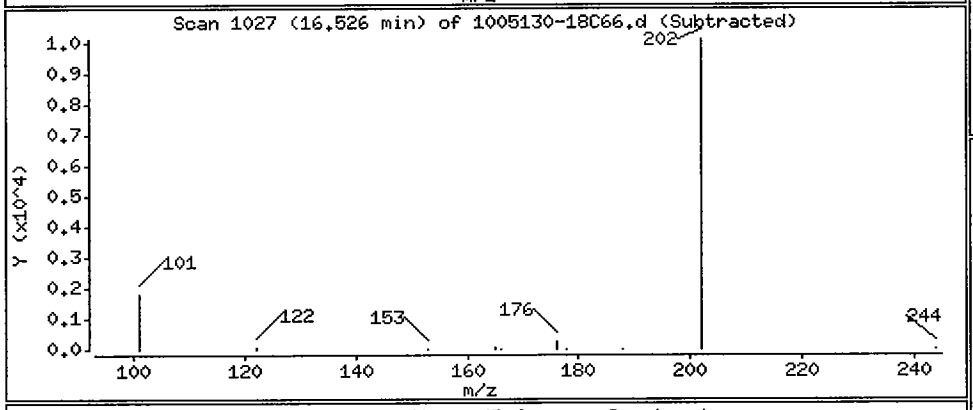
Sample Info: 1005130-18:2743

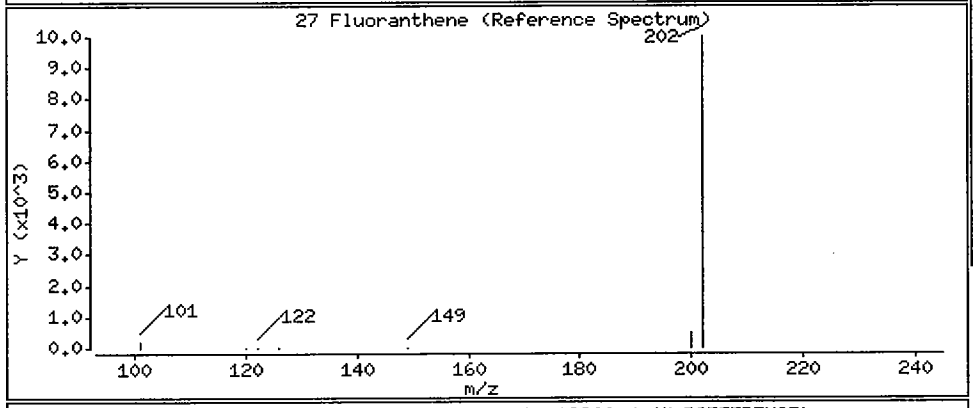
Volume Injected (uL): 2.0 Operator: 2743

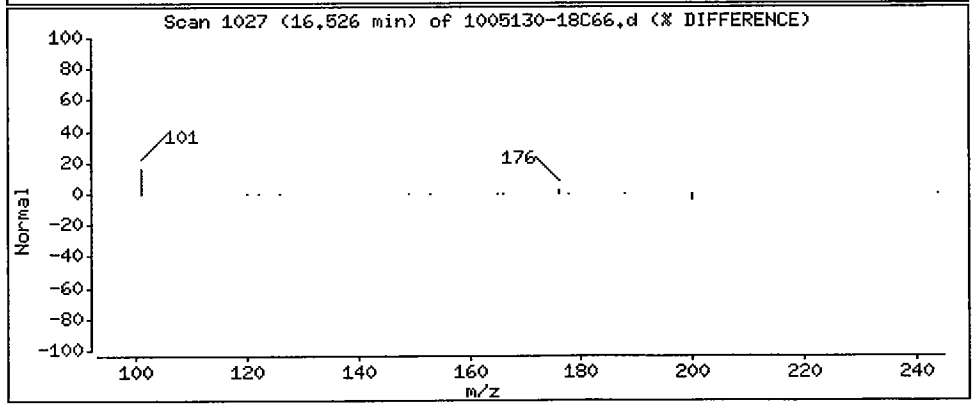
Column phase: Rtx-5MS Column diameter: 0.32

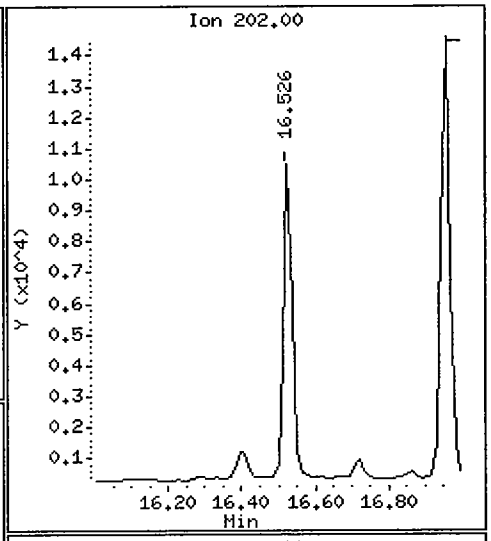
27 Fluoranthene Concentration: 3.0 ug/Kg

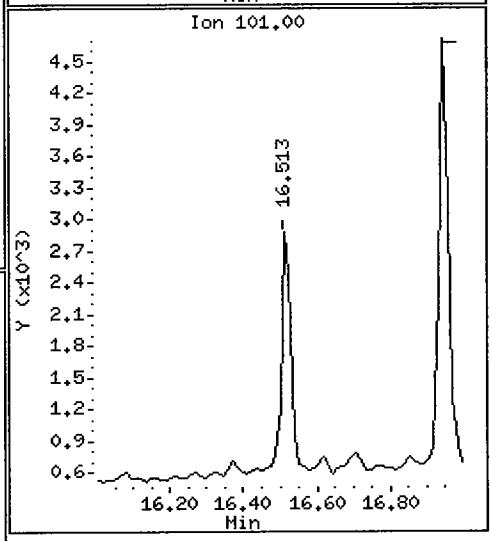












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

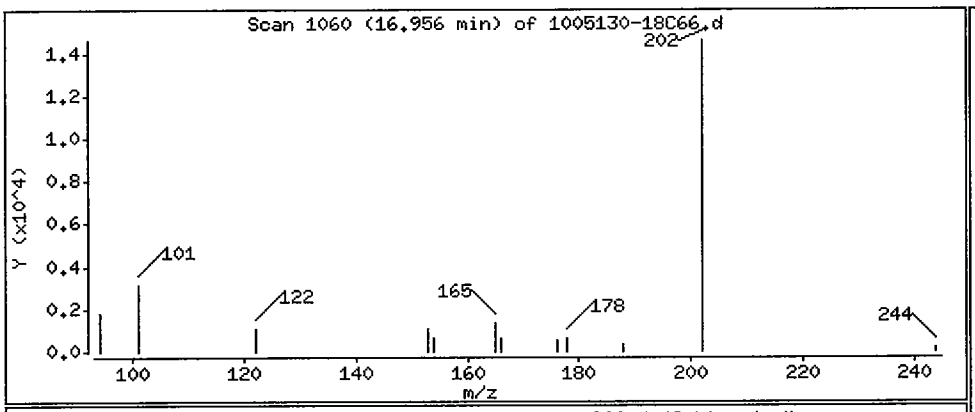
Client ID: SS08-0-1 Instrument: 5972hp66.i

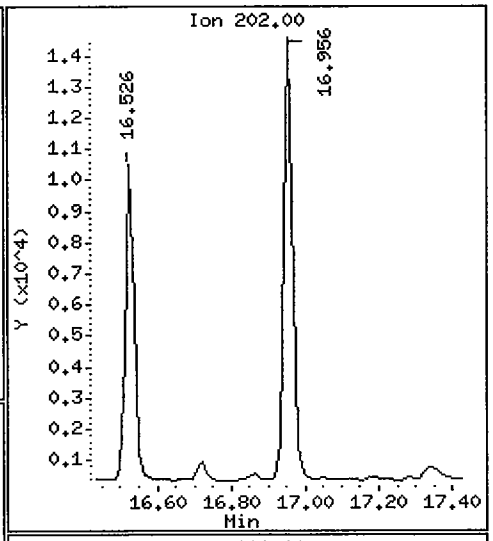
Sample Info: 1005130-18:2743

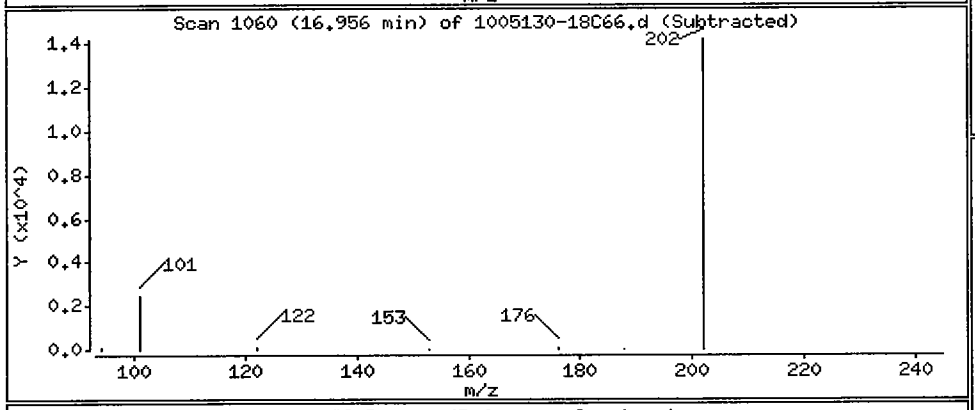
Volume Injected (uL): 2.0 Operator: 2743

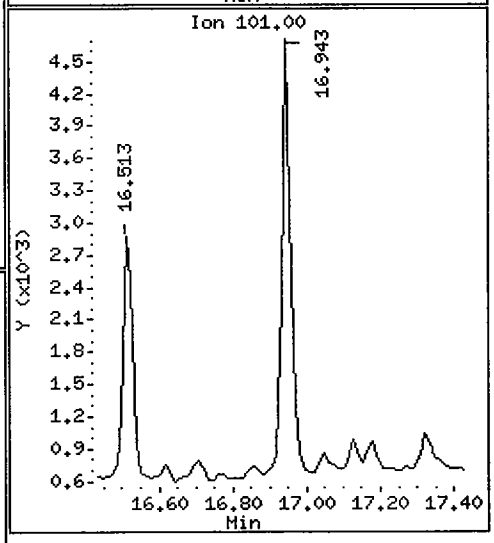
Column phase: Rtx-5MS Column diameter: 0.32

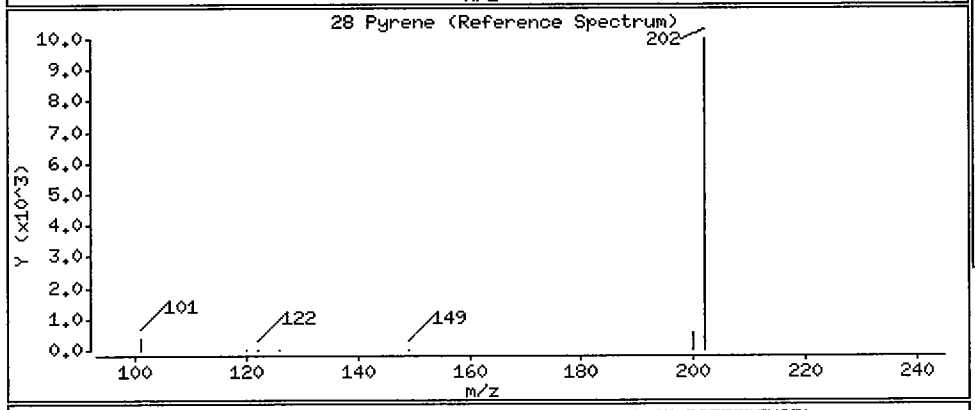
28 Pyrene Concentration: 3.9 ug/Kg

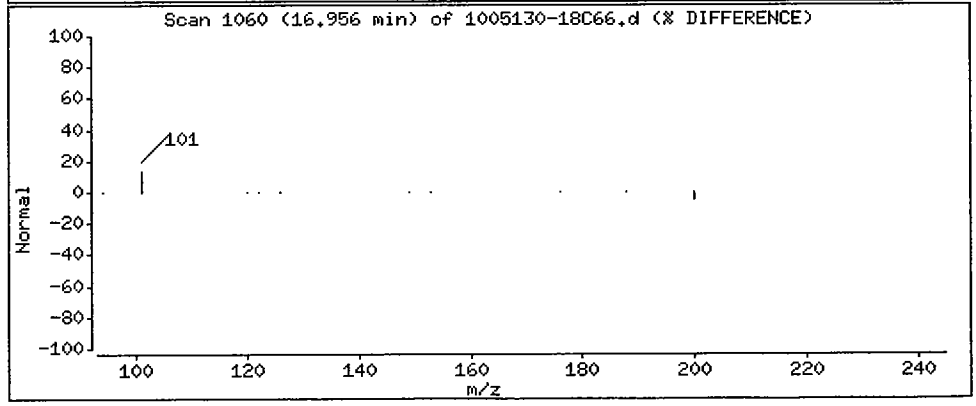












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

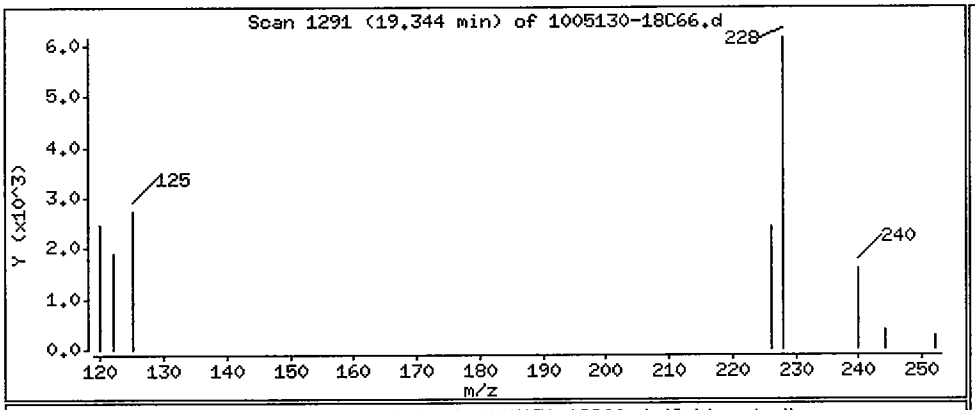
Client ID: SS08-0-1 Instrument: 5972hp66.i

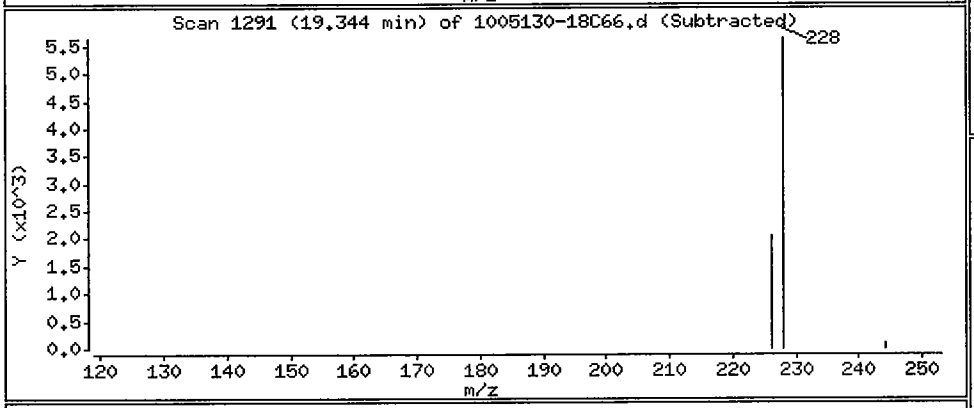
Sample Info: 1005130-18:2743

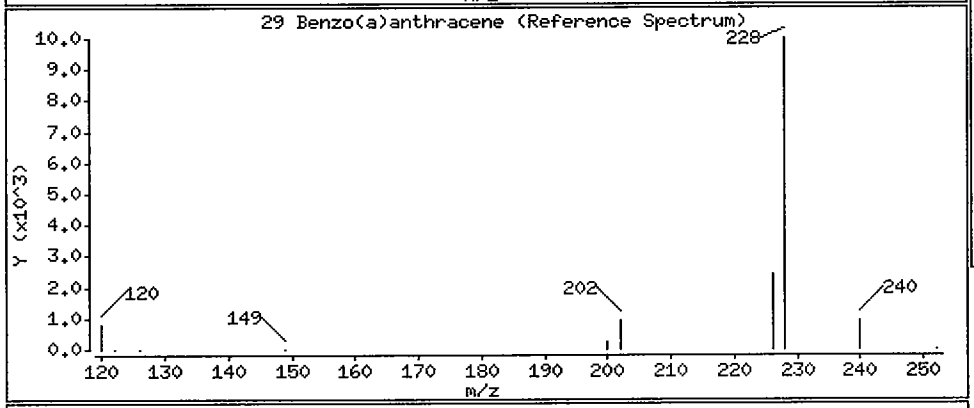
Volume Injected (uL): 2.0 Operator: 2743

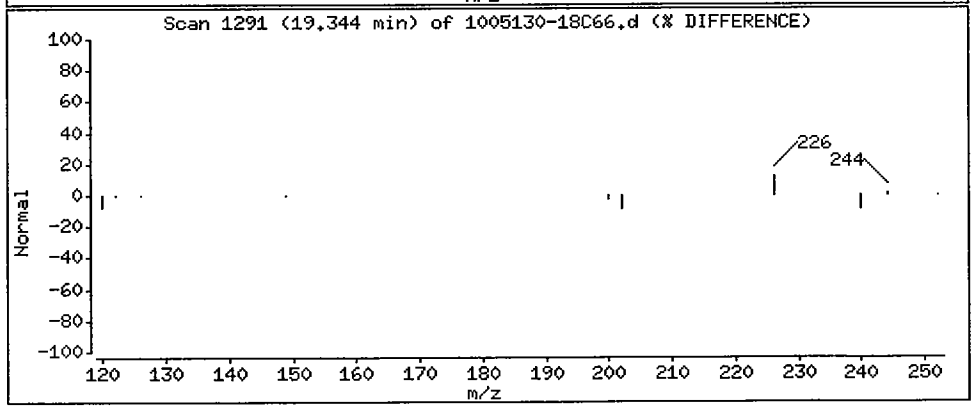
Column phase: Rtx-5MS Column diameter: 0.32

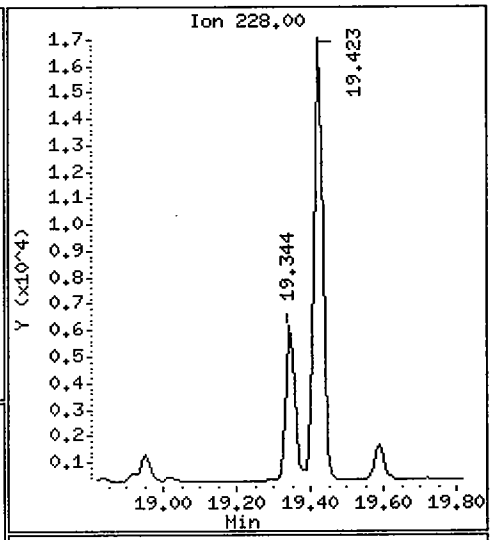
29 Benzo(a)anthracene Concentration: 2.1 ug/Kg

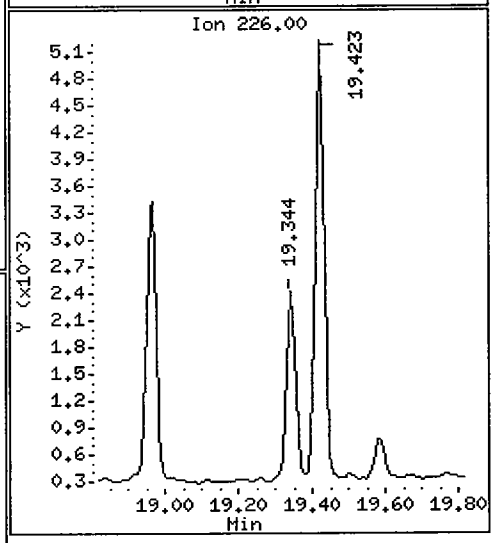












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

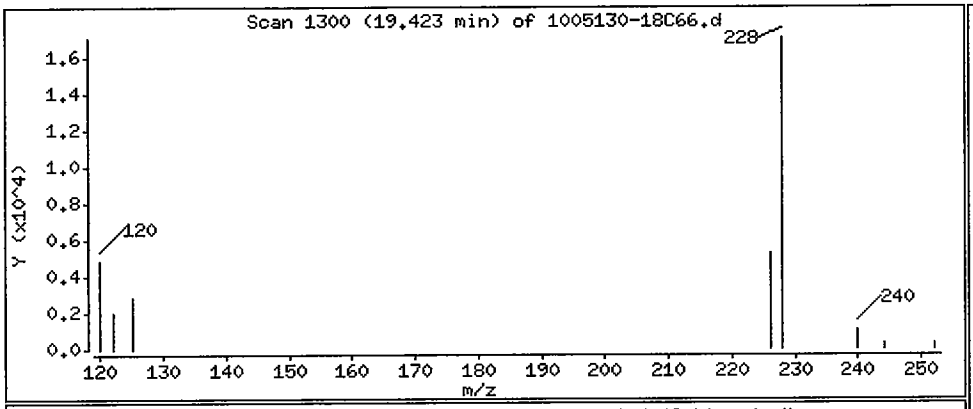
Client ID: SS08-0-1 Instrument: 5972hp66.i

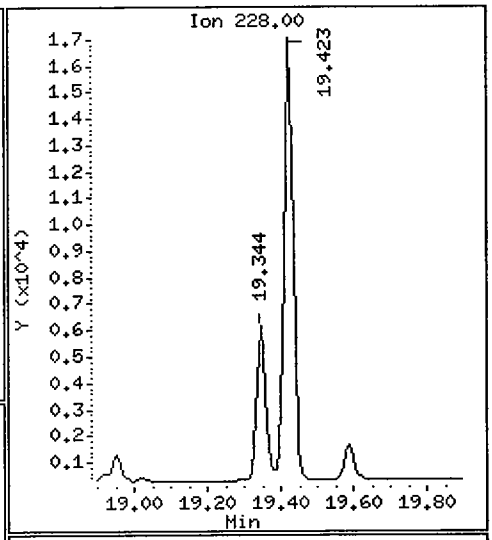
Sample Info: 1005130-18:2743

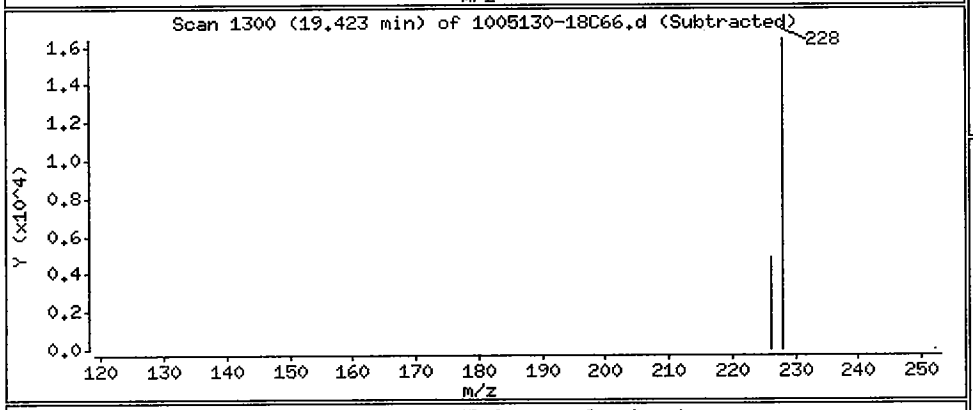
Volume Injected (uL): 2.0 Operator: 2743

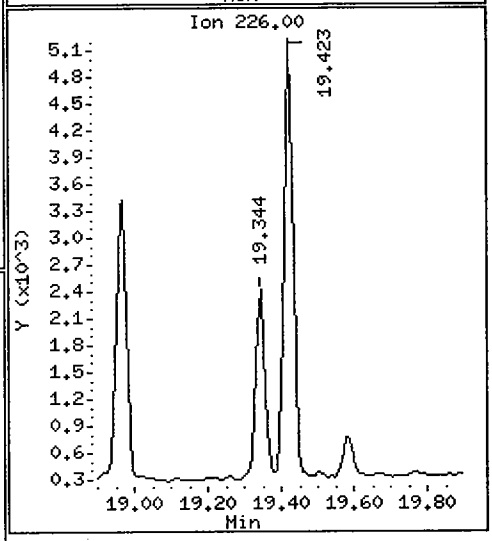
Column phase: Rtx-5MS Column diameter: 0.32

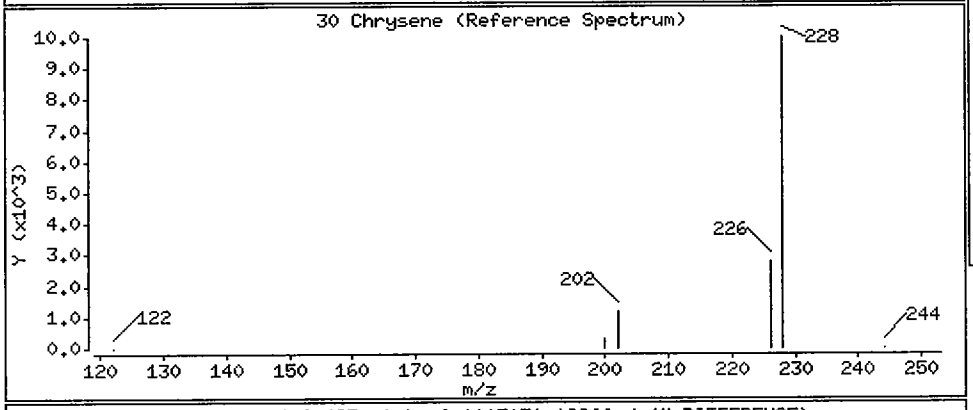
30 Chrysene Concentration: 5.7 ug/Kg

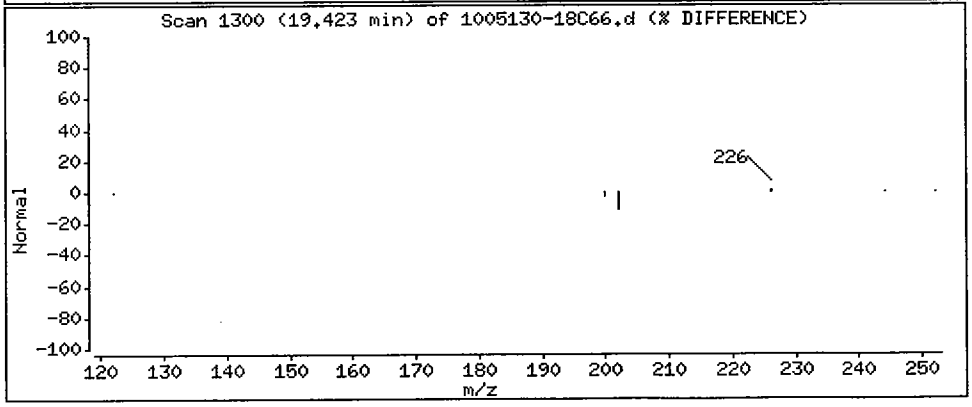












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

Client ID: SS08-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-18:2743

Volume Injected (uL): 2.0

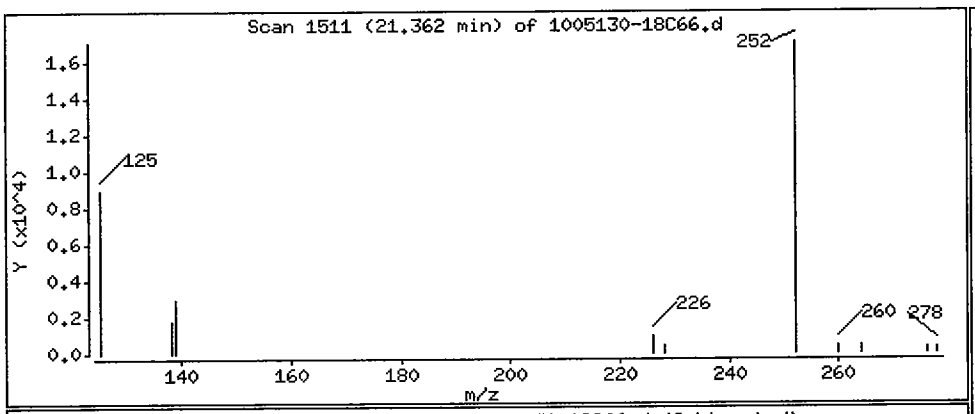
Operator: 2743

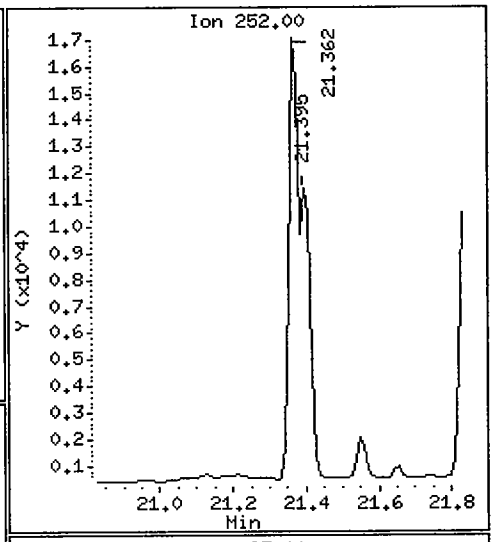
Column phase: Rtx-5MS

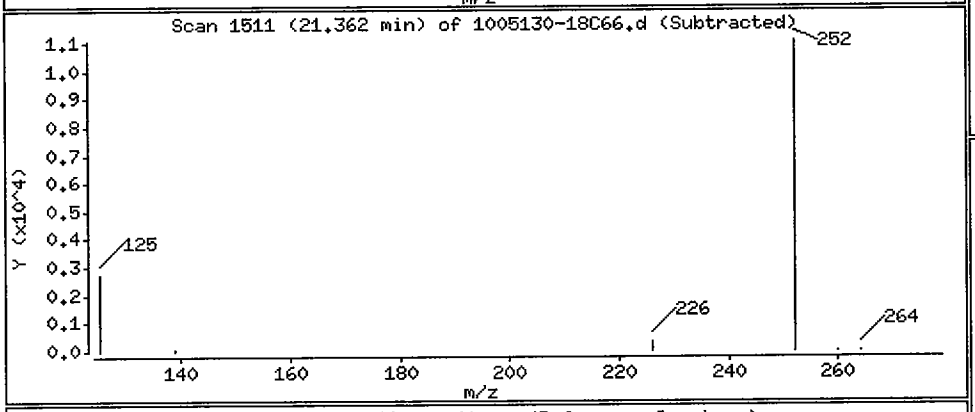
Column diameter: 0.32

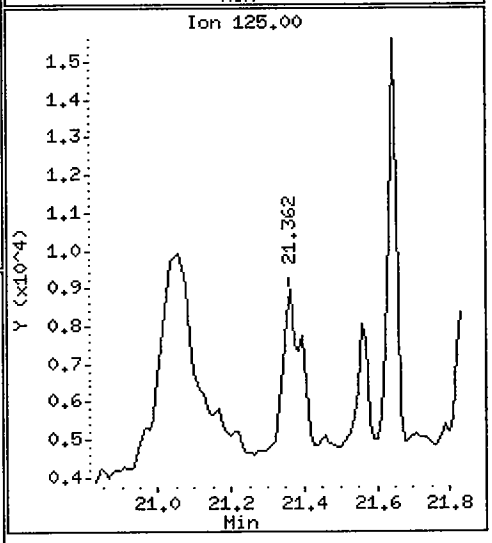
31 Benzo(b)fluoranthene

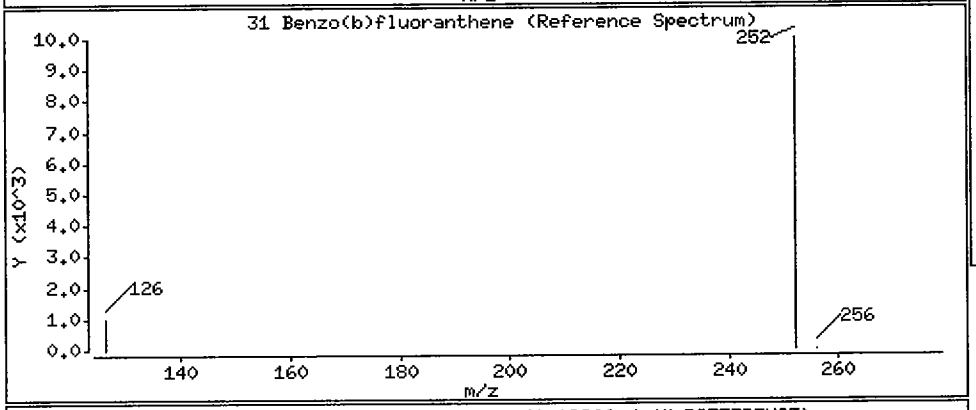
Concentration: 7.4 ug/Kg

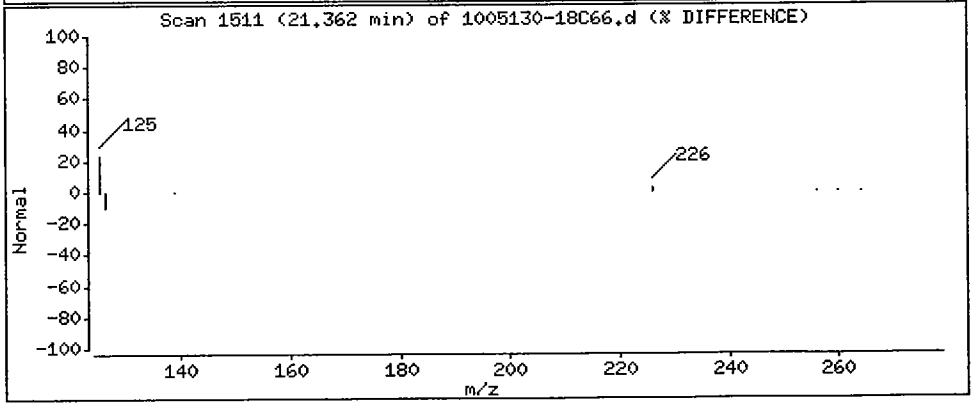












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

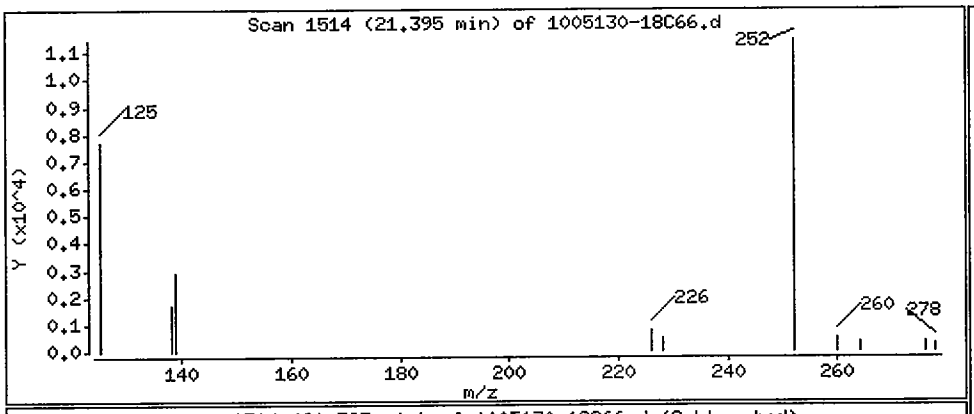
Client ID: SS08-0-1 Instrument: 5972hp66.i

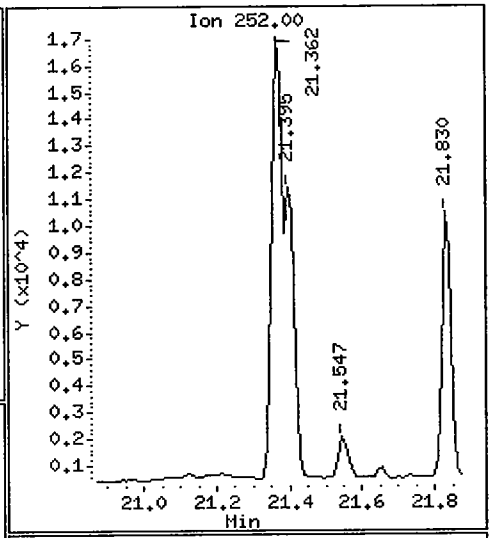
Sample Info: 1005130-18:2743

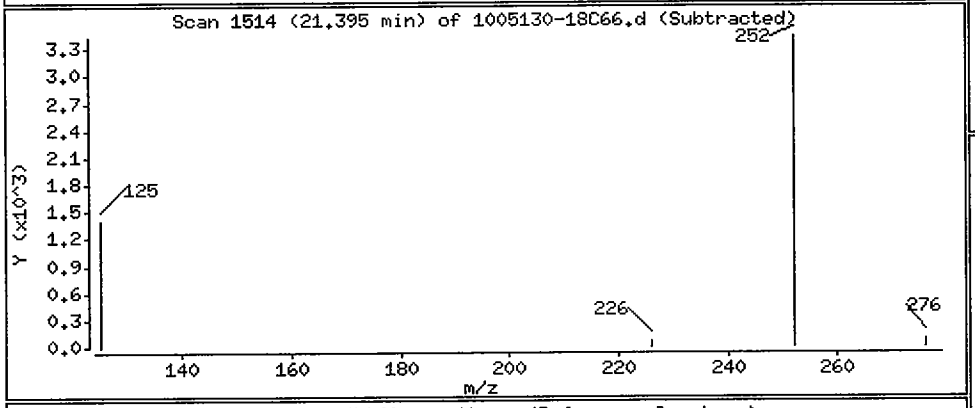
Volume Injected (uL): 2.0 Operator: 2743

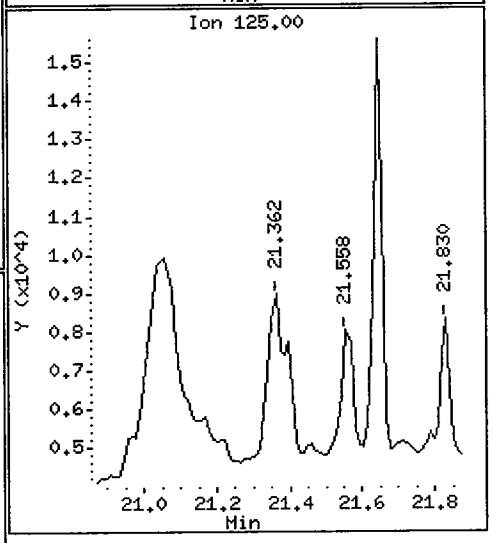
Column phase: Rtx-5MS Column diameter: 0.32

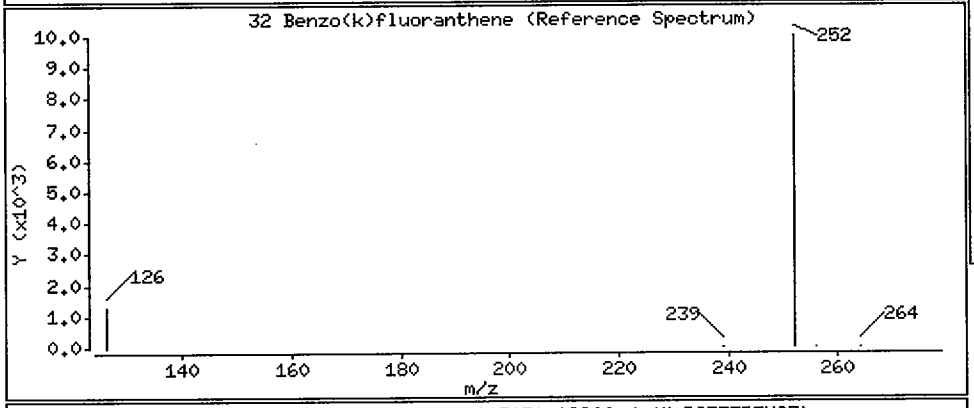
32 Benzo(k)fluoranthene Concentration: 4.9 ug/Kg

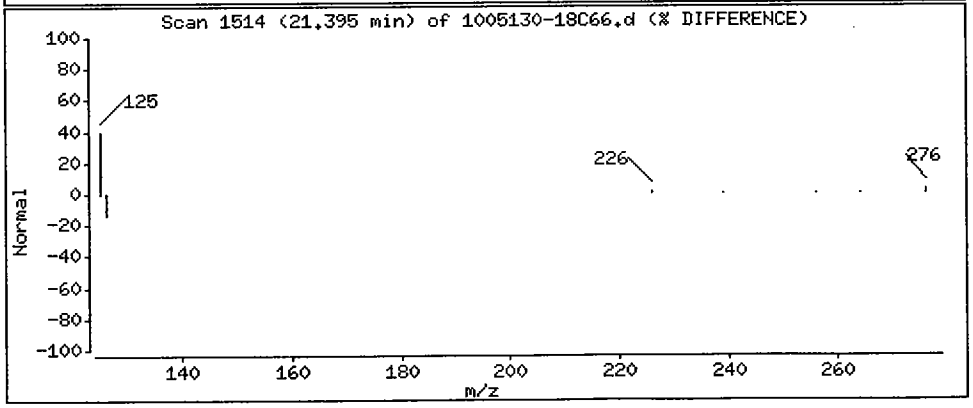












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

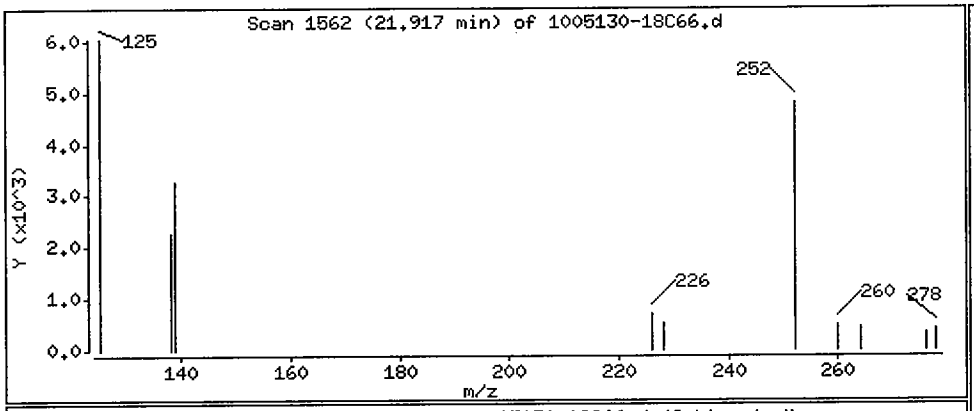
Client ID: SS08-0-1 Instrument: 5972hp66.i

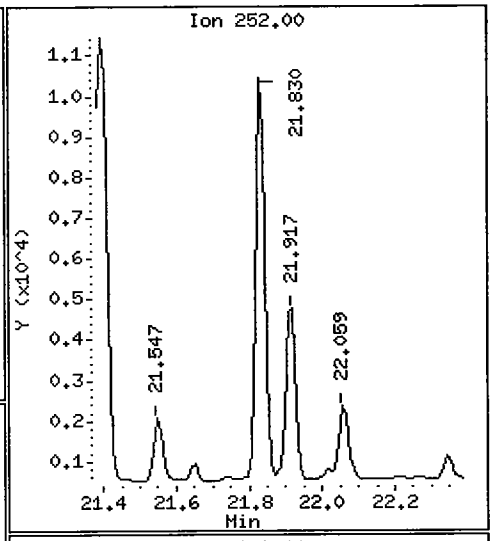
Sample Info: 1005130-18:2743

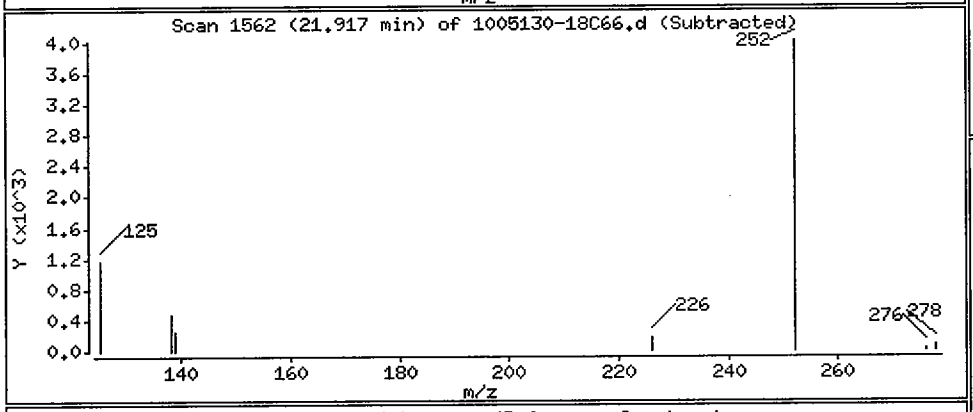
Volume Injected (uL): 2.0 Operator: 2743

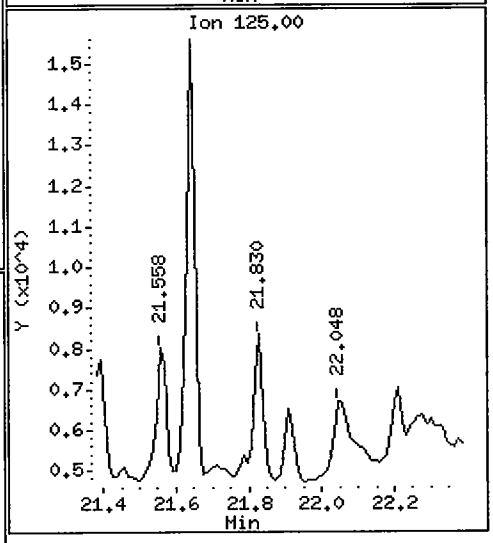
Column phase: Rtx-5MS Column diameter: 0.32

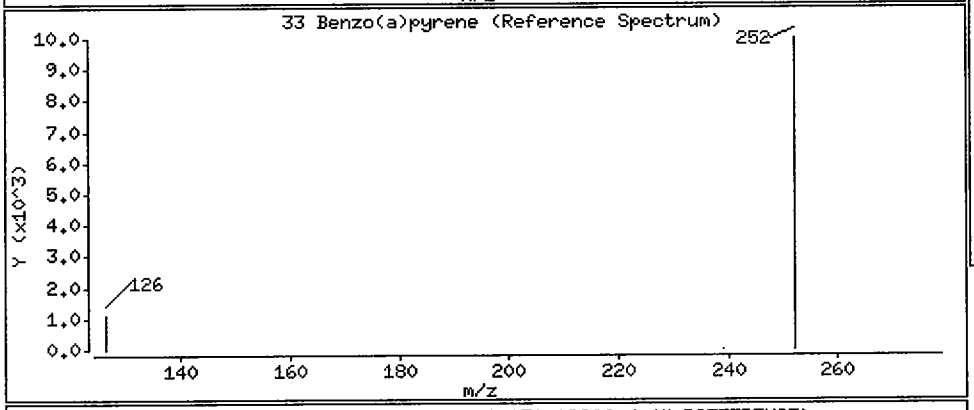
33 Benzo(a)pyrene Concentration: 2.0 ug/Kg

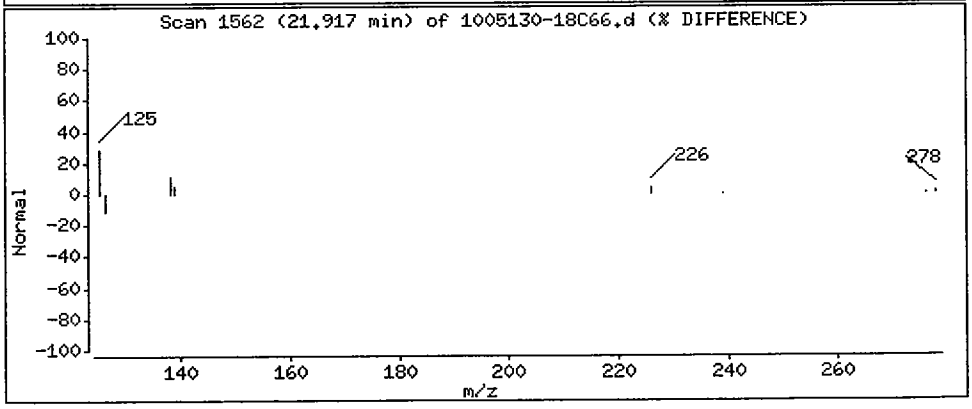












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

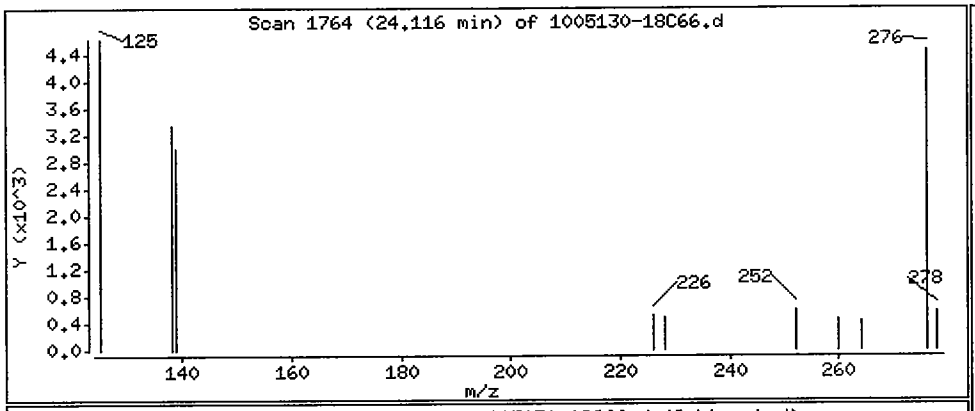
Client ID: SS08-0-1 Instrument: 5972hp66.i

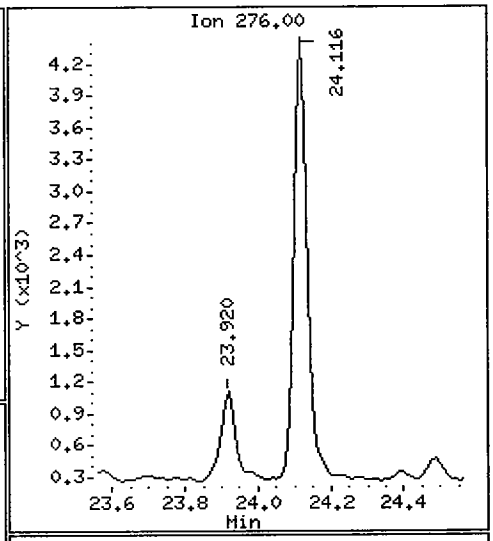
Sample Info: 1005130-18:2743

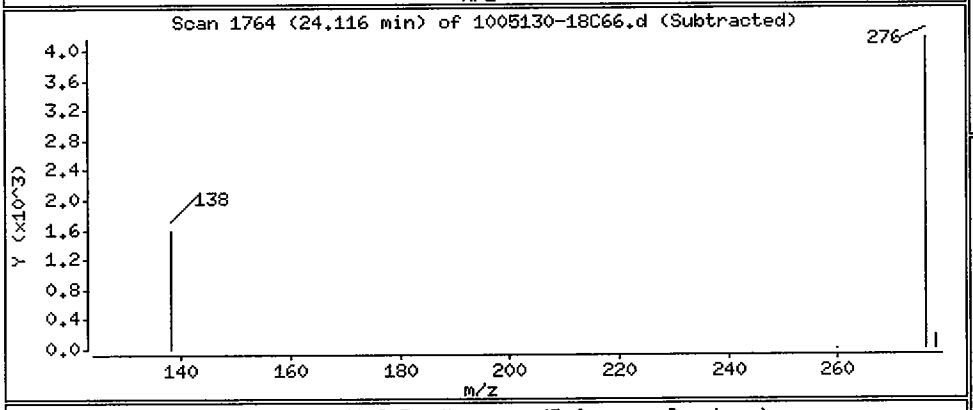
Volume Injected (uL): 2.0 Operator: 2743

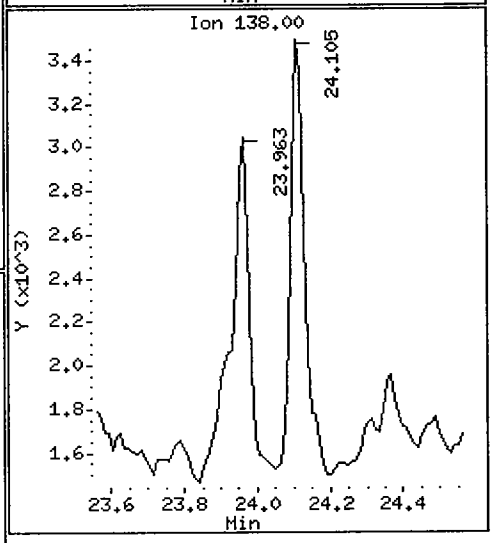
Column phase: Rtx-5MS Column diameter: 0.32

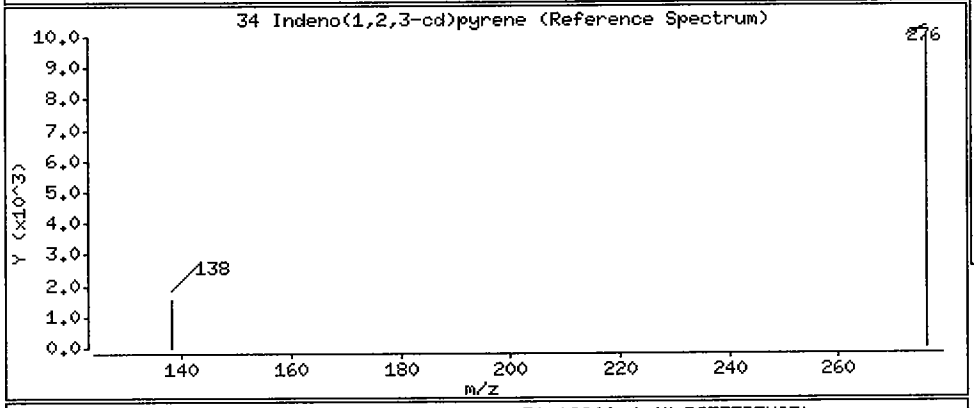
34 Indeno(1,2,3-cd)pyrene Concentration: 3.2 ug/Kg

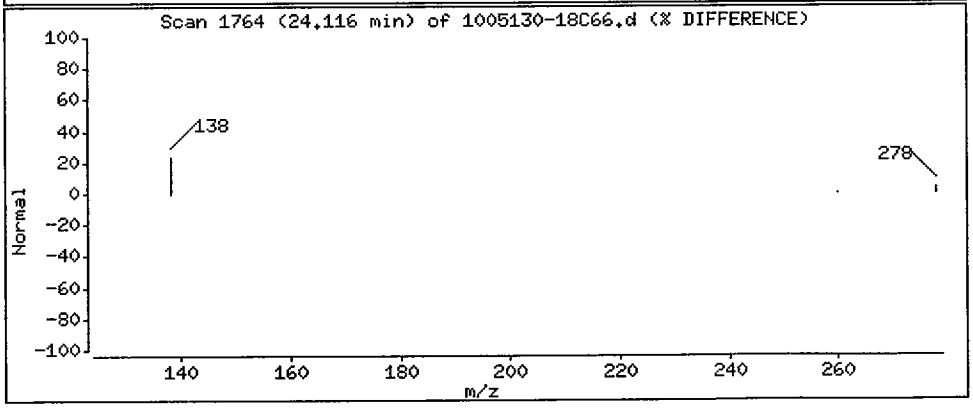












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-18C66.d

Date : 01-JUN-2010 08:55

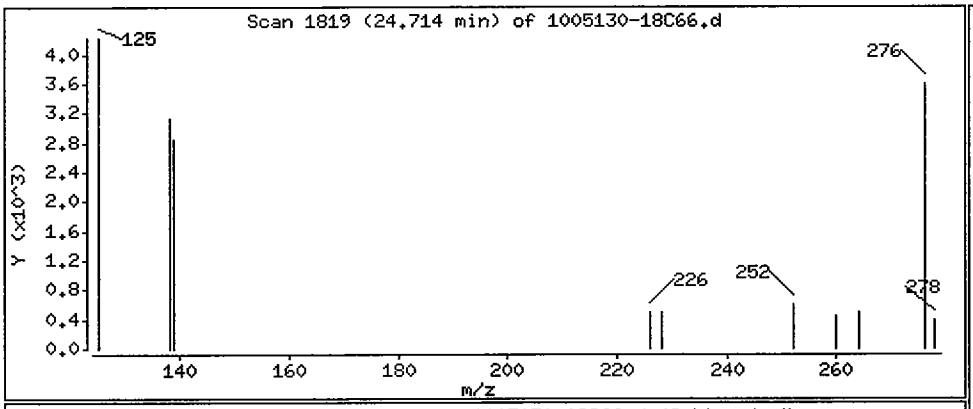
Client ID: SS08-0-1 Instrument: 5972hp66.i

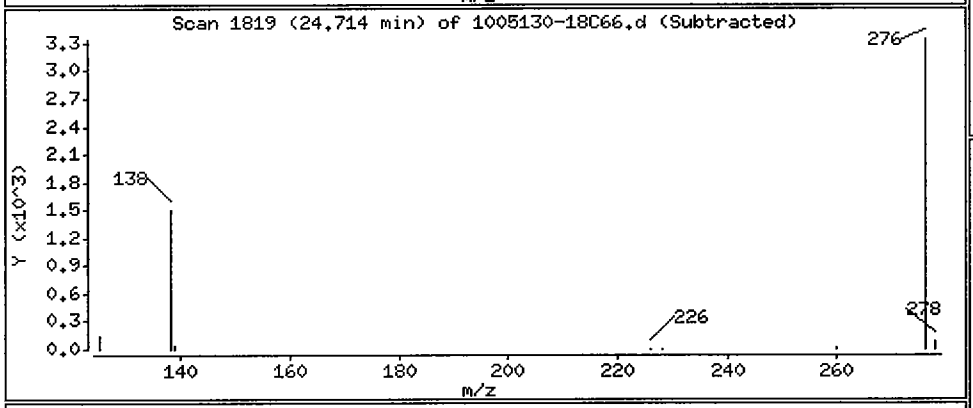
Sample Info: 1005130-18:2743

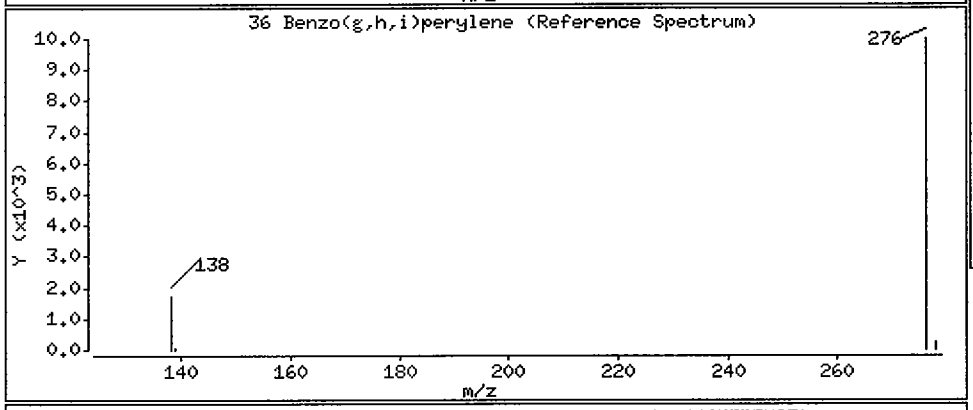
Volume Injected (uL): 2.0 Operator: 2743

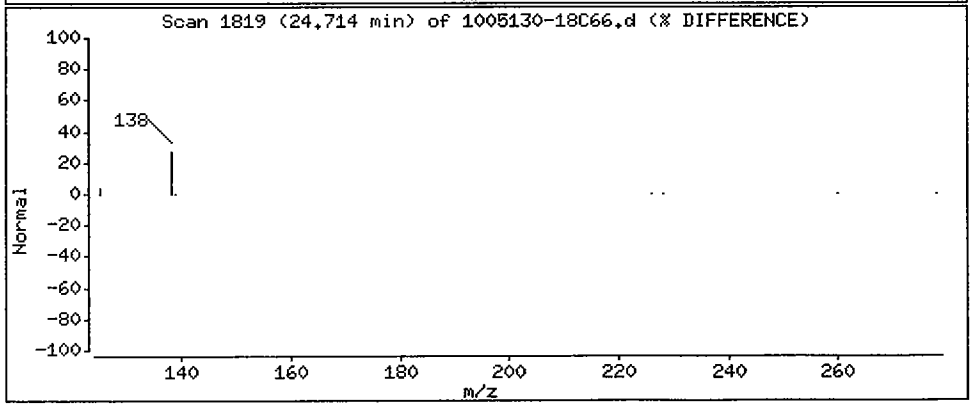
Column phase: Rtx-5MS Column diameter: 0.32

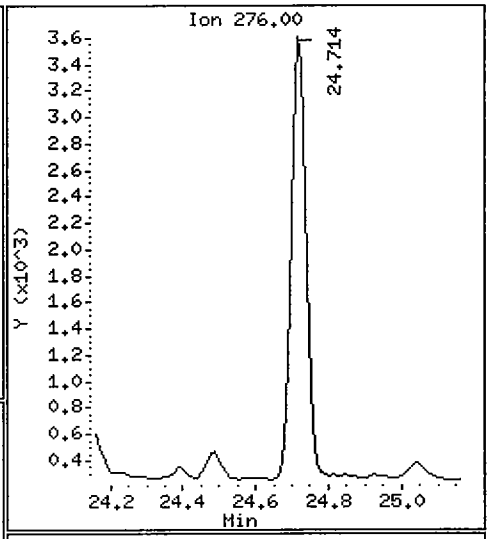
36 Benzo(g,h,i)perylene Concentration: 2.6 ug/Kg

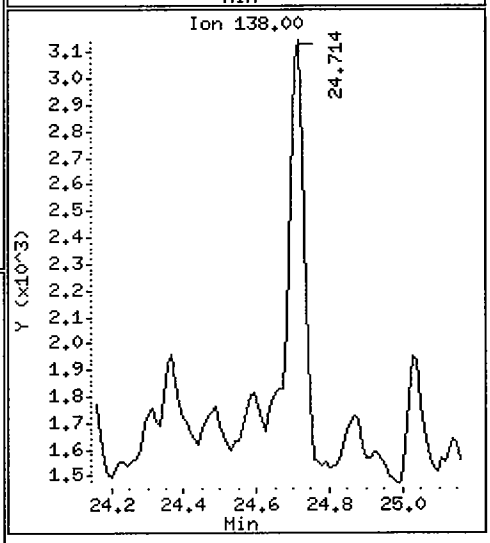












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS11-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-10
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-10C66
Analyst: 2743

% Moisture: 4 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

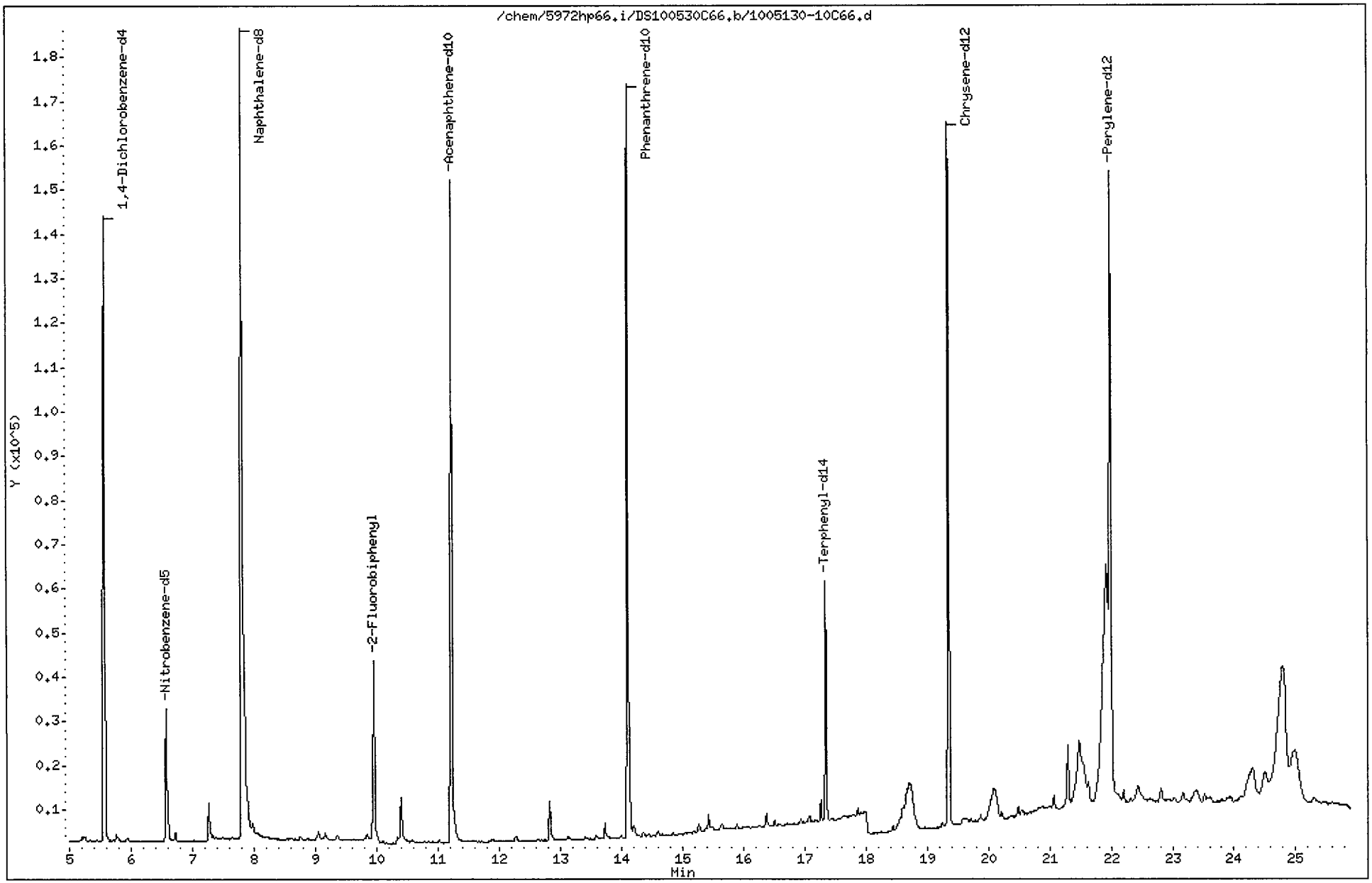
Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.6	ND	U
91-57-6	2-Methylnaphthalene	0.71	8.6	ND	U
208-96-8	Acenaphthylene	0.56	8.6	ND	U
83-32-9	Acenaphthene	0.62	8.6	ND	U
86-73-7	Fluorene	0.47	8.6	ND	U
85-01-8	Phenanthrene	1.4	8.6	ND	U
120-12-7	Anthracene	0.45	8.6	ND	U
206-44-0	Fluoranthene	1.4	8.6	ND	U
129-00-0	Pyrene	0.59	8.6	ND	U
56-55-3	Benzo(a)anthracene	0.59	8.6	ND	U
218-01-9	Chrysene	0.66	8.6	ND	U
205-99-2	Benzo(b)fluoranthene	0.59	8.6	ND	U
207-08-9	Benzo(k)fluoranthene	0.45	8.6	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.6	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.38	8.6	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.6	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.6	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-10C66.d
Date : 31-MAY-2010 10:56
Client ID: SS11-0-1
Sample Info: 1005130-10:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/1005130-10C66.d
Report Date: 02-Jun-2010 11:57

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/1005130-10C66.d
Lab Smp Id: 1005130-10 Client Smp ID: SS11-0-1
Inj Date : 31-MAY-2010 10:56
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-10:2743
Misc Info : SS11-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:55 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	4.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.570	5.543	(1.000)	90878	2.00000	
* 2 Naphthalene-d8	136	7.812	7.785	(1.000)	330404	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.206	(1.000)	143213	2.00000	
* 4 Phenanthrene-d10	188	14.114	14.087	(1.000)	266324	2.00000	
* 5 Chrysene-d12	240	19.353	19.336	(1.000)	213048	2.00000	
* 6 Perylene-d12	264	21.993	21.960	(1.000)	163570	2.00000	(M) 2 06/1/10
$ 9 Nitrobenzene-d5	82	6.574	6.547	(0.841)	40213	0.54696	9.5
$ 10 2-Fluorobiphenyl	172	9.963	9.936	(0.887)	70929	0.47461	8.2
$ 12 Terphenyl-d14	244	17.347	17.334	(0.896)	65539	0.84665	15
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

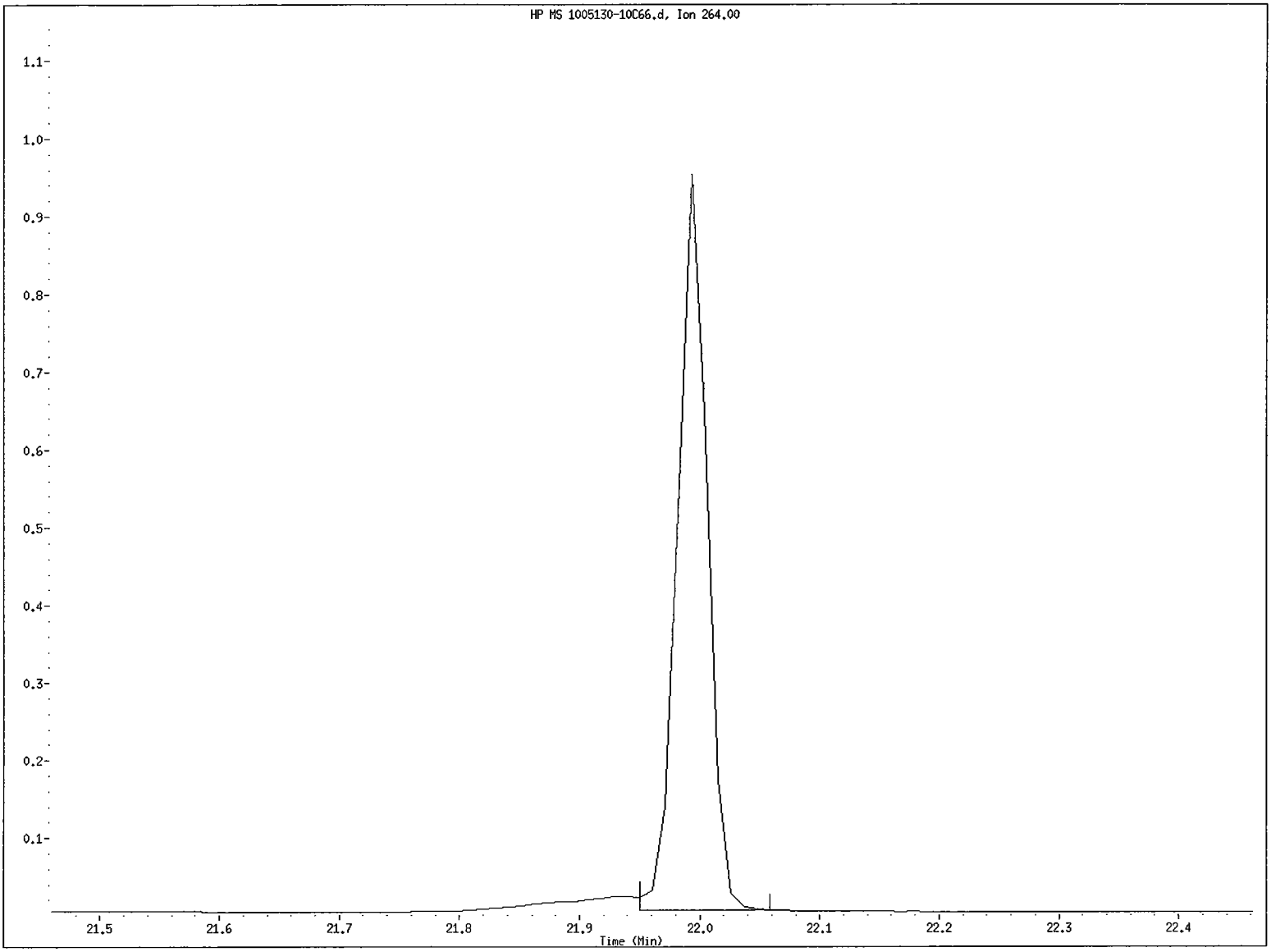
Data File: /chem/5972hp66.i/DS100530C66.b/1005130-10C66.d
Report Date: 02-Jun-2010 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

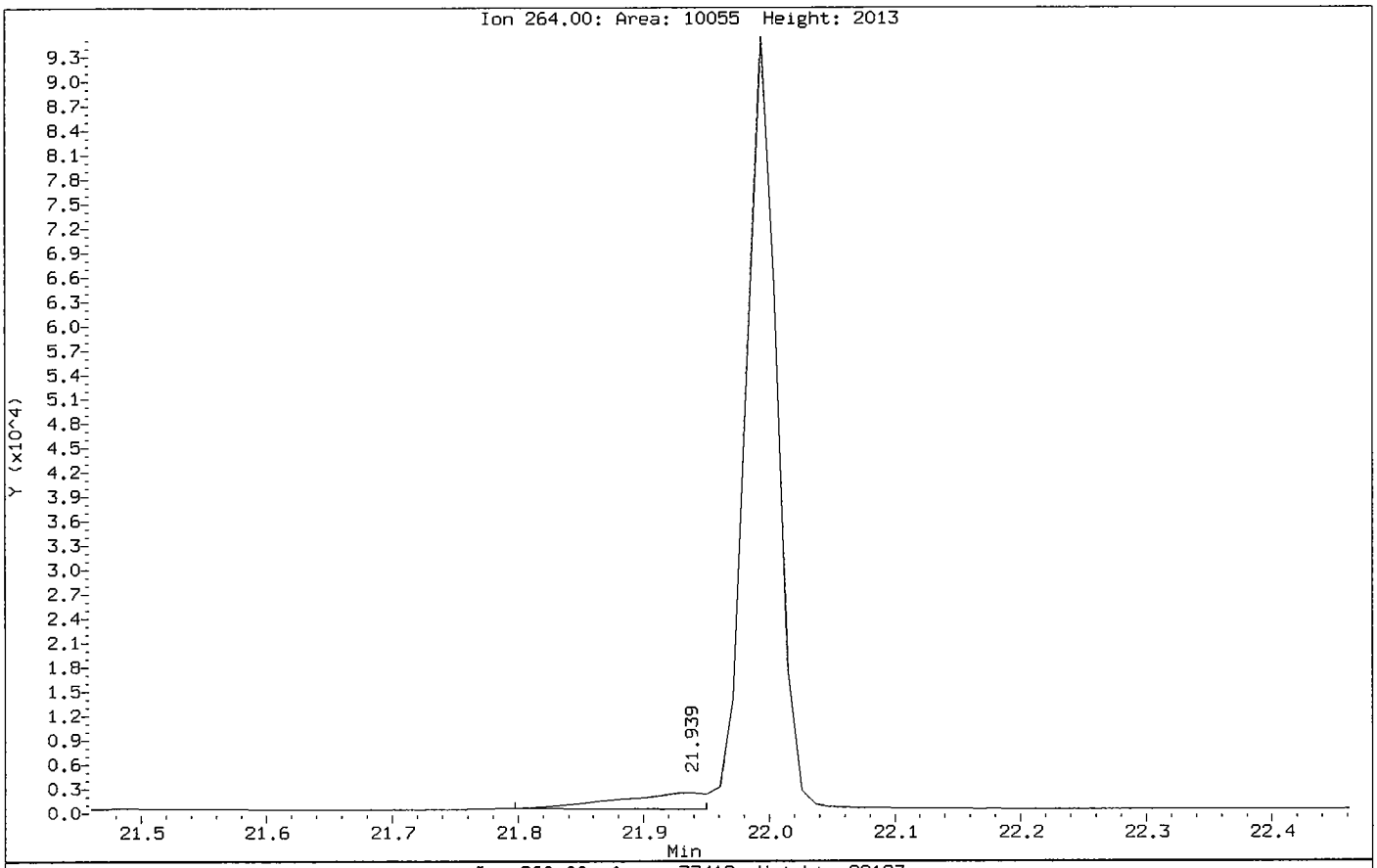
Perylene-d12 CAS Number 1520-96-3 Area = 163570 Manually integrated

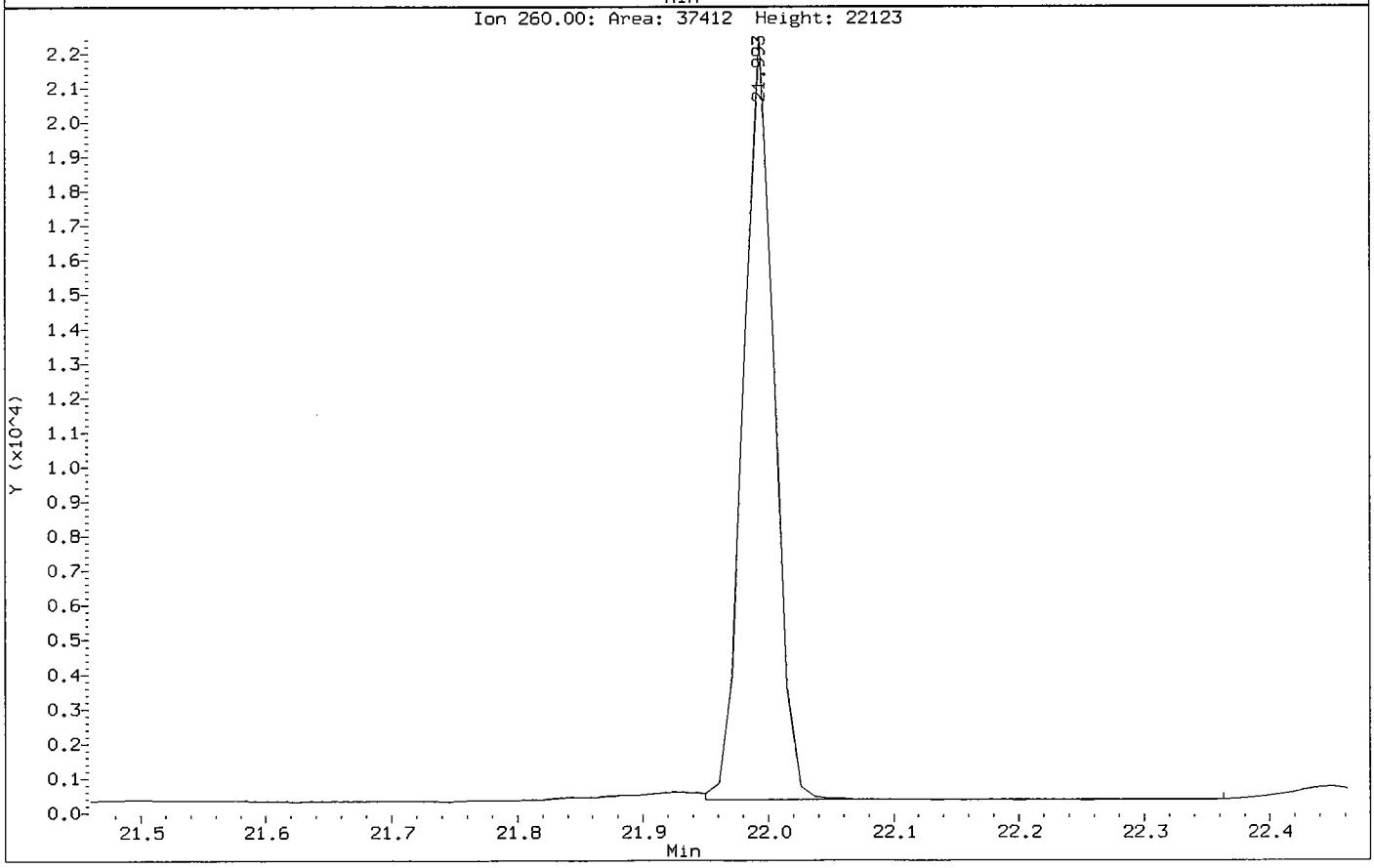


File name: /chem/5972hp66.i/DS100530C66.b/1005130-10C66.d
Client ID: SS11-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 10:56
Retention Time: 21.99
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-10C66.d
Injection Date: 31-MAY-2010 10:56
Instrument: 5972hp66.i
Client Sample ID: SS11-0-1

Compound: Perylene-d12
CAS Number: 1520-96-3





1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS18-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-14
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-14C66
Analyst: 2743

% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

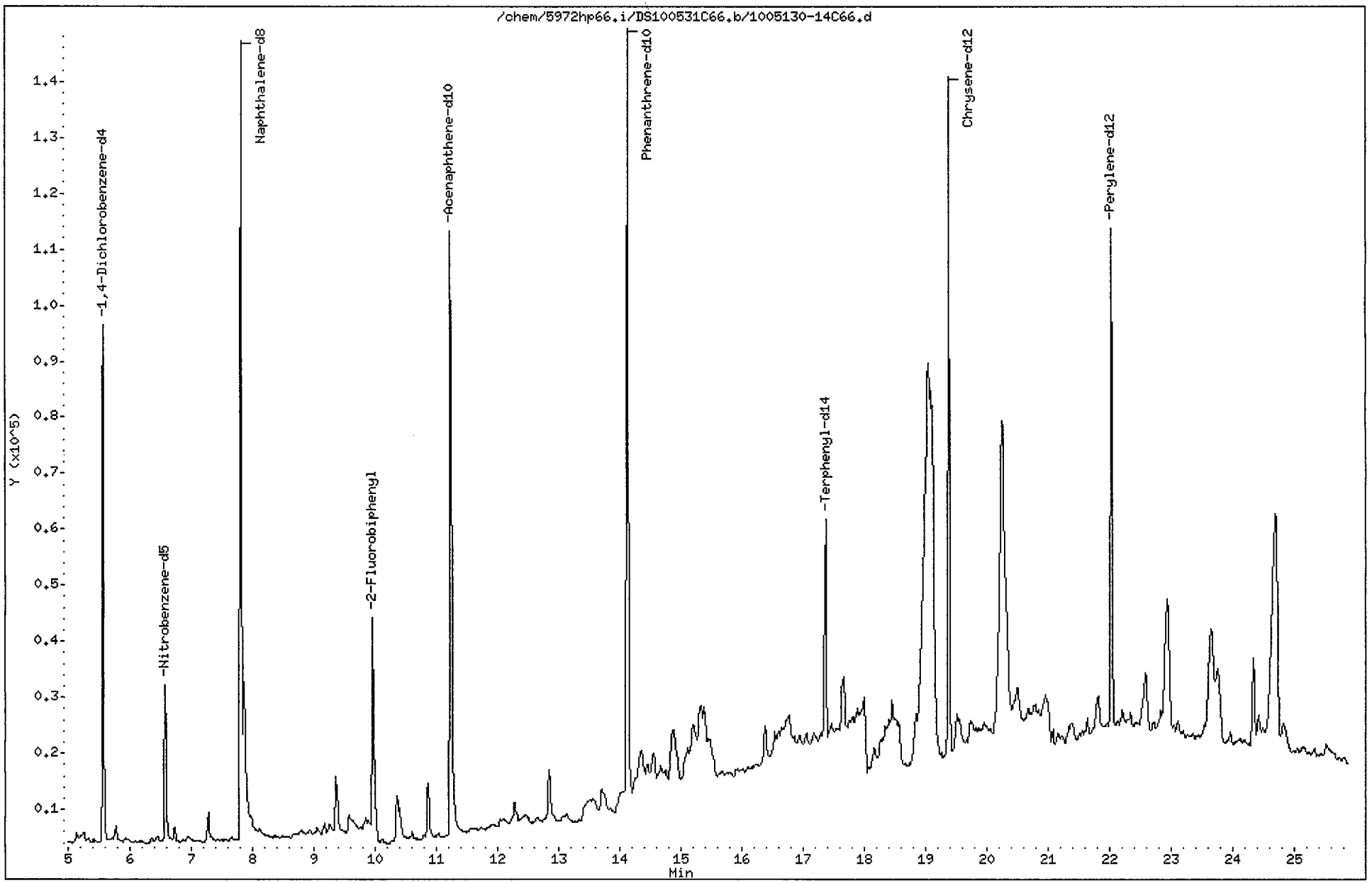
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-14C66.d
Date : 01-JUN-2010 06:39
Client ID: SS18-0-1
Sample Info: 1005130-14:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-14C66.d
Report Date: 02-Jun-2010 12:55

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-14C66.d
Lab Smp Id: 1005130-14 Client Smp ID: SS18-0-1
Inj Date : 01-JUN-2010 06:39
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-14:2743
Misc Info : SS18-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	8.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.572	5.535	(1.000)	60527	2.00000		(a)
*	2 Naphthalene-d8	136	7.814	7.790	(1.000)	227523	2.00000		(a)
*	3 Acenaphthene-d10	164	11.231	11.218	(1.000)	103172	2.00000		(a)
*	4 Phenanthrene-d10	188	14.126	14.101	(1.000)	207342	2.00000		(a)
*	5 Chrysene-d12	240	19.380	19.353	(1.000)	161866	2.00000		(a)
*	6 Perylene-d12	264	22.027	21.983	(1.000)	122367	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.576	6.552	(0.842)	34396	0.67938	12	
$	10 2-Fluorobiphenyl	172	9.965	9.954	(0.887)	61500	0.57123	10	
$	12 Terphenyl-d14	244	17.372	17.347	(0.896)	50282	0.85495	15	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

6/2/10

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-14C66.d
Report Date: 02-Jun-2010 12:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS23-00-01

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/10/10

Lab Sample ID: 1005130-01
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-01JC66
Analyst: 2743

% Moisture: 10 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

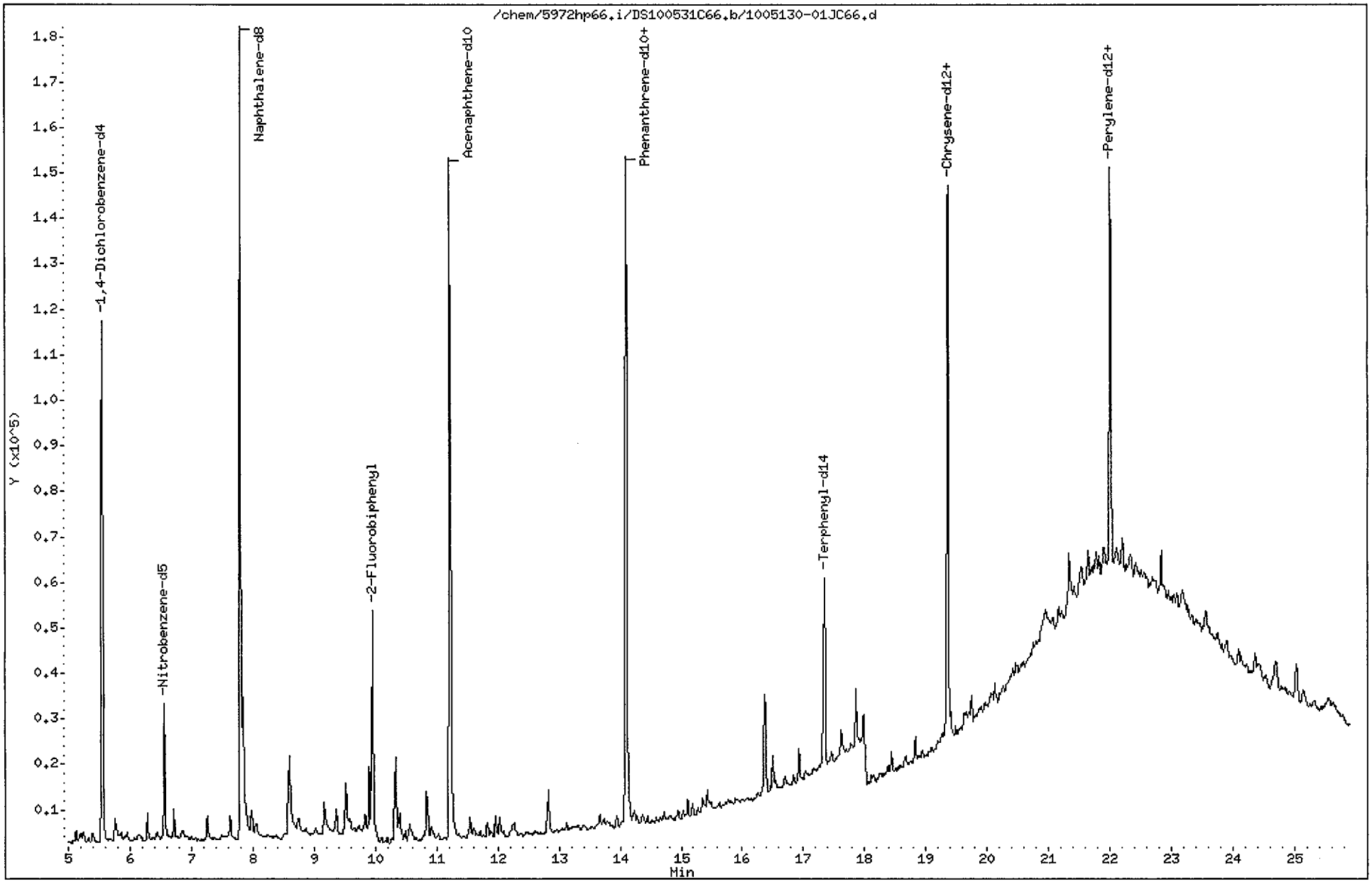
Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.80	9.2	0.89	J
91-57-6	2-Methylnaphthalene	0.76	9.2	ND	U
208-96-8	Acenaphthylene	0.59	9.2	0.60	J
83-32-9	Acenaphthene	0.67	9.2	ND	U
86-73-7	Fluorene	0.50	9.2	ND	U
85-01-8	Phenanthrene	1.5	9.2	1.5	J
120-12-7	Anthracene	0.48	9.2	0.55	J
206-44-0	Fluoranthene	1.5	9.2	ND	U
129-00-0	Pyrene	0.63	9.2	1.5	J
56-55-3	Benzo(a)anthracene	0.63	9.2	0.92	J
218-01-9	Chrysene	0.70	9.2	1.2	J
205-99-2	Benzo(b)fluoranthene	0.63	9.2	1.8	J
207-08-9	Benzo(k)fluoranthene	0.48	9.2	0.99	J
50-32-8	Benzo(a)pyrene	0.43	9.2	1.0	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.2	1.9	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.2	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.2	2.6	J

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Date : 01-JUN-2010 00:25
Client ID: SS23-00-01
Sample Info: 1005130-01:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Report Date: 02-Jun-2010 12:54

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Lab Smp Id: 1005130-01 Client Smp ID: SS23-00-01
Inj Date : 01-JUN-2010 00:25
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-01:2743
Misc Info : SS23-00-01
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	10.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.557	5.535	(1.000)	68378	2.00000	
* 2	Naphthalene-d8	136	7.799	7.790	(1.000)	243919	2.00000	
* 3	Acenaphthene-d10	164	11.217	11.218	(1.000)	117929	2.00000	
* 4	Phenanthrene-d10	188	14.101	14.101	(1.000)	223786	2.00000	
* 5	Chrysene-d12	240	19.362	19.353	(1.000)	167973	2.00000	
* 6	Perylene-d12	264	22.004	21.983	(1.000)	124031	2.00000	
$ 9	Nitrobenzene-d5	82	6.561	6.552	(0.841)	34094	0.62815	12
$ 10	2-Fluorobiphenyl	172	9.950	9.954	(0.887)	72285	0.58739	11
$ 12	Terphenyl-d14	244	17.347	17.347	(0.896)	49552	0.81191	15
13	Naphthalene	128	7.838	7.816	(1.005)	7255	0.04809	0.89(a)
15	2-Methylnaphthalene	141	Compound Not Detected.					
17	Acenaphthylene	152	10.917	10.905	(0.973)	4276	0.03246	0.60(aM)
18	Acenaphthene	154	Compound Not Detected.					

v 6/2/10

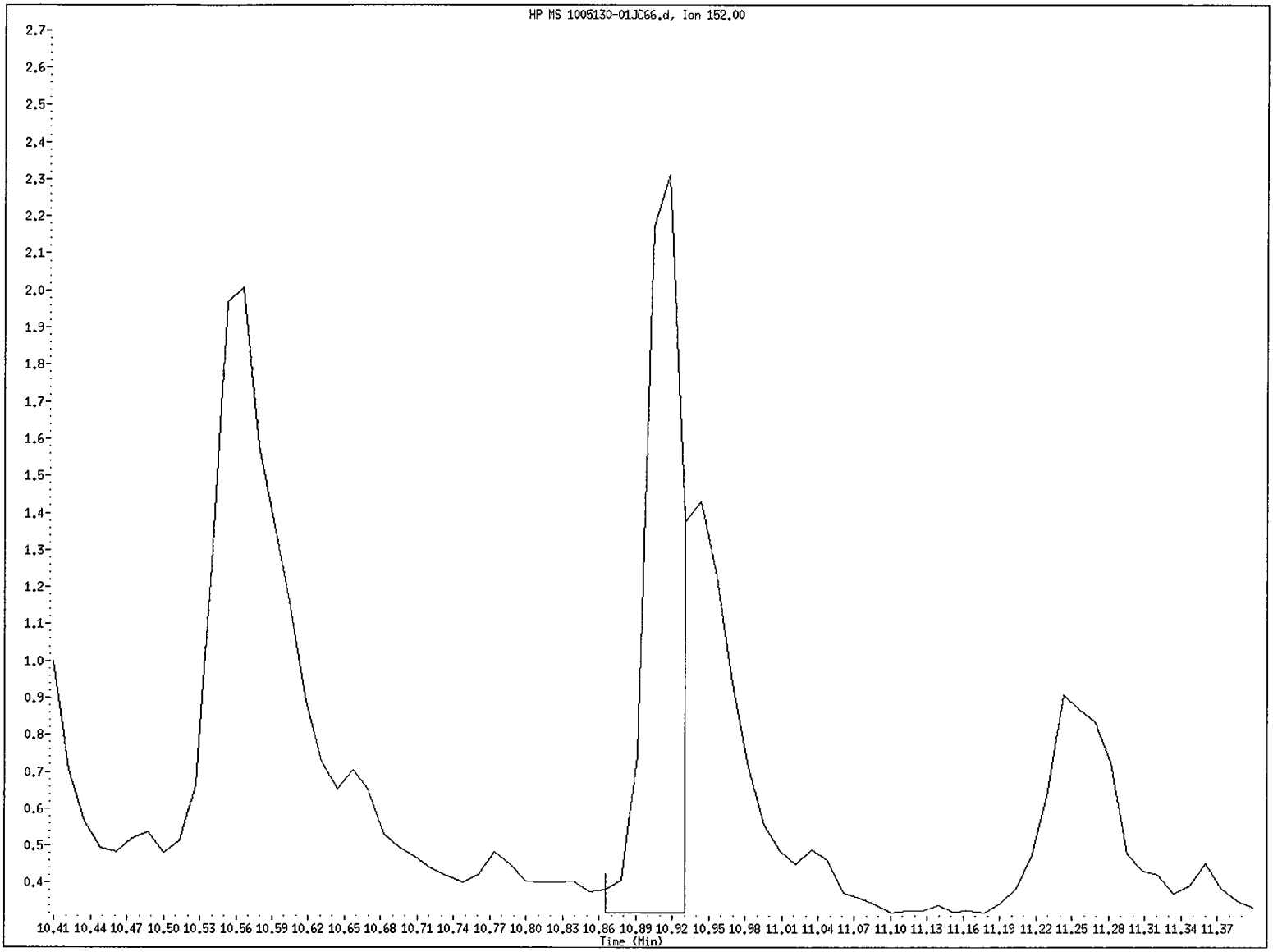
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Report Date: 02-Jun-2010 12:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.153	14.140	(1.004)	11439	0.08197	1.5(a)
26 Anthracene	178	14.231	14.231	(1.009)	3754	0.02991	0.55(a)
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.930	16.930	(0.874)	9561	0.07882	1.5(aM)
29 Benzo(a)anthracene	228	19.327	19.318	(0.998)	4541	0.04973	0.92(a)
30 Chrysene	228	19.405	19.397	(1.002)	6530	0.06603	1.2(aM)
31 Benzo(b)fluoranthene	252	21.351	21.330	(0.970)	7751	0.09476	1.8(aM)
32 Benzo(k)fluoranthene	252	21.384	21.373	(0.972)	4690	0.05328	0.99(aM)
33 Benzo(a)pyrene	252	21.895	21.885	(0.995)	4060	0.05508	1.0(aM)
34 Indeno(1,2,3-cd)pyrene	276	24.094	24.062	(1.095)	6635	0.10203	1.9(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.693	24.661	(1.122)	10084	0.13991	2.6(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

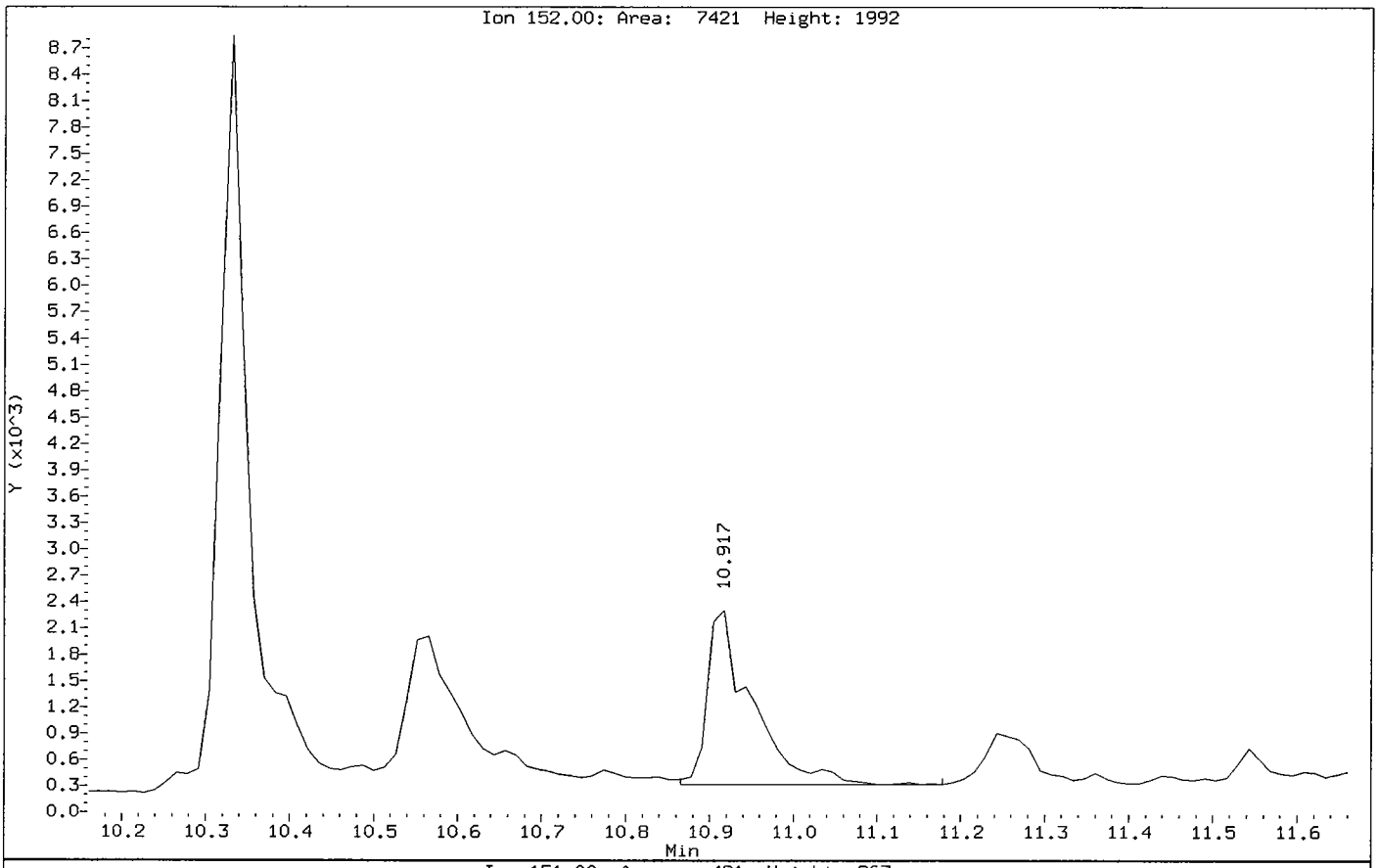
Acenaphthylene CAS Number 208-96-8 Area = 4276 Manually integrated

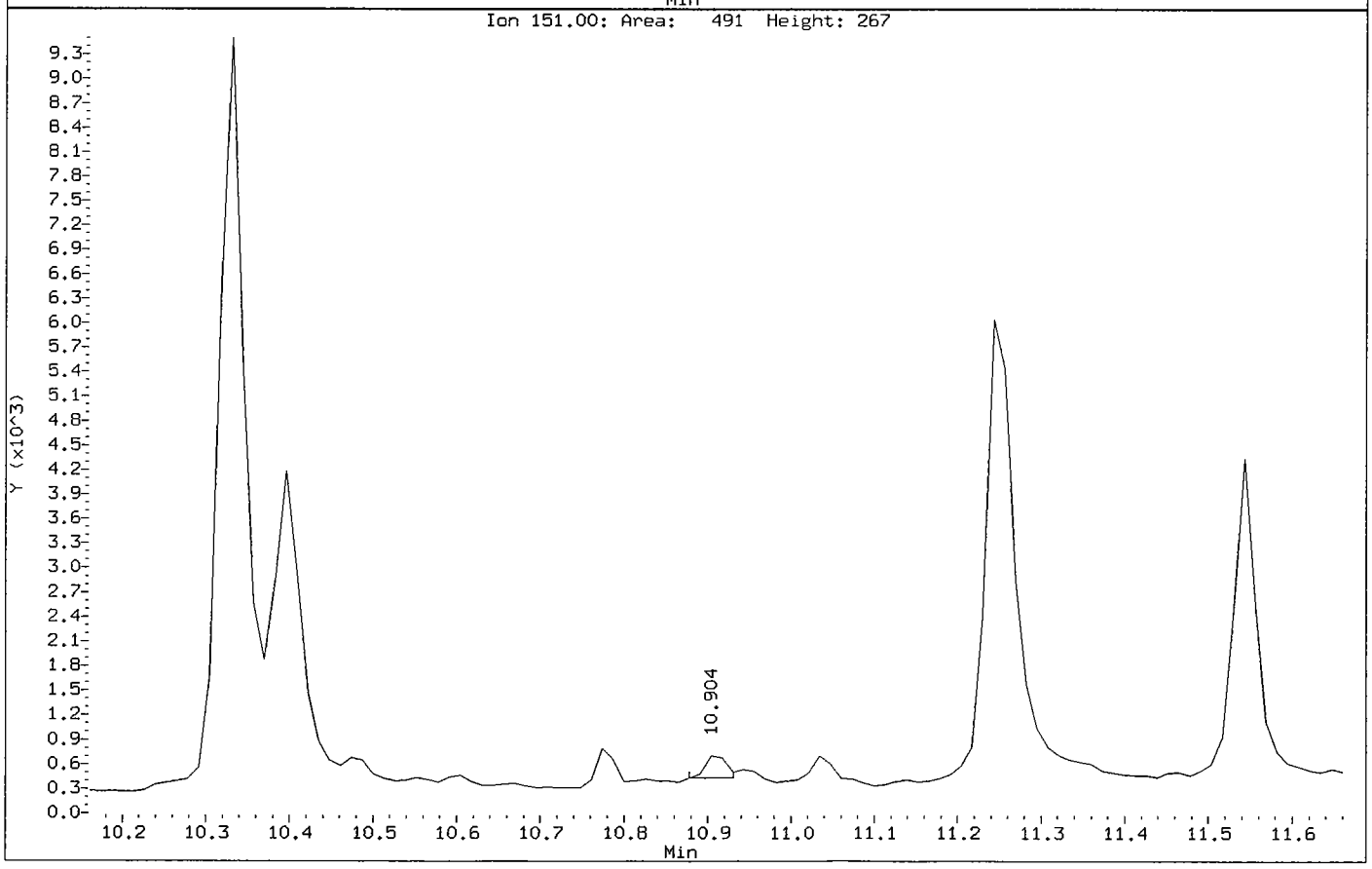


File name: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Client ID: SS23-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 00:25
Retention Time: 10.92
Operator ID: 2743

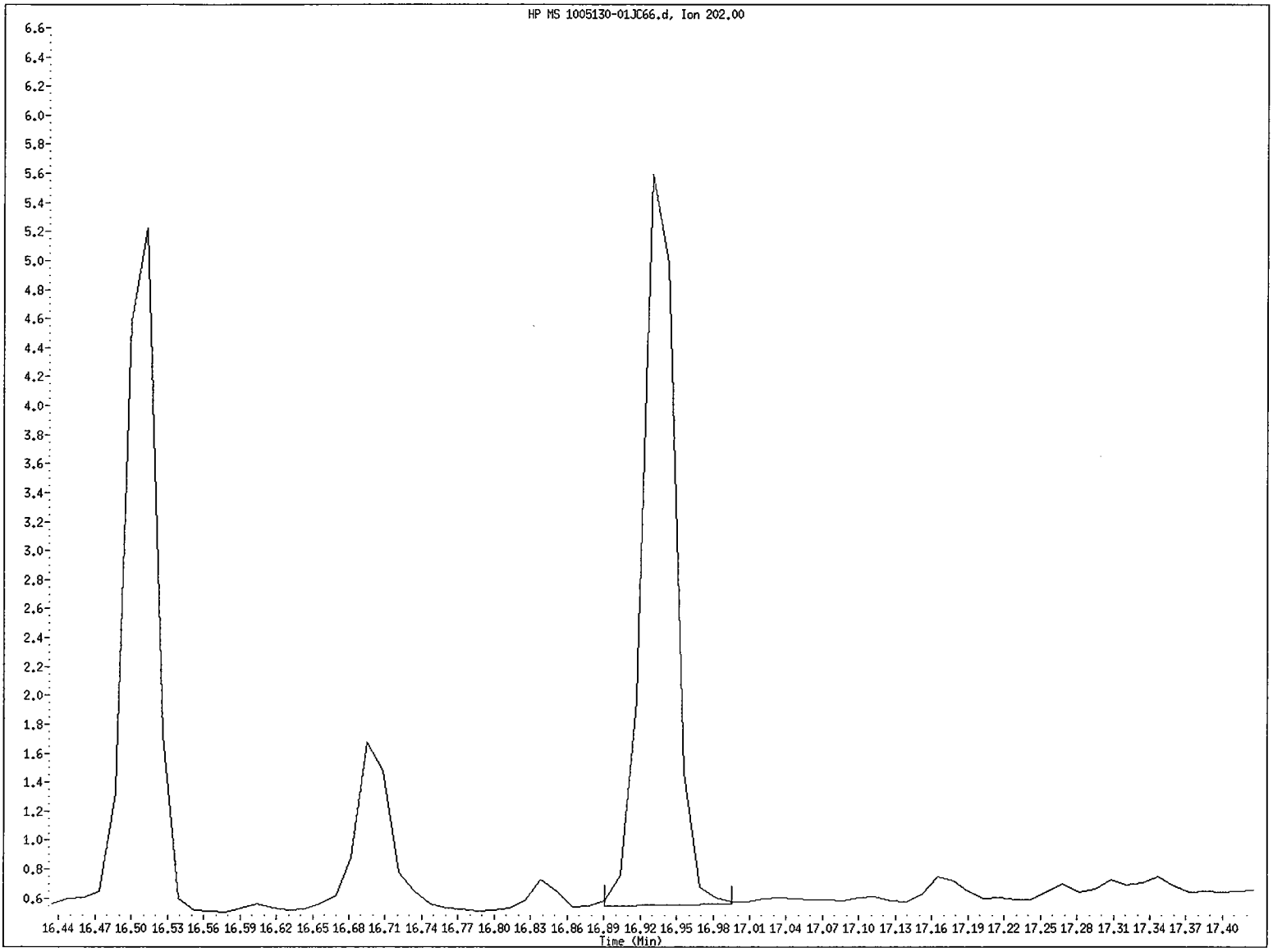
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Injection Date: 01-JUN-2010 00:25
Instrument: 5972hp66.i
Client Sample ID: SS23-00-01

Compound: Acenaphthylene
CAS Number: 208-96-8





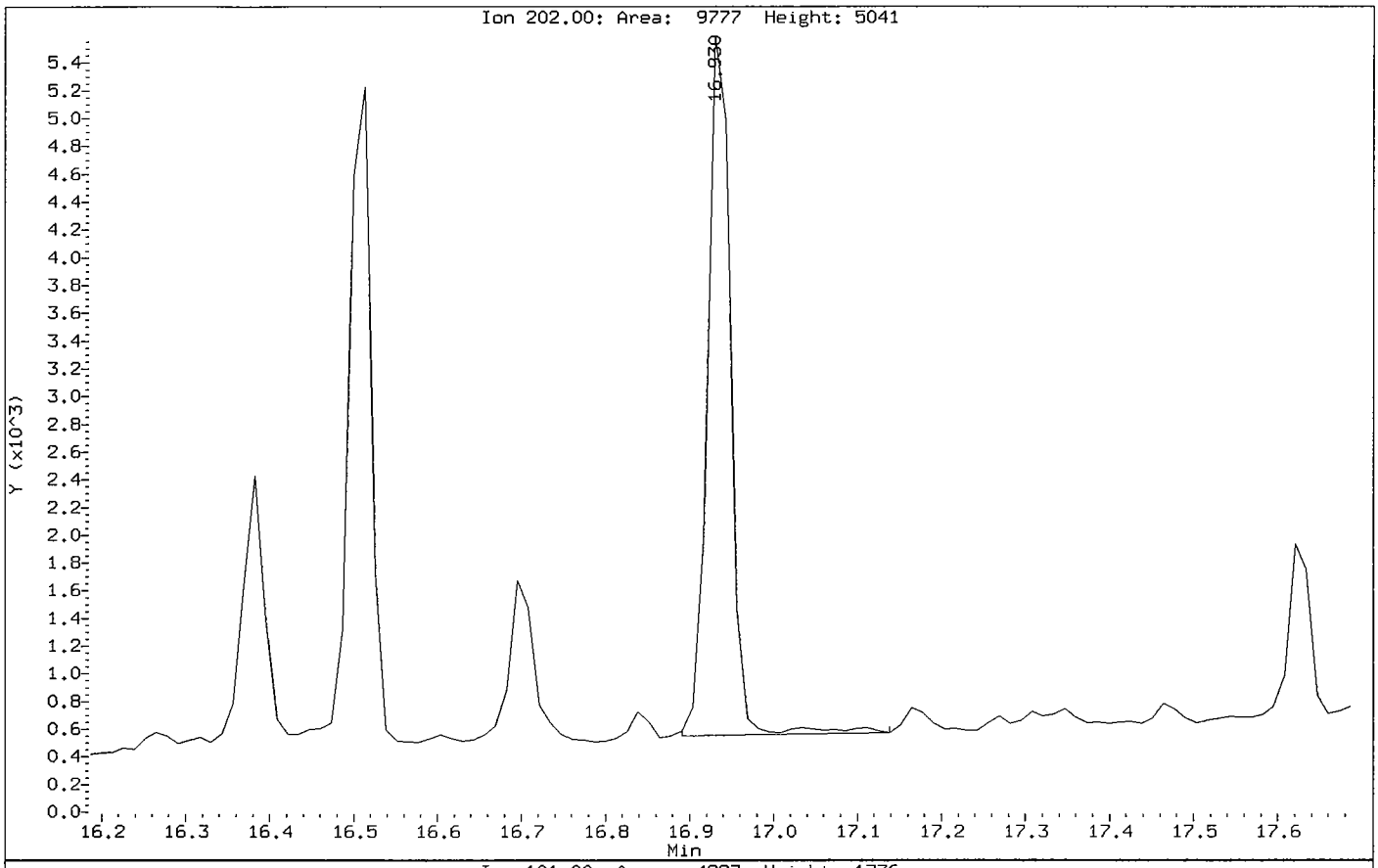
Pyrene CAS Number 129-00-0 Area = 9561 Manually integrated

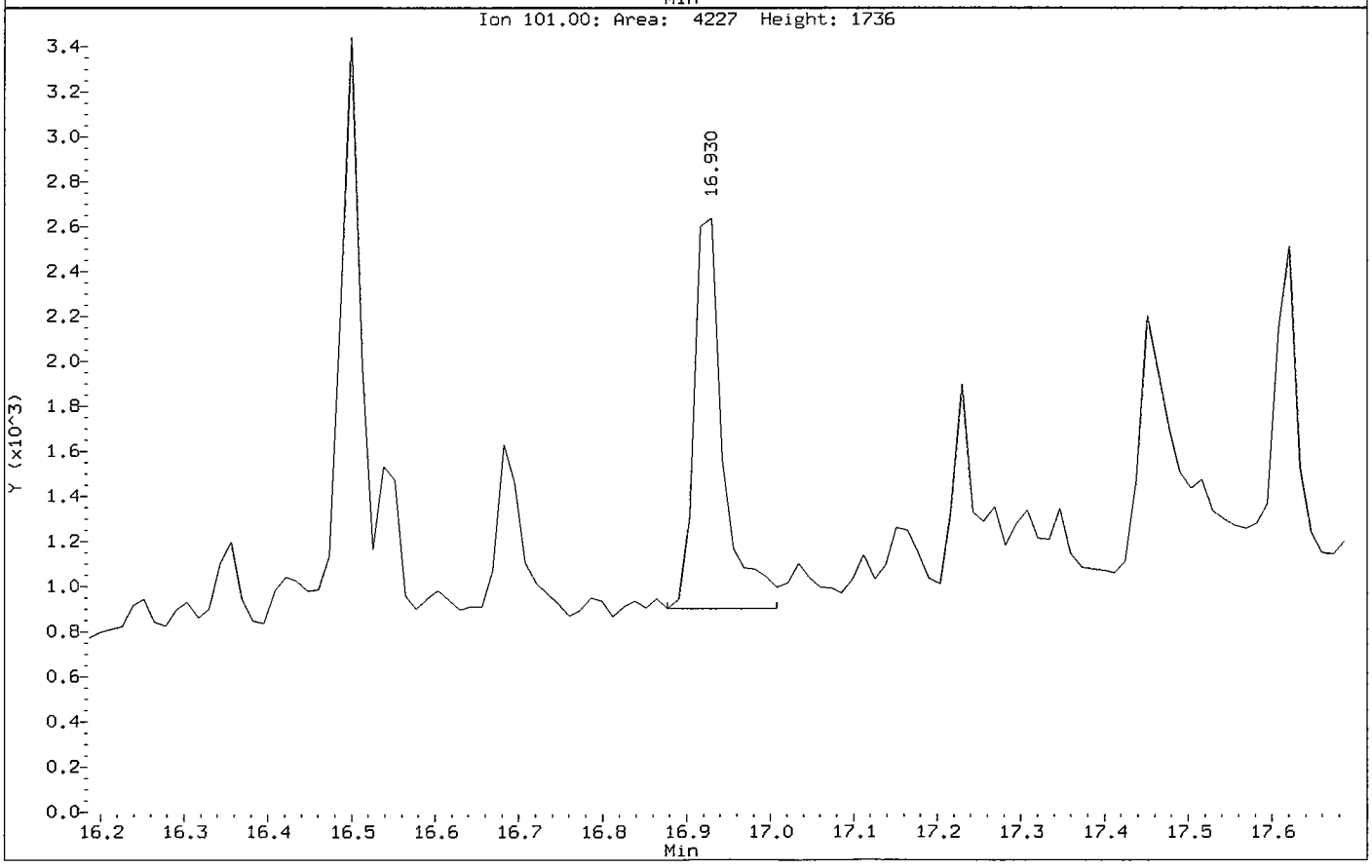


File name: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Client ID: SS23-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 00:25
Retention Time: 16.93
Operator ID: 2743

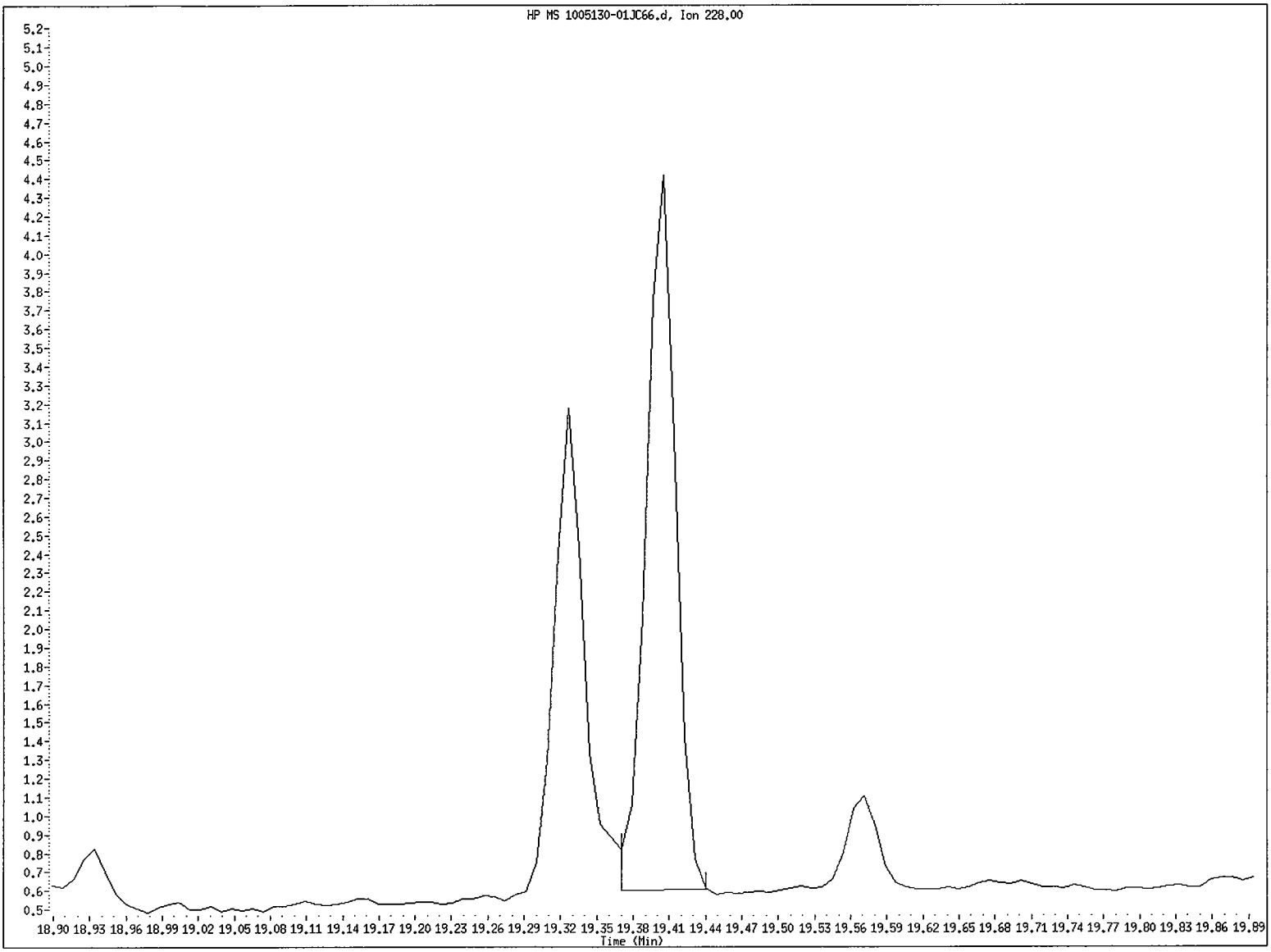
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Injection Date: 01-JUN-2010 00:25
Instrument: 5972hp66.i
Client Sample ID: SS23-00-01

Compound: Pyrene
CAS Number: 129-00-0





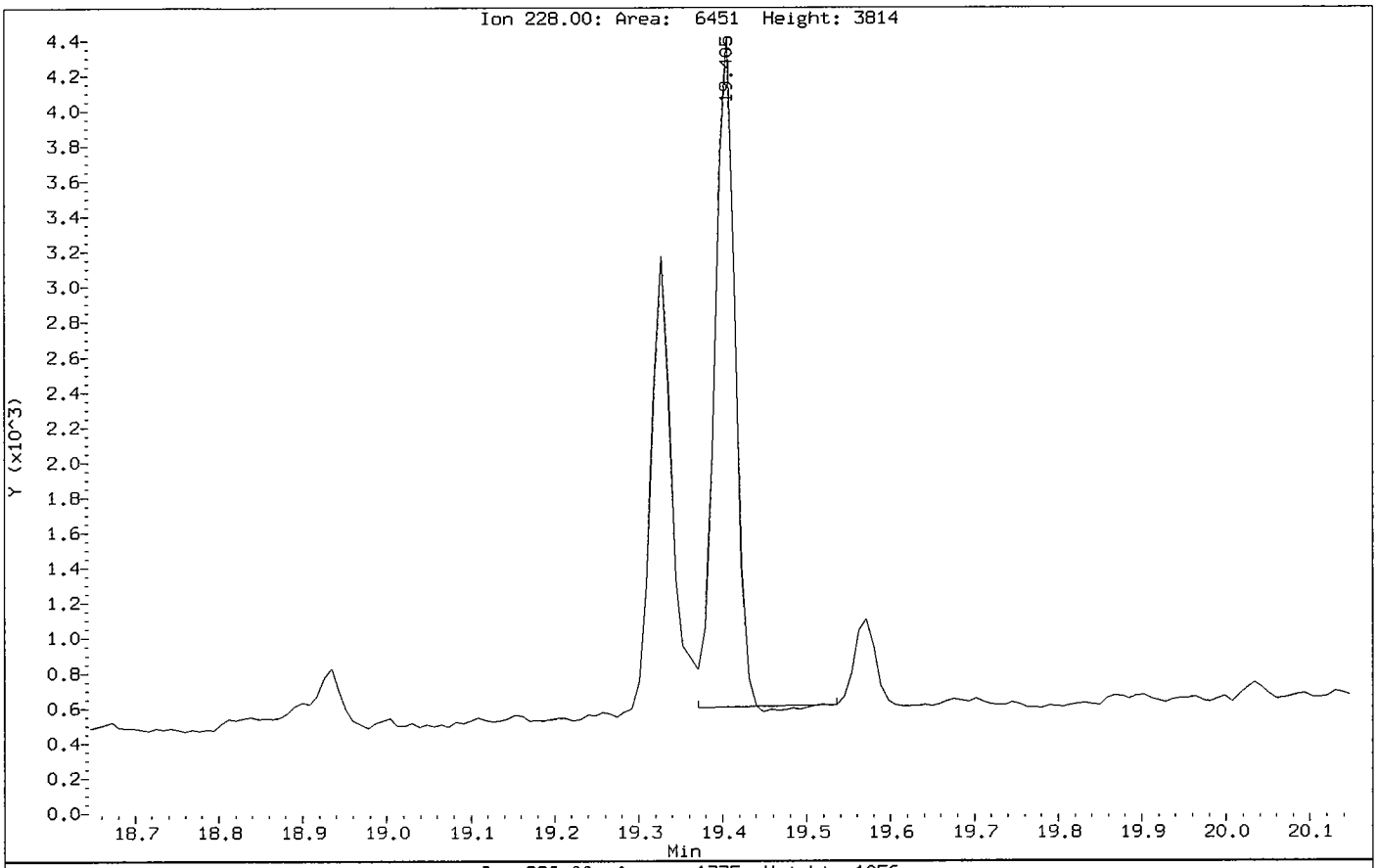
Chrysene CAS Number 218-01-9 Area = 6530 Manually integrated

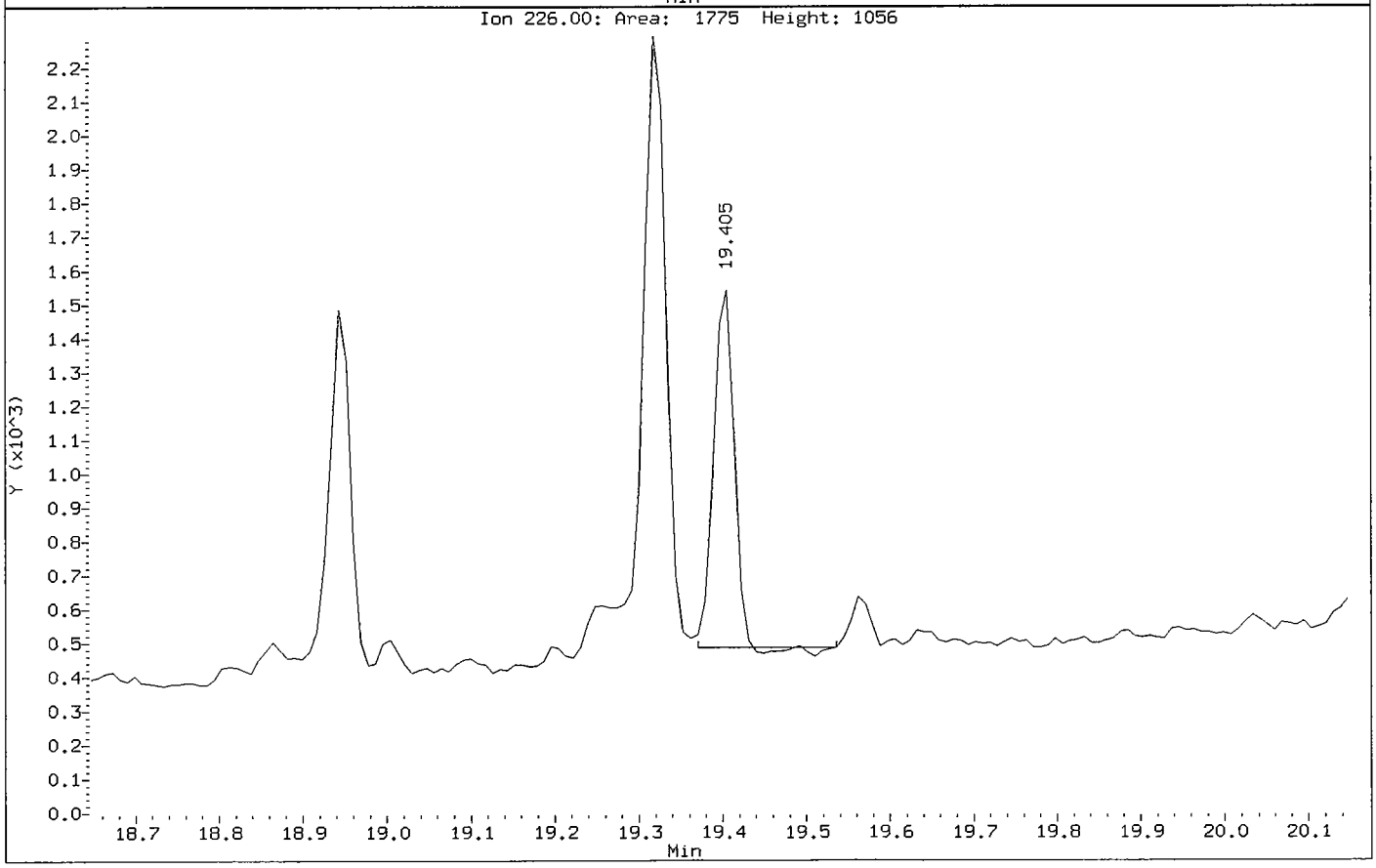


File name: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Client ID: SS23-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 00:25
Retention Time: 19.41
Operator ID: 2743

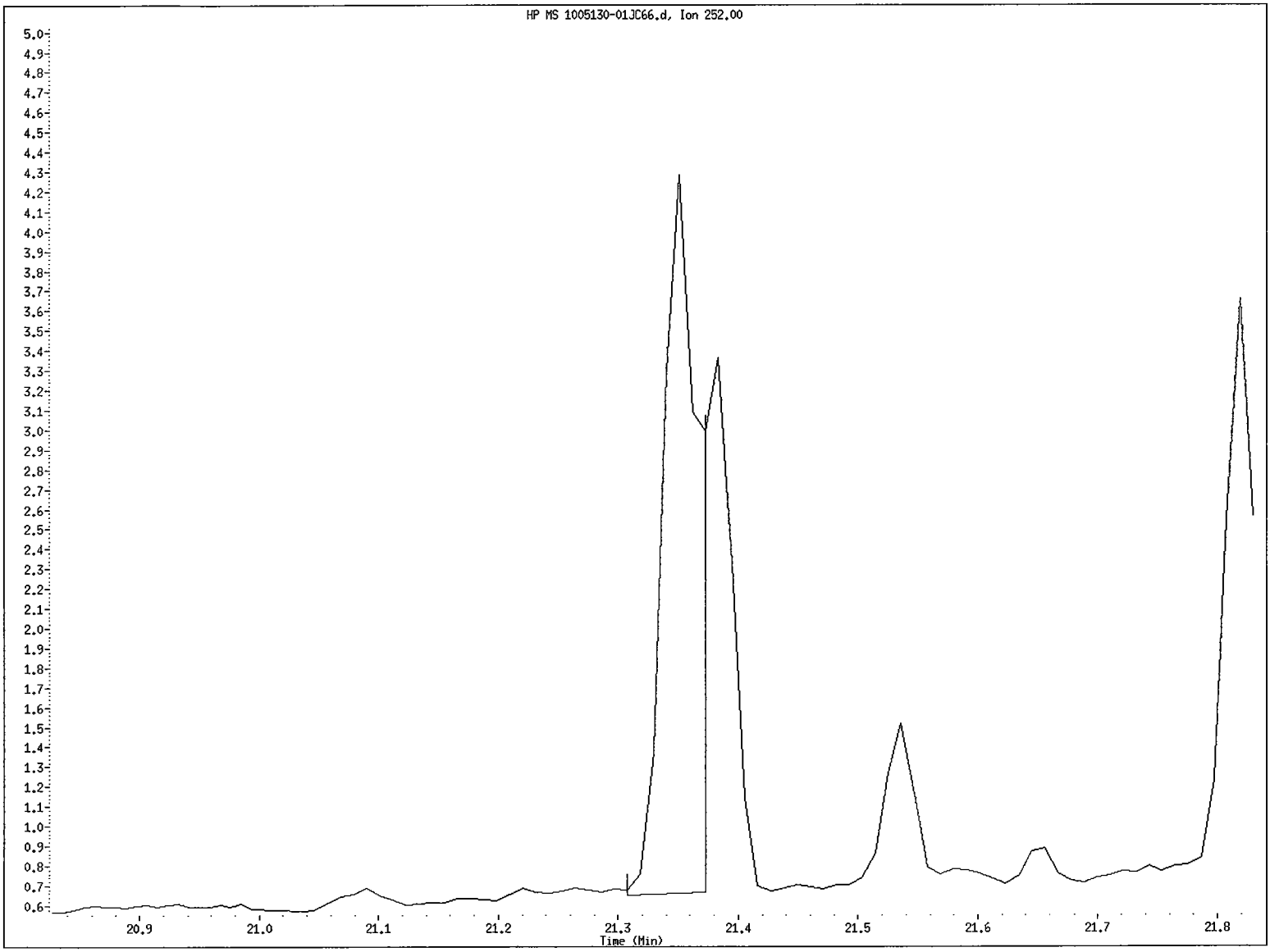
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Injection Date: 01-JUN-2010 00:25
Instrument: 5972hp66.i
Client Sample ID: SS23-00-01

Compound: Chrysene
CAS Number: 218-01-9



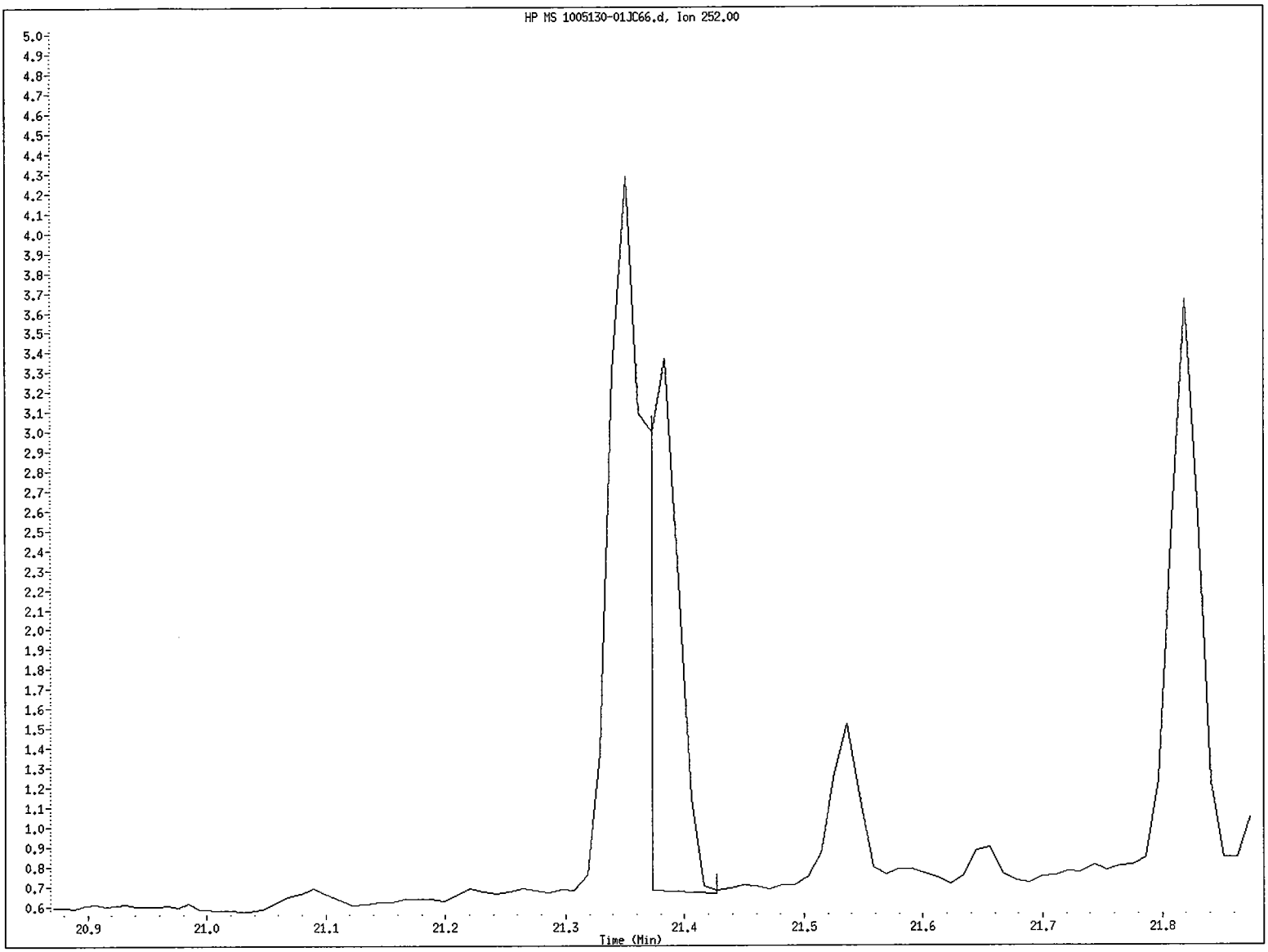


Benzo(b)fluoranthene CAS Number 205-99-2 Area = 7751 Manually integrated



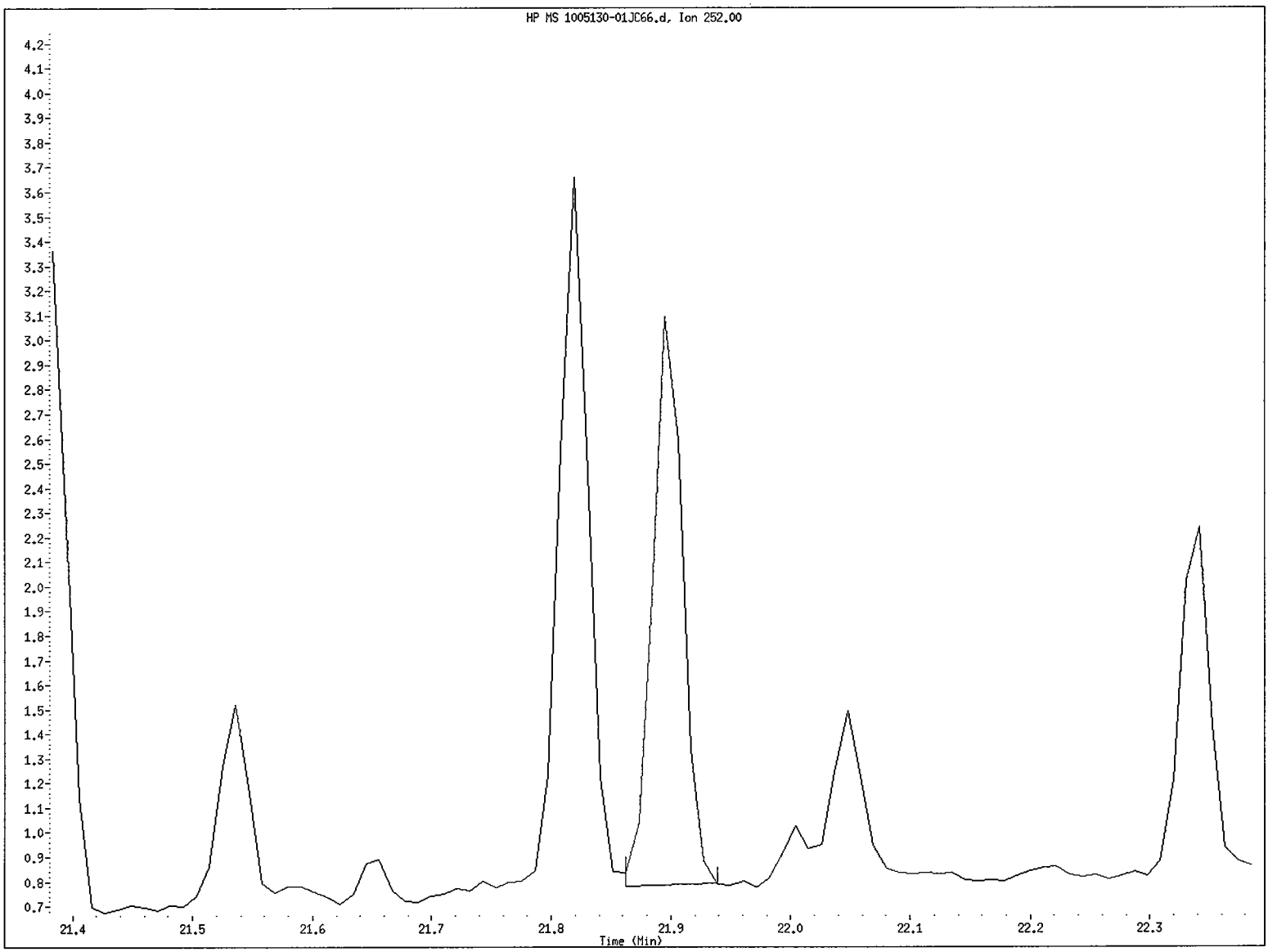
File name: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Client ID: SS23-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 00:25
Retention Time: 21.35
Operator ID: 2743

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 4690 Manually integrated



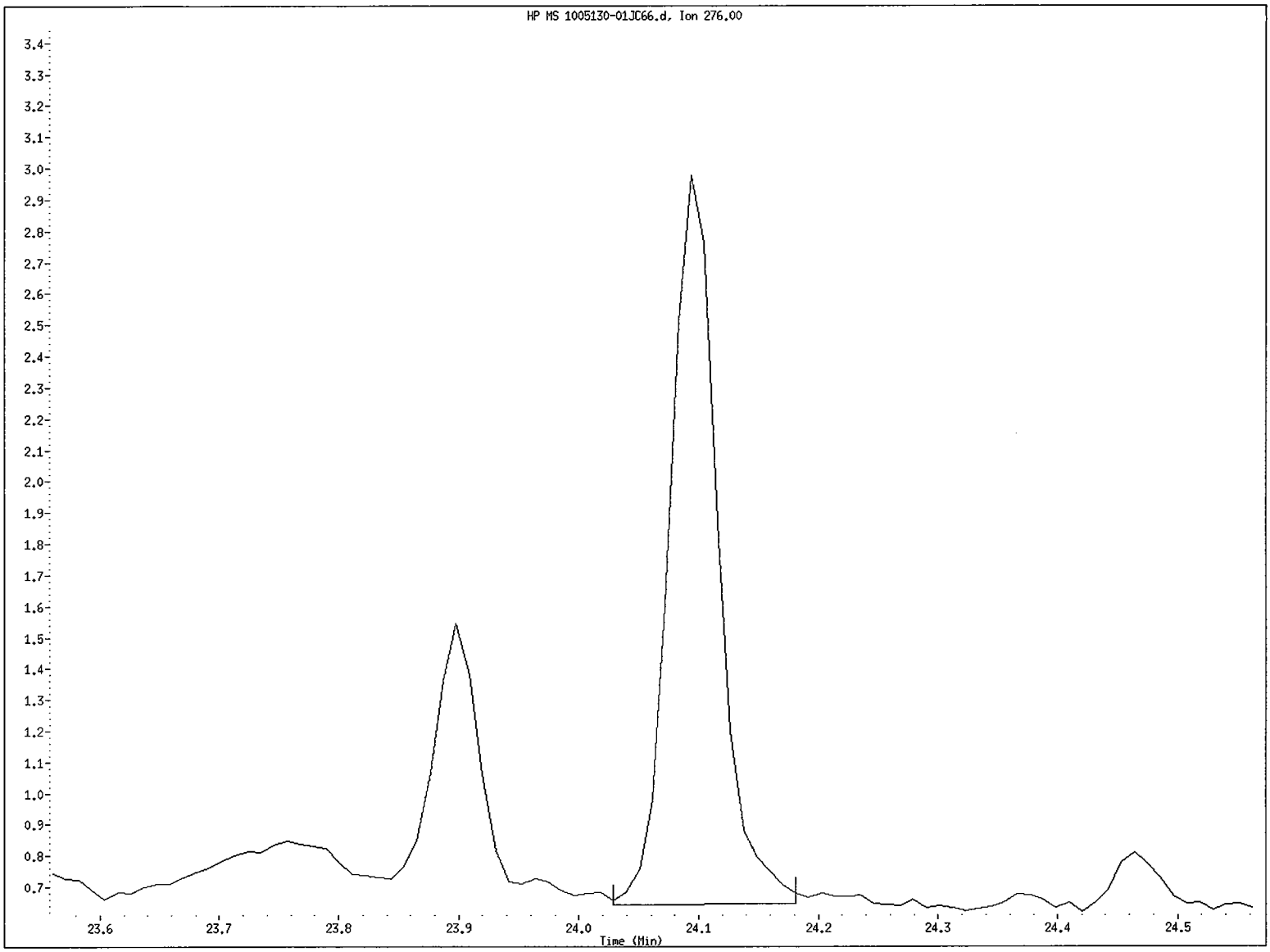
File name: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Client ID: SS23-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 00:25
Retention Time: 21.38
Operator ID: 2743

Benzo(a)pyrene CAS Number 50-32-8 Area = 4060 Manually integrated



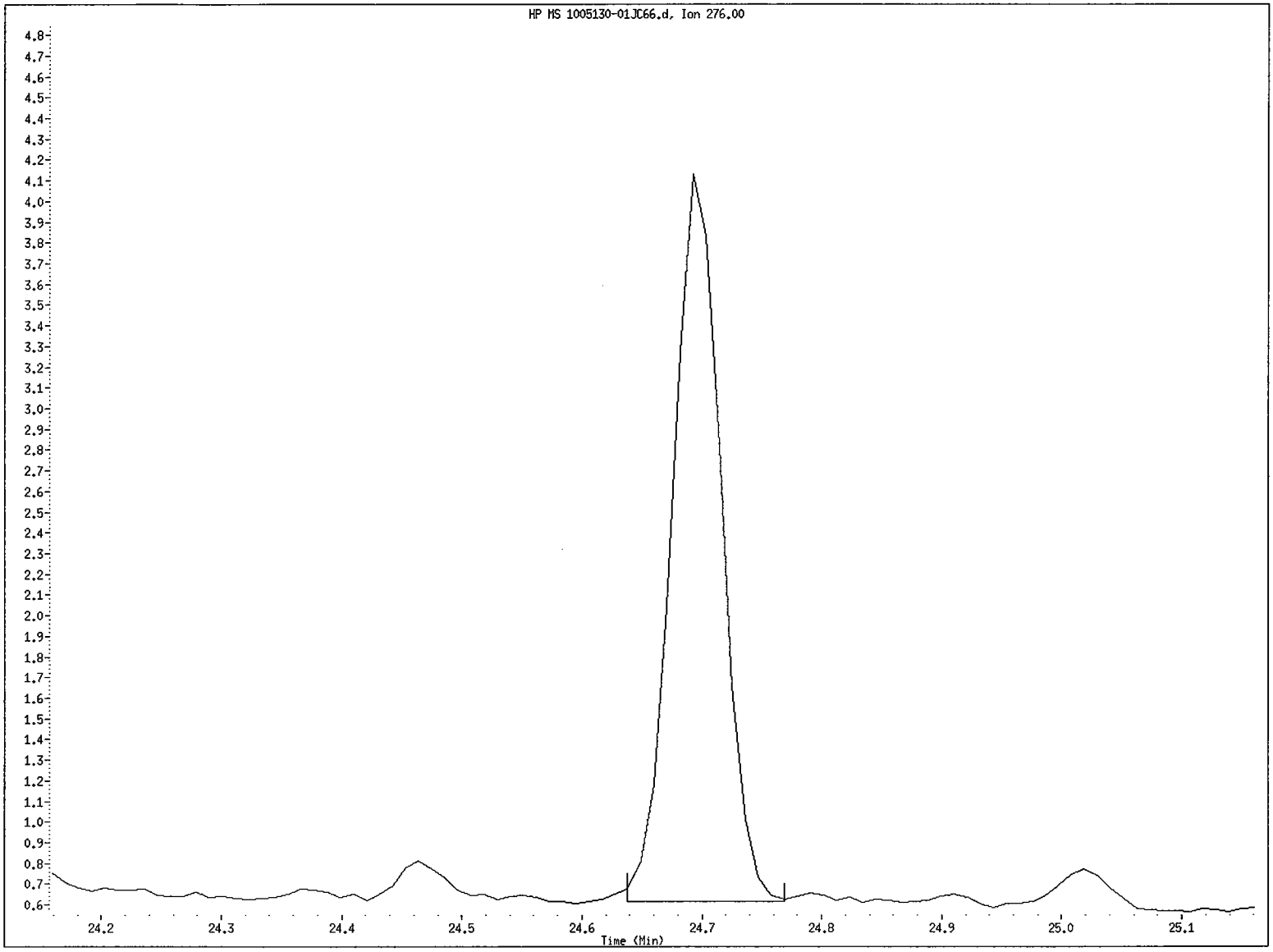
File name: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Client ID: SS23-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 00:25
Retention Time: 21.90
Operator ID: 2743

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 6635 Manually integrated



File name: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Client ID: SS23-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 00:25
Retention Time: 24.09
Operator ID: 2743

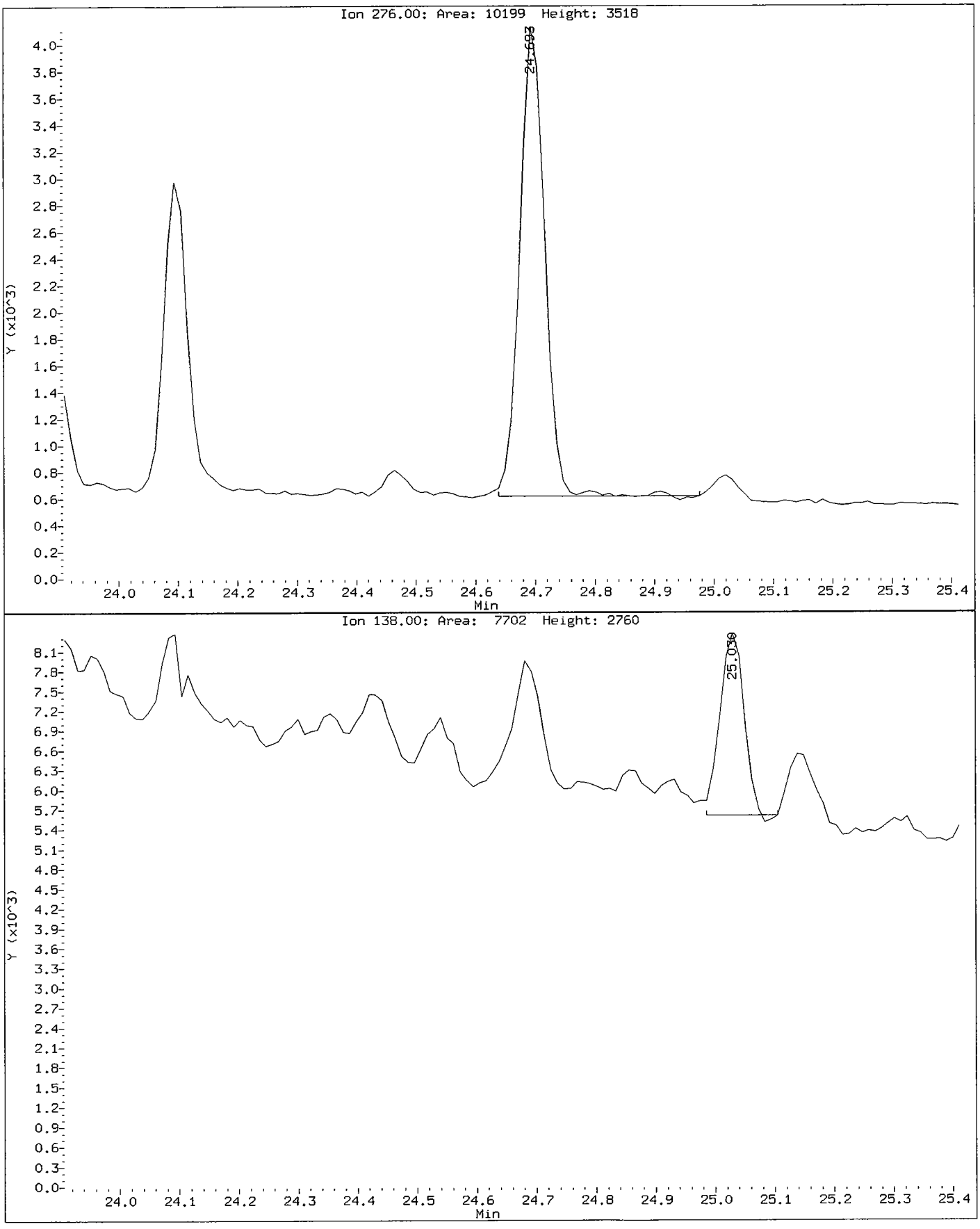
Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 10084 Manually integrated



File name: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Client ID: SS23-00-01
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 00:25
Retention Time: 24.69
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d
Injection Date: 01-JUN-2010 00:25
Instrument: 5972hp66.i
Client Sample ID: SS23-00-01

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

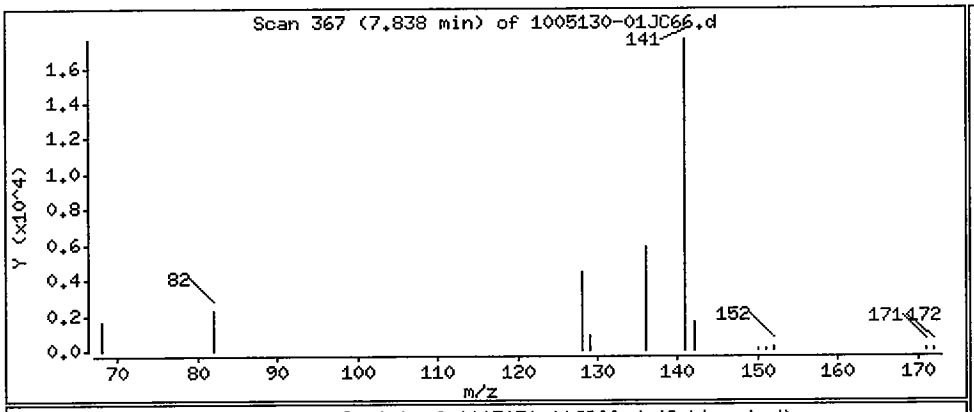
Client ID: SS23-00-01 Instrument: 5972hp66.i

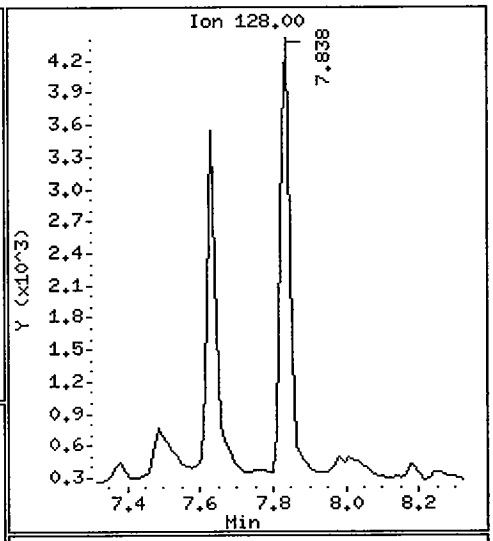
Sample Info: 1005130-01:2743

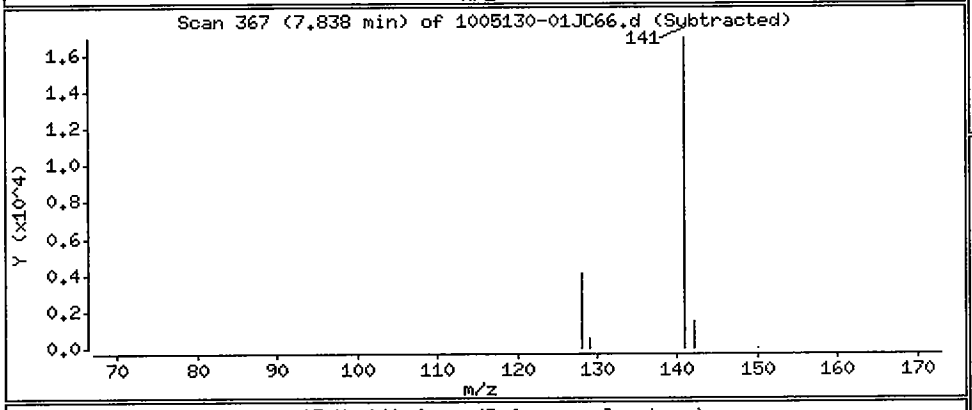
Volume Injected (uL): 2.0 Operator: 2743

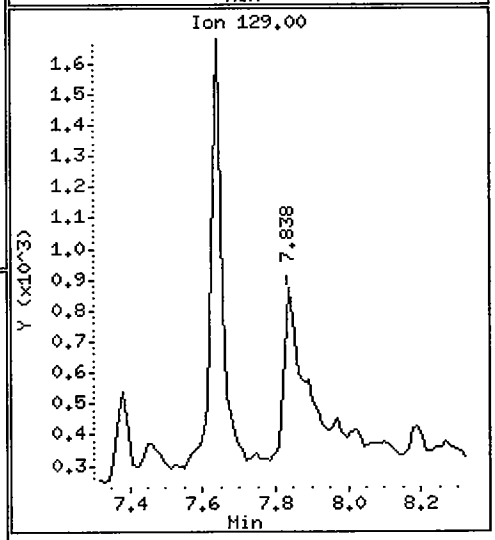
Column phase: Rtx-5MS Column diameter: 0.32

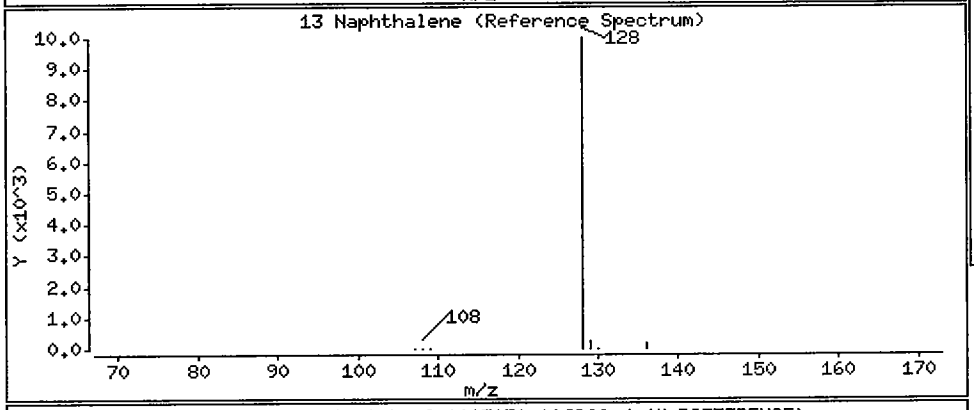
13 Naphthalene Concentration: 0.89 ug/Kg

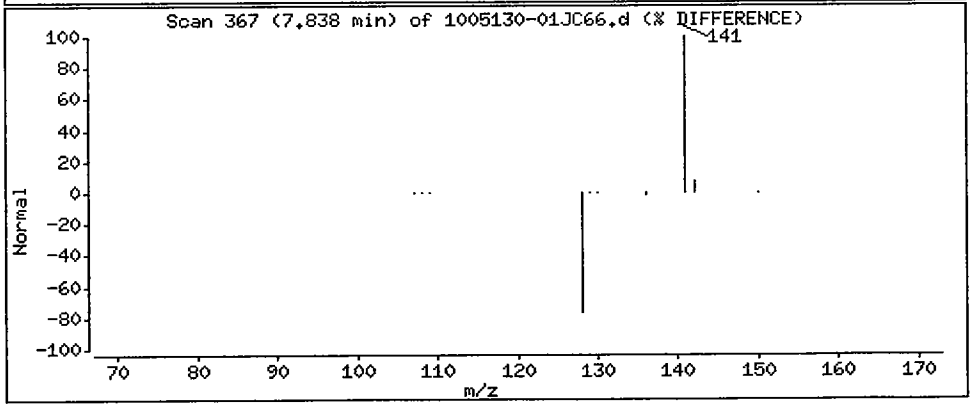












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

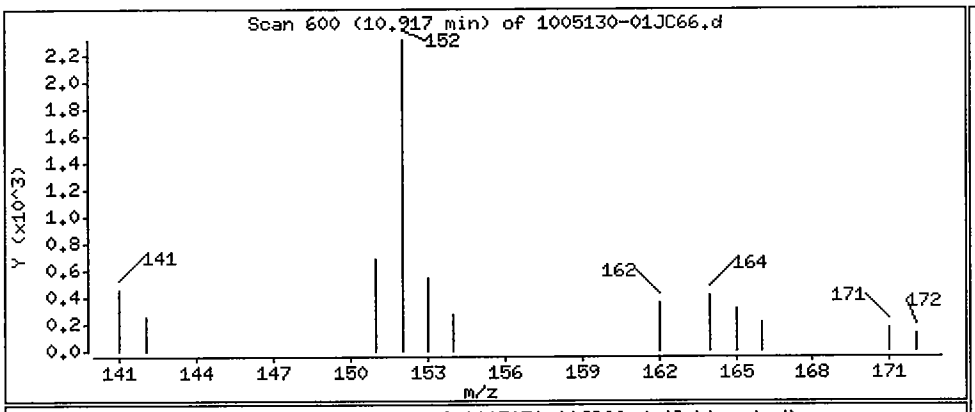
Client ID: SS23-00-01 Instrument: 5972hp66.i

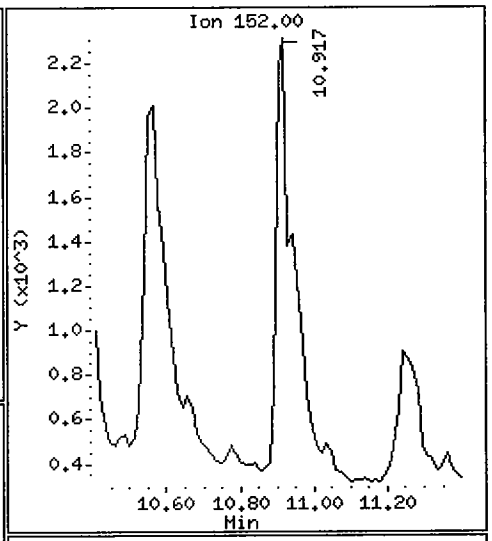
Sample Info: 1005130-01:2743

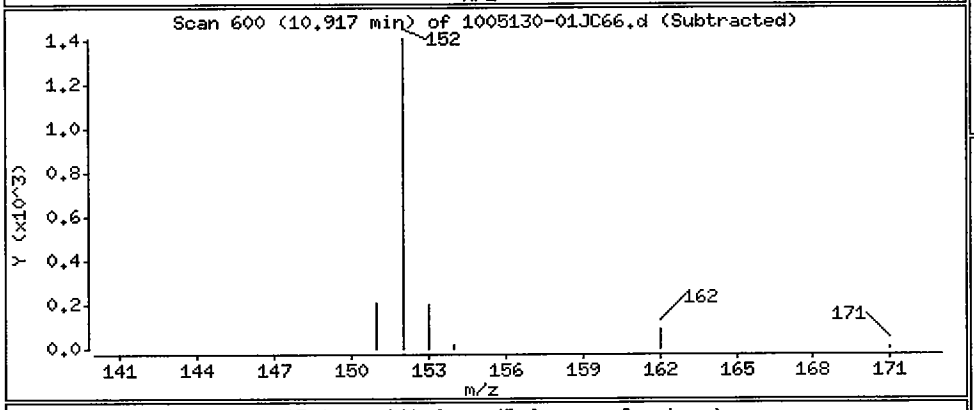
Volume Injected (uL): 2.0 Operator: 2743

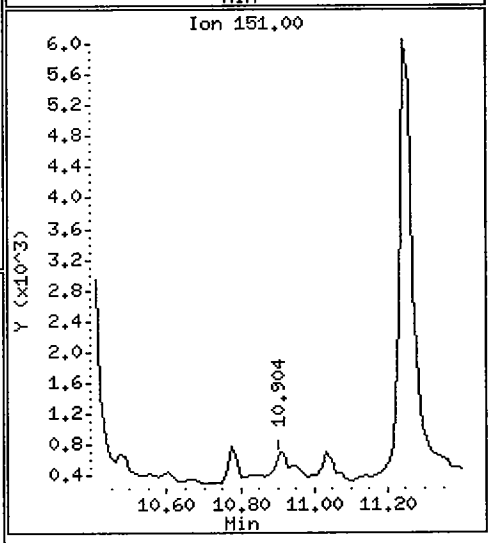
Column phase: Rtx-5MS Column diameter: 0.32

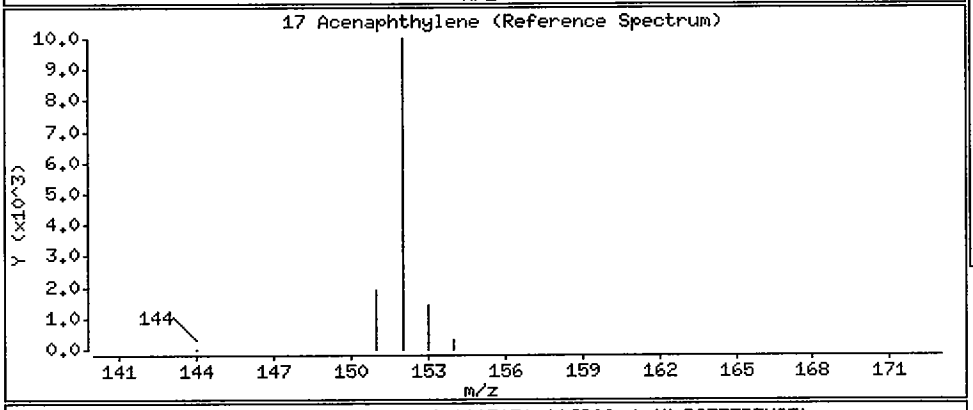
17 Acenaphthylene Concentration: 0.60 ug/Kg

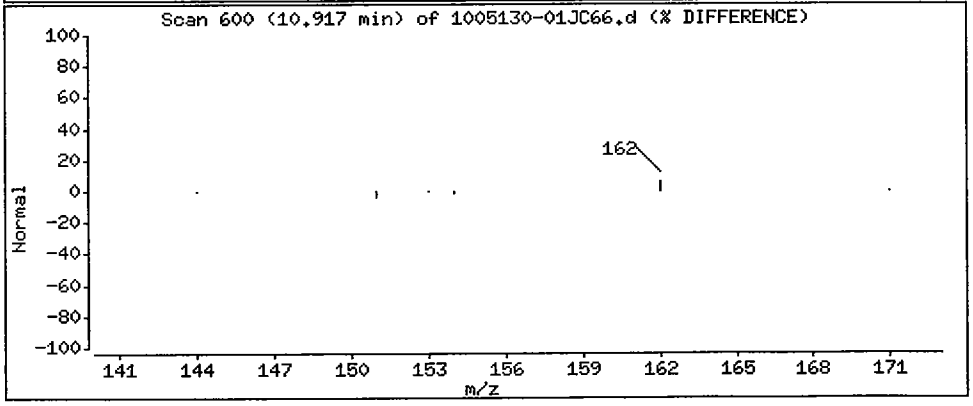












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

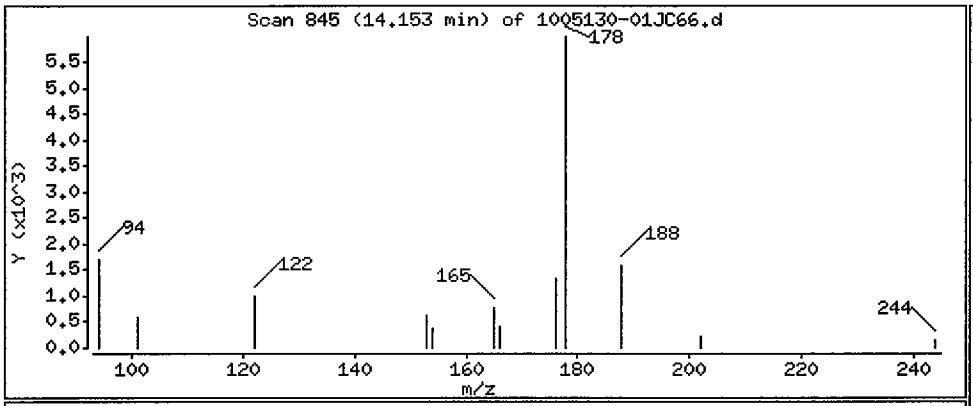
Client ID: SS23-00-01 Instrument: 5972hp66.i

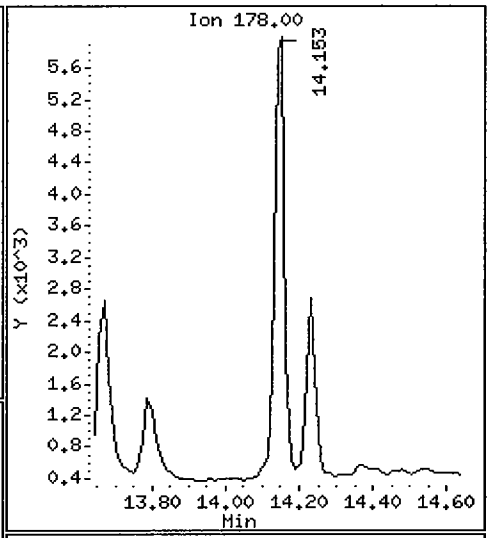
Sample Info: 1005130-01:2743

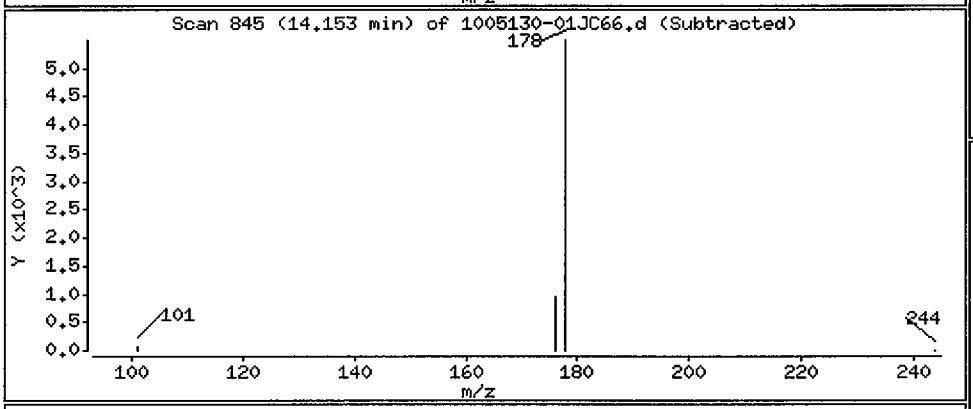
Volume Injected (uL): 2.0 Operator: 2743

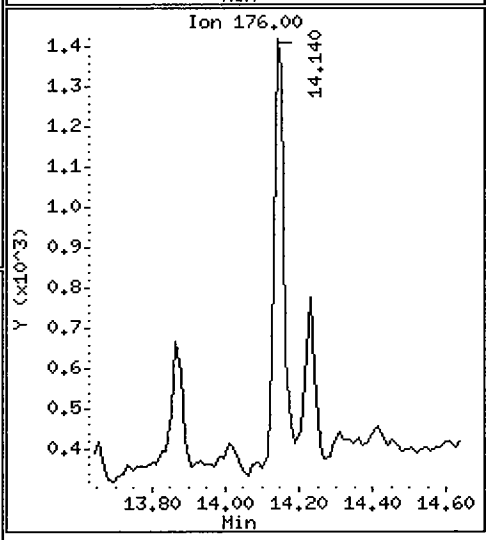
Column phase: Rtx-5MS Column diameter: 0.32

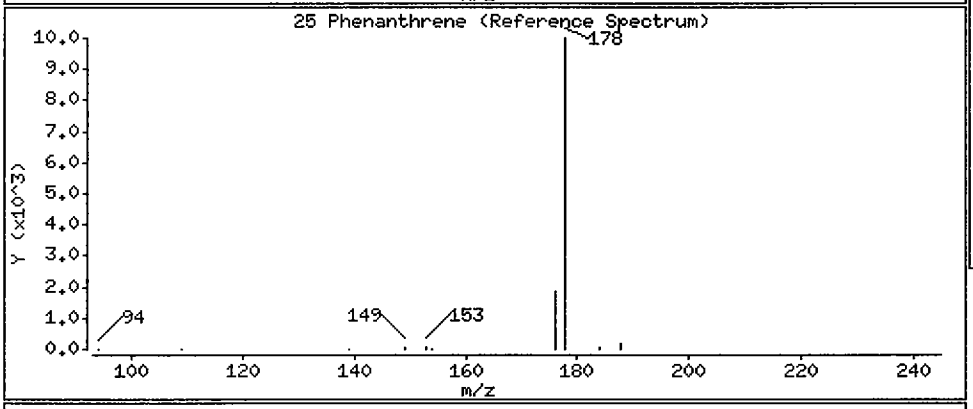
25 Phenanthrene Concentration: 1.5 ug/Kg

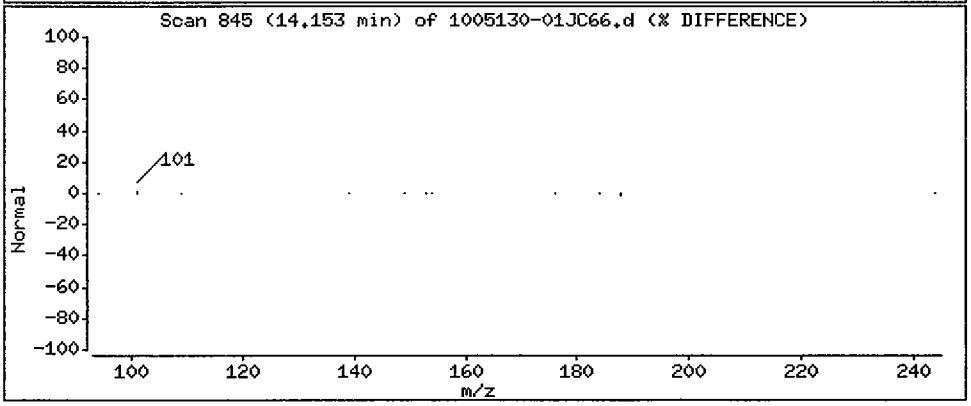












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

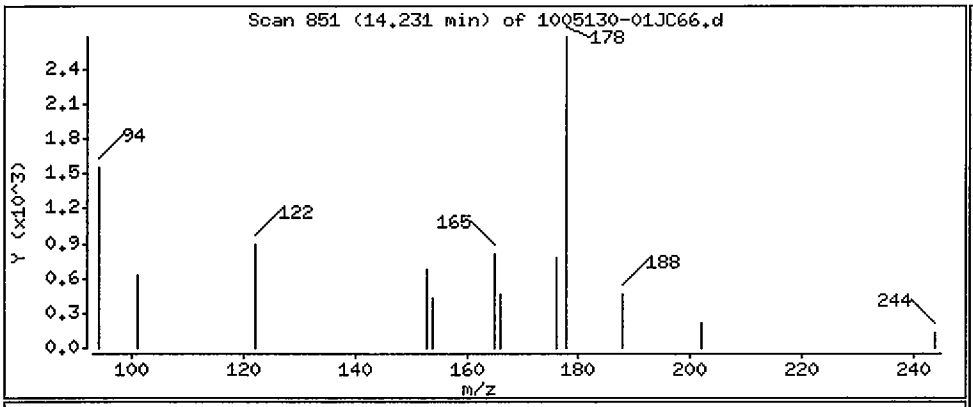
Client ID: SS23-00-01 Instrument: 5972hp66.i

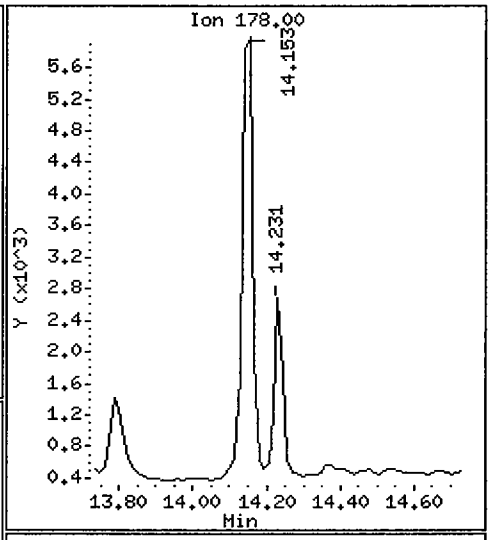
Sample Info: 1005130-01:2743

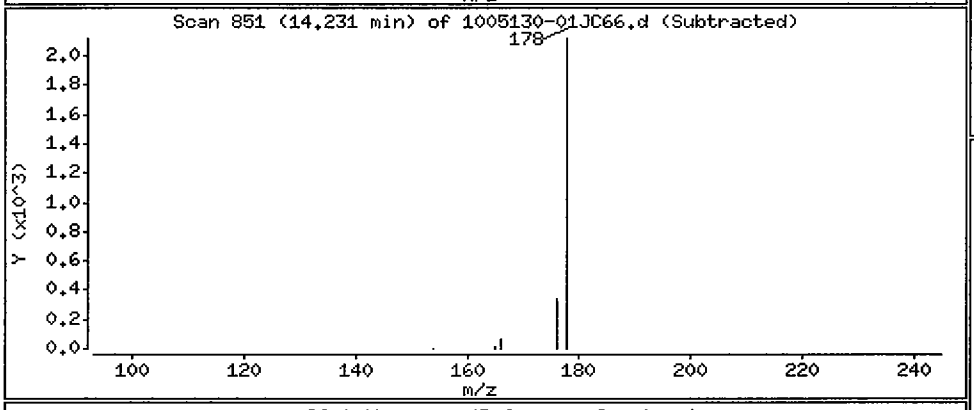
Volume Injected (uL): 2.0 Operator: 2743

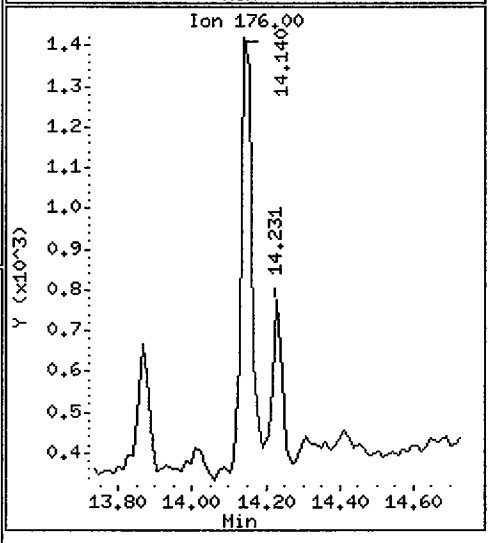
Column phase: Rtx-5MS Column diameter: 0.32

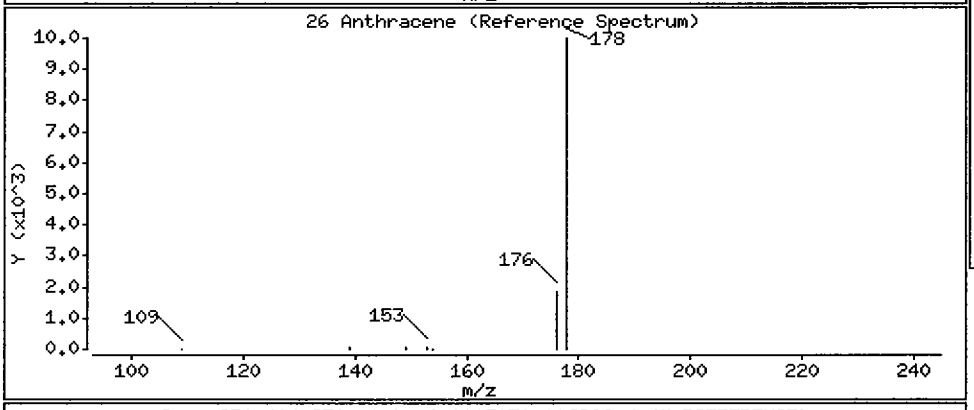
26 Anthracene Concentration: 0.55 ug/Kg

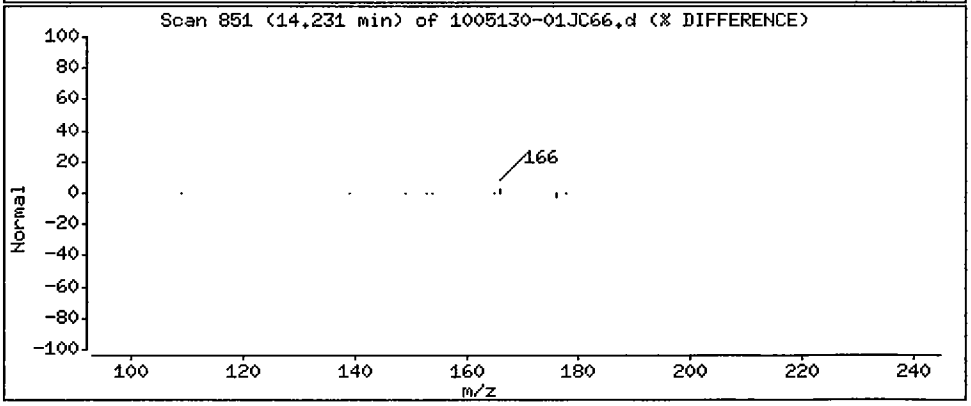












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

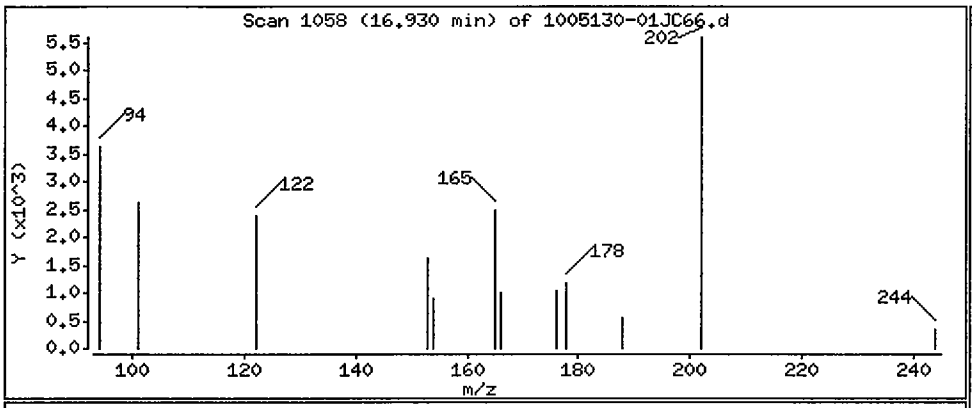
Client ID: SS23-00-01 Instrument: 5972hp66.i

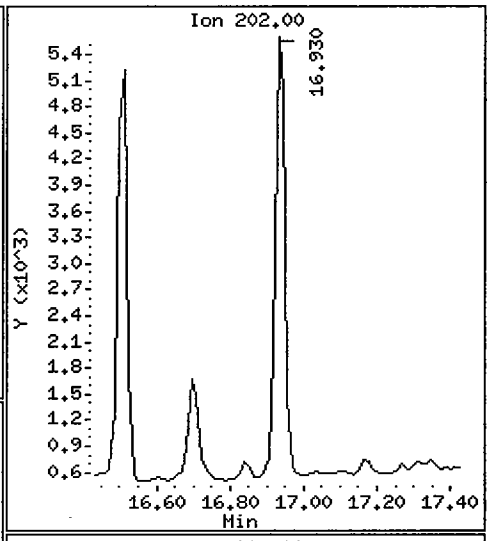
Sample Info: 1005130-01:2743

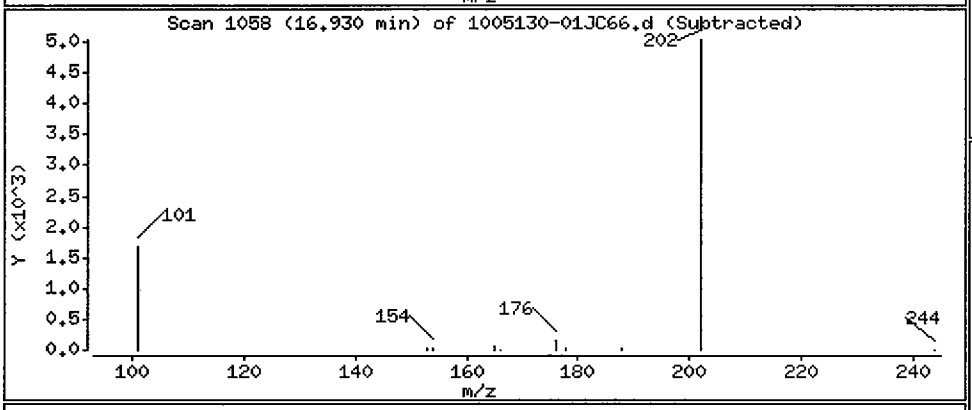
Volume Injected (uL): 2.0 Operator: 2743

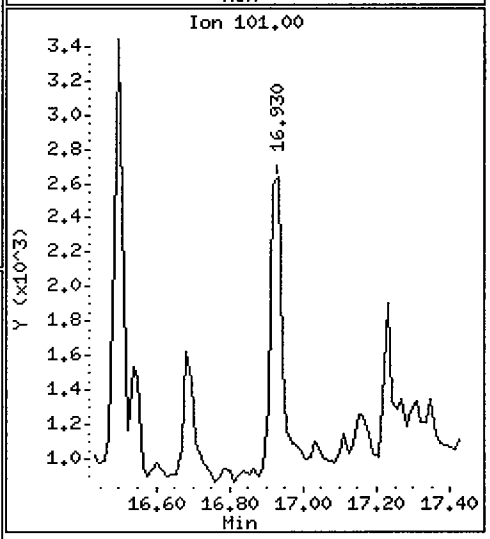
Column phase: Rtx-5MS Column diameter: 0.32

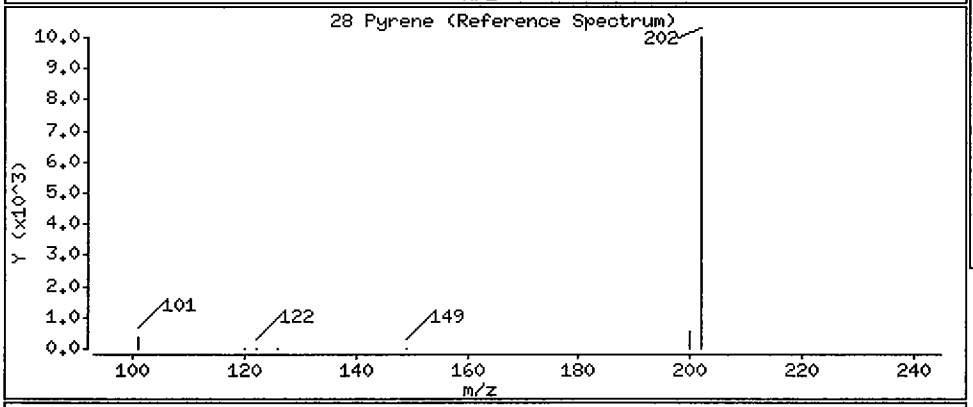
28 Pyrene Concentration: 1.5 ug/Kg

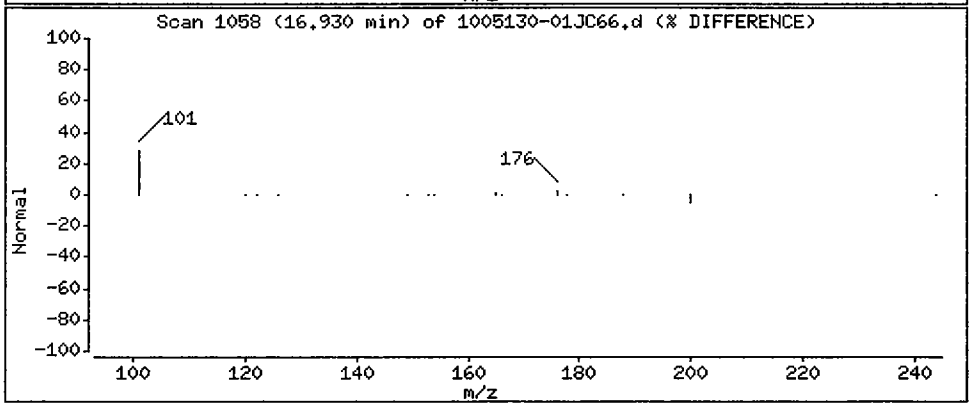












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

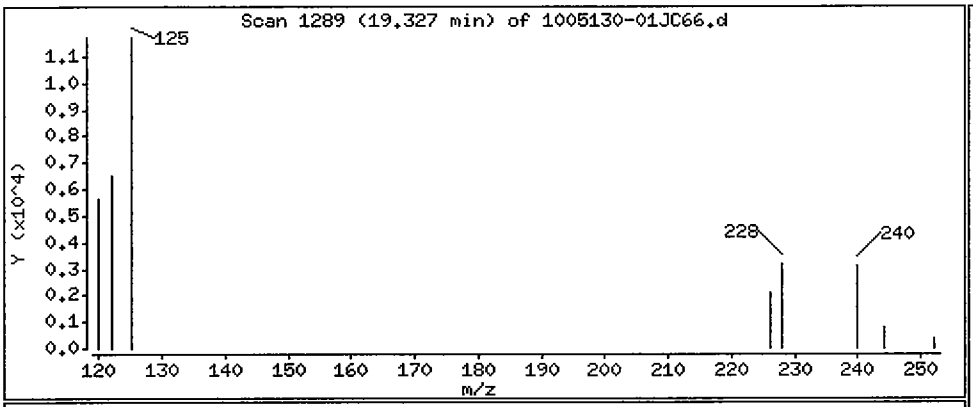
Client ID: SS23-00-01 Instrument: 5972hp66.i

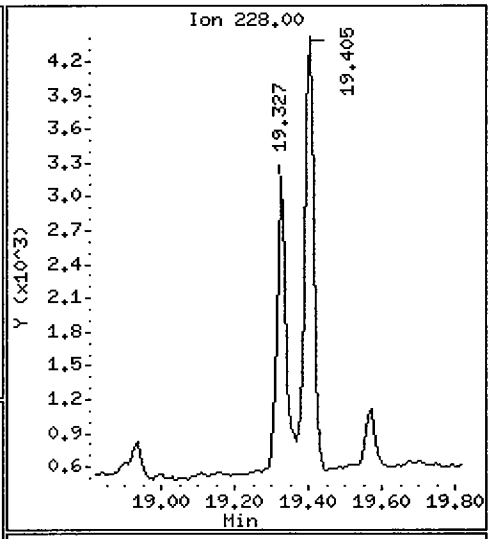
Sample Info: 1005130-01:2743

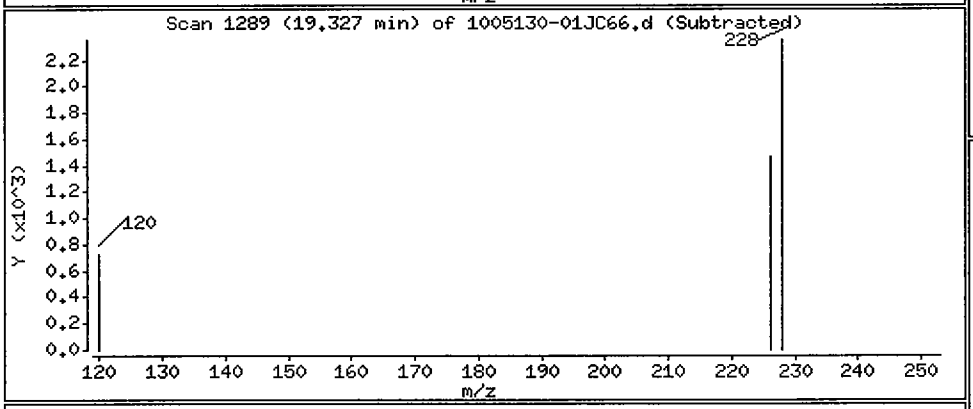
Volume Injected (uL): 2.0 Operator: 2743

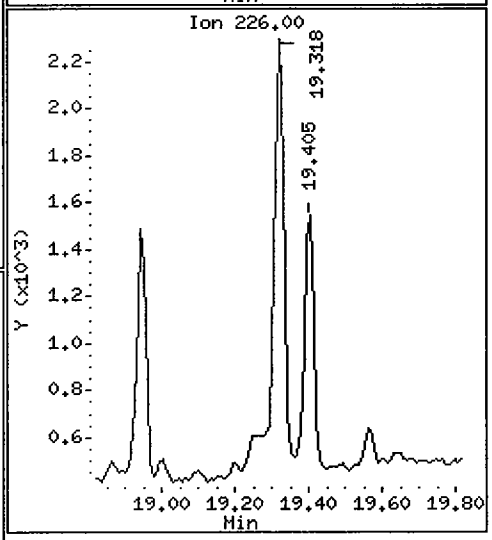
Column phase: Rtx-5MS Column diameter: 0.32

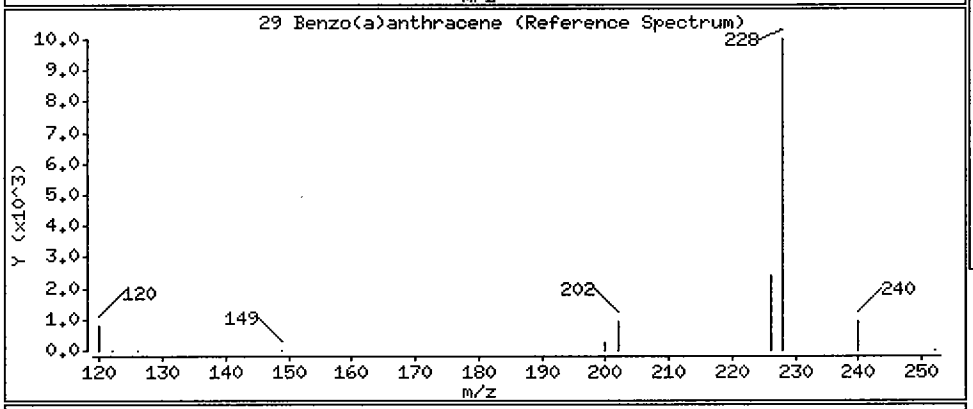
29 Benzo(a)anthracene Concentration: 0.92 ug/Kg

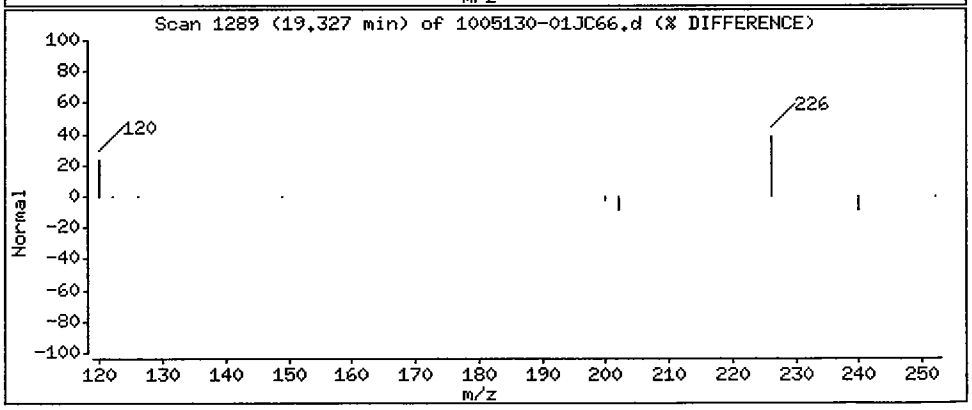












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

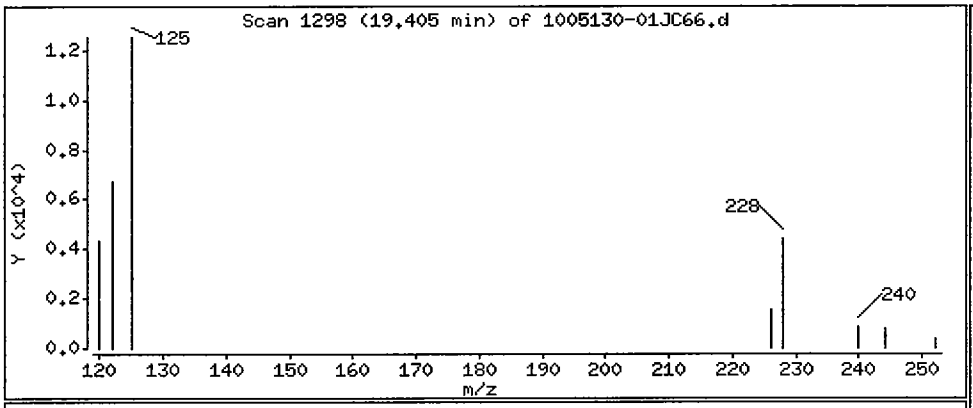
Client ID: SS23-00-01 Instrument: 5972hp66.i

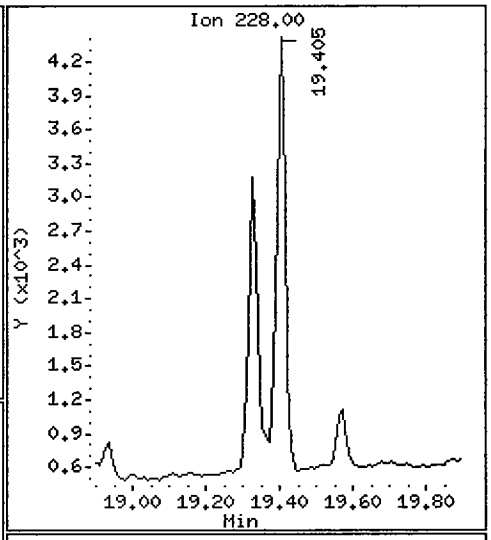
Sample Info: 1005130-01:2743

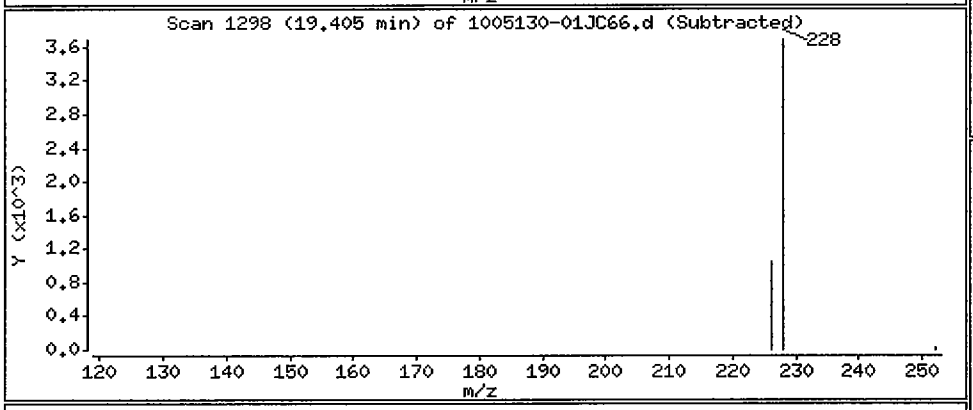
Volume Injected (uL): 2.0 Operator: 2743

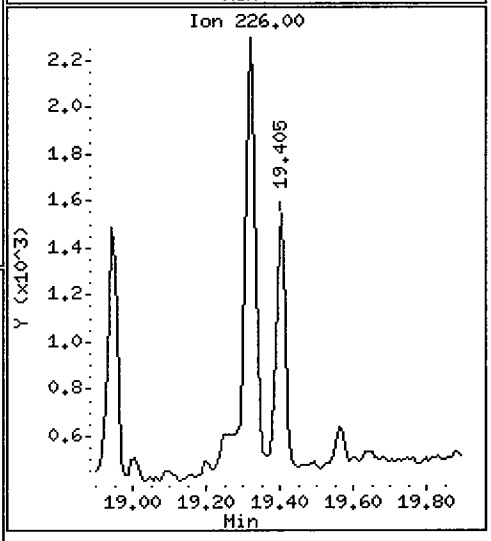
Column phase: Rtx-5MS Column diameter: 0.32

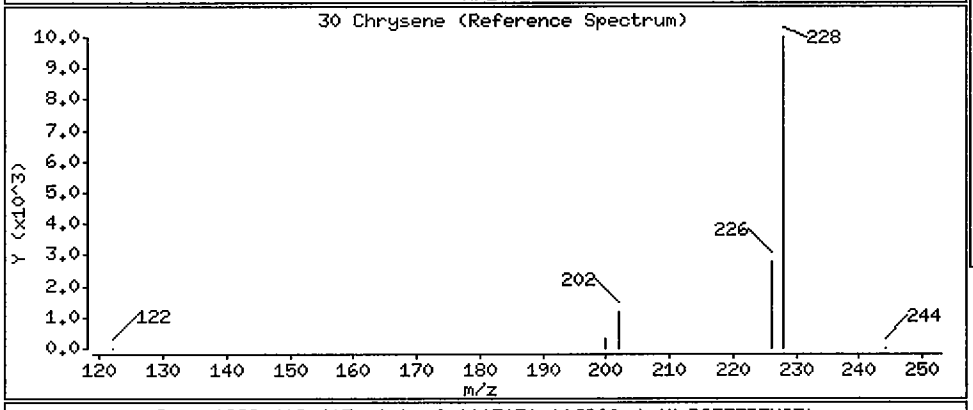
30 Chrysene Concentration: 1.2 ug/Kg

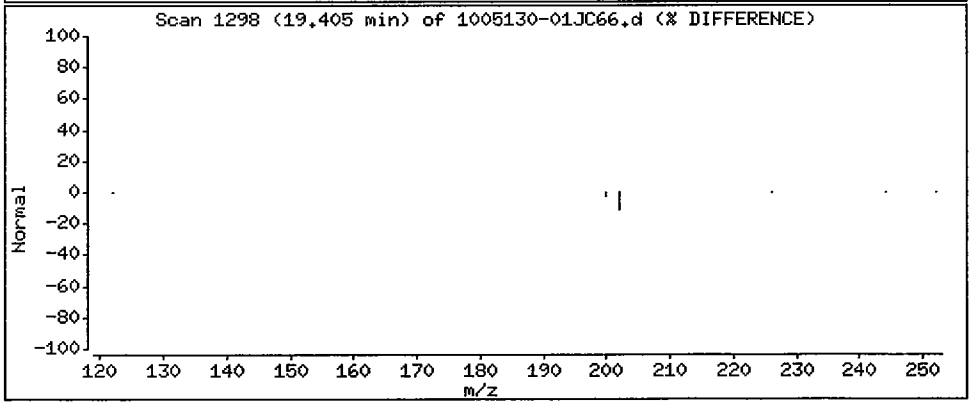












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

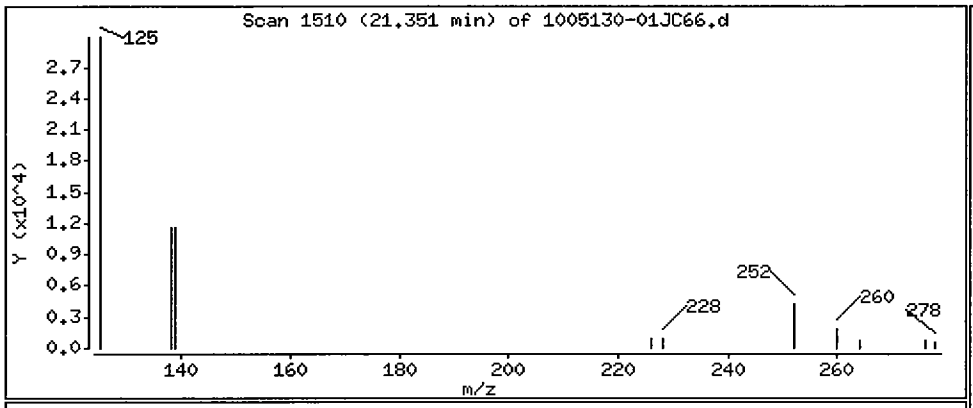
Client ID: SS23-00-01 Instrument: 5972hp66.i

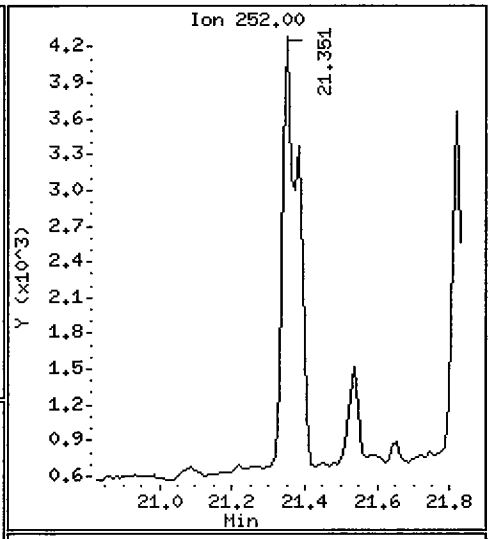
Sample Info: 1005130-01:2743

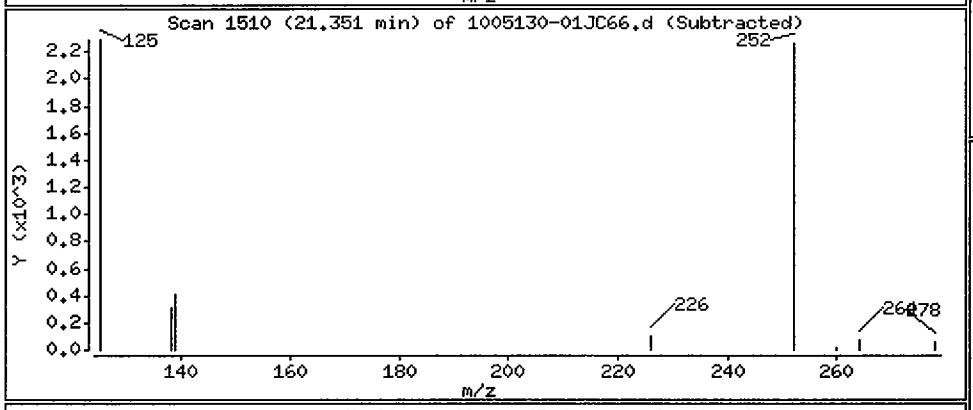
Volume Injected (uL): 2.0 Operator: 2743

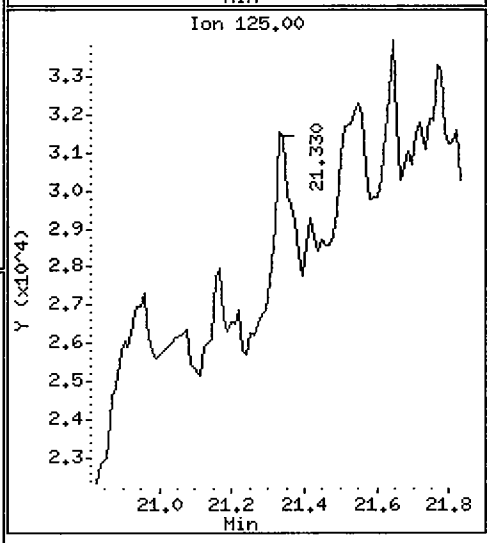
Column phase: Rtx-5MS Column diameter: 0.32

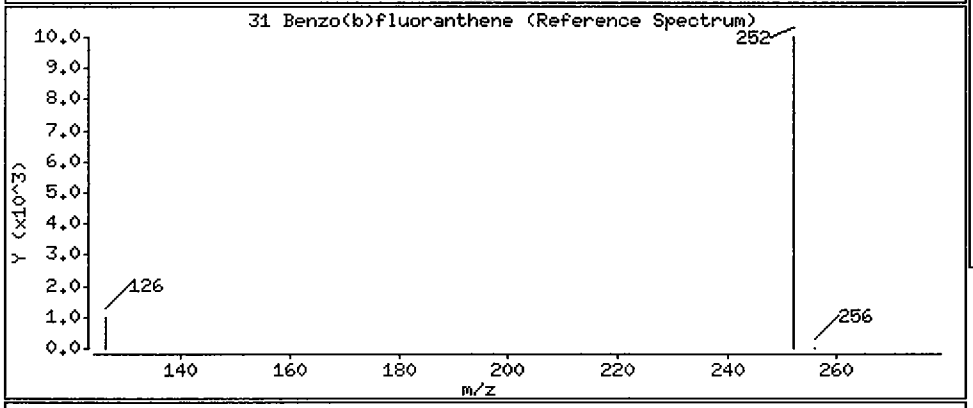
31 Benzo(b)fluoranthene Concentration: 1.8 ug/Kg

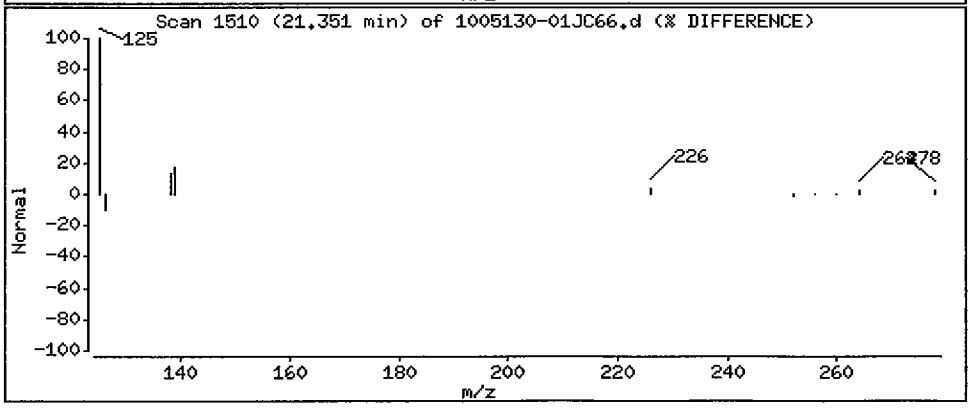












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

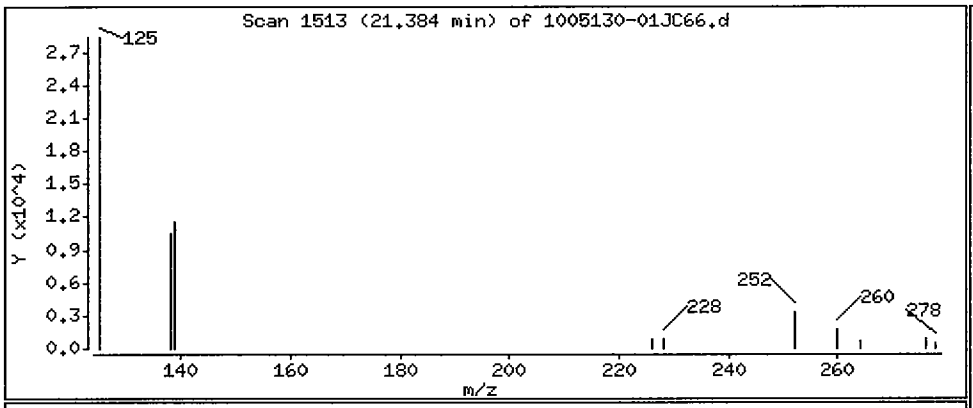
Client ID: SS23-00-01 Instrument: 5972hp66.i

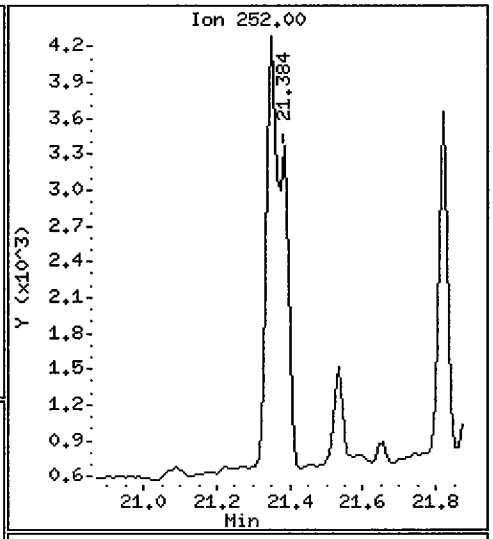
Sample Info: 1005130-01:2743

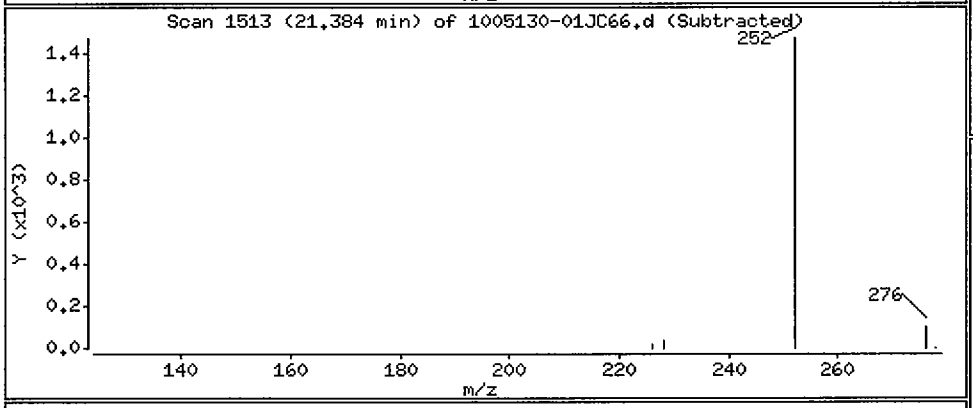
Volume Injected (uL): 2.0 Operator: 2743

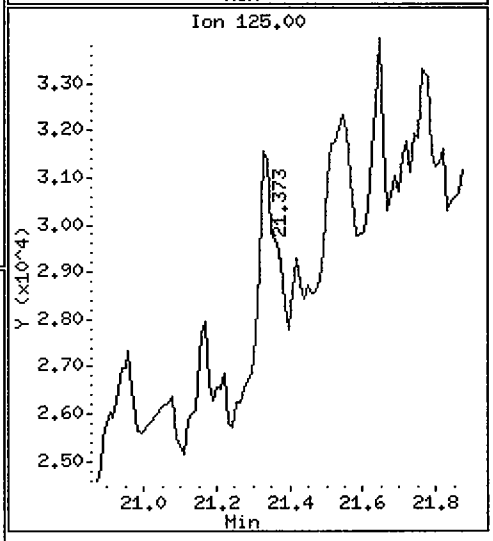
Column phase: Rtx-5MS Column diameter: 0.32

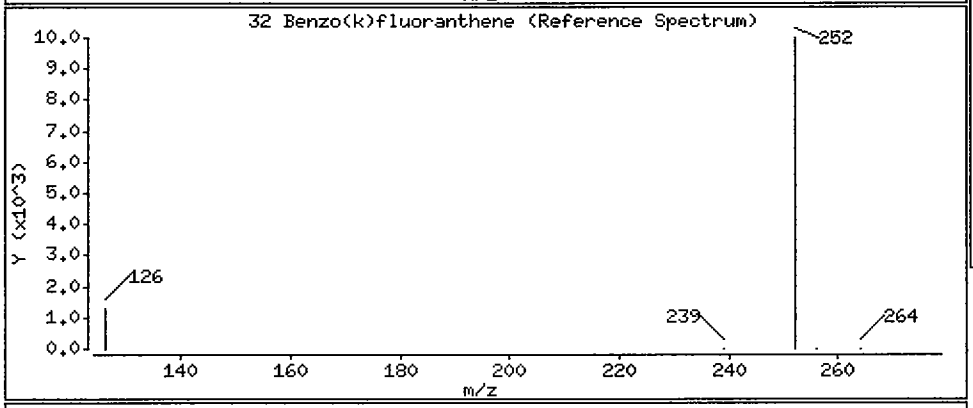
32 Benzo(k)fluoranthene Concentration: 0.99 ug/Kg

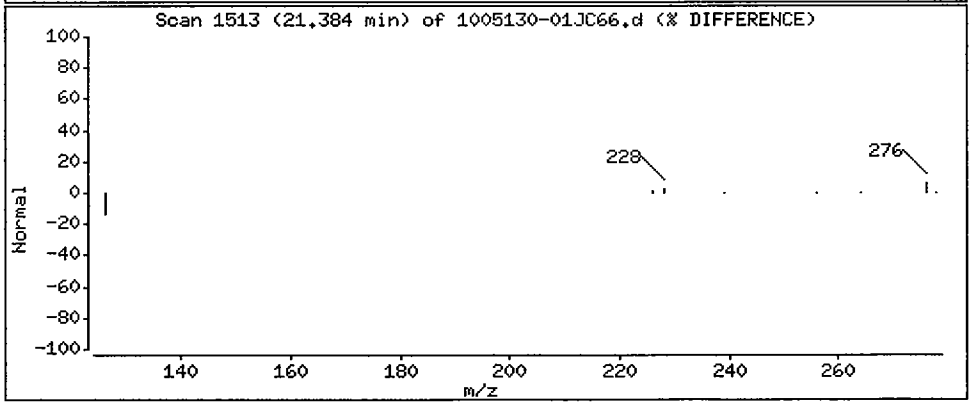












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

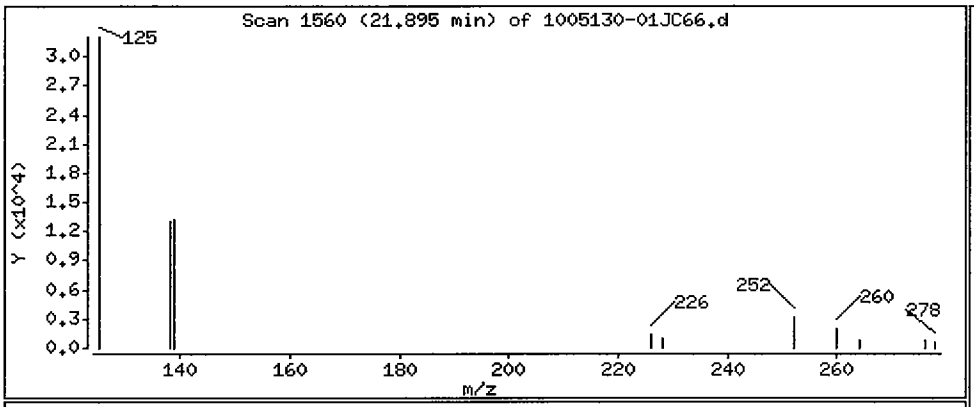
Client ID: SS23-00-01 Instrument: 5972hp66.i

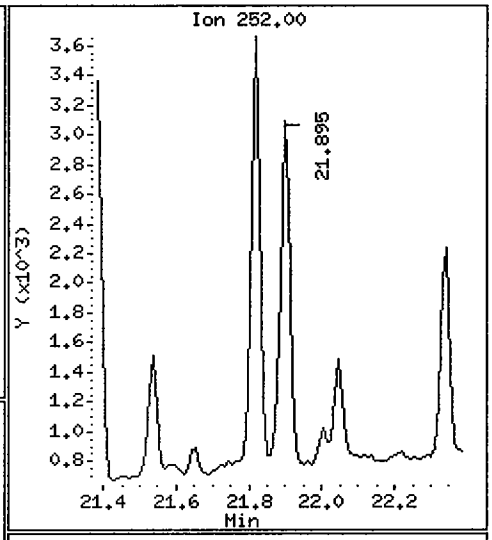
Sample Info: 1005130-01:2743

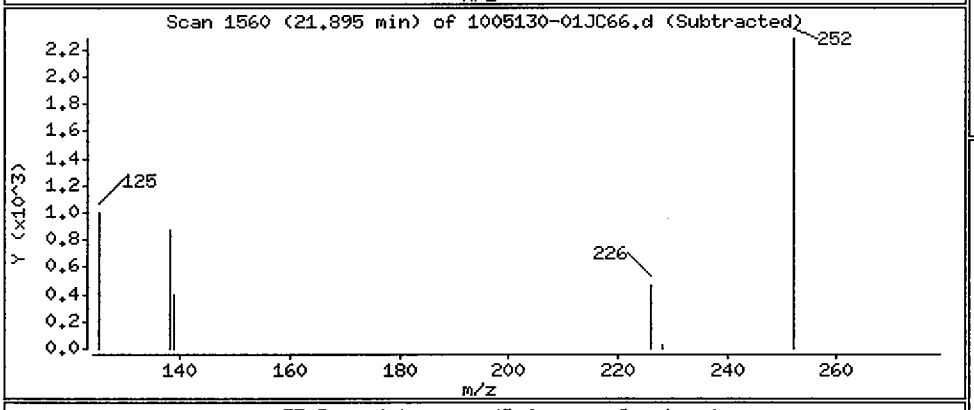
Volume Injected (uL): 2.0 Operator: 2743

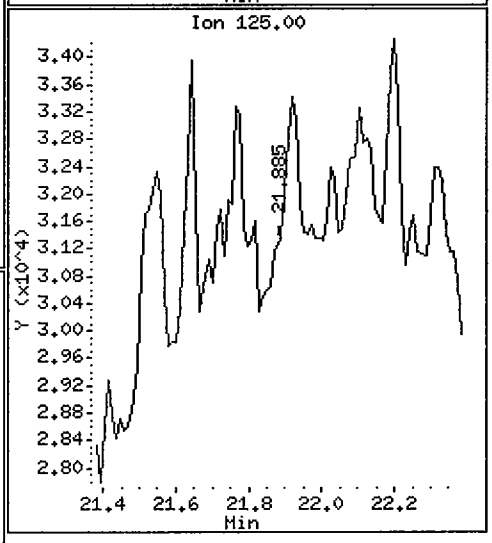
Column phase: Rtx-5MS Column diameter: 0.32

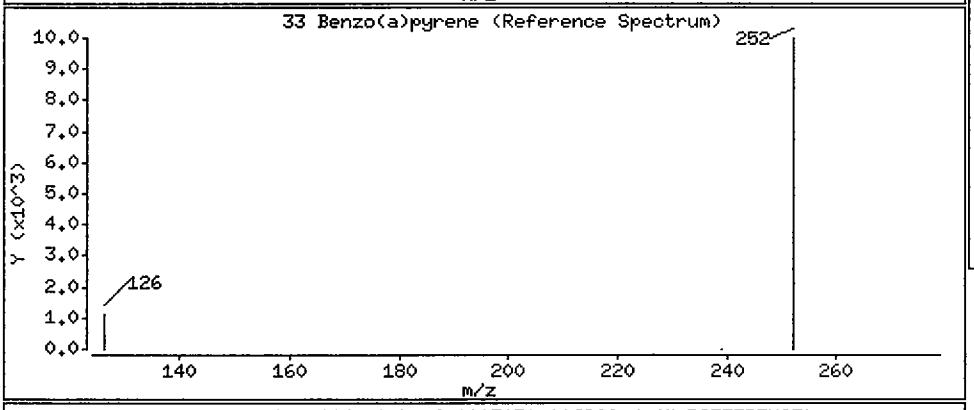
33 Benzo(a)pyrene Concentration: 1.0 ug/Kg

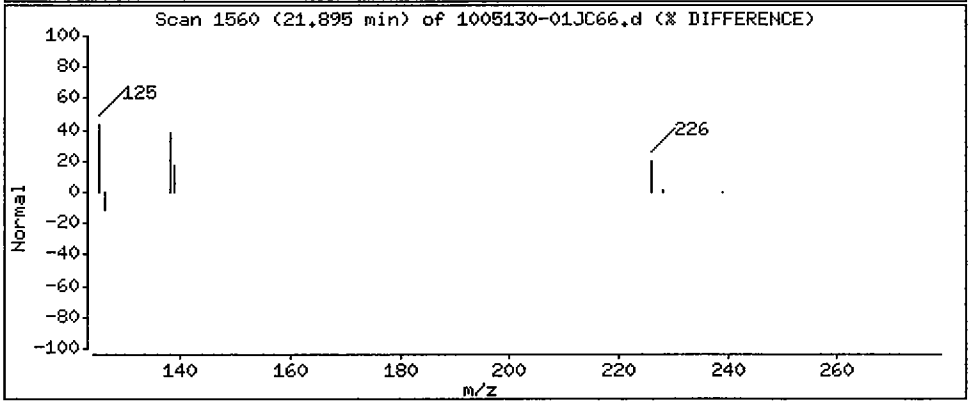












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

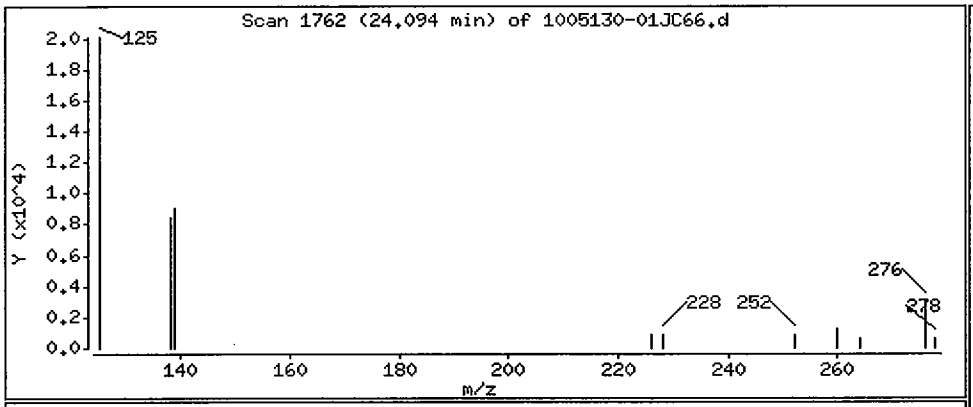
Client ID: SS23-00-01 Instrument: 5972hp66.i

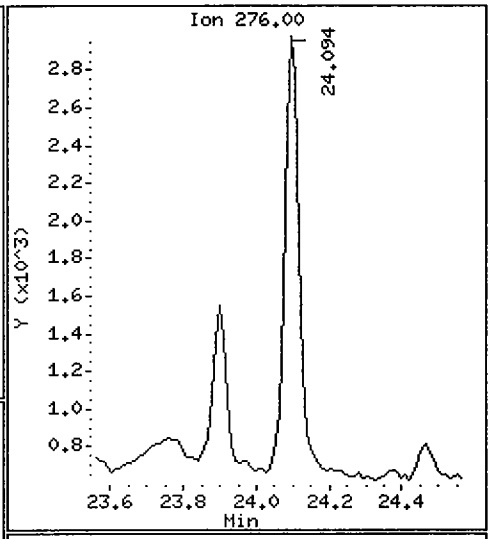
Sample Info: 1005130-01:2743

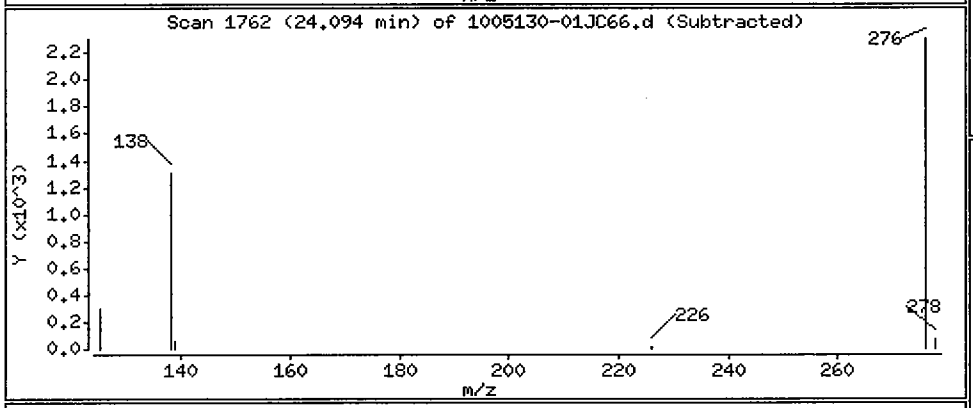
Volume Injected (uL): 2.0 Operator: 2743

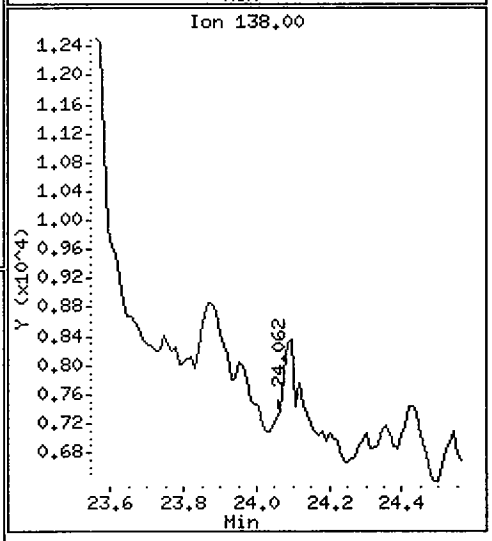
Column phase: Rtx-5MS Column diameter: 0.32

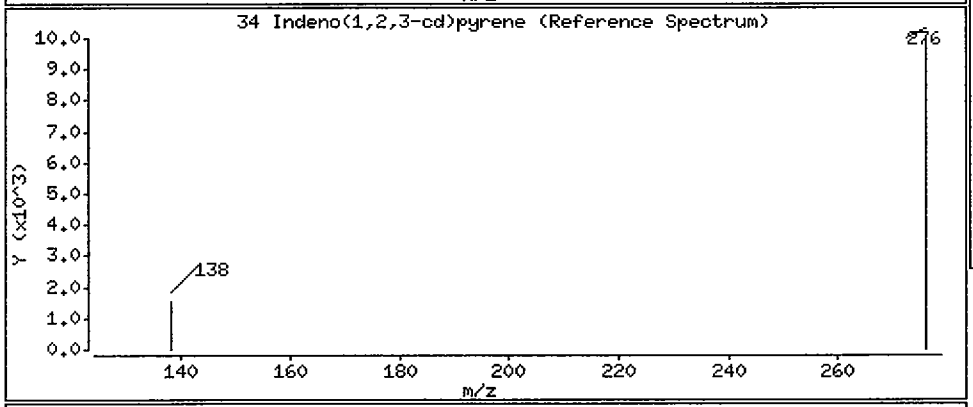
34 Indeno(1,2,3-cd)pyrene Concentration: 1.9 ug/Kg

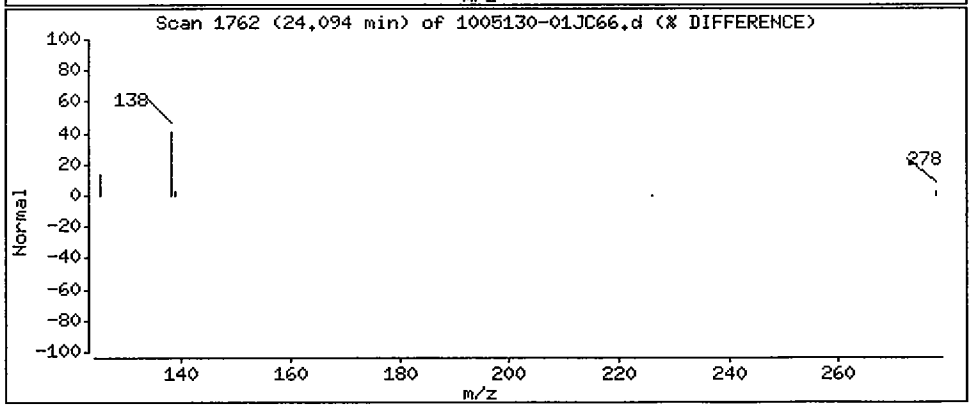












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-01JC66.d

Date : 01-JUN-2010 00:25

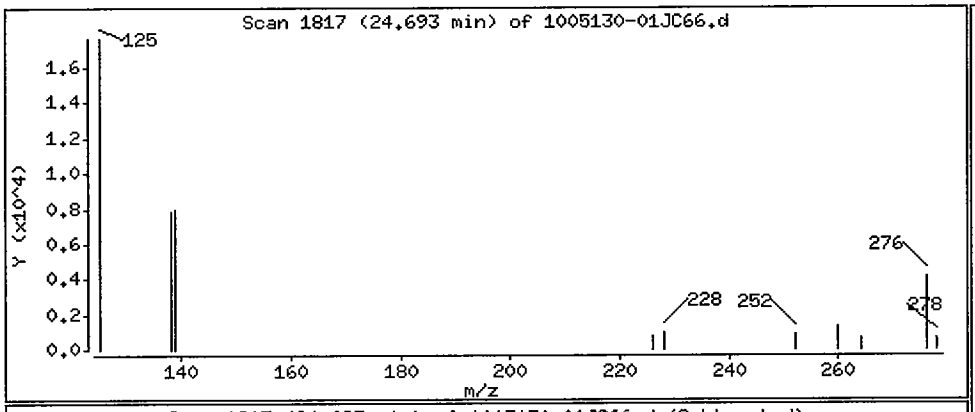
Client ID: SS23-00-01 Instrument: 5972hp66.i

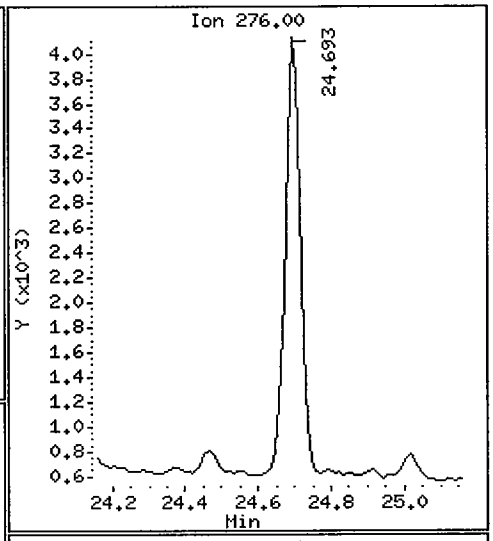
Sample Info: 1005130-01:2743

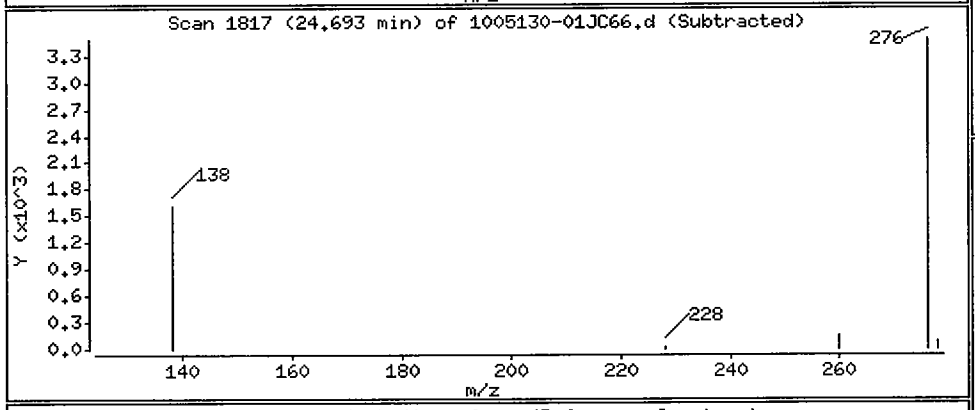
Volume Injected (uL): 2.0 Operator: 2743

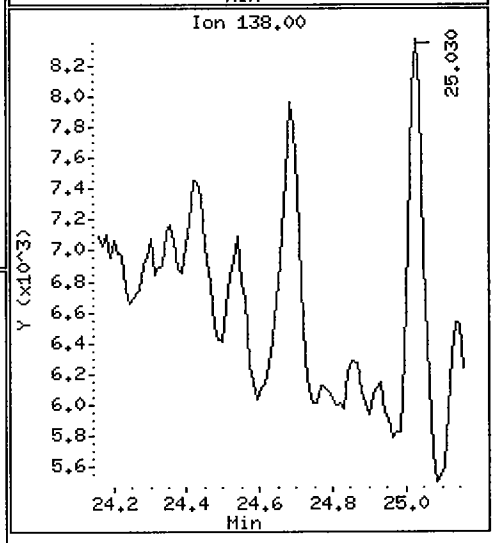
Column phase: Rtx-5MS Column diameter: 0.32

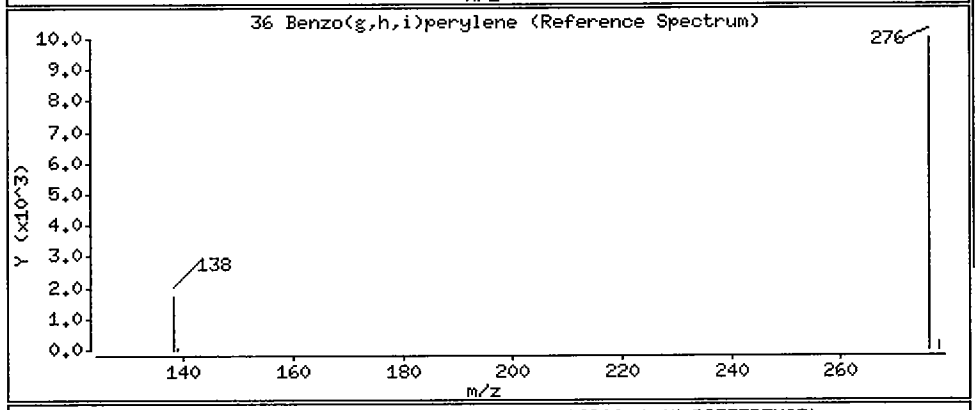
36 Benzo(g,h,i)perylene Concentration: 2.6 ug/Kg

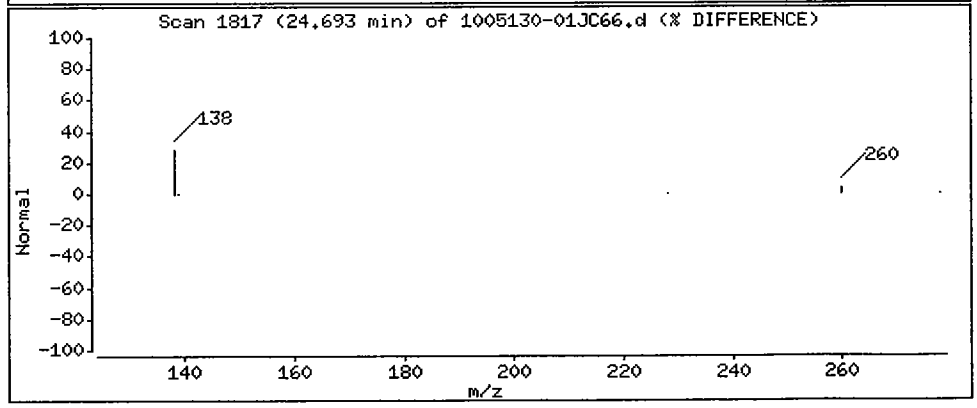












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS24-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-03
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-03C66
Analyst: 2743

% Moisture: 11 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

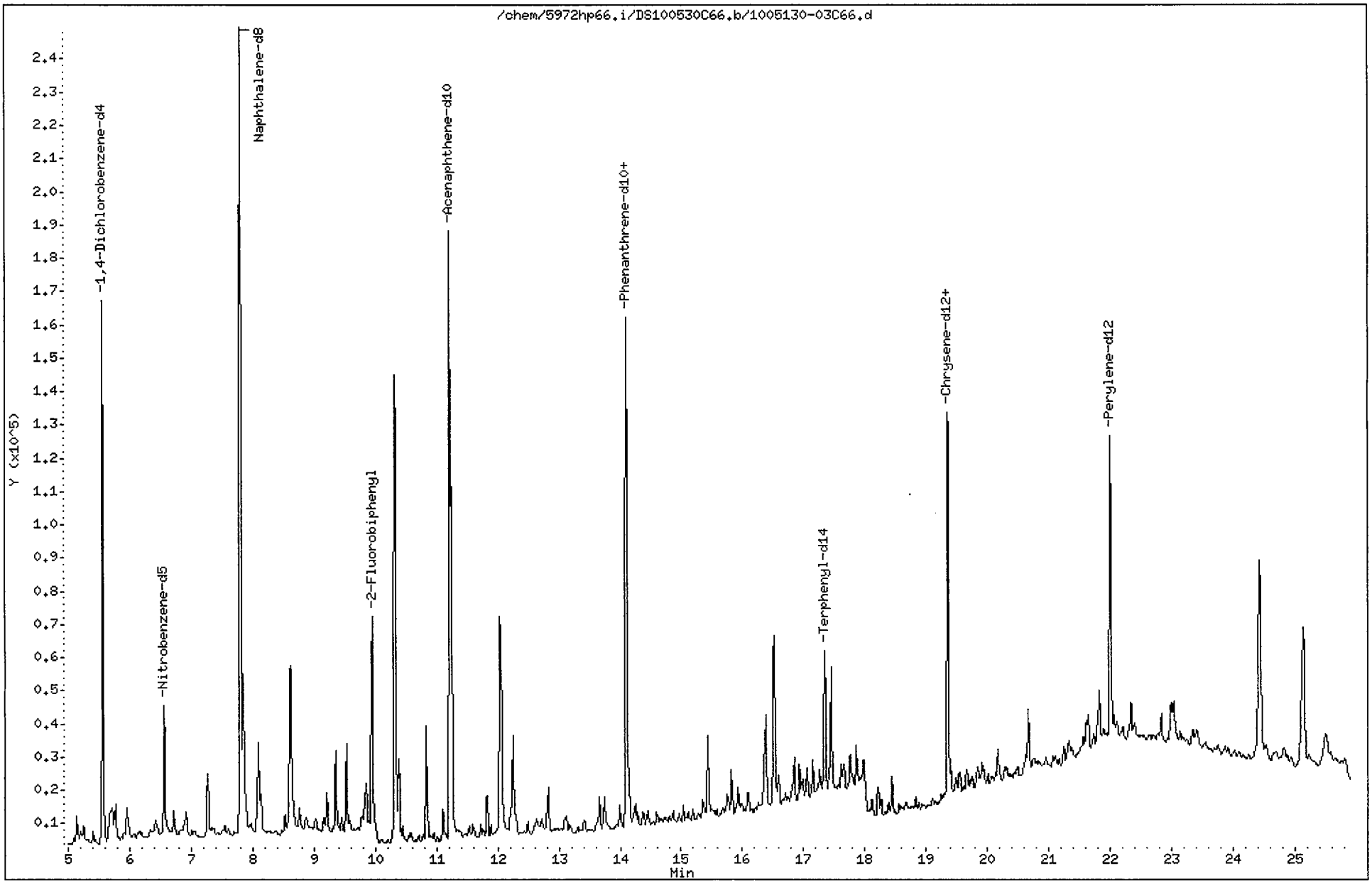
Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.81	9.3	ND	U
91-57-6	2-Methylnaphthalene	0.77	9.3	ND	U
208-96-8	Acenaphthylene	0.60	9.3	ND	U
83-32-9	Acenaphthene	0.67	9.3	ND	U
86-73-7	Fluorene	0.51	9.3	0.65	J
85-01-8	Phenanthrene	1.5	9.3	3.1	J
120-12-7	Anthracene	0.49	9.3	0.70	J
206-44-0	Fluoranthene	1.5	9.3	2.9	J
129-00-0	Pyrene	0.64	9.3	2.5	J
56-55-3	Benzo(a)anthracene	0.64	9.3	1.2	J
218-01-9	Chrysene	0.71	9.3	1.4	J
205-99-2	Benzo(b)fluoranthene	0.64	9.3	1.2	J
207-08-9	Benzo(k)fluoranthene	0.49	9.3	0.72	J
50-32-8	Benzo(a)pyrene	0.43	9.3	0.58	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	9.3	0.79	J
53-70-3	Dibenzo(a,h)anthracene	0.37	9.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.43	9.3	0.66	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Date : 31-MAY-2010 07:33
Client ID: SS24-0-1
Instrument: 5972hp66.i
Sample Info: 1005130-03;2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Report Date: 02-Jun-2010 11:56

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Lab Smp Id: 1005130-03 Client Smp ID: SS24-0-1
Inj Date : 31-MAY-2010 07:33
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-03:2743
Misc Info : SS24-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:55 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	11.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.560	5.543	(1.000)	95153	2.00000		(a)
*	2 Naphthalene-d8	136	7.802	7.785	(1.000)	330580	2.00000		(a)
*	3 Acenaphthene-d10	164	11.217	11.206	(1.000)	129357	2.00000		(a)
*	4 Phenanthrene-d10	188	14.101	14.087	(1.000)	210790	2.00000		(a)
*	5 Chrysene-d12	240	19.362	19.336	(1.000)	143969	2.00000		(a)
*	6 Perylene-d12	264	22.004	21.960	(1.000)	121404	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.564	6.547	(0.841)	45081	0.61284	11	
$	10 2-Fluorobiphenyl	172	9.953	9.936	(0.887)	69437	0.51440	9.6	
$	12 Terphenyl-d14	244	17.347	17.334	(0.896)	49024	0.93718	18	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

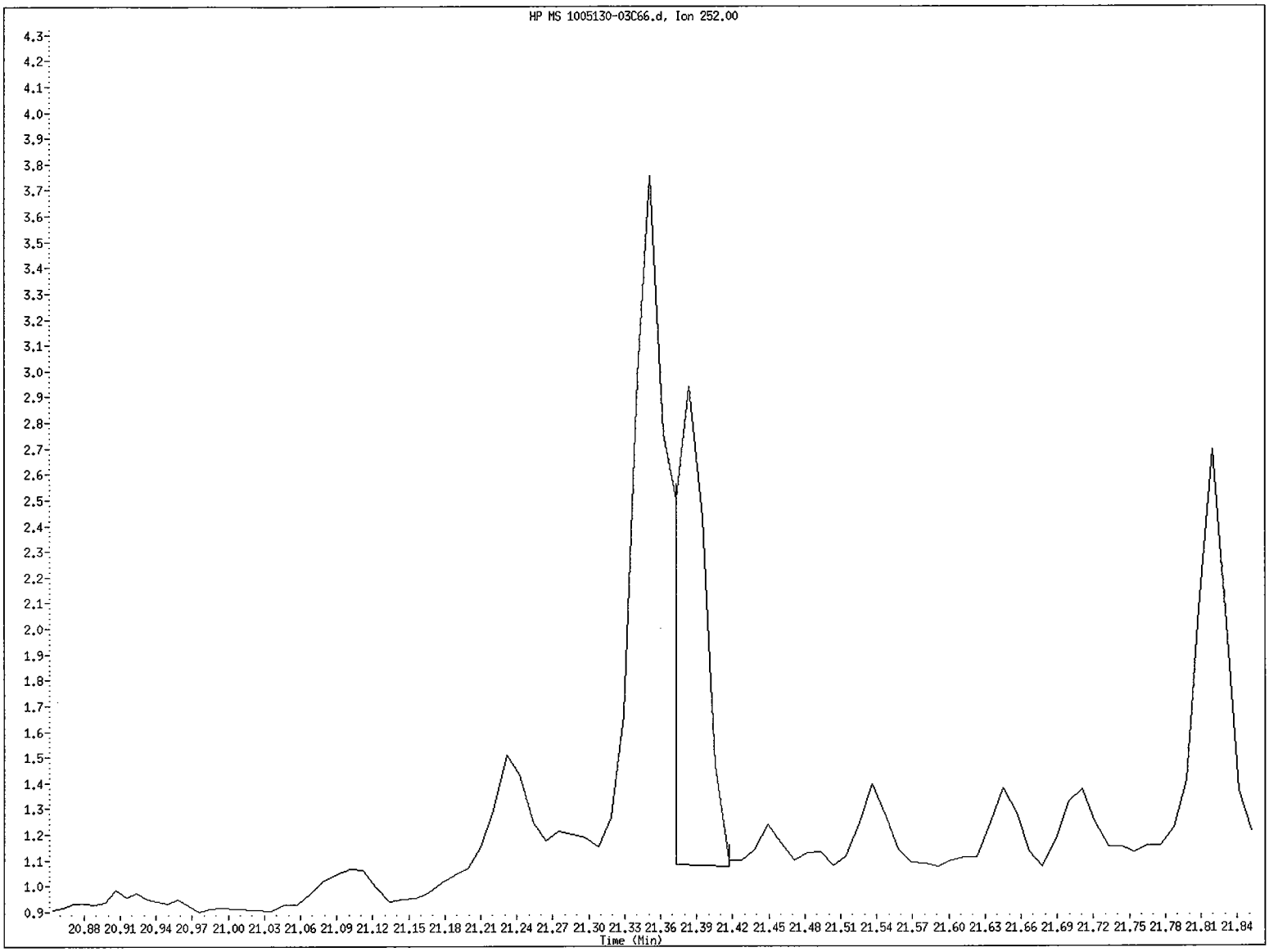
Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Report Date: 02-Jun-2010 11:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	12.273	12.261	(0.870)	3447	0.03494	0.65(a)
25 Phenanthrene	178	14.140	14.126	(1.003)	21591	0.16426	3.1(a)
26 Anthracene	178	14.231	14.218	(1.009)	4401	0.03722	0.70(a)
27 Fluoranthene	202	16.513	16.486	(0.853)	14880	0.15587	2.9(a)
28 Pyrene	202	16.930	16.917	(0.874)	13790	0.13264	2.5(a)
29 Benzo(a)anthracene	228	19.327	19.302	(0.998)	5132	0.06557	1.2(a)
30 Chrysene	228	19.405	19.380	(1.002)	6339	0.07478	1.4(a)
31 Benzo(b)fluoranthene	252	21.351	21.318	(0.970)	5224	0.06525	1.2(a)
32 Benzo(k)fluoranthene	252	21.384	21.350	(0.972)	3296	0.03825	0.72(aM)
33 Benzo(a)pyrene	252	21.896	21.862	(0.995)	2221	0.03078	0.58(aM)
34 Indeno(1,2,3-cd)pyrene	276	24.105	24.028	(1.095)	2698	0.04239	0.79(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.704	24.616	(1.123)	2470	0.03501	0.66(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

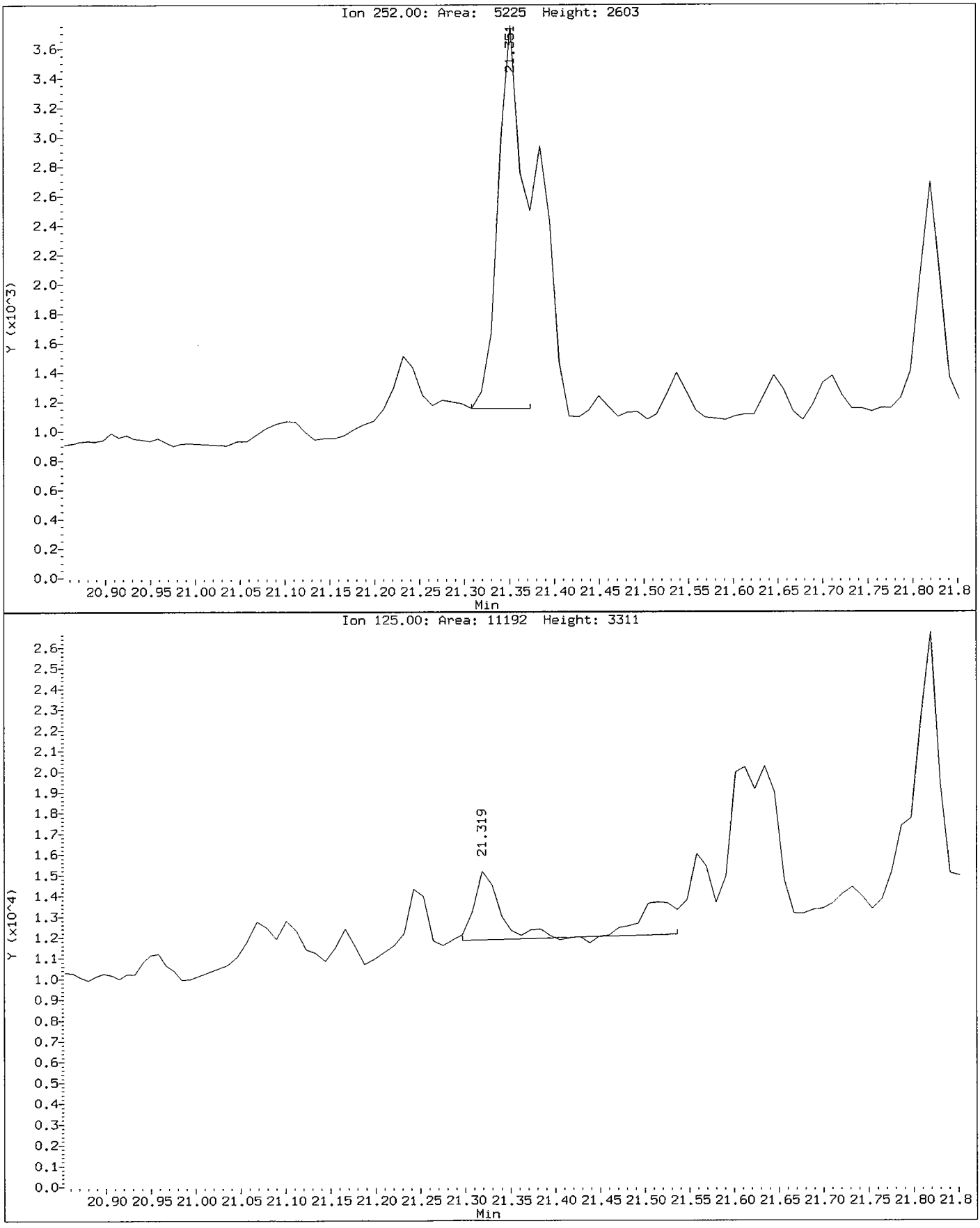
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 3296 Manually integrated



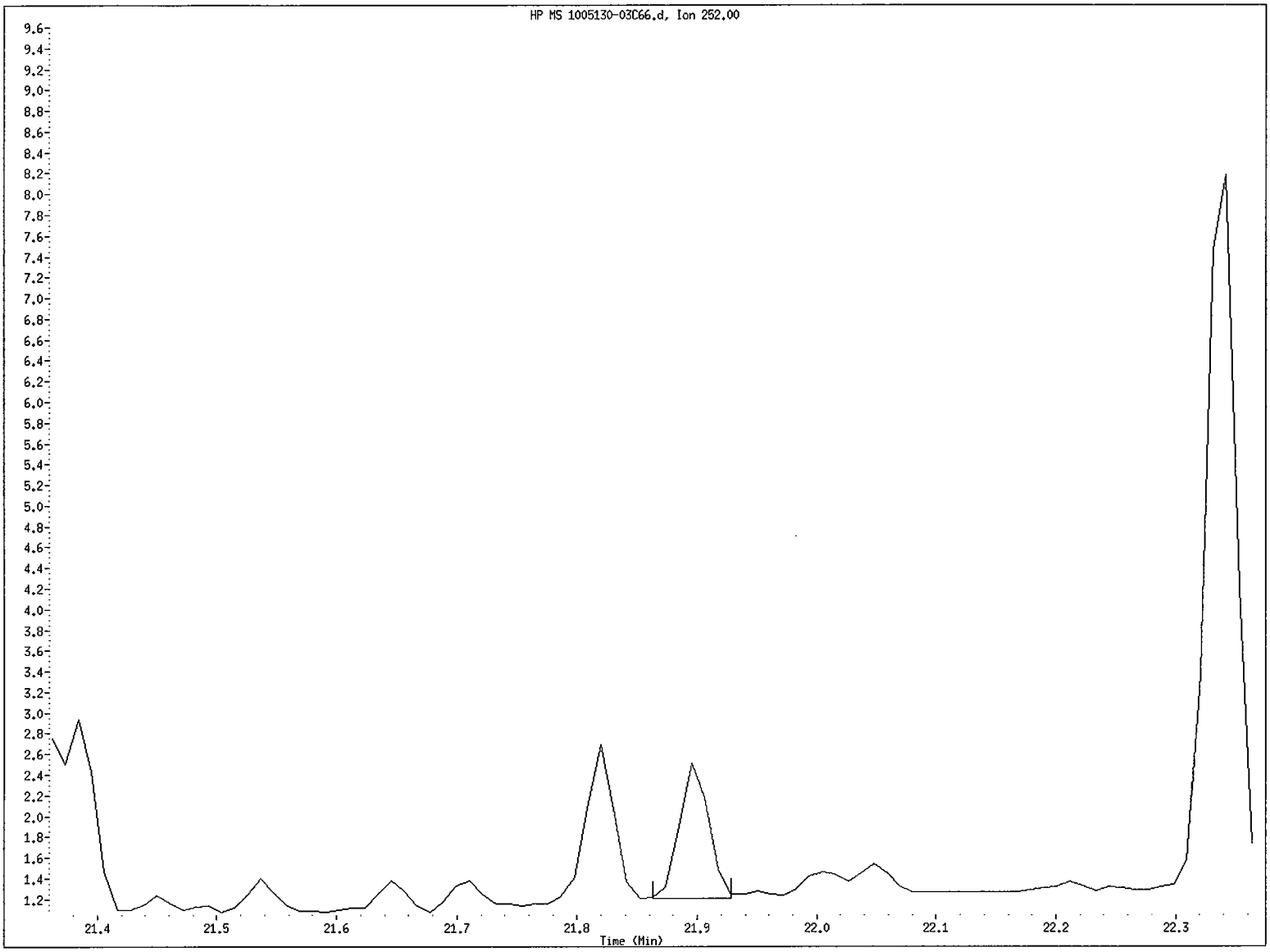
File name: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Client ID: SS24-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 07:33
Retention Time: 21.38
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Injection Date: 31-MAY-2010 07:33
Instrument: 5972hp66.i
Client Sample ID: SS24-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



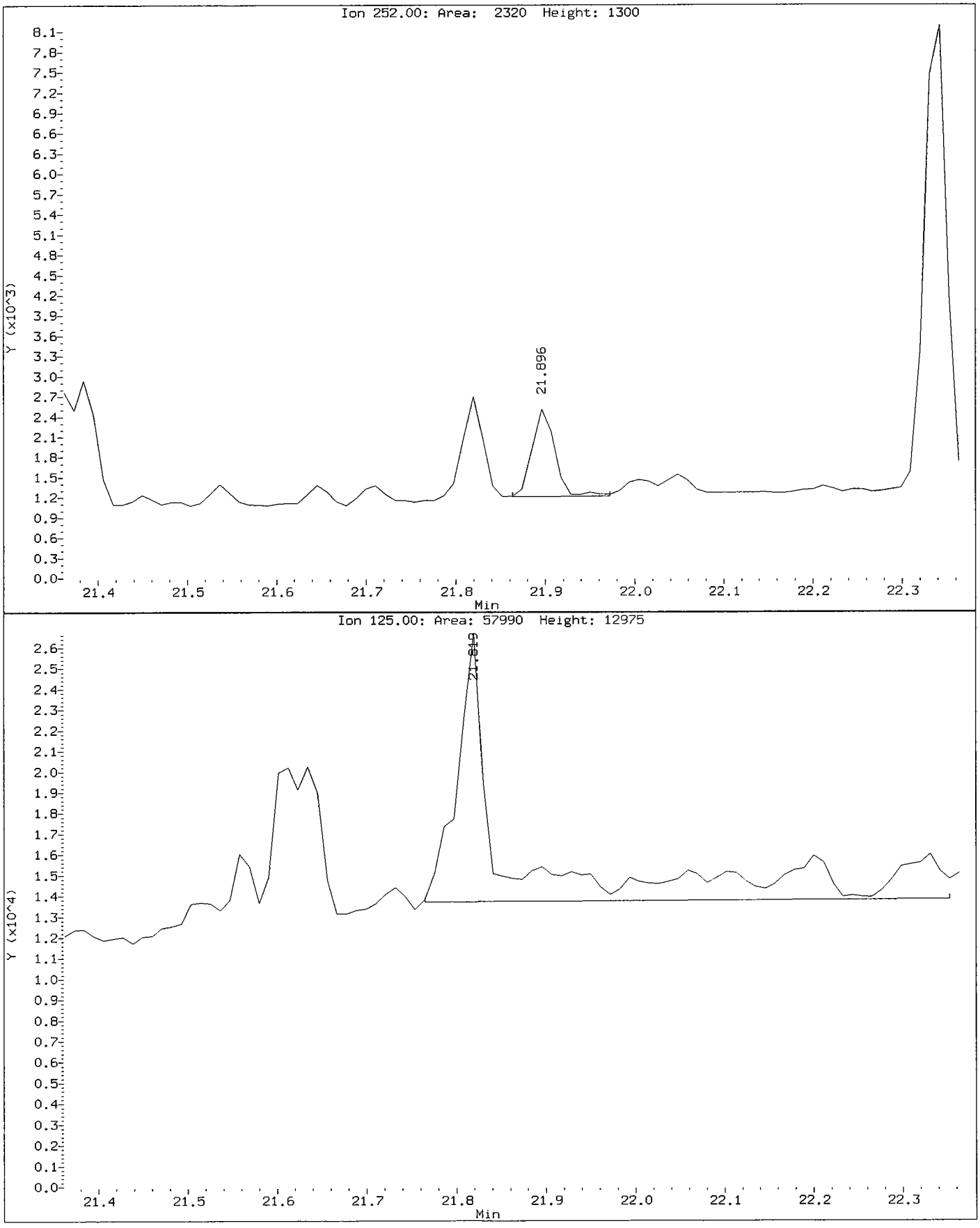
Benzo(a)pyrene CAS Number 50-32-8 Area = 2221 Manually integrated



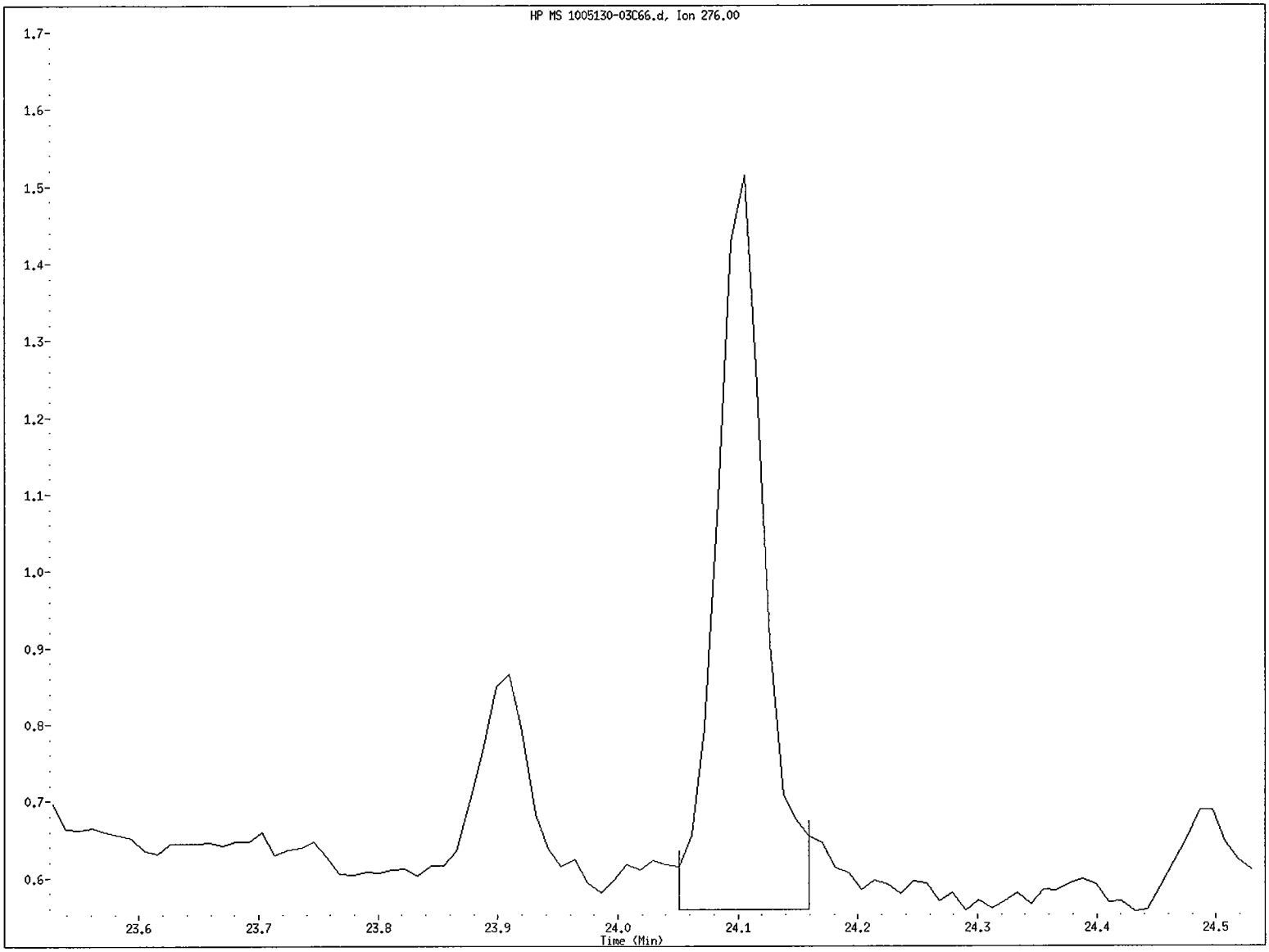
File name: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Client ID: SS24-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 07:33
Retention Time: 21.90
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Injection Date: 31-MAY-2010 07:33
Instrument: 5972hp66.i
Client Sample ID: SS24-0-1

Compound: Benzo(a)pyrene
CAS Number: 50-32-8



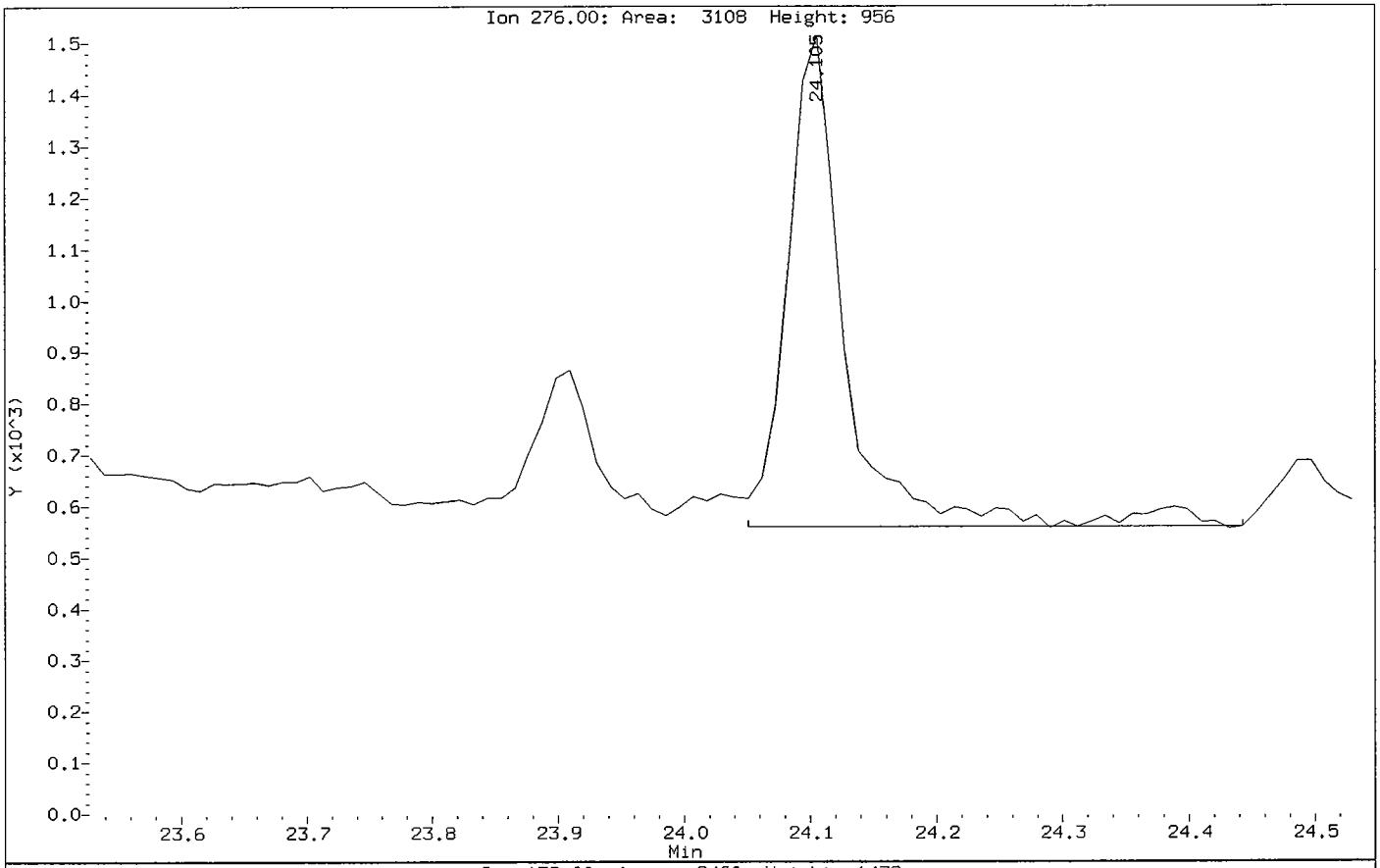
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 2698 Manually integrated

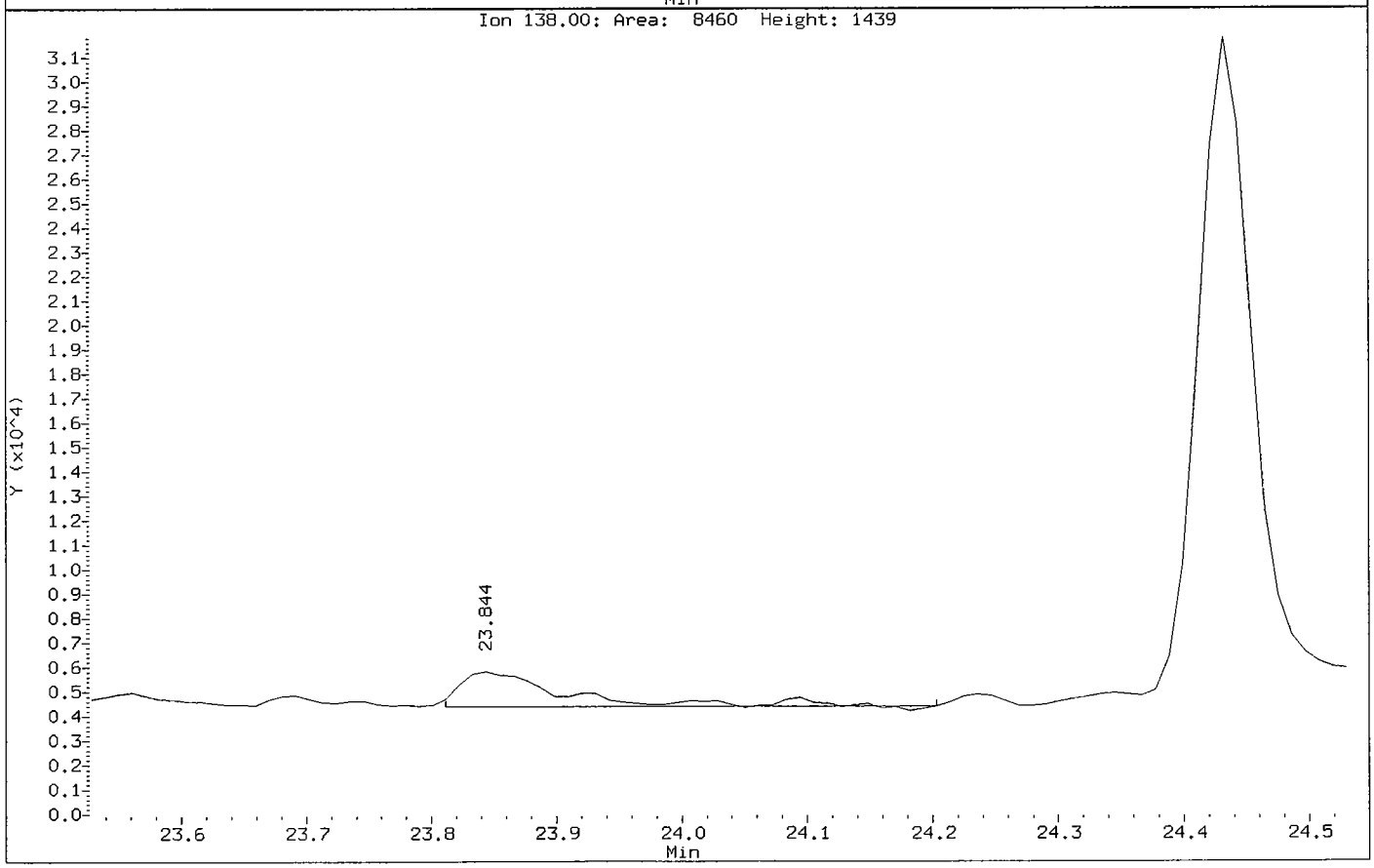


File name: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Client ID: SS24-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 07:33
Retention Time: 24.11
Operator ID: 2743

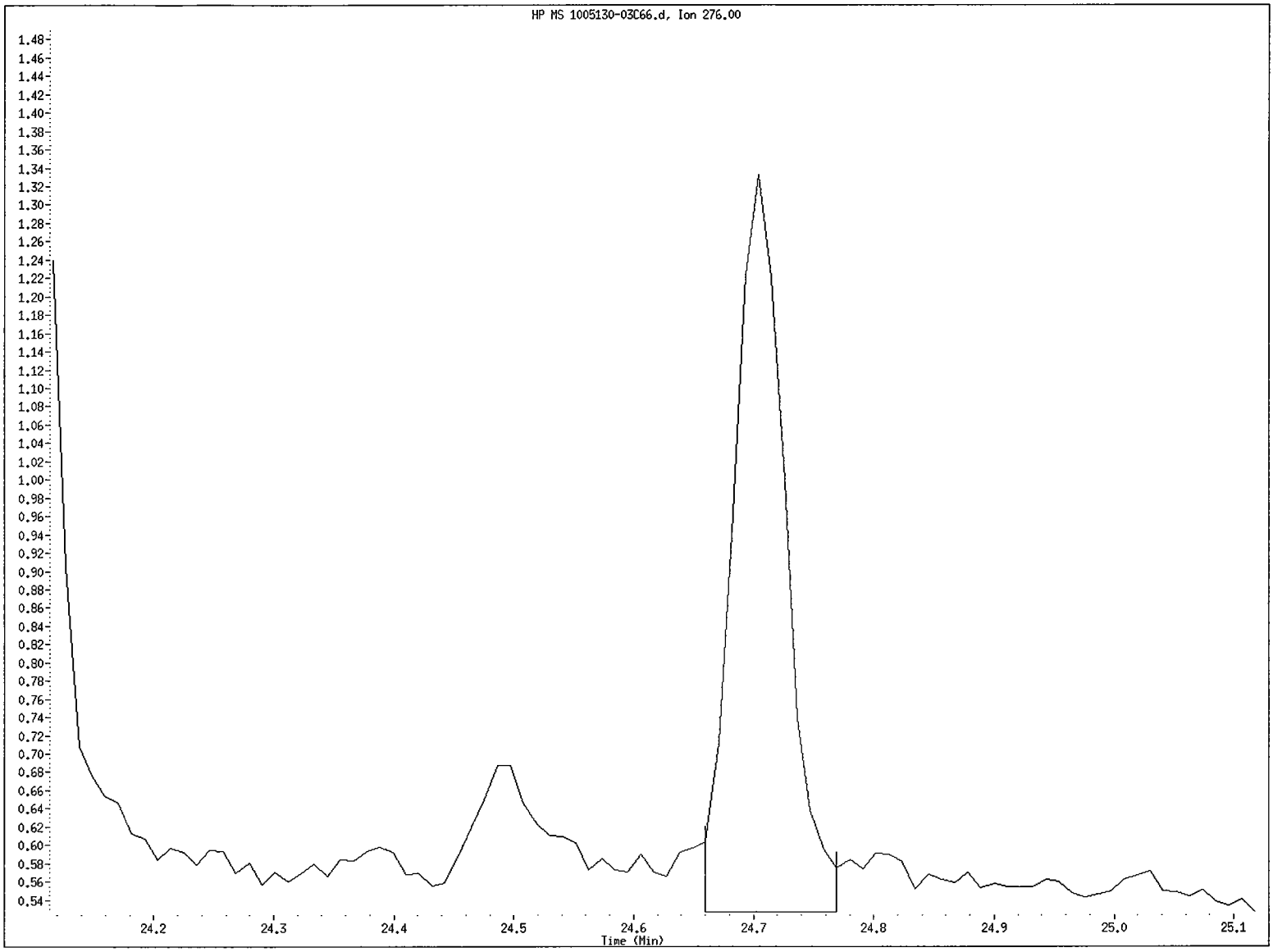
Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Injection Date: 31-MAY-2010 07:33
Instrument: 5972hp66.i
Client Sample ID: SS24-0-1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





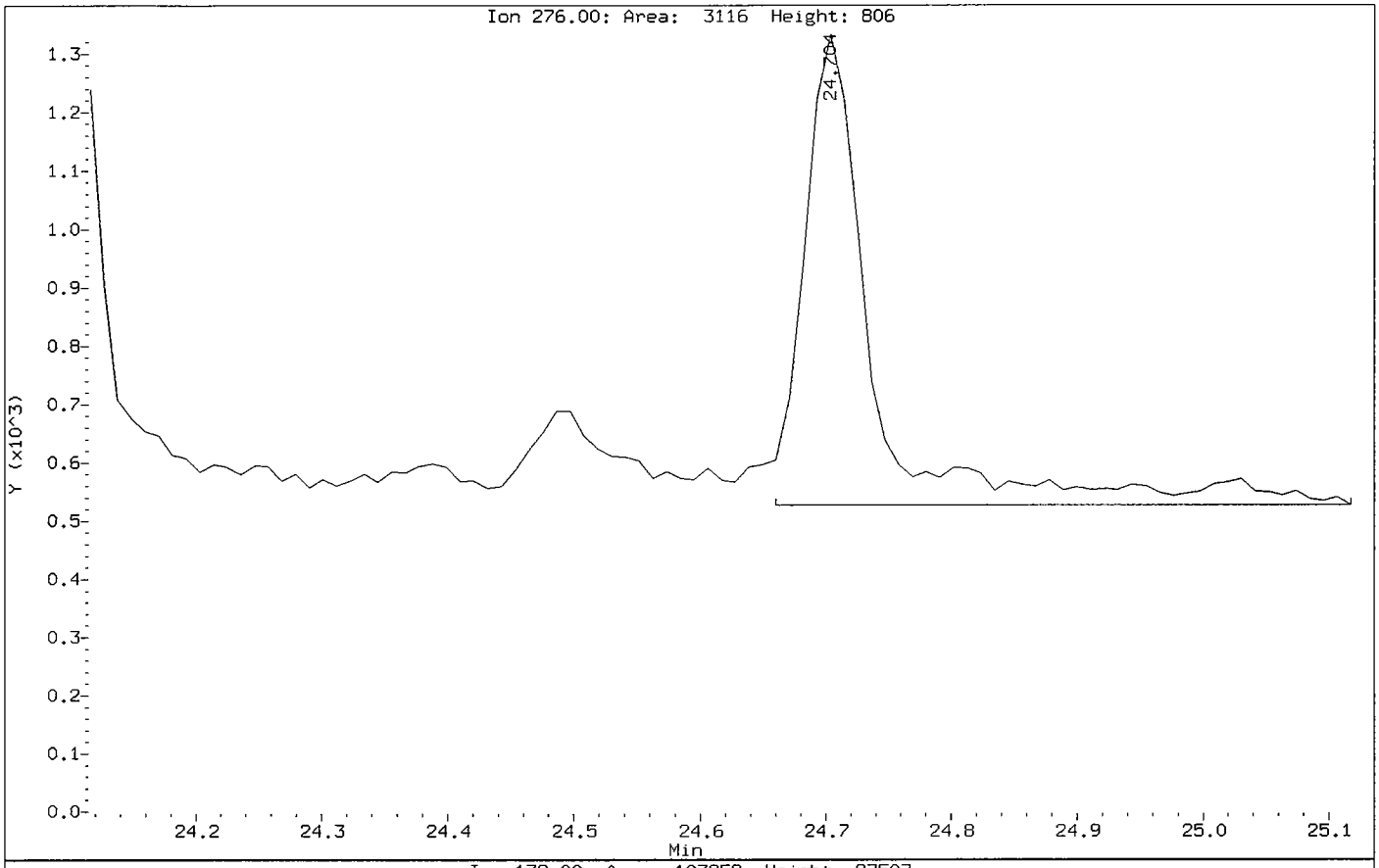
Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 2470 Manually integrated

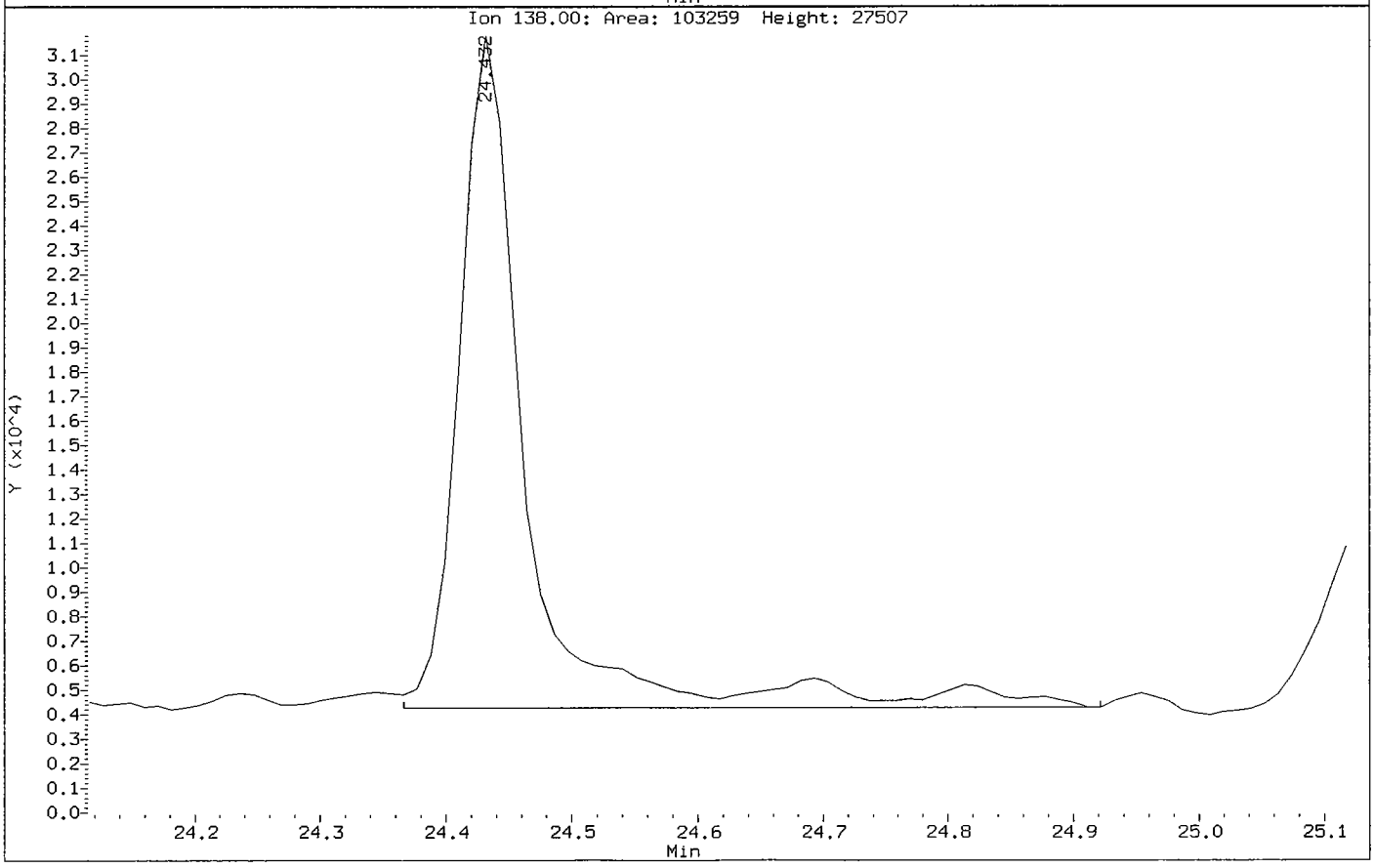


File name: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Client ID: SS24-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 07:33
Retention Time: 24.70
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d
Injection Date: 31-MAY-2010 07:33
Instrument: 5972hp66.i
Client Sample ID: SS24-0-1

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

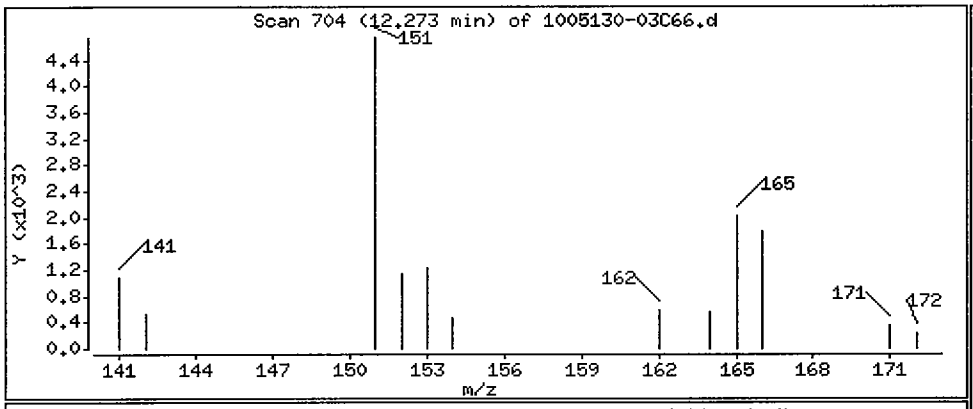
Client ID: SS24-0-1 Instrument: 5972hp66.i

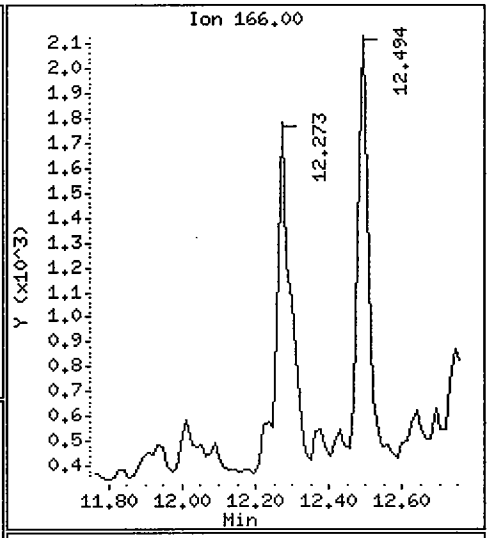
Sample Info: 1005130-03:2743

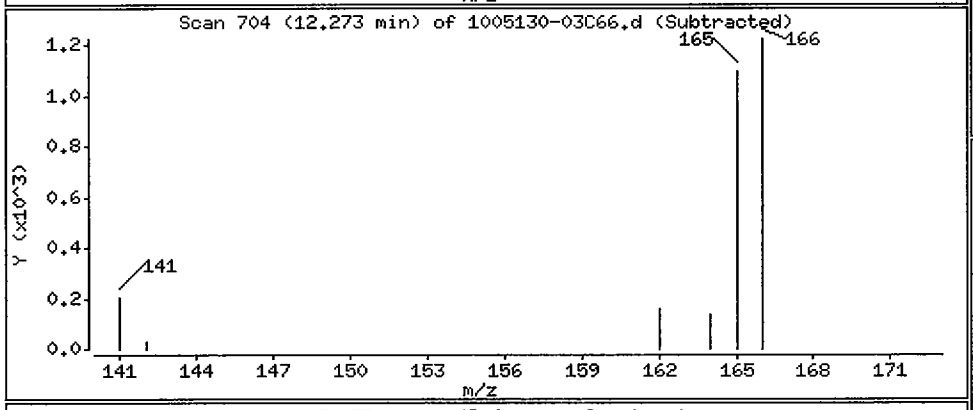
Volume Injected (uL): 2.0 Operator: 2743

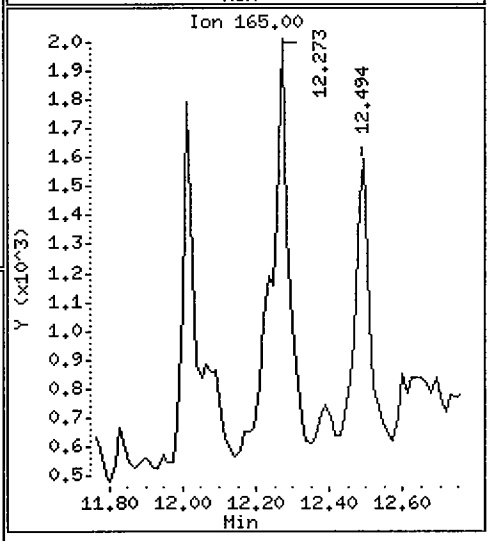
Column phase: Rtx-5MS Column diameter: 0.32

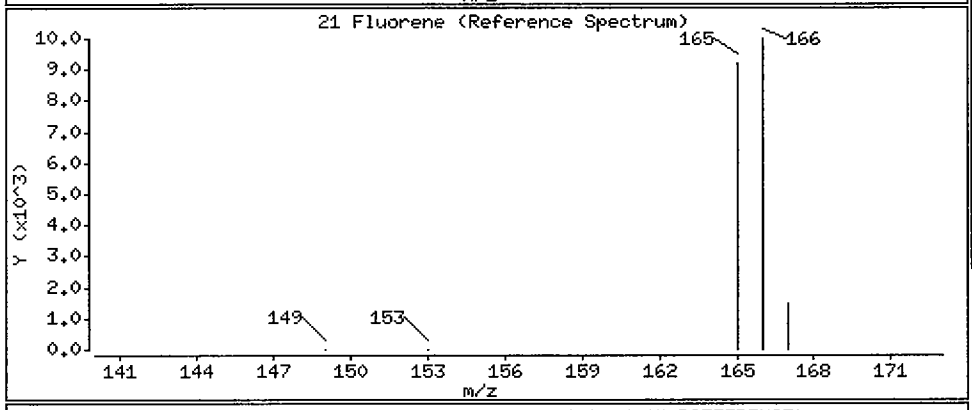
21 Fluorene Concentration: 0.65 ug/Kg

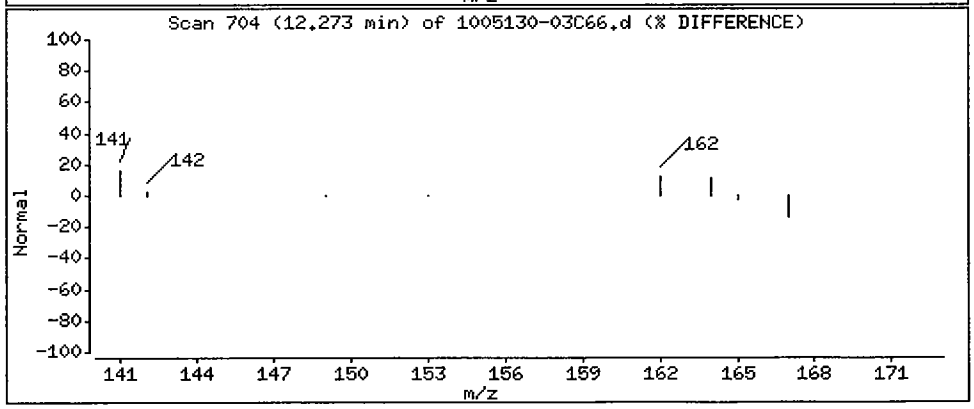












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

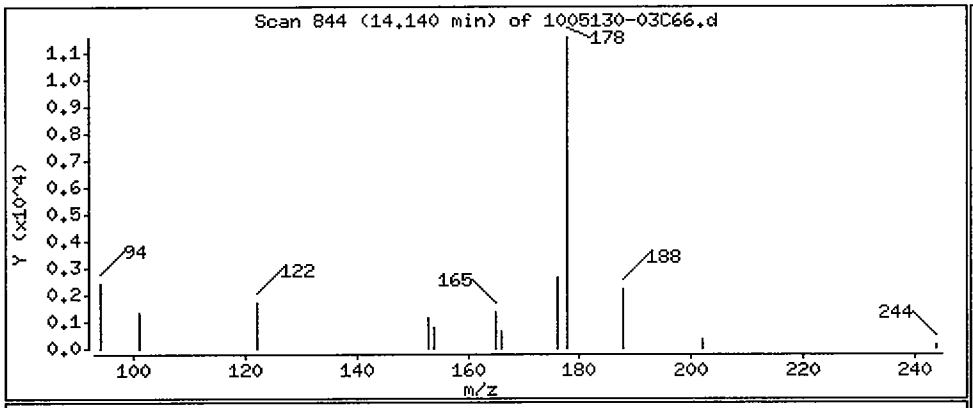
Client ID: SS24-0-1 Instrument: 5972hp66.i

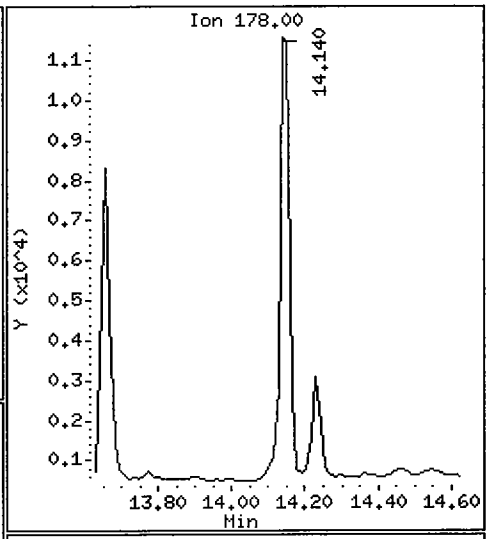
Sample Info: 1005130-03:2743

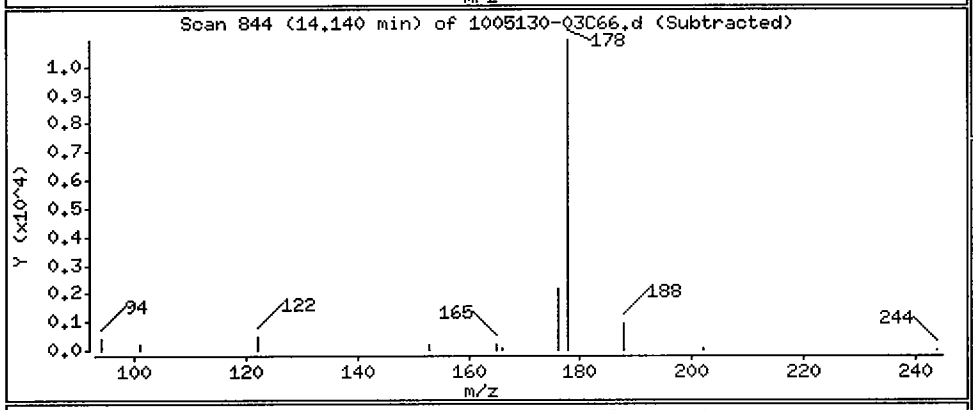
Volume Injected (uL): 2.0 Operator: 2743

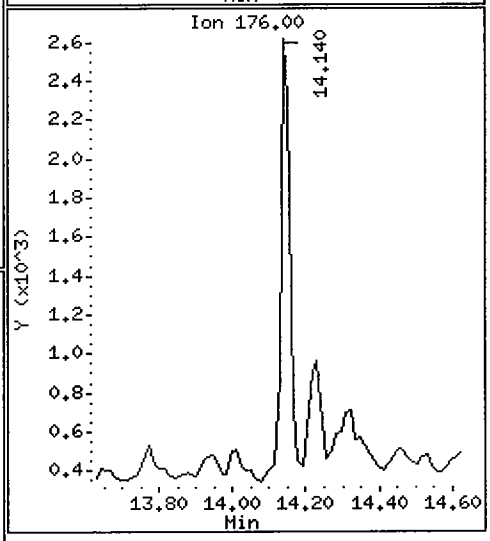
Column phase: Rtx-5MS Column diameter: 0.32

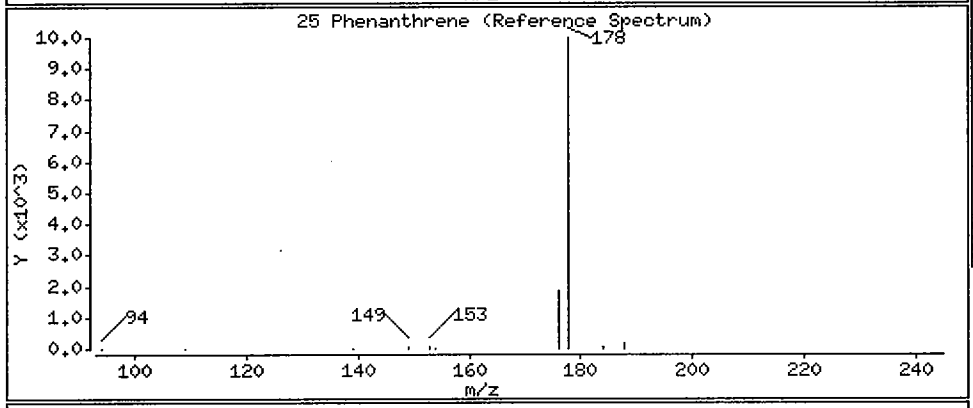
25 Phenanthrene Concentration: 3.1 ug/Kg

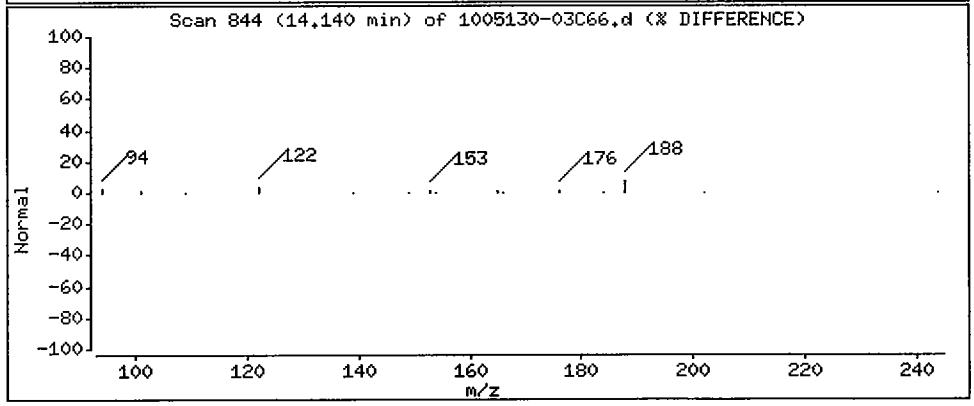












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

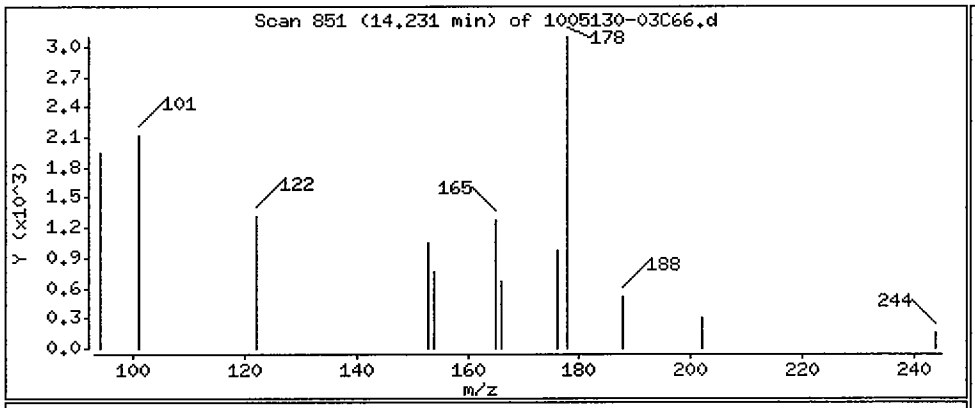
Client ID: SS24-0-1 Instrument: 5972hp66.i

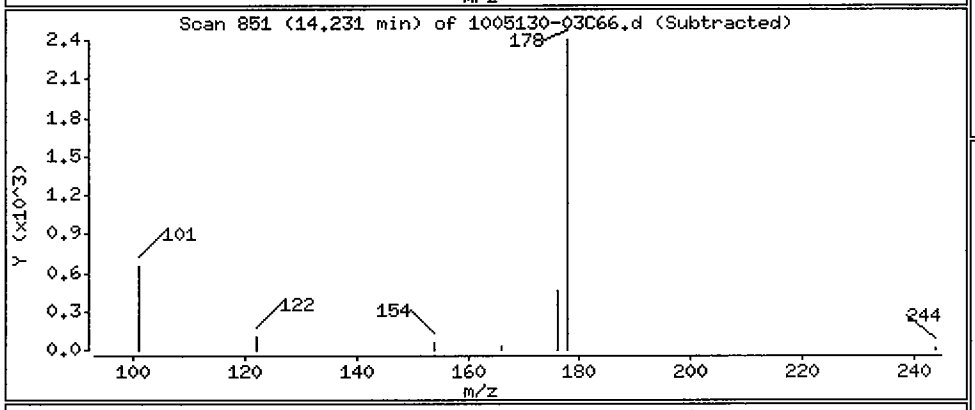
Sample Info: 1005130-03;2743

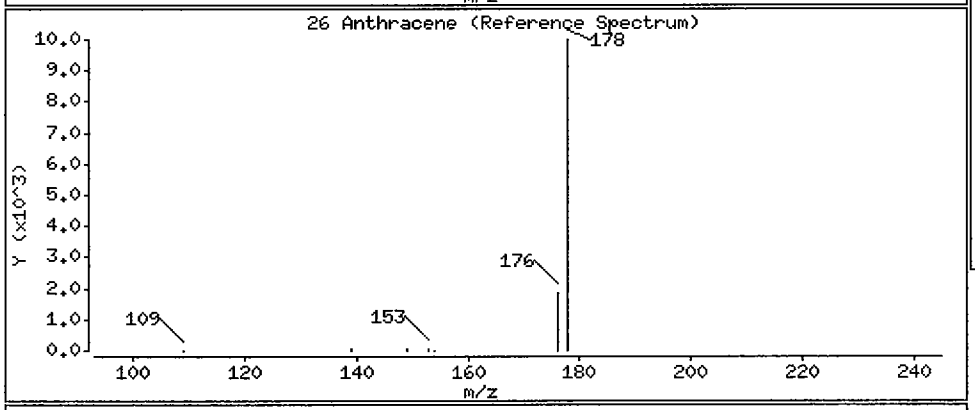
Volume Injected (uL): 2.0 Operator: 2743

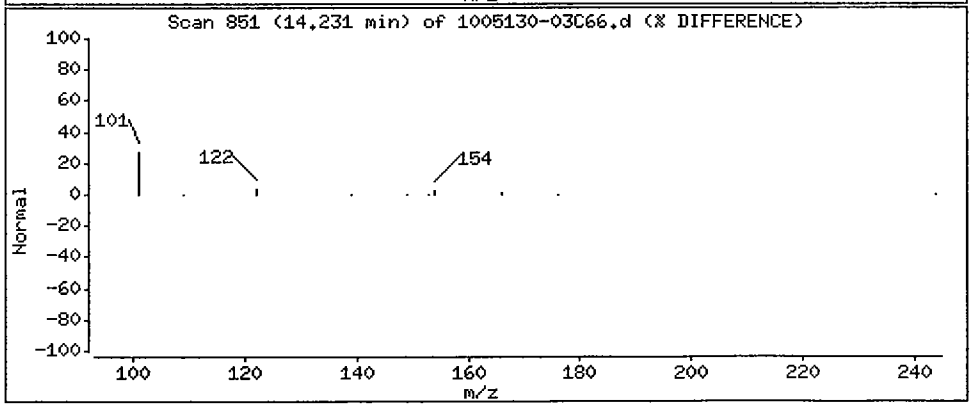
Column phase: Rtx-5MS Column diameter: 0.32

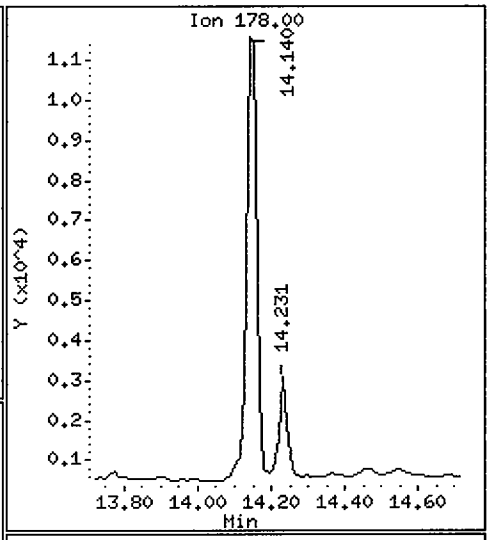
26 Anthracene Concentration: 0.70 ug/Kg

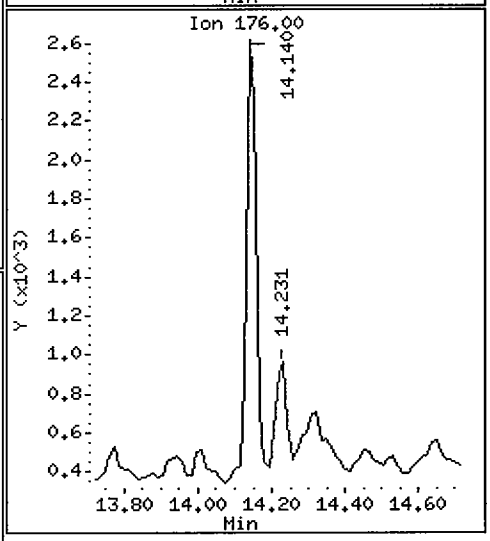












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

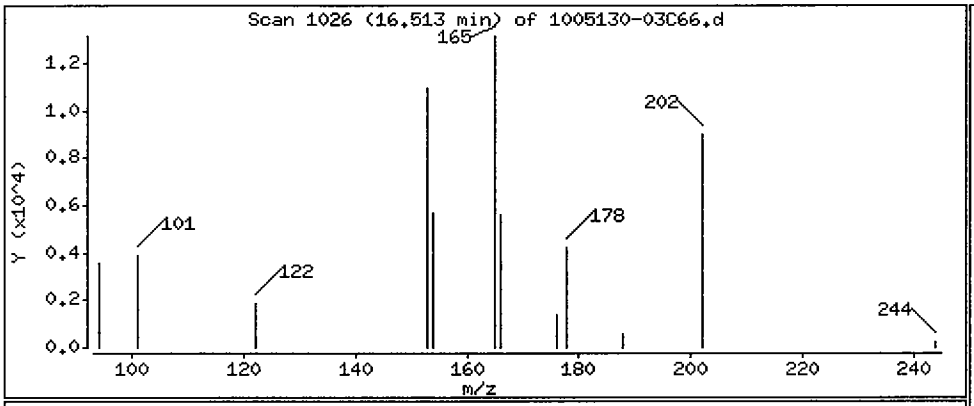
Client ID: SS24-0-1 Instrument: 5972hp66.i

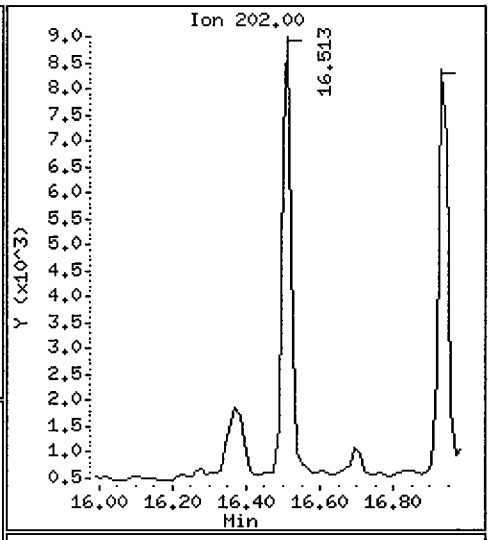
Sample Info: 1005130-03;2743

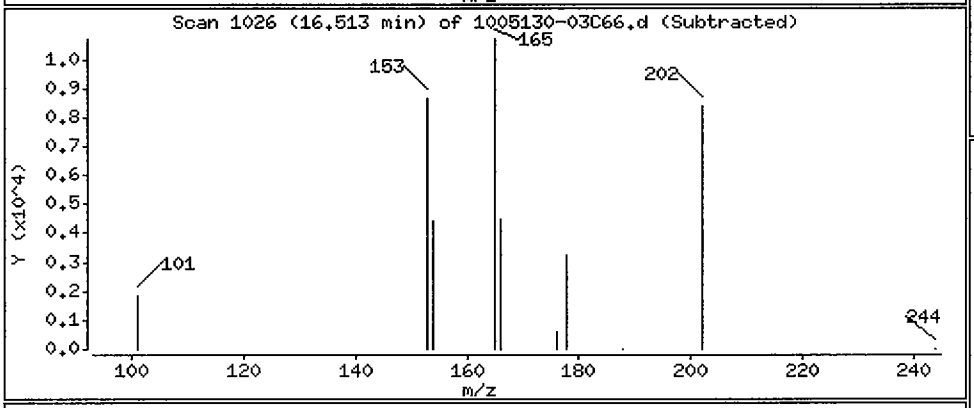
Volume Injected (uL): 2.0 Operator: 2743

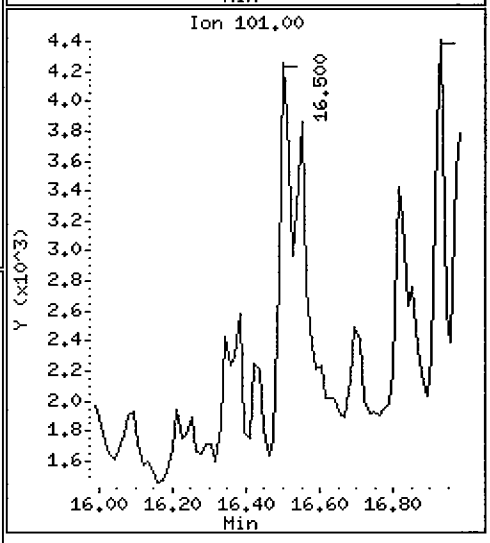
Column phase: Rtx-5MS Column diameter: 0.32

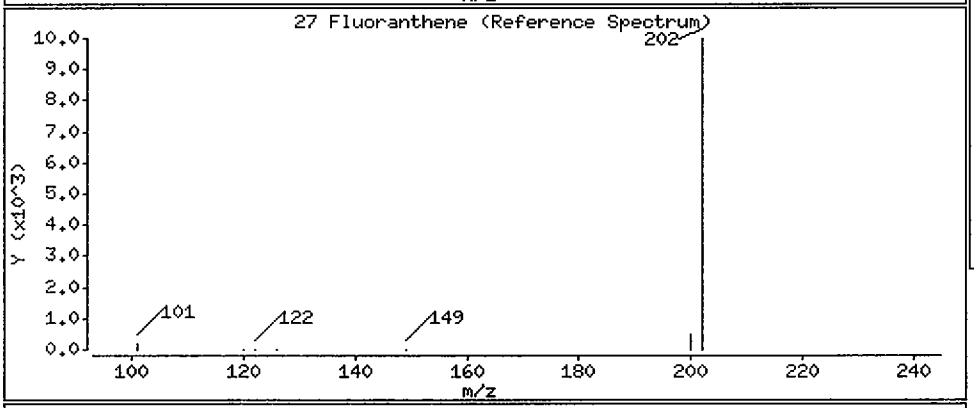
27 Fluoranthene Concentration: 2.9 ug/Kg

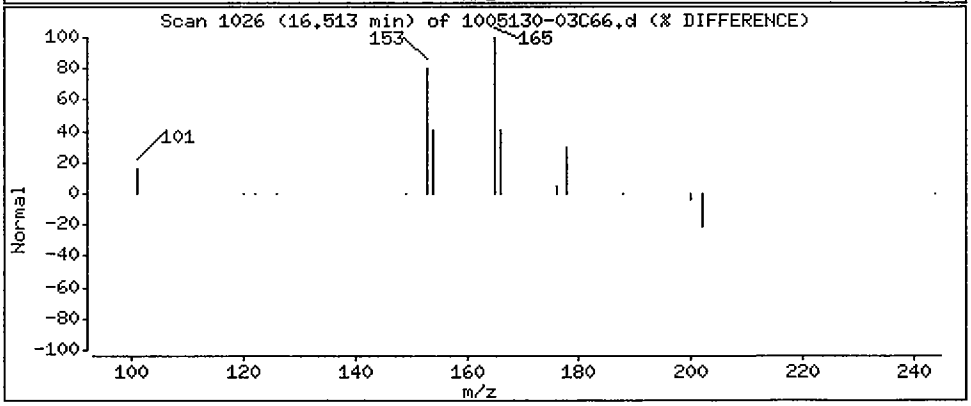












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

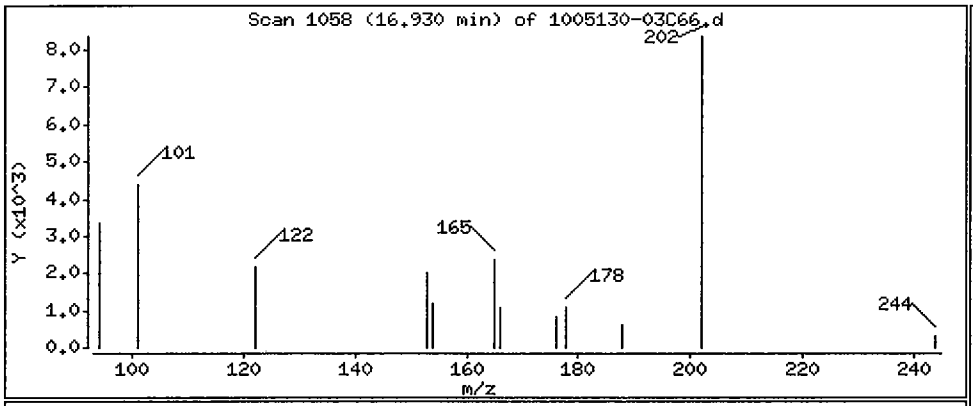
Client ID: SS24-0-1 Instrument: 5972hp66.i

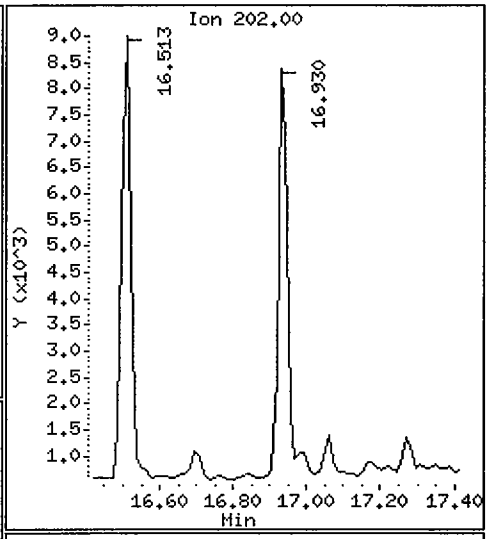
Sample Info: 1005130-03:2743

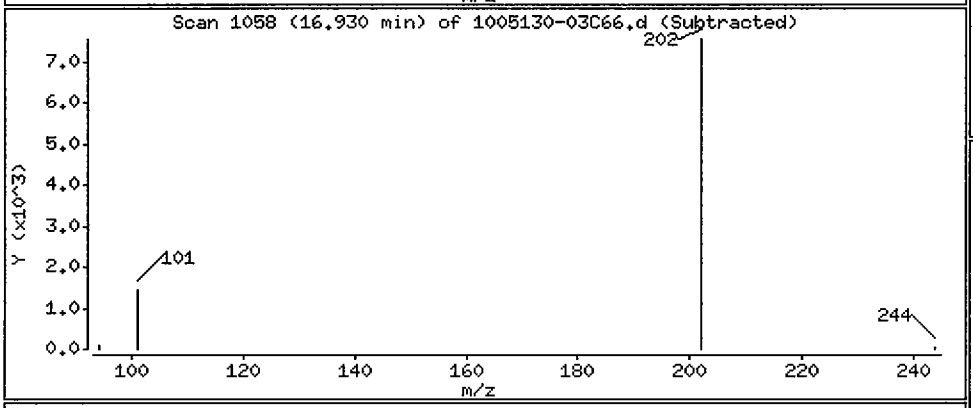
Volume Injected (uL): 2.0 Operator: 2743

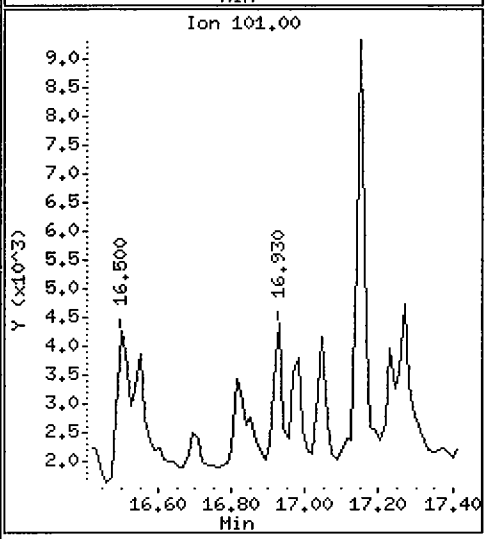
Column phase: Rtx-5MS Column diameter: 0.32

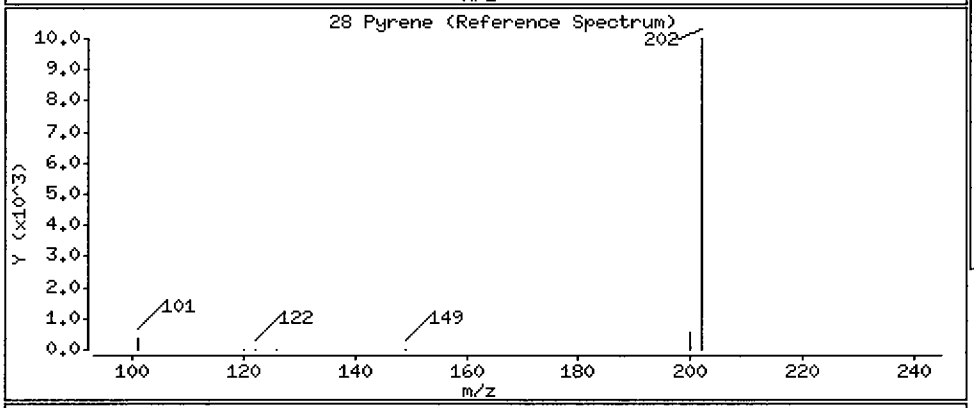
28 Pyrene Concentration: 2.5 ug/Kg

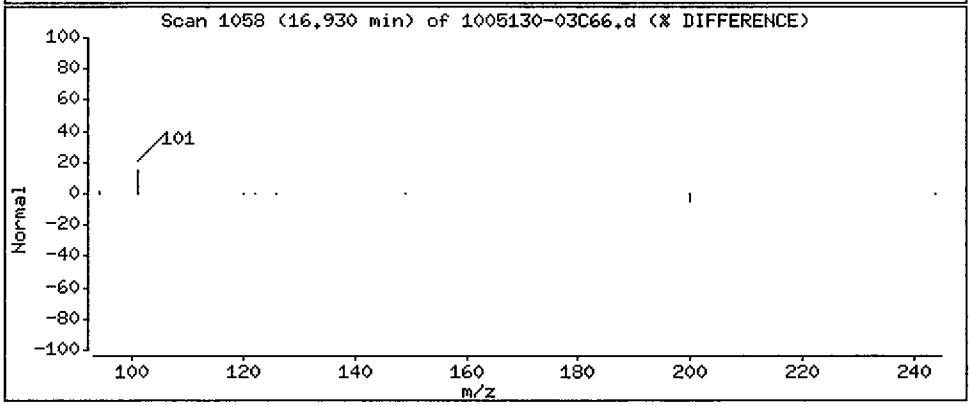












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

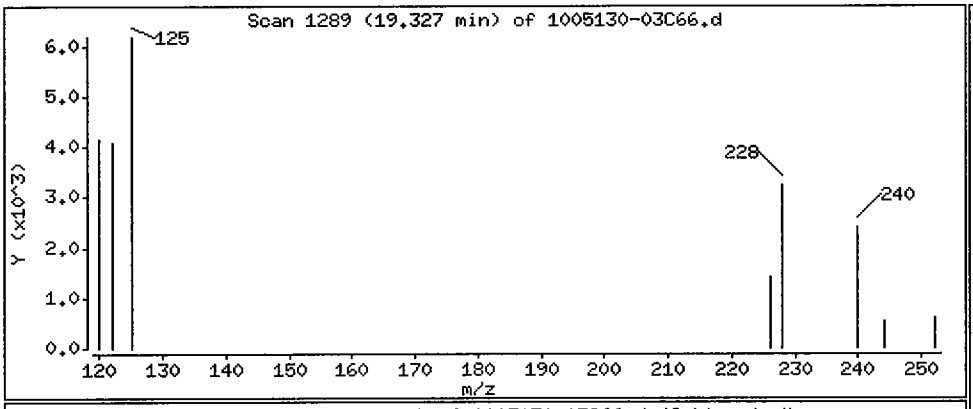
Client ID: SS24-0-1 Instrument: 5972hp66.i

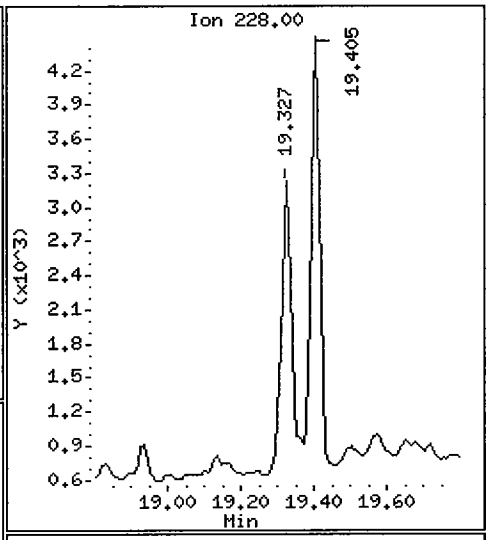
Sample Info: 1005130-03;2743

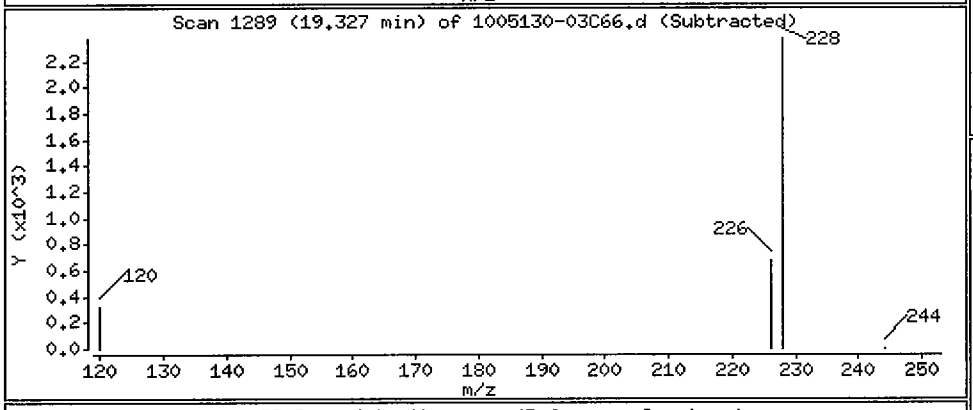
Volume Injected (uL): 2.0 Operator: 2743

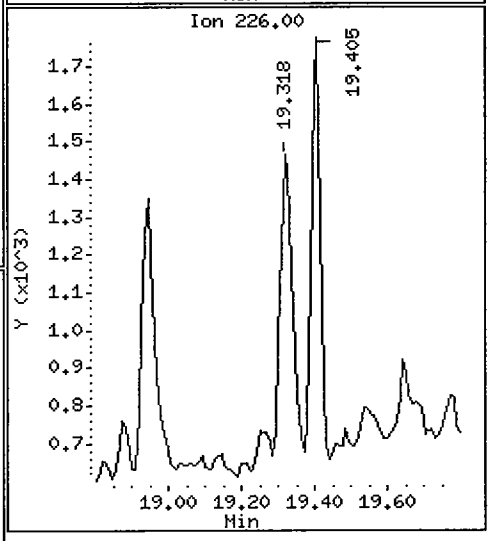
Column phase: Rtx-5MS Column diameter: 0.32

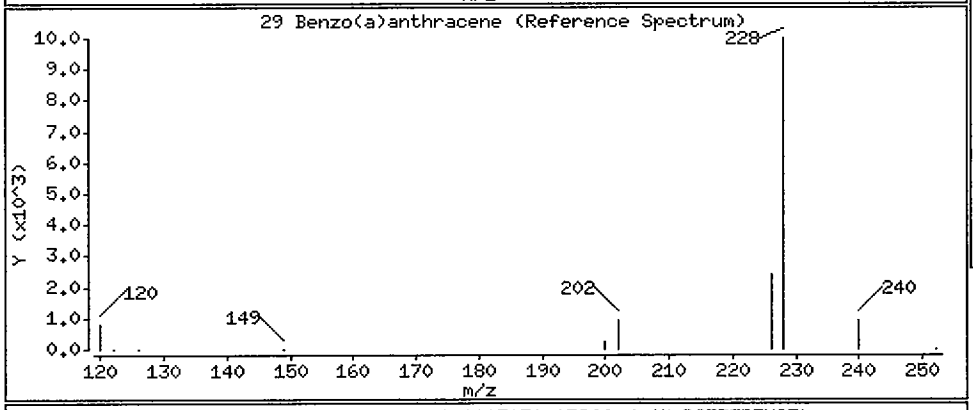
29 Benzo(a)anthracene Concentration: 1.2 ug/Kg

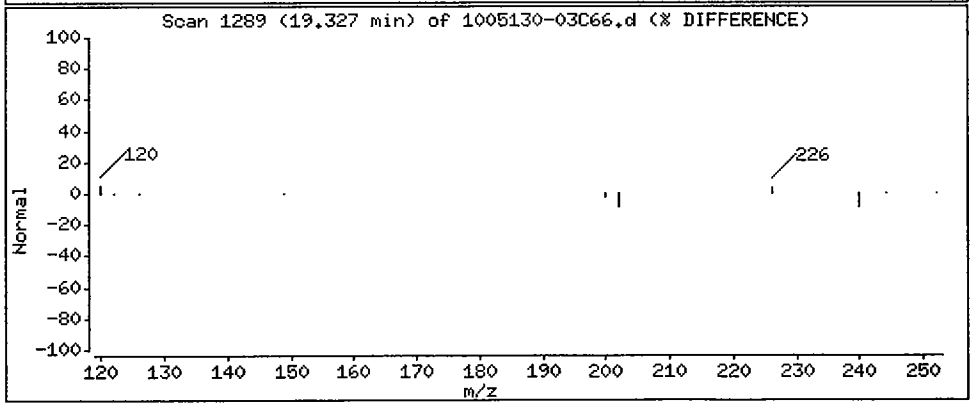












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

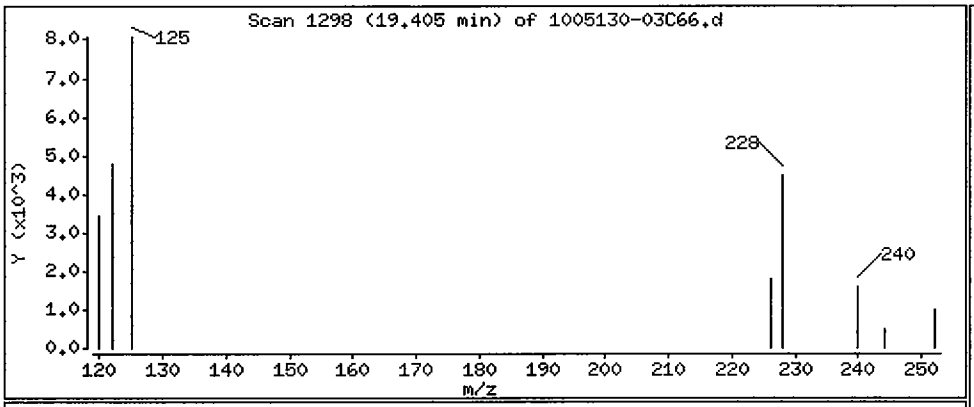
Client ID: SS24-0-1 Instrument: 5972hp66.i

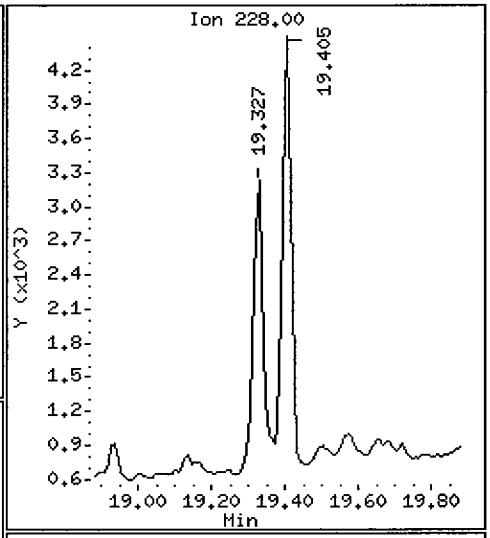
Sample Info: 1005130-03:2743

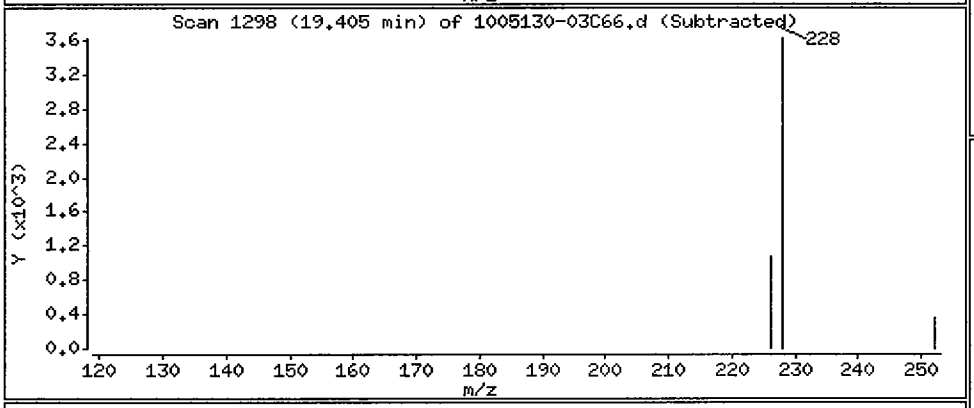
Volume Injected (uL): 2.0 Operator: 2743

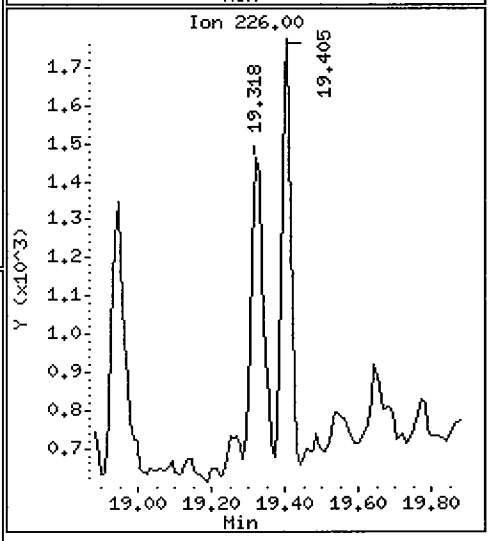
Column phase: Rtx-5MS Column diameter: 0.32

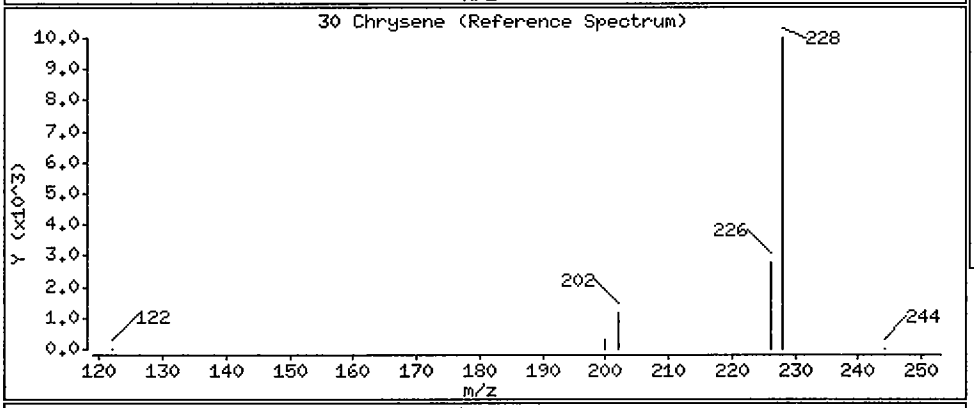
30 Chrysene Concentration: 1.4 ug/Kg

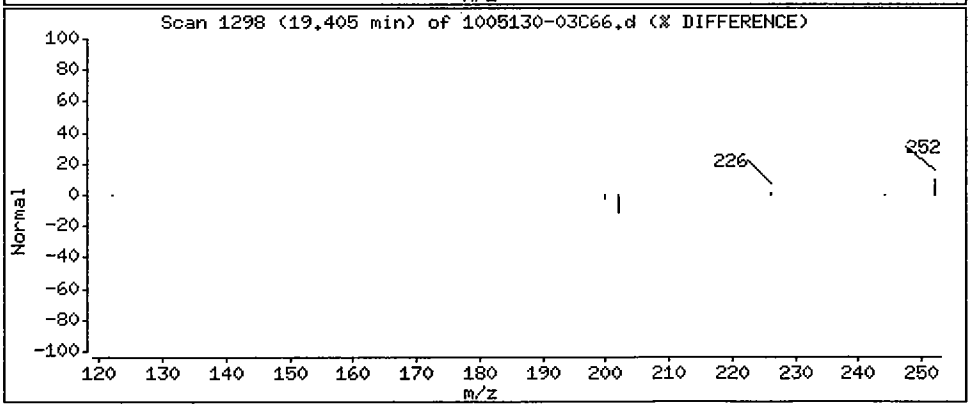












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

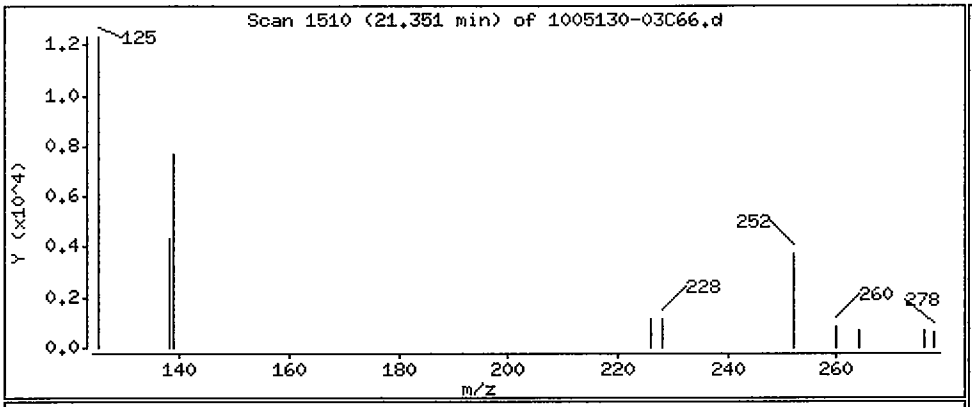
Client ID: SS24-0-1 Instrument: 5972hp66.i

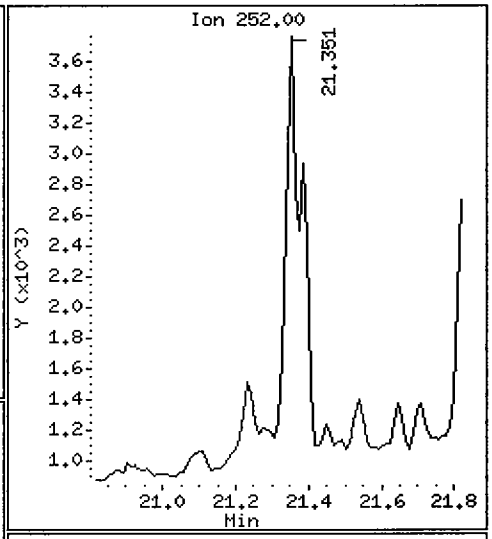
Sample Info: 1005130-03:2743

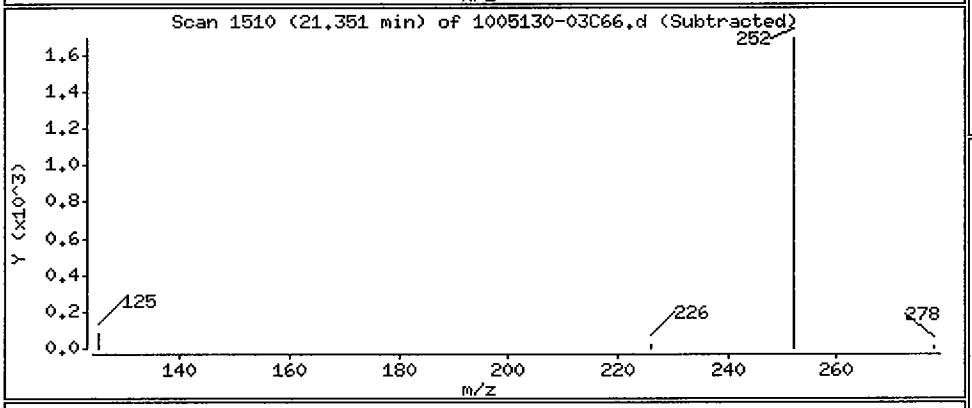
Volume Injected (uL): 2.0 Operator: 2743

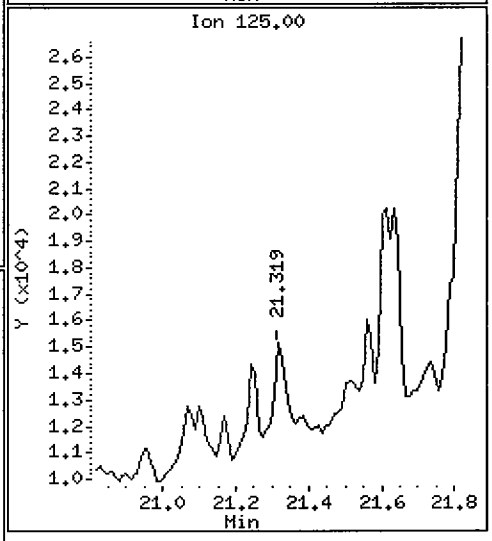
Column phase: Rtx-5MS Column diameter: 0.32

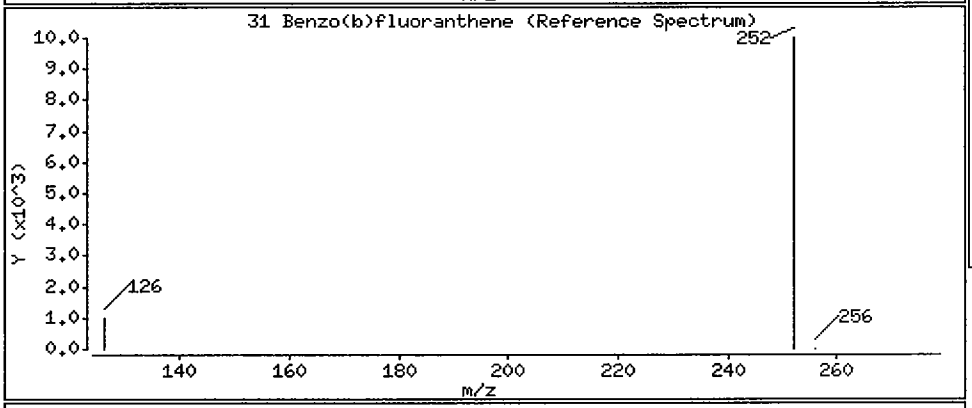
31 Benzo(b)fluoranthene Concentration: 1.2 ug/Kg

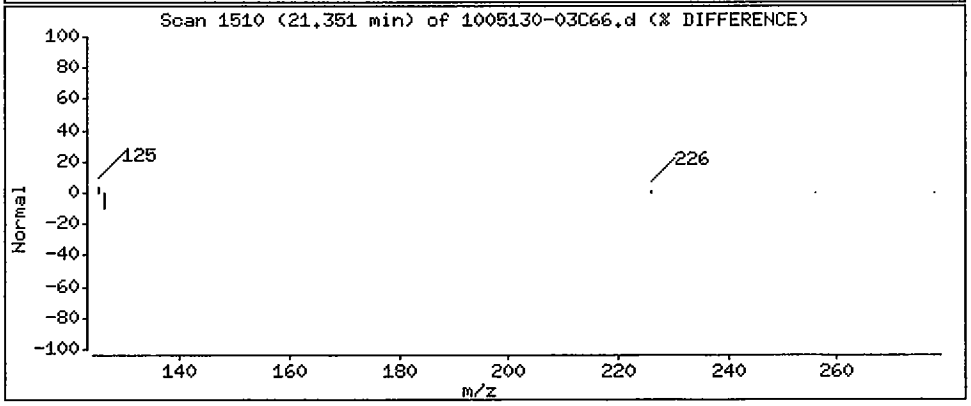












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

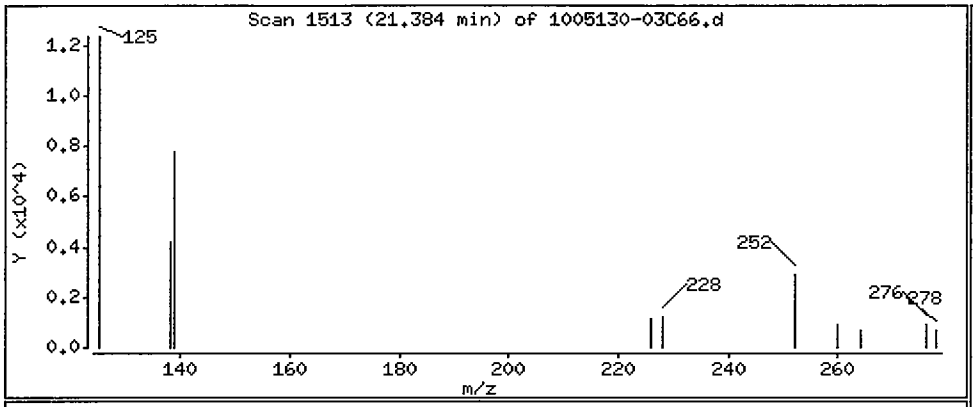
Client ID: SS24-0-1 Instrument: 5972hp66.i

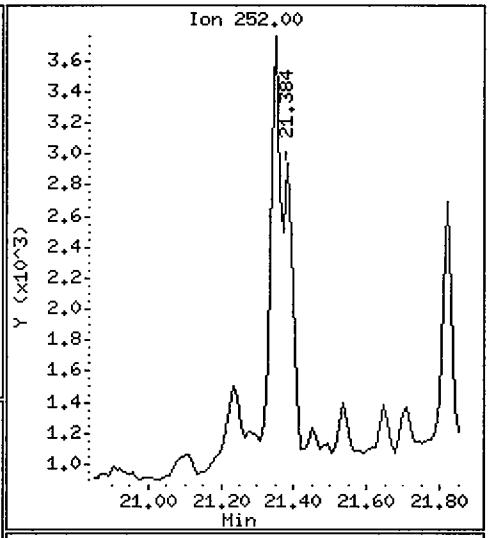
Sample Info: 1005130-03;2743

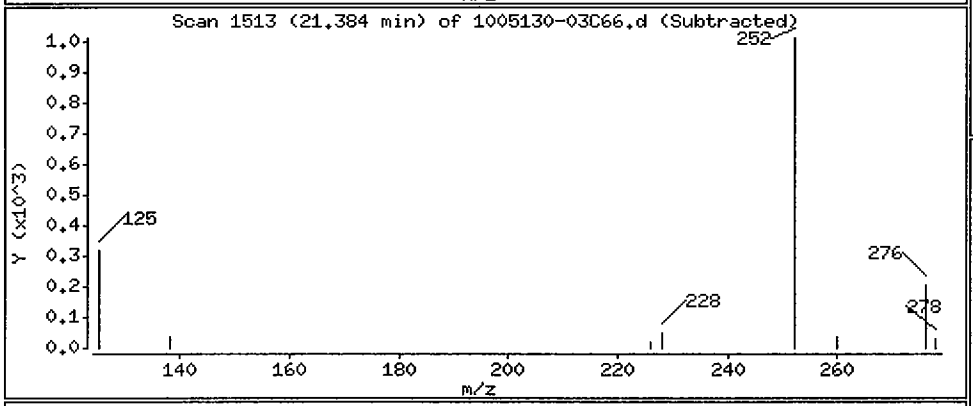
Volume Injected (uL): 2.0 Operator: 2743

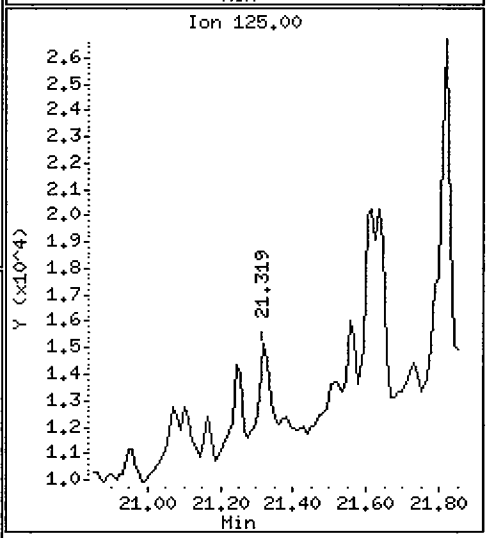
Column phase: Rtx-5MS Column diameter: 0.32

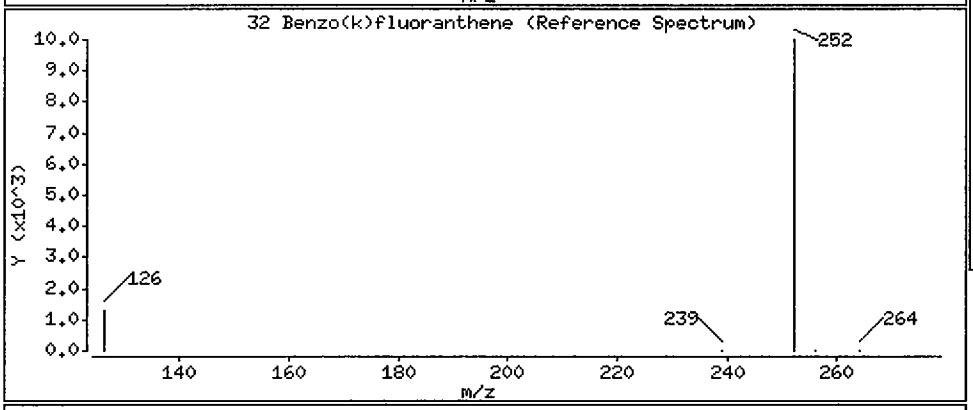
32 Benzo(k)fluoranthene Concentration: 0.72 ug/Kg

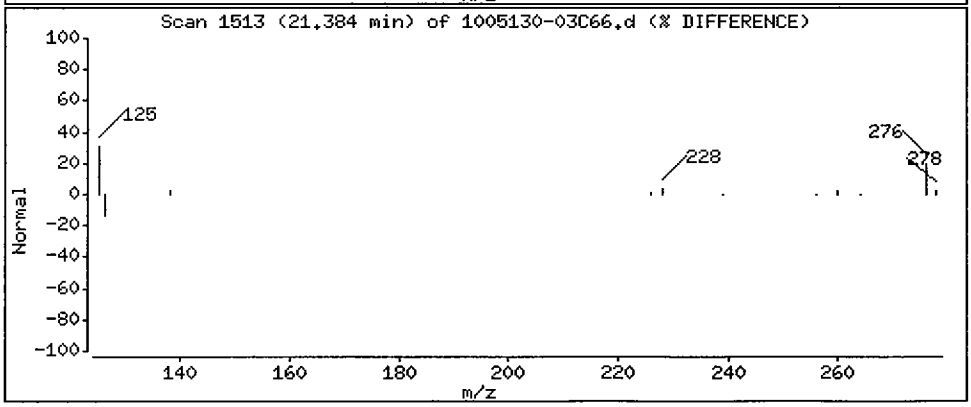












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

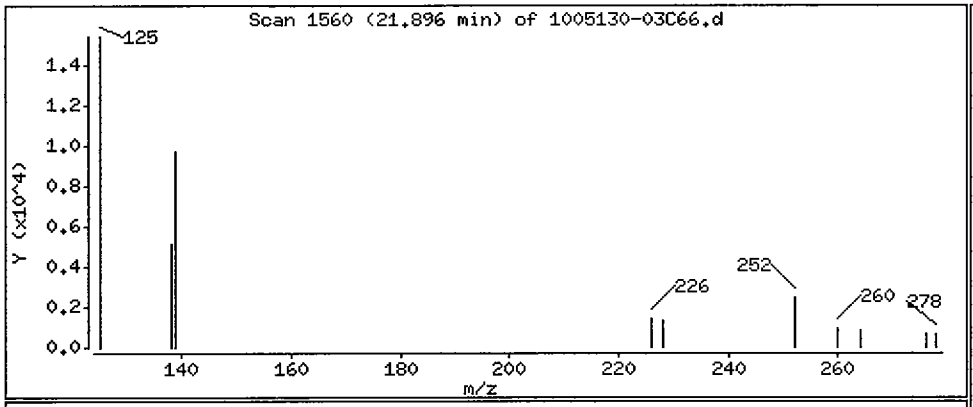
Client ID: SS24-0-1 Instrument: 5972hp66.i

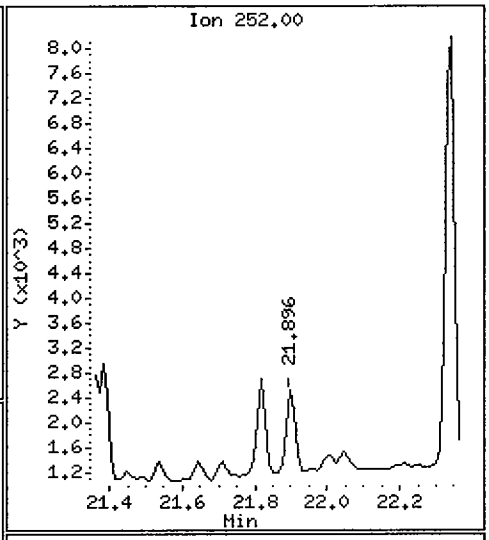
Sample Info: 1005130-03;2743

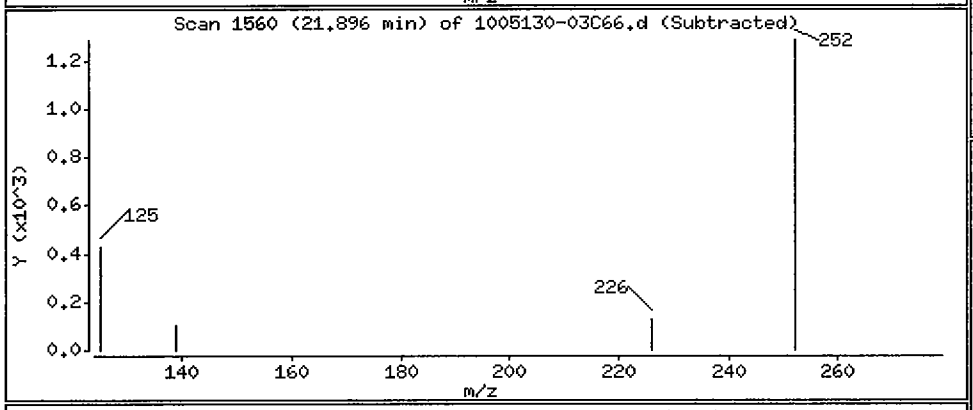
Volume Injected (uL): 2.0 Operator: 2743

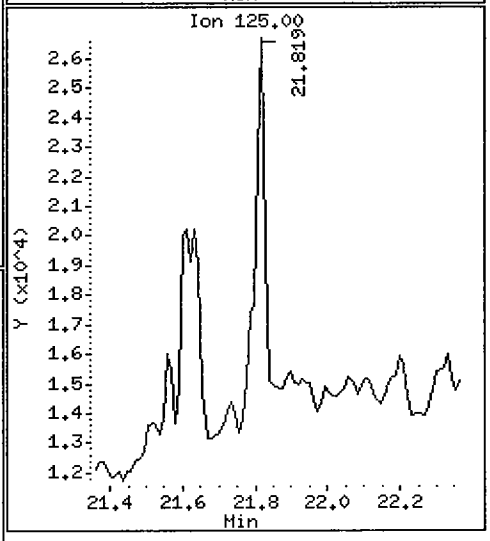
Column phase: Rtx-5MS Column diameter: 0.32

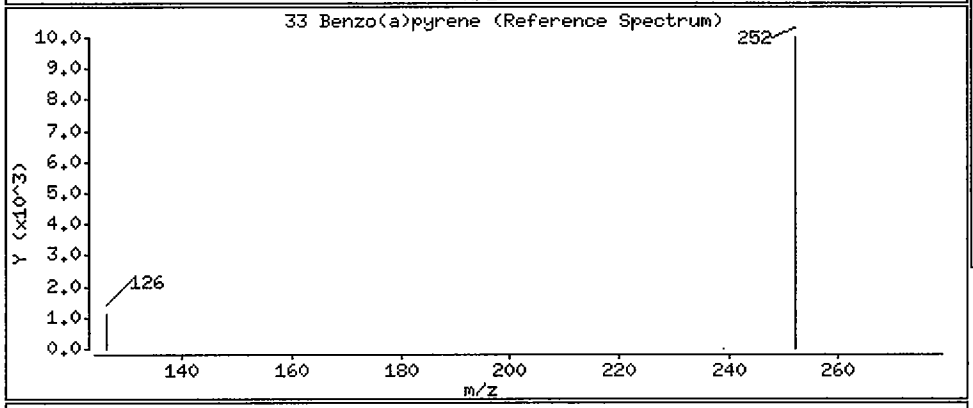
33 Benzo(a)pyrene Concentration: 0.58 ug/Kg

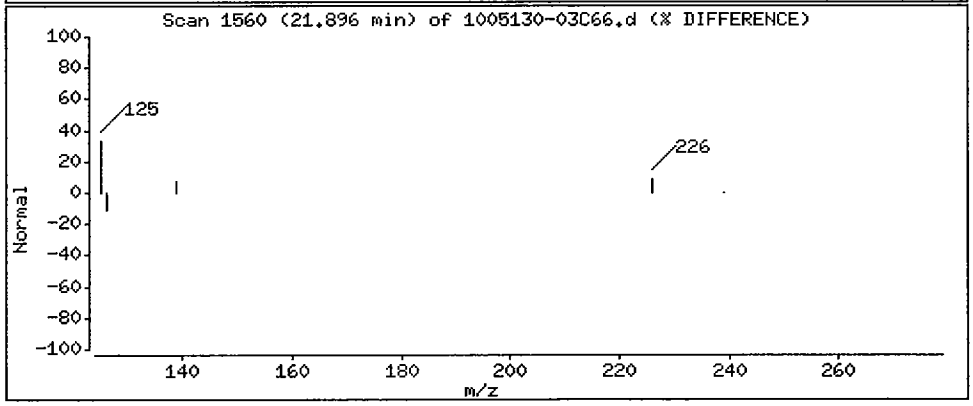












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

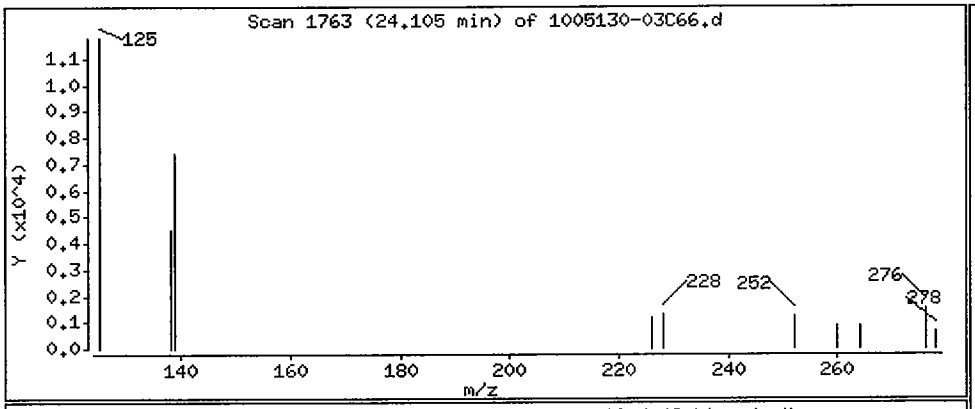
Client ID: SS24-0-1 Instrument: 5972hp66.i

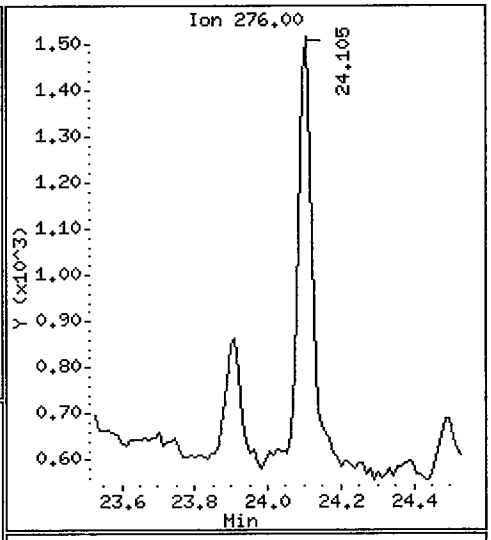
Sample Info: 1005130-03:2743

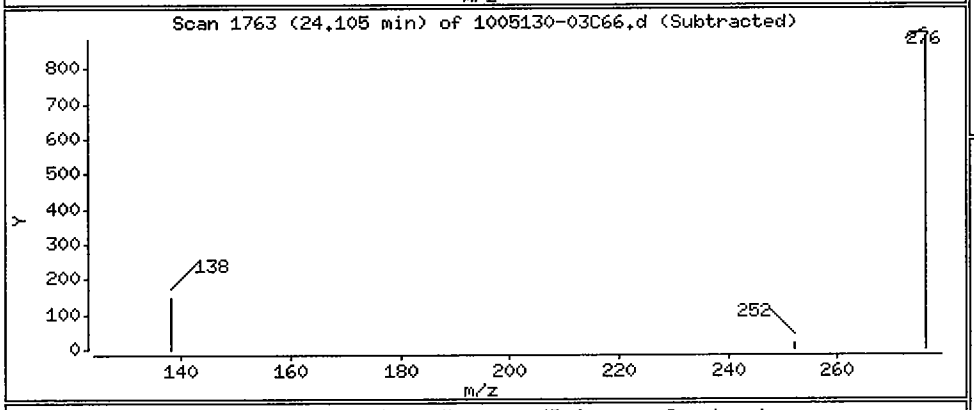
Volume Injected (uL): 2.0 Operator: 2743

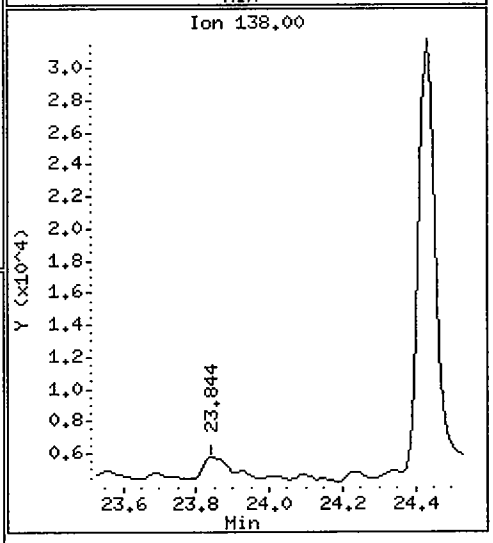
Column phase: Rtx-5MS Column diameter: 0.32

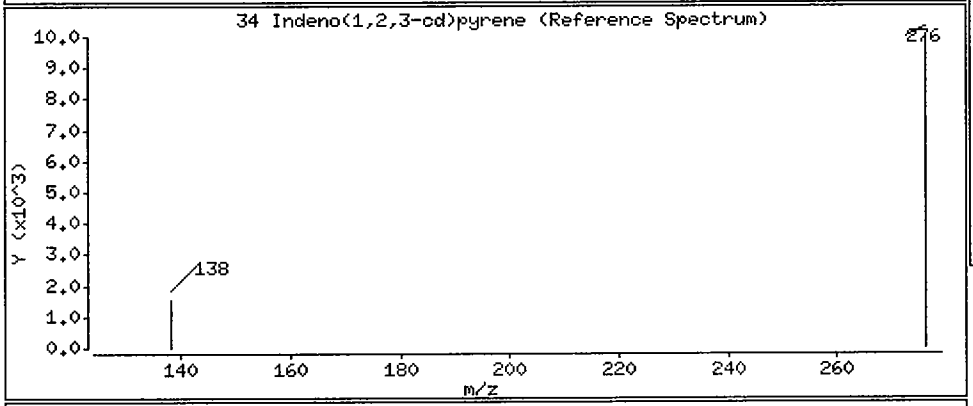
34 Indeno(1,2,3-cd)pyrene Concentration: 0.79 ug/Kg

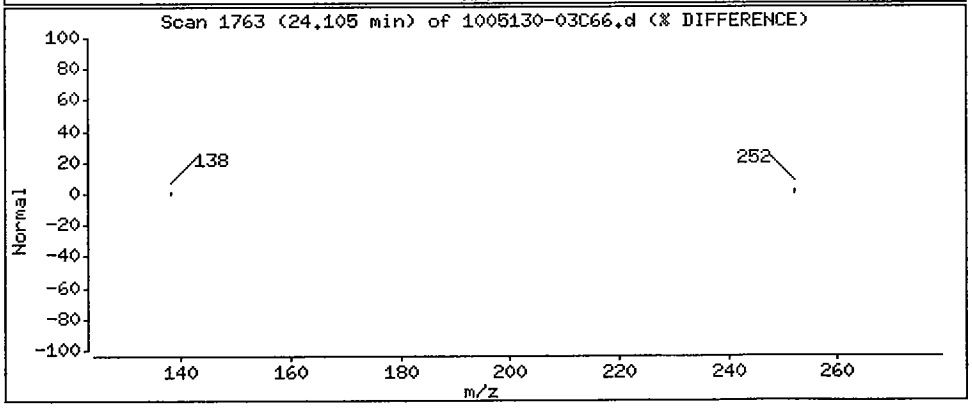












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-03C66.d

Date : 31-MAY-2010 07:33

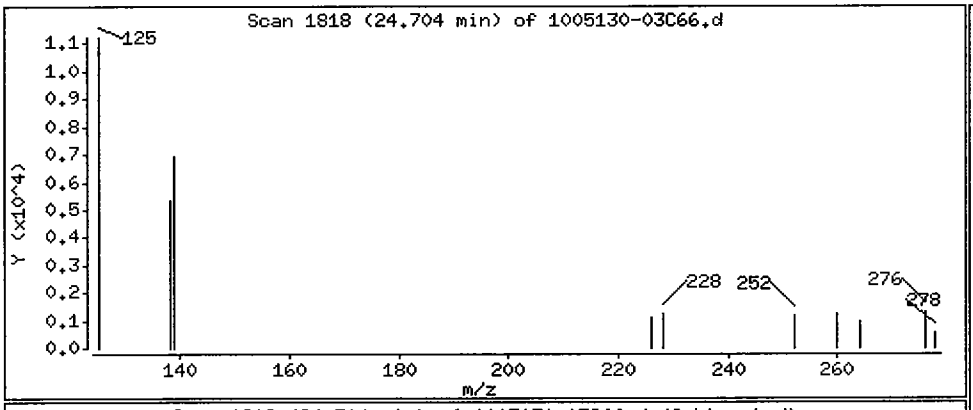
Client ID: SS24-0-1 Instrument: 5972hp66.i

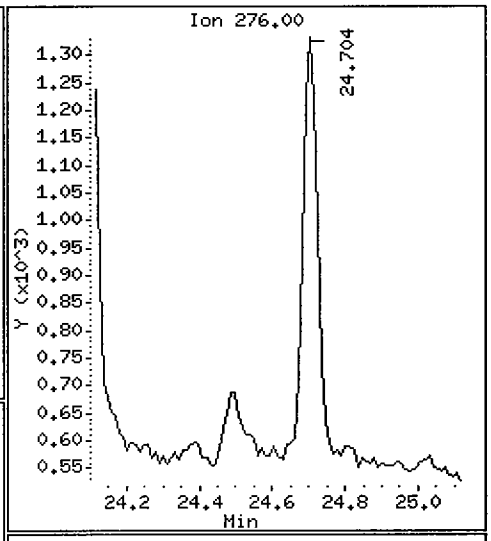
Sample Info: 1005130-03:2743

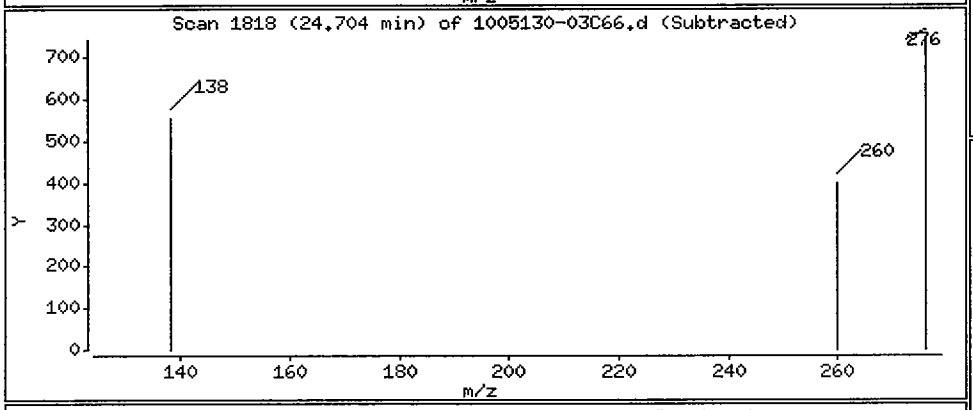
Volume Injected (uL): 2.0 Operator: 2743

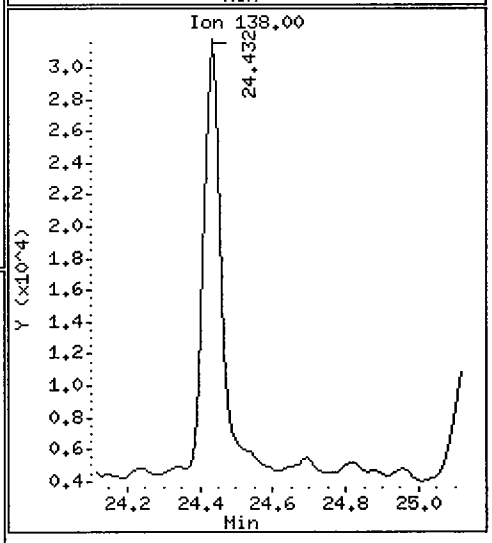
Column phase: Rtx-5MS Column diameter: 0.32

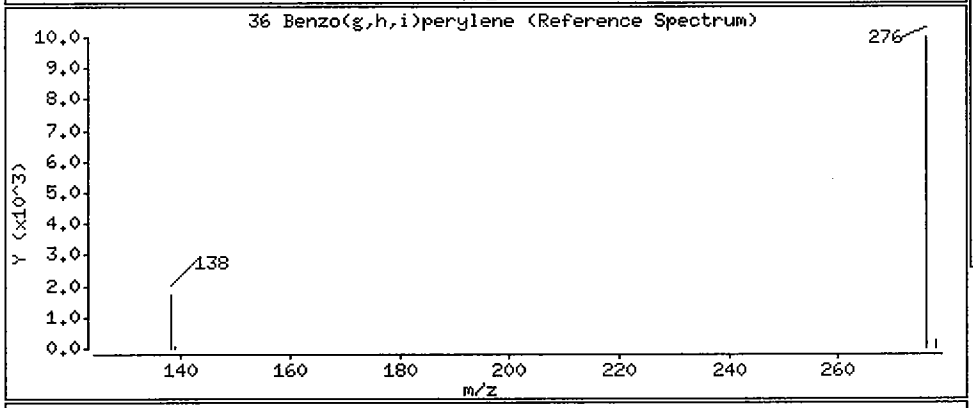
36 Benzo(g,h,i)perylene Concentration: 0.66 ug/Kg

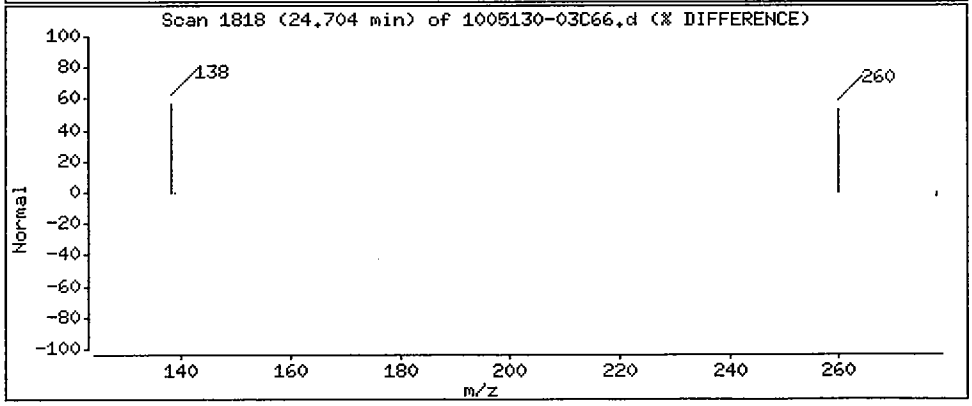












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS25-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-16
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-16C66
Analyst: 2743

% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

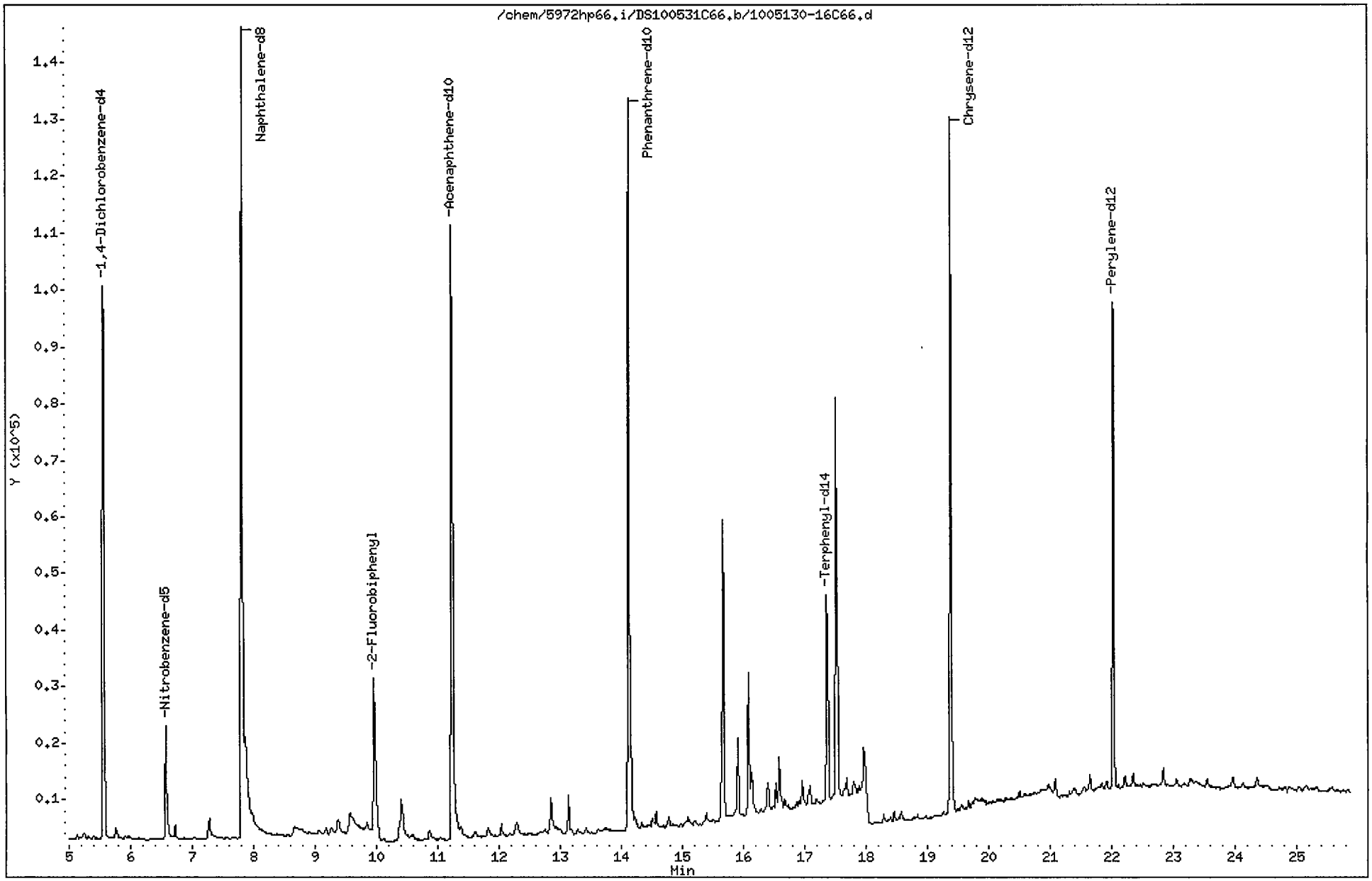
Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	ND	U
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	0.88	J
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-16C66.d
Date : 01-JUN-2010 07:47
Client ID: SS25-0-1
Instrument: 5972hp66.i
Sample Info: 1005130-16:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-16C66.d
Report Date: 24-Jun-2010 12:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-16C66.d
Lab Smp Id: 1005130-16 Client Smp ID: SS25-0-1
Inj Date : 01-JUN-2010 07:47
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-16:2743
Misc Info : SS25-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.570	5.535	(1.000)	66425	2.00000	(a)
* 2 Naphthalene-d8	136	7.812	7.790	(1.000)	244526	2.00000	(a)
* 3 Acenaphthene-d10	164	11.230	11.218	(1.000)	107637	2.00000	(a)
* 4 Phenanthrene-d10	188	14.126	14.101	(1.000)	209469	2.00000	(a)
* 5 Chrysene-d12	240	19.380	19.353	(1.000)	169249	2.00000	(a)
* 6 Perylene-d12	264	22.015	21.983	(1.000)	131685	2.00000	(a)
$ 9 Nitrobenzene-d5	82	6.573	6.552	(0.841)	25893	0.47587	8.3
$ 10 2-Fluorobiphenyl	172	9.962	9.954	(0.887)	44844	0.39925	7.0(R)
$ 12 Terphenyl-d14	244	17.372	17.347	(0.896)	48001	0.78056	14
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-16C66.d
Report Date: 24-Jun-2010 12:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.955	16.930	(0.875)	6135	0.05020	0.88(a)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-16C66.d

Date : 01-JUN-2010 07:47

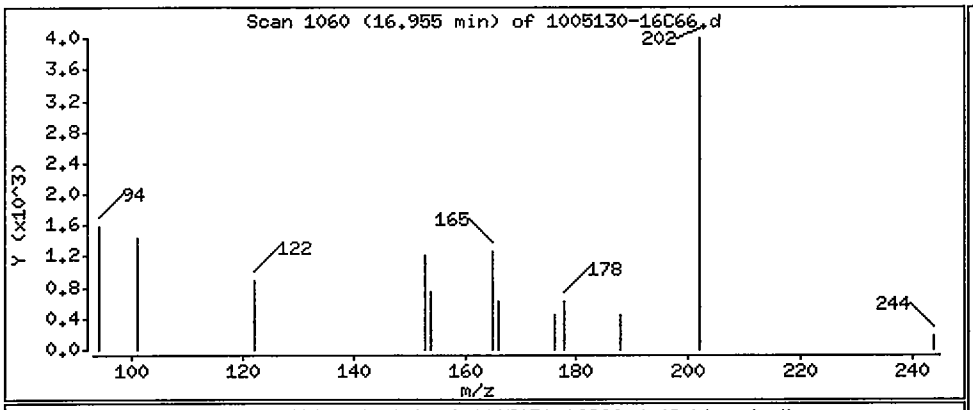
Client ID: SS25-0-1 Instrument: 5972hp66.i

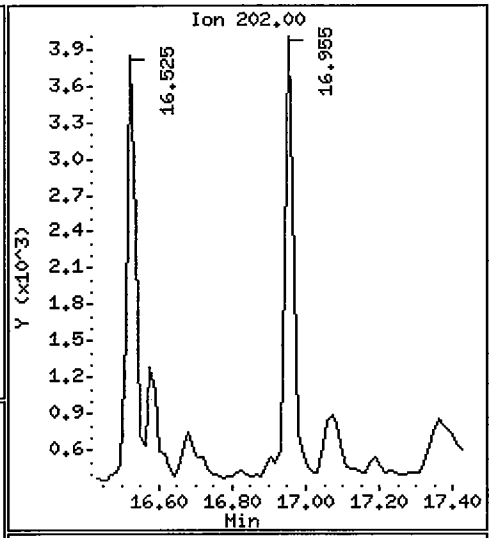
Sample Info: 1005130-16:2743

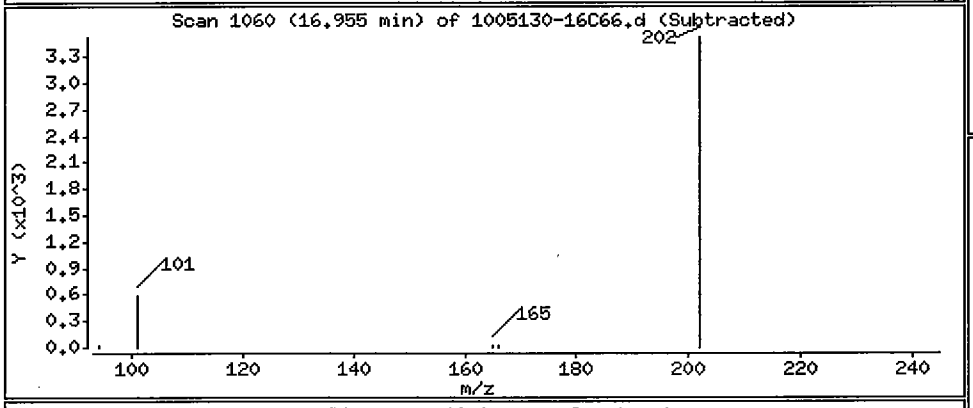
Volume Injected (uL): 2.0 Operator: 2743

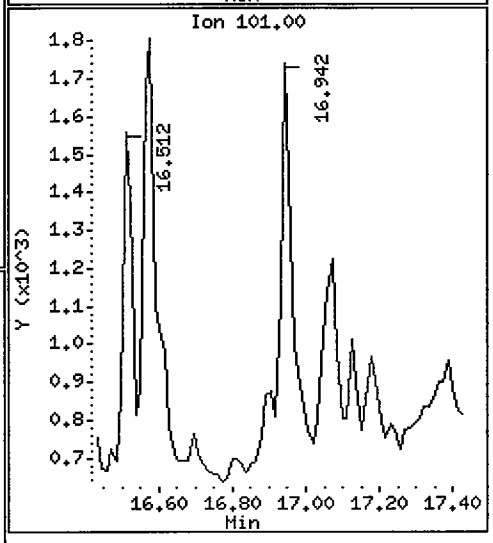
Column phase: Rtx-5MS Column diameter: 0.32

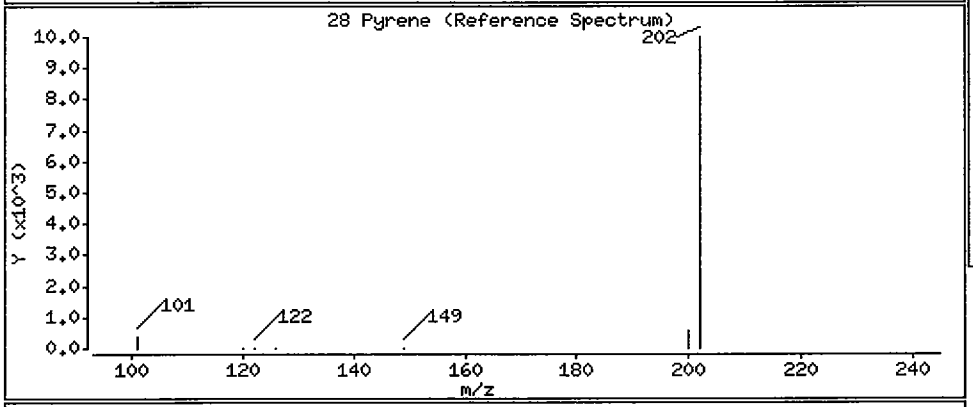
28 Pyrene Concentration: 0.88 ug/Kg

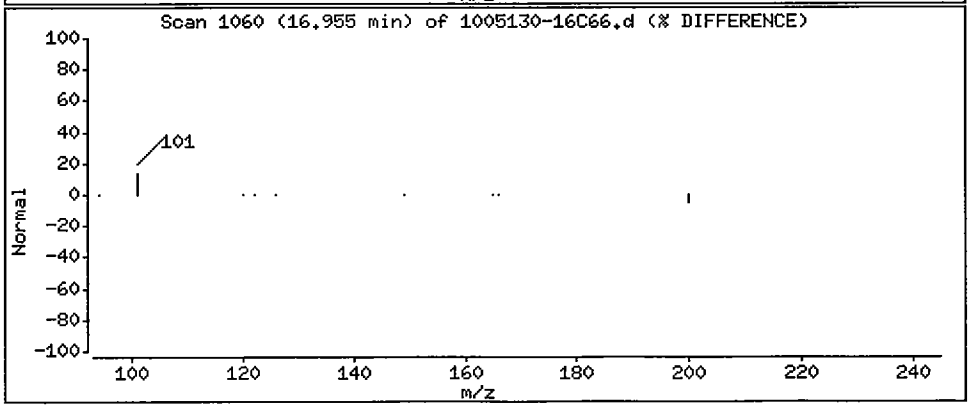












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS25-0-1RX

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-16RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-16RJA66
Analyst: MEW

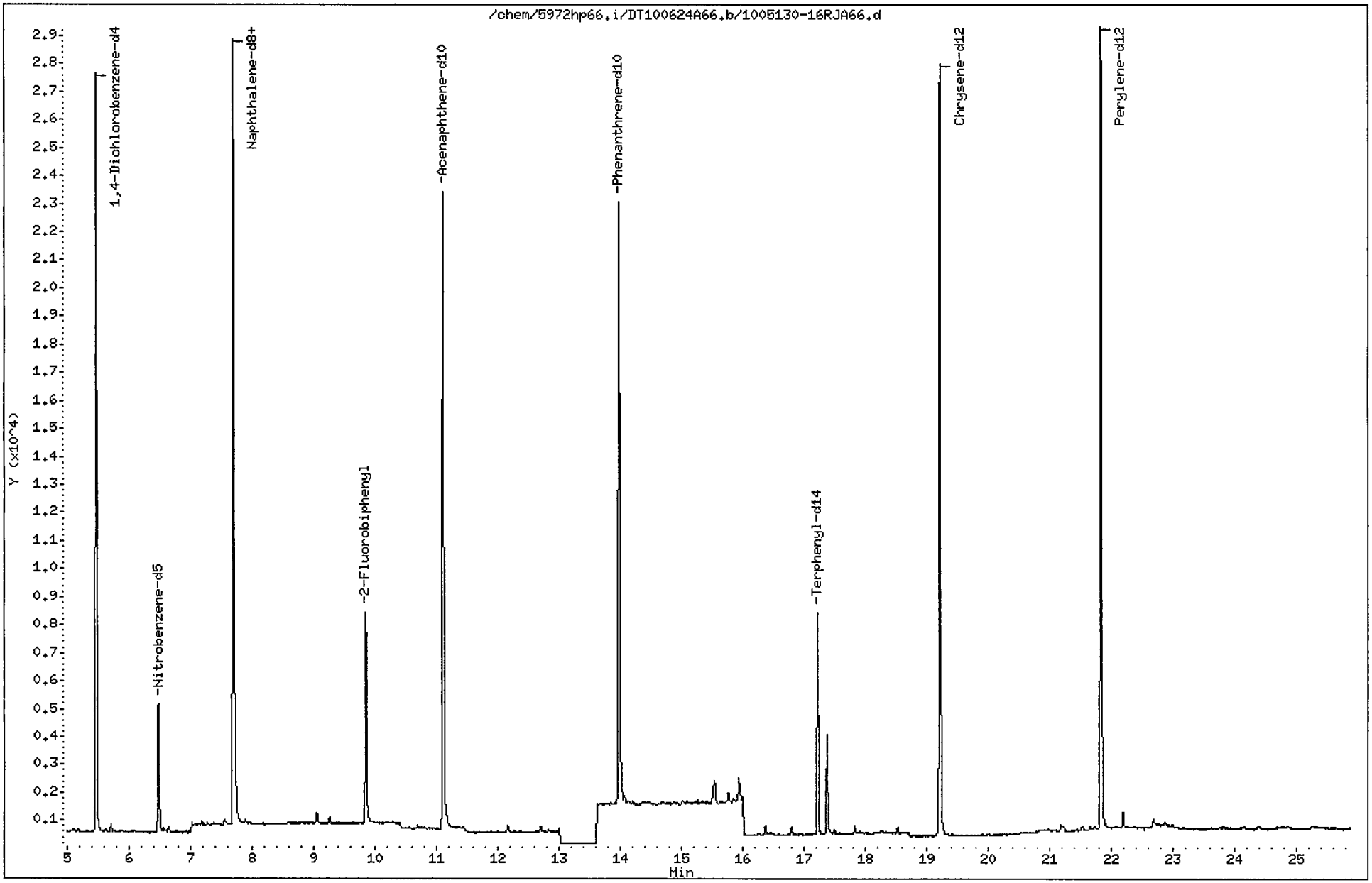
% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	1.9	JB
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-16RJA66.d
Date : 24-JUN-2010 15:48
Client ID: SS25-0-1RX
Instrument: 5972hp66.i
Sample Info: 1005130-16RE1:MEW
Volume Injected (uL): 2.0
Operator: MEW
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100624A66.b/1005130-16RJA66.d
Report Date: 25-Jun-2010 17:11

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100624A66.b/1005130-16RJA66.d
Lab Smp Id: 1005130-16RE1 Client Smp ID: SS25-0-1RX
Inj Date : 24-JUN-2010 15:48
Operator : MEW Inst ID: 5972hp66.i
Smp Info : 1005130-16RE1:MEW
Misc Info : SS25-0-1RX
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100624A66.b/SIM_8270Cv3DOD.m
Meth Date : 25-Jun-2010 17:11 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.469	5.451	(1.000)	17271	2.00000	(a)
* 2 Naphthalene-d8	136	7.693	7.694	(1.000)	43466	2.00000	(a)
* 3 Acenaphthene-d10	164	11.105	11.104	(1.000)	19973	2.00000	(a)
* 4 Phenanthrene-d10	188	13.980	13.968	(1.000)	33316	2.00000	(a)
* 5 Chrysene-d12	240	19.208	19.204	(1.000)	37152	2.00000	(a)
* 6 Perylene-d12	264	21.829	21.824	(1.000)	39366	2.00000	(a)
$ 9 Nitrobenzene-d5	82	6.479	6.461	(0.842)	5269	0.49466	8.7
$ 10 2-Fluorobiphenyl	172	9.851	9.846	(0.887)	9362	0.59201	10
$ 12 Terphenyl-d14	244	17.221	17.217	(0.897)	9573	0.82854	15
13 Naphthalene	128	7.728	7.718	(1.004)	2775	0.10936	1.9(aM)
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

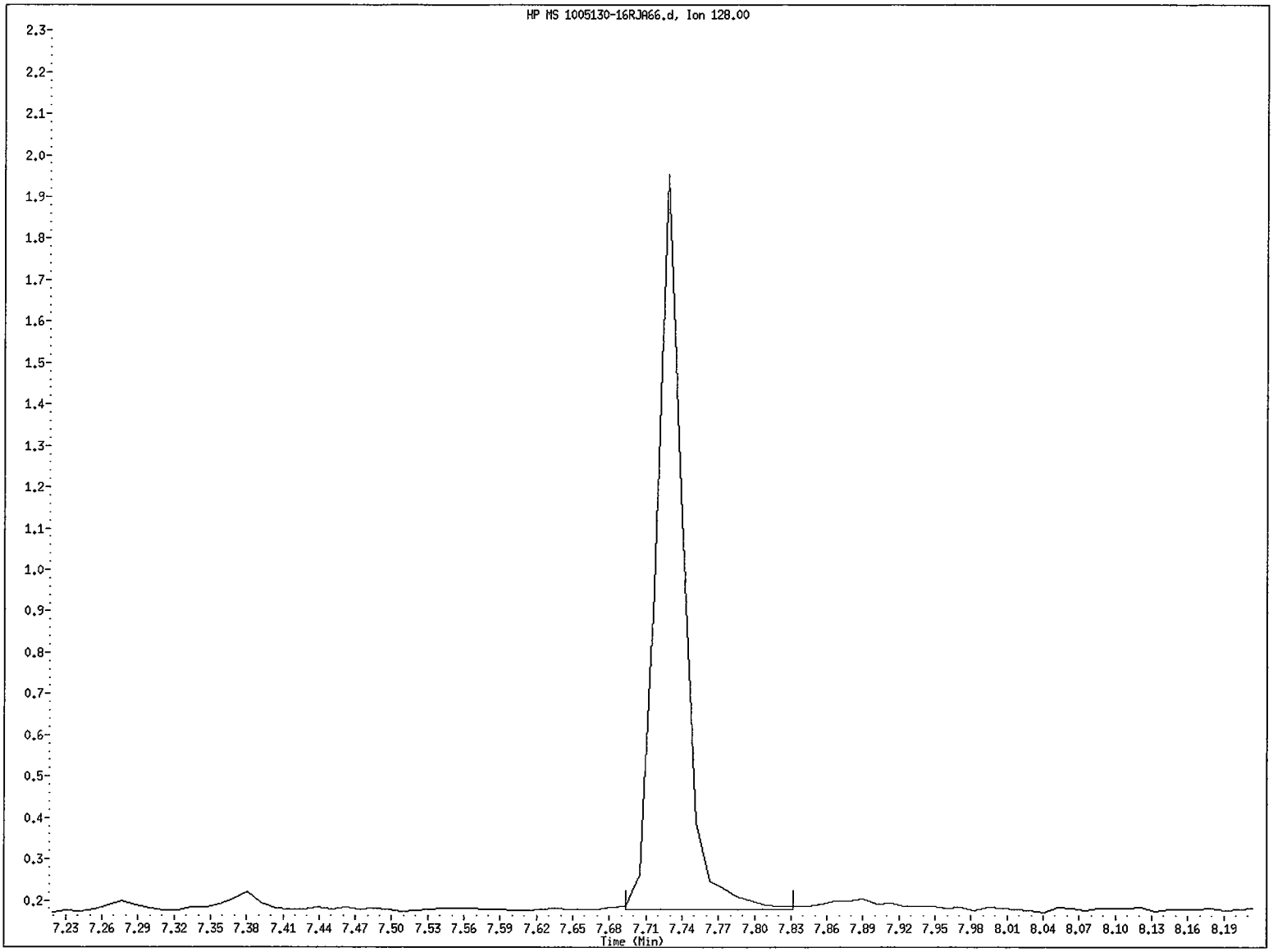
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-16RJA66.d
Report Date: 25-Jun-2010 17:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

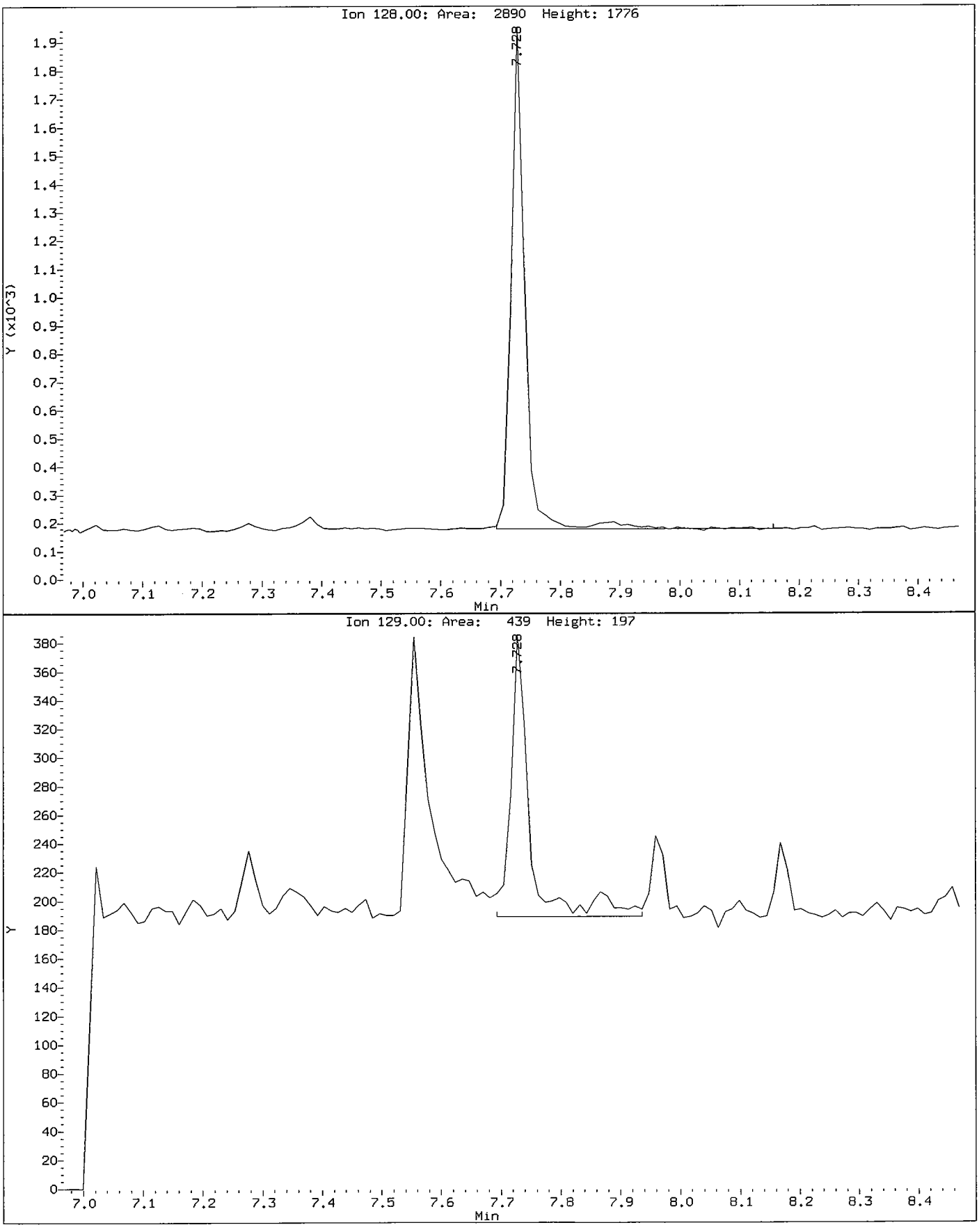
Naphthalene CAS Number 91-20-3 Area = 2775 Manually integrated



File name: /chem/5972hp66.i/DT100624A66.b/1005130-16RJA66.d
Client ID: SS25-0-1RX
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 15:48
Retention Time: 7.73
Operator ID: MEW

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-16RJA66.d
Injection Date: 24-JUN-2010 15:48
Instrument: 5972hp66.i
Client Sample ID: SS25-0-1RX

Compound: Naphthalene
CAS Number: 91-20-3



Data File: /chem/5972hp66.i/DT100624A66.b/1005130-16RJA66.d

Date : 24-JUN-2010 15:48

Client ID: SS25-0-1RX

Instrument: 5972hp66.i

Sample Info: 1005130-16RE1:MEW

Volume Injected (uL): 2.0

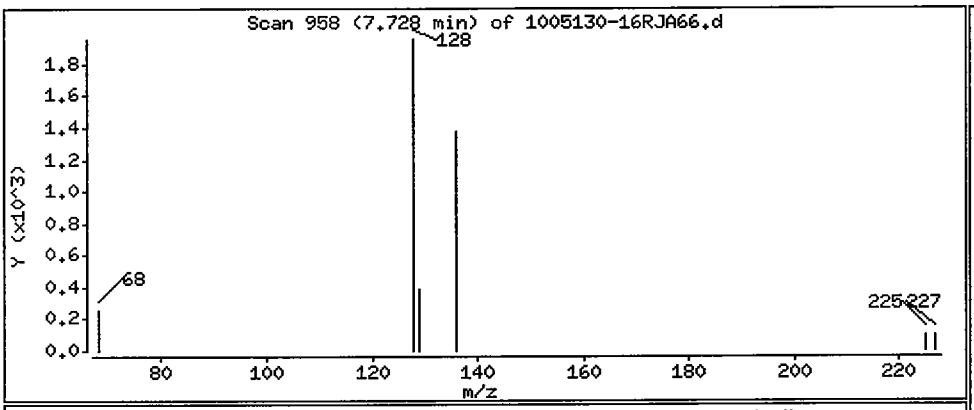
Operator: MEW

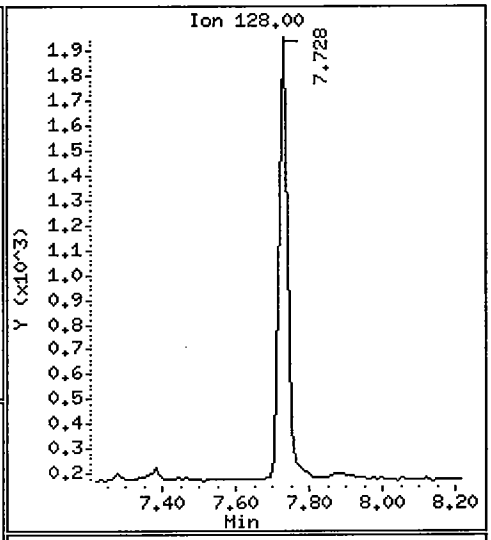
Column phase: Rtx-5MS

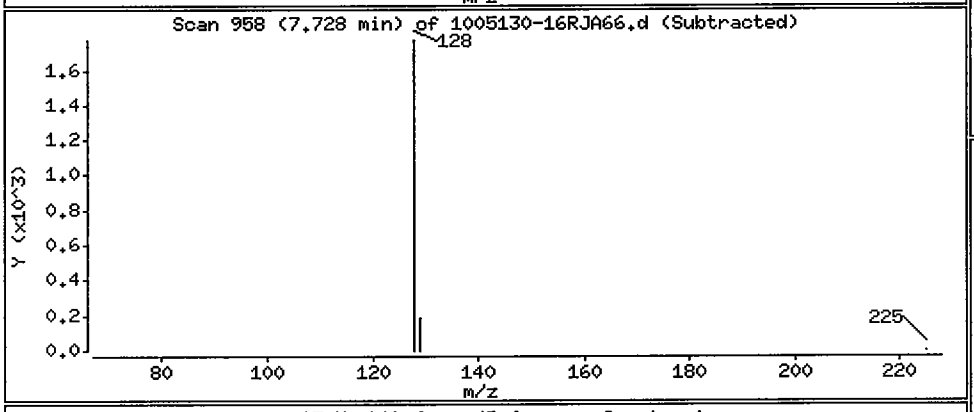
Column diameter: 0.32

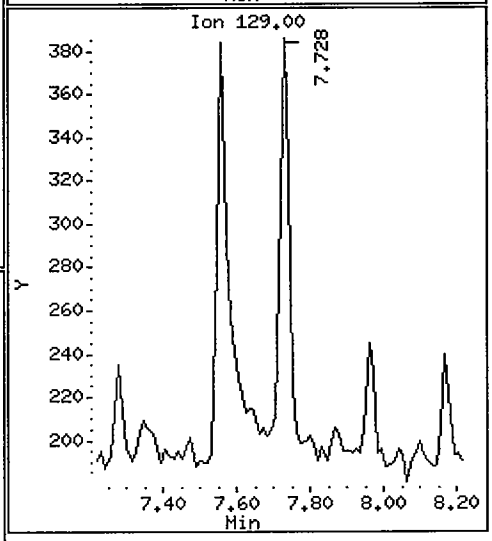
13 Naphthalene

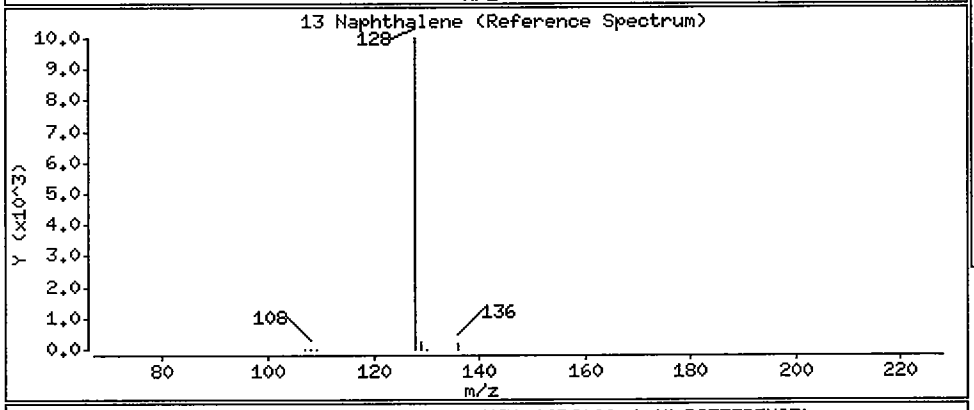
Concentration: 1.9 ug/Kg

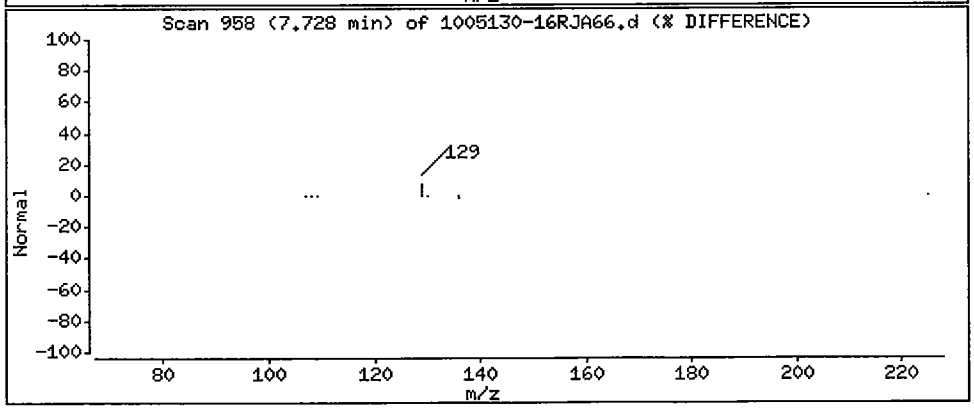












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS25-0-1RX2

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/13/10

Lab Sample ID: 1005130-16RE2
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/14/10
Lab File ID: 1005130-16RJ2A66
Analyst: MEW

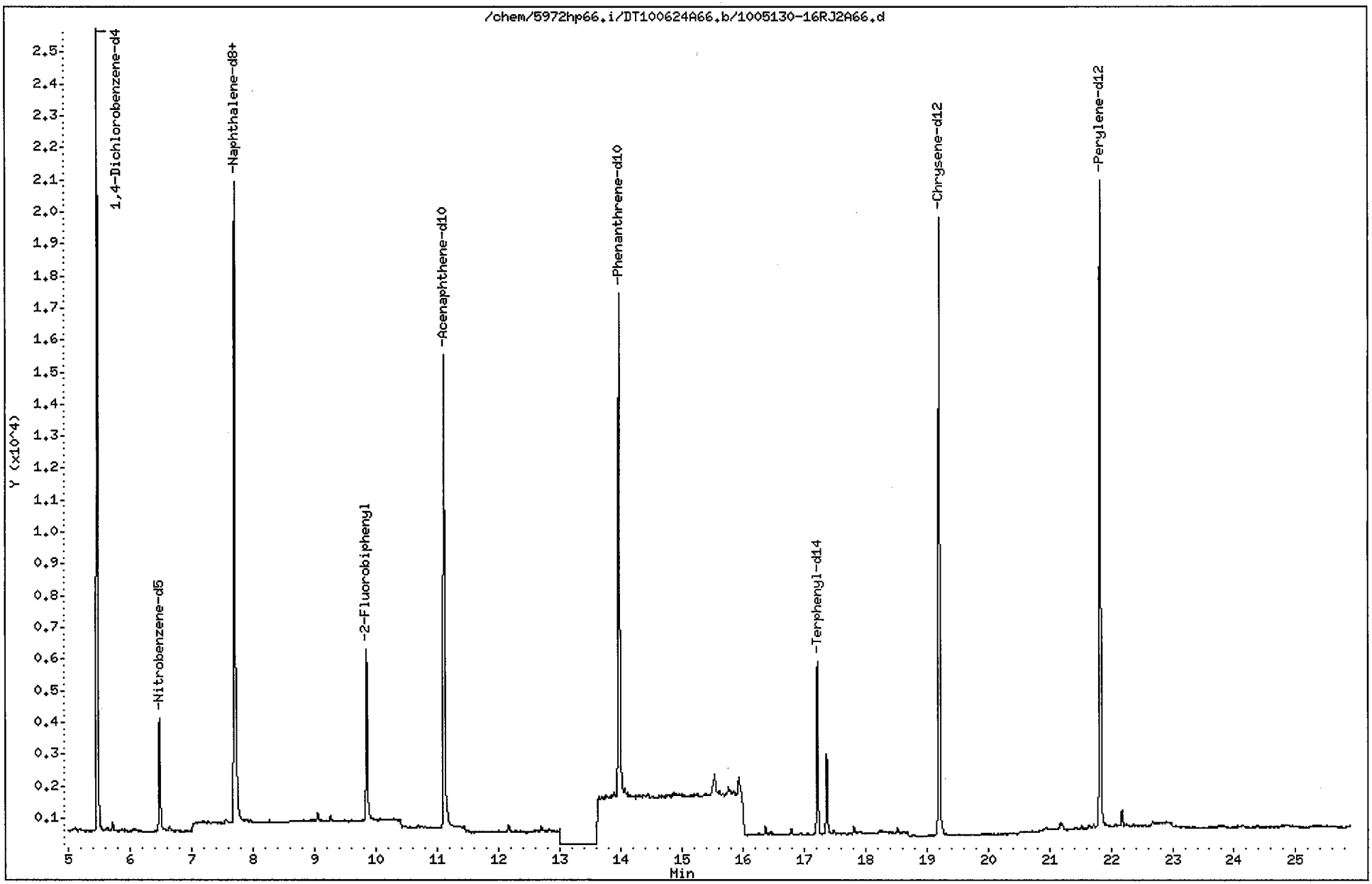
% Moisture: 5 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.75	8.7	1.9	JB
91-57-6	2-Methylnaphthalene	0.72	8.7	ND	U
208-96-8	Acenaphthylene	0.56	8.7	ND	U
83-32-9	Acenaphthene	0.63	8.7	ND	U
86-73-7	Fluorene	0.47	8.7	ND	U
85-01-8	Phenanthrene	1.4	8.7	ND	U
120-12-7	Anthracene	0.46	8.7	ND	U
206-44-0	Fluoranthene	1.4	8.7	ND	U
129-00-0	Pyrene	0.60	8.7	ND	U
56-55-3	Benzo(a)anthracene	0.60	8.7	ND	U
218-01-9	Chrysene	0.67	8.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.60	8.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.46	8.7	ND	U
50-32-8	Benzo(a)pyrene	0.40	8.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.39	8.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.35	8.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.40	8.7	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-16RJ2A66.d
Date : 24-JUN-2010 16:57
Client ID: SS25-0-1RX2
Instrument: 5972hp66.i
Sample Info: 1005130-16RE2:MEW
Volume Injected (uL): 2.0
Operator: MEW
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100624A66.b/1005130-16RJ2A66.d
Report Date: 29-Jun-2010 18:25

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100624A66.b/1005130-16RJ2A66.d
Lab Smp Id: 1005130-16RE2 Client Smp ID: SS25-0-1RX2
Inj Date : 24-JUN-2010 16:57
Operator : MEW Inst ID: 5972hp66.i
Smp Info : 1005130-16RE2:MEW
Misc Info : SS25-0-1RX2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100624A66.b/SIM_8270Cv3DOD.m
Meth Date : 25-Jun-2010 17:11 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.472	5.451	(1.000)	14976	2.00000		(a)
* 2 Naphthalene-d8	136	7.705	7.694	(1.000)	33711	2.00000		(a)
* 3 Acenaphthene-d10	164	11.117	11.104	(1.000)	14555	2.00000		(a)
* 4 Phenanthrene-d10	188	13.979	13.968	(1.000)	23328	2.00000		(a)
* 5 Chrysene-d12	240	19.208	19.204	(1.000)	27064	2.00000		(a)
* 6 Perylene-d12	264	21.828	21.824	(1.000)	28088	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.482	6.461	(0.841)	4264	0.51614	9.1	
$ 10 2-Fluorobiphenyl	172	9.855	9.846	(0.887)	6983	0.60595	11	
$ 12 Terphenyl-d14	244	17.221	17.217	(0.897)	6803	0.80827	14	
13 Naphthalene	128	7.728	7.718	(1.003)	2127	0.10807	1.9	(aM)
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

2

RW 6/29/10

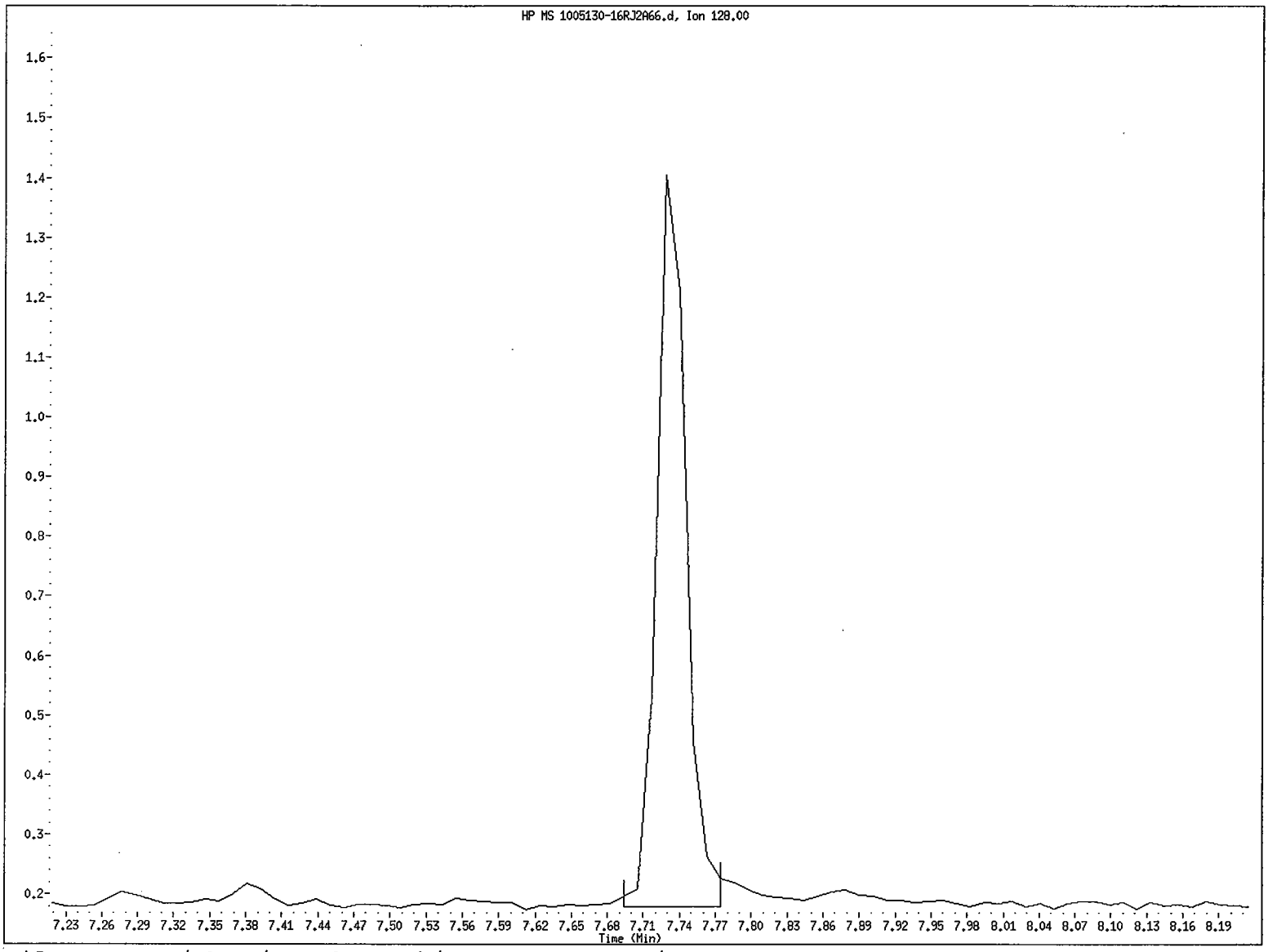
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-16RJ2A66.d
Report Date: 29-Jun-2010 18:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Naphthalene CAS Number 91-20-3 Area = 2127 Manually integrated



File name: /chem/5972hp66.i/DT100624A66.b/1005130-16RJ2A66.d
Client ID: SS25-0-1RX2
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 16:57
Retention Time: 7.73
Operator ID: MEW

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-16RJ2A66.d

Date : 24-JUN-2010 16:57

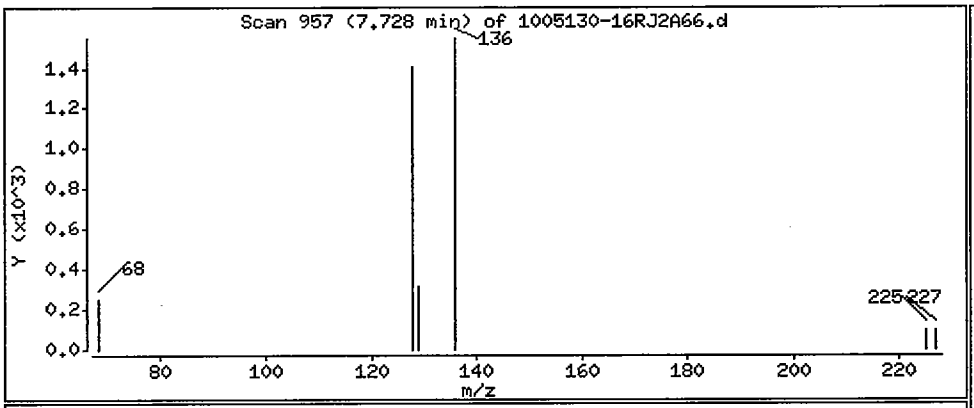
Client ID: SS25-0-1RX2 Instrument: 5972hp66.i

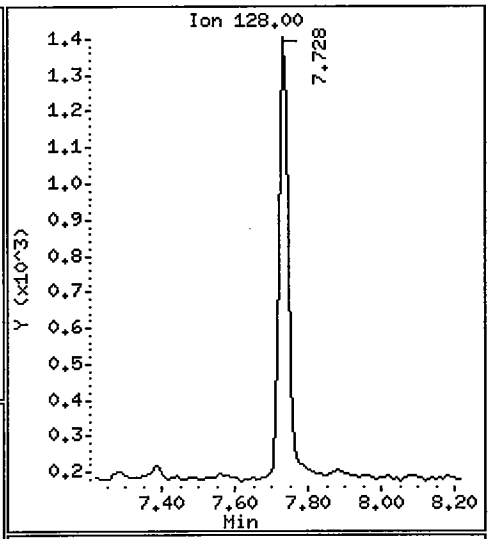
Sample Info: 1005130-16RE2:MEW

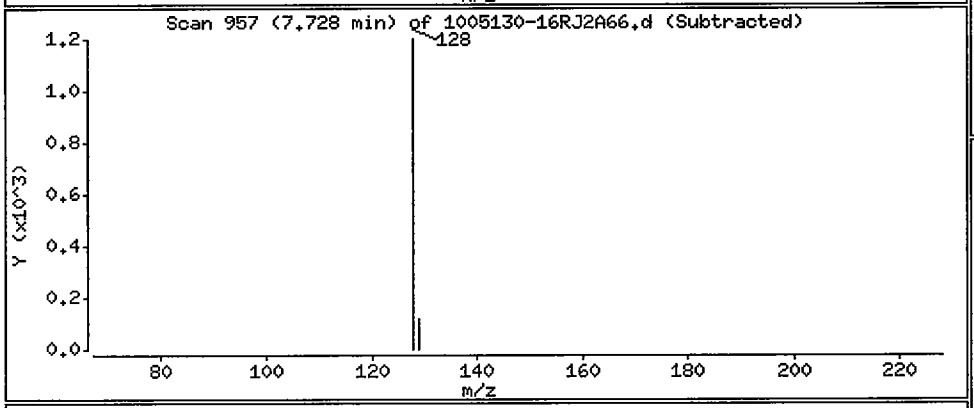
Volume Injected (uL): 2.0 Operator: MEW

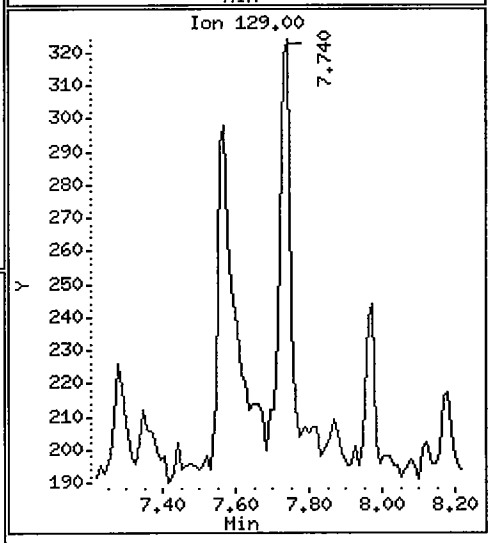
Column phase: Rtx-5MS Column diameter: 0.32

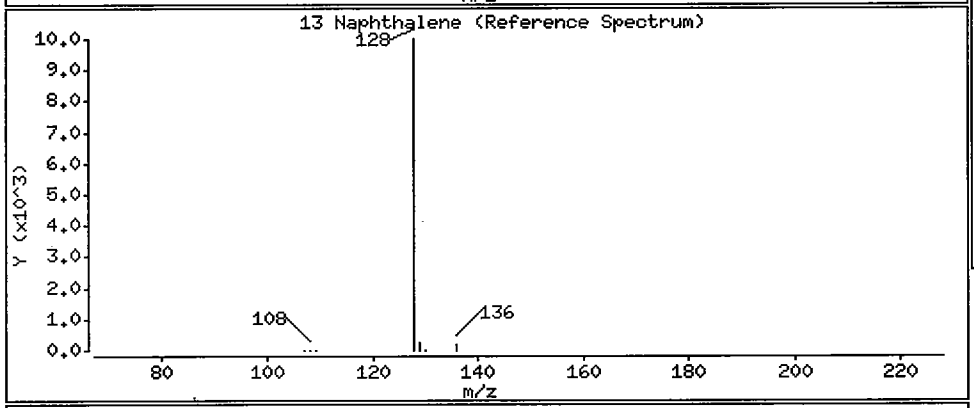
13 Naphthalene Concentration: 1.9 ug/Kg

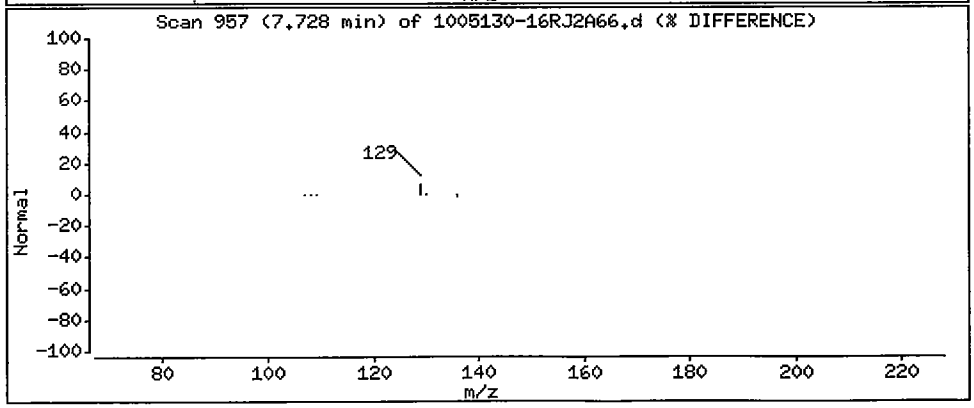












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS47-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-09
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-09C66
Analyst: 2743

% Moisture: 20 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

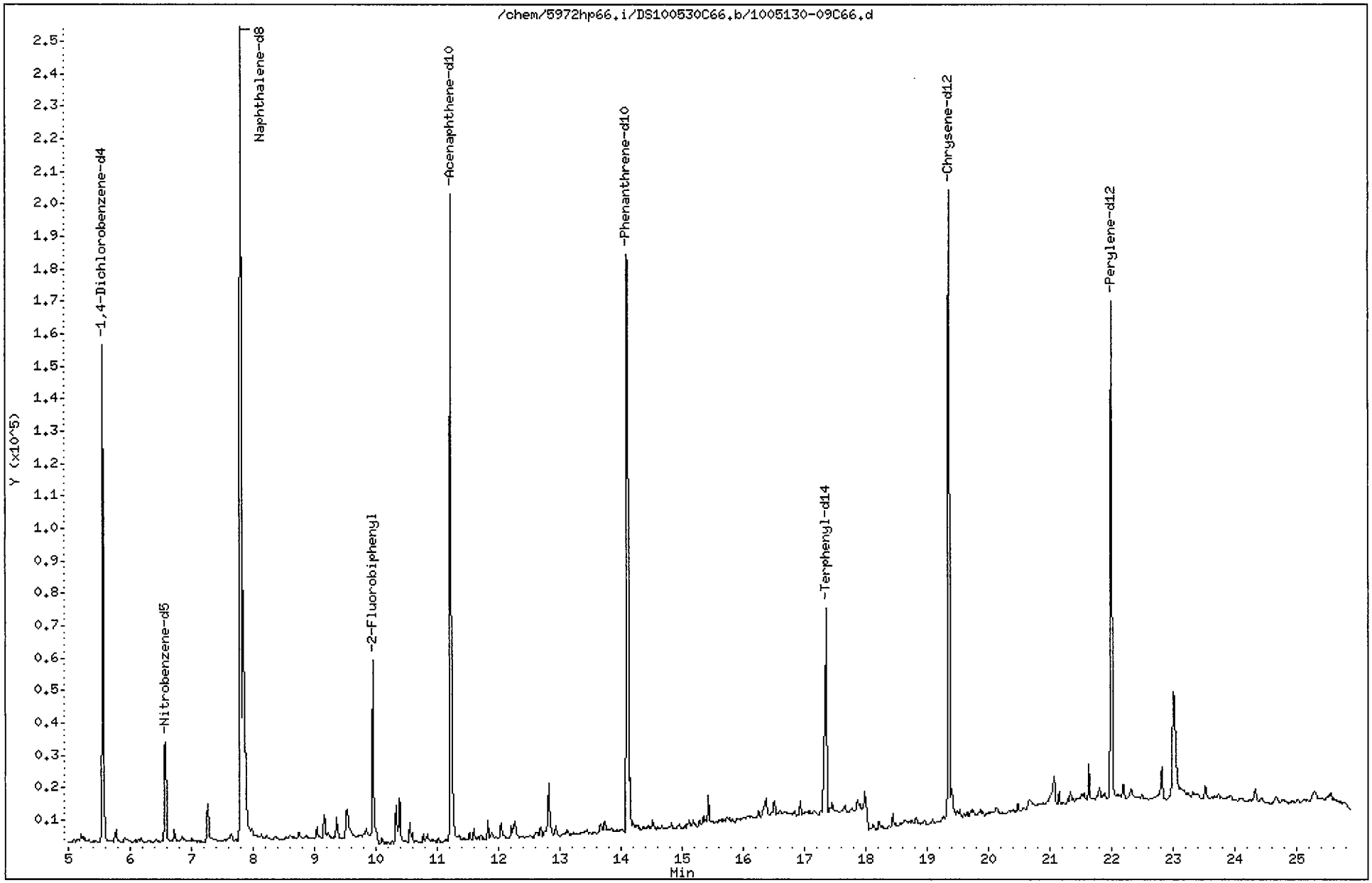
Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.90	10	ND	U
91-57-6	2-Methylnaphthalene	0.85	10	1.0	J
208-96-8	Acenaphthylene	0.67	10	ND	U
83-32-9	Acenaphthene	0.75	10	ND	U
86-73-7	Fluorene	0.56	10	ND	U
85-01-8	Phenanthrene	1.6	10	2.1	J
120-12-7	Anthracene	0.54	10	ND	U
206-44-0	Fluoranthene	1.7	10	ND	U
129-00-0	Pyrene	0.71	10	0.74	J
56-55-3	Benzo(a)anthracene	0.71	10	ND	U
218-01-9	Chrysene	0.79	10	1.2	J
205-99-2	Benzo(b)fluoranthene	0.71	10	0.85	J
207-08-9	Benzo(k)fluoranthene	0.54	10	ND	U
50-32-8	Benzo(a)pyrene	0.48	10	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.46	10	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.42	10	ND	U
191-24-2	Benzo(g,h,i)perylene	0.48	10	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d
Date : 31-MAY-2010 10:22
Client ID: SS47-0-1
Instrument: 5972hp66.i
Sample Info: 1005130-09:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d
Report Date: 02-Jun-2010 11:57

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d
Lab Smp Id: 1005130-09 Client Smp ID: SS47-0-1
Inj Date : 31-MAY-2010 10:22
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-09:2743
Misc Info : SS47-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:55 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	20.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.560	5.543	(1.000)	90528	2.00000	
* 2 Naphthalene-d8	136	7.802	7.785	(1.000)	346220	2.00000	
* 3 Acenaphthene-d10	164	11.218	11.206	(1.000)	155514	2.00000	
* 4 Phenanthrene-d10	188	14.113	14.087	(1.000)	293533	2.00000	
* 5 Chrysene-d12	240	19.353	19.336	(1.000)	246938	2.00000	
* 6 Perylene-d12	264	21.995	21.960	(1.000)	205217	2.00000	
$ 9 Nitrobenzene-d5	82	6.576	6.547	(0.843)	41021	0.53246	11
$ 10 2-Fluorobiphenyl	172	9.952	9.936	(0.887)	75972	0.46815	9.8
$ 12 Terphenyl-d14	244	17.346	17.334	(0.896)	76386	0.85135	18
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	9.157	9.141	(0.816)	5341	0.04797	1.00(aM)
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d
Report Date: 02-Jun-2010 11:57

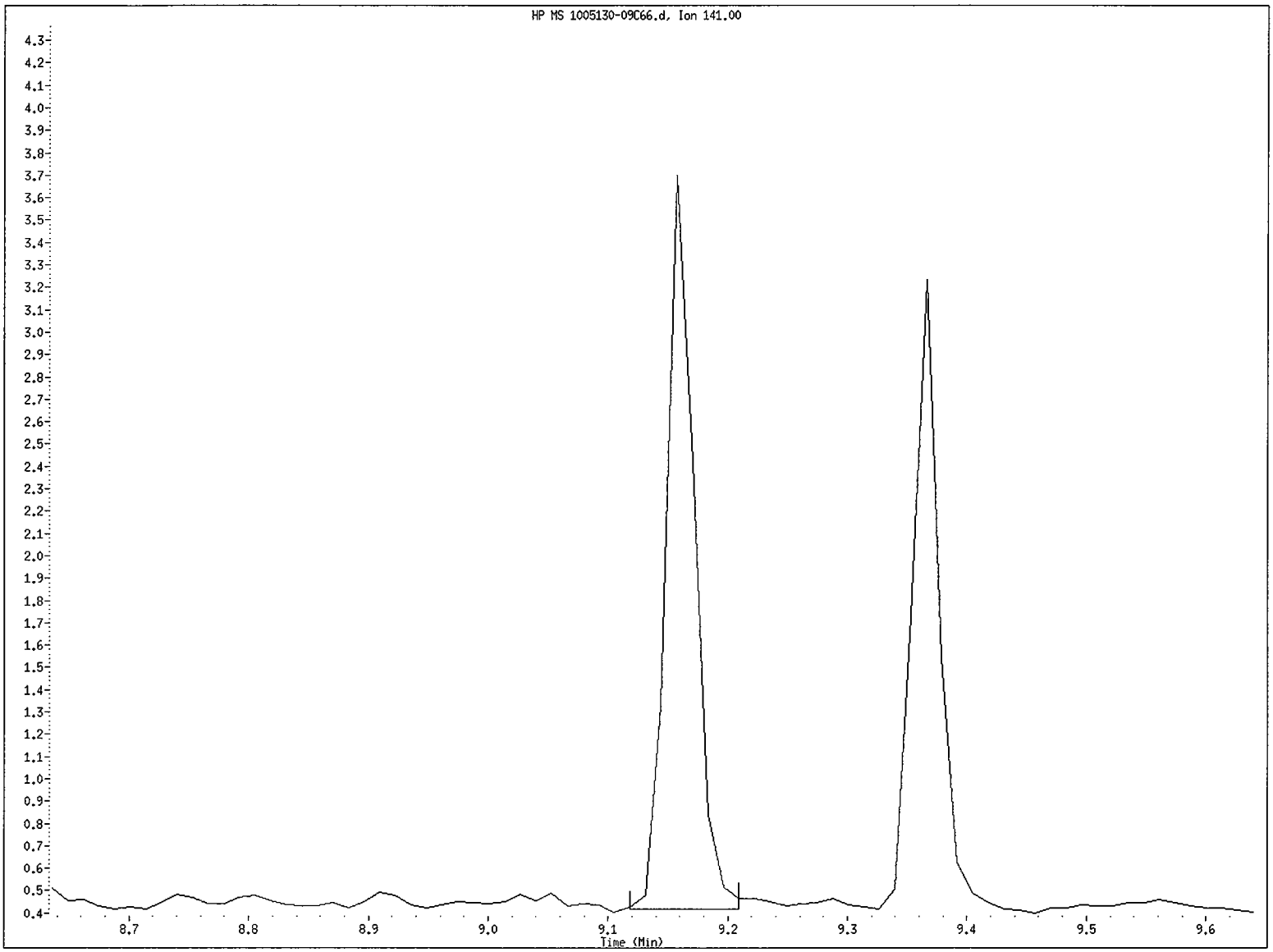
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.152	14.126	(1.003)	18770	0.10255	2.1(a)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.929	16.917	(0.875)	6371	0.03573	0.74(a)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	19.397	19.380	(1.002)	8611	0.05922	1.2(a)
31 Benzo(b)fluoranthene	252	21.341	21.318	(0.970)	5511	0.04072	0.85(aM)
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

~ 0.6/1.2

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

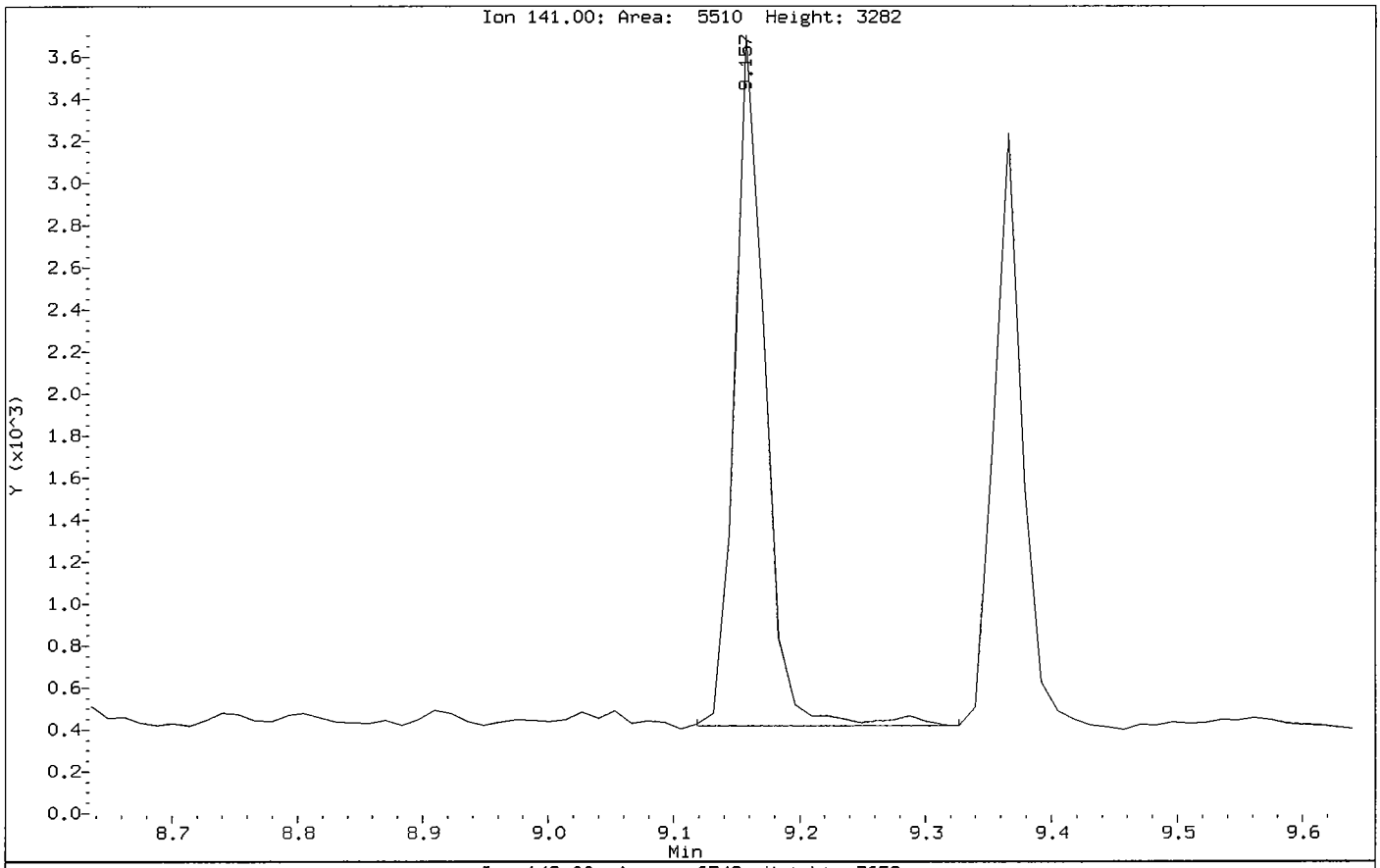
2-Methylnaphthalene CAS Number 91-57-6 Area = 5341 Manually integrated

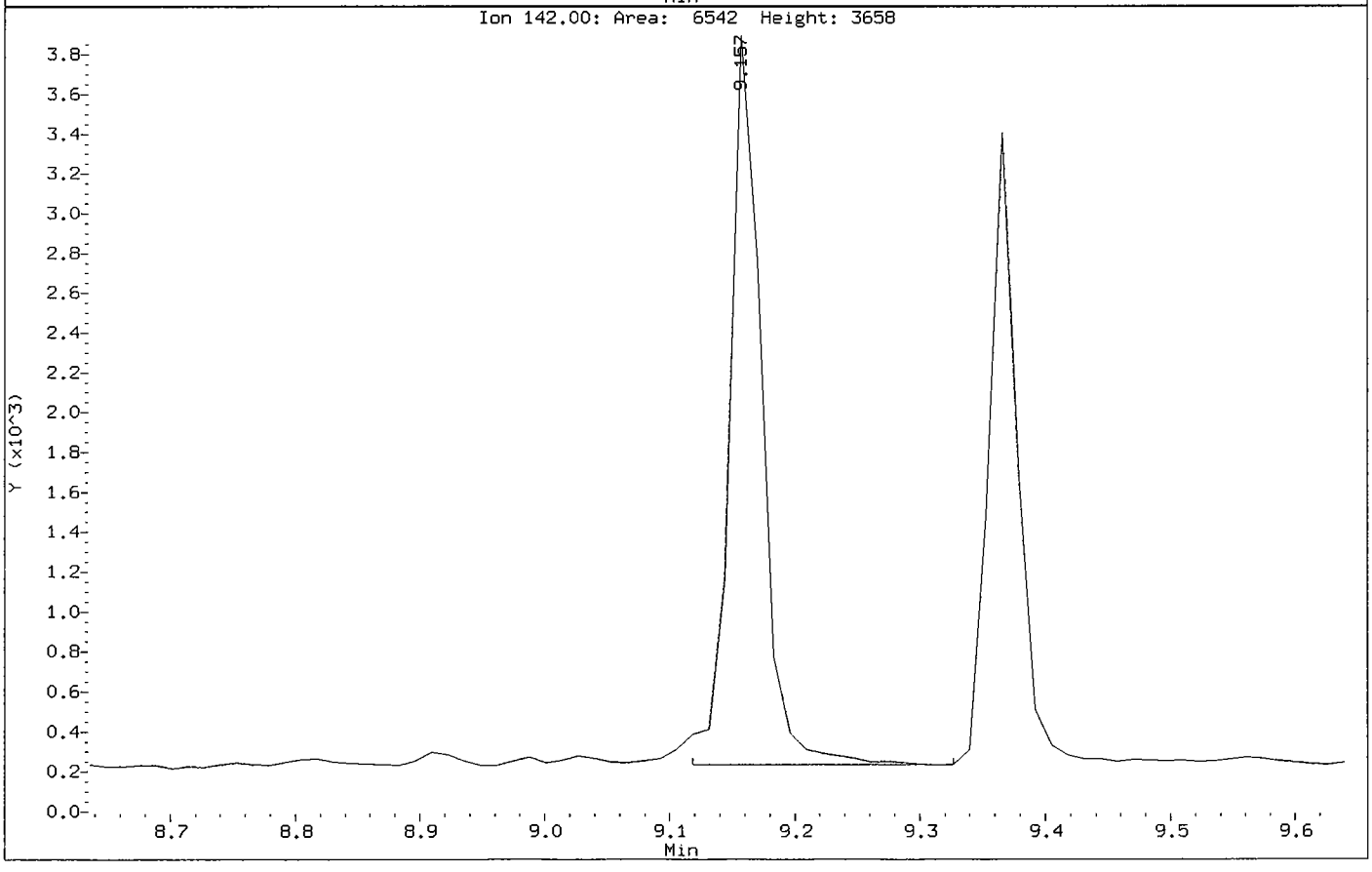


File name: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d
Client ID: SS47-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 10:22
Retention Time: 9.16
Operator ID: 2743

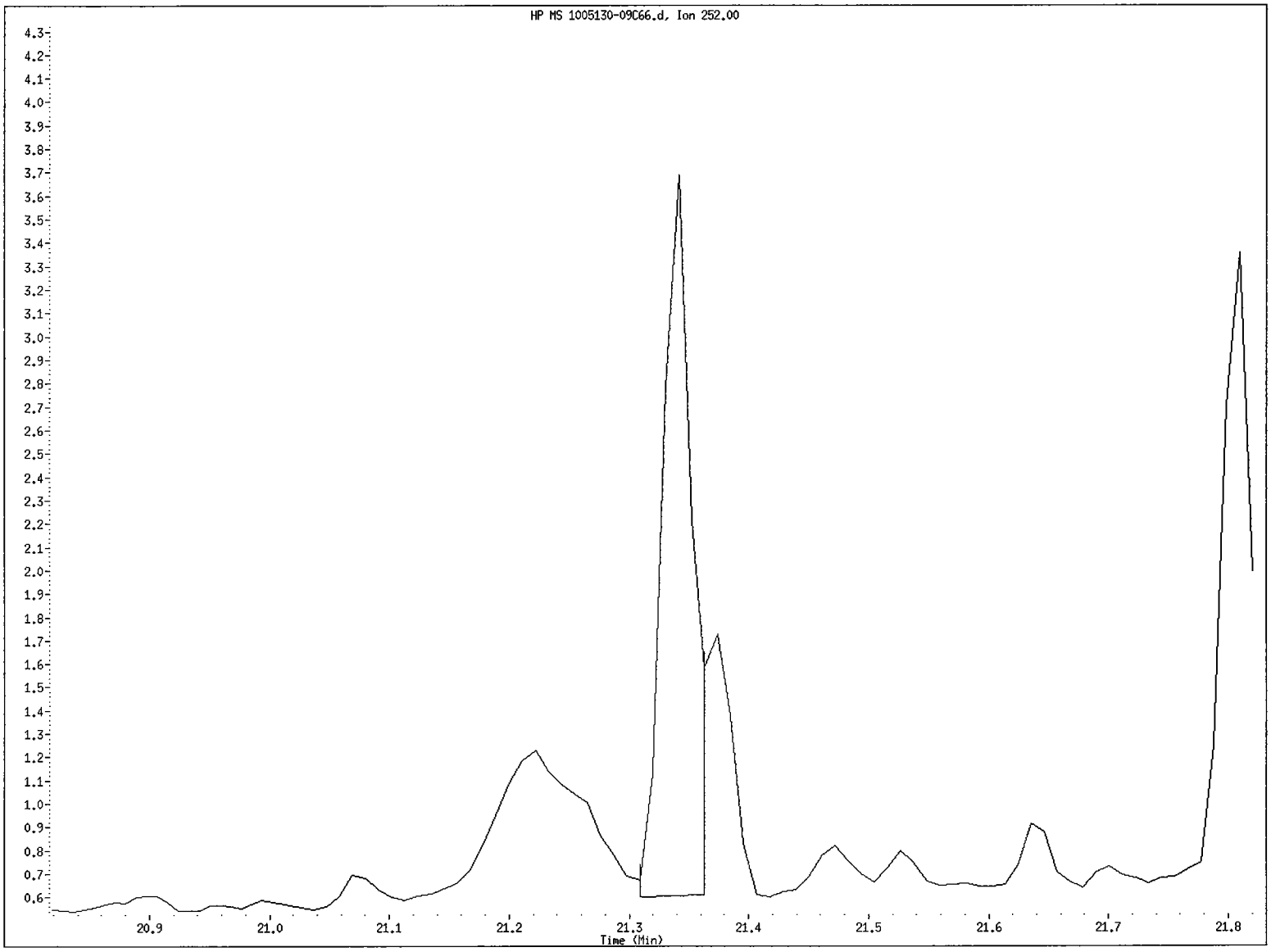
Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d
Injection Date: 31-MAY-2010 10:22
Instrument: 5972hp66.i
Client Sample ID: SS47-0-1

Compound: 2-Methylnaphthalene
CAS Number: 91-57-6





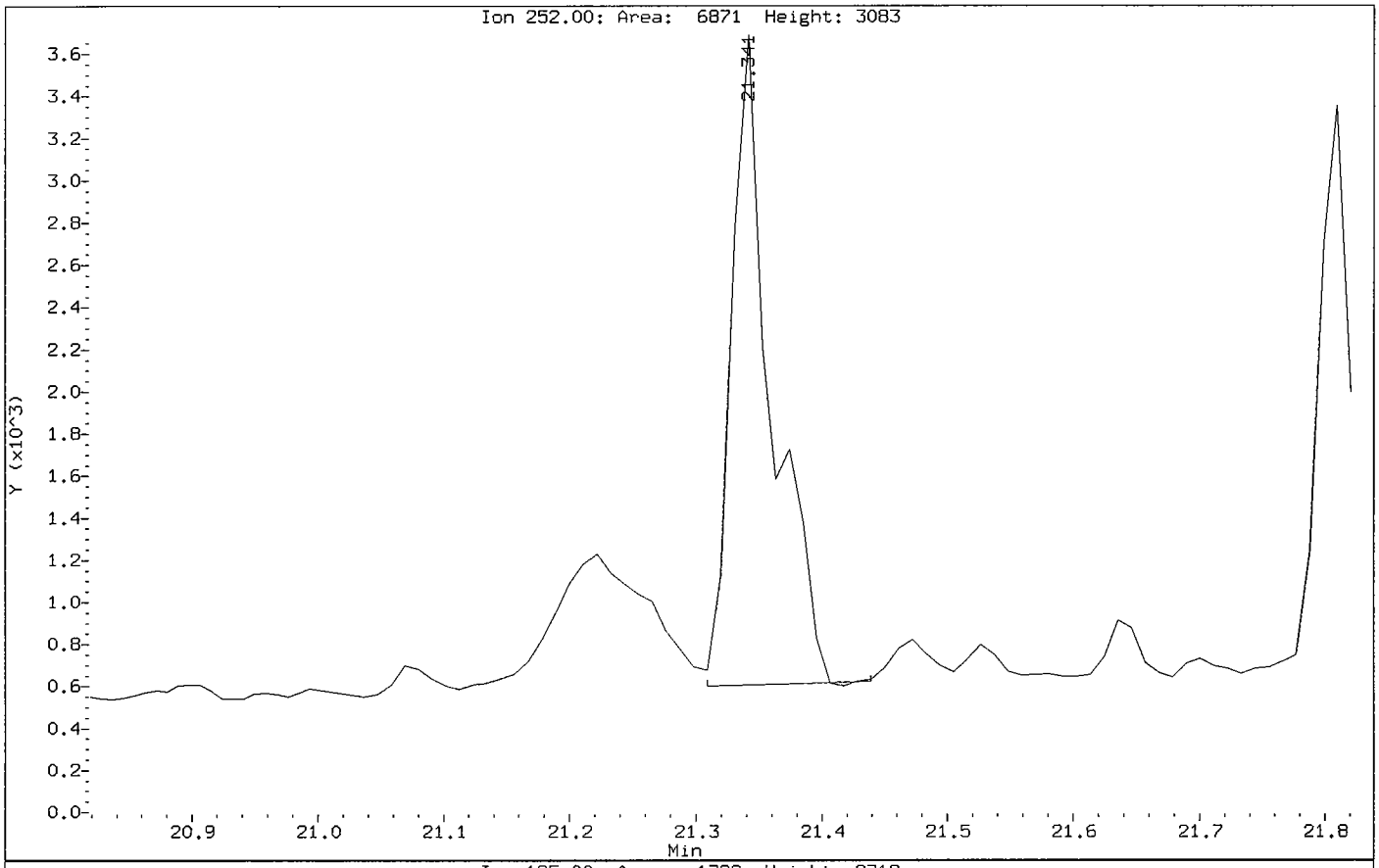
Benzo(b)fluoranthene CAS Number 205-99-2 Area = 5511 Manually integrated

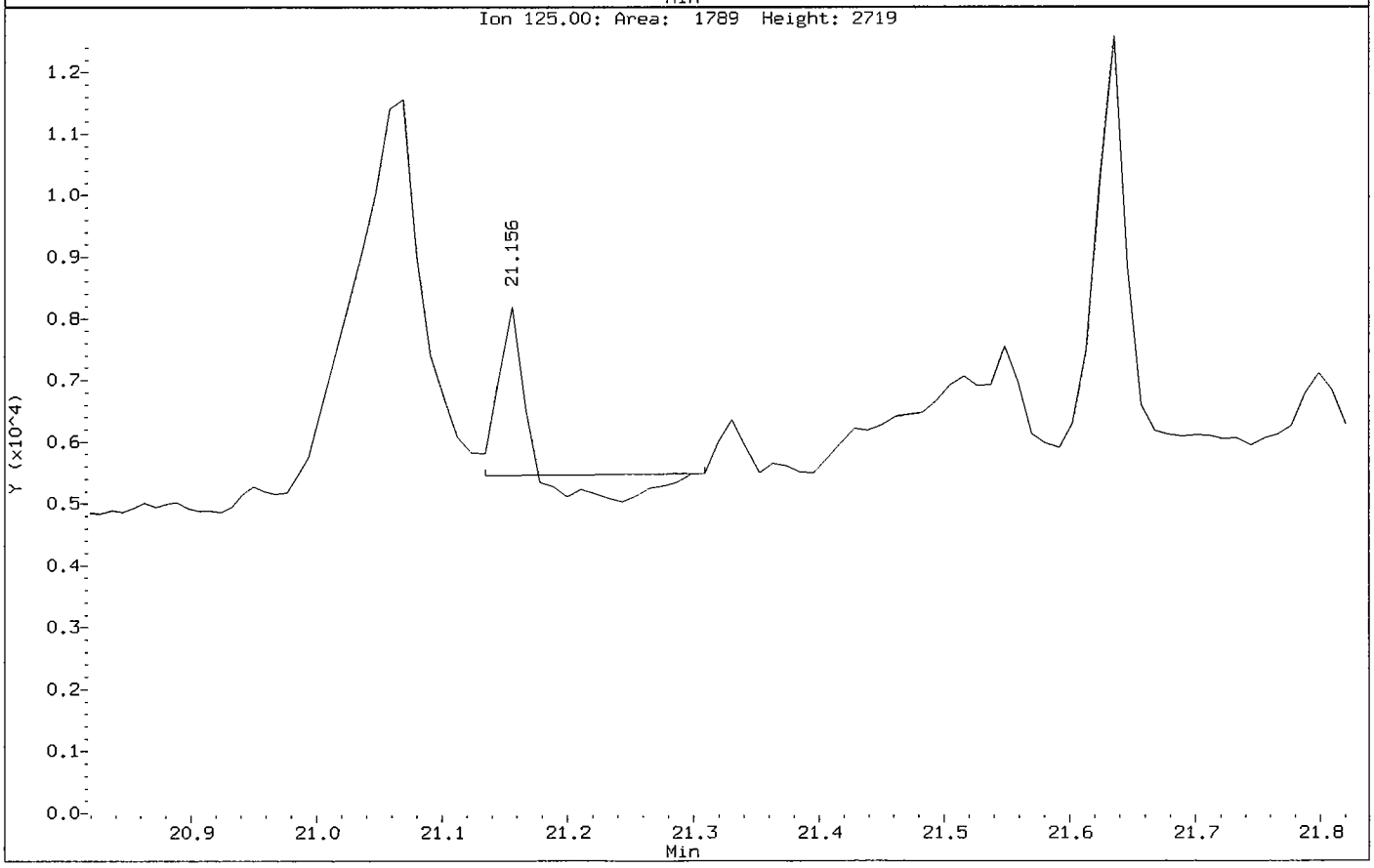


File name: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d
Client ID: SS47-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 10:22
Retention Time: 21.34
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d
Injection Date: 31-MAY-2010 10:22
Instrument: 5972hp66.i
Client Sample ID: SS47-0-1

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d

Date : 31-MAY-2010 10:22

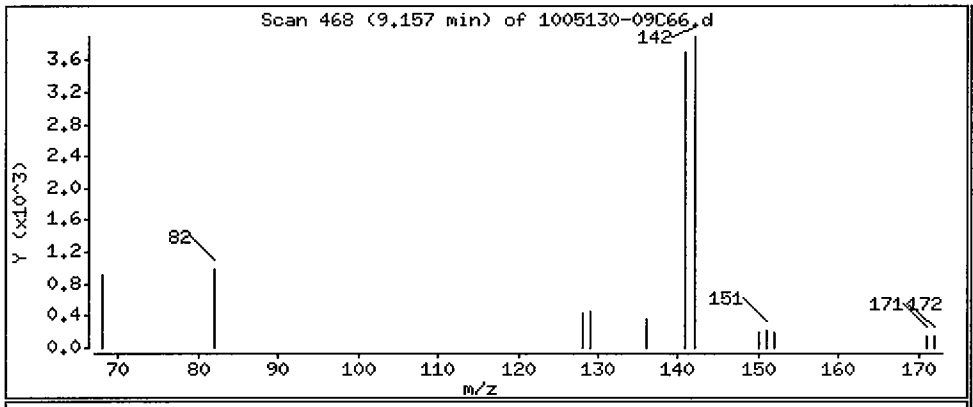
Client ID: SS47-0-1 Instrument: 5972hp66.i

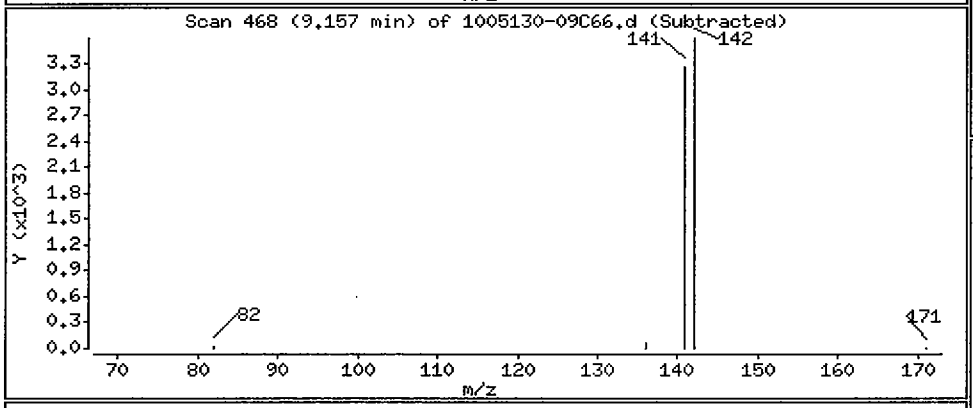
Sample Info: 1005130-09:2743

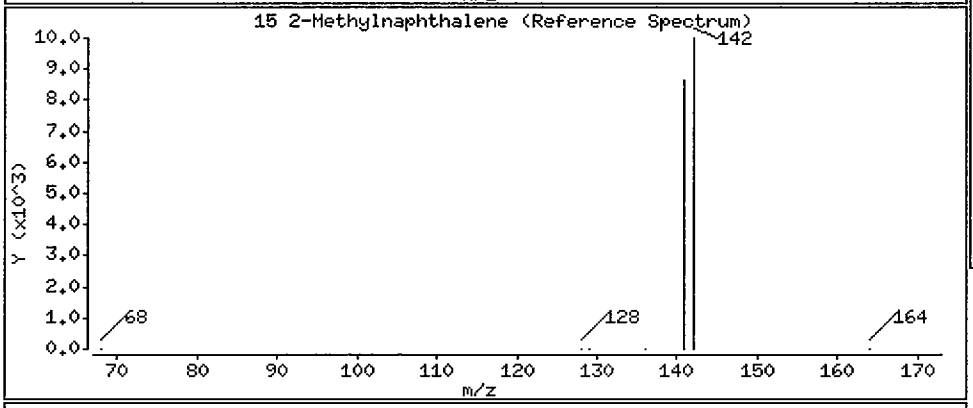
Volume Injected (uL): 2.0 Operator: 2743

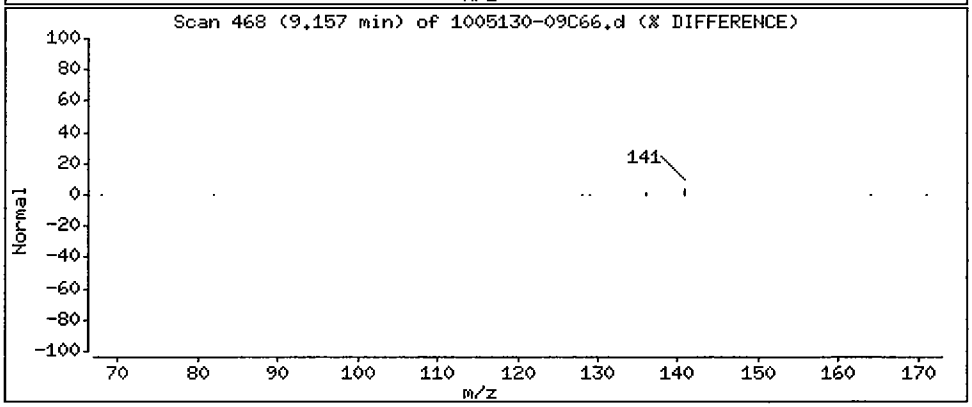
Column phase: Rtx-5MS Column diameter: 0.32

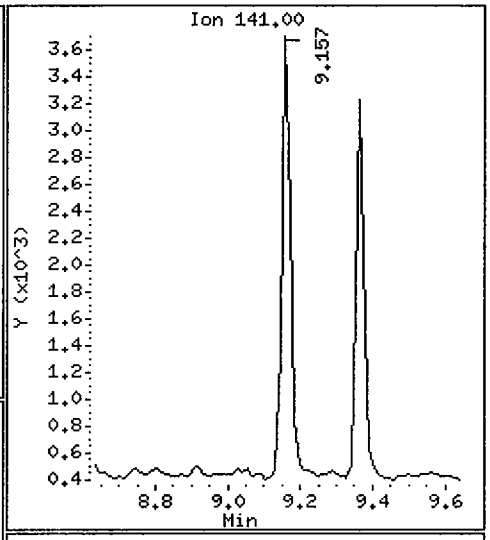
15 2-Methylnaphthalene Concentration: 1.00 ug/Kg

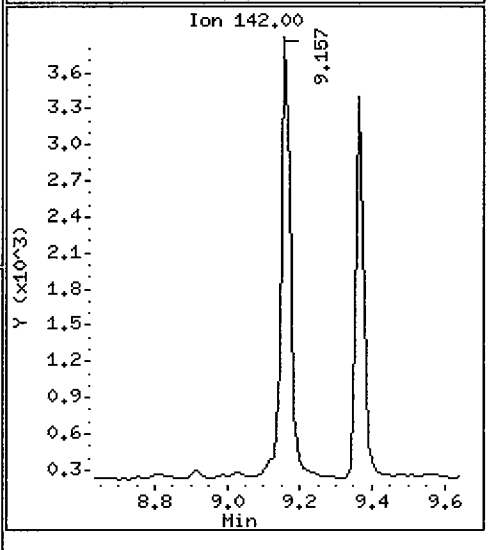












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d

Date : 31-MAY-2010 10:22

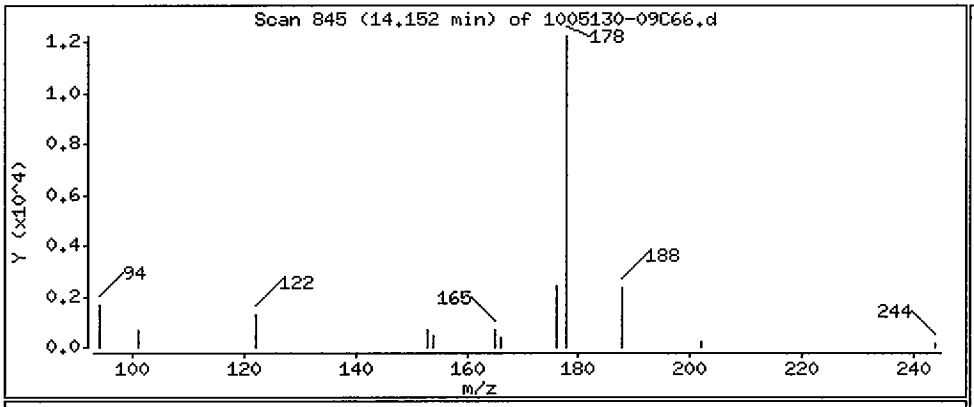
Client ID: SS47-0-1 Instrument: 5972hp66.i

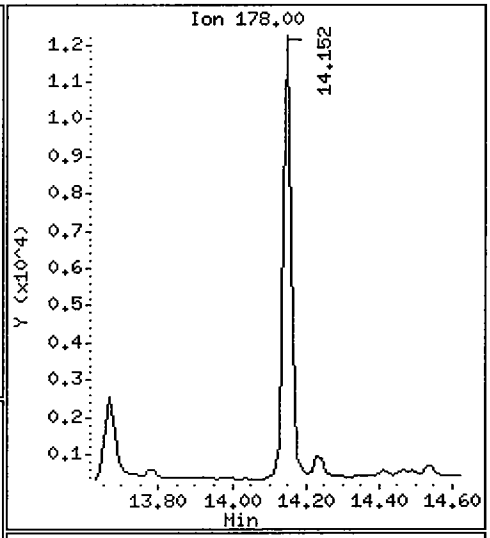
Sample Info: 1005130-09:2743

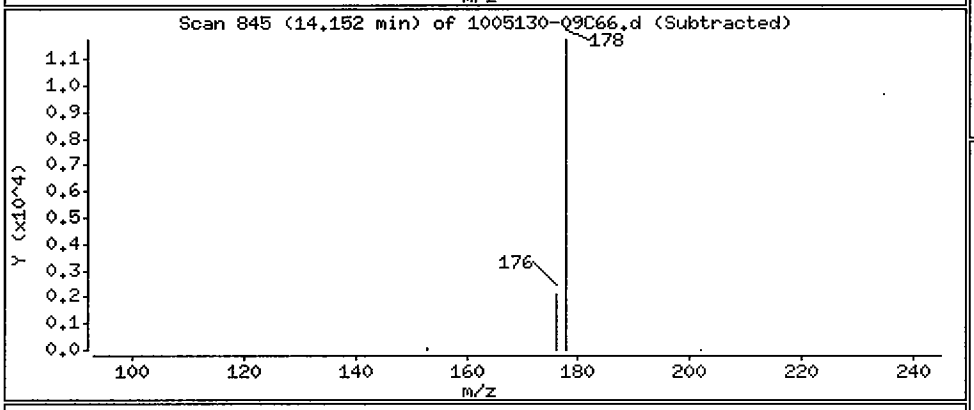
Volume Injected (uL): 2.0 Operator: 2743

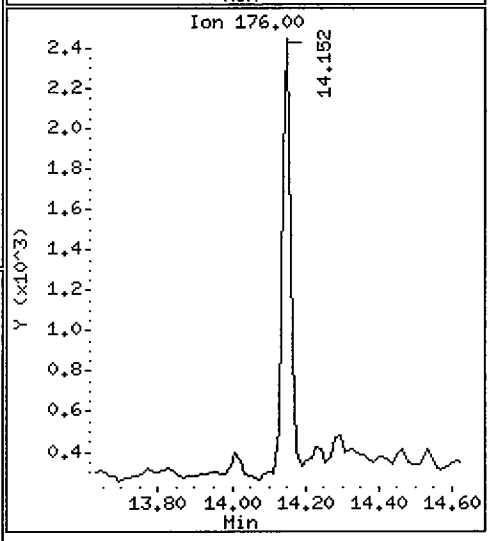
Column phase: Rtx-5MS Column diameter: 0.32

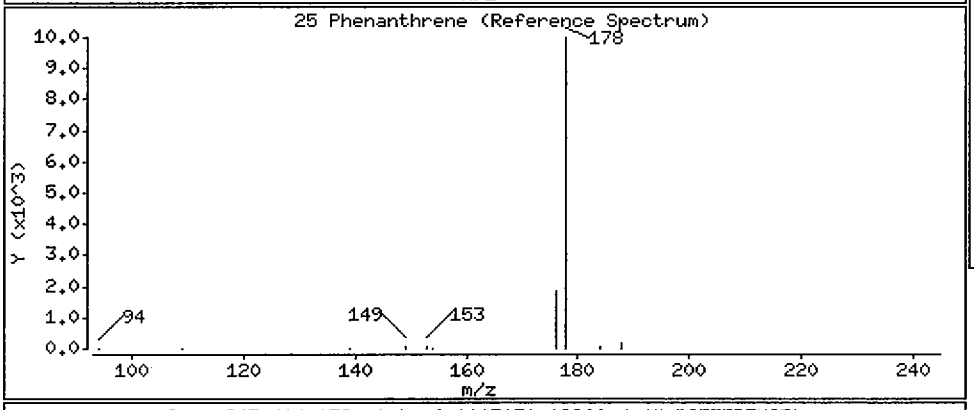
25 Phenanthrene Concentration: 2.1 ug/Kg

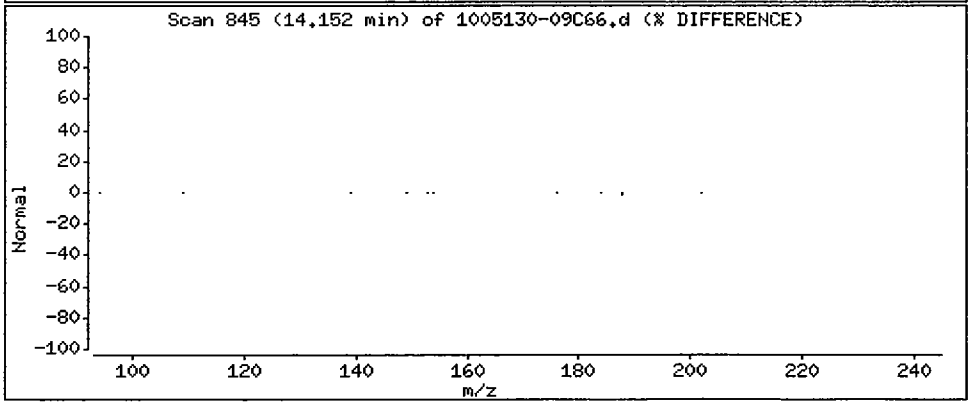












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d

Date : 31-MAY-2010 10:22

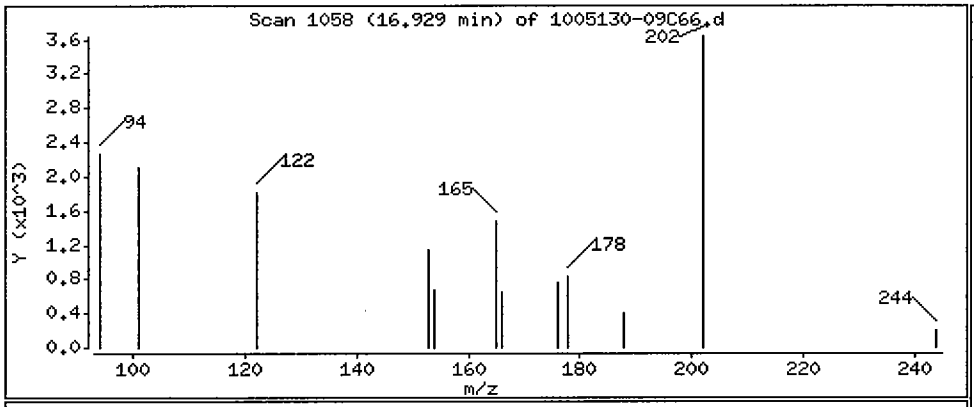
Client ID: SS47-0-1 Instrument: 5972hp66.i

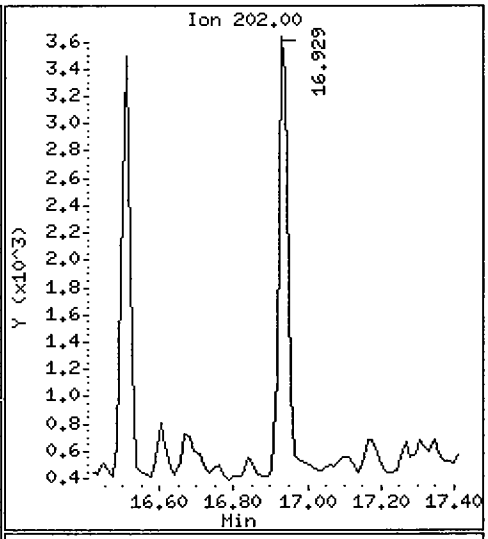
Sample Info: 1005130-09:2743

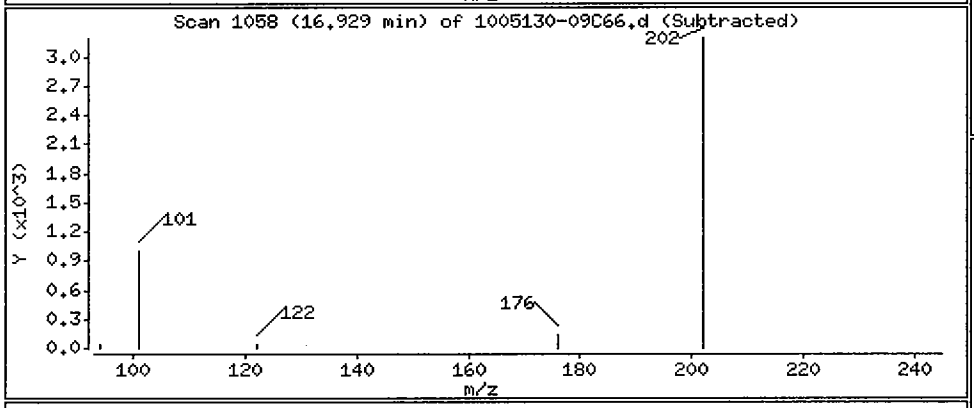
Volume Injected (uL): 2.0 Operator: 2743

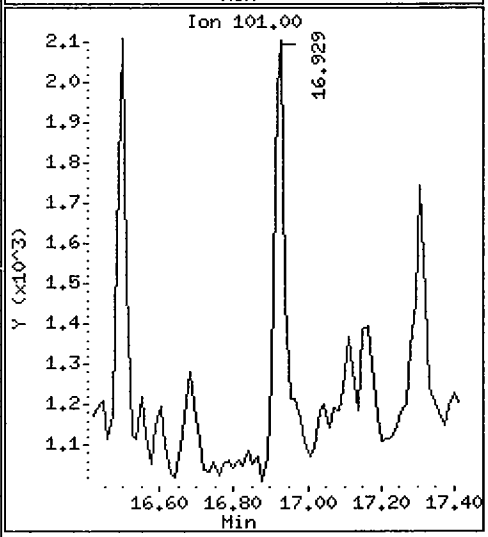
Column phase: Rtx-5MS Column diameter: 0.32

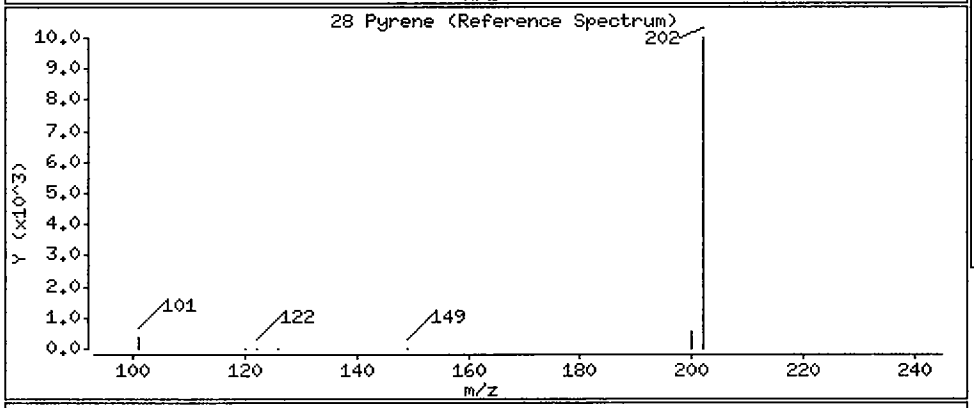
28 Pyrene Concentration: 0.74 ug/Kg

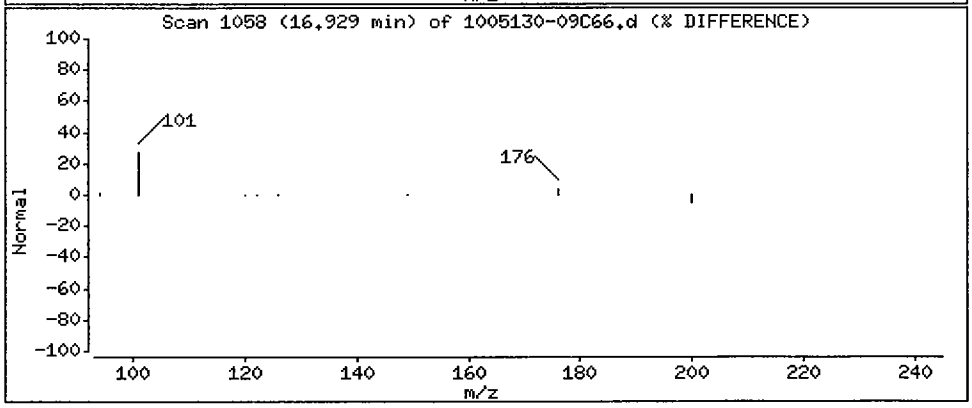












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d

Date : 31-MAY-2010 10:22

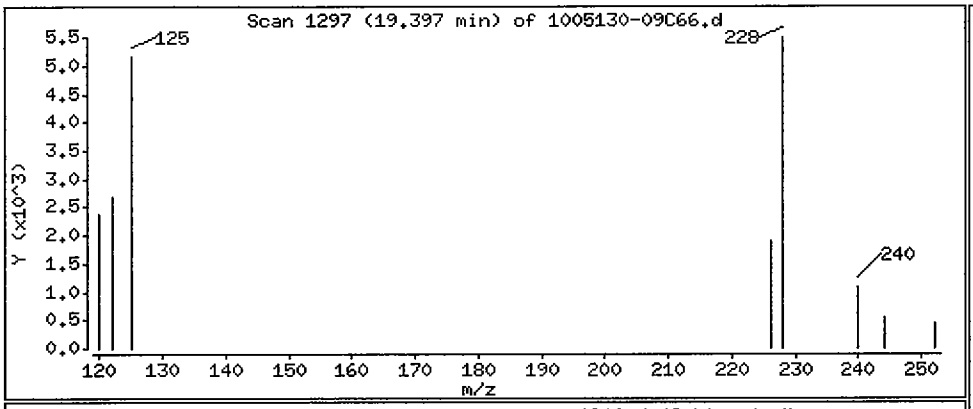
Client ID: SS47-0-1 Instrument: 5972hp66.i

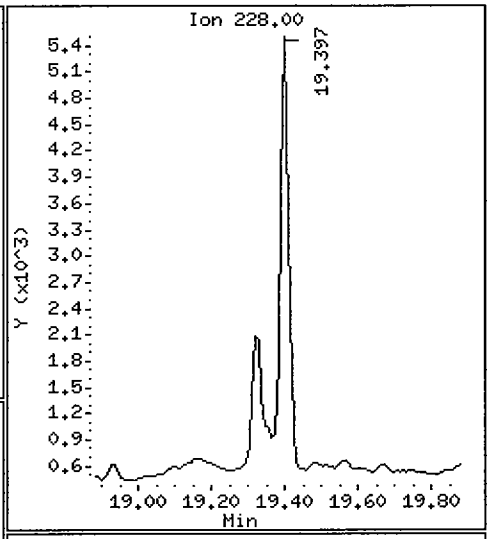
Sample Info: 1005130-09:2743

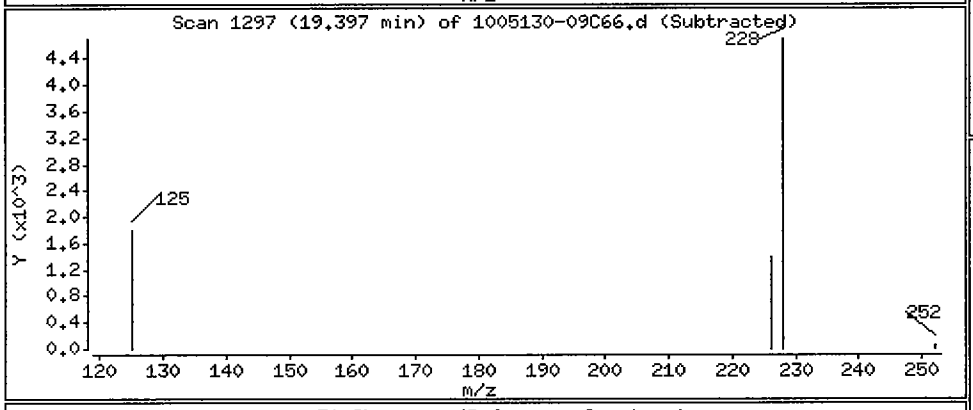
Volume Injected (uL): 2.0 Operator: 2743

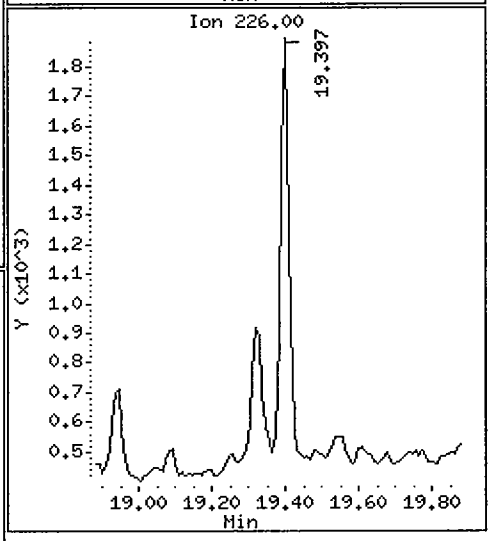
Column phase: Rtx-5MS Column diameter: 0.32

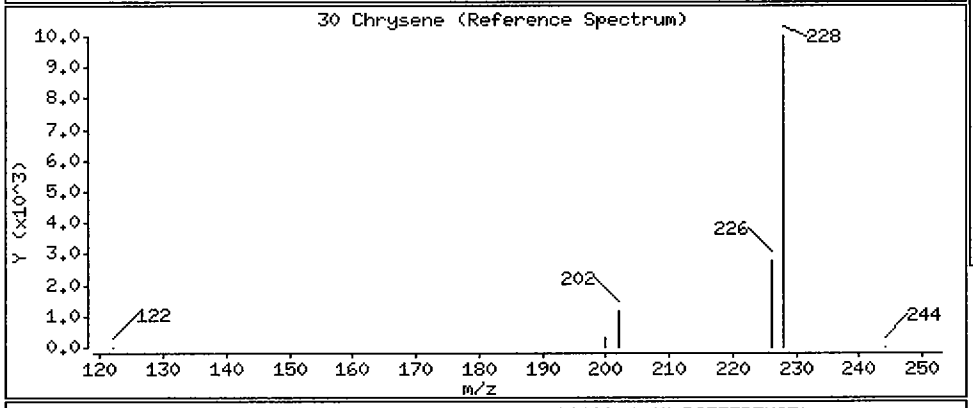
30 Chrysene Concentration: 1.2 ug/Kg

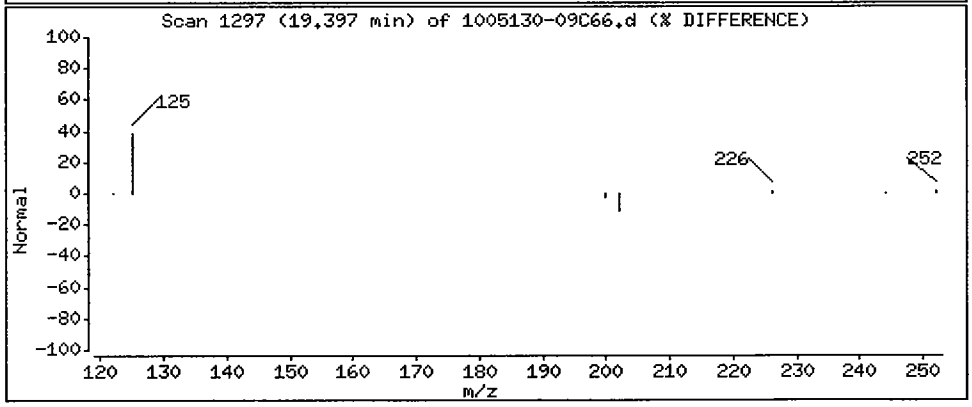












Data File: /chem/5972hp66.i/DS100530C66.b/1005130-09C66.d

Date : 31-MAY-2010 10:22

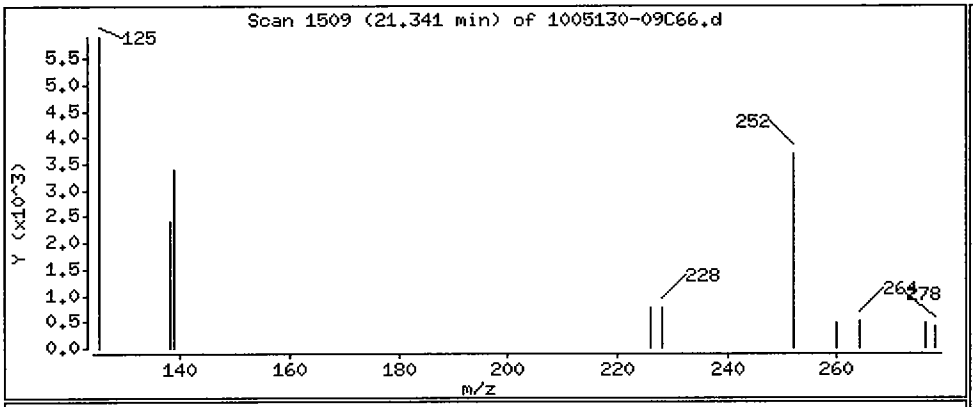
Client ID: SS47-0-1 Instrument: 5972hp66.i

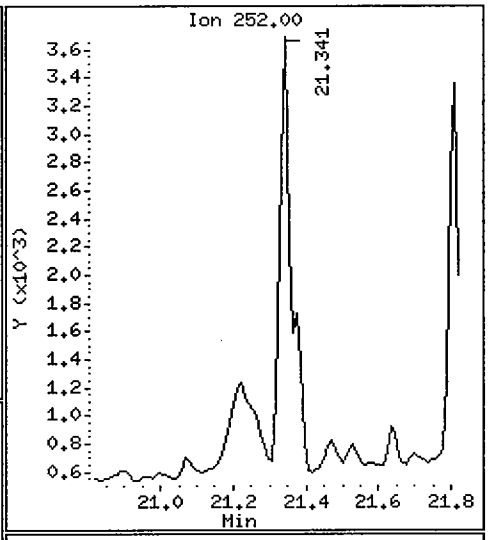
Sample Info: 1005130-09:2743

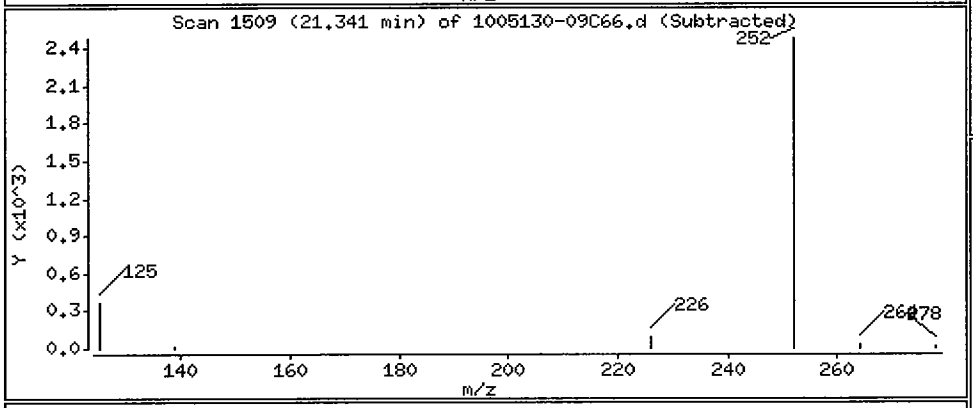
Volume Injected (uL): 2.0 Operator: 2743

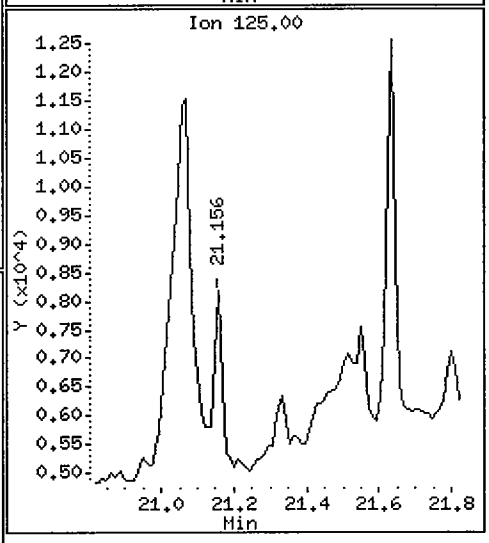
Column phase: Rtx-5MS Column diameter: 0.32

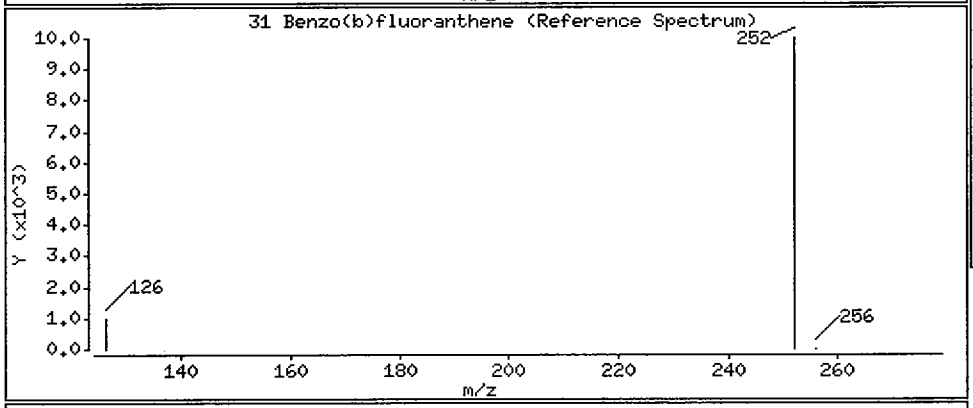
31 Benzo(b)fluoranthene Concentration: 0.85 ug/Kg

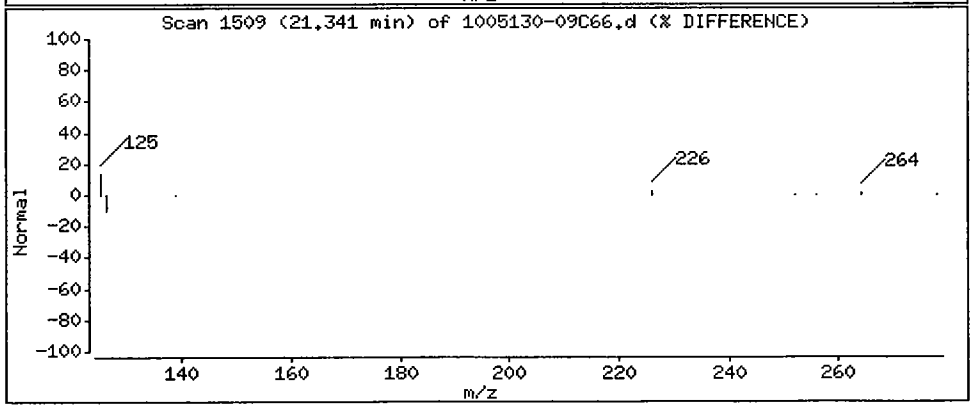












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS48-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/12/10

Lab Sample ID: 1005130-13
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-13C66
Analyst: 2743

% Moisture: 14 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

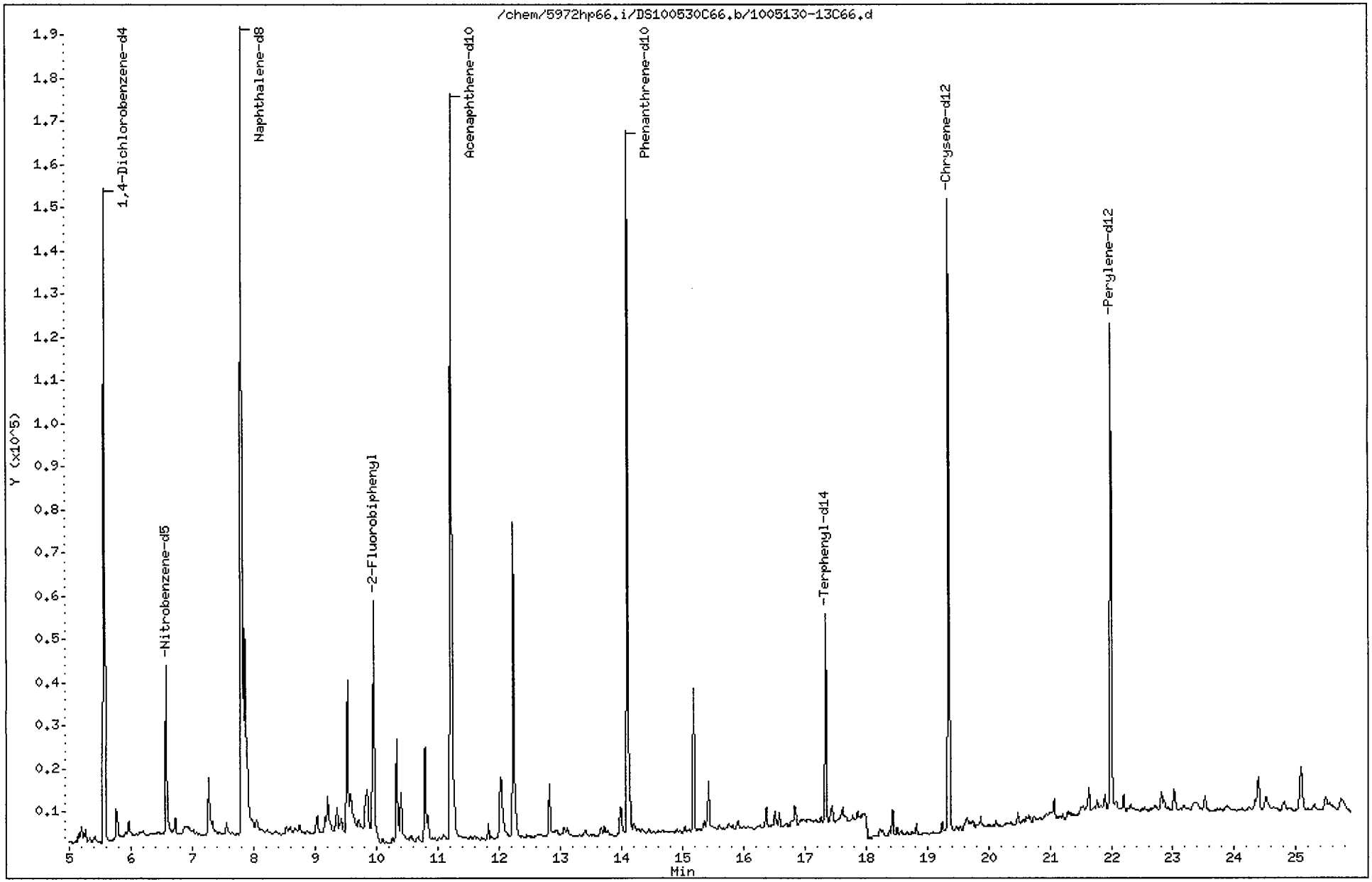
Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.83	9.7	ND	U
91-57-6	2-Methylnaphthalene	0.79	9.7	ND	U
208-96-8	Acenaphthylene	0.62	9.7	ND	U
83-32-9	Acenaphthene	0.70	9.7	ND	U
86-73-7	Fluorene	0.52	9.7	ND	U
85-01-8	Phenanthrene	1.5	9.7	ND	U
120-12-7	Anthracene	0.50	9.7	ND	U
206-44-0	Fluoranthene	1.6	9.7	ND	U
129-00-0	Pyrene	0.66	9.7	ND	U
56-55-3	Benzo(a)anthracene	0.66	9.7	ND	U
218-01-9	Chrysene	0.74	9.7	ND	U
205-99-2	Benzo(b)fluoranthene	0.66	9.7	ND	U
207-08-9	Benzo(k)fluoranthene	0.50	9.7	ND	U
50-32-8	Benzo(a)pyrene	0.45	9.7	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	9.7	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.39	9.7	ND	U
191-24-2	Benzo(g,h,i)perylene	0.45	9.7	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-13C66.d
Date : 31-MAY-2010 12:37
Client ID: SS48-0-1
Sample Info: 1005130-13;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/1005130-13C66.d
Report Date: 02-Jun-2010 11:57

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/1005130-13C66.d
Lab Smp Id: 1005130-13 Client Smp ID: SS48-0-1
Inj Date : 31-MAY-2010 12:37
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-13:2743
Misc Info : SS48-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:55 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	14.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.570	5.543	(1.000)	86633	2.00000	
* 2 Naphthalene-d8	136	7.799	7.785	(1.000)	305710	2.00000	
* 3 Acenaphthene-d10	164	11.217	11.206	(1.000)	135620	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.087	(1.000)	245241	2.00000	
* 5 Chrysene-d12	240	19.353	19.336	(1.000)	189259	2.00000	
* 6 Perylene-d12	264	21.994	21.960	(1.000)	149029	2.00000	
$ 9 Nitrobenzene-d5	82	6.574	6.547	(0.843)	45118	0.66324	13
$ 10 2-Fluorobiphenyl	172	9.950	9.936	(0.887)	77444	0.54722	11
$ 12 Terphenyl-d14	244	17.347	17.334	(0.896)	57660	0.83850	16
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

6/2/10

Data File: /chem/5972hp66.i/DS100530C66.b/1005130-13C66.d
Report Date: 02-Jun-2010 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS49-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-05
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-05J2C66
Analyst: 2743

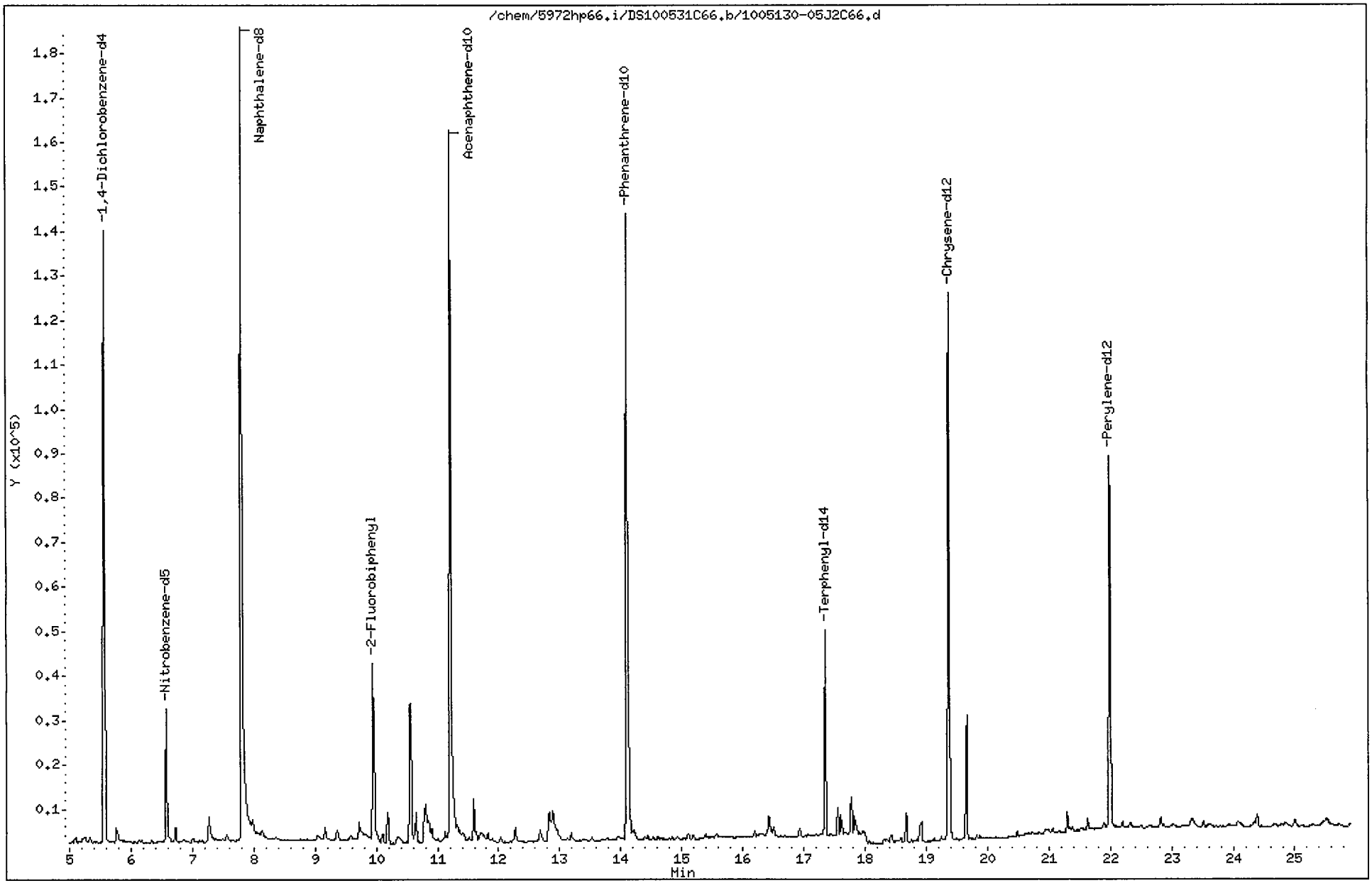
% Moisture: 8 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.78	9.0	ND	U
91-57-6	2-Methylnaphthalene	0.74	9.0	ND	U
208-96-8	Acenaphthylene	0.58	9.0	ND	U
83-32-9	Acenaphthene	0.65	9.0	ND	U
86-73-7	Fluorene	0.49	9.0	ND	U
85-01-8	Phenanthrene	1.4	9.0	ND	U
120-12-7	Anthracene	0.47	9.0	ND	U
206-44-0	Fluoranthene	1.4	9.0	ND	U
129-00-0	Pyrene	0.62	9.0	ND	U
56-55-3	Benzo(a)anthracene	0.62	9.0	ND	U
218-01-9	Chrysene	0.69	9.0	ND	U
205-99-2	Benzo(b)fluoranthene	0.62	9.0	ND	U
207-08-9	Benzo(k)fluoranthene	0.47	9.0	ND	U
50-32-8	Benzo(a)pyrene	0.42	9.0	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	9.0	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.36	9.0	ND	U
191-24-2	Benzo(g,h,i)perylene	0.42	9.0	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-05J2C66.d
Date : 01-JUN-2010 04:23
Client ID: SS49-0-1
Instrument: 5972hp66.i
Sample Info: 1005130-05;2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-05J2C66.d
Report Date: 02-Jun-2010 12:54

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-05J2C66.d
Lab Smp Id: 1005130-05 Client Smp ID: SS49-0-1
Inj Date : 01-JUN-2010 04:23
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-05:2743
Misc Info : SS49-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	8.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.571	5.535	(1.000)	83032	2.00000		(a)
*	2 Naphthalene-d8	136	7.800	7.790	(1.000)	299820	2.00000		(a)
*	3 Acenaphthene-d10	164	11.217	11.218	(1.000)	126506	2.00000		(aM)
*	4 Phenanthrene-d10	188	14.101	14.101	(1.000)	228393	2.00000		(a)
*	5 Chrysene-d12	240	19.371	19.353	(1.000)	165033	2.00000		(a)
*	6 Perylene-d12	264	21.994	21.983	(1.000)	122666	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.575	6.552	(0.843)	34798	0.52159	9.4	
$	10 2-Fluorobiphenyl	172	9.951	9.954	(1.000)	61295	0.46432	8.4	
$	12 Terphenyl-d14	244	17.347	17.347	(0.896)	54124	0.90262	16	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

1 on ch/w

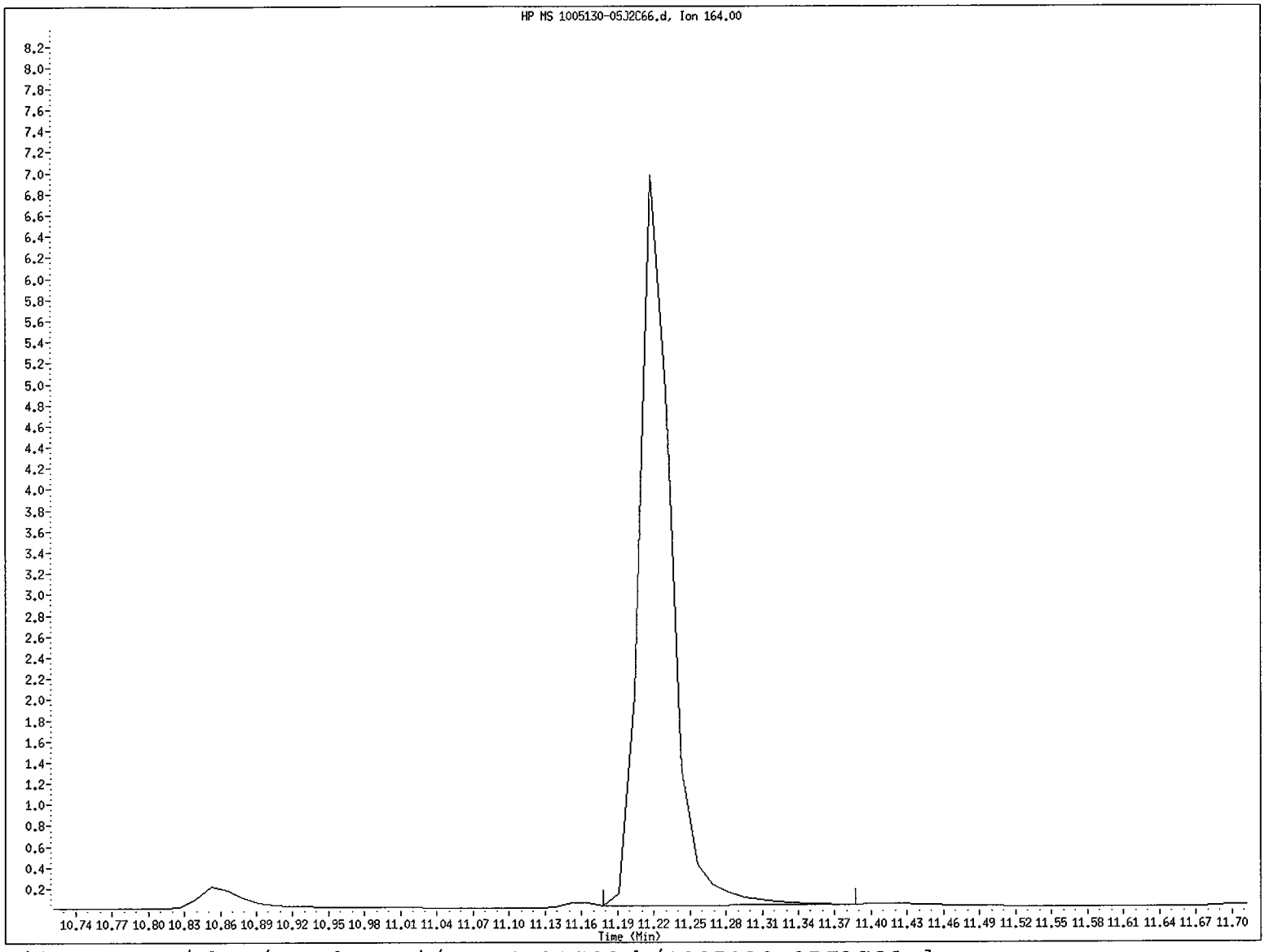
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-05J2C66.d
Report Date: 02-Jun-2010 12:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Acenaphthene-d10 CAS Number 15067-26-2 Area = 126506 Manually integrated



File name: /chem/5972hp66.i/DS100531C66.b/1005130-05J2C66.d
Client ID: SS49-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 04:23
Retention Time: 11.22
Operator ID: 2743

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-07
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-07JC66
Analyst: 2743

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

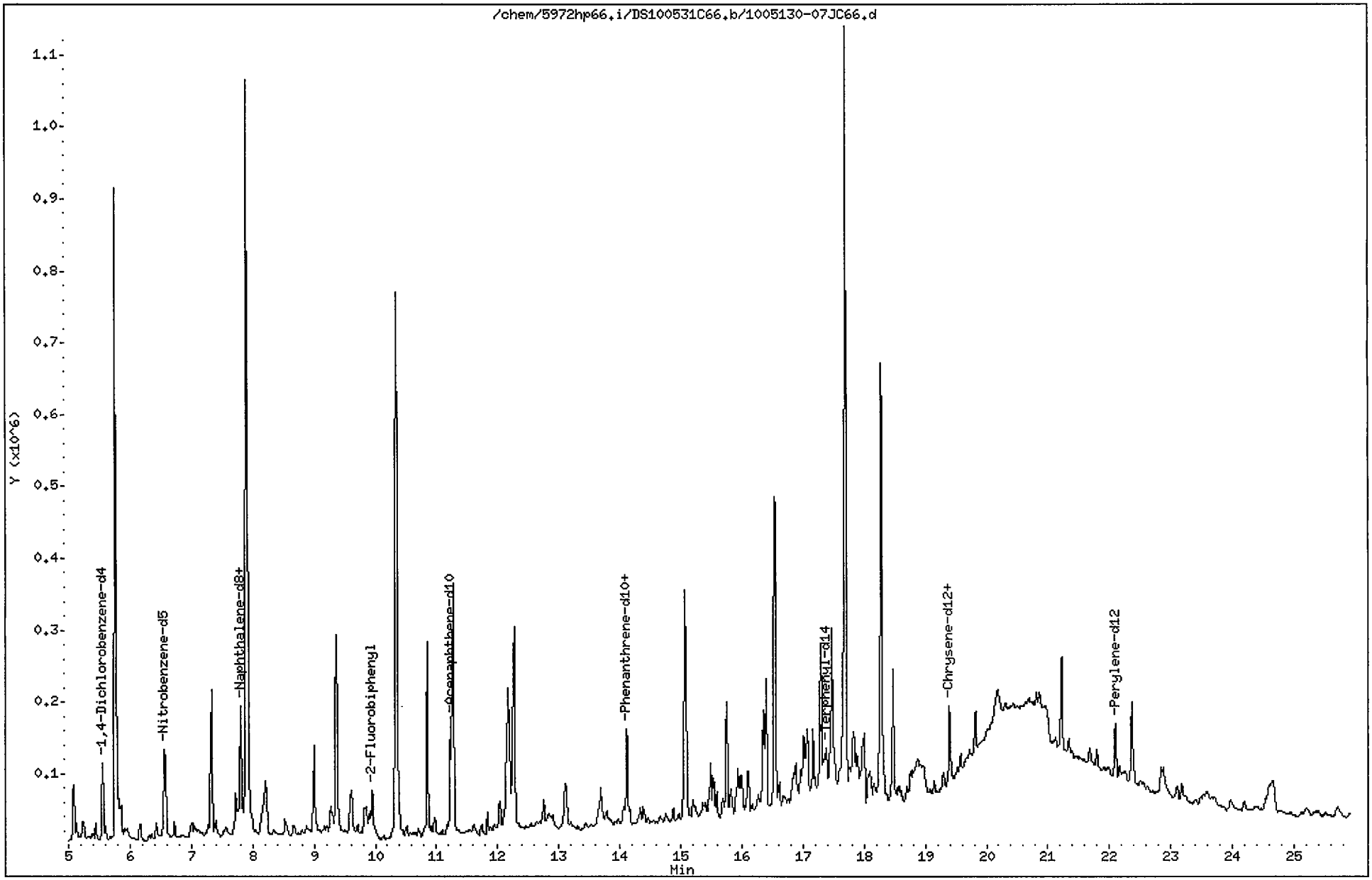
Date Extracted: 05/19/10
Date Analyzed: 06/01/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	2.0	J
91-57-6	2-Methylnaphthalene	1.0	13	1.1	J
208-96-8	Acenaphthylene	0.81	13	ND	U
83-32-9	Acenaphthene	0.91	13	1.3	J
86-73-7	Fluorene	0.68	13	0.69	J
85-01-8	Phenanthrene	2.0	13	2.5	J
120-12-7	Anthracene	0.66	13	0.74	J
206-44-0	Fluoranthene	2.0	13	4.3	J
129-00-0	Pyrene	0.86	13	2.1	J
56-55-3	Benzo(a)anthracene	0.86	13	1.6	J
218-01-9	Chrysene	0.96	13	1.6	J
205-99-2	Benzo(b)fluoranthene	0.86	13	1.4	J
207-08-9	Benzo(k)fluoranthene	0.66	13	1.3	J
50-32-8	Benzo(a)pyrene	0.58	13	1.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	0.91	J
53-70-3	Dibenzo(a,h)anthracene	0.51	13	ND	U
191-24-2	Benzo(g,h,i)perylene	0.58	13	0.90	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Date : 01-JUN-2010 06:05
Client ID: SS50-0-1 Instrument: 5972hp66.i
Sample Info: 1005130-07:2743
Volume Injected (uL): 2.0 Operator: 2743
Column phase: Rtx-5MS Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Report Date: 24-Jun-2010 12:08

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Lab Smp Id: 1005130-07 Client Smp ID: SS50-0-1
Inj Date : 01-JUN-2010 06:05
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005130-07:2743
Misc Info : SS50-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 12:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	34.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.558	5.535	(1.000)	61850	2.00000		
* 2 Naphthalene-d8	136	7.800	7.790	(1.000)	244874	2.00000		
* 3 Acenaphthene-d10	164	11.231	11.218	(1.000)	111420	2.00000		
* 4 Phenanthrene-d10	188	14.126	14.101	(1.000)	209924	2.00000		
* 5 Chrysene-d12	240	19.397	19.353	(1.000)	144072	2.00000	(M)	2.30 2.30 6/24/10
* 6 Perylene-d12	264	22.103	21.983	(1.000)	95471	2.00000	(M)	
$ 9 Nitrobenzene-d5	82	6.575	6.552	(0.843)	104883	1.92484	49	(R)
$ 10 2-Fluorobiphenyl	172	9.951	9.954	(0.886)	83096	0.71469	18	
$ 12 Terphenyl-d14	244	17.372	17.347	(0.896)	53373	1.01959	26	
13 Naphthalene	128	7.839	7.816	(1.005)	11704	0.07727	2.0	(a)
15 2-Methylnaphthalene	141	9.169	9.159	(0.816)	3600	0.04513	1.1	(a)
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	11.283	11.270	(1.005)	3840	0.05266	1.3	(a)

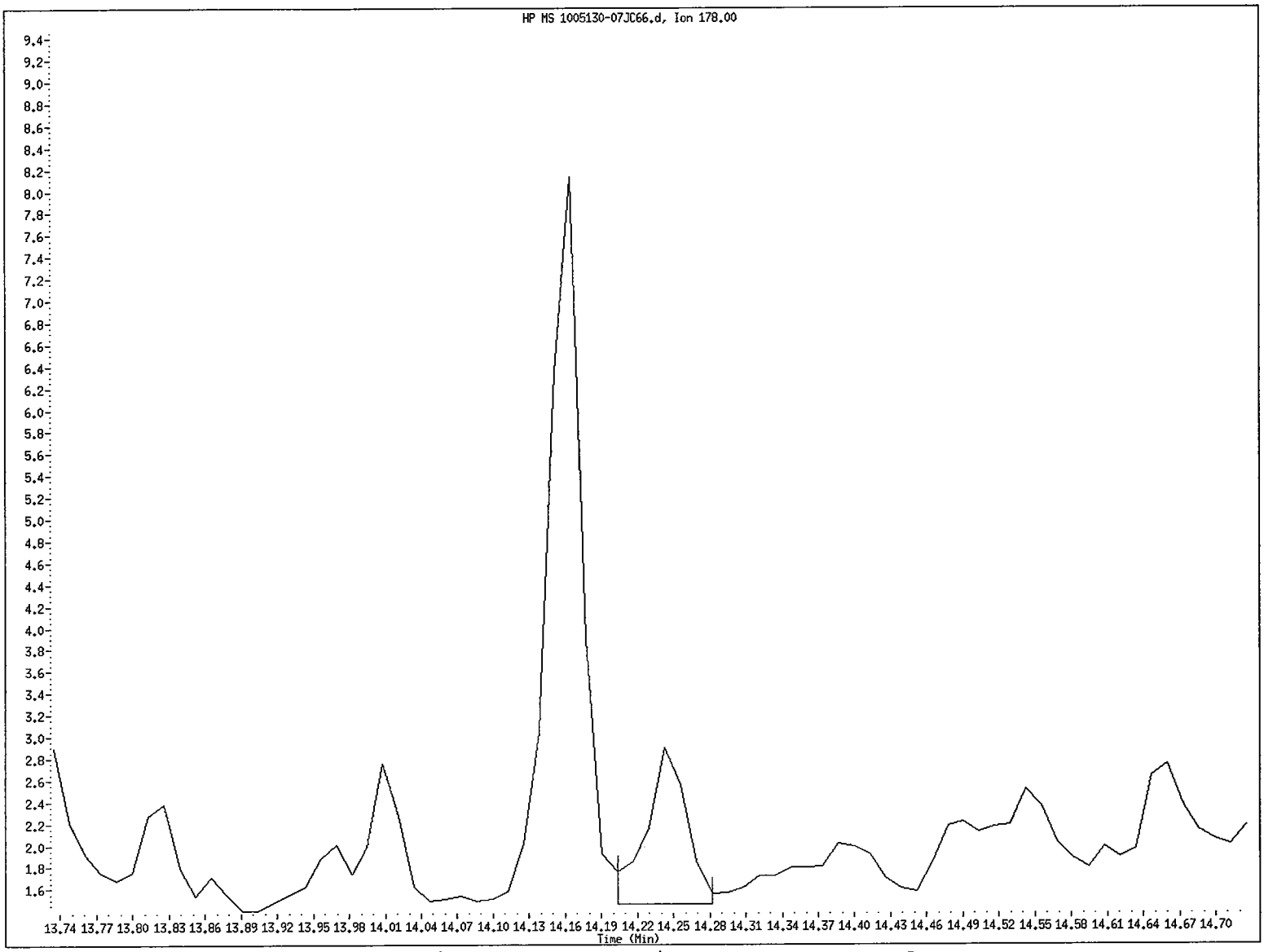
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Report Date: 24-Jun-2010 12:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	12.286	12.273	(0.870)	2668	0.02716	0.69(a)
25 Phenanthrene	178	14.165	14.140	(1.003)	12992	0.09925	2.5(a)
26 Anthracene	178	14.243	14.231	(1.008)	3451	0.02931	0.74(aM)2
27 Fluoranthene	202	16.538	16.500	(0.853)	16180	0.16937	4.3(a)
28 Pyrene	202	16.968	16.930	(0.875)	8805	0.08463	2.1(a)
29 Benzo(a)anthracene	228	19.371	19.318	(0.999)	4825	0.06161	1.6(a)
30 Chrysene	228	19.441	19.397	(1.002)	5385	0.06348	1.6(aM)2
31 Benzo(b)fluoranthene	252	21.461	21.330	(0.971)	3460	0.05495	1.4(aMH)2
32 Benzo(k)fluoranthene	252	21.494	21.373	(0.972)	3502	0.05169	1.3(aMH)2
33 Benzo(a)pyrene	252	21.798	21.885	(0.986)	2442	0.04304	1.1(aM)2
34 Indeno(1,2,3-cd)pyrene	276	24.215	24.062	(1.096)	1794	0.03584	0.91(aM)2
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.846	24.661	(1.124)	1981	0.03571	0.90(aM)2

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

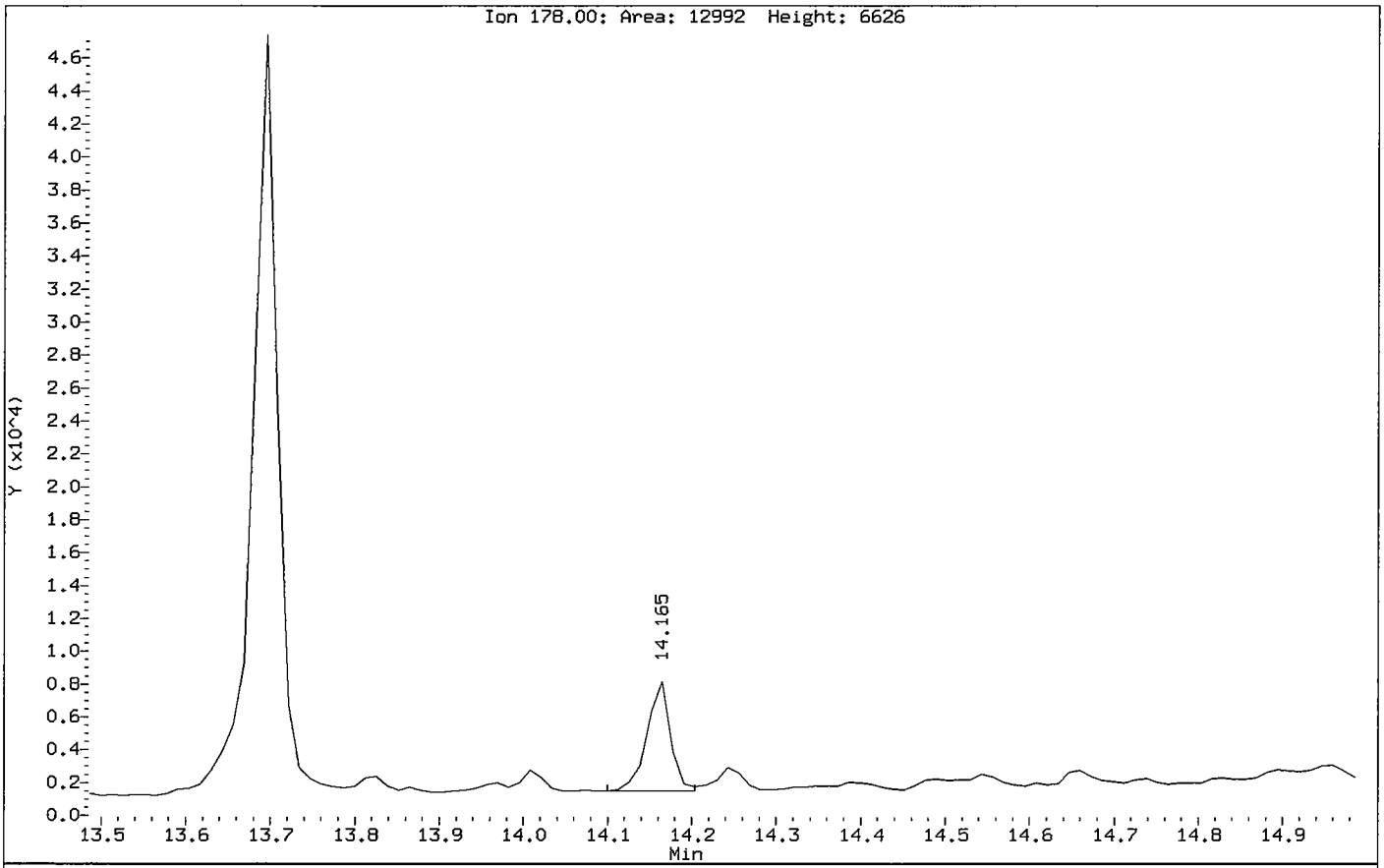
Anthracene CAS Number 120-12-7 Area = 3451 Manually integrated

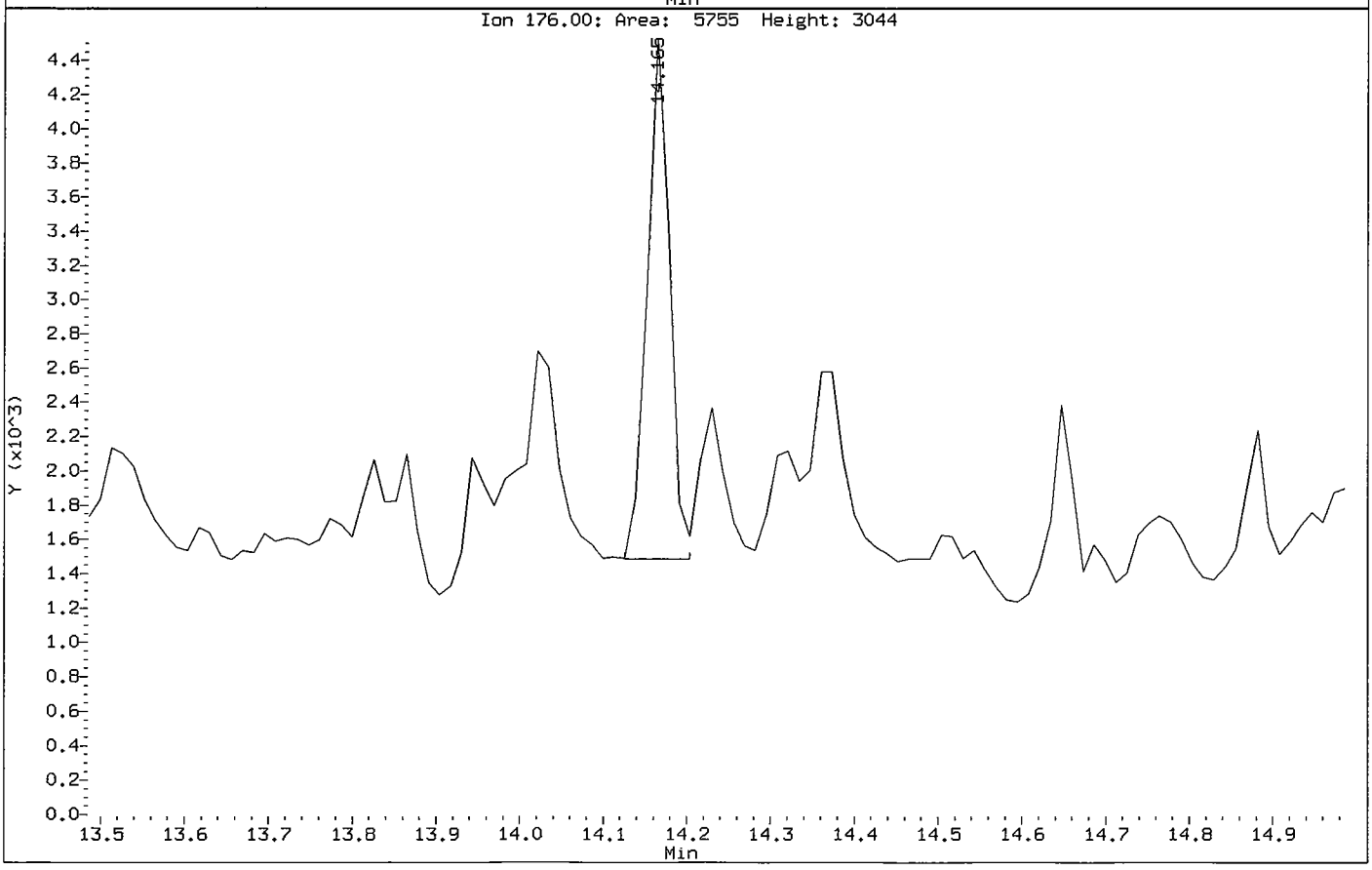


File name: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Client ID: SS50-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 06:05
Retention Time: 14.24
Operator ID: 2743

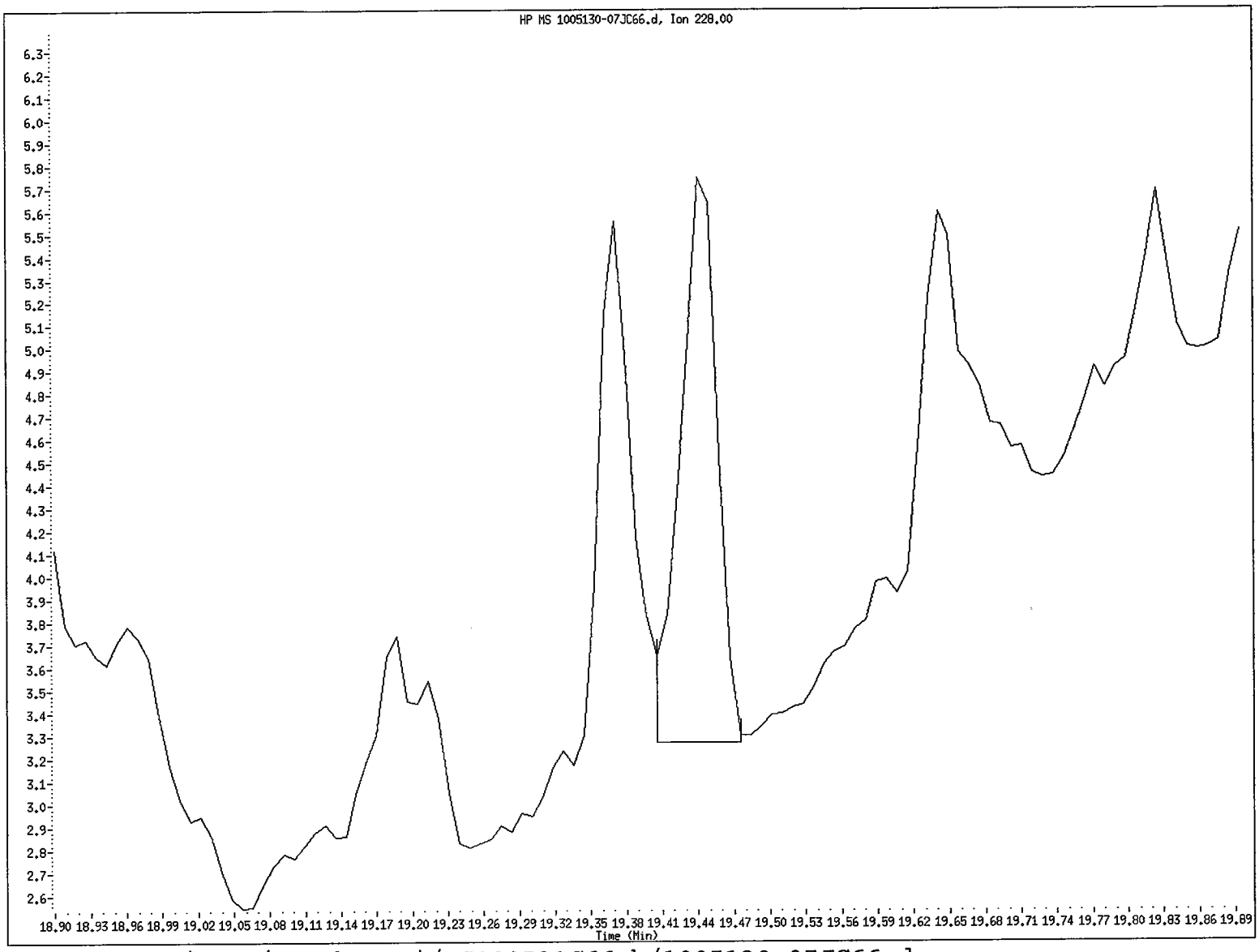
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Injection Date: 01-JUN-2010 06:05
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1

Compound: Anthracene
CAS Number: 120-12-7





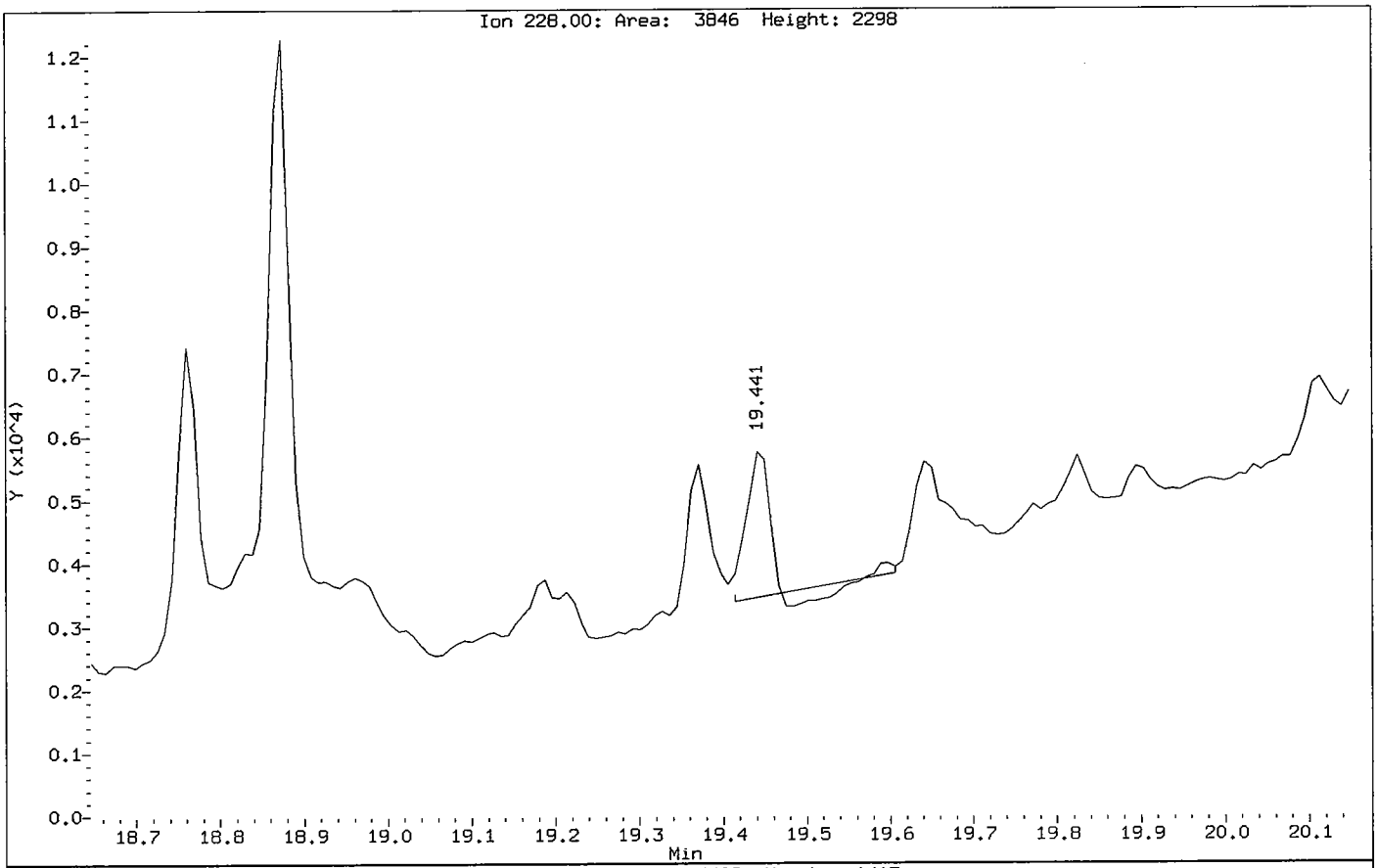
Chrysene CAS Number 218-01-9 Area = 5385 Manually integrated

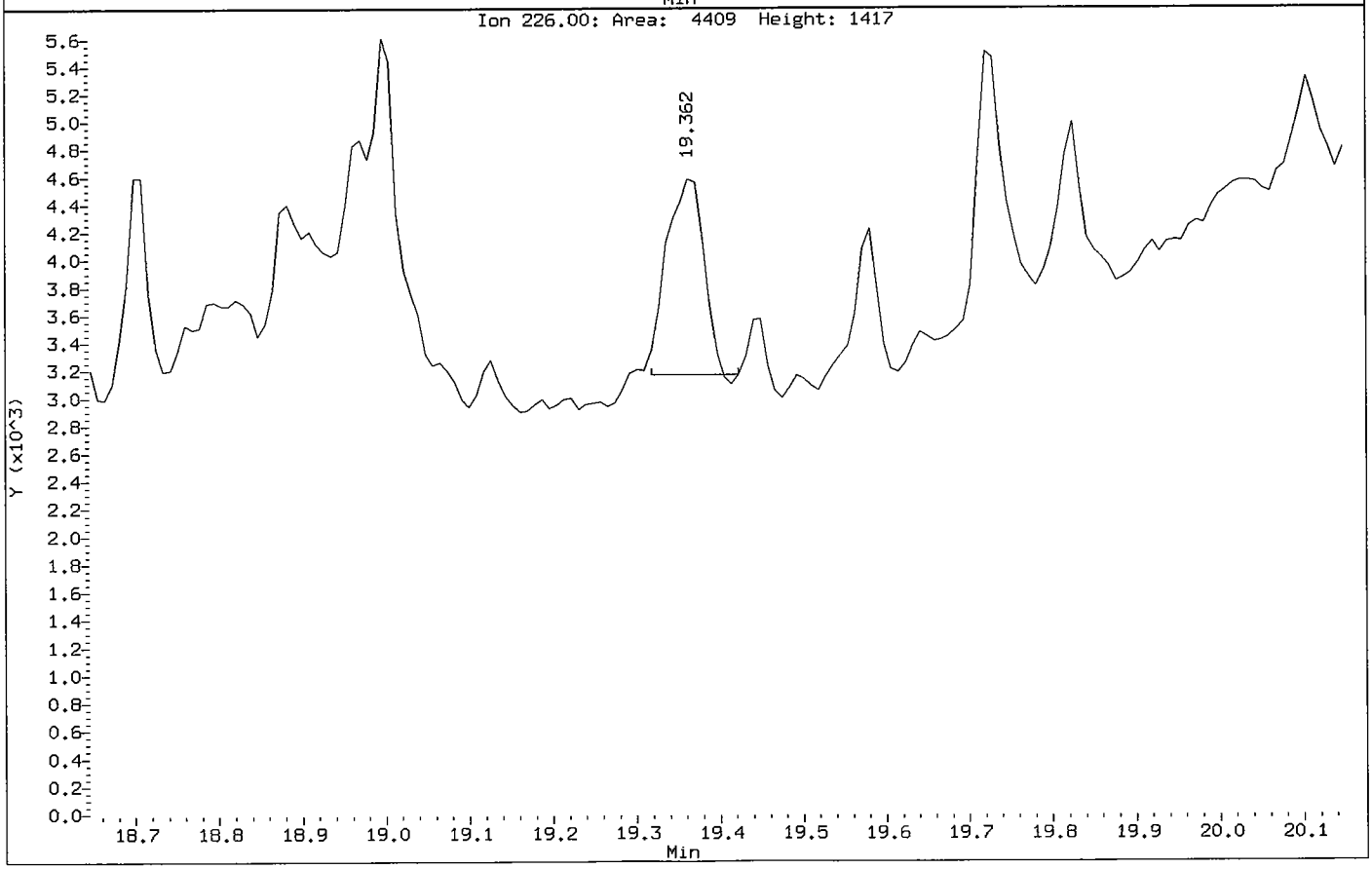


File name: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Client ID: SS50-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 06:05
Retention Time: 19.44
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Injection Date: 01-JUN-2010 06:05
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1

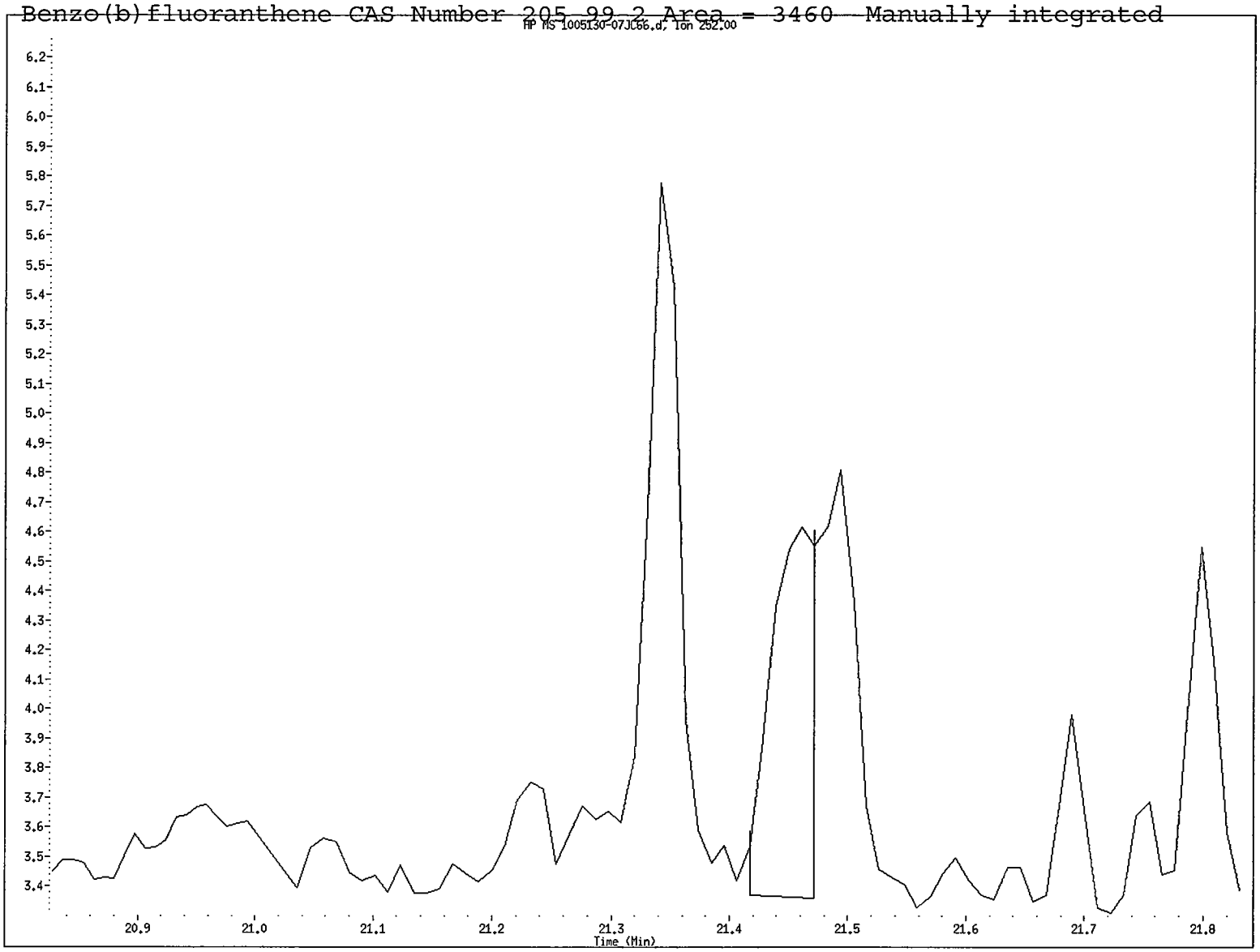
Compound: Chrysene
CAS Number: 218-01-9





Benzo(b)fluoranthene CAS Number 205-99-2 Area = 3460 User selected hit

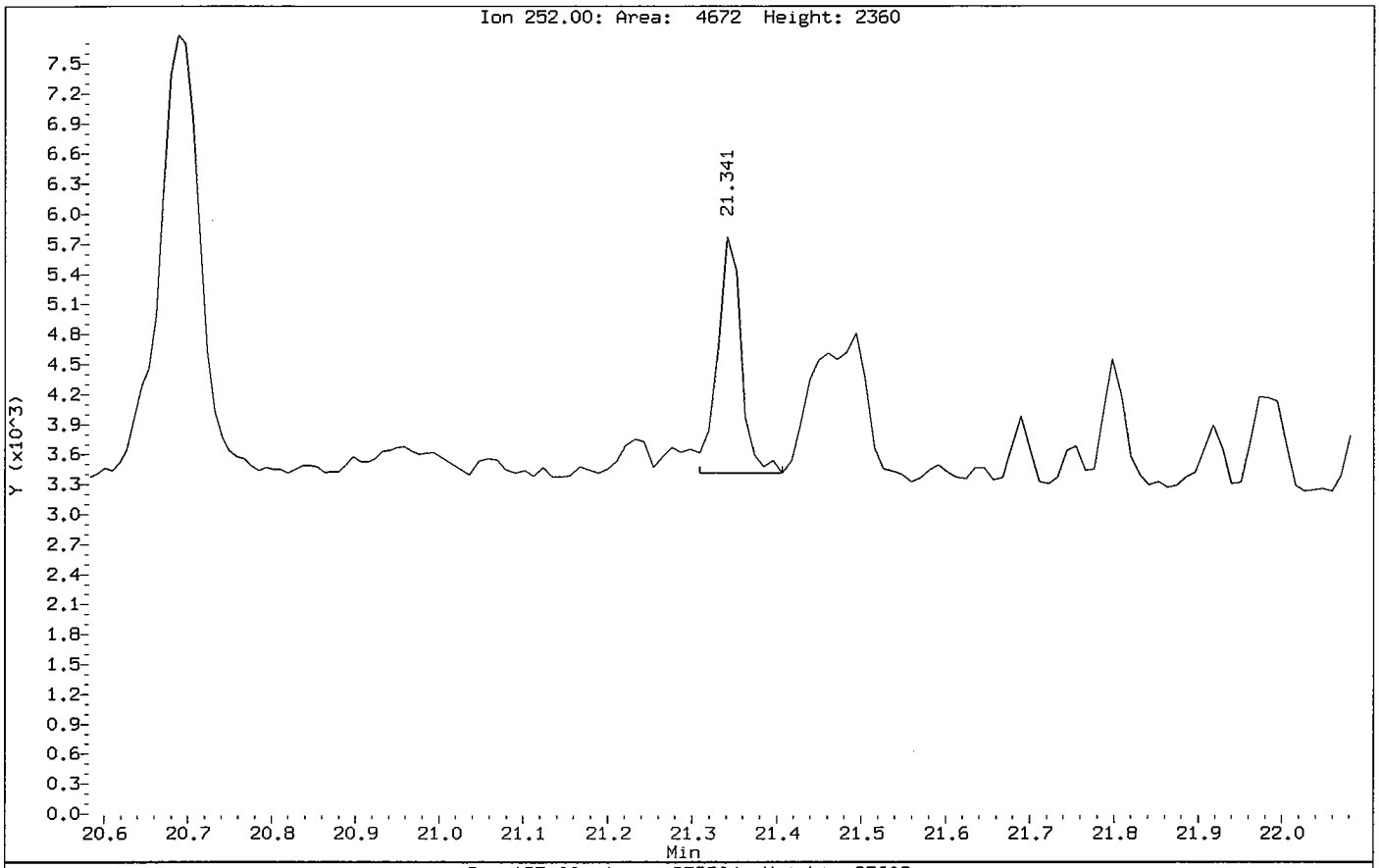
Benzo(b)fluoranthene CAS Number 205-99-2 Area = 3460 Manually integrated

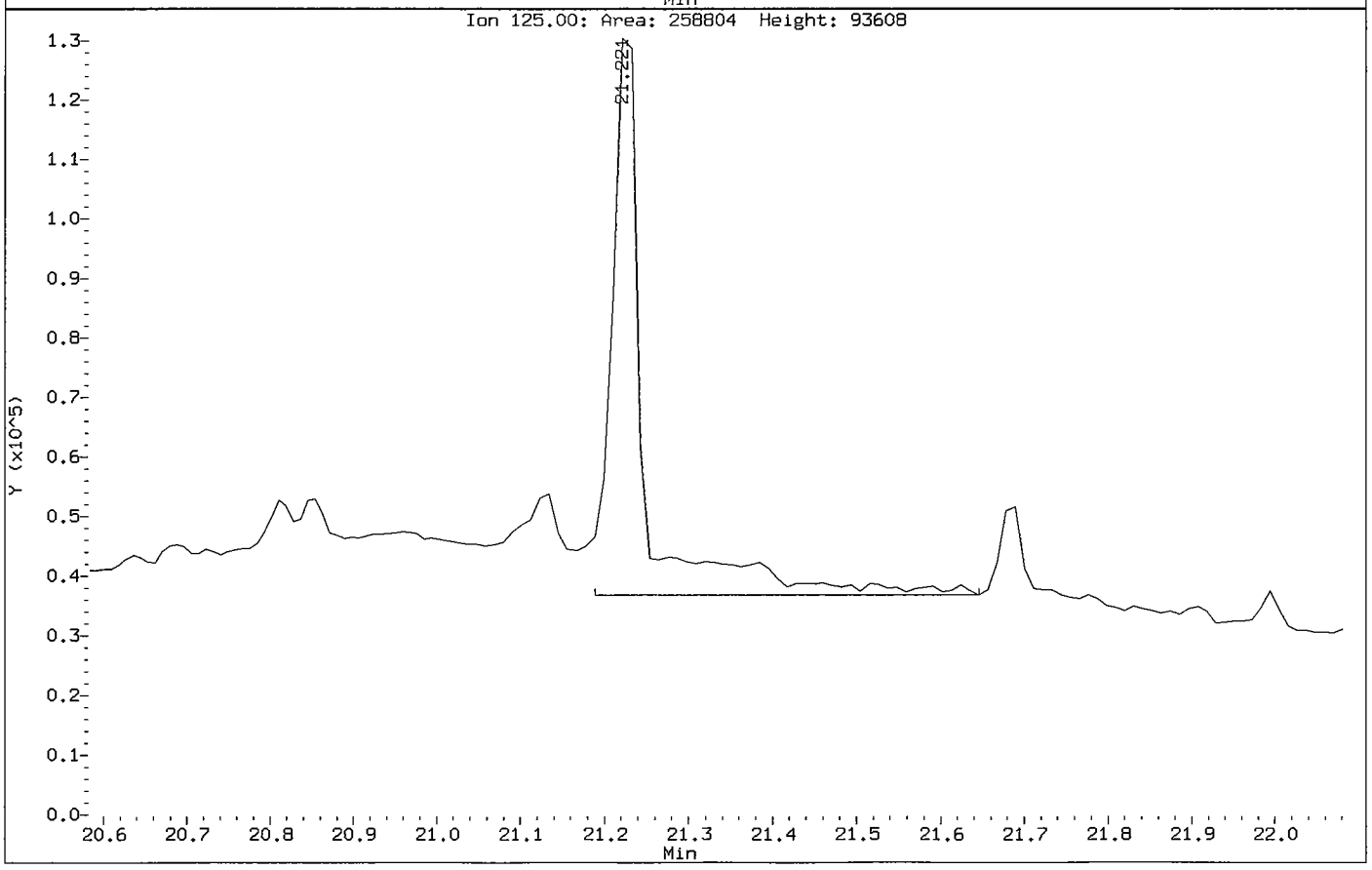


File name: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Client ID: SS50-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 06:05
Retention Time: 21.46
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Injection Date: 01-JUN-2010 06:05
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1

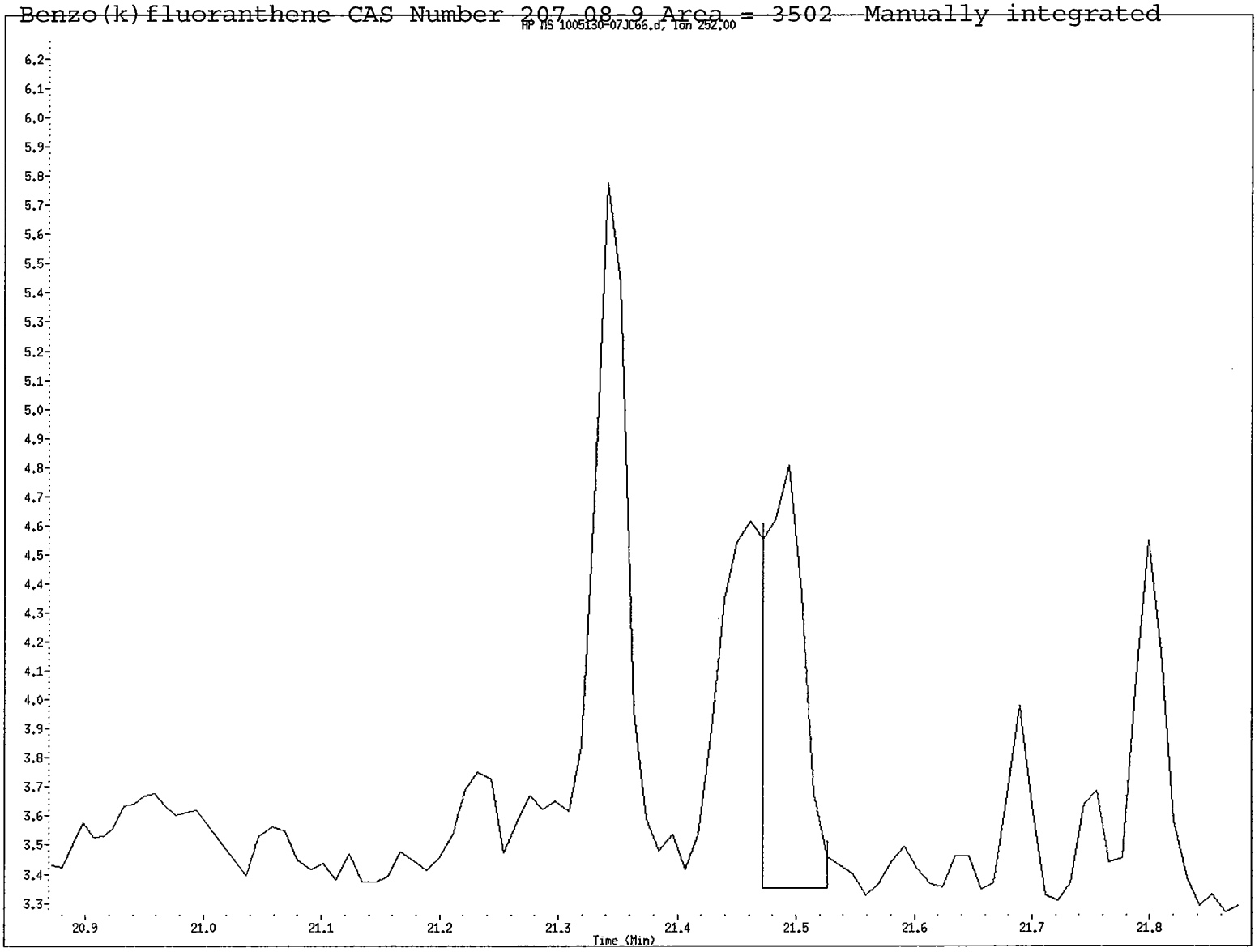
Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





Benzo(k)fluoranthene CAS Number 207-08-9 Area = 3502 User selected hit

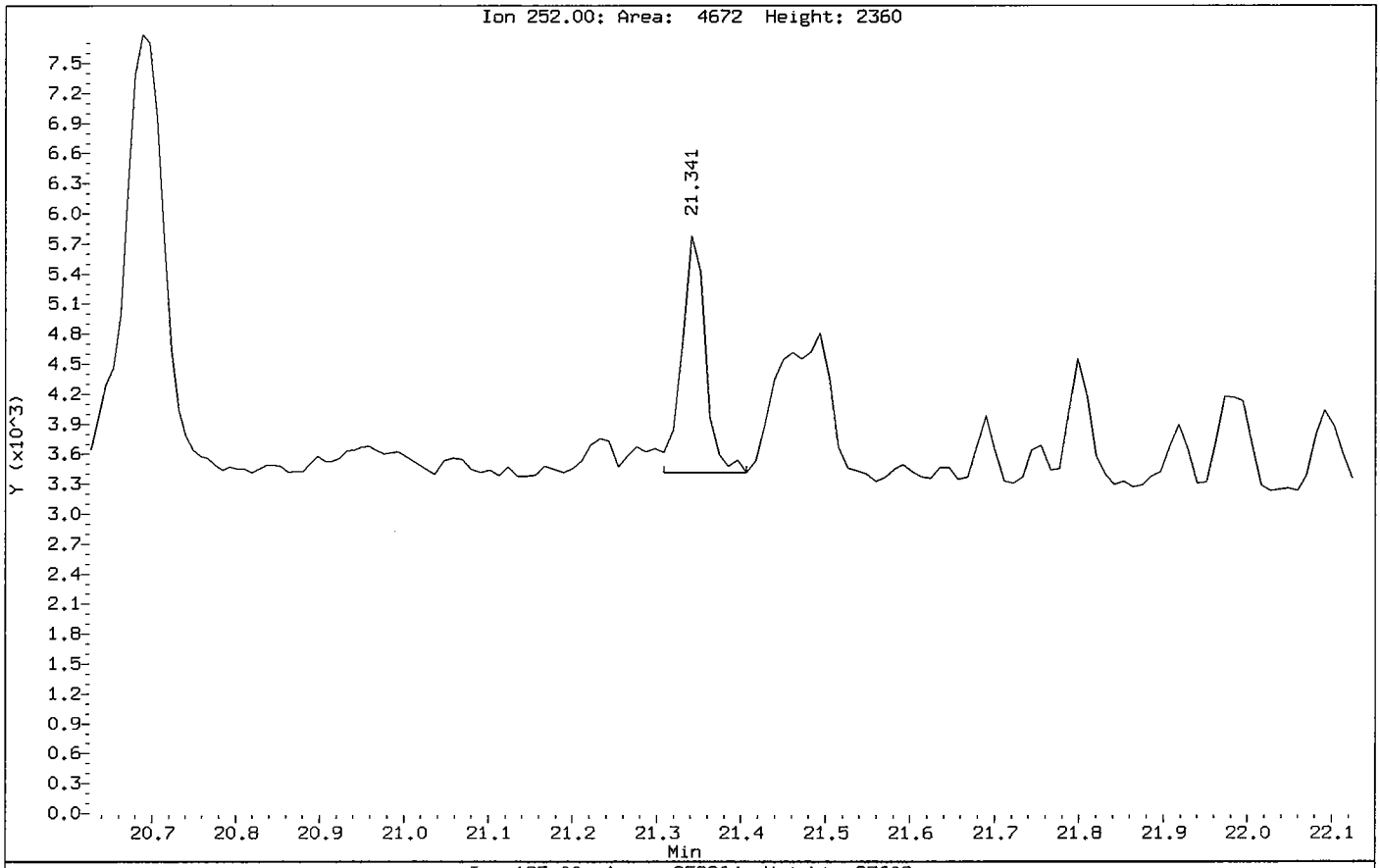
~~Benzo(k)fluoranthene CAS Number 207-08-9 Area = 3502 Manually integrated~~

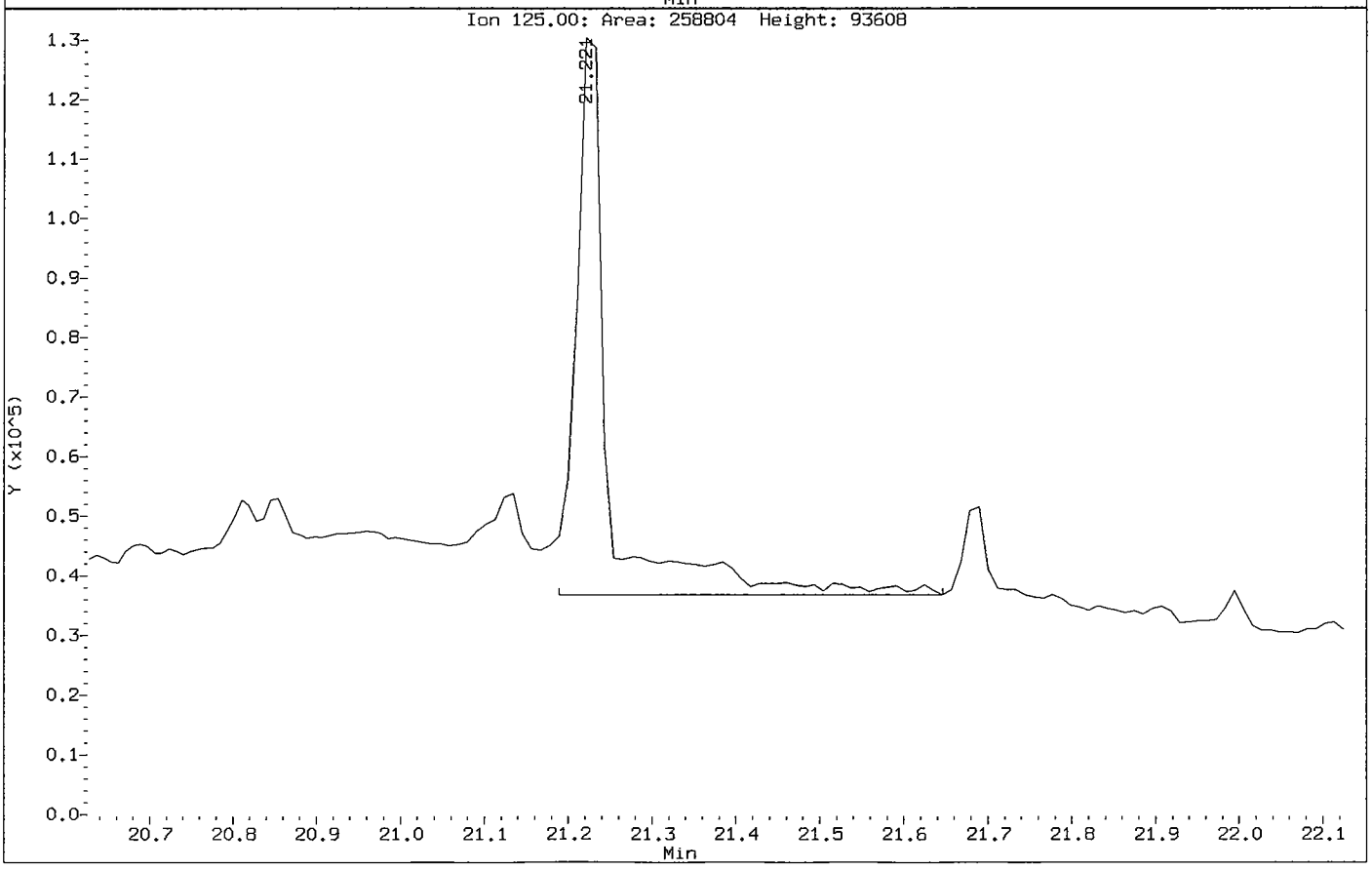


File name: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Client ID: SS50-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 06:05
Retention Time: 21.49
Operator ID: 2743

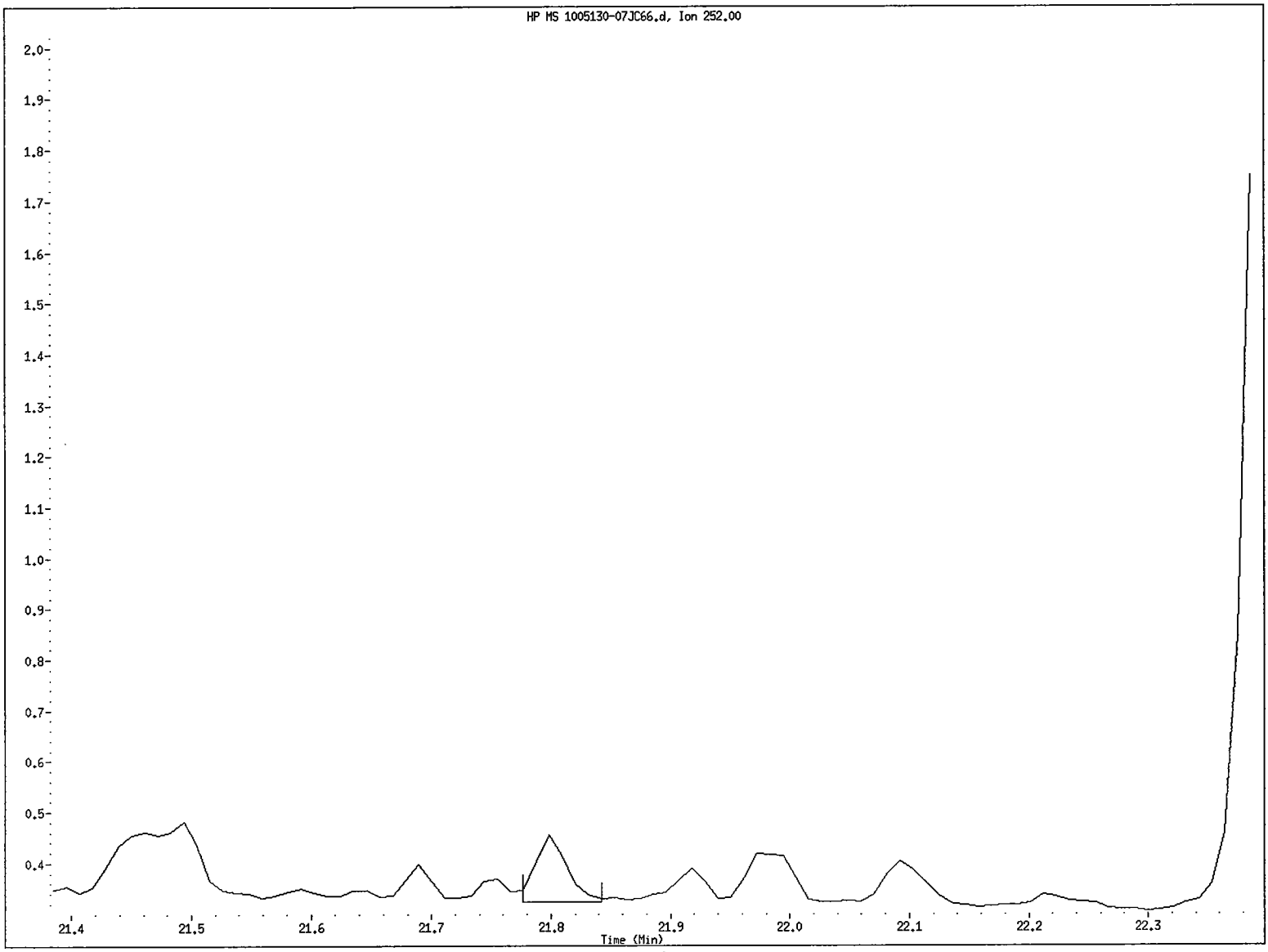
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Injection Date: 01-JUN-2010 06:05
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





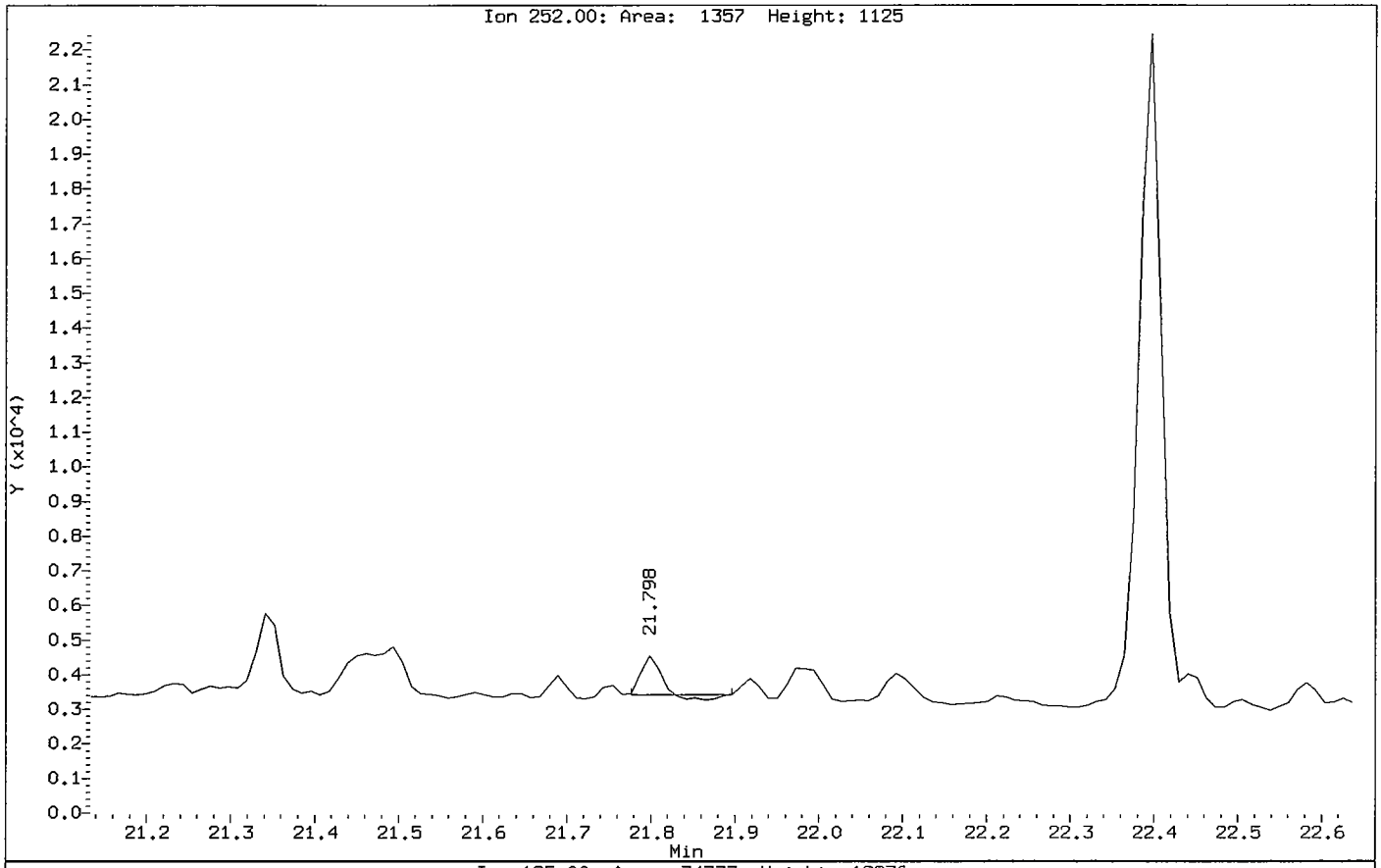
Benzo(a)pyrene CAS Number 50-32-8 Area = 2442 Manually integrated

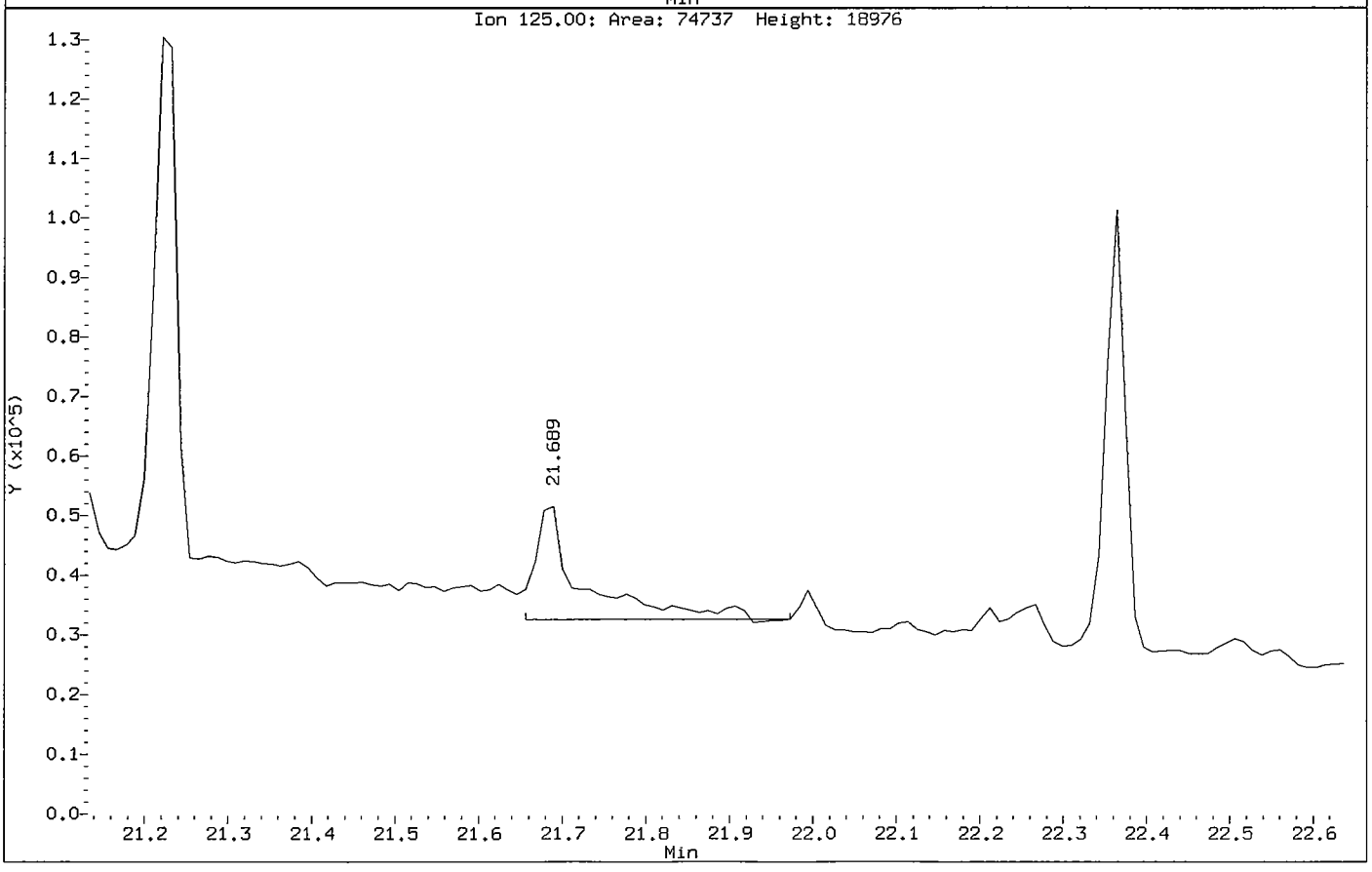


File name: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Client ID: SS50-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 06:05
Retention Time: 21.80
Operator ID: 2743

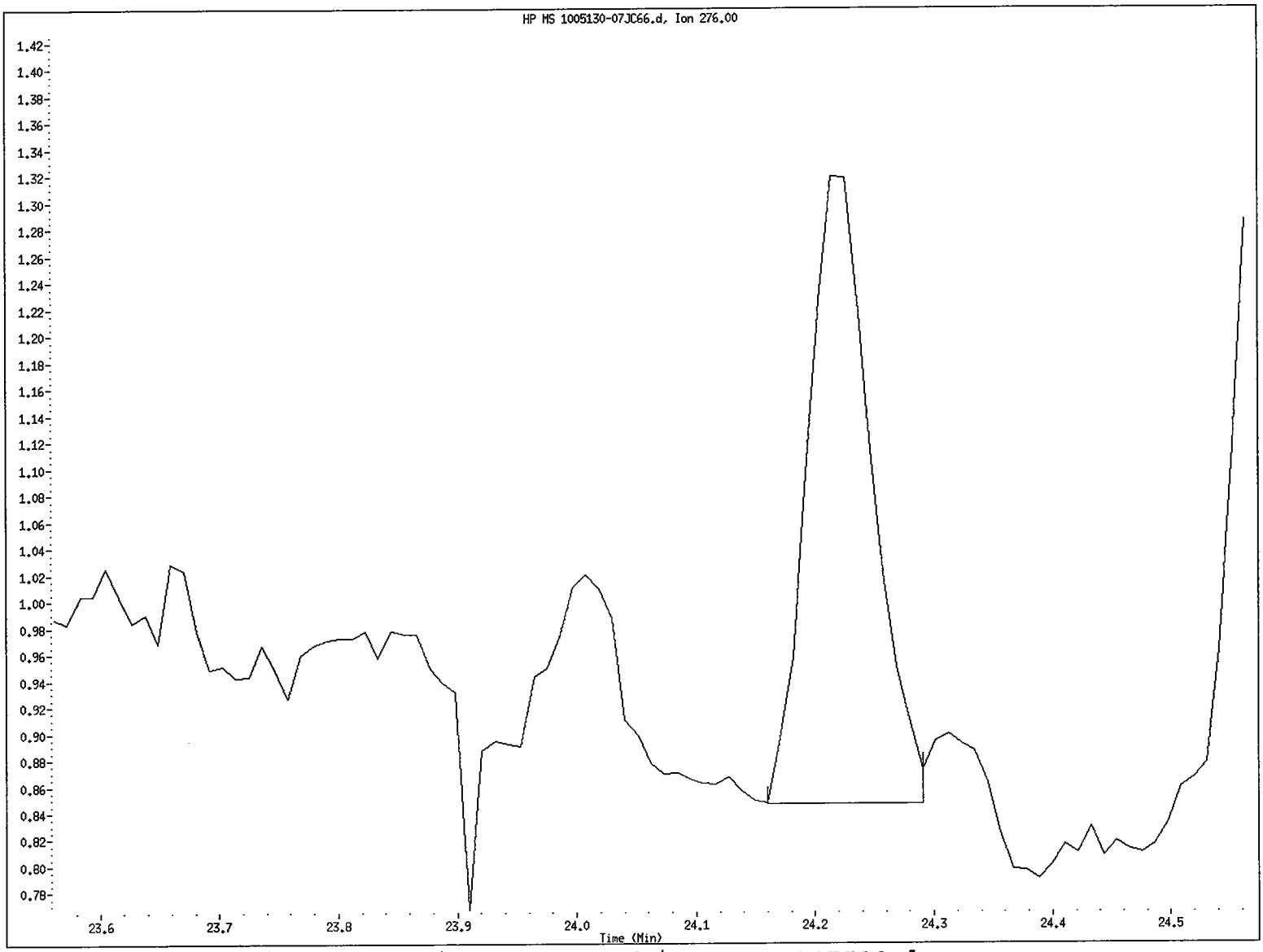
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Injection Date: 01-JUN-2010 06:05
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1

Compound: Benzo(a)pyrene
CAS Number: 50-32-8





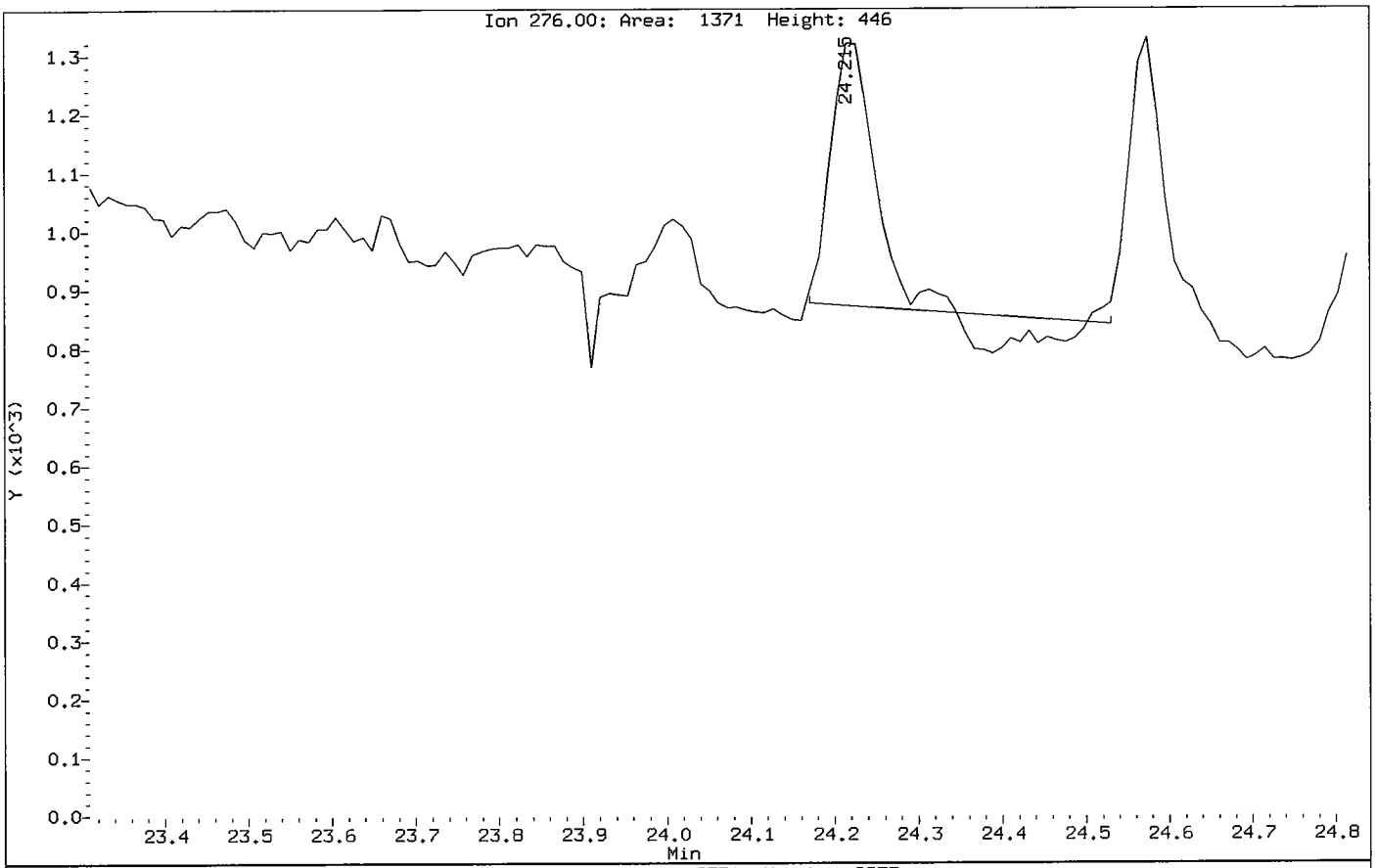
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 1794 Manually integrated

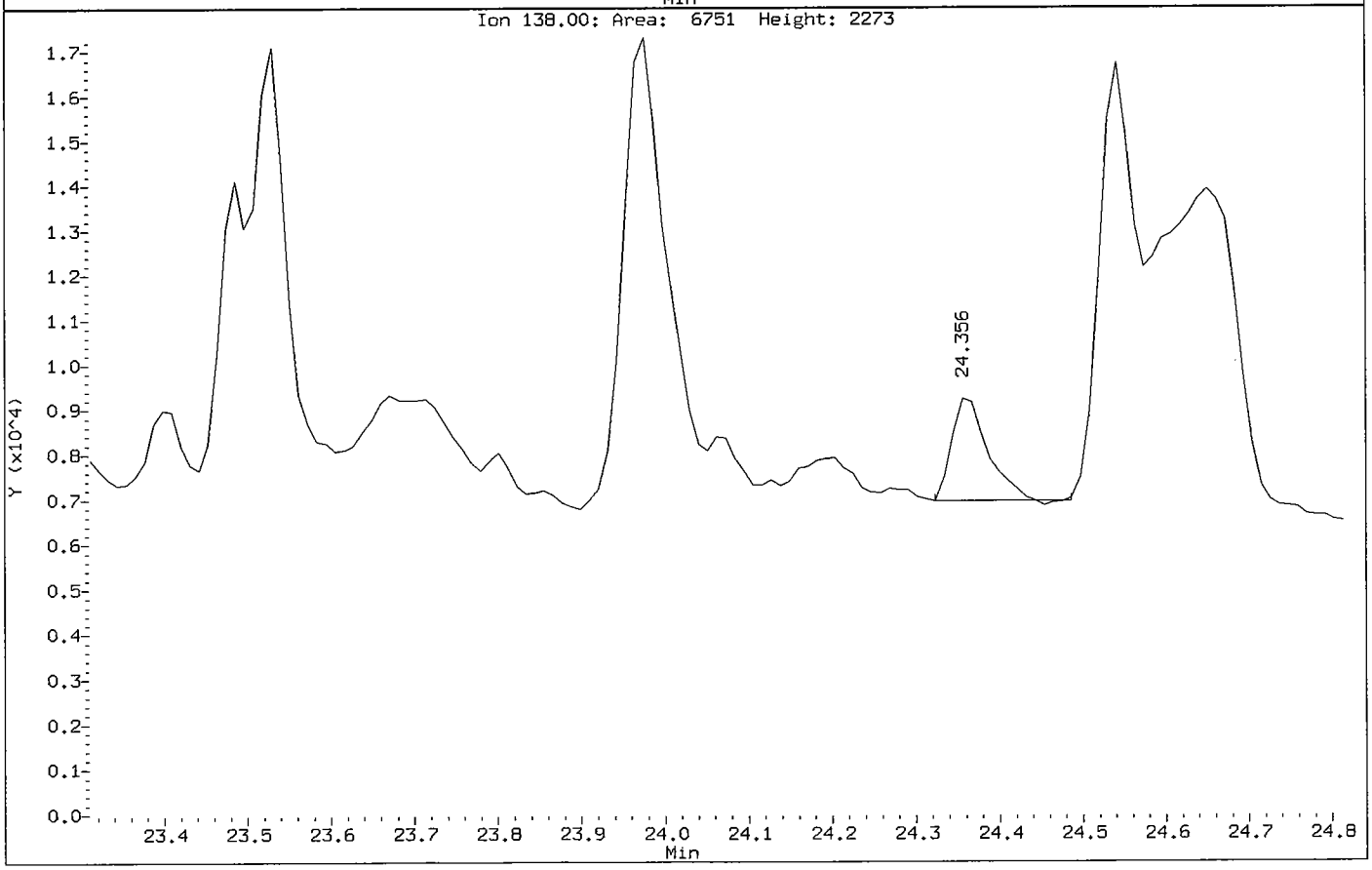


File name: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Client ID: SS50-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 06:05
Retention Time: 24.21
Operator ID: 2743

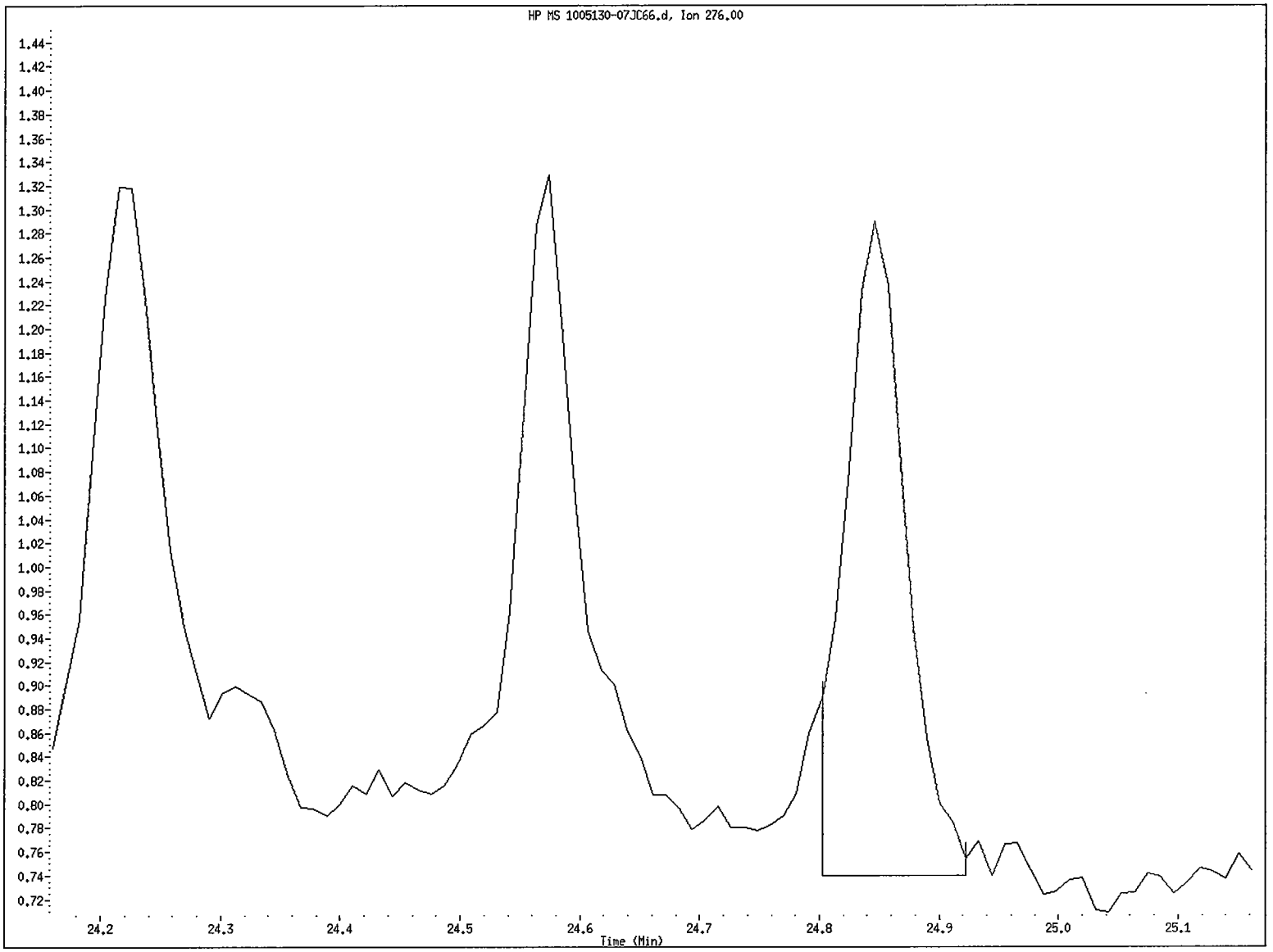
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Injection Date: 01-JUN-2010 06:05
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





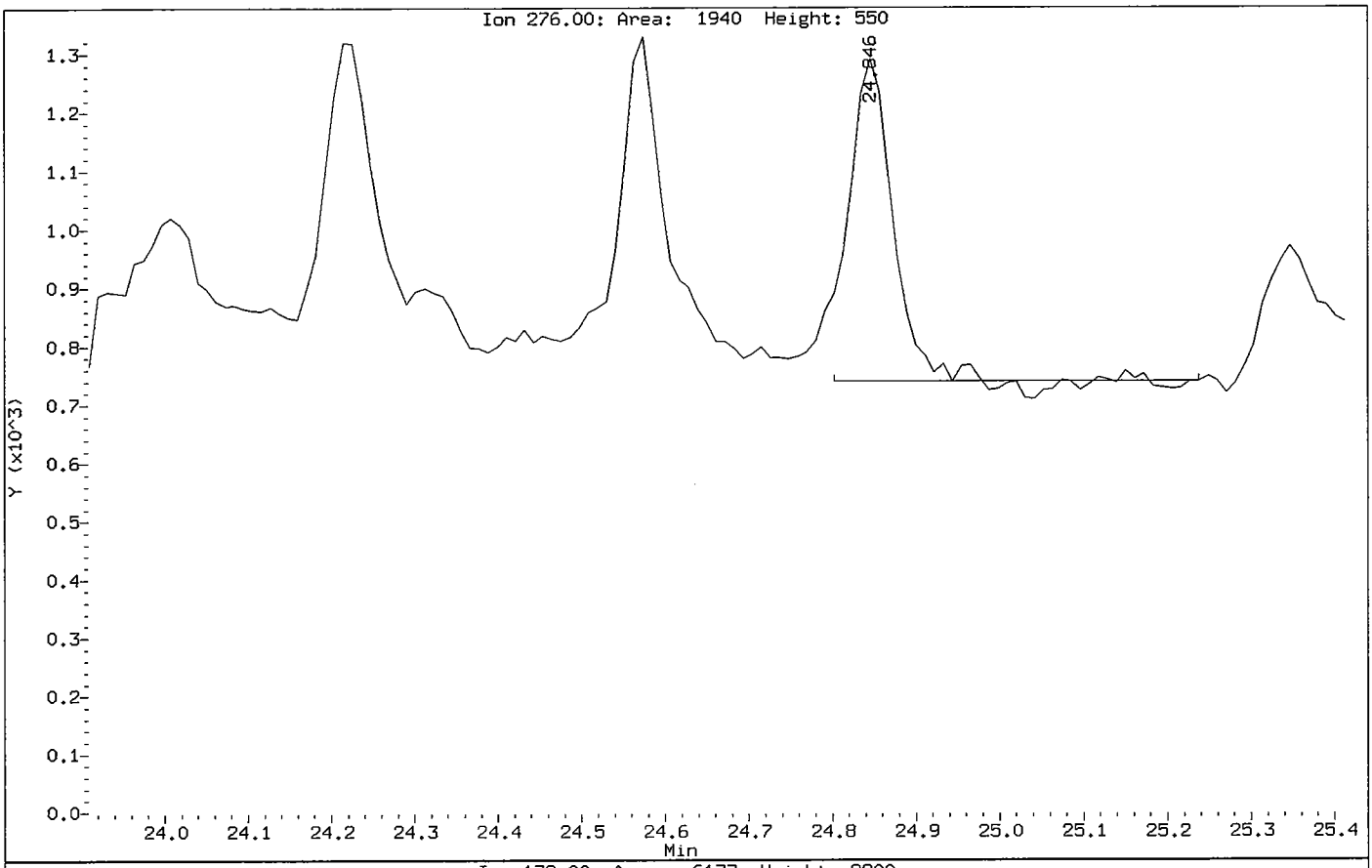
Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 1981 Manually integrated

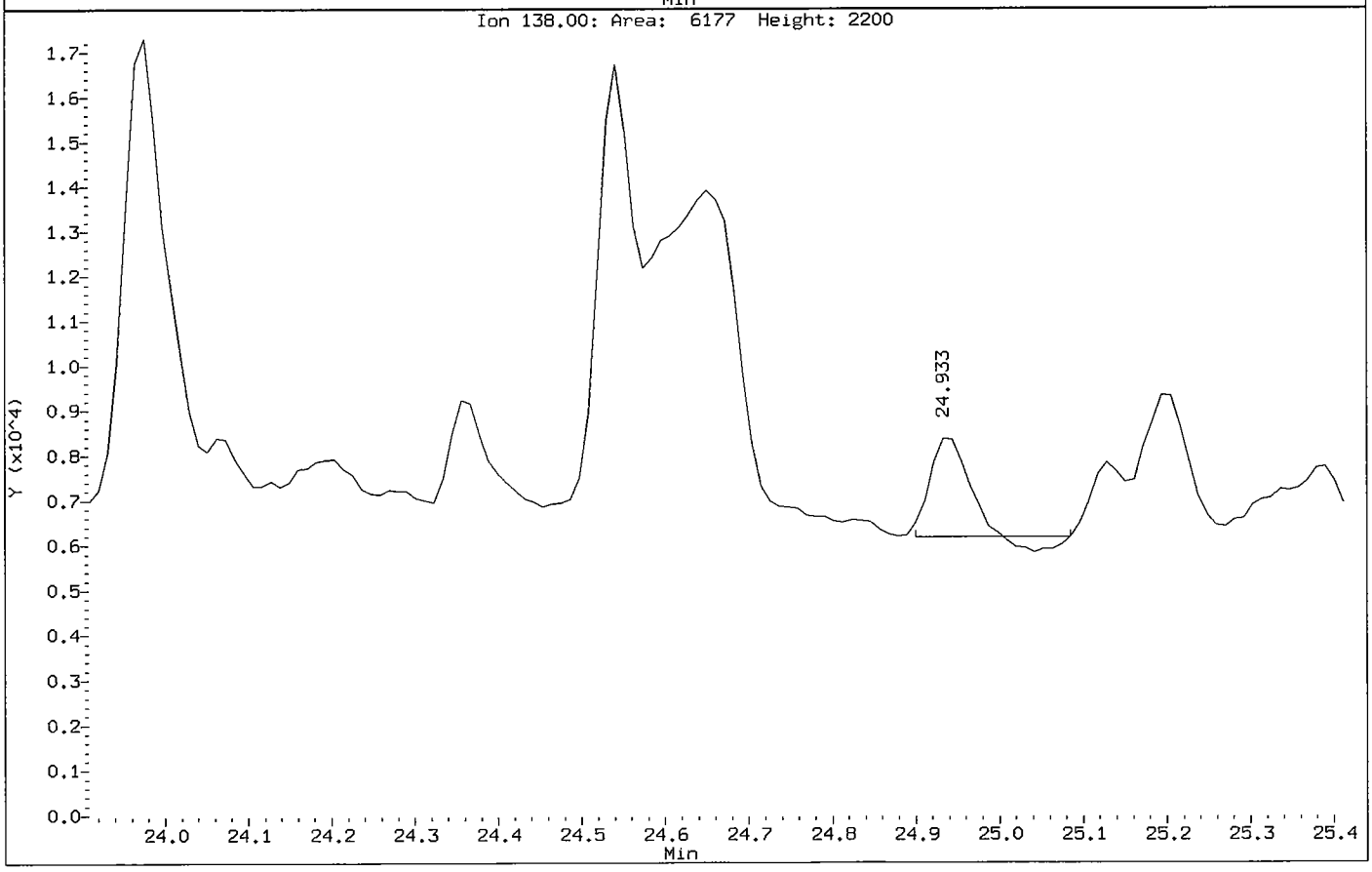


File name: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Client ID: SS50-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 06:05
Retention Time: 24.85
Operator ID: 2743

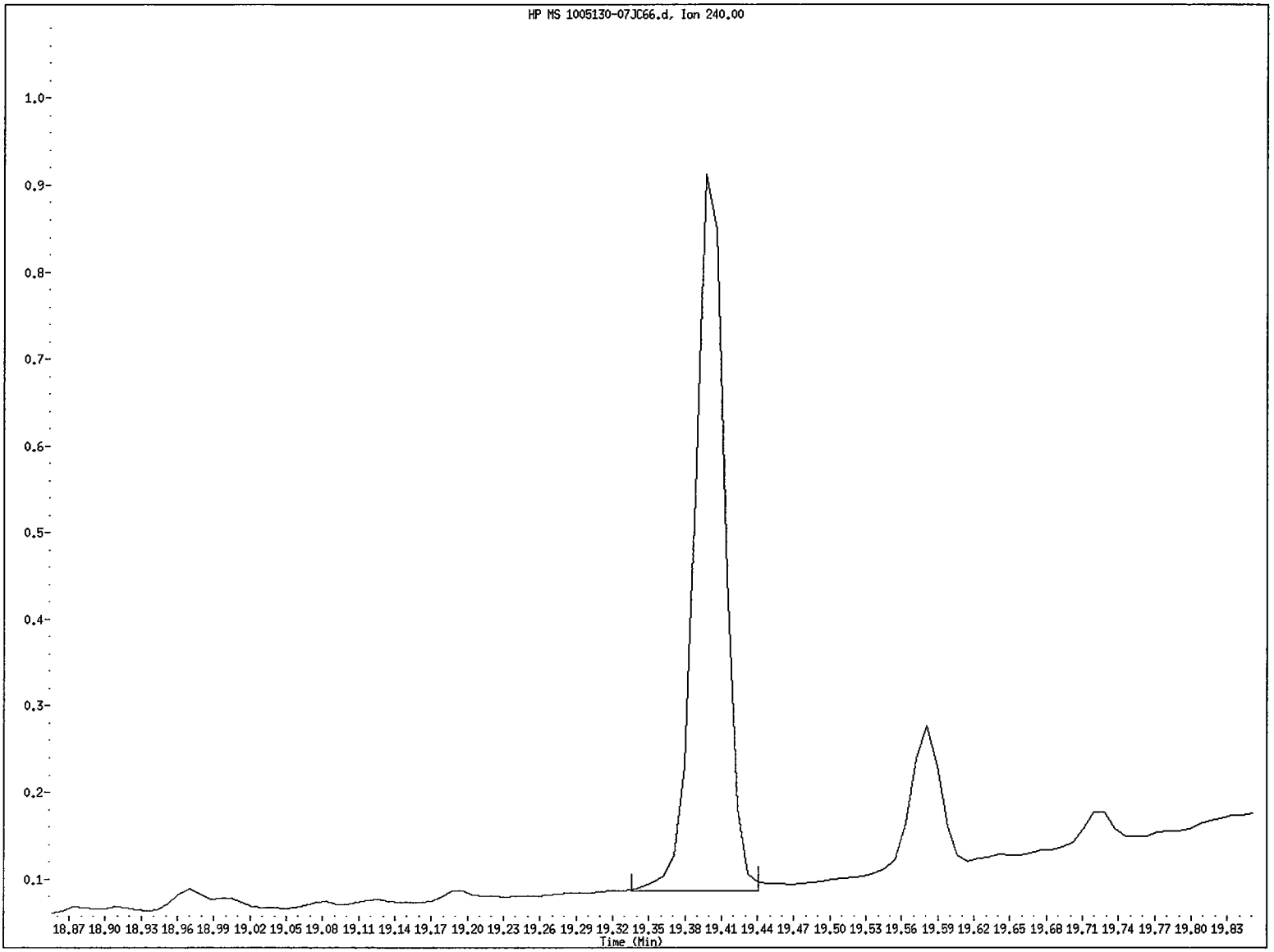
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Injection Date: 01-JUN-2010 06:05
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





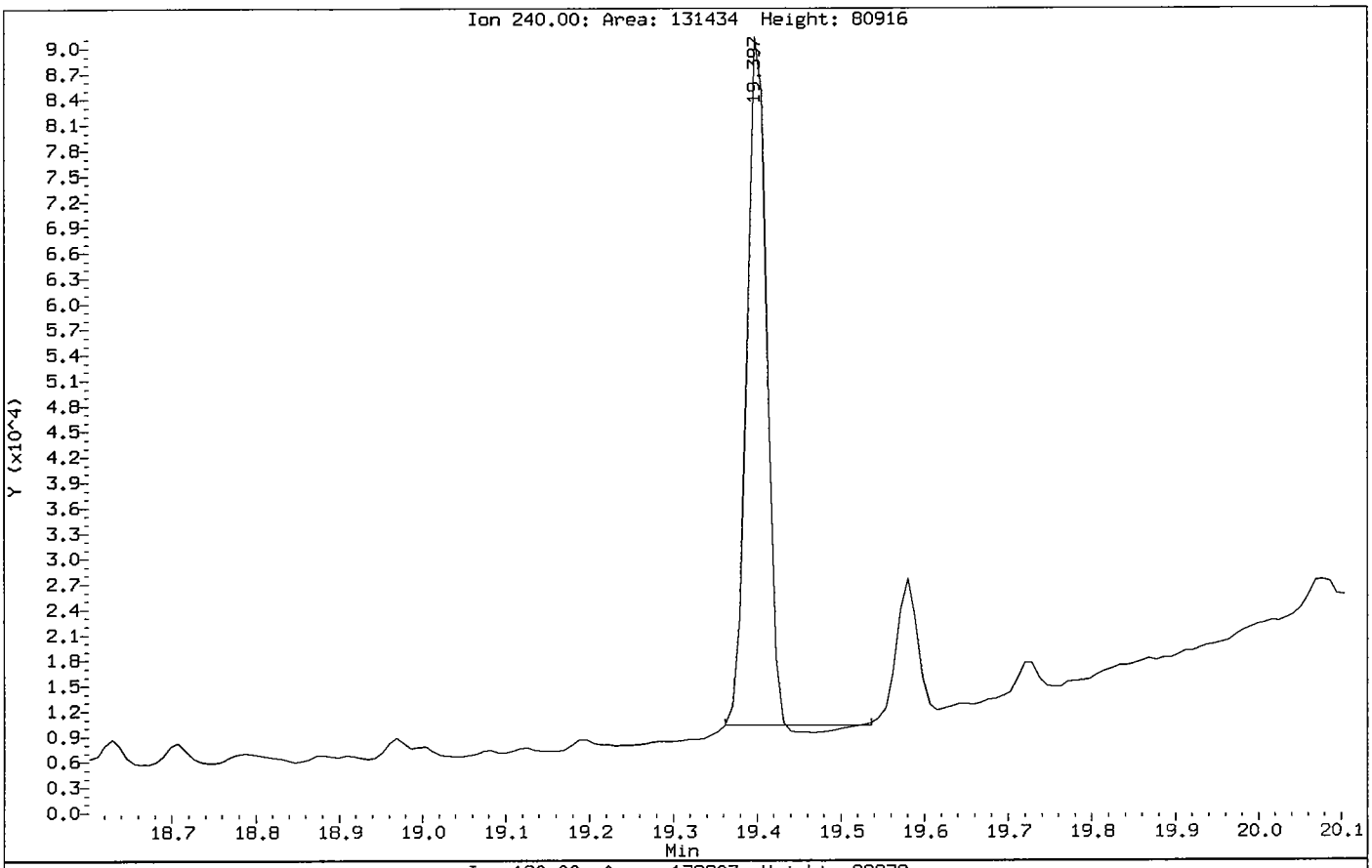
Chrysene-d12 CAS Number 1719-03-5 Area = 144072 Manually integrated

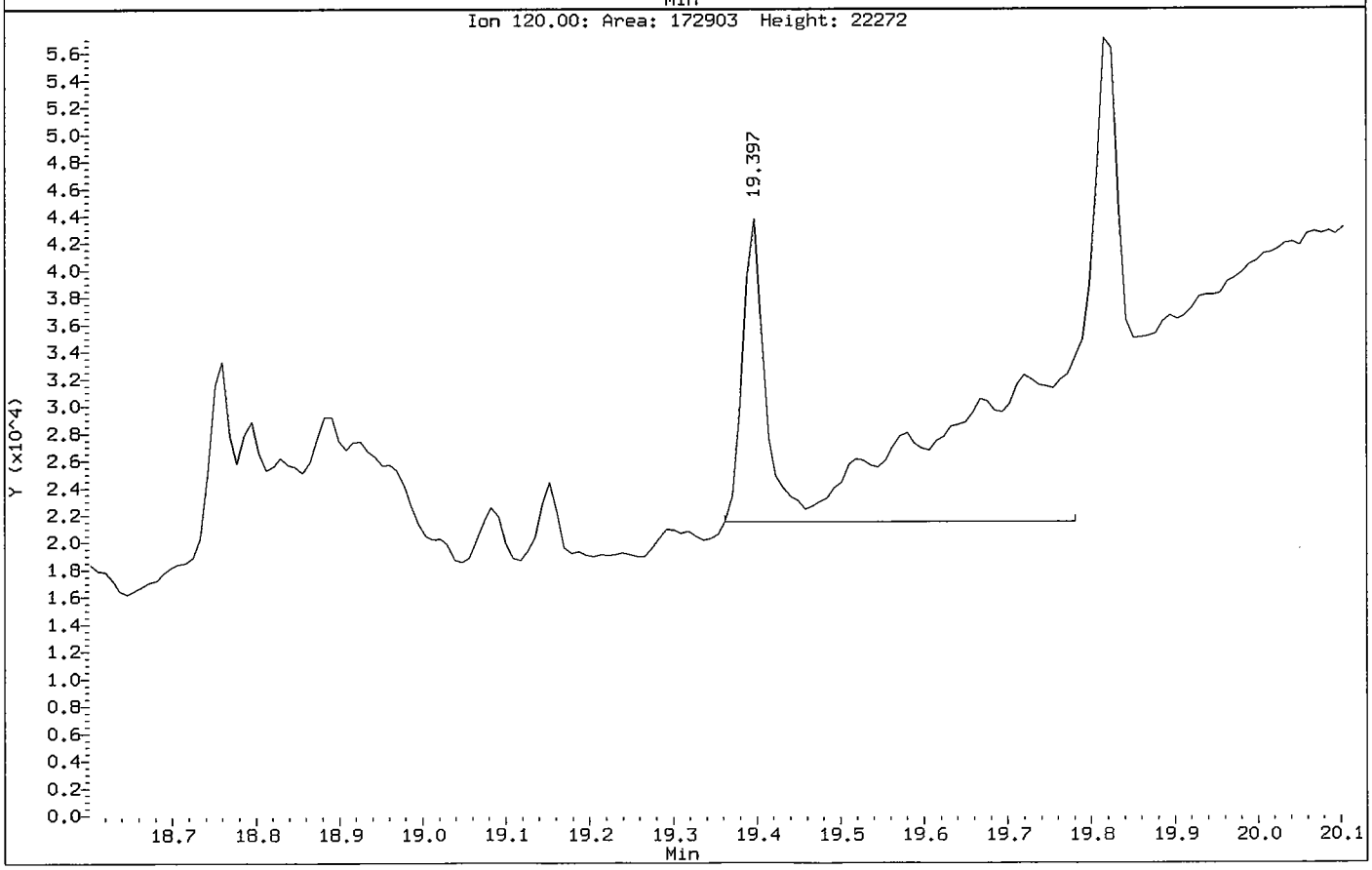


File name: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Client ID: SS50-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 06:05
Retention Time: 19.40
Operator ID: 2743

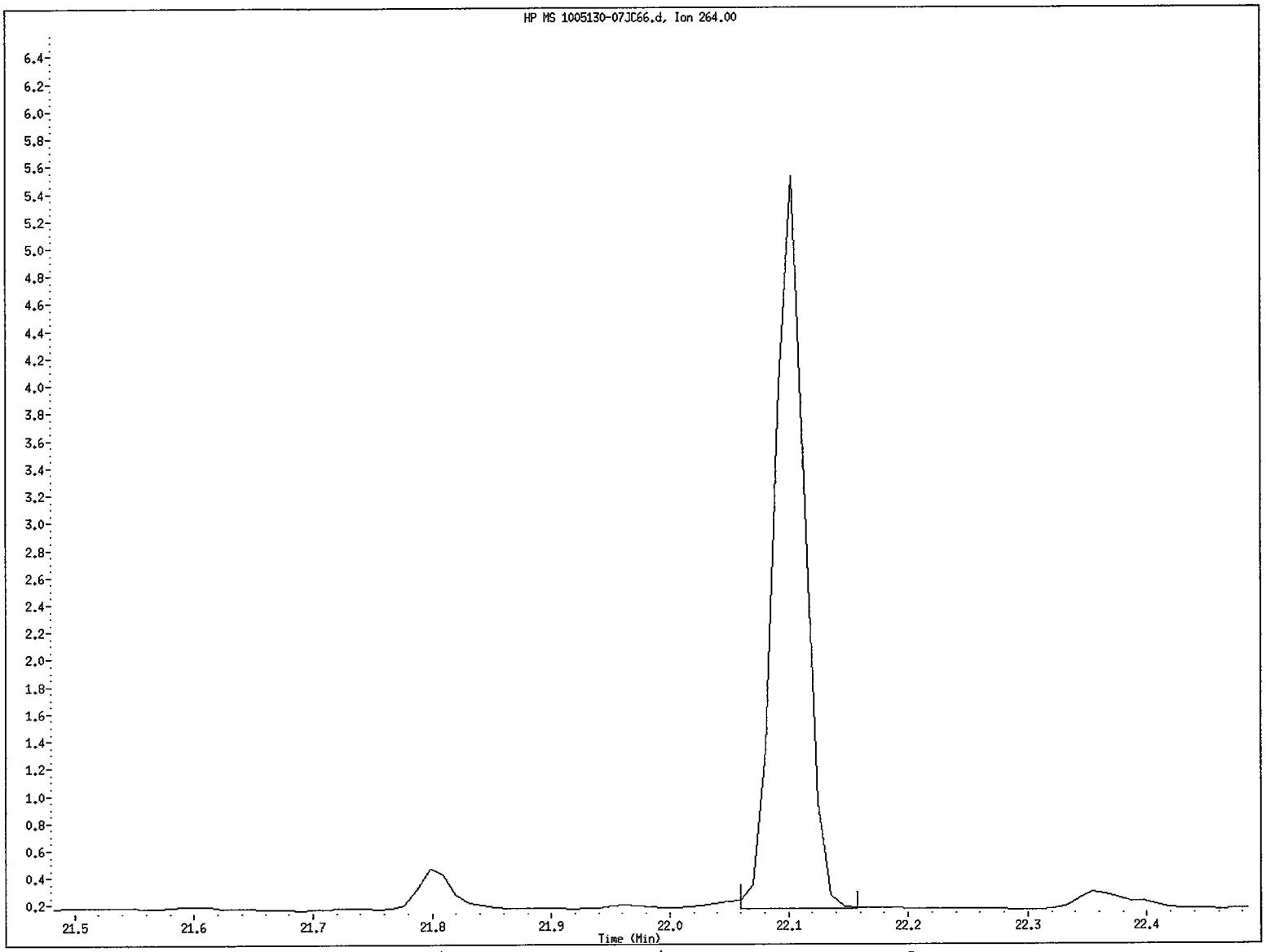
Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Injection Date: 01-JUN-2010 06:05
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1

Compound: Chrysene-d12
CAS Number: 1719-03-5





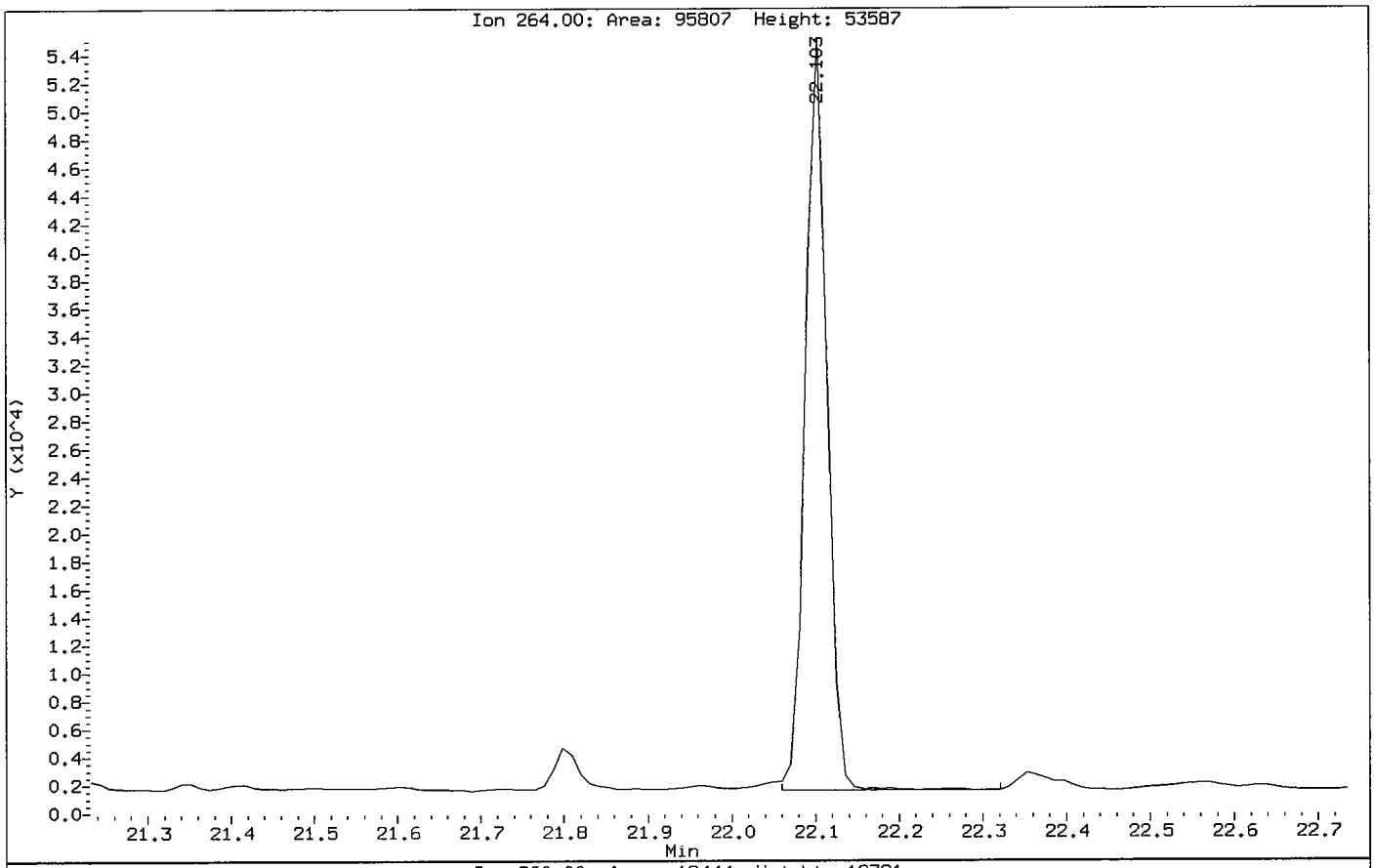
Perylene-d12 CAS Number 1520-96-3 Area = 95471 Manually integrated

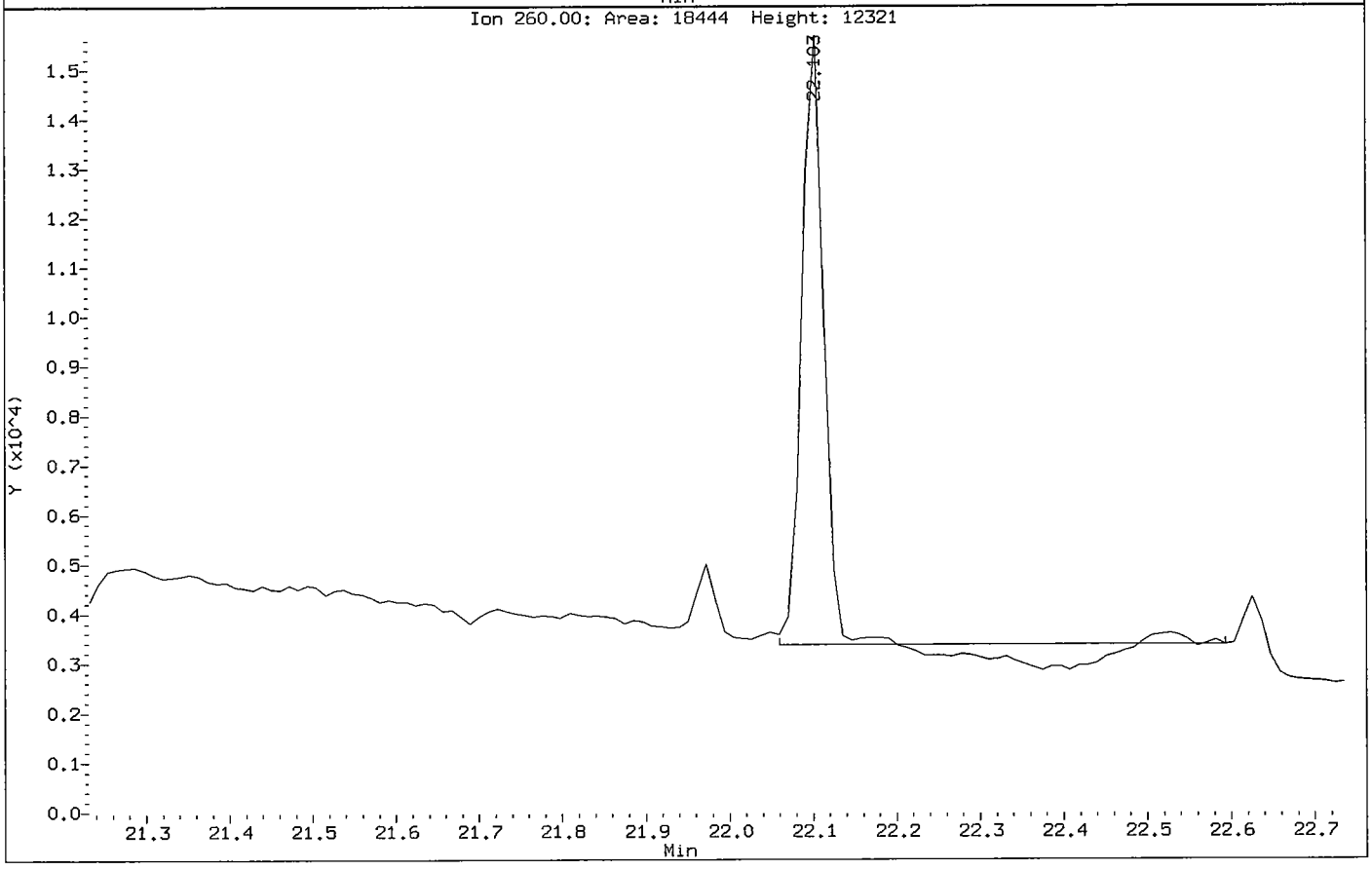


File name: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Client ID: SS50-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 06:05
Retention Time: 22.10
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d
Injection Date: 01-JUN-2010 06:05
Instrument: 5972hp66.i
Client Sample ID: S550-0-1

Compound: Perylene-d12
CAS Number: 1520-96-3





Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

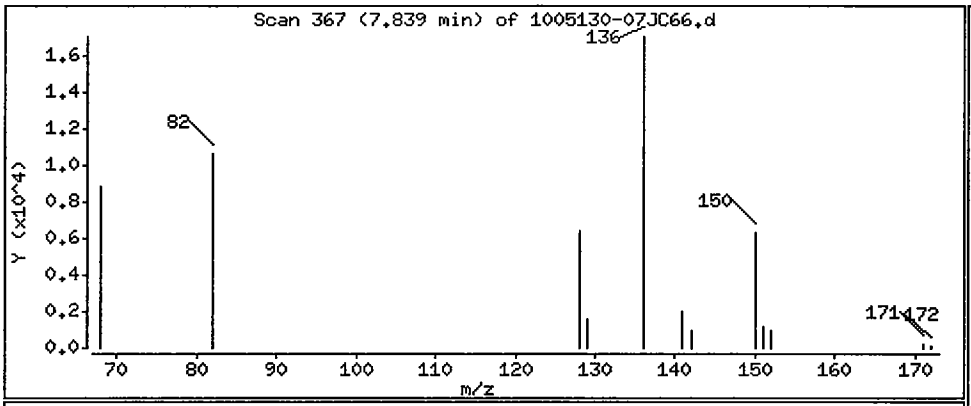
Client ID: SS50-0-1 Instrument: 5972hp66.i

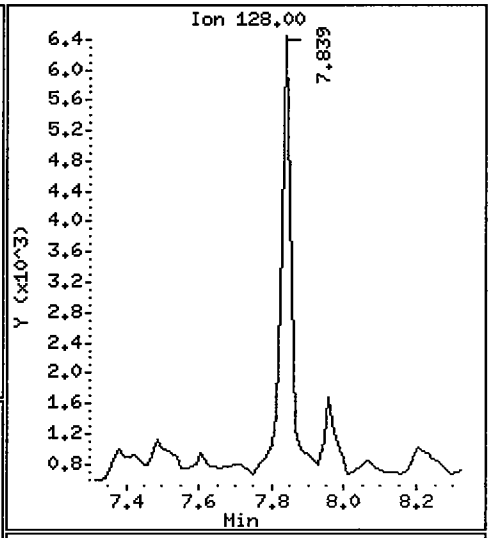
Sample Info: 1005130-07:2743

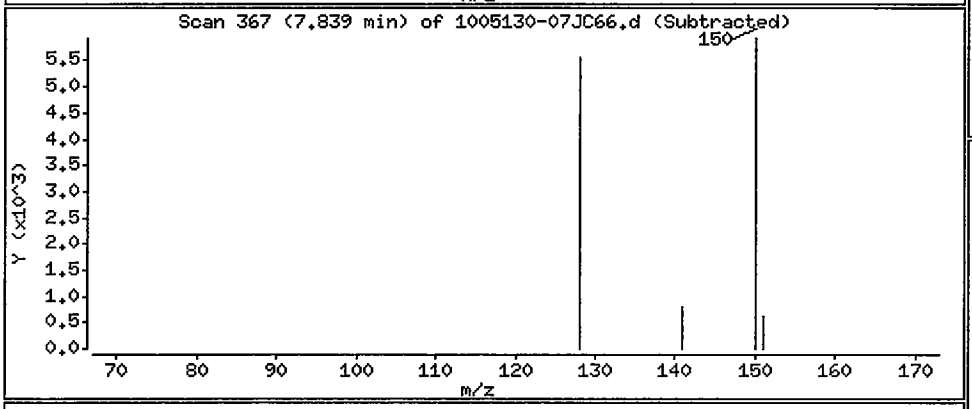
Volume Injected (uL): 2.0 Operator: 2743

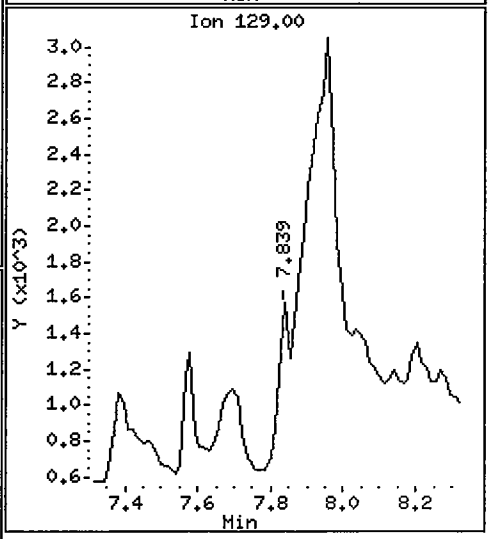
Column phase: Rtx-5MS Column diameter: 0.32

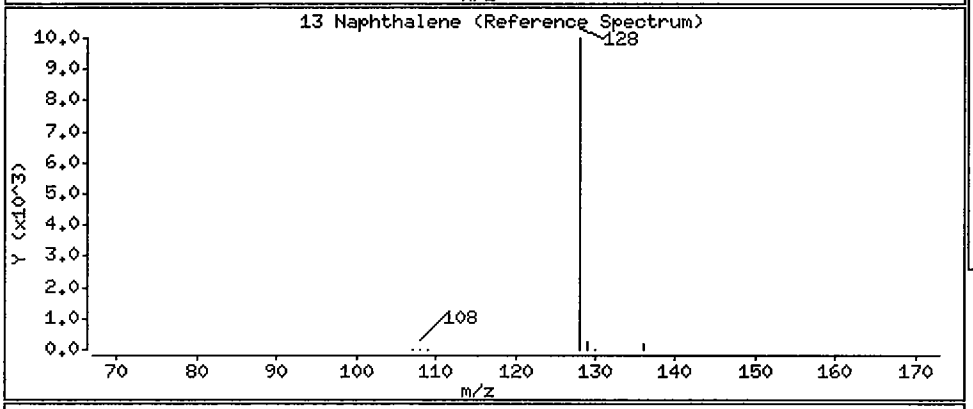
13 Naphthalene Concentration: 2.0 ug/Kg

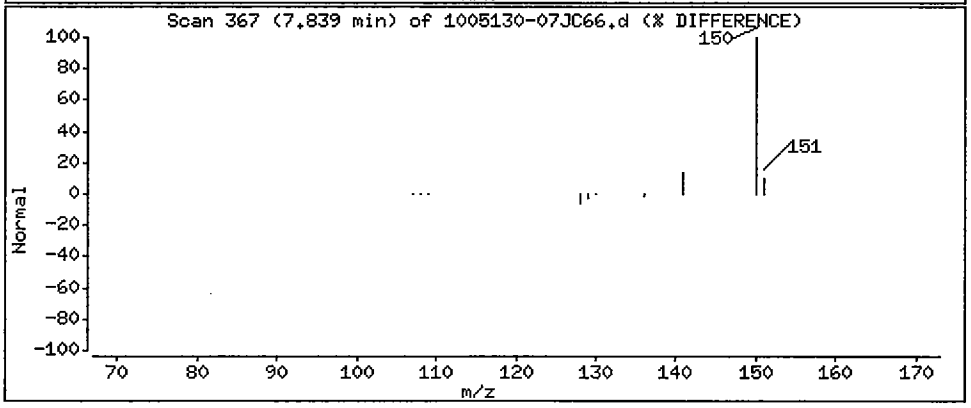












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

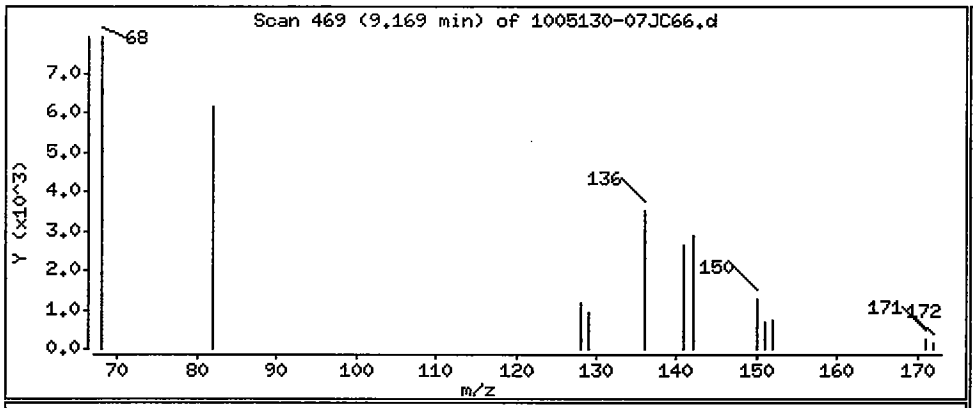
Client ID: SS50-0-1 Instrument: 5972hp66.i

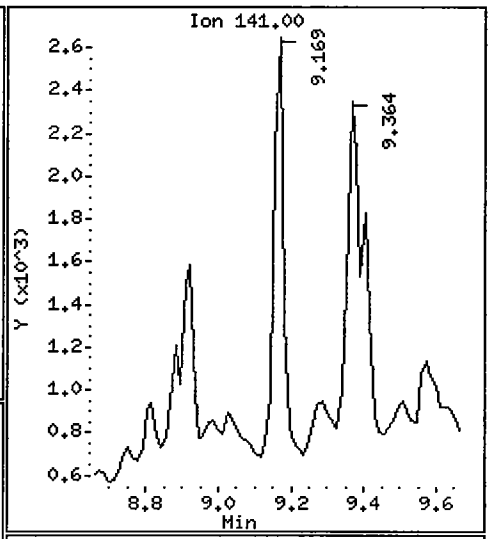
Sample Info: 1005130-07:2743

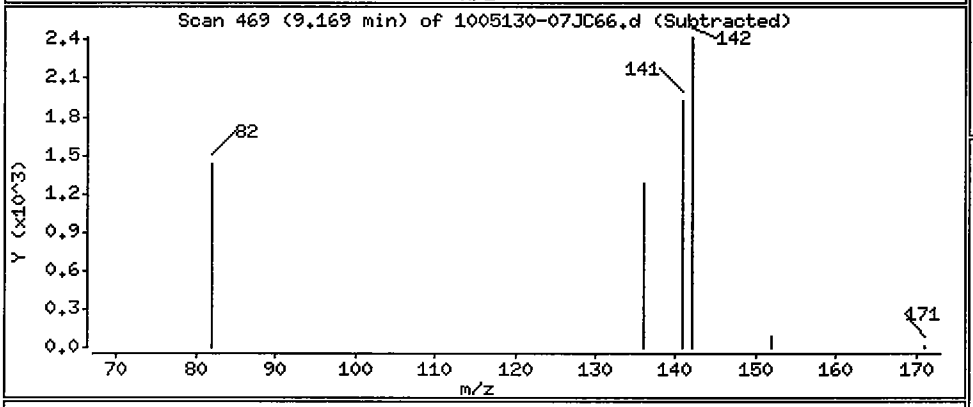
Volume Injected (uL): 2.0 Operator: 2743

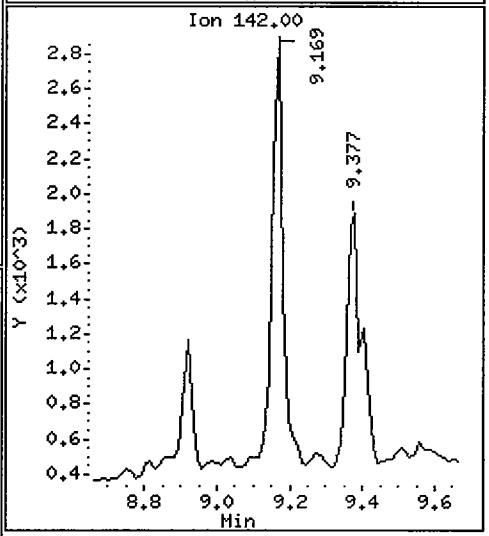
Column phase: Rtx-5MS Column diameter: 0.32

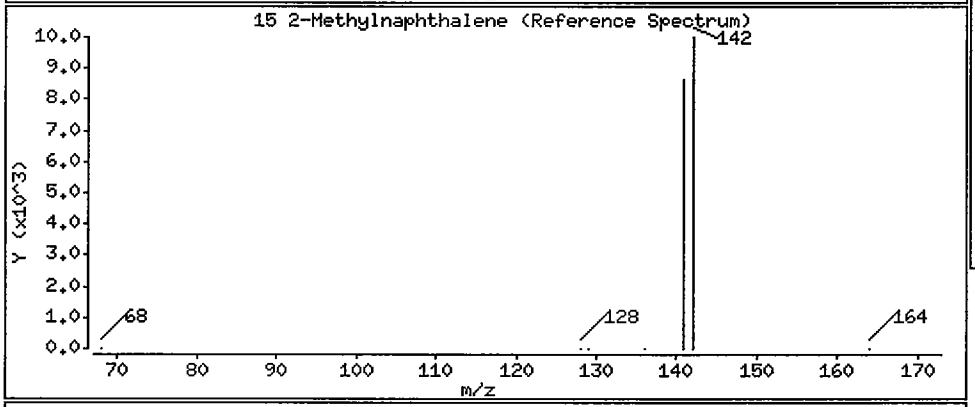
15 2-Methylnaphthalene Concentration: 1.1 ug/Kg

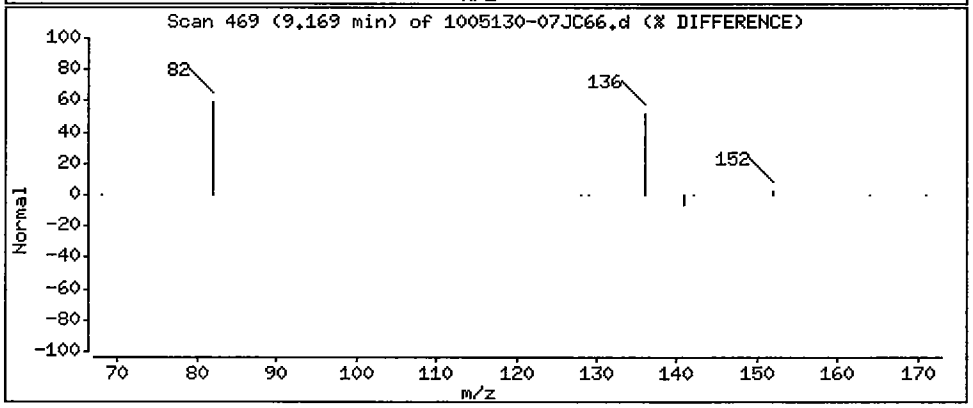












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

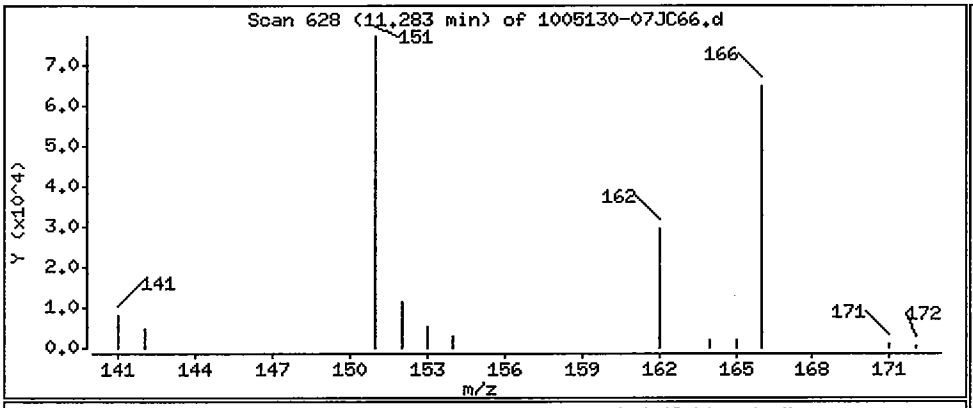
Client ID: SS50-0-1 Instrument: 5972hp66.i

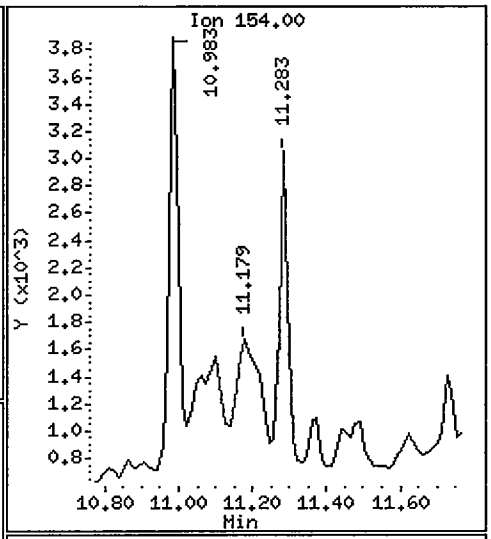
Sample Info: 1005130-07:2743

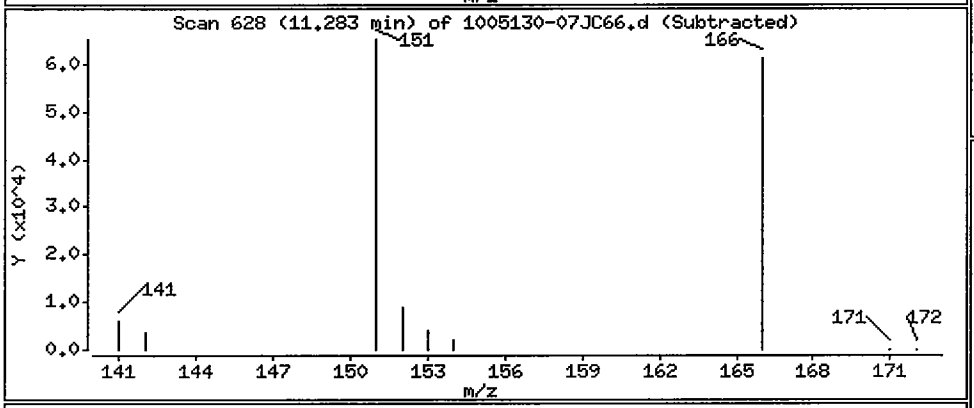
Volume Injected (uL): 2.0 Operator: 2743

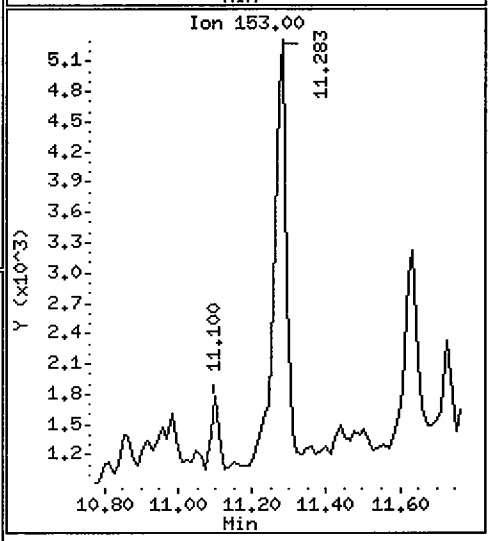
Column phase: Rtx-5MS Column diameter: 0.32

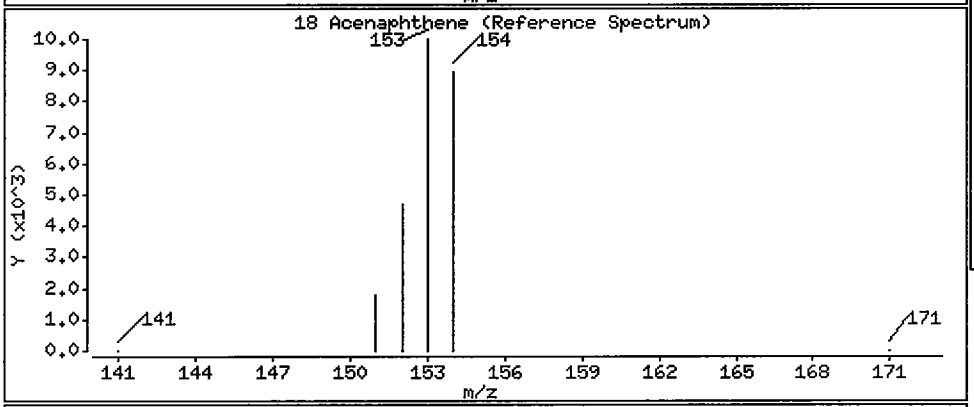
18 Acenaphthene Concentration: 1.3 ug/Kg

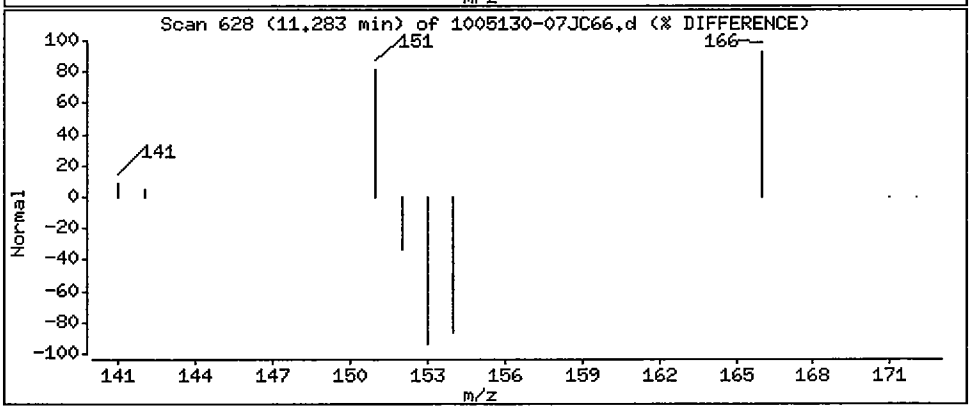












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

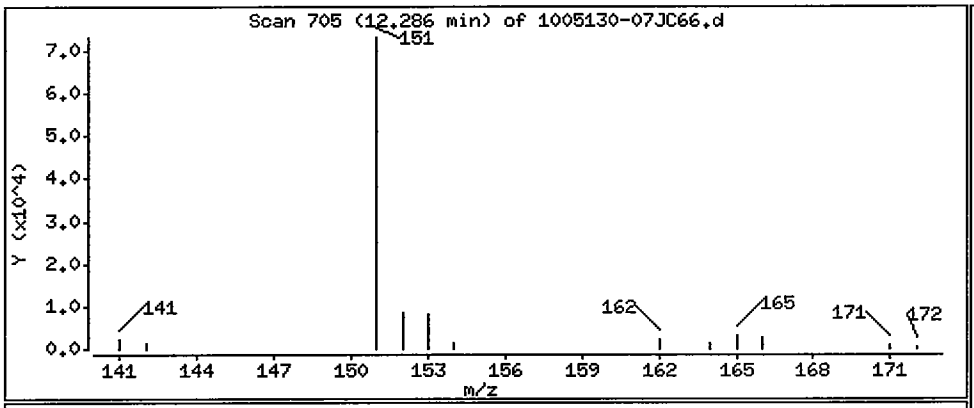
Client ID: SS50-0-1 Instrument: 5972hp66.i

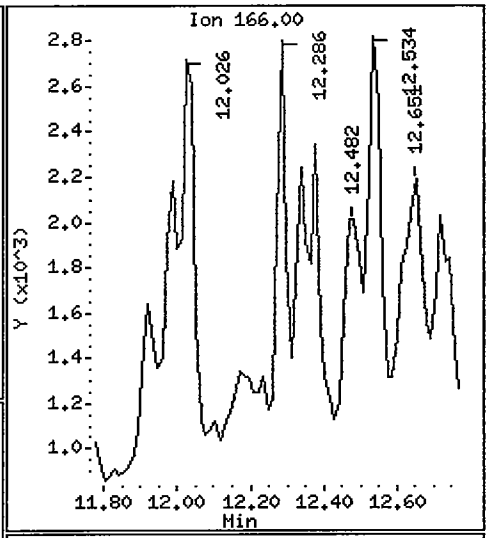
Sample Info: 1005130-07:2743

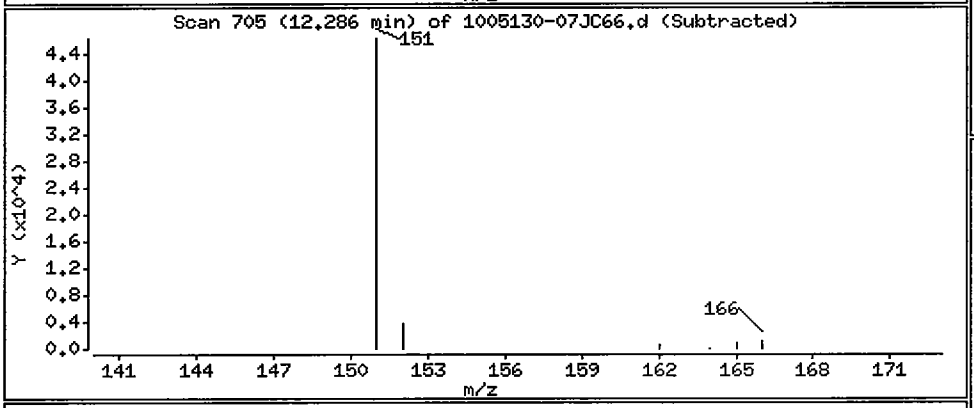
Volume Injected (uL): 2.0 Operator: 2743

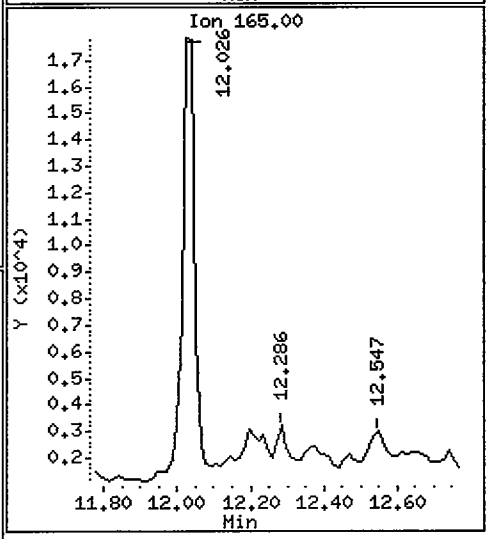
Column phase: Rtx-5MS Column diameter: 0.32

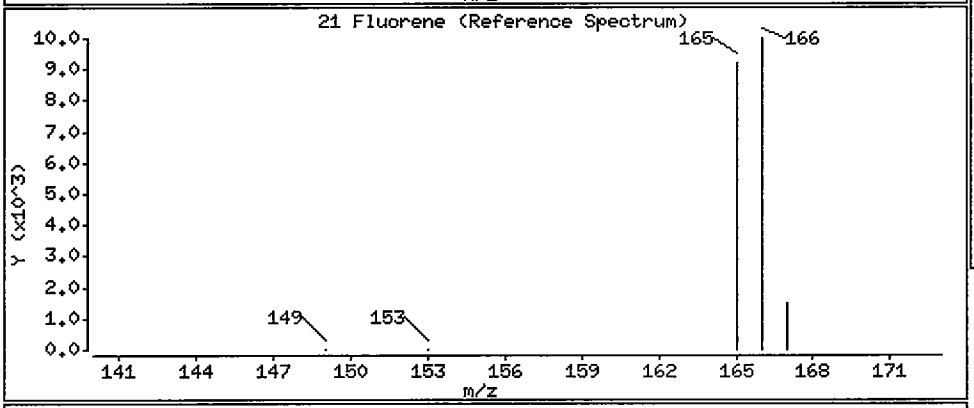
21 Fluorene Concentration: 0.69 ug/Kg

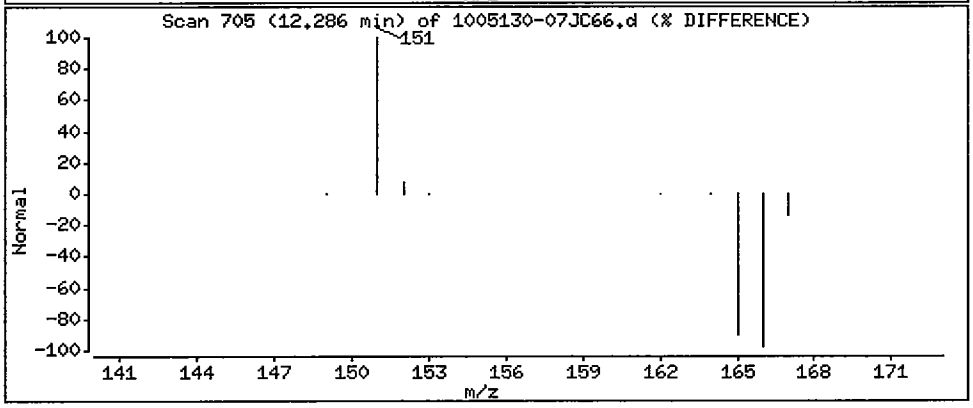












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

Client ID: SS50-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-07:2743

Volume Injected (uL): 2.0

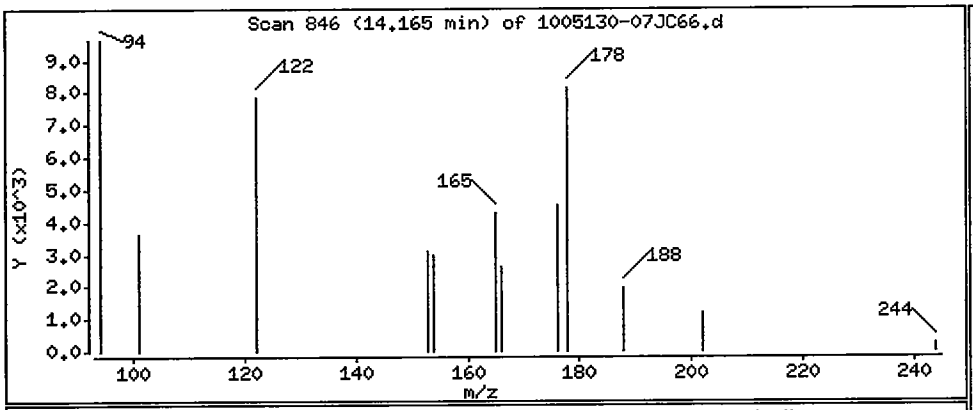
Operator: 2743

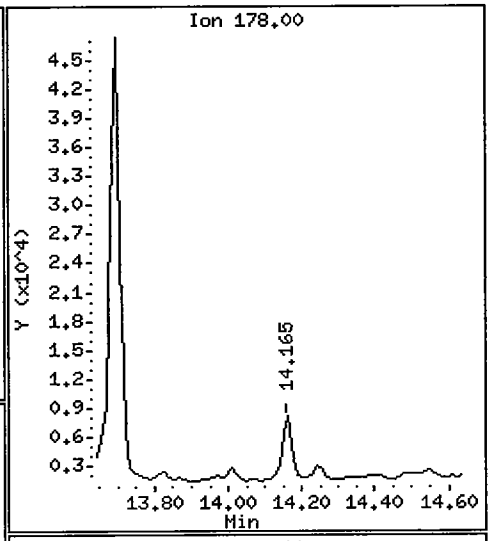
Column phase: Rtx-5MS

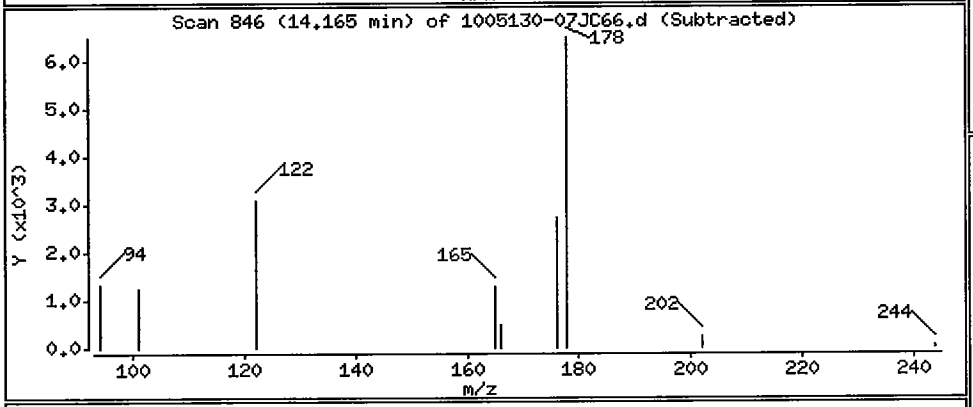
Column diameter: 0.32

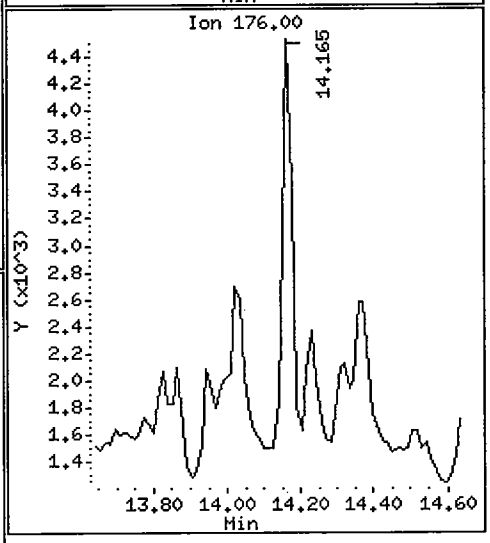
25 Phenanthrene

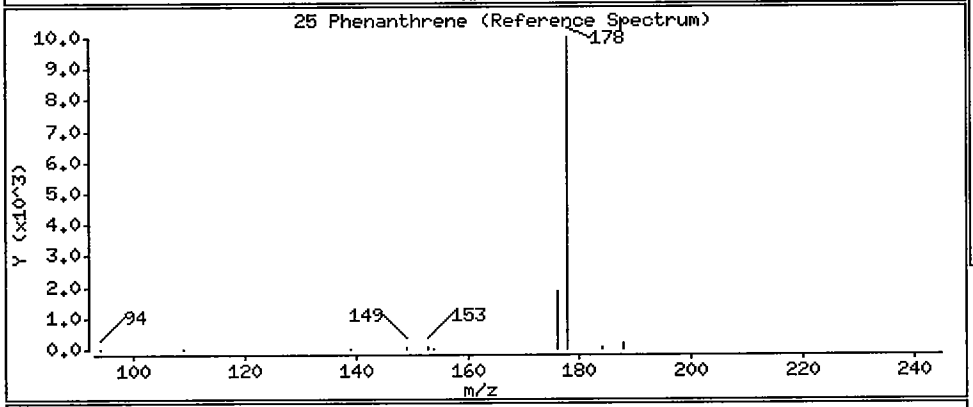
Concentration: 2.5 ug/Kg

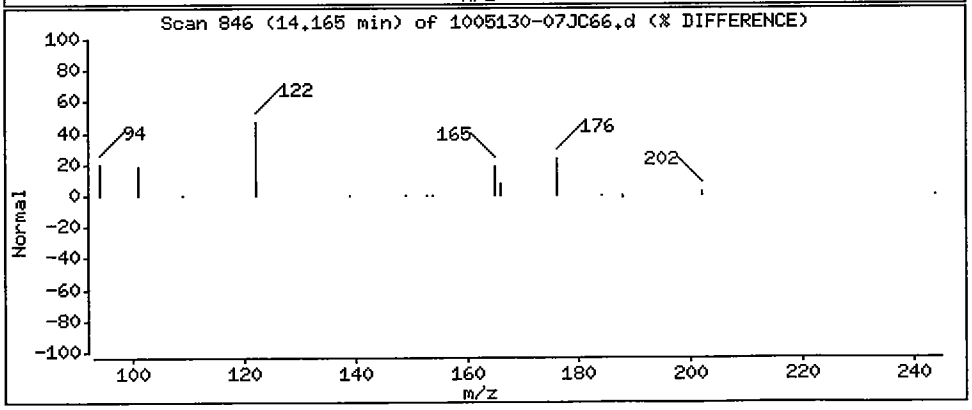












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

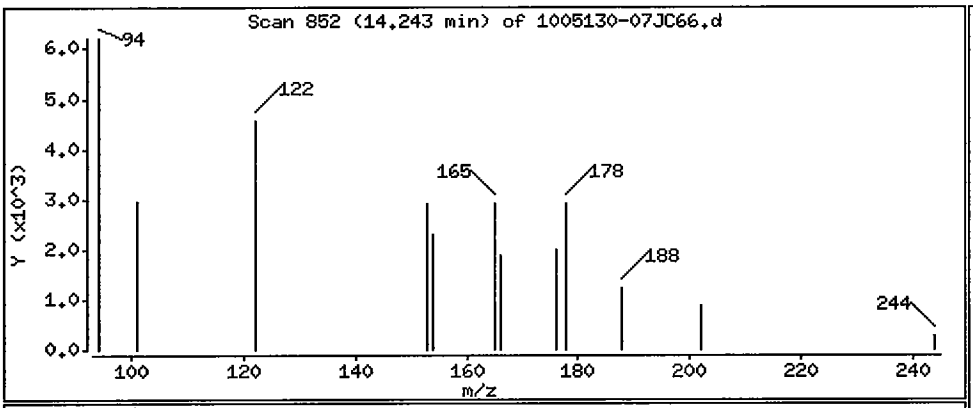
Client ID: SS50-0-1 Instrument: 5972hp66.i

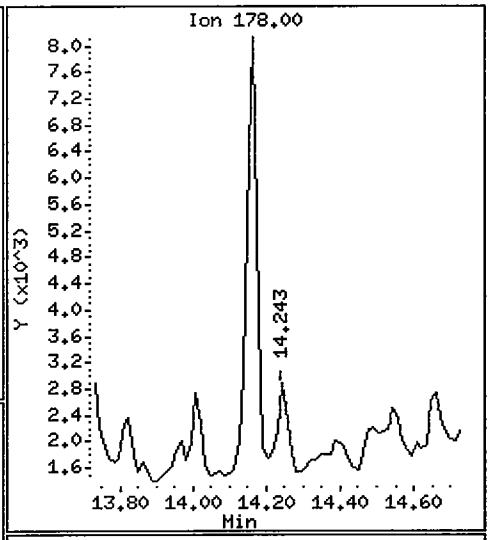
Sample Info: 1005130-07;2743

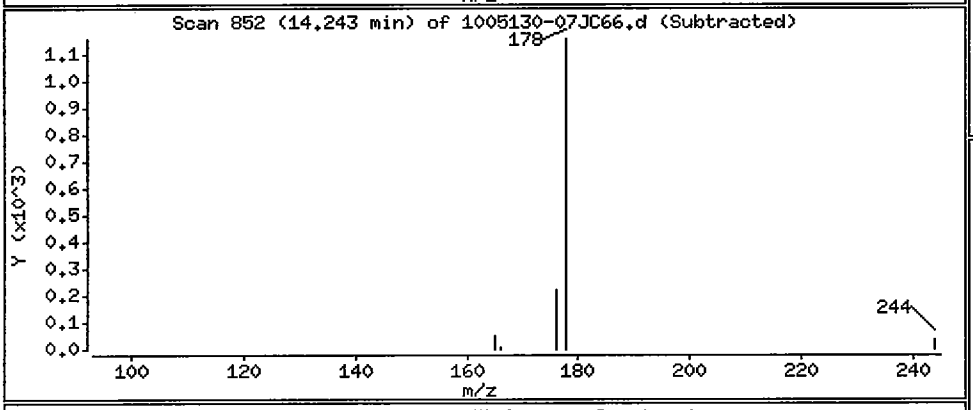
Volume Injected (uL): 2.0 Operator: 2743

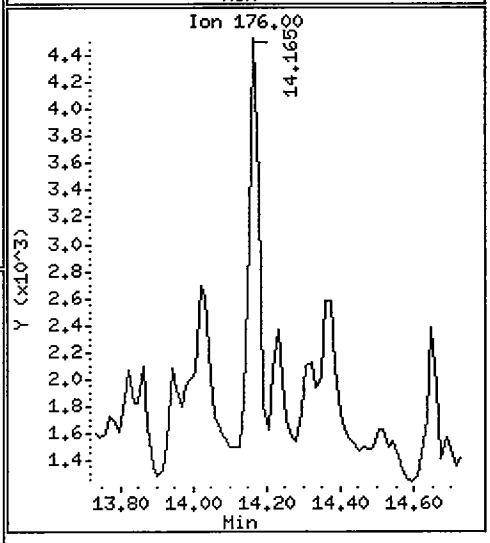
Column phase: Rtx-5MS Column diameter: 0.32

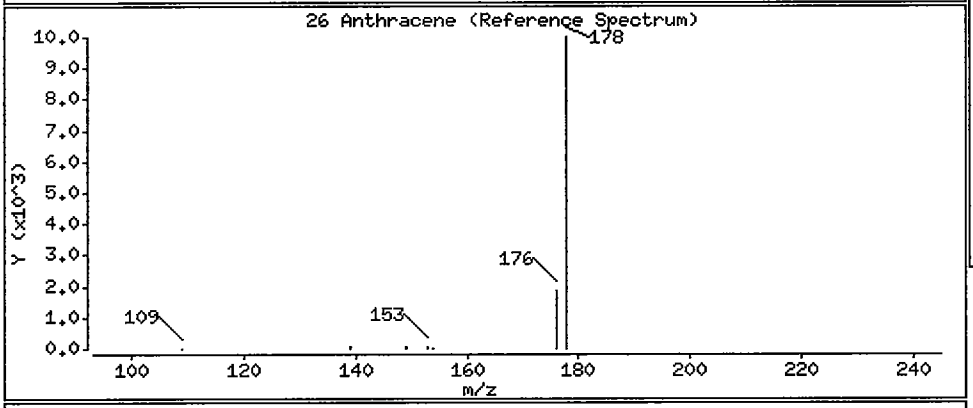
26 Anthracene Concentration: 0.74 ug/Kg

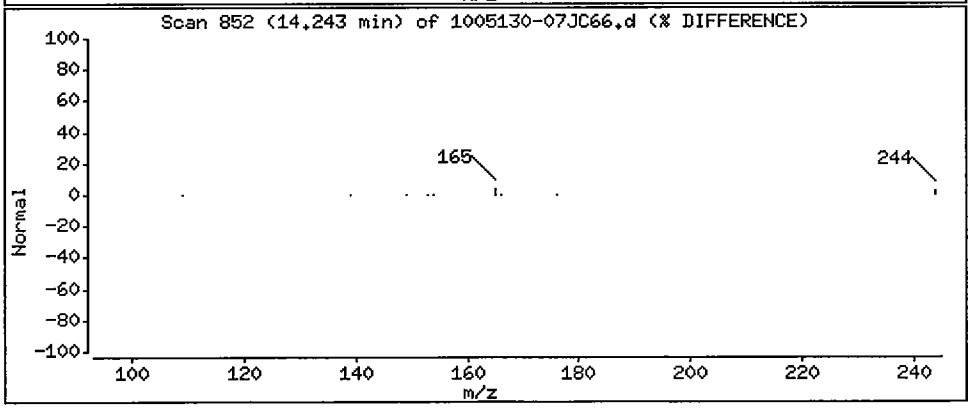












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

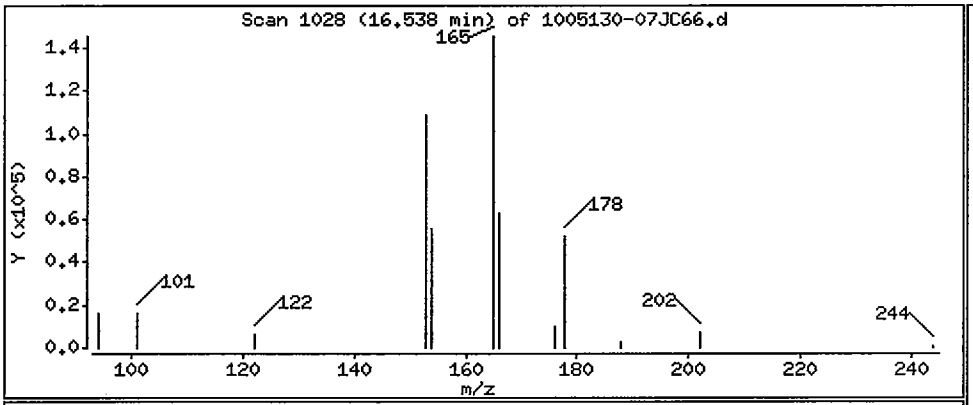
Client ID: SS50-0-1 Instrument: 5972hp66.i

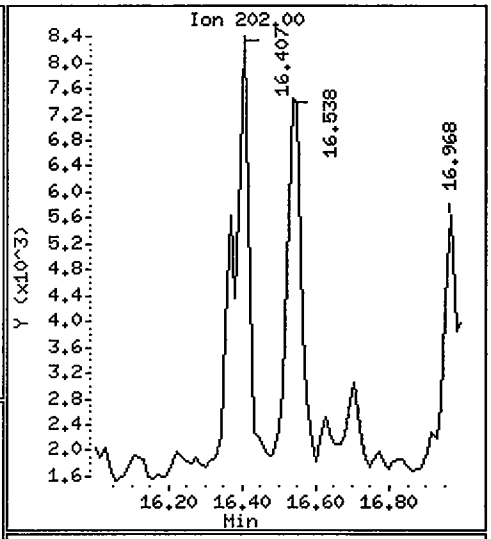
Sample Info: 1005130-07:2743

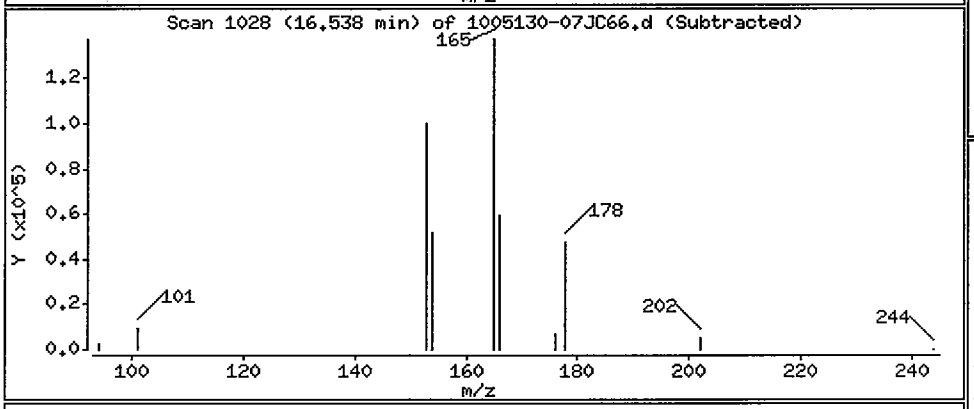
Volume Injected (uL): 2.0 Operator: 2743

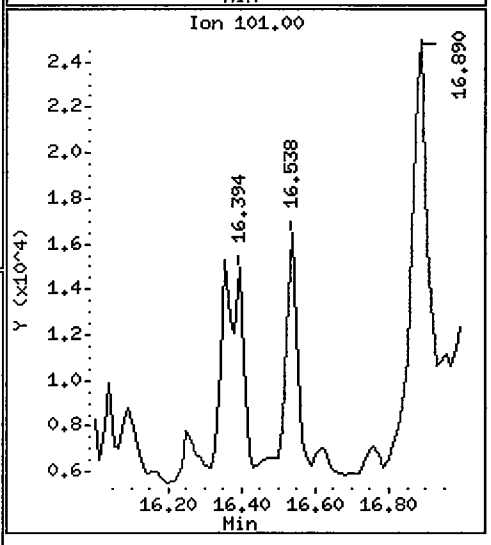
Column phase: Rtx-5MS Column diameter: 0.32

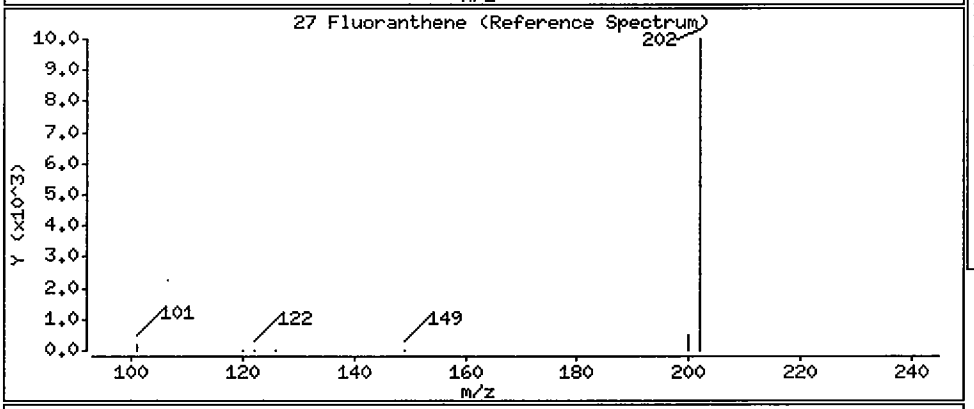
27 Fluoranthene Concentration: 4.3 ug/Kg

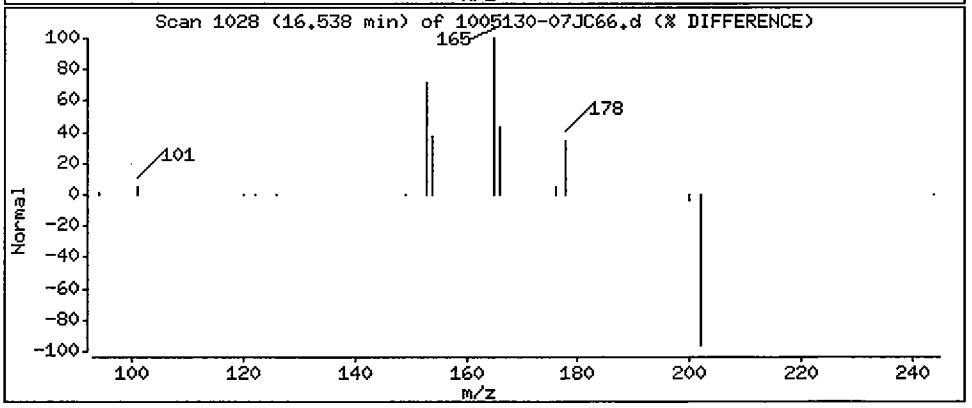












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

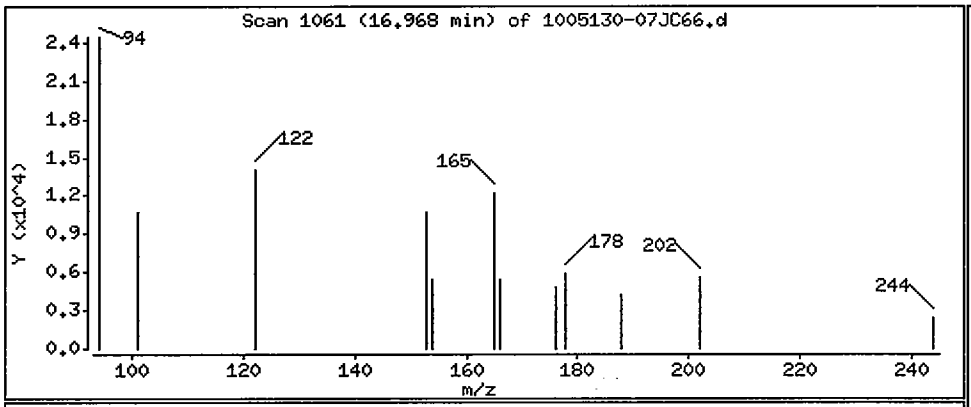
Client ID: SS50-0-1 Instrument: 5972hp66.i

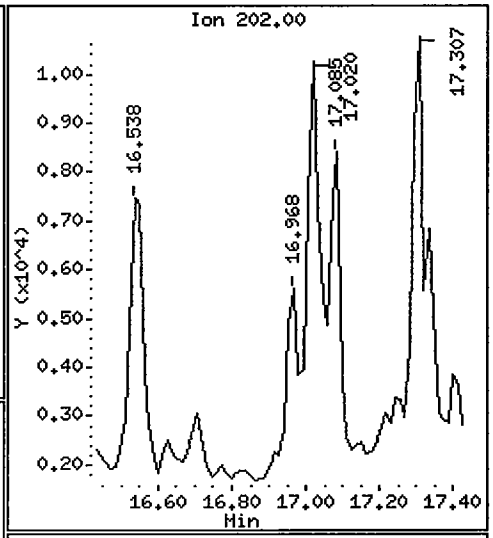
Sample Info: 1005130-07:2743

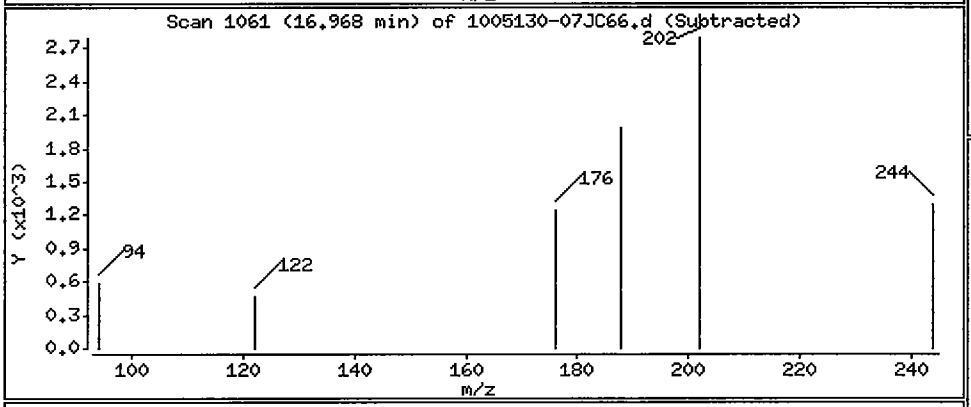
Volume Injected (uL): 2.0 Operator: 2743

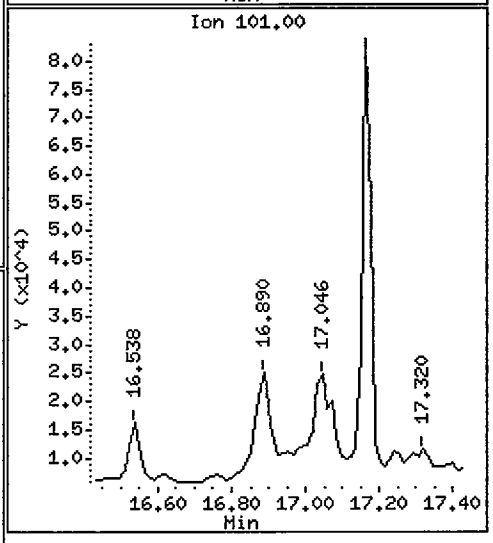
Column phase: Rtx-5MS Column diameter: 0.32

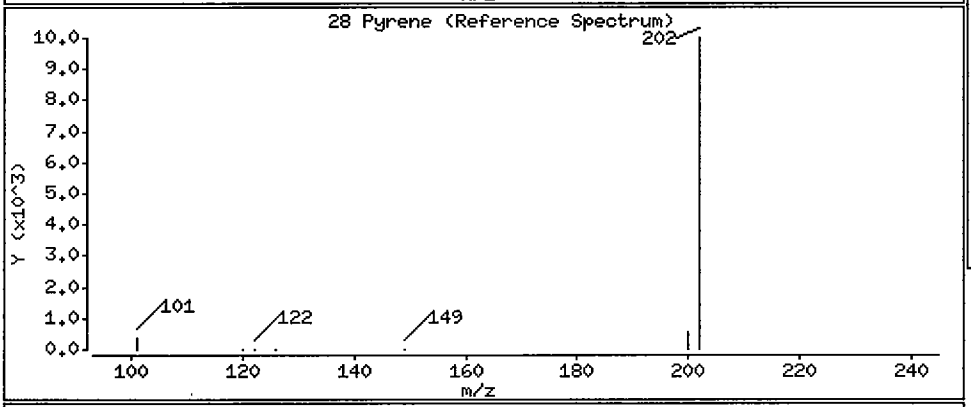
28 Pyrene Concentration: 2.1 ug/Kg

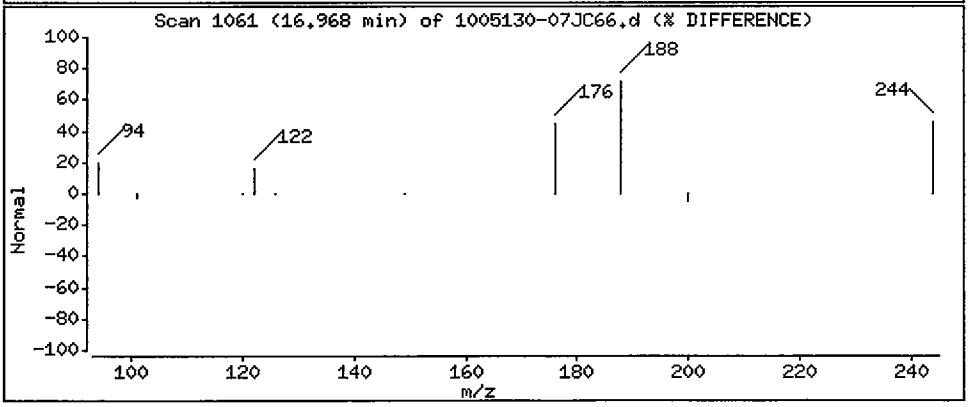












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

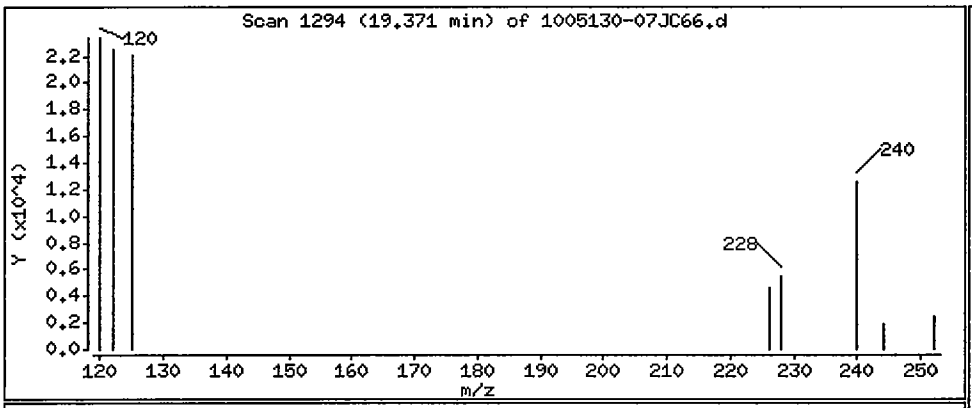
Client ID: SS50-0-1 Instrument: 5972hp66.i

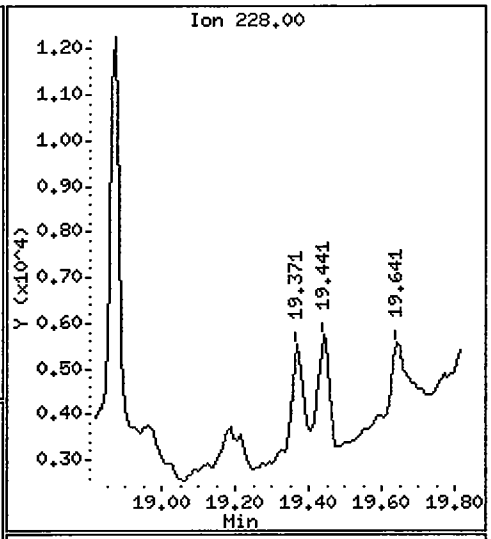
Sample Info: 1005130-07:2743

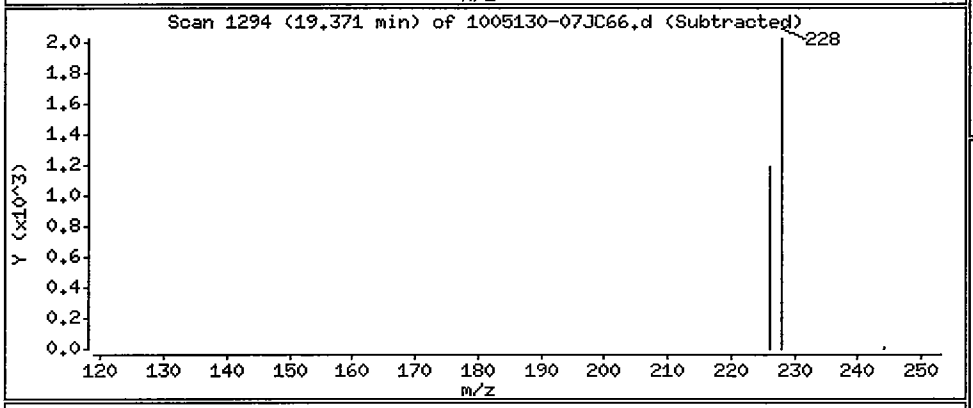
Volume Injected (uL): 2.0 Operator: 2743

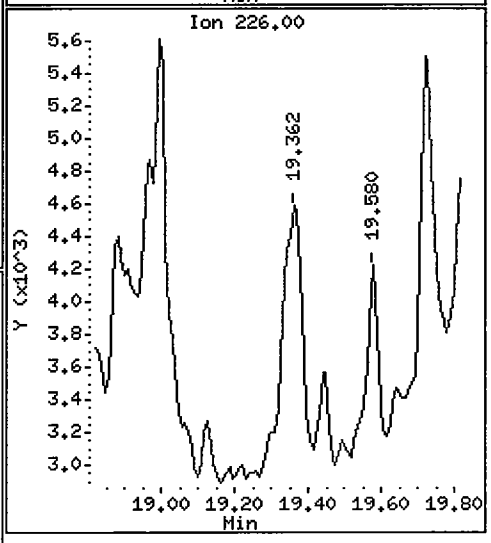
Column phase: Rtx-5MS Column diameter: 0.32

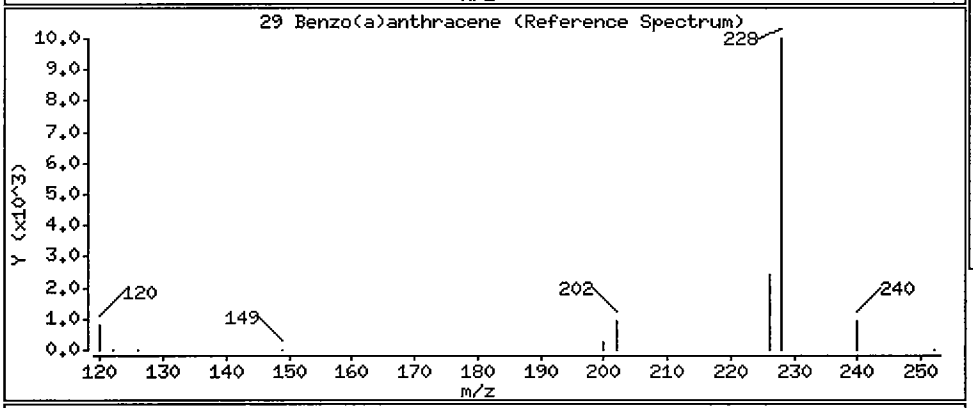
29 Benzo(a)anthracene Concentration: 1.6 ug/Kg

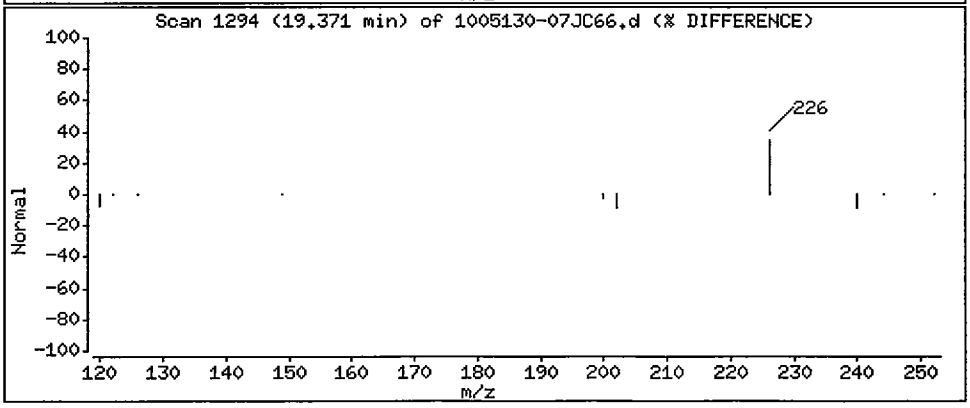












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

Client ID: SS50-0-1

Instrument: 5972hp66.i

Sample Info: 1005130-07:2743

Volume Injected (uL): 2.0

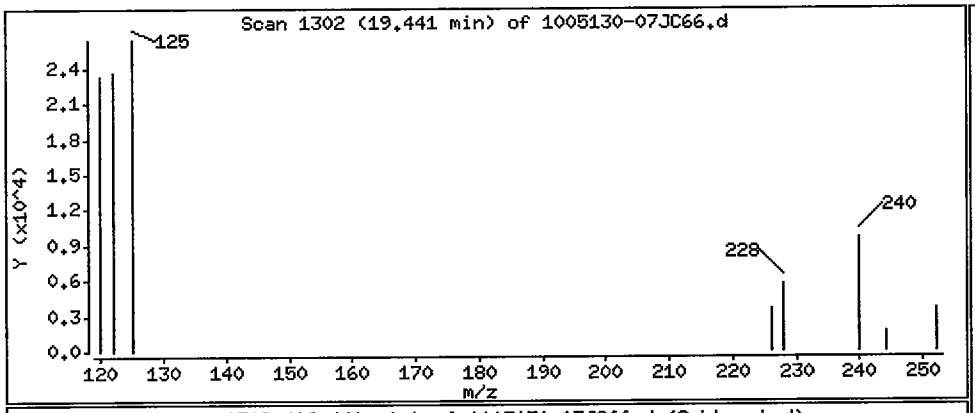
Operator: 2743

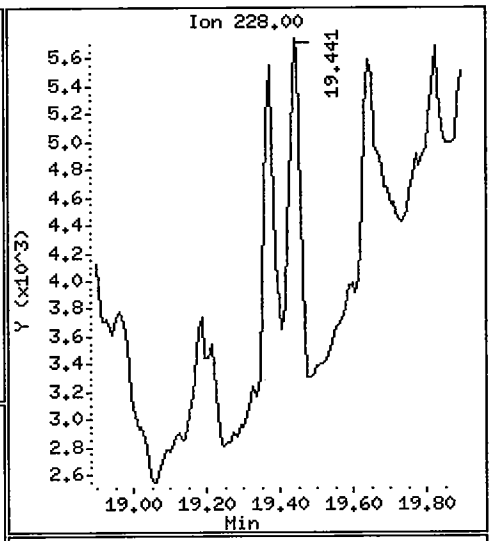
Column phase: Rtx-5MS

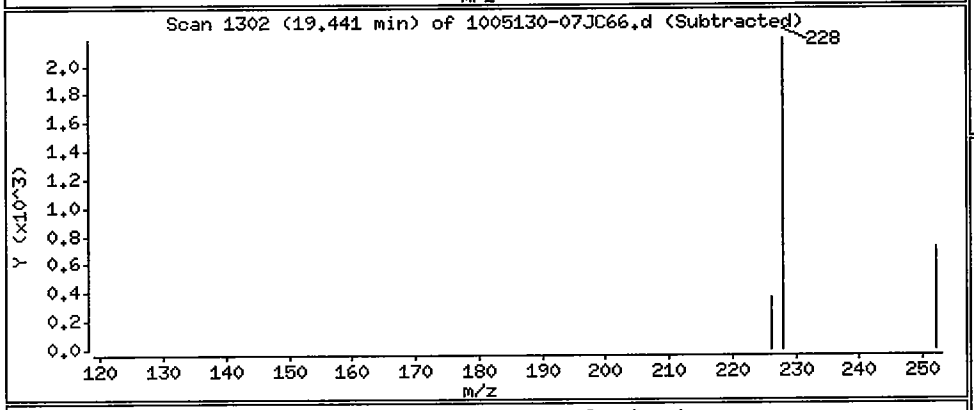
Column diameter: 0.32

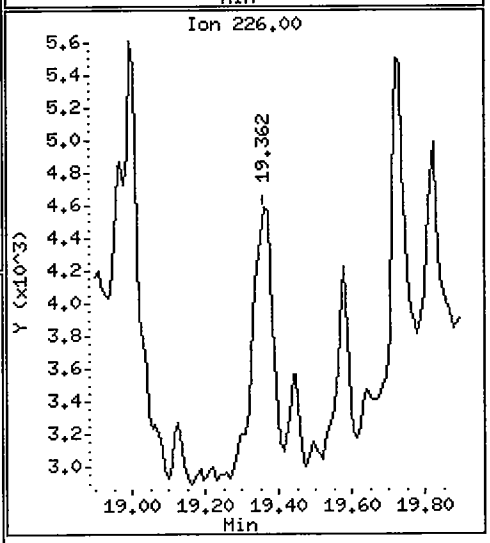
30 Chrysene

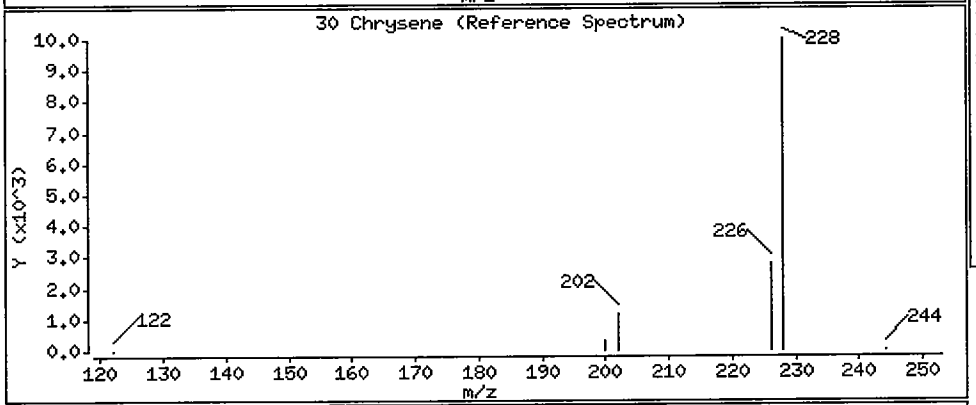
Concentration: 1.6 ug/Kg

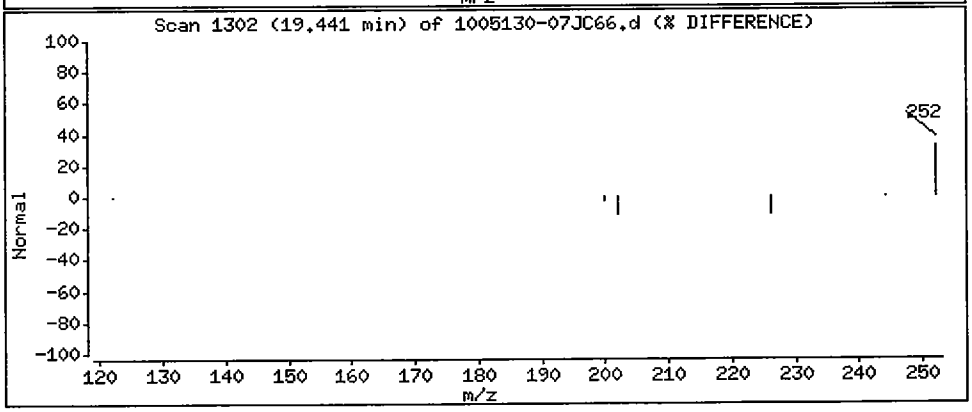












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

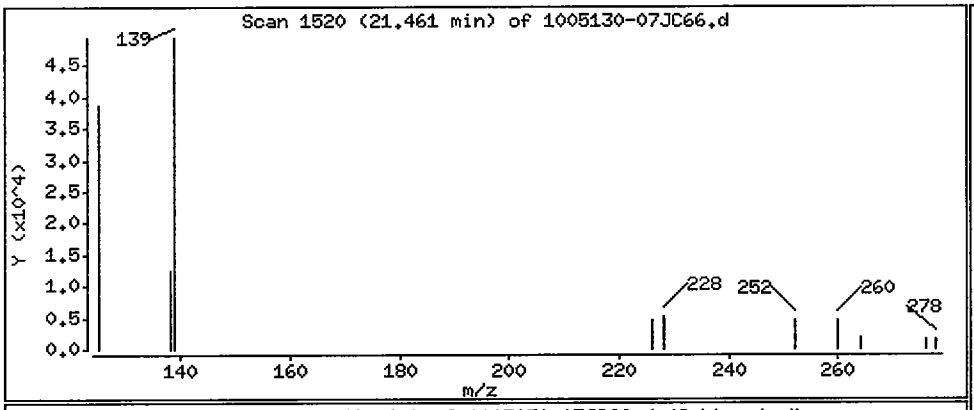
Client ID: SS50-0-1 Instrument: 5972hp66.i

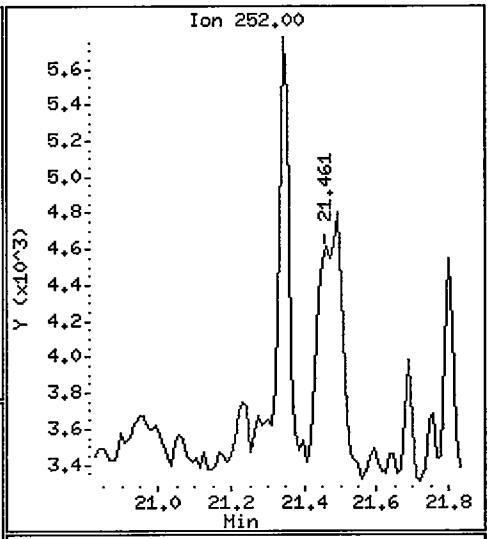
Sample Info: 1005130-07:2743

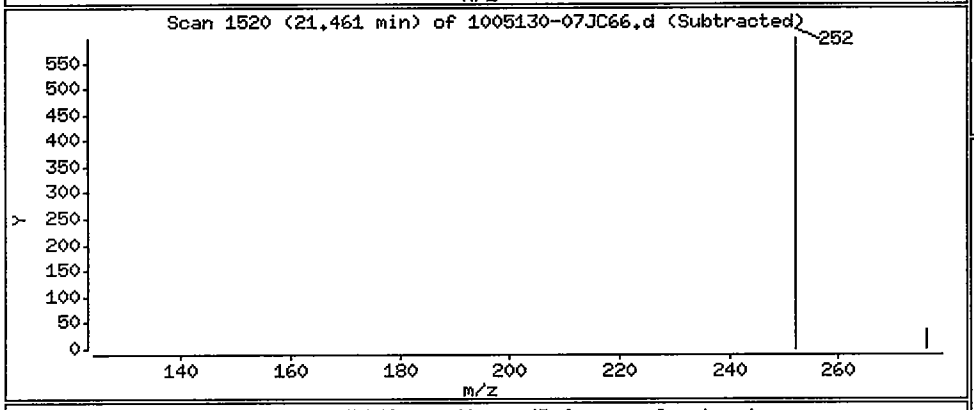
Volume Injected (uL): 2.0 Operator: 2743

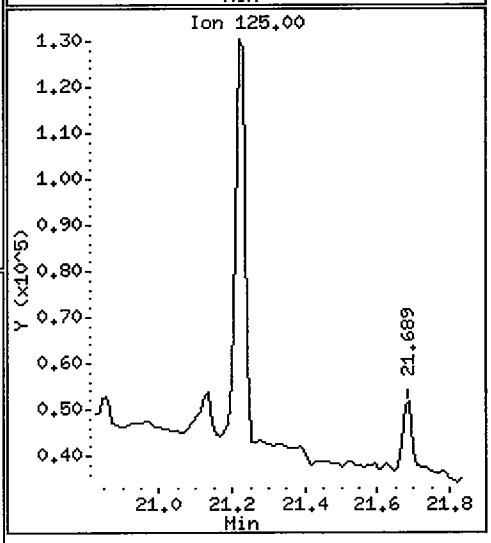
Column phase: Rtx-5MS Column diameter: 0.32

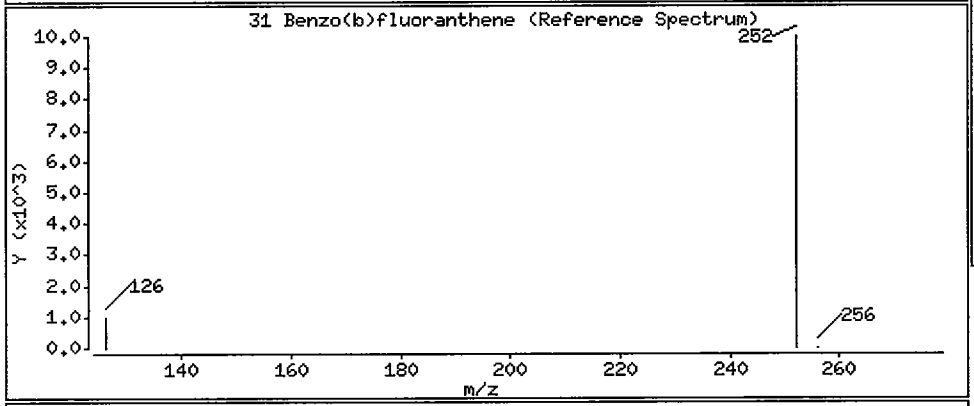
31 Benzo(b)fluoranthene Concentration: 1.4 ug/Kg

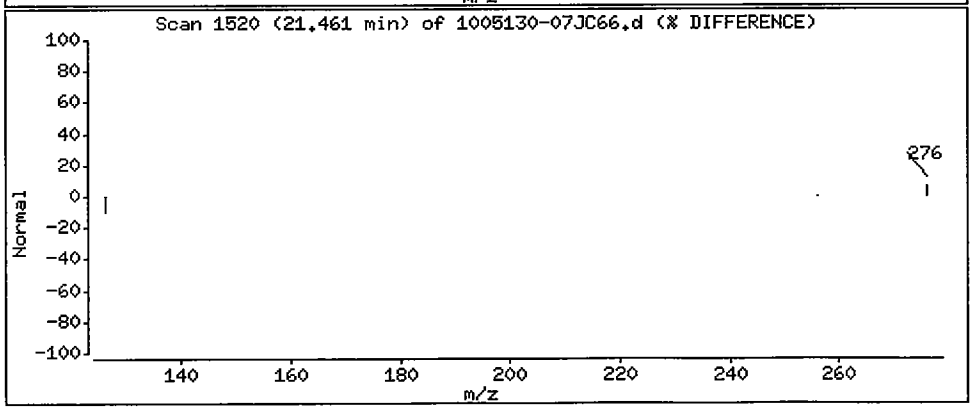












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

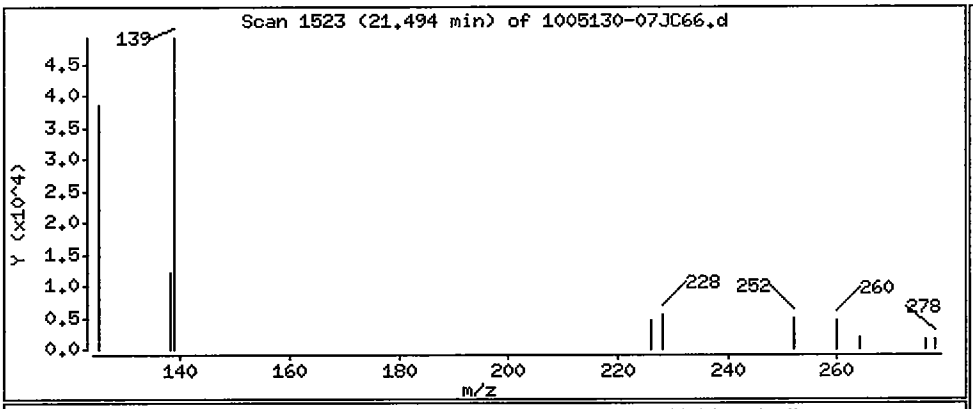
Client ID: SS50-0-1 Instrument: 5972hp66.i

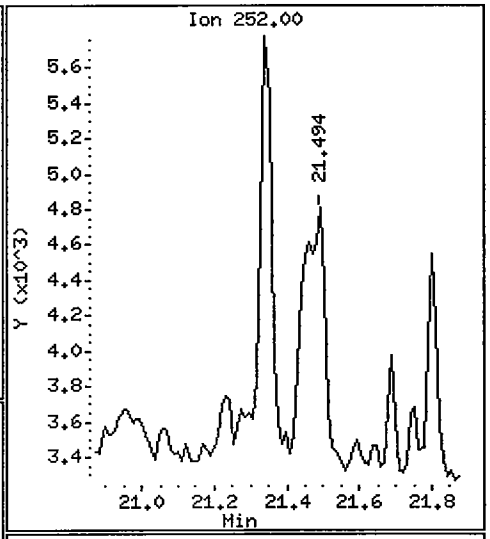
Sample Info: 1005130-07:2743

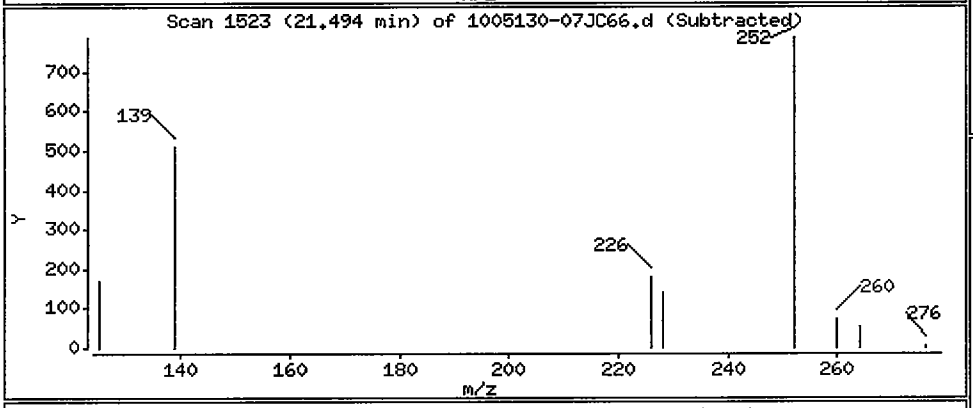
Volume Injected (uL): 2.0 Operator: 2743

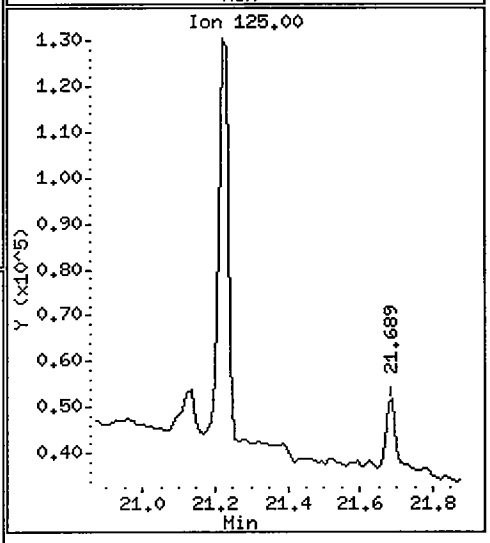
Column phase: Rtx-5MS Column diameter: 0.32

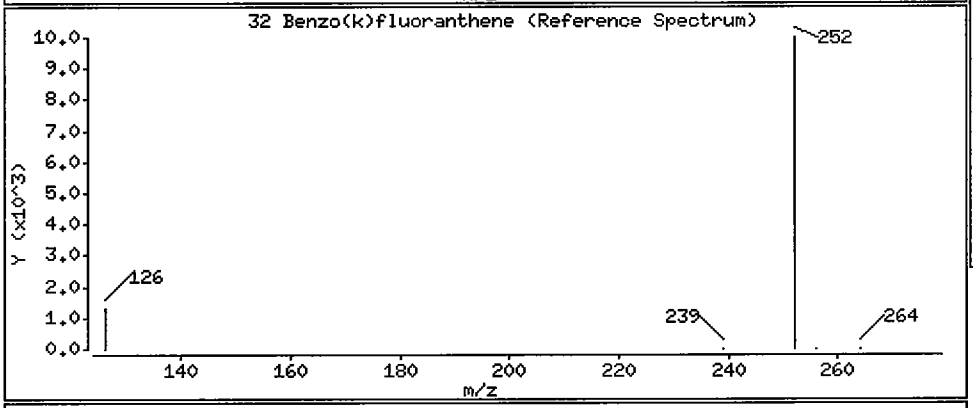
32 Benzo(k)fluoranthene Concentration: 1.3 ug/Kg

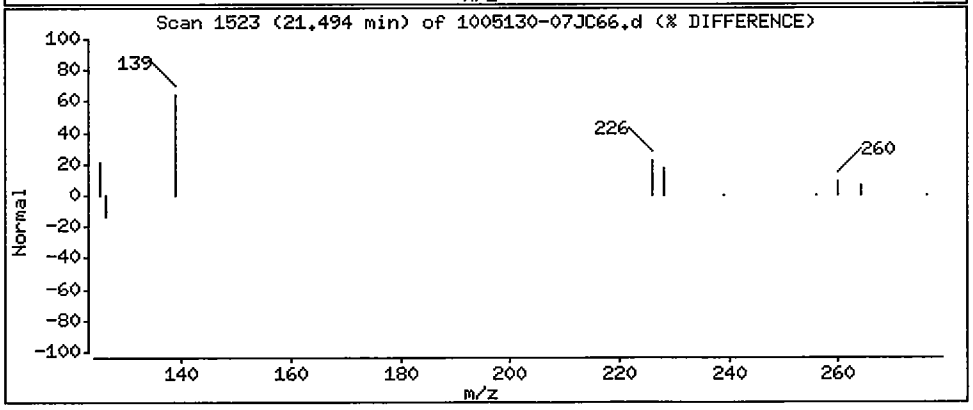












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

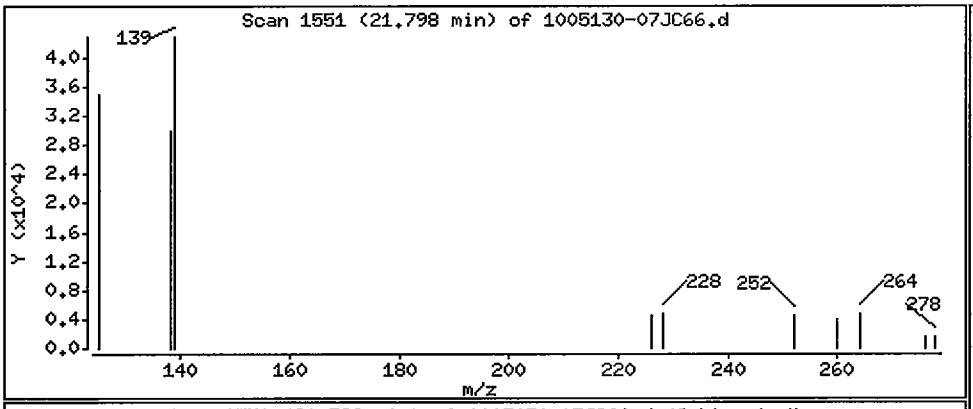
Client ID: SS50-0-1 Instrument: 5972hp66.i

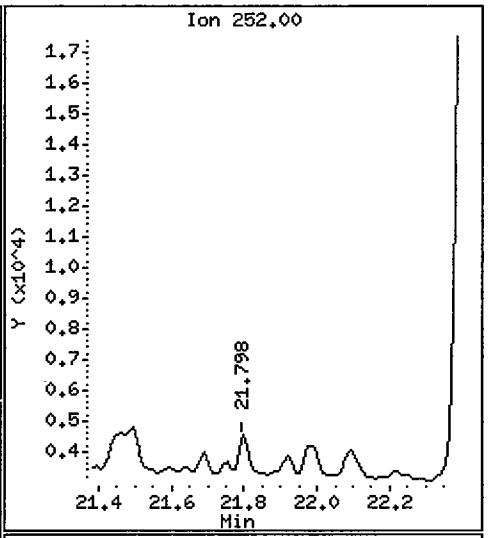
Sample Info: 1005130-07:2743

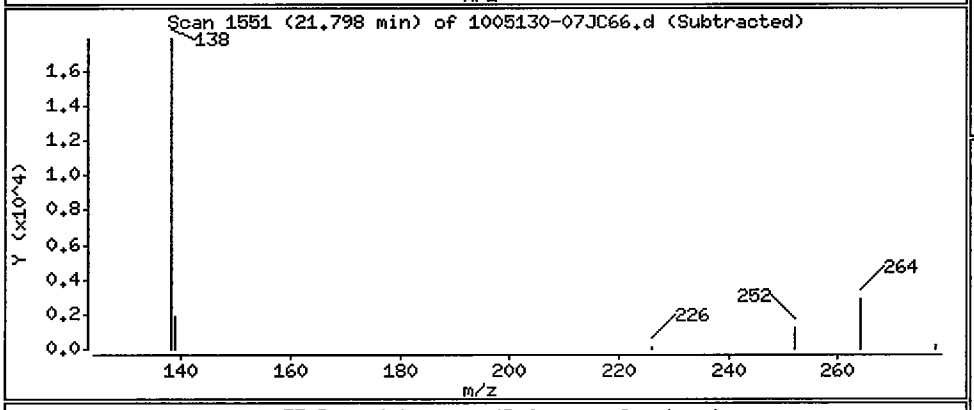
Volume Injected (uL): 2.0 Operator: 2743

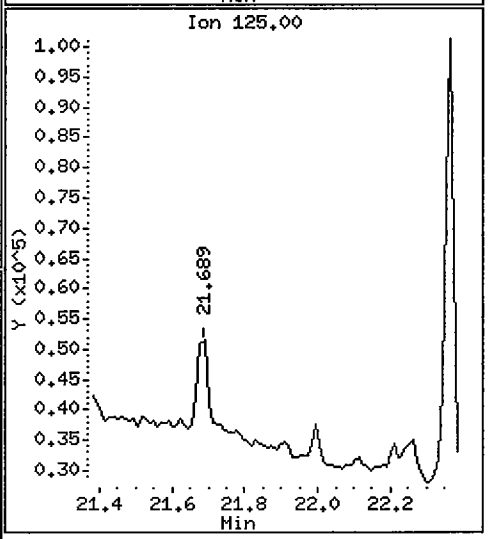
Column phase: Rtx-5MS Column diameter: 0.32

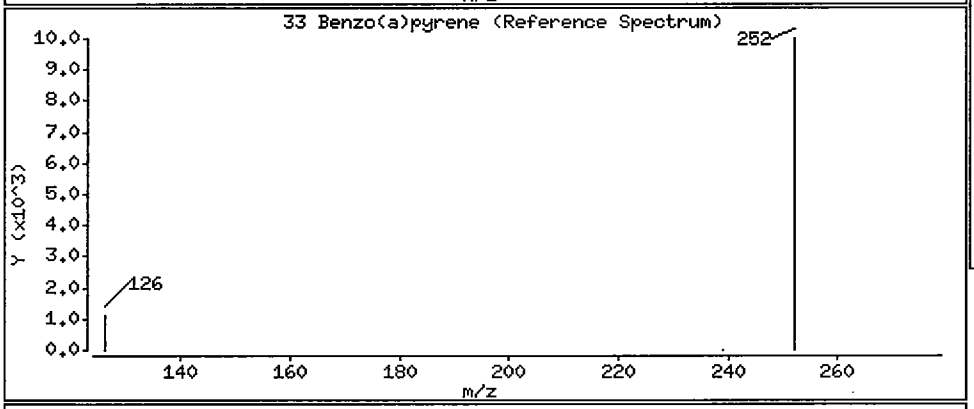
33 Benzo(a)pyrene Concentration: 1.1 ug/Kg

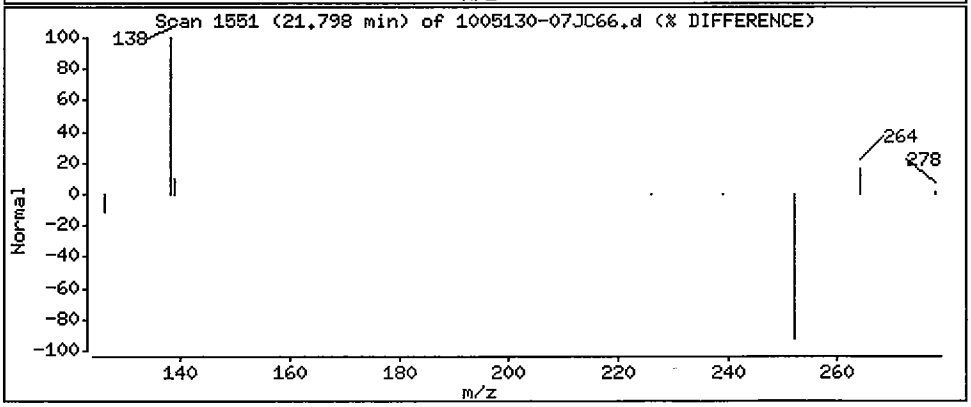












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

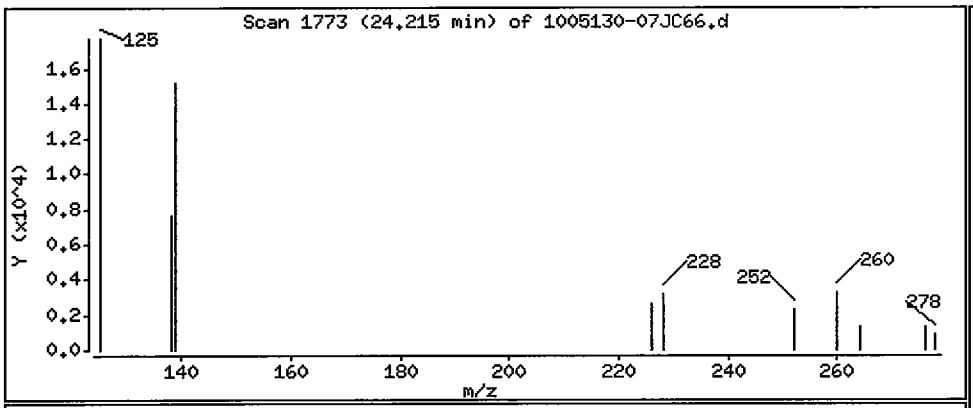
Client ID: SS50-0-1 Instrument: 5972hp66.i

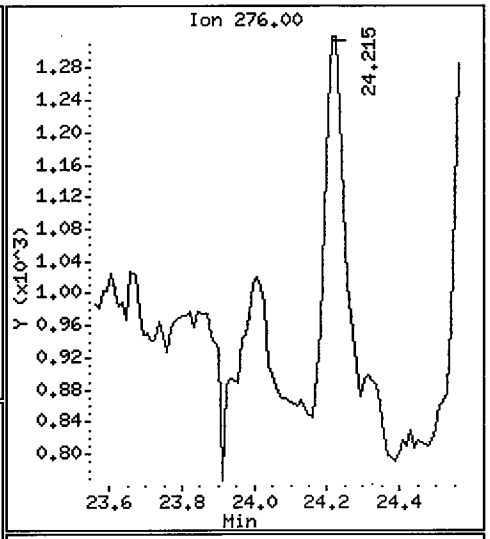
Sample Info: 1005130-07:2743

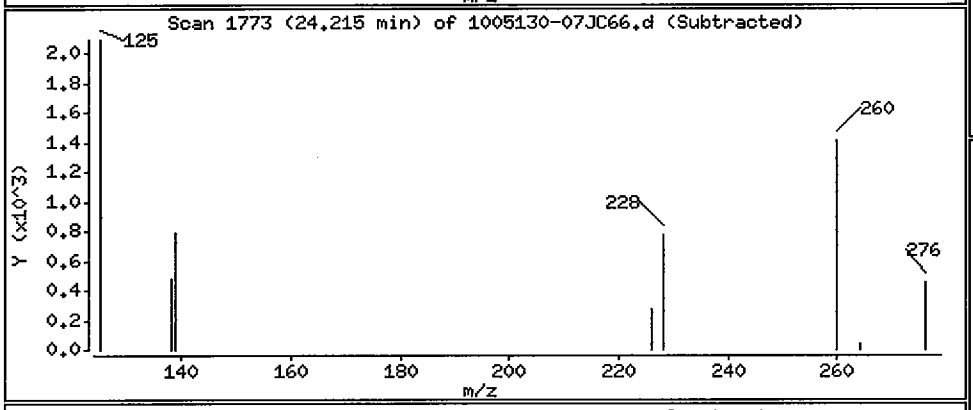
Volume Injected (uL): 2.0 Operator: 2743

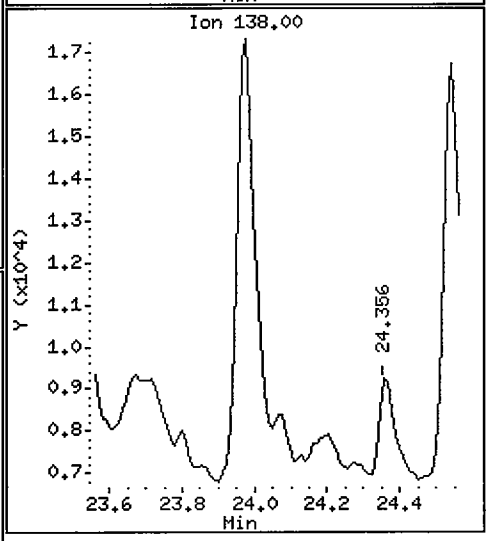
Column phase: Rtx-5MS Column diameter: 0.32

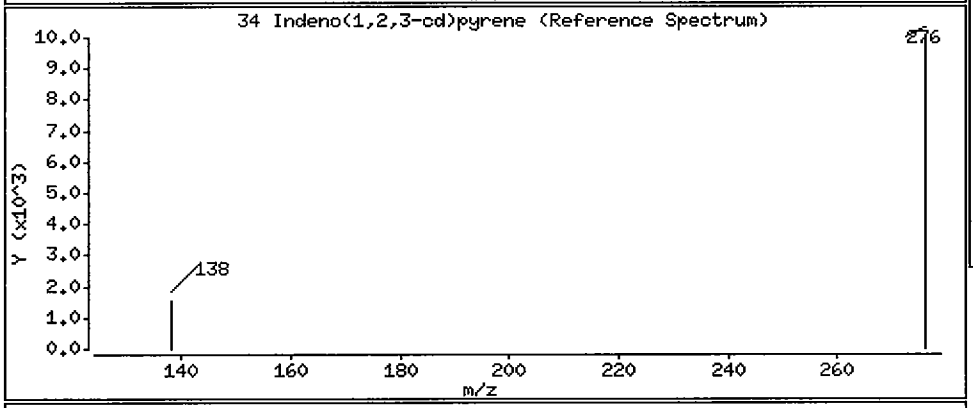
34 Indeno(1,2,3-cd)pyrene Concentration: 0.91 ug/Kg

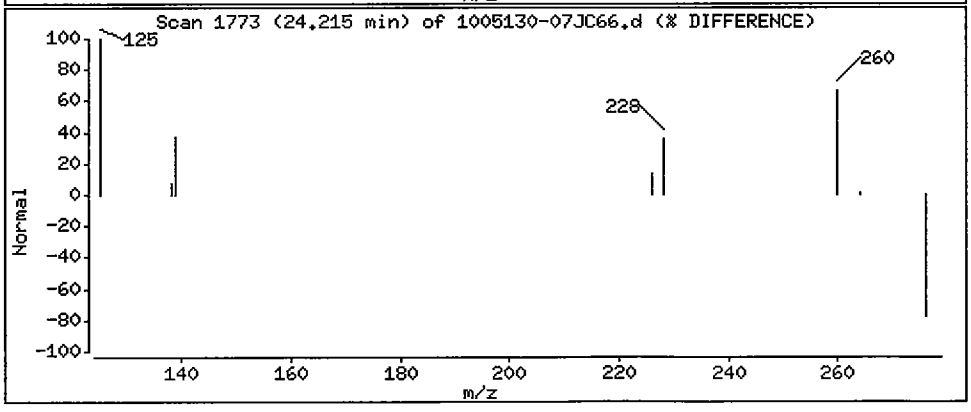












Data File: /chem/5972hp66.i/DS100531C66.b/1005130-07JC66.d

Date : 01-JUN-2010 06:05

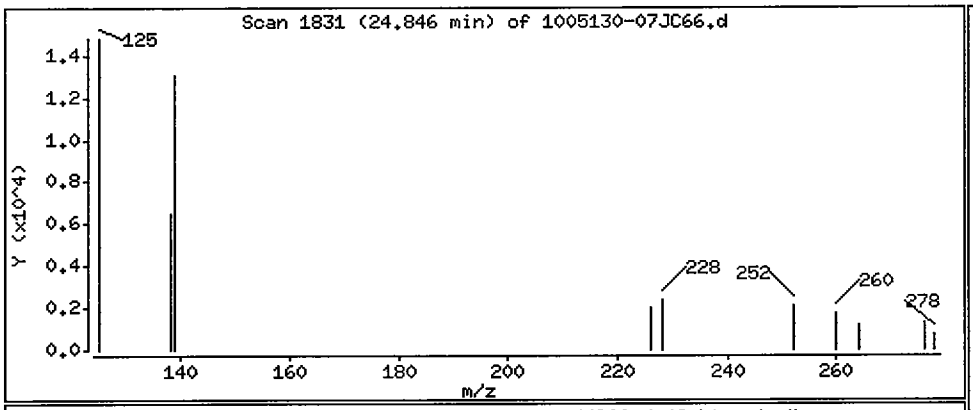
Client ID: SS50-0-1 Instrument: 5972hp66.i

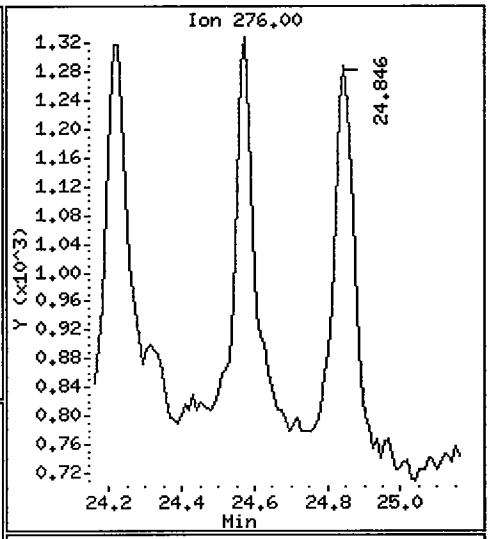
Sample Info: 1005130-07:2743

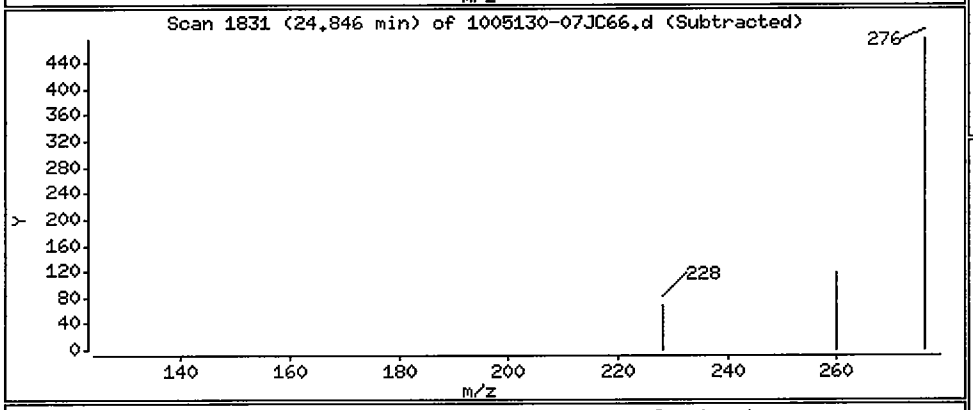
Volume Injected (uL): 2.0 Operator: 2743

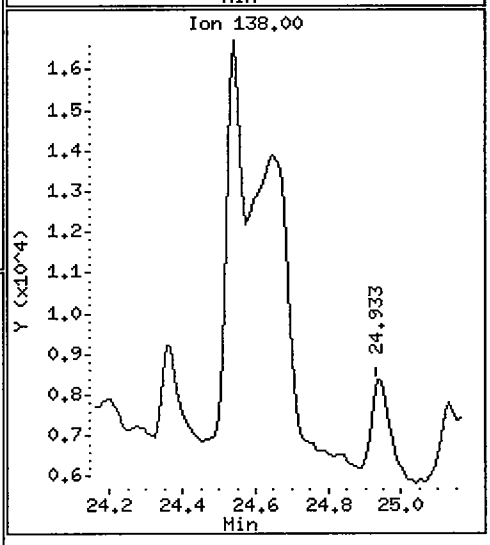
Column phase: Rtx-5MS Column diameter: 0.32

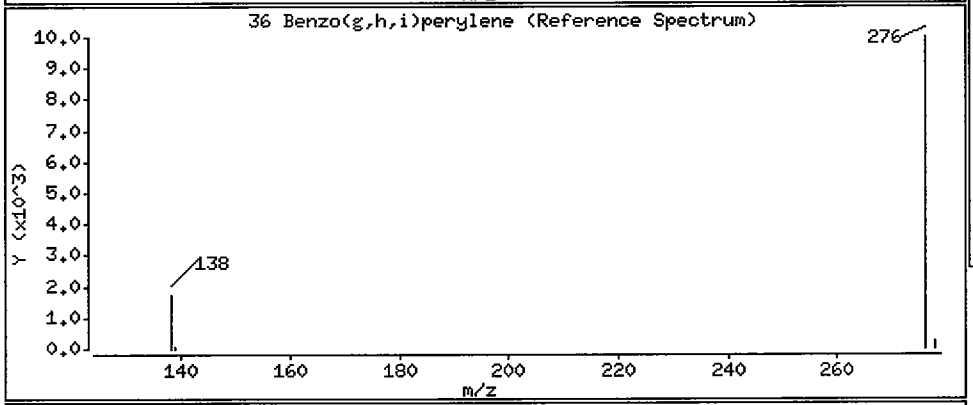
36 Benzo(g,h,i)perylene Concentration: 0.90 ug/Kg

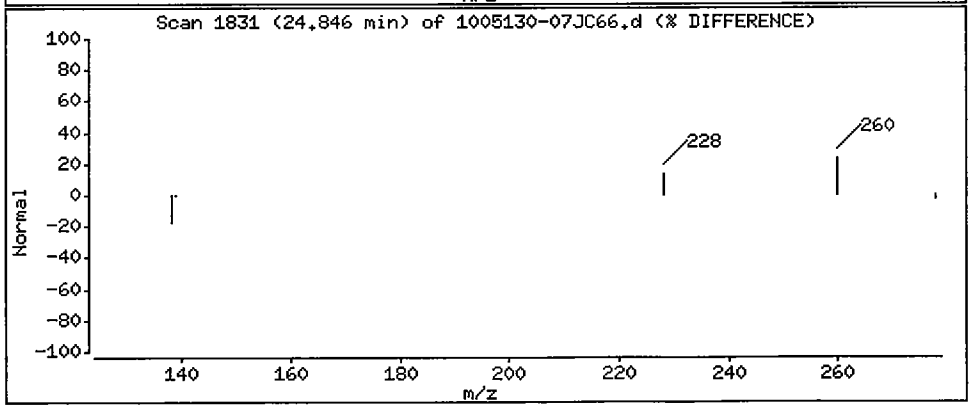












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1RE

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 1005130-07RE1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 1005130-07RJA66
Analyst: MEW

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/24/10
Dilution Factor: 1.0

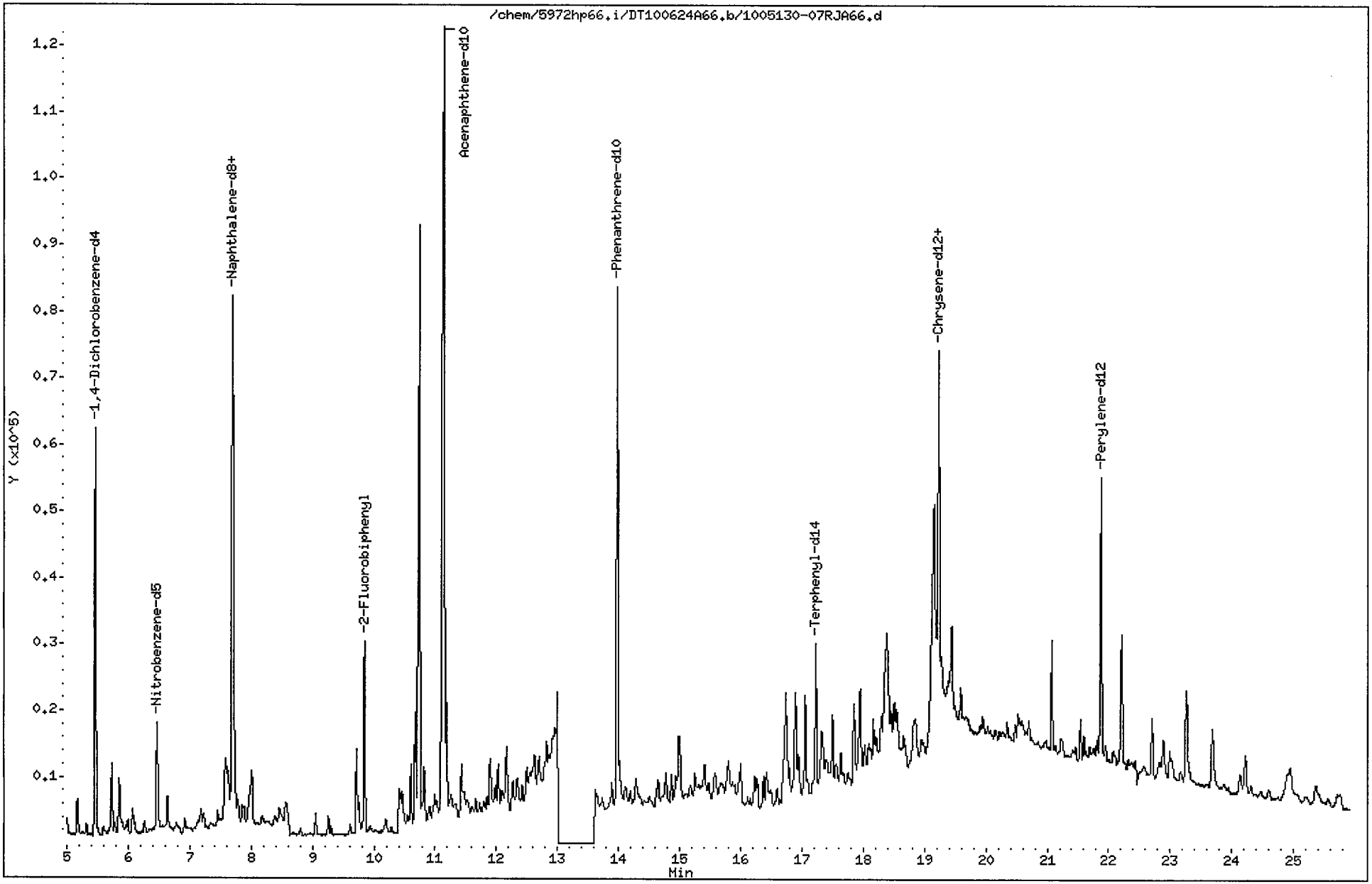
CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	5.8	JB
91-57-6	2-Methylnaphthalene	1.0	13	1.7	J
208-96-8	Acenaphthylene	0.81	13	ND	U
83-32-9	Acenaphthene	0.91	13	0.93	J
86-73-7	Fluorene	0.68	13	2.1	J
85-01-8	Phenanthrene	2.0	13	4.4	J
120-12-7	Anthracene	0.66	13	0.69	J
206-44-0	Fluoranthene	2.0	13	2.4	J
129-00-0	Pyrene	0.86	13	2.8	J
56-55-3	Benzo(a)anthracene	0.86	13	1.4	J
218-01-9	Chrysene	0.96	13	3.2	J
205-99-2	Benzo(b)fluoranthene	0.86	13	2.1	J
207-08-9	Benzo(k)fluoranthene	0.66	13	1.6	J
50-32-8	Benzo(a)pyrene	0.58	13	1.5	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	2.0	J
53-70-3	Dibenzo(a,h)anthracene	0.51	13	ND	U
191-24-2	Benzo(g,h,i)perylene	0.58	13	1.3	J

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Date : 24-JUN-2010 18:06
Client ID: SS50-0-1RE
Sample Info: 1005130-07RE1:MEW
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: MEW
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Report Date: 25-Jun-2010 11:10

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Lab Smp Id: 1005130-07RE1 Client Smp ID: SS50-0-1RE
Inj Date : 24-JUN-2010 18:06
Operator : MEW Inst ID: 5972hp66.i
Smp Info : 1005130-07RE1:MEW
Misc Info : SS50-0-1RE
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100624A66.b/SIM_8270Cv3DOD.m
Meth Date : 25-Jun-2010 10:58 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	34.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.464	5.451	(1.000)	35588	2.00000	
* 2 Naphthalene-d8	136	7.695	7.694	(1.000)	109166	2.00000	
* 3 Acenaphthene-d10	164	11.104	11.104	(1.000)	59292	2.00000	
* 4 Phenanthrene-d10	188	13.980	13.968	(1.000)	114007	2.00000	
* 5 Chrysene-d12	240	19.231	19.204	(1.000)	74460	2.00000	(M)
* 6 Perylene-d12	264	21.872	21.824	(1.000)	58583	2.00000	
$ 9 Nitrobenzene-d5	82	6.466	6.461	(0.840)	19529	0.72999	18
$ 10 2-Fluorobiphenyl	172	9.847	9.846	(0.887)	31988	0.68139	17
$ 12 Terphenyl-d14	244	17.231	17.217	(0.896)	28111	1.21395	31
13 Naphthalene	128	7.729	7.718	(1.004)	14565	0.22853	5.8(a)
15 2-Methylnaphthalene	141	9.053	9.048	(1.177)	2290	0.06799	1.7(aM)
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	11.174	11.162	(1.006)	1191	0.03692	0.93(a)

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Report Date: 25-Jun-2010 11:10

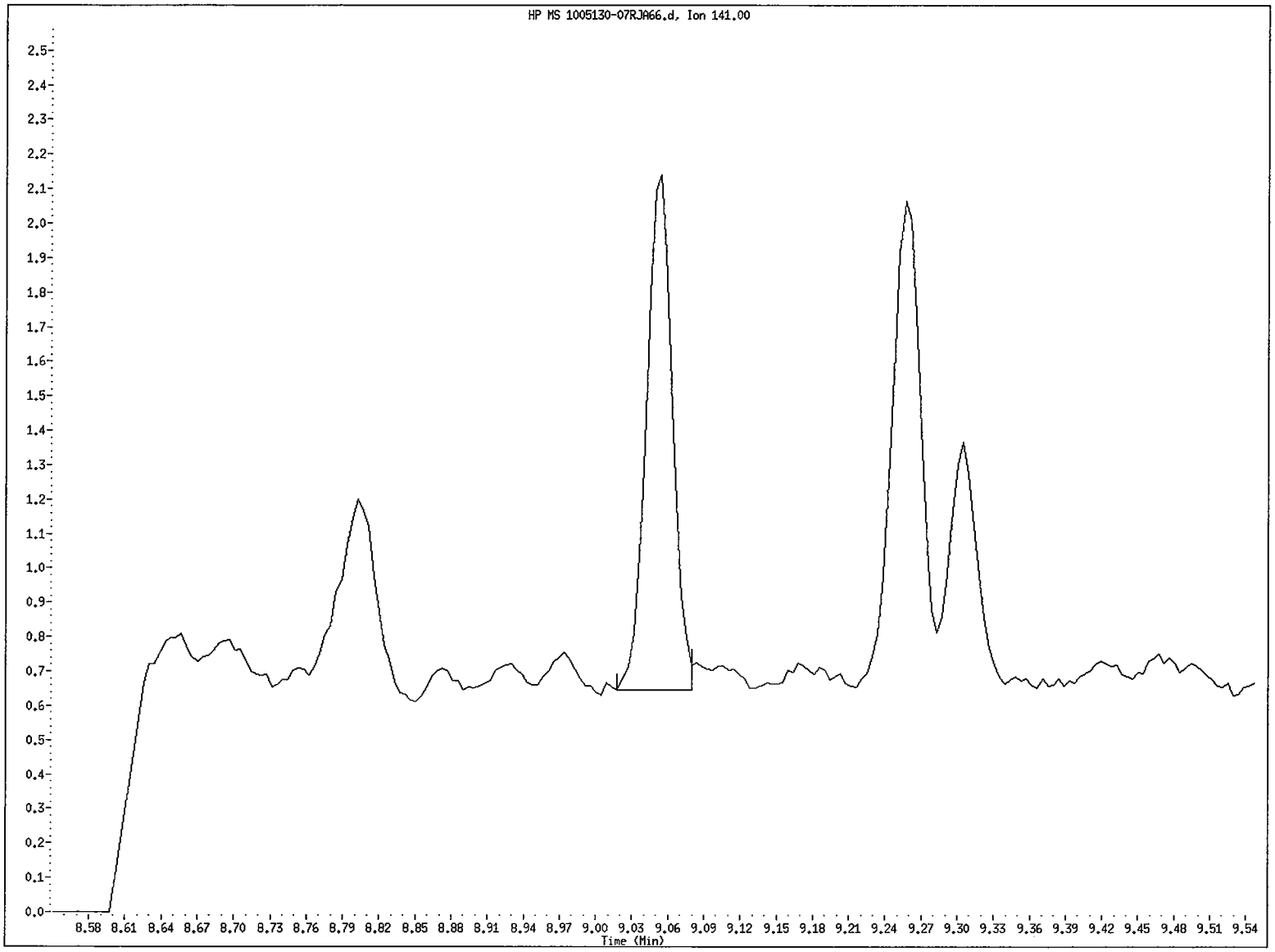
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	12.162	12.154	(1.095)	3487	0.08439	2.1(a)
25 Phenanthrene	178	14.015	14.014	(1.002)	10975	0.17607	4.4(a)
26 Anthracene	178	14.107	14.095	(1.009)	1576	0.02730	0.69(aM)
27 Fluoranthene	202	16.375	16.366	(1.171)	5696	0.09595	2.4(a)
28 Pyrene	202	16.799	16.789	(0.874)	5083	0.11233	2.8(aM)
29 Benzo(a)anthracene	228	19.200	19.173	(0.998)	2002	0.05690	1.4(aM)
30 Chrysene	228	19.279	19.253	(1.003)	4662	0.12829	3.2(aMH)
31 Benzo(b)fluoranthene	252	21.219	21.176	(0.970)	2730	0.08445	2.1(aM)
32 Benzo(k)fluoranthene	252	21.255	21.220	(0.972)	2272	0.06473	1.6(aM)
33 Benzo(a)pyrene	252	21.691	21.718	(0.992)	1772	0.05814	1.5(a)
34 Indeno(1,2,3-cd)pyrene	276	23.875	23.804	(1.092)	2148	0.08064	2.0(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.462	24.365	(1.118)	1532	0.05231	1.3(aM)

66/kg/w

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

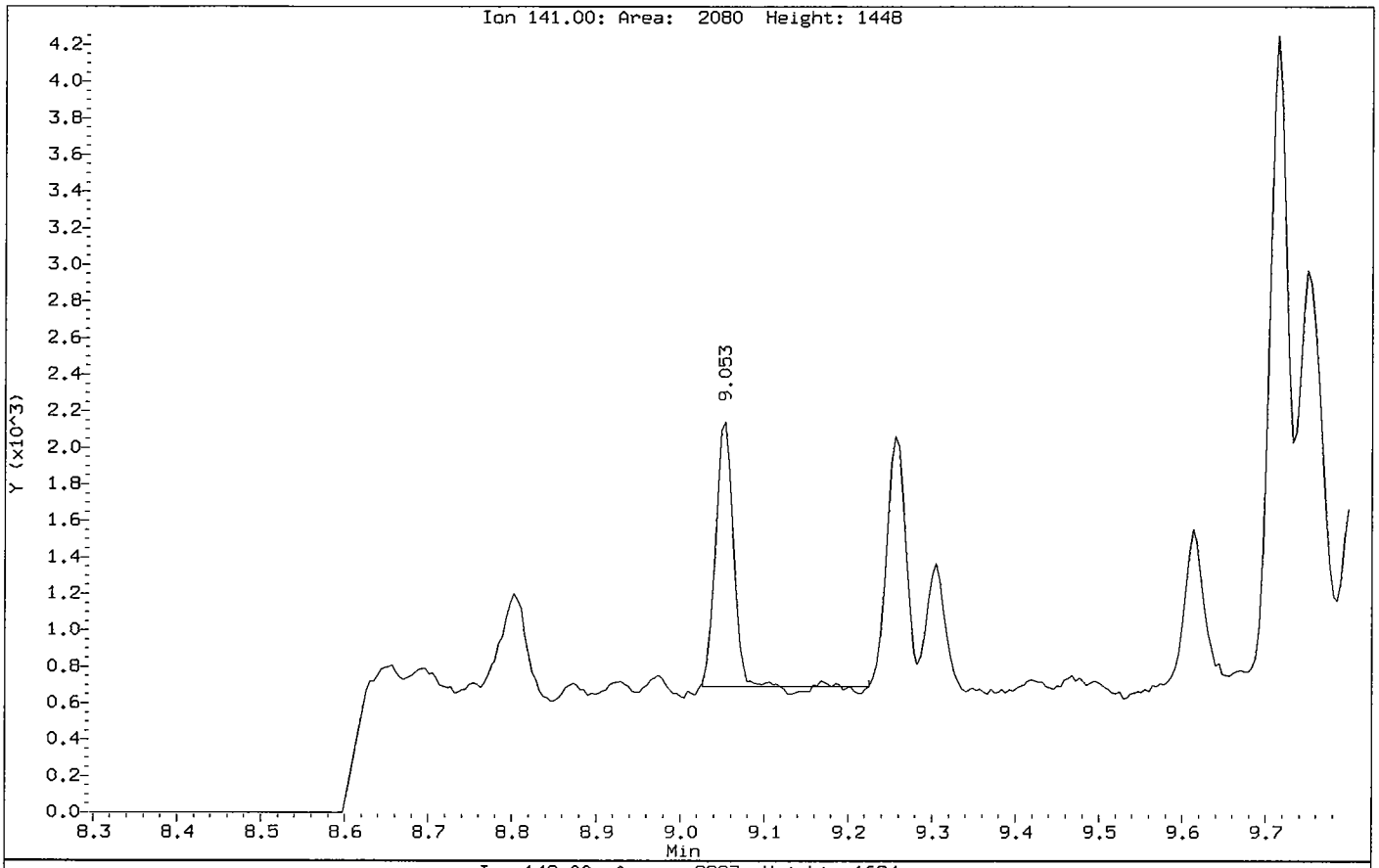
2-Methylnaphthalene CAS Number 91-57-6 Area = 2290 Manually integrated

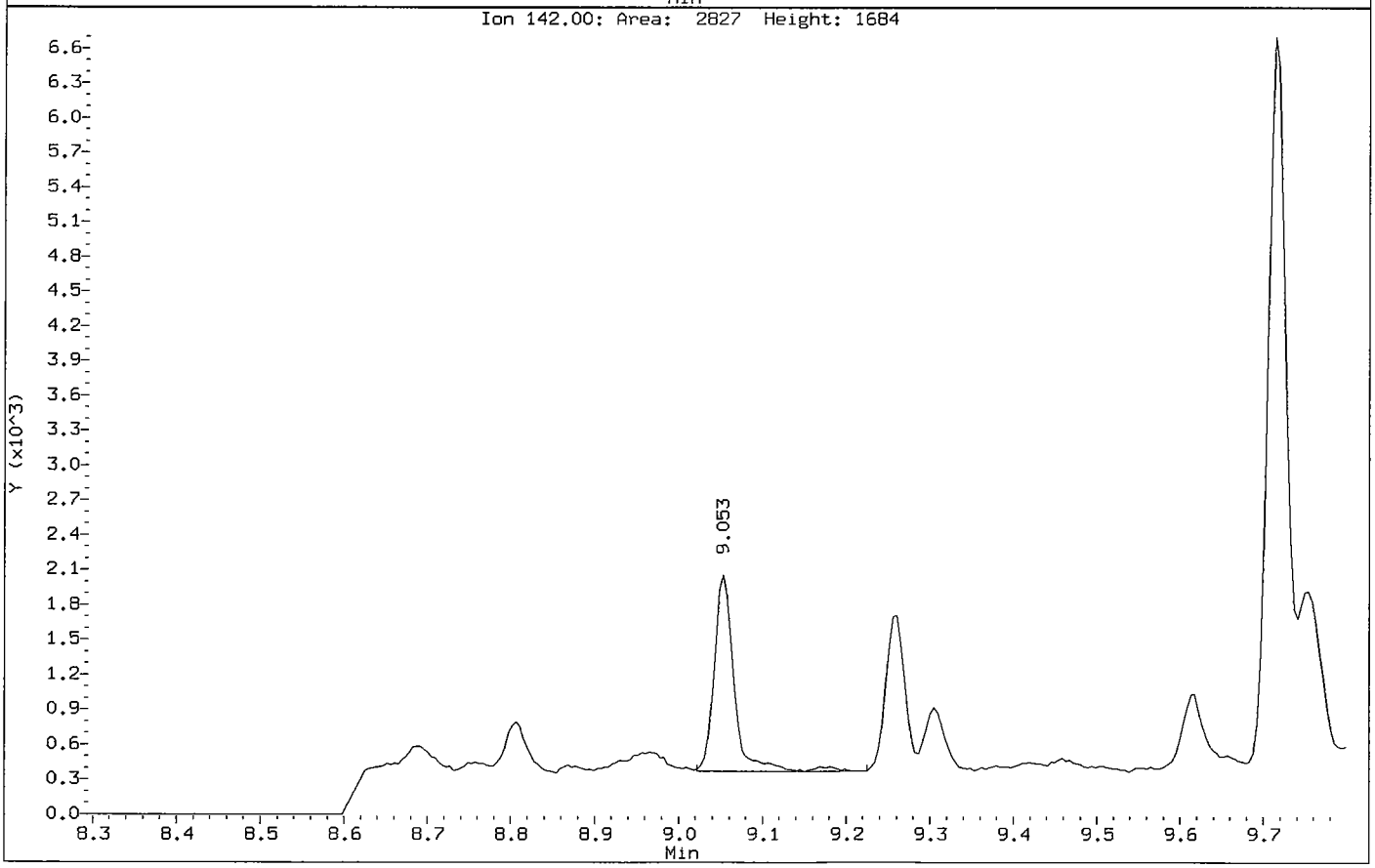


File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 9.05
Operator ID: MEW

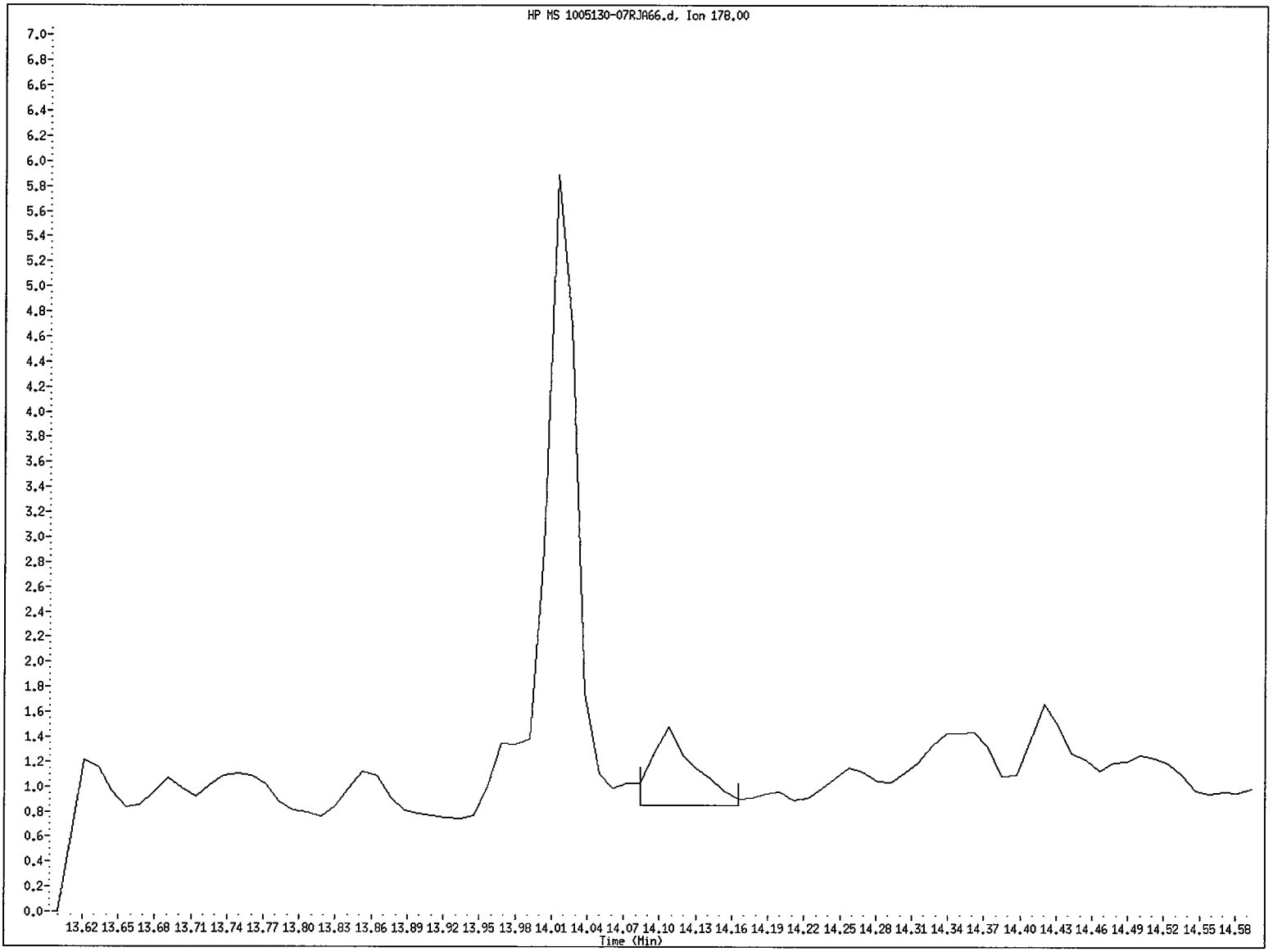
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Injection Date: 24-JUN-2010 18:06
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1RE

Compound: 2-Methylnaphthalene
CAS Number: 91-57-6





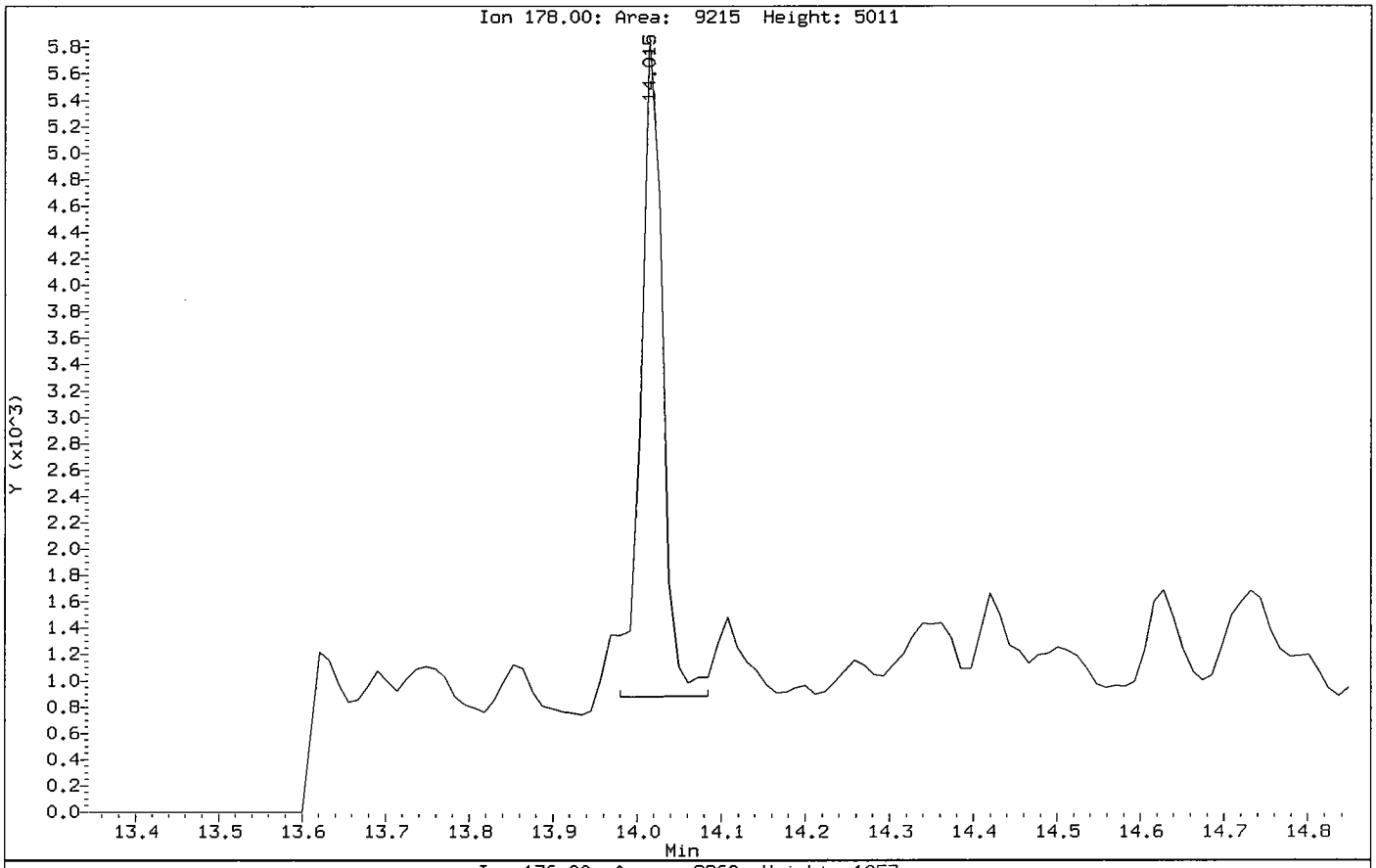
Anthracene CAS Number 120-12-7 Area = 1576 Manually integrated

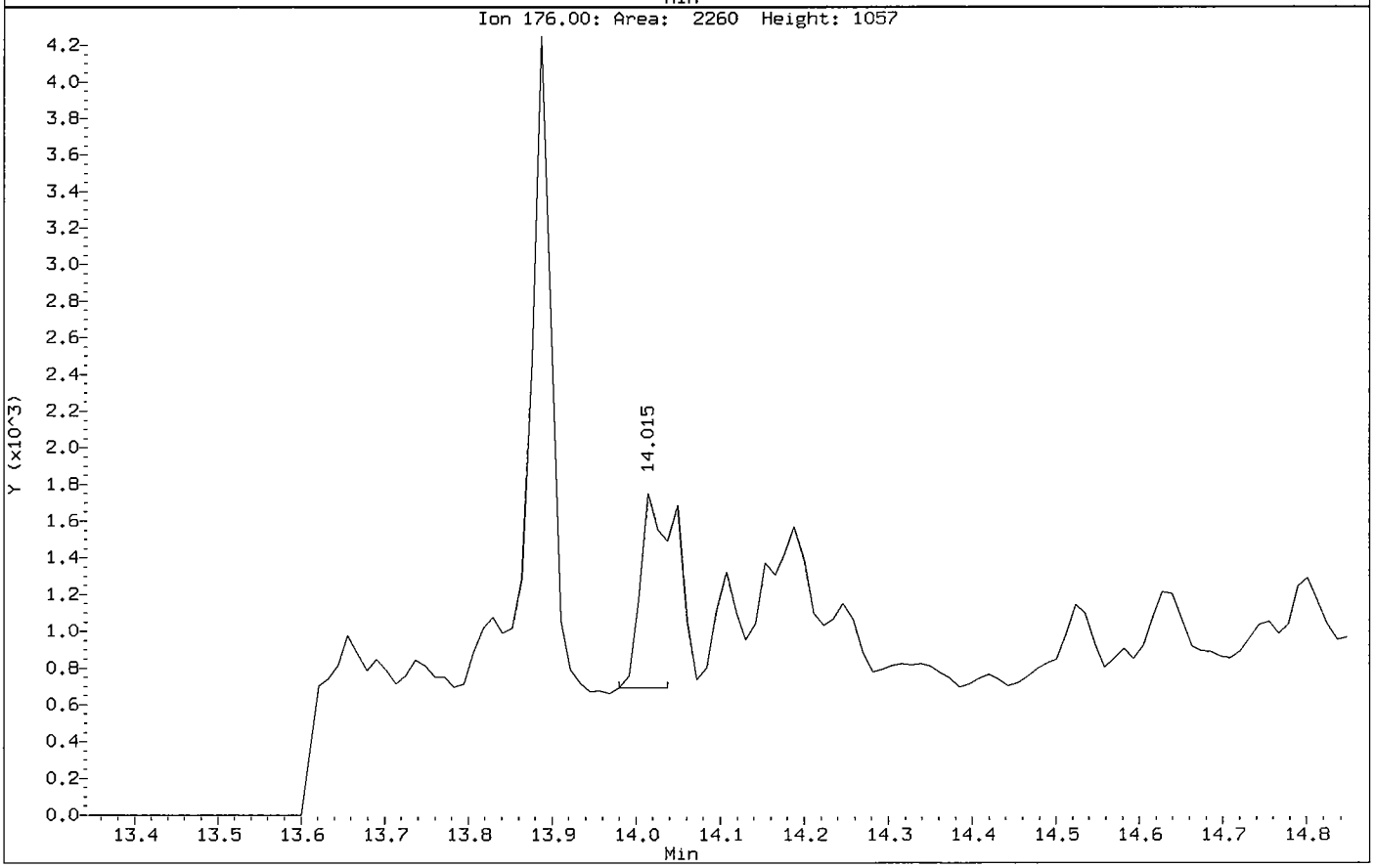


File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 14.11
Operator ID: MEW

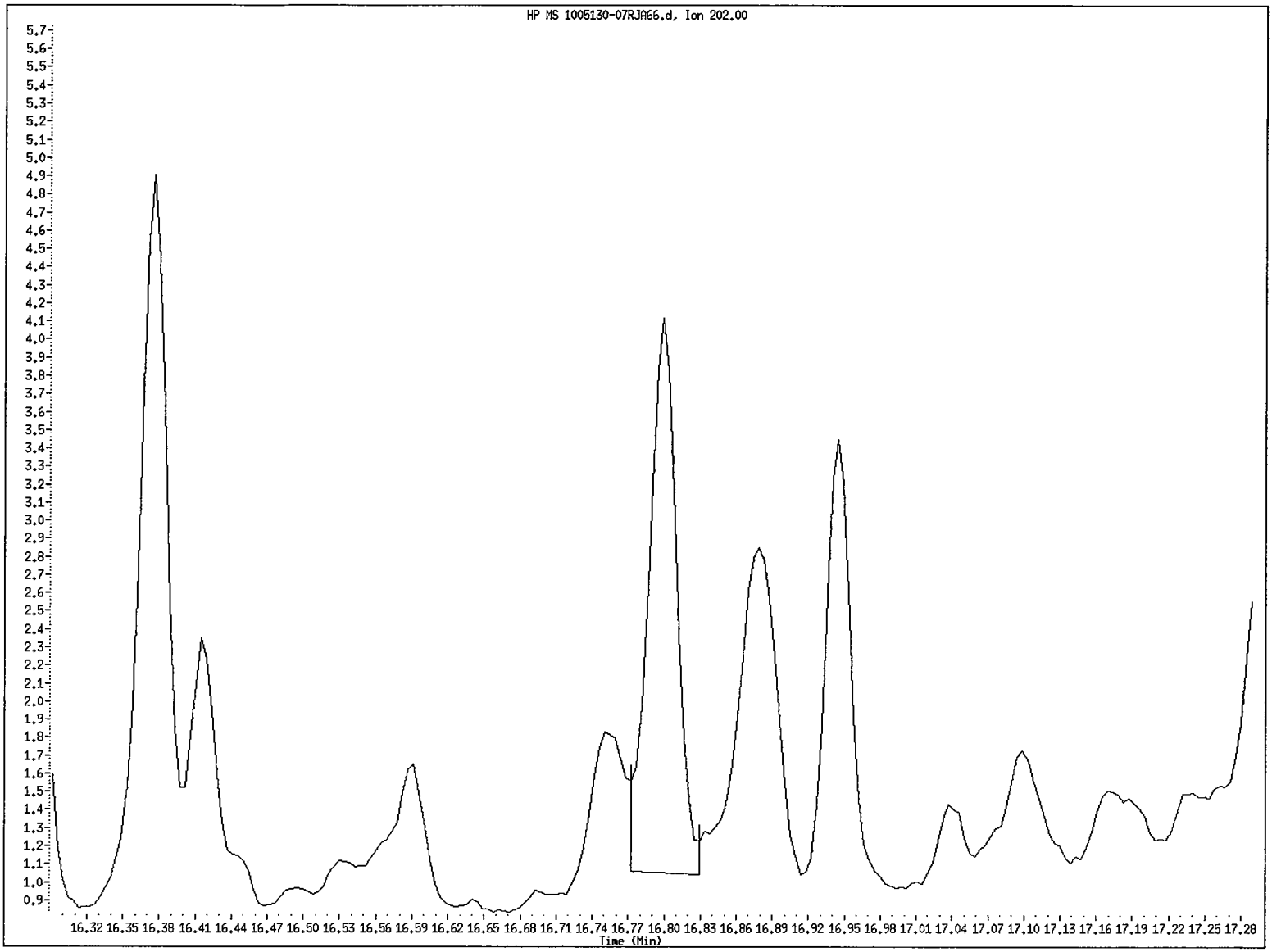
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Injection Date: 24-JUN-2010 18:06
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1RE

Compound: Anthracene
CAS Number: 120-12-7





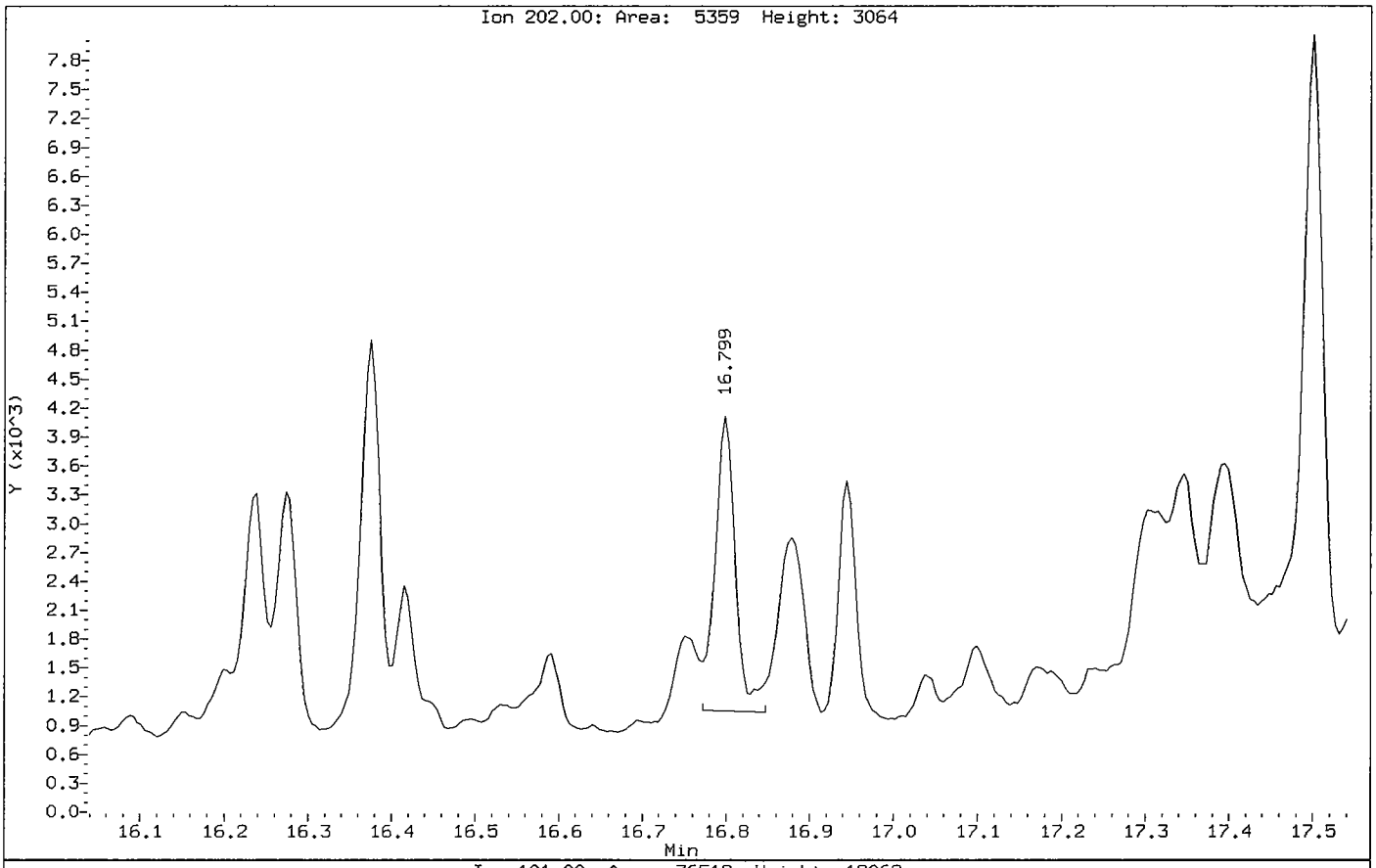
Pyrene CAS Number 129-00-0 Area = 5083 Manually integrated

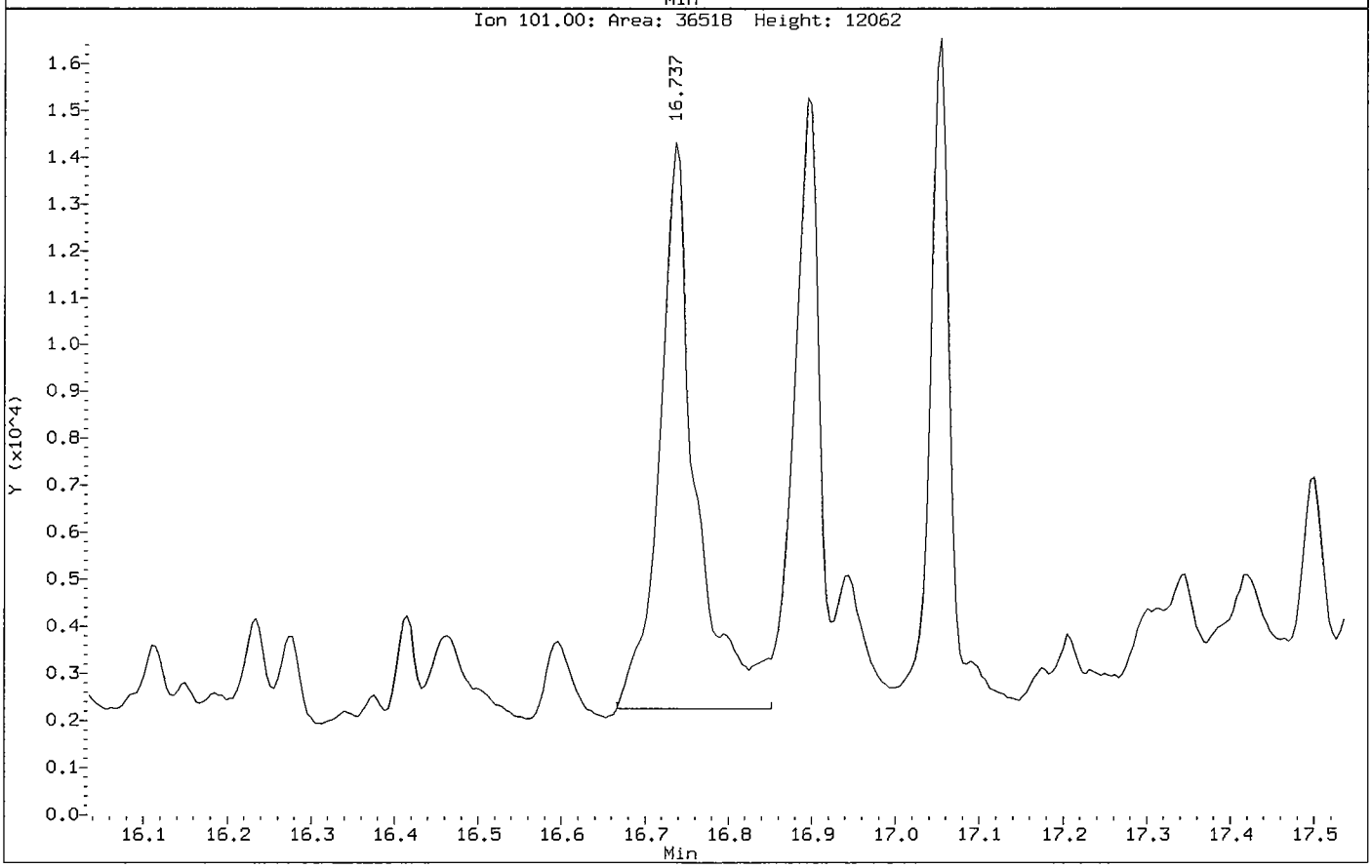


File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 16.80
Operator ID: MEW

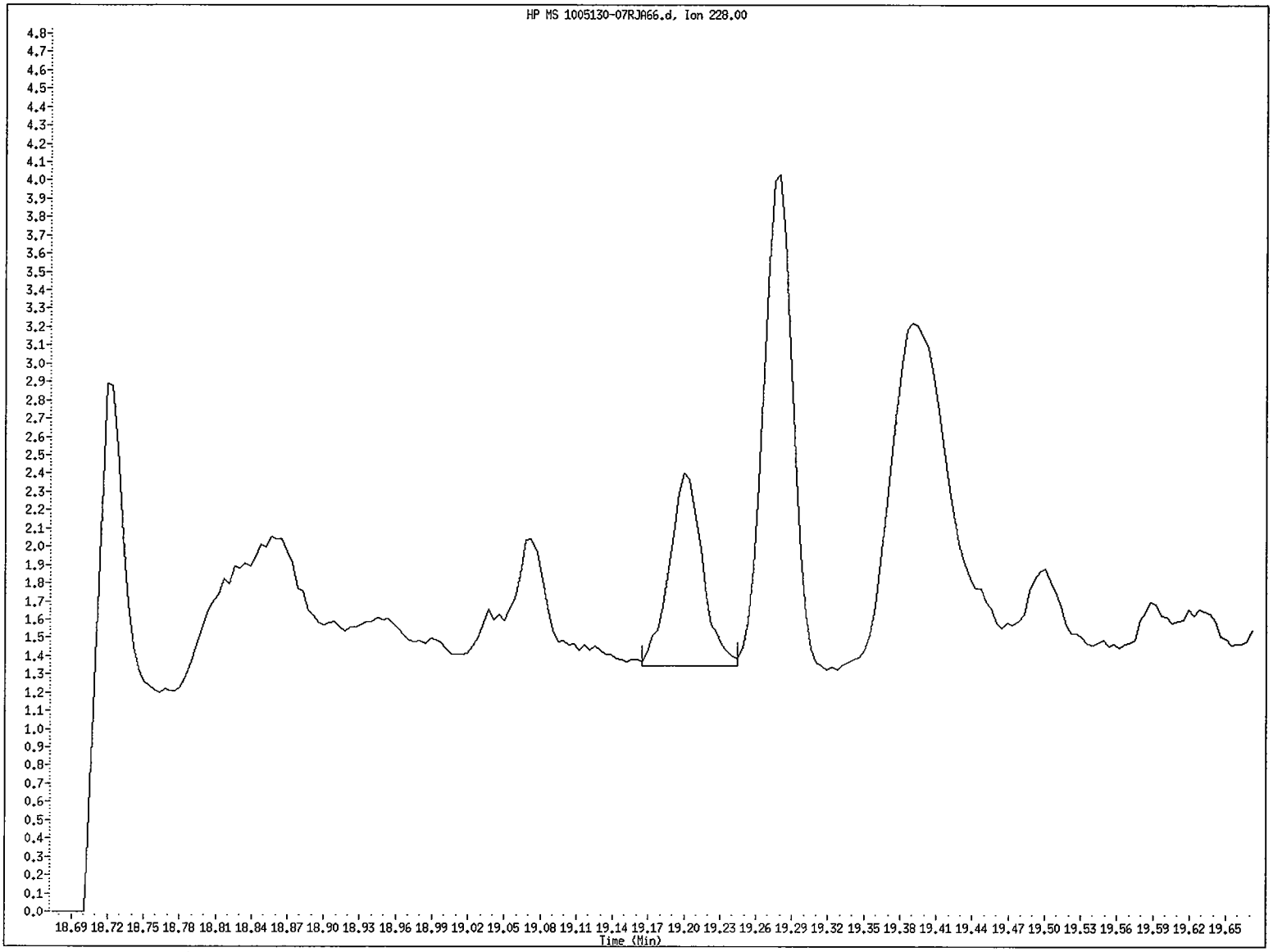
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Injection Date: 24-JUN-2010 18:06
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1RE

Compound: Pyrene
CAS Number: 129-00-0





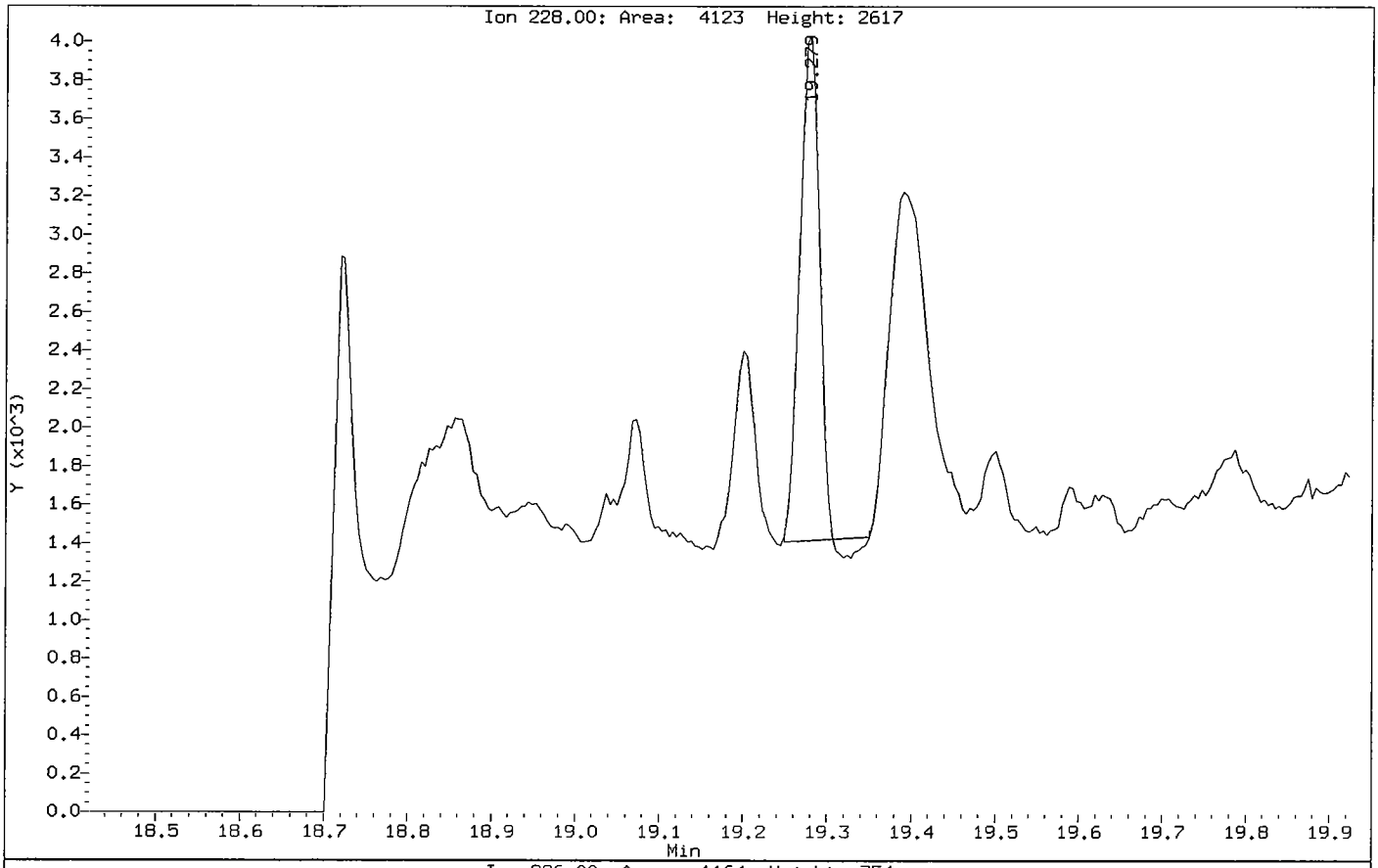
Benzo(a)anthracene CAS Number 56-55-3 Area = 2002 Manually integrated

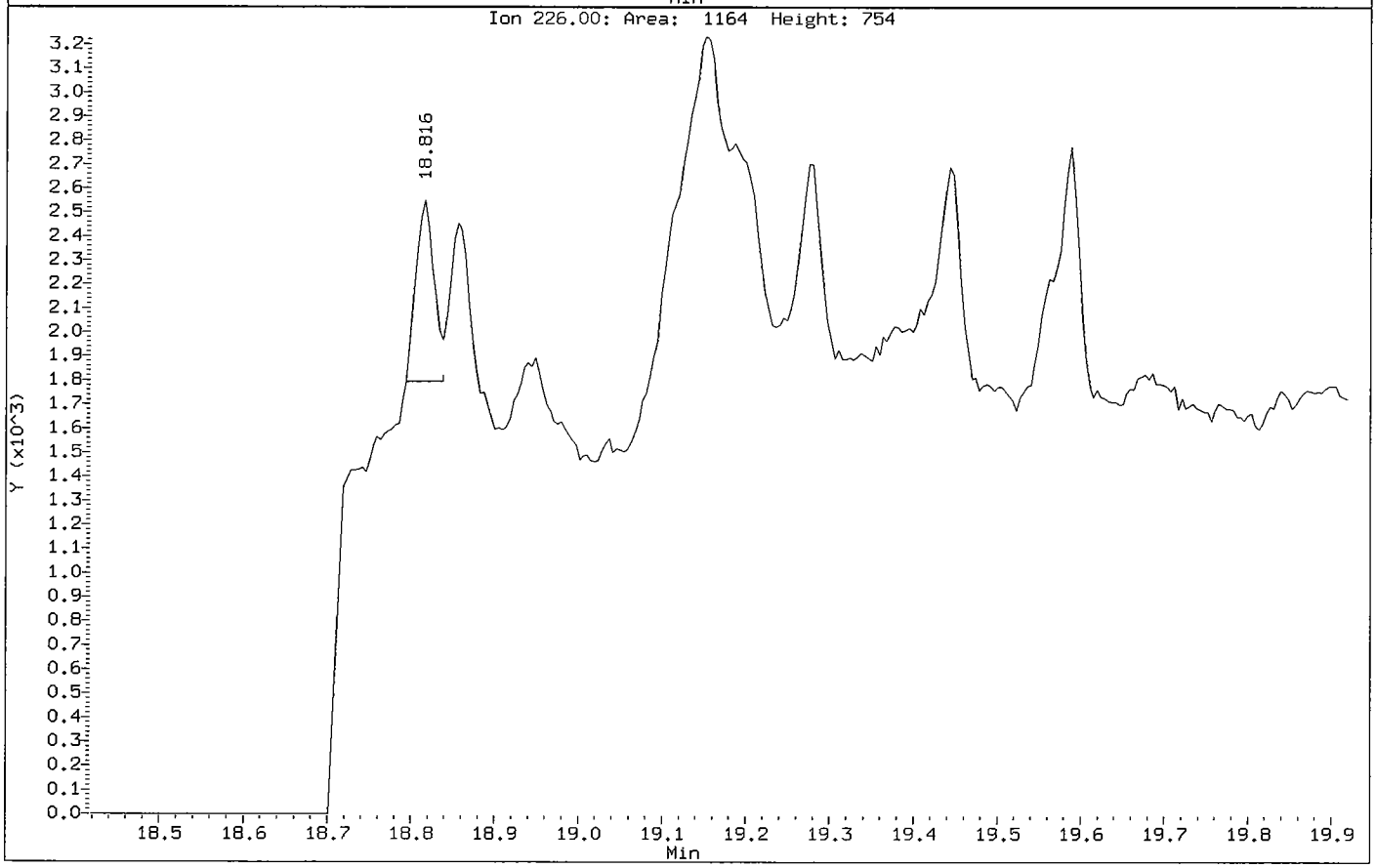


File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 19.20
Operator ID: MEW

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Injection Date: 24-JUN-2010 18:06
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1RE

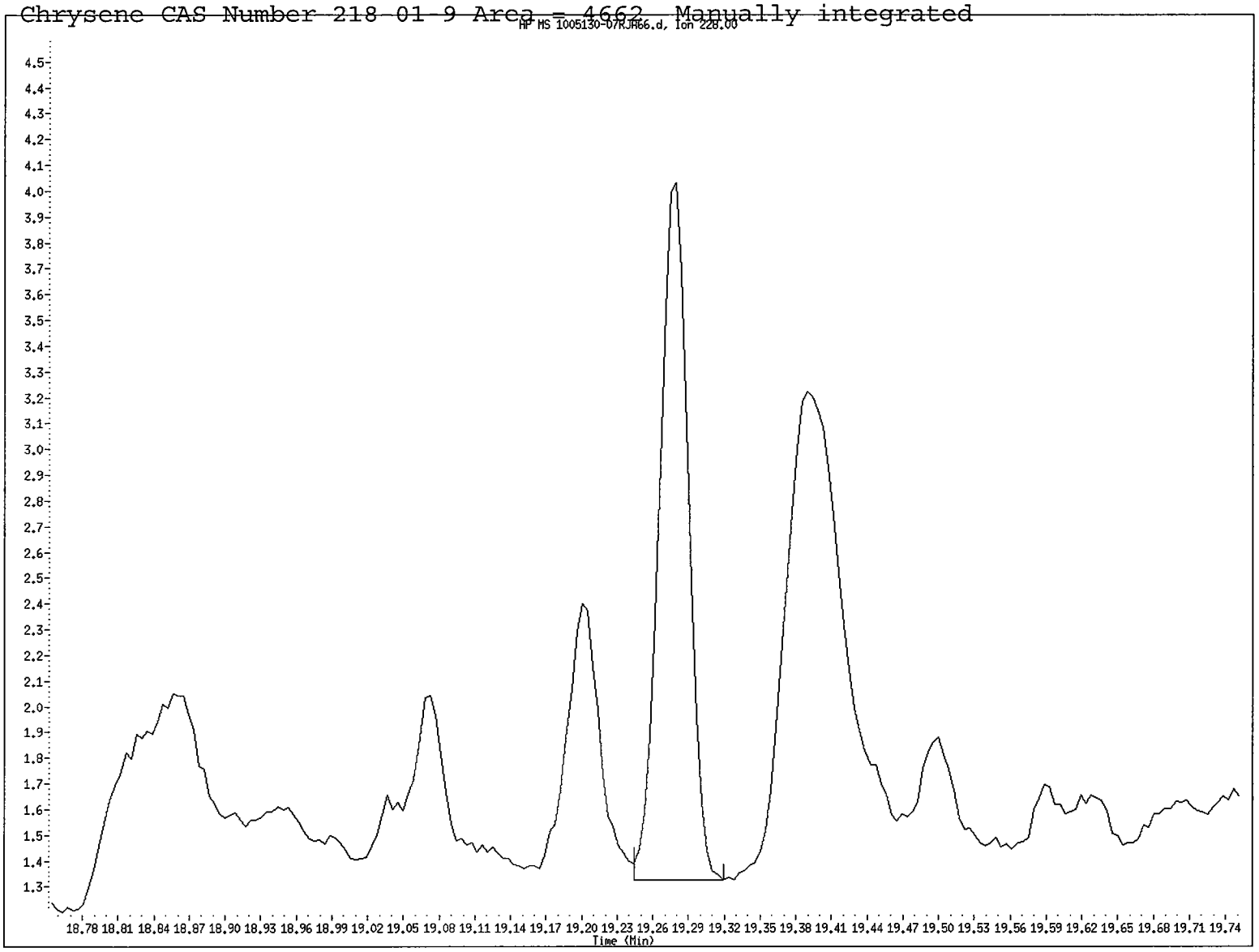
Compound: Benzo(a)anthracene
CAS Number: 56-55-3





Chrysene CAS Number 218-01-9 Area = 4662 User selected hit

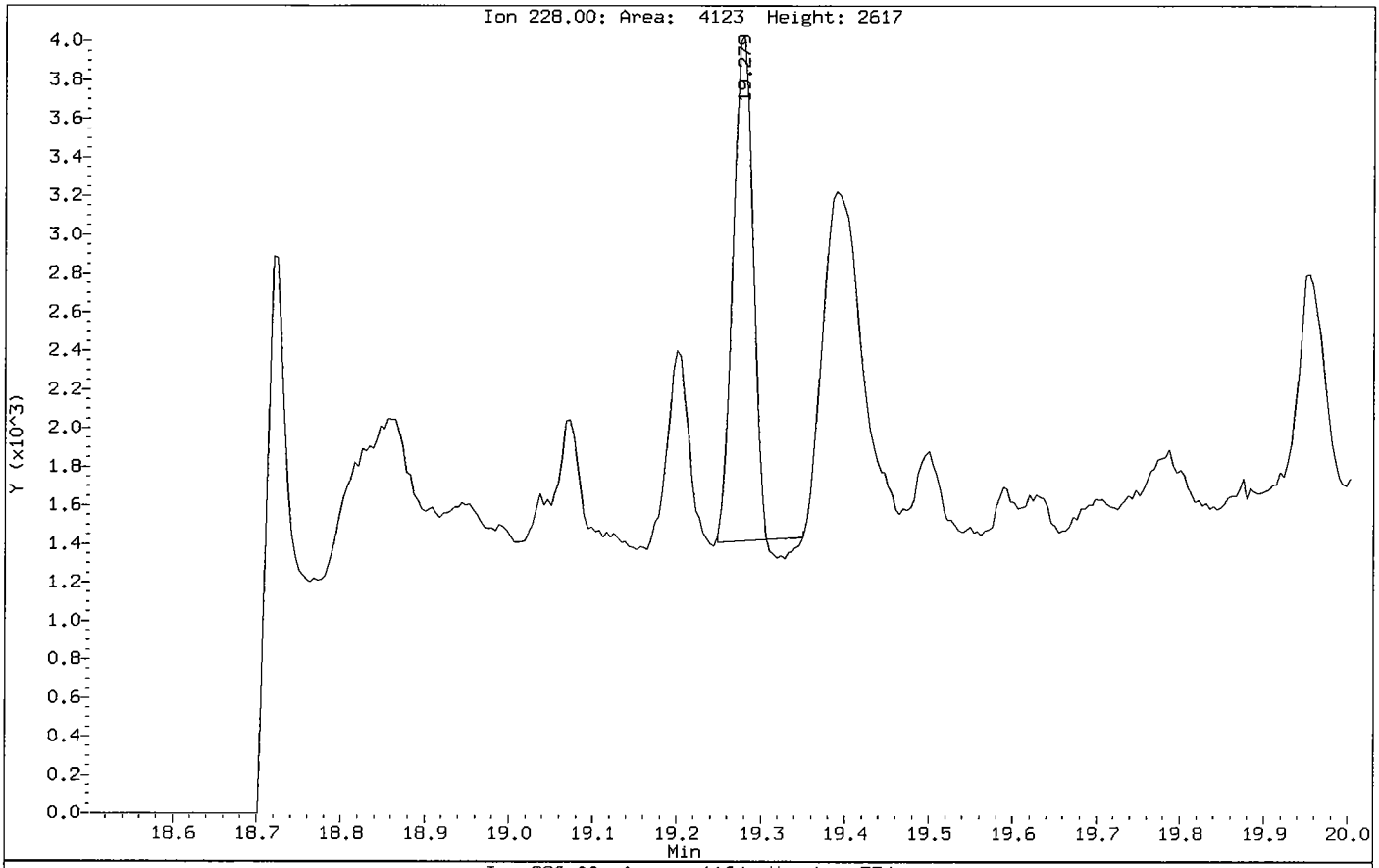
Chrysene CAS Number 218-01-9 Area = 4662 Manually integrated

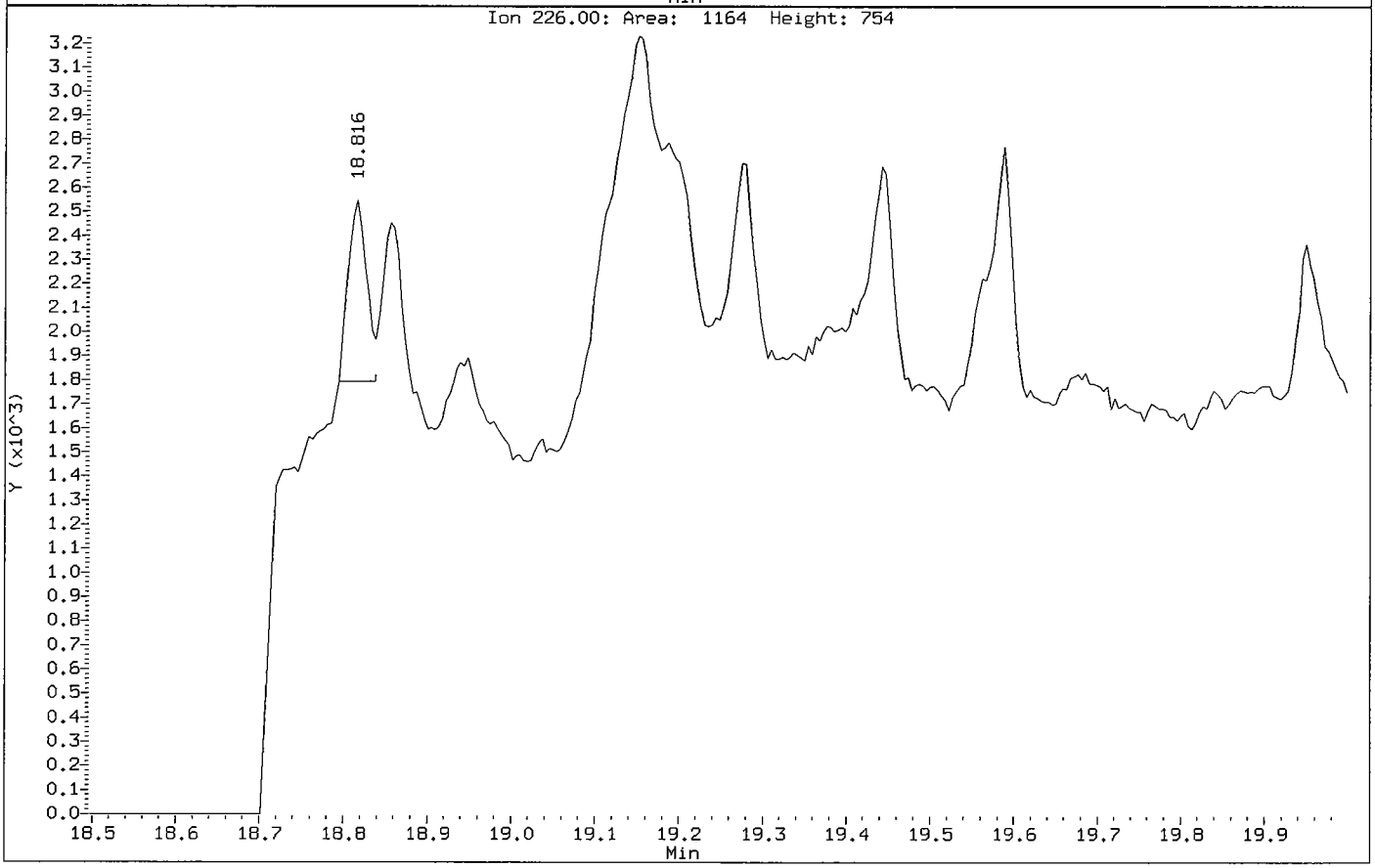


File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 19.28
Operator ID: MEW

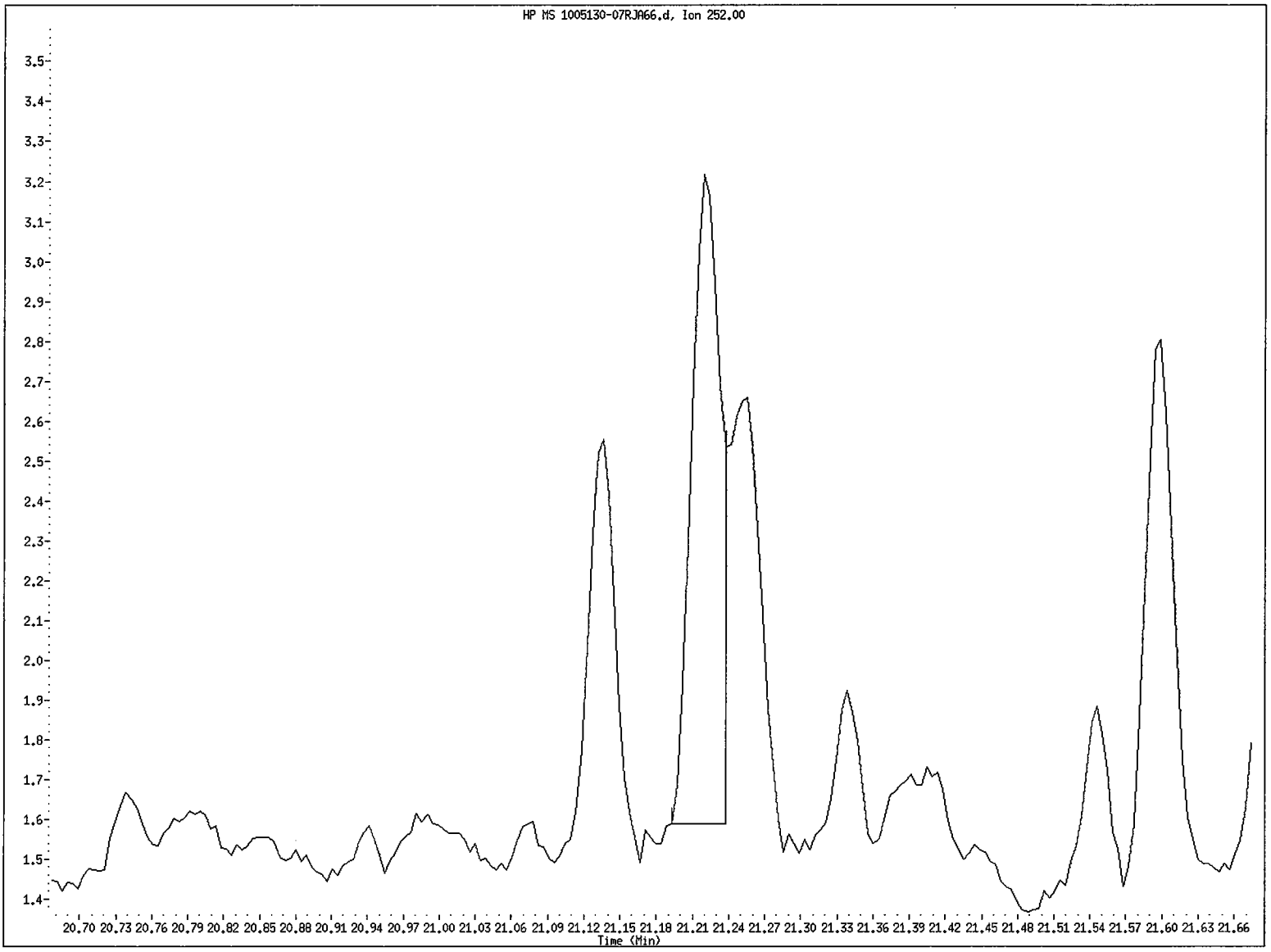
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Injection Date: 24-JUN-2010 18:06
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1RE

Compound: Chrysene
CAS Number: 218-01-9





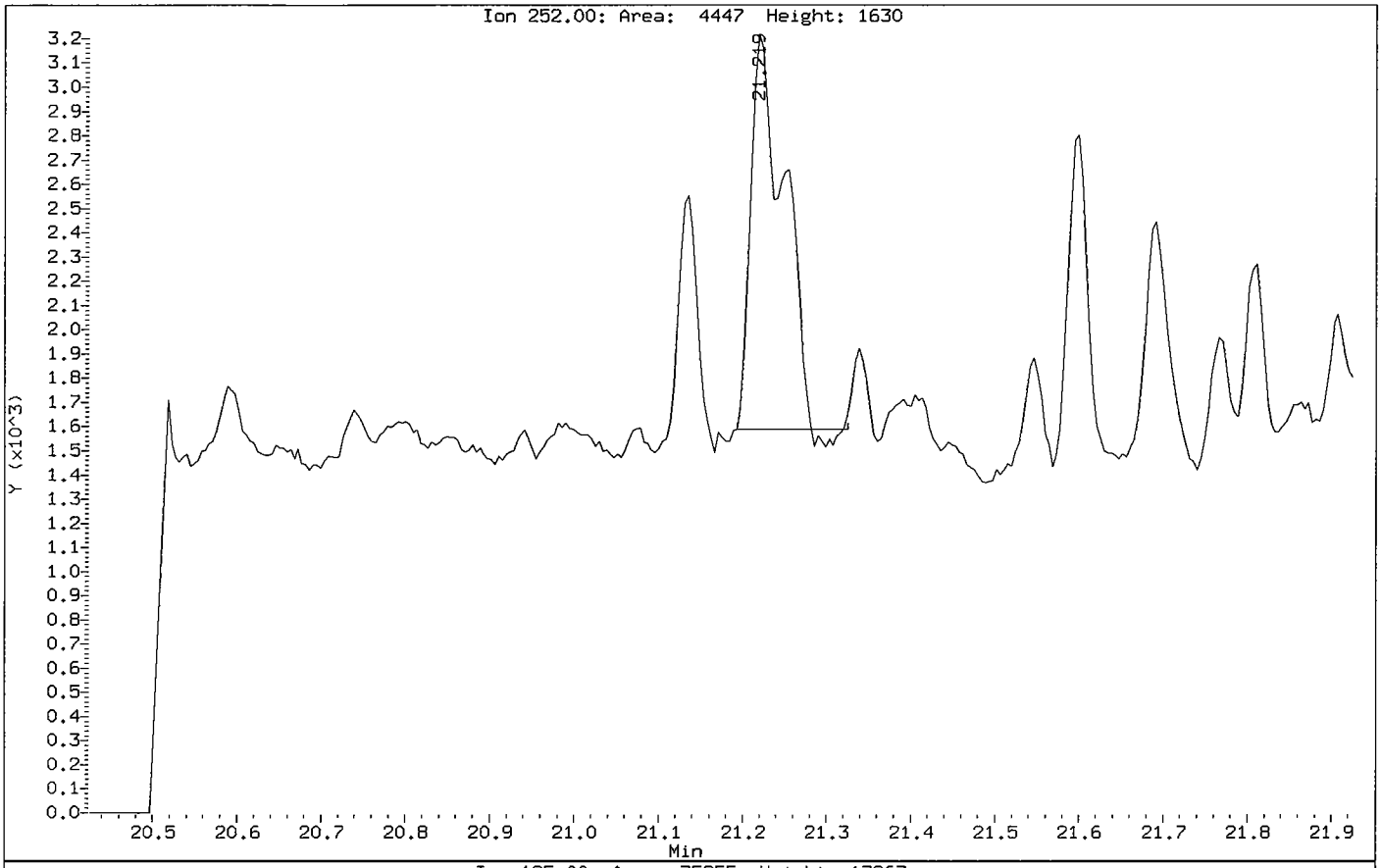
Benzo(b)fluoranthene CAS Number 205-99-2 Area = 2730 Manually integrated

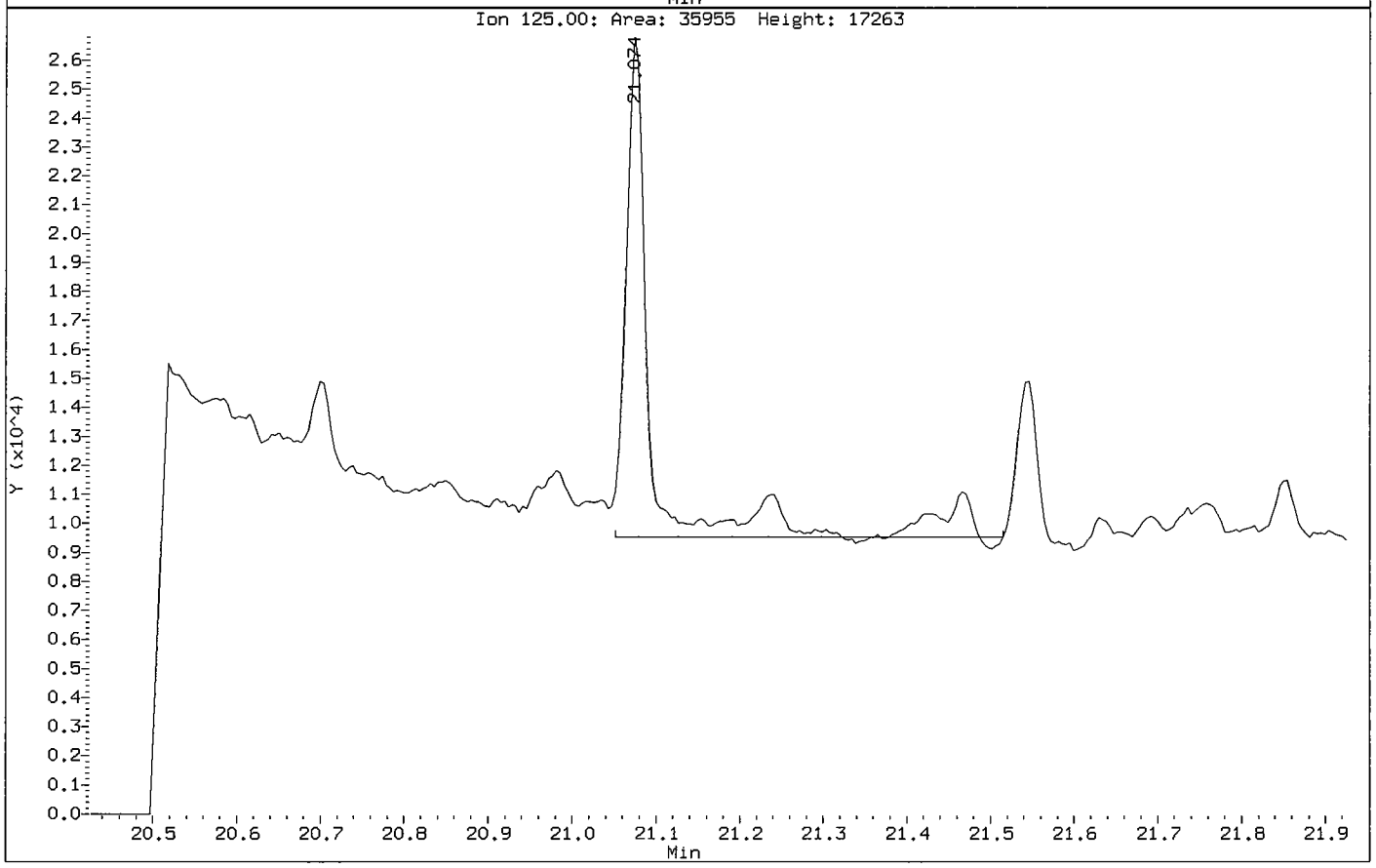


File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 21.22
Operator ID: MEW

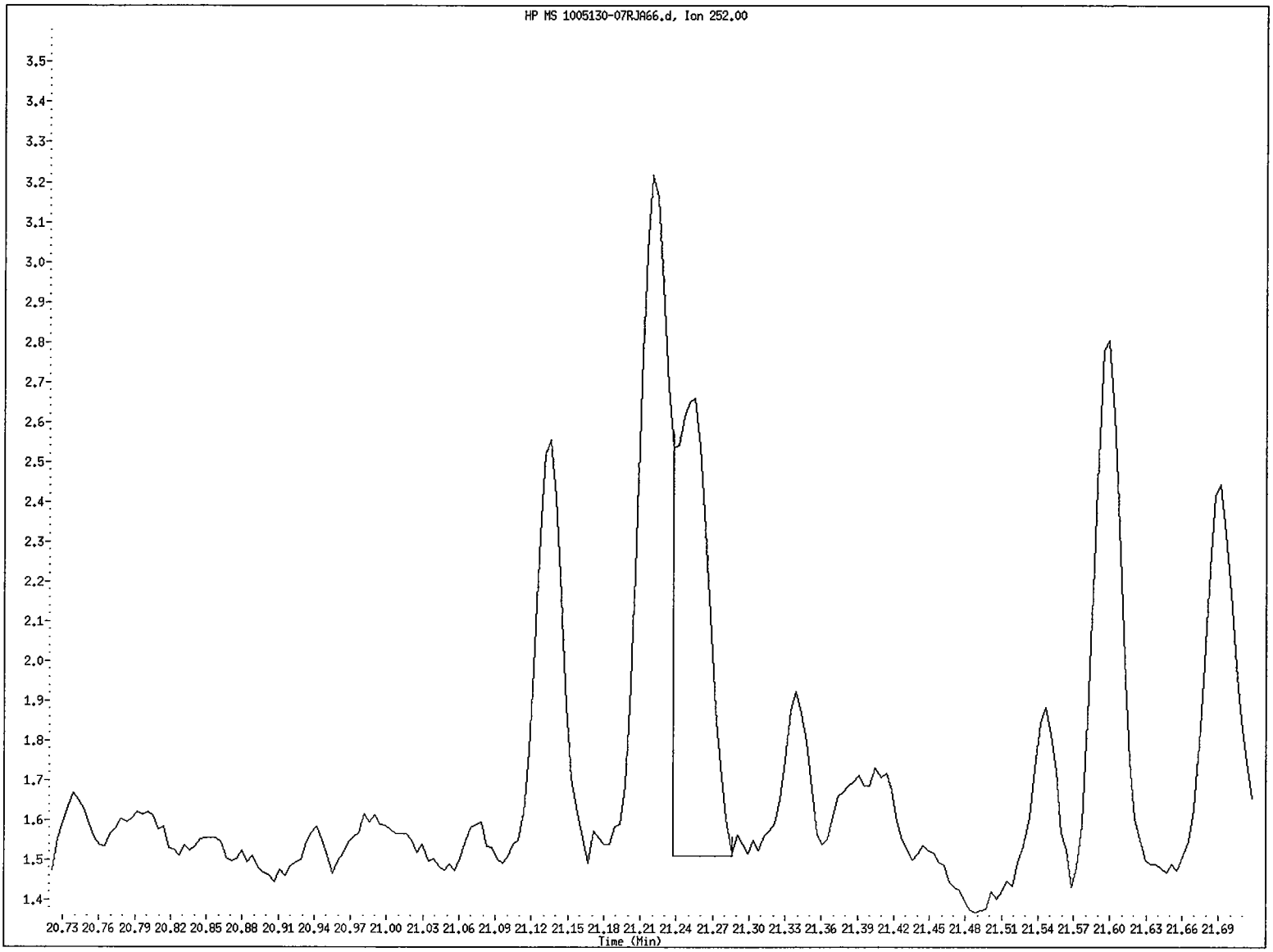
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Injection Date: 24-JUN-2010 18:06
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1RE

Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2





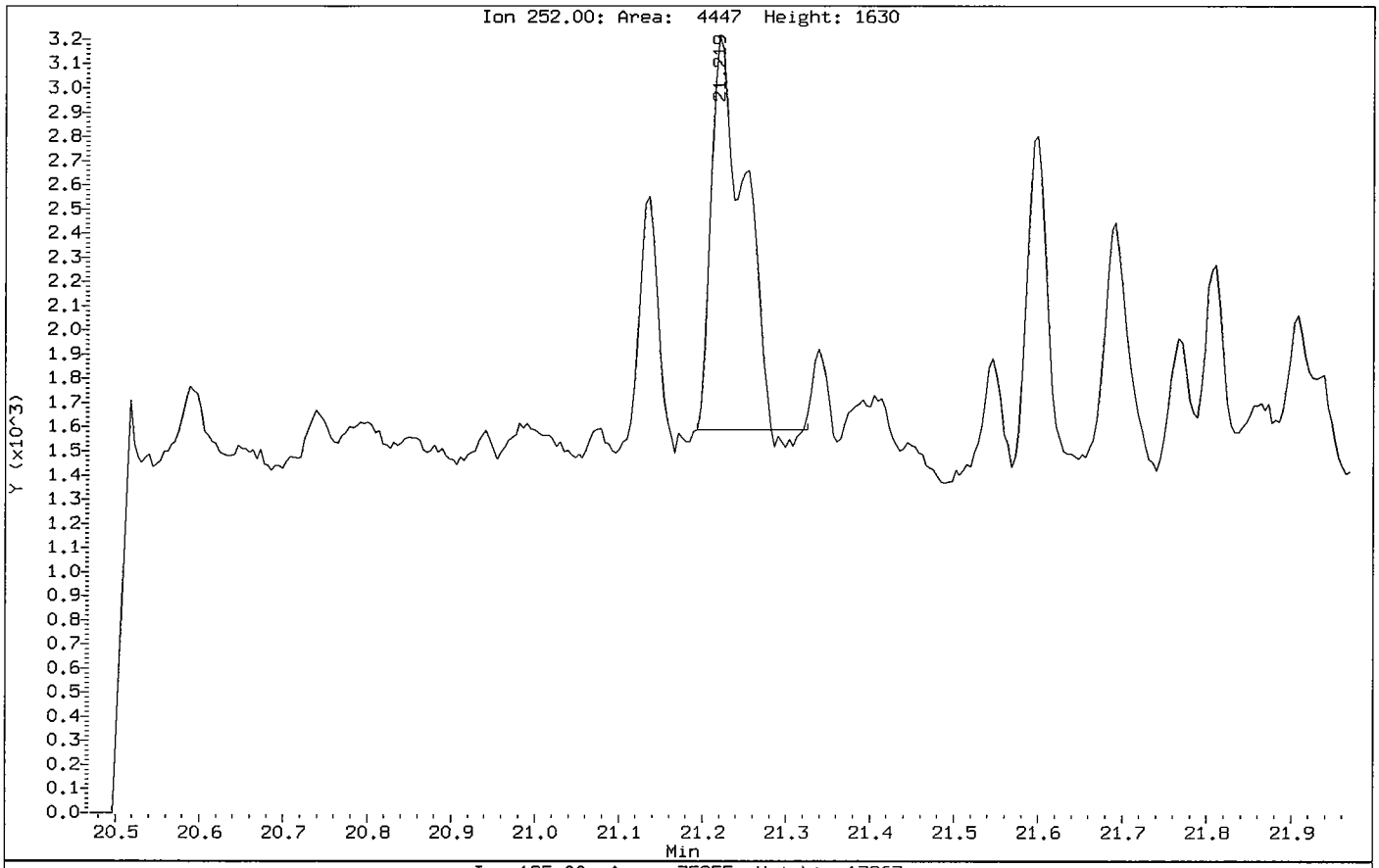
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 2272 Manually integrated

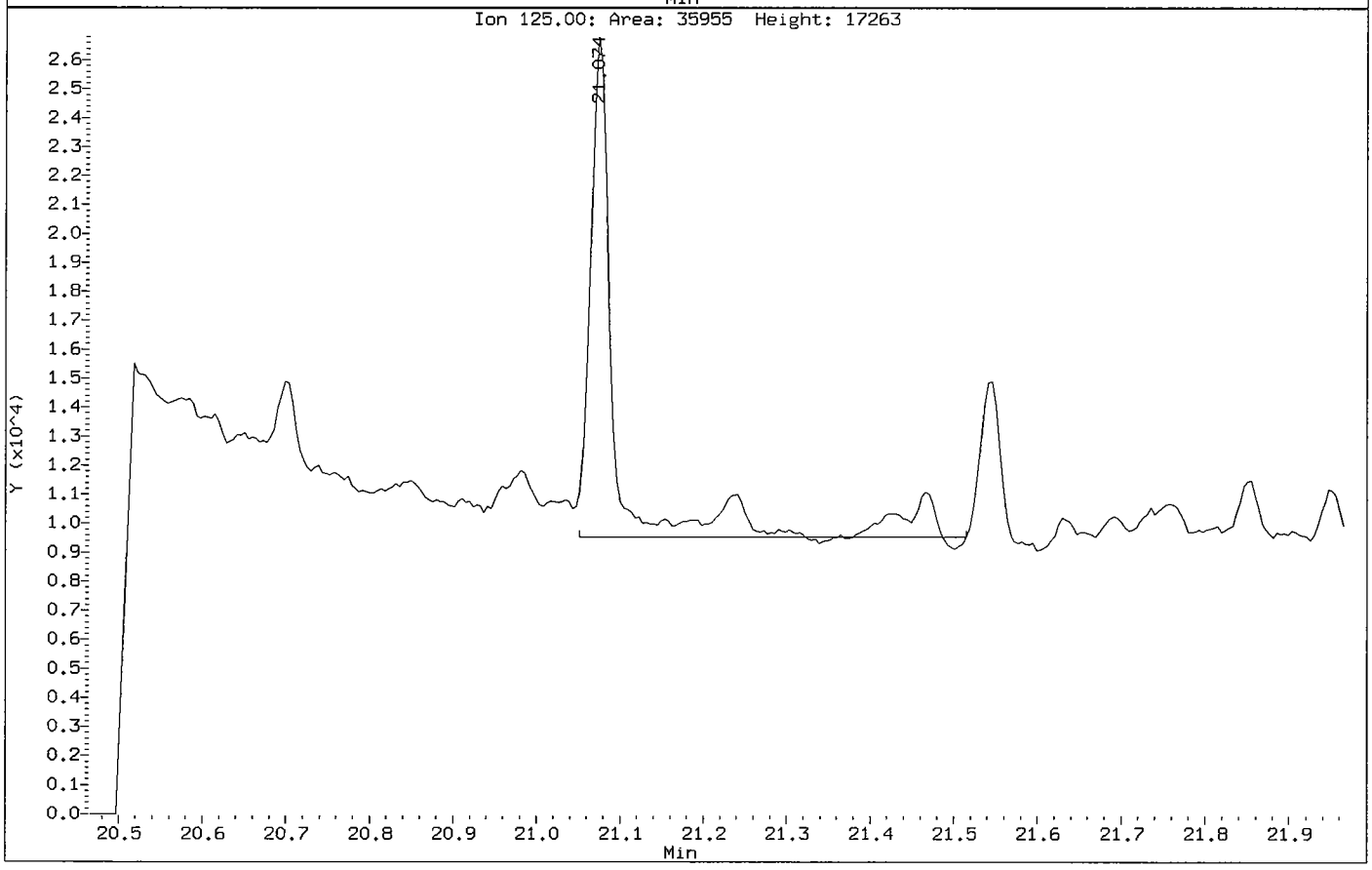


File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 21.25
Operator ID: MEW

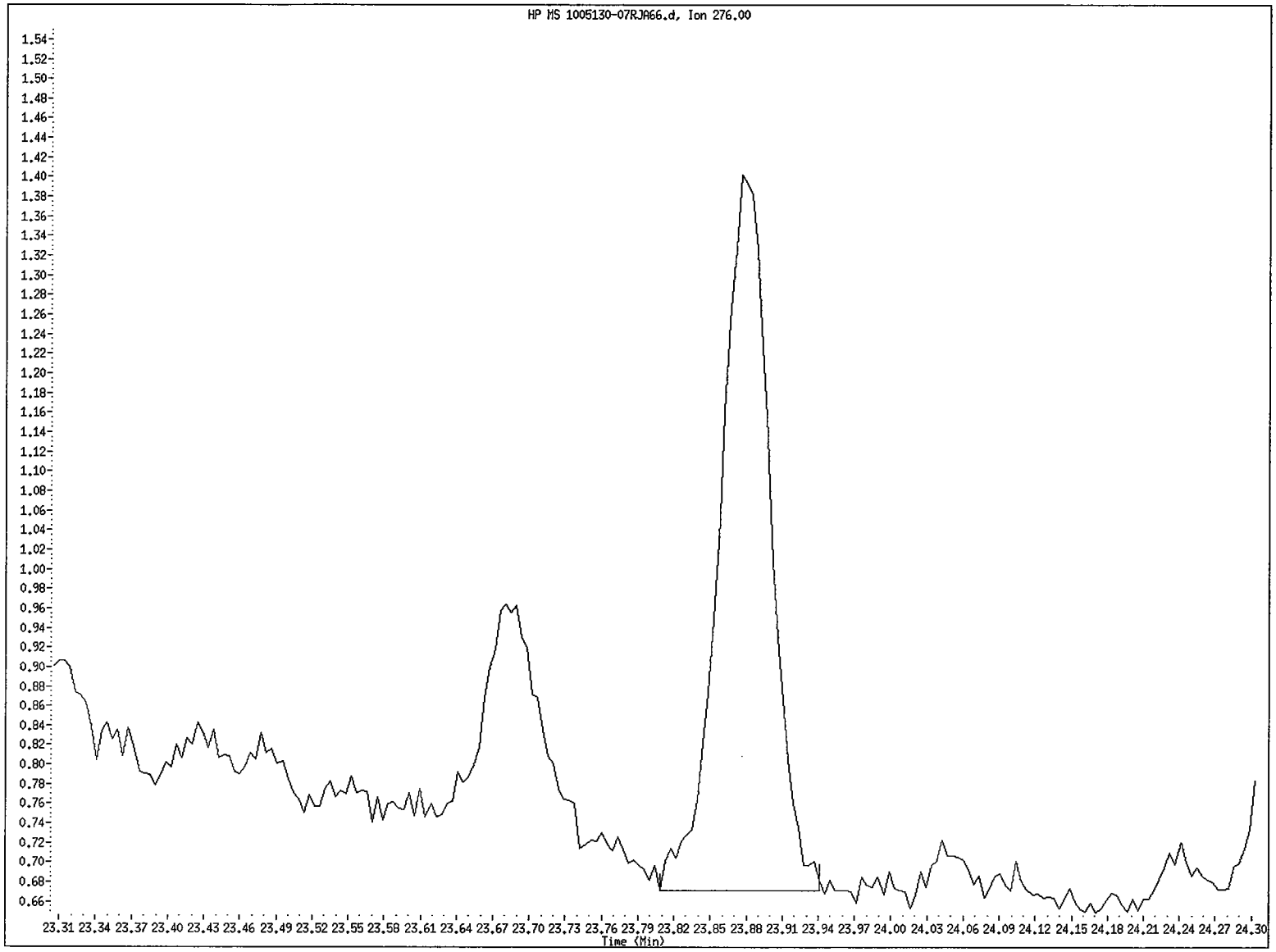
Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Injection Date: 24-JUN-2010 18:06
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1RE

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9



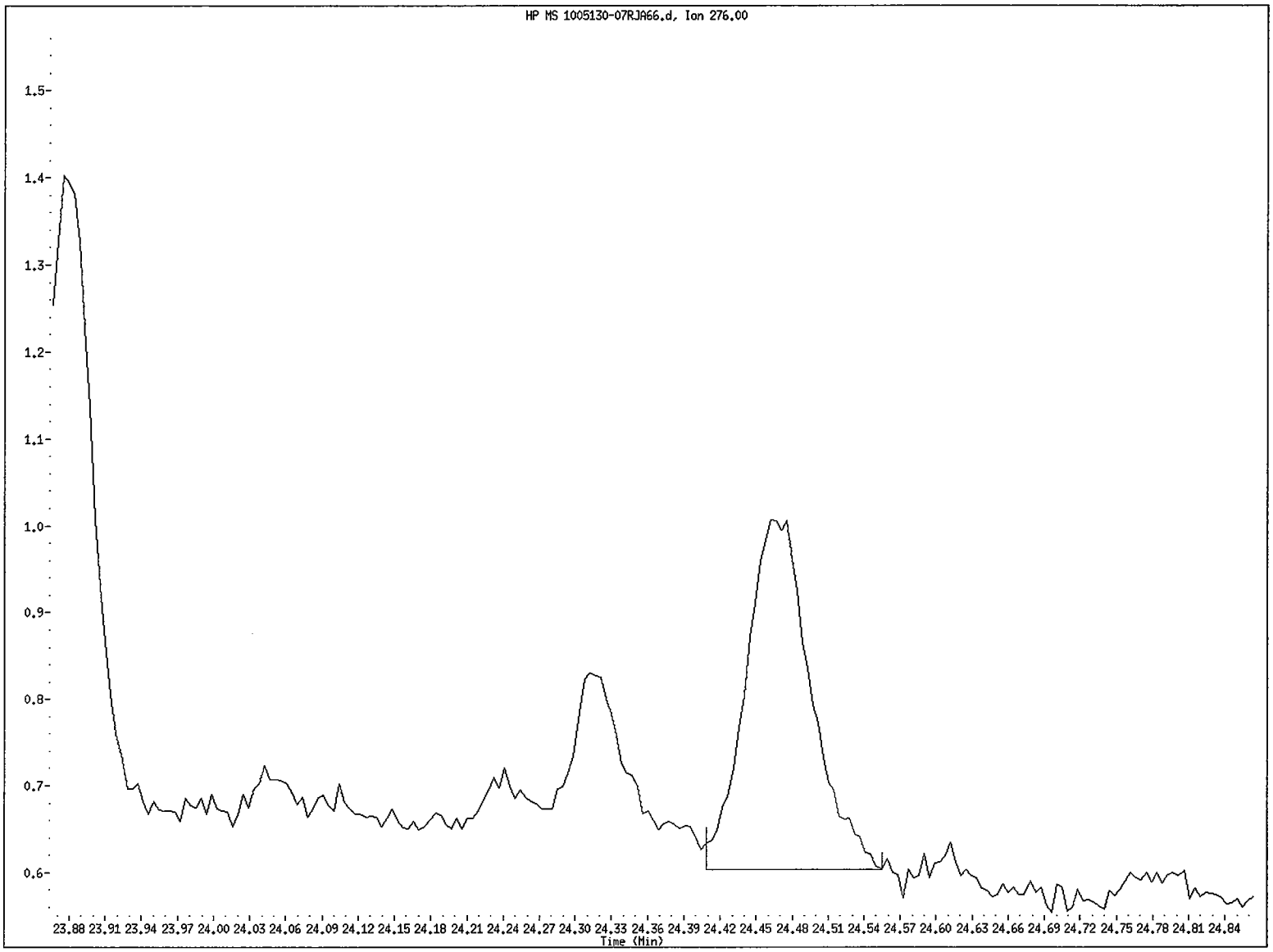


Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 2148 Manually integrated



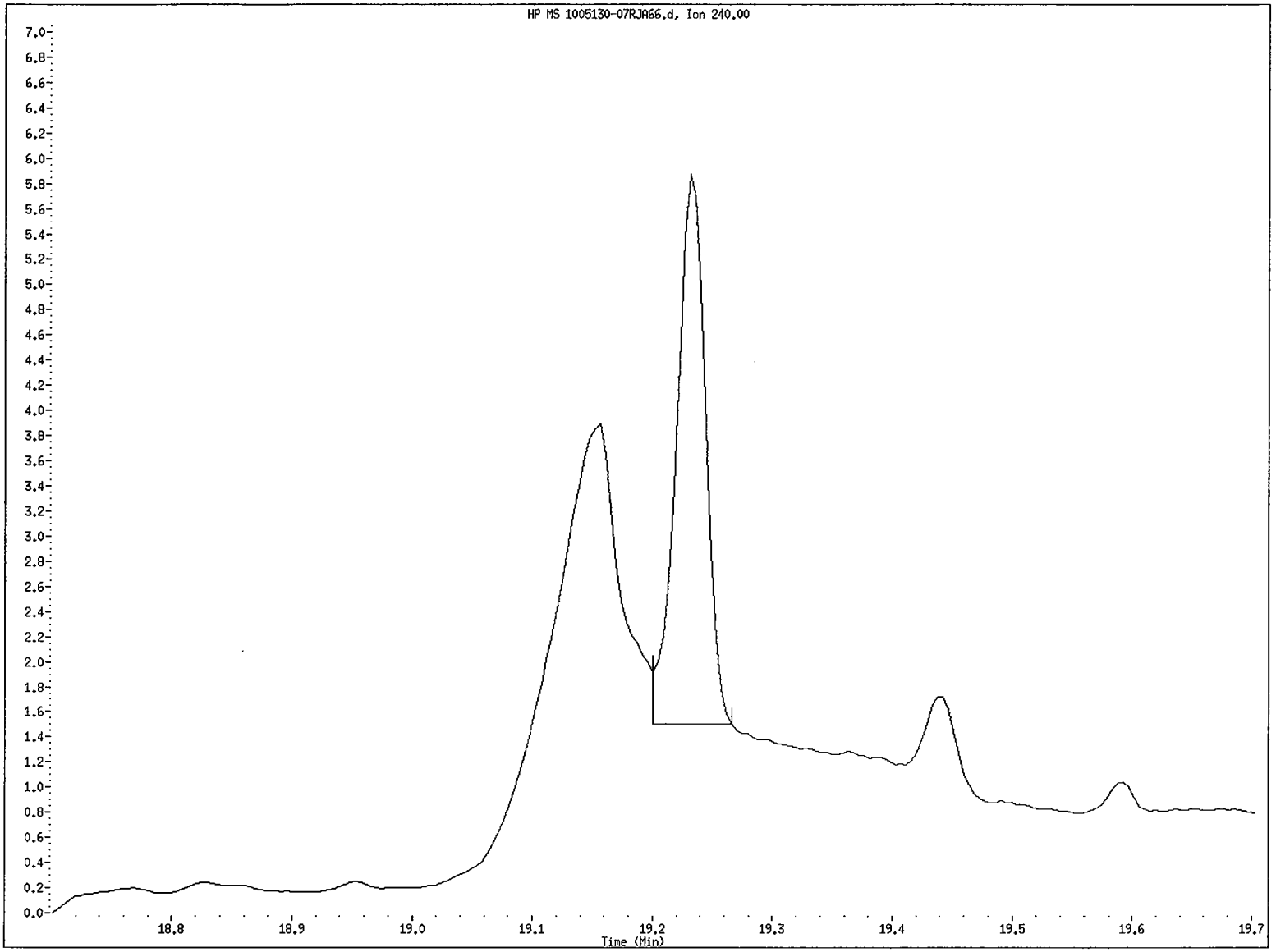
File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 23.87
Operator ID: MEW

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 1532 Manually integrated



File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 24.46
Operator ID: MEW

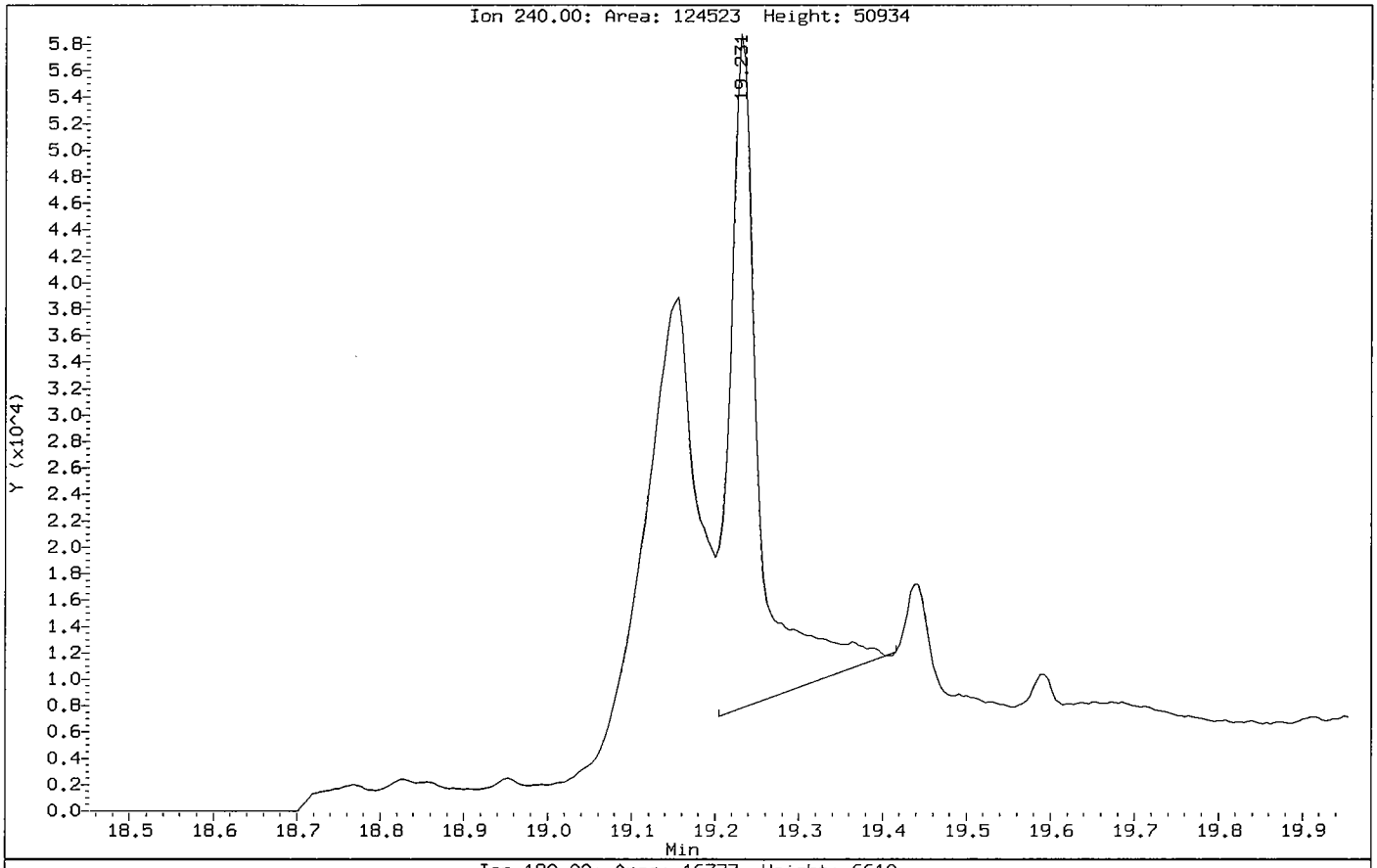
Chrysene-d12 CAS Number 1719-03-5 Area = 74460 Manually integrated

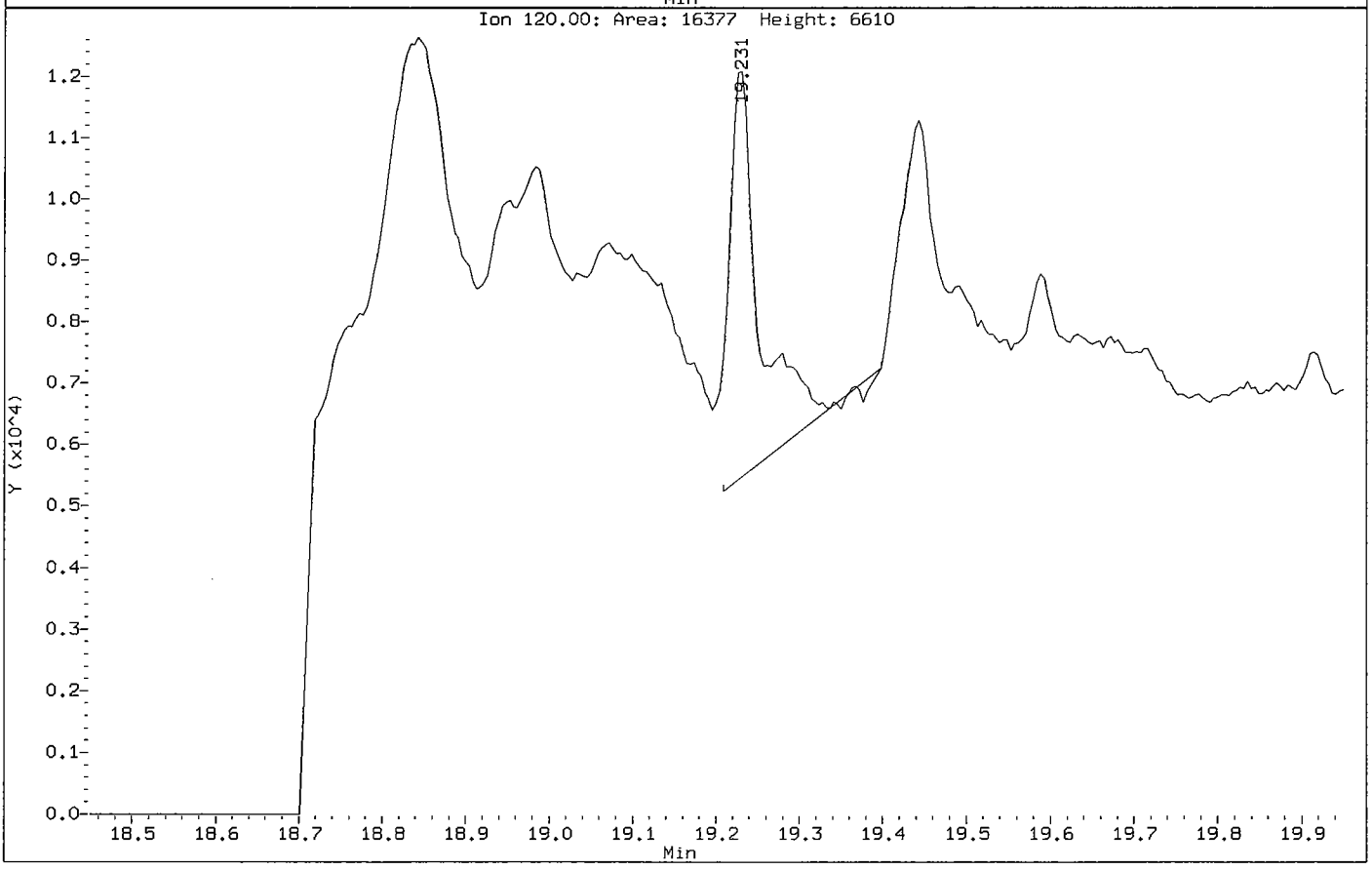


File name: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Client ID: SS50-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 24-JUN-2010 18:06
Retention Time: 19.23
Operator ID: MEW

Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d
Injection Date: 24-JUN-2010 18:06
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1RE

Compound: Chrysene-d12
CAS Number: 1719-03-5





Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

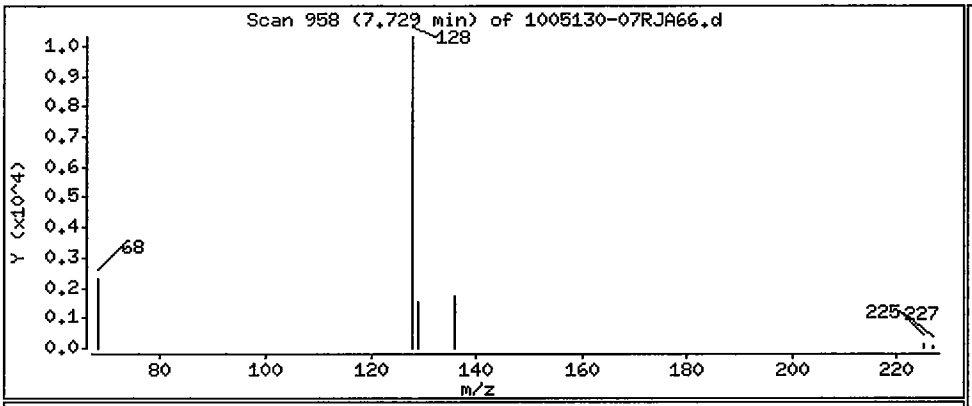
Operator: MEW

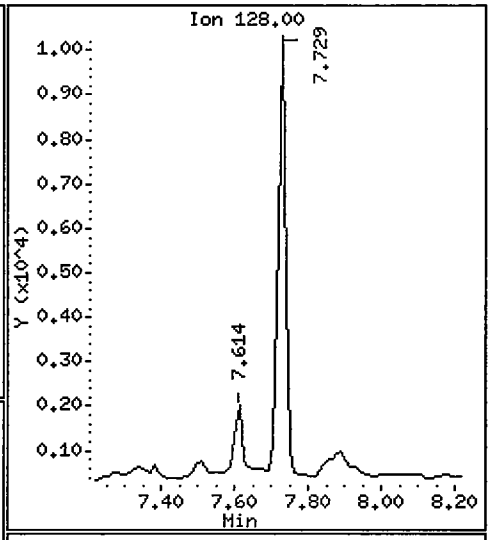
Column phase: Rtx-5MS

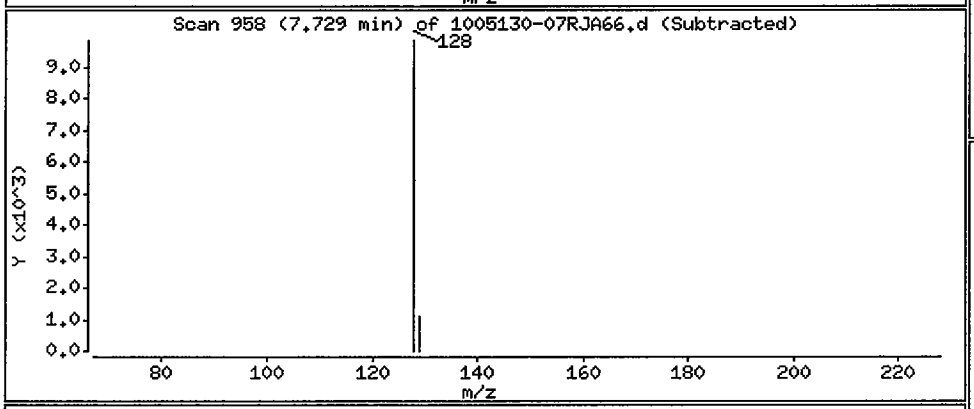
Column diameter: 0.32

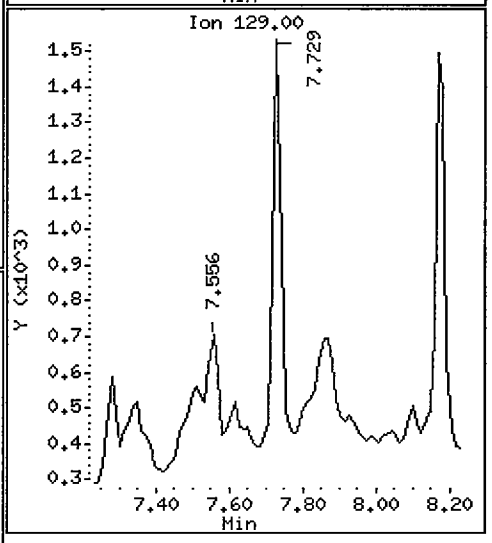
13 Naphthalene

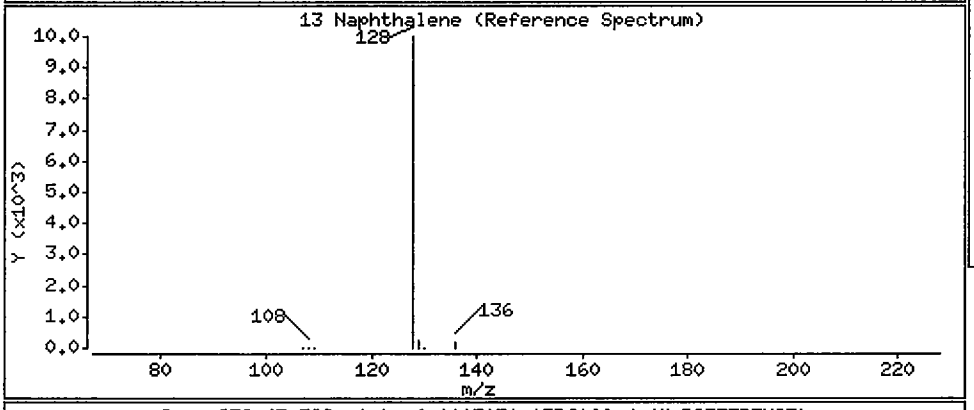
Concentration: 5.8 ug/Kg

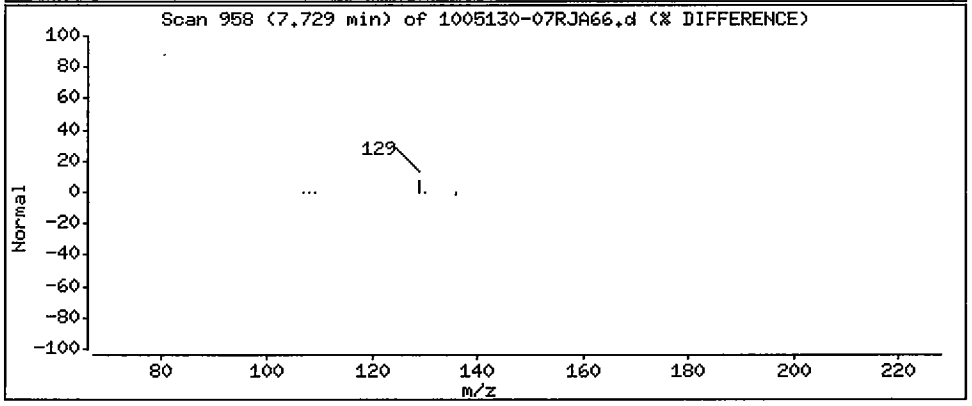












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

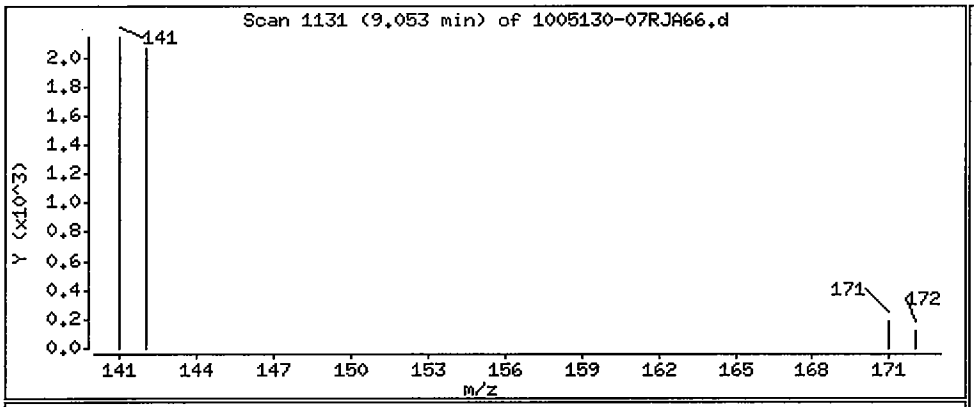
Operator: MEW

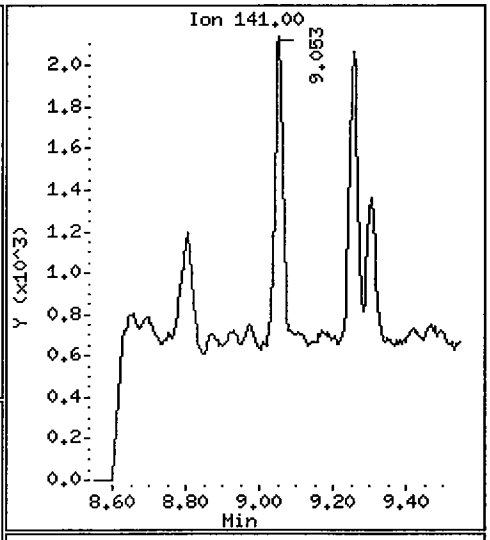
Column phase: Rtx-5MS

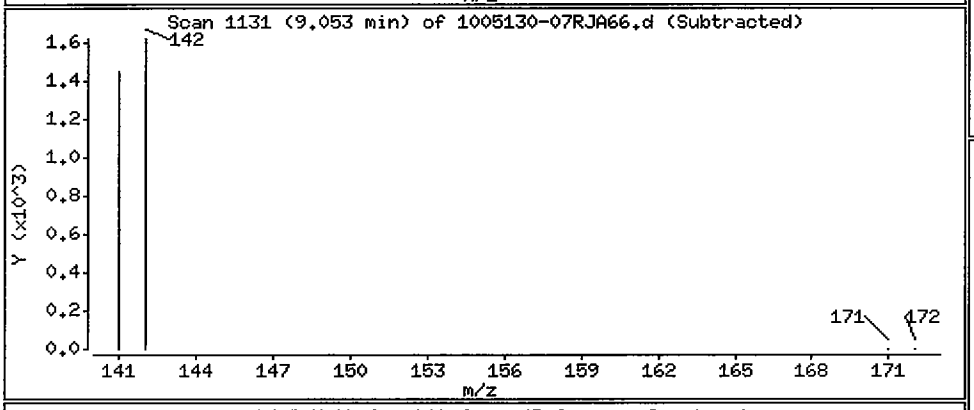
Column diameter: 0.32

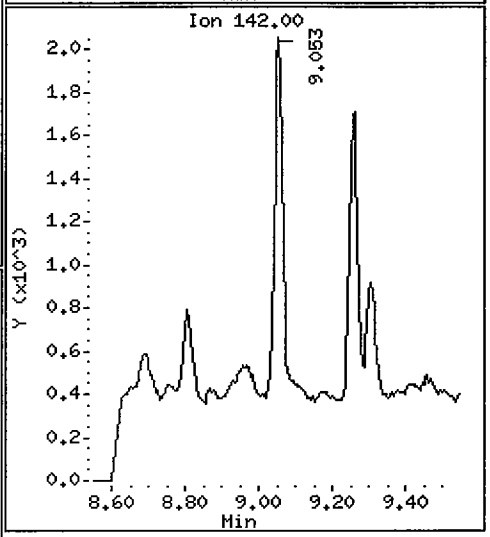
15 2-Methylnaphthalene

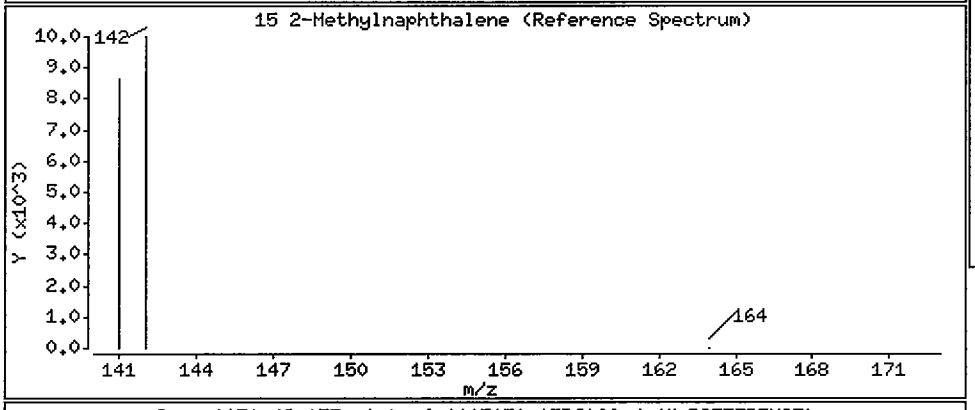
Concentration: 1.7 ug/Kg

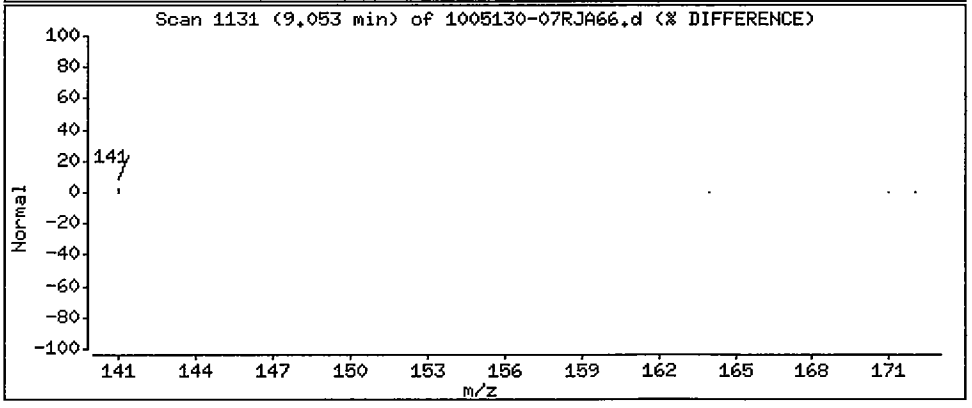












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

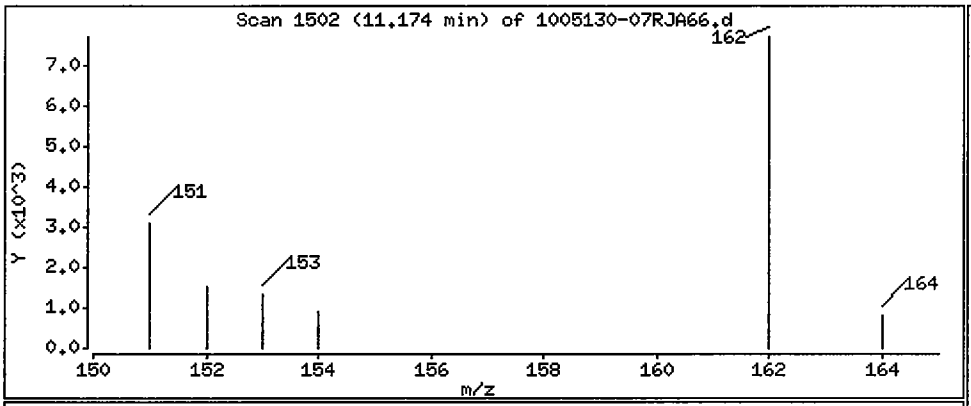
Operator: MEW

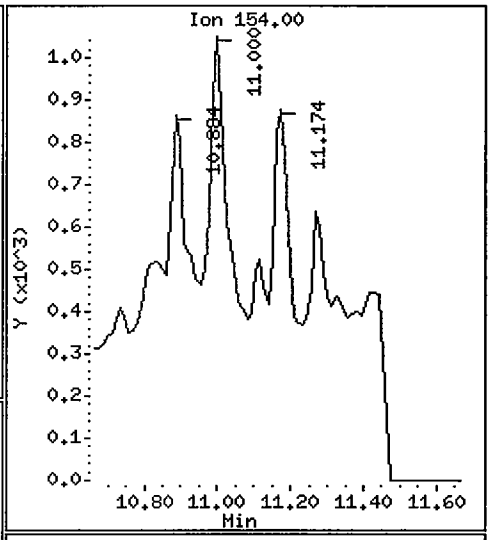
Column phase: Rtx-5MS

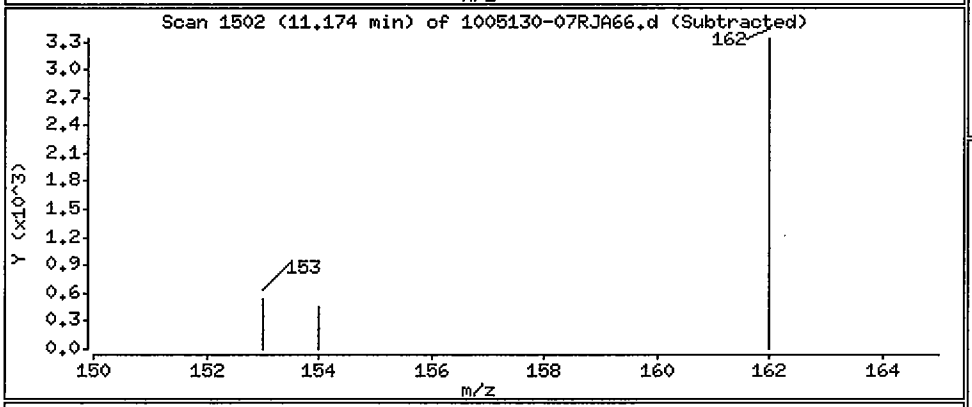
Column diameter: 0.32

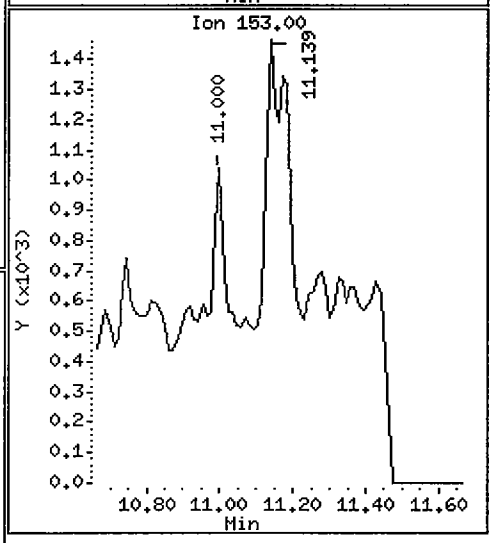
18 Acenaphthene

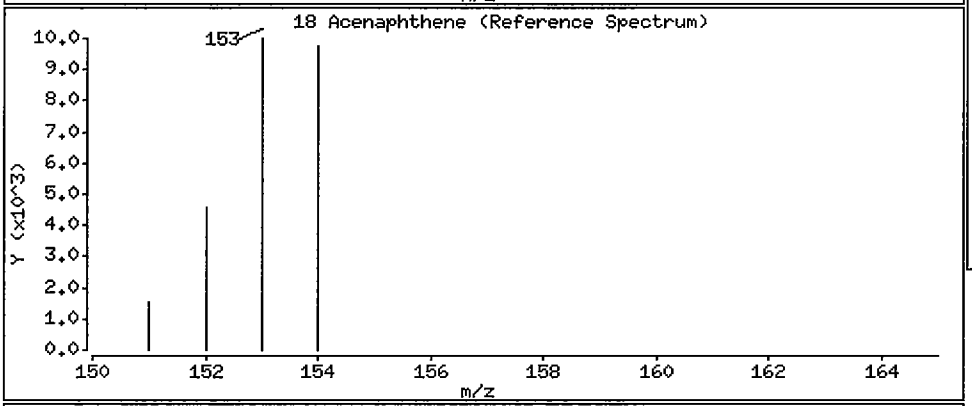
Concentration: 0.93 ug/Kg

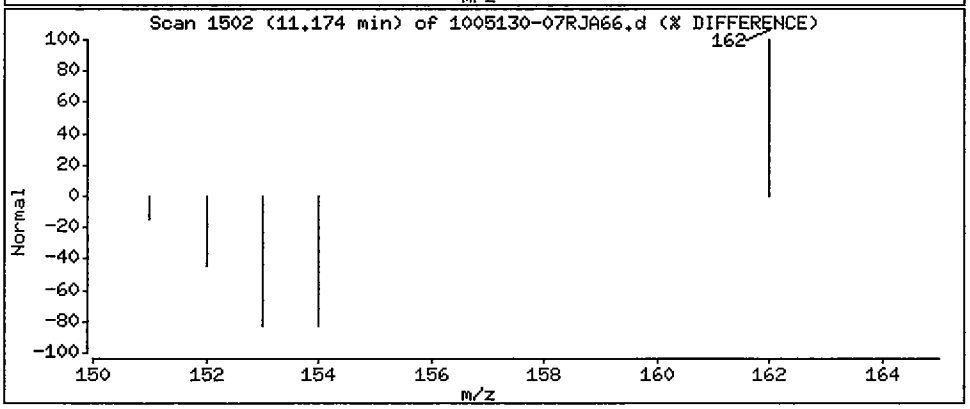












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

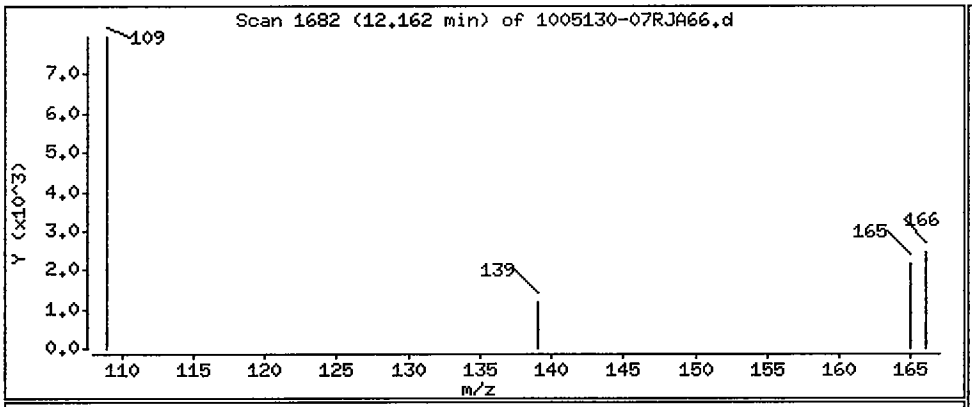
Operator: MEW

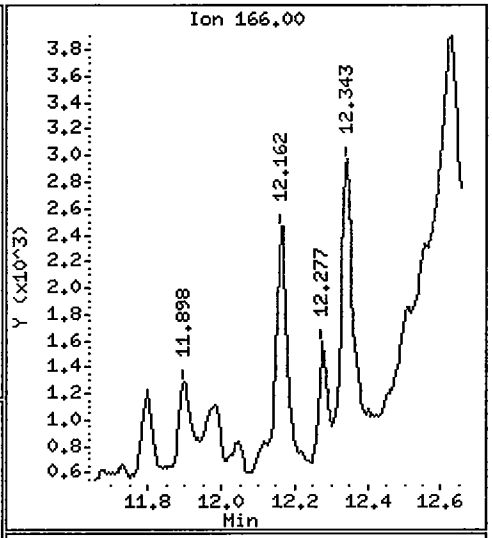
Column phase: Rtx-5MS

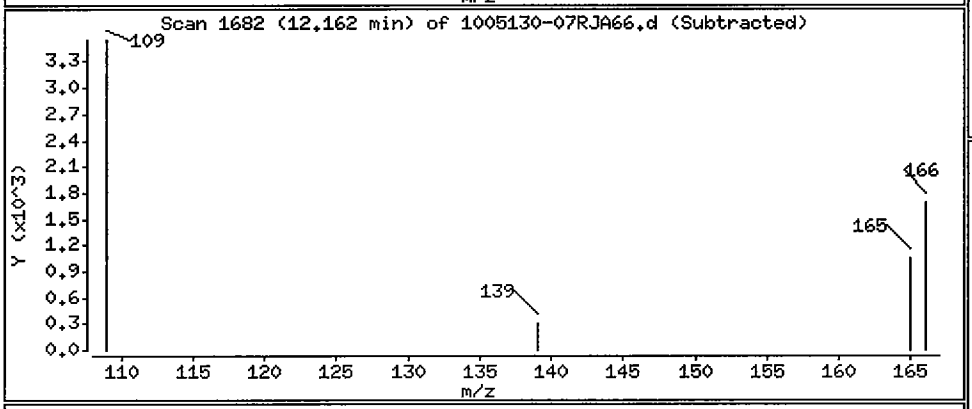
Column diameter: 0.32

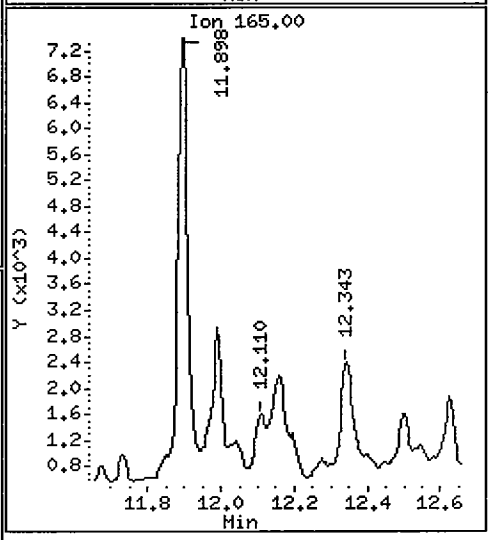
21 Fluorene

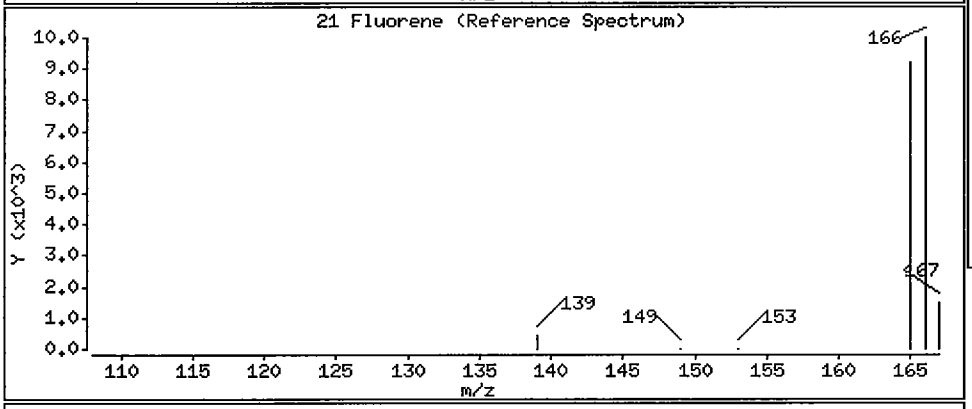
Concentration: 2.1 ug/Kg

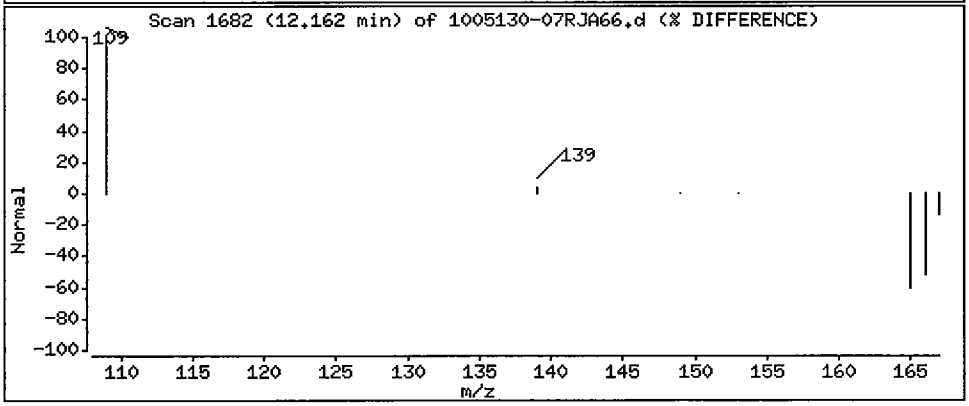












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

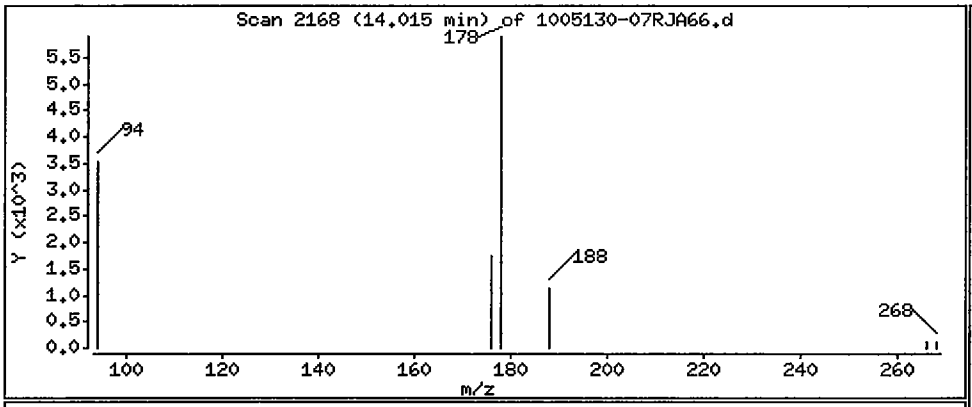
Operator: MEW

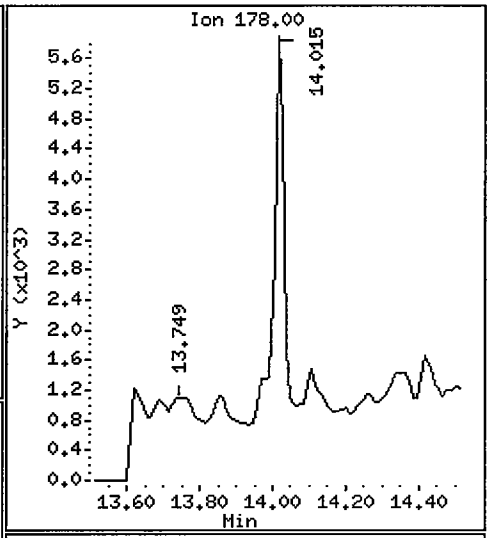
Column phase: Rtx-5MS

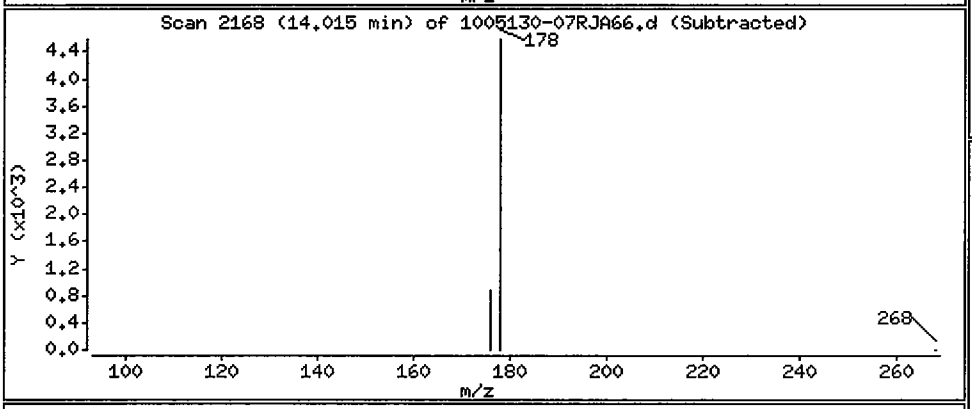
Column diameter: 0.32

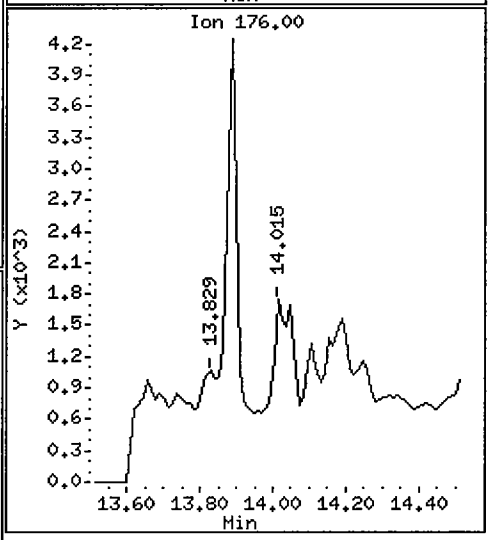
25 Phenanthrene

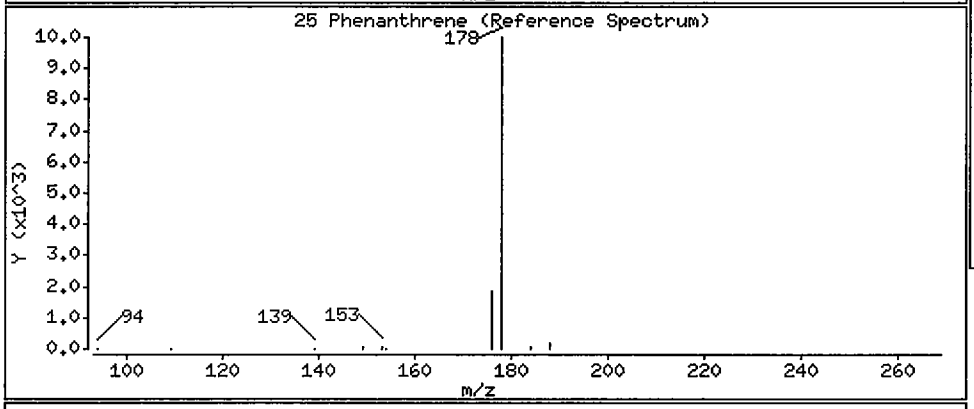
Concentration: 4.4 ug/Kg

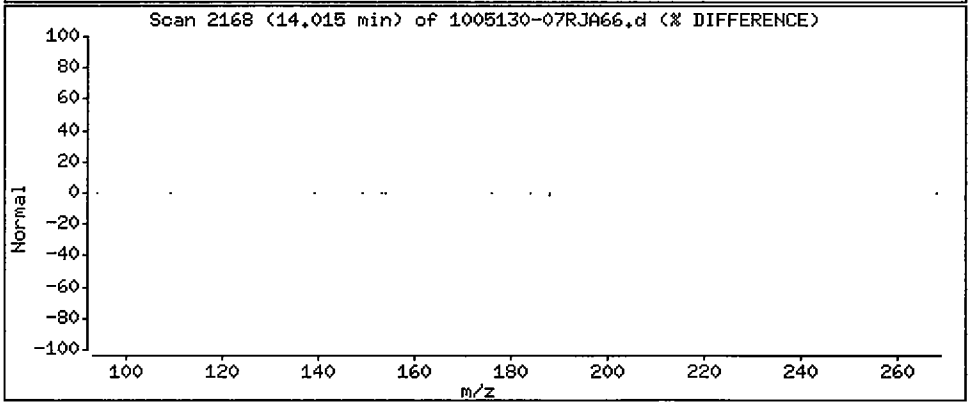












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

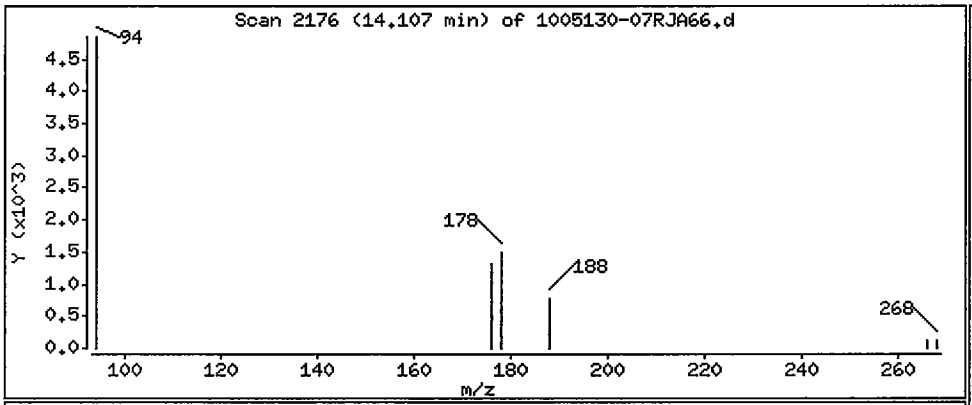
Operator: MEW

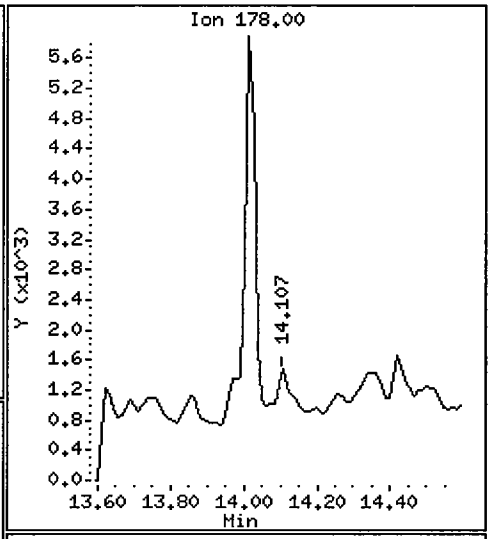
Column phase: Rtx-5MS

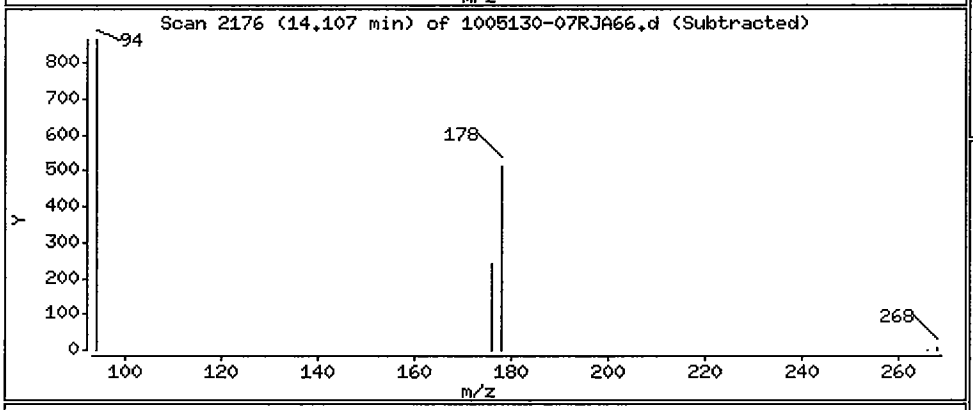
Column diameter: 0.32

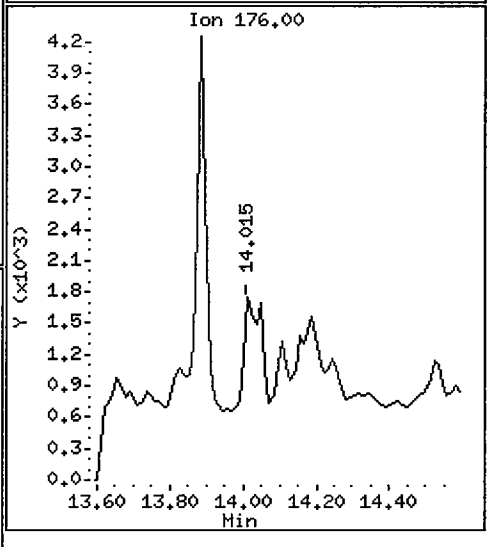
26 Anthracene

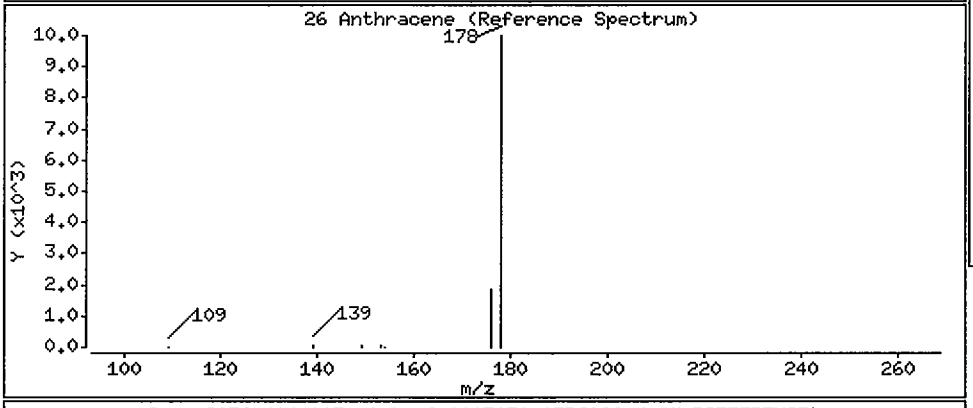
Concentration: 0.69 ug/Kg

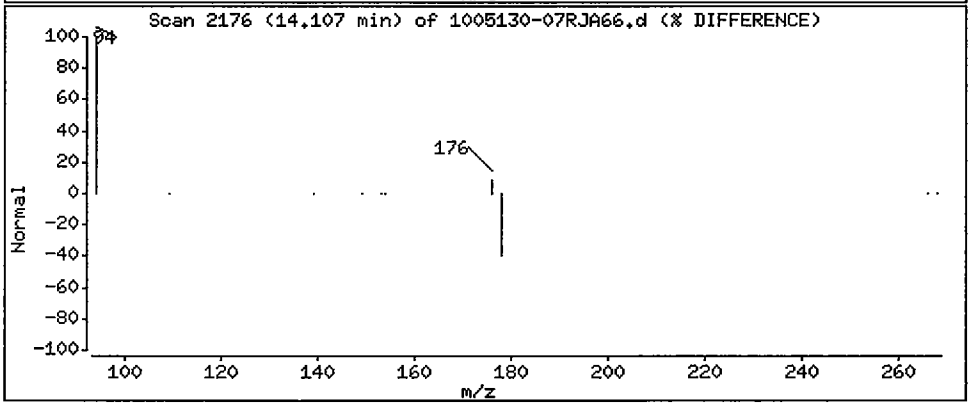












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

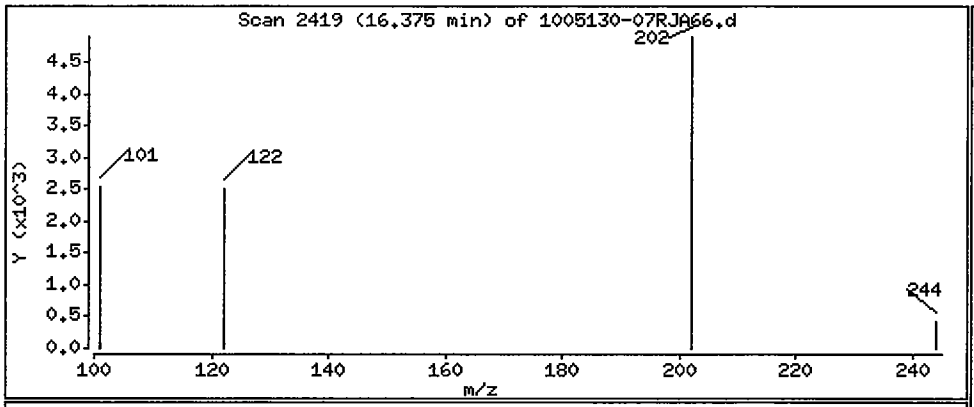
Operator: MEW

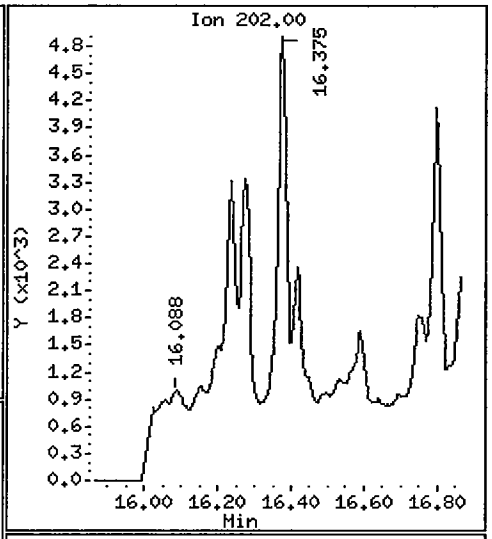
Column phase: Rtx-5MS

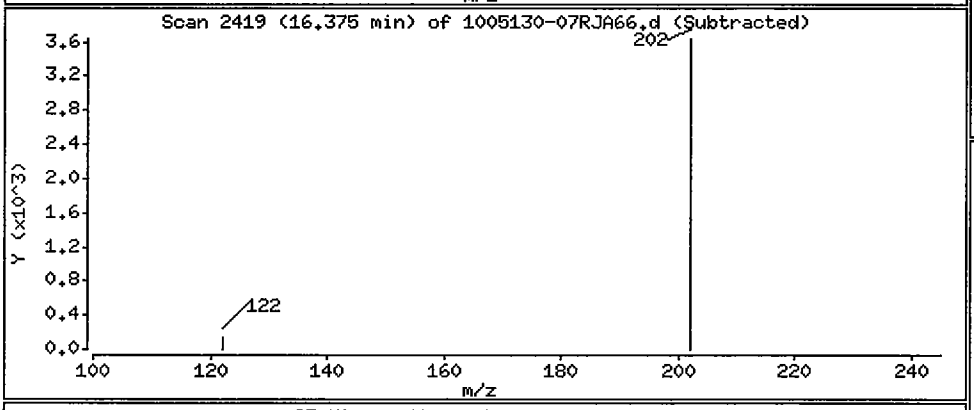
Column diameter: 0.32

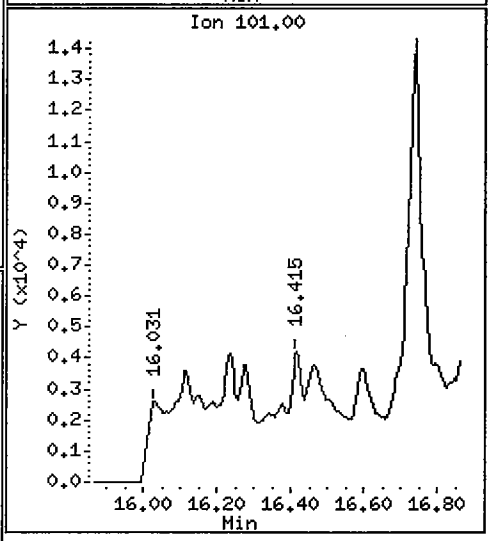
27 Fluoranthene

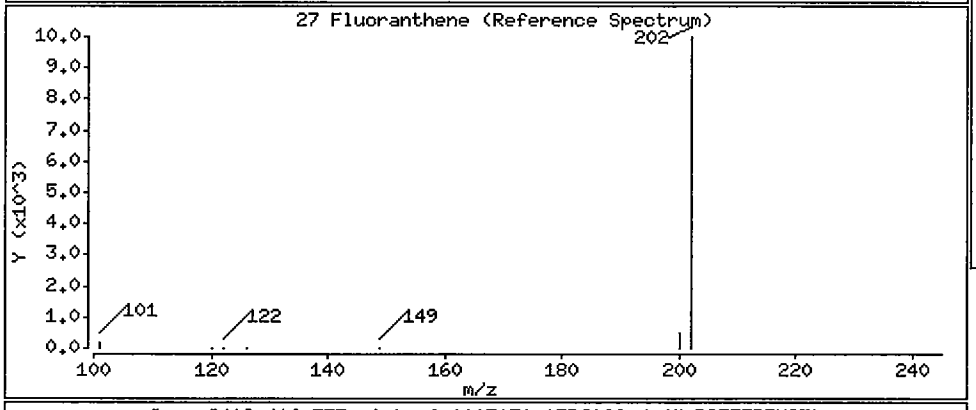
Concentration: 2.4 ug/Kg

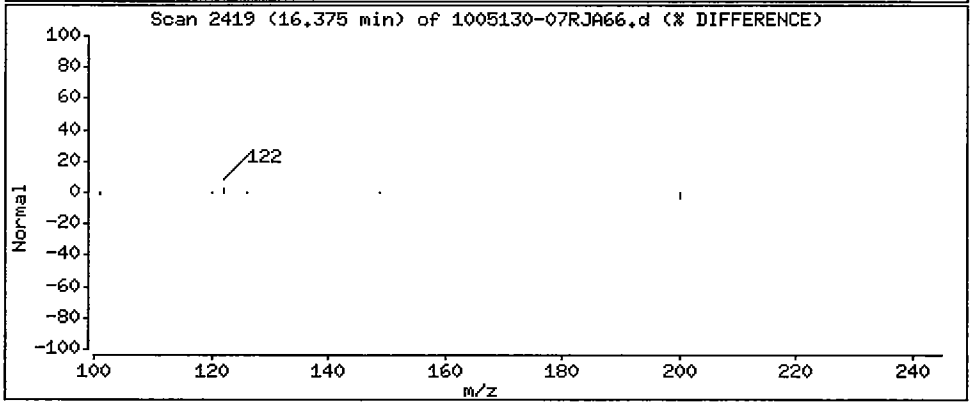












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

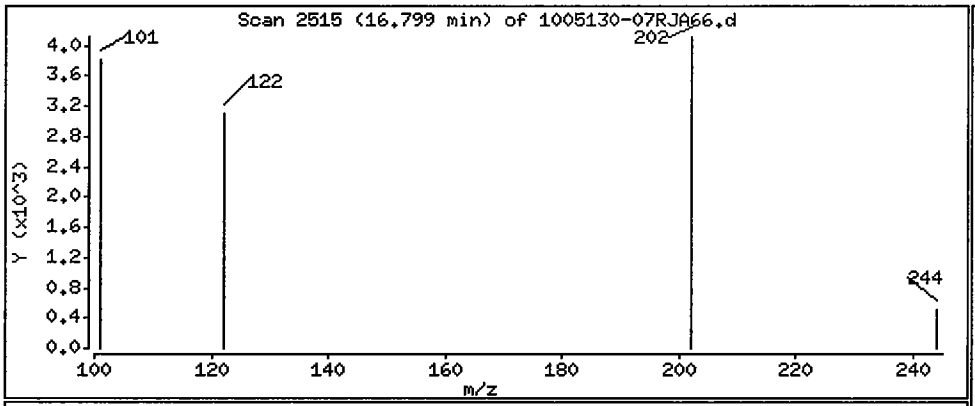
Operator: MEW

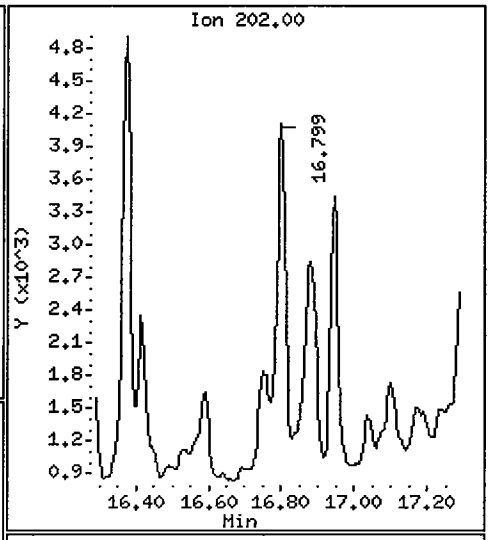
Column phase: Rtx-5MS

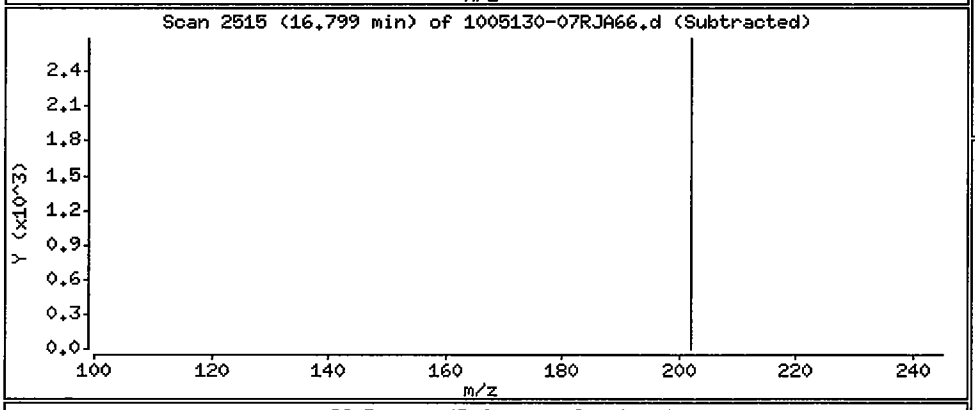
Column diameter: 0.32

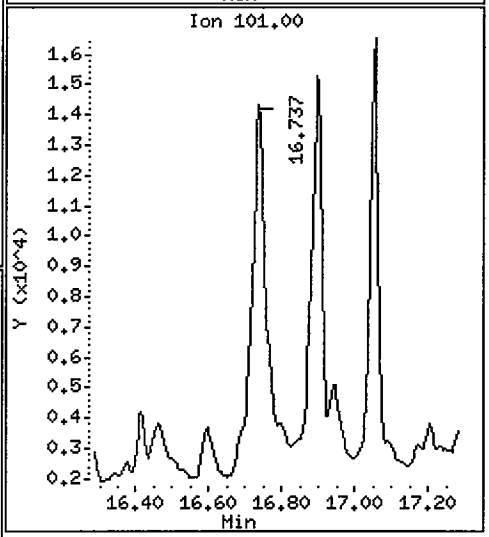
28 Pyrene

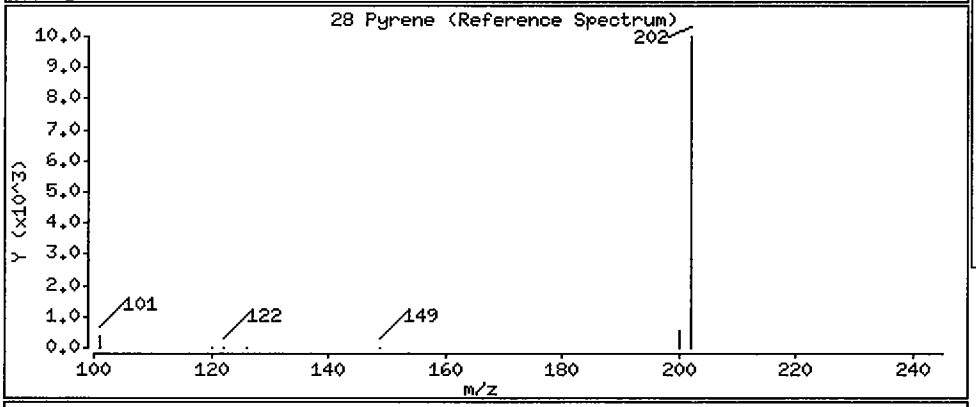
Concentration: 2.8 ug/Kg

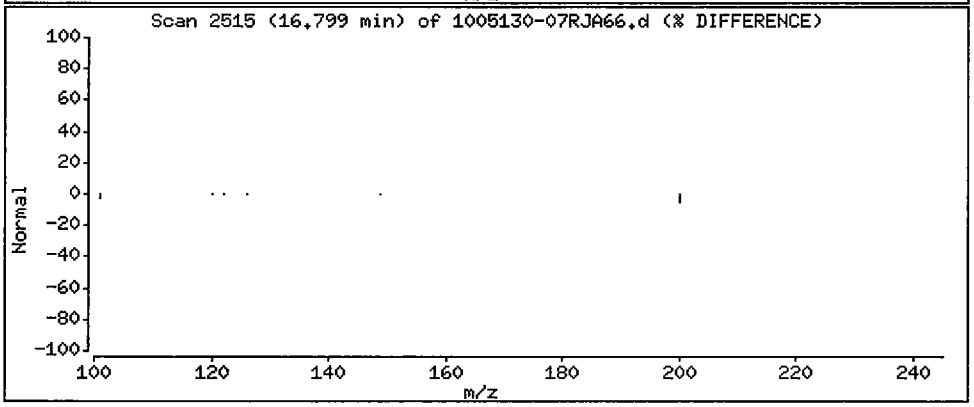












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

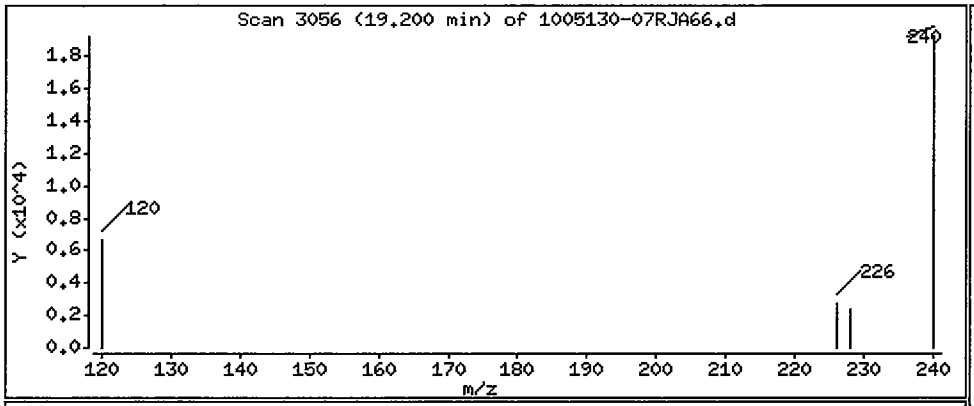
Operator: MEW

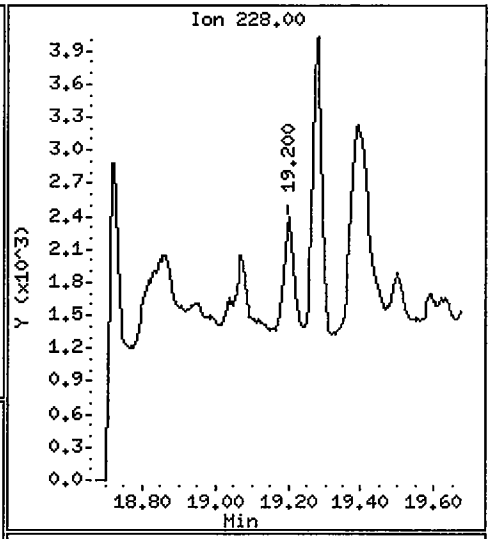
Column phase: Rtx-5MS

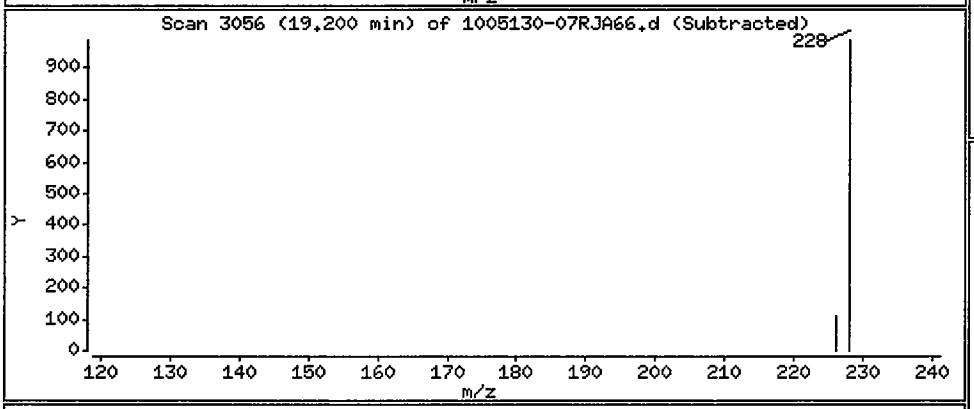
Column diameter: 0.32

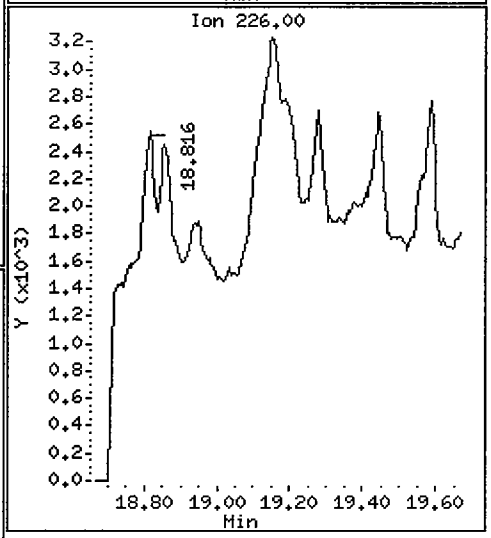
29 Benzo(a)anthracene

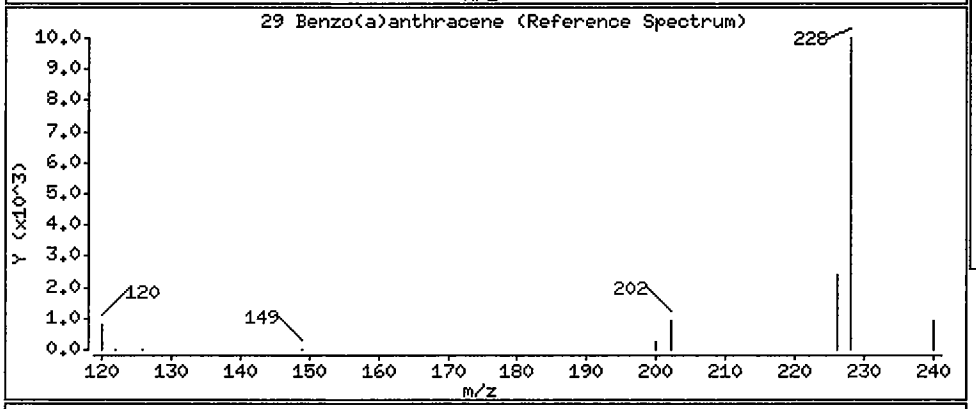
Concentration: 1.4 ug/Kg

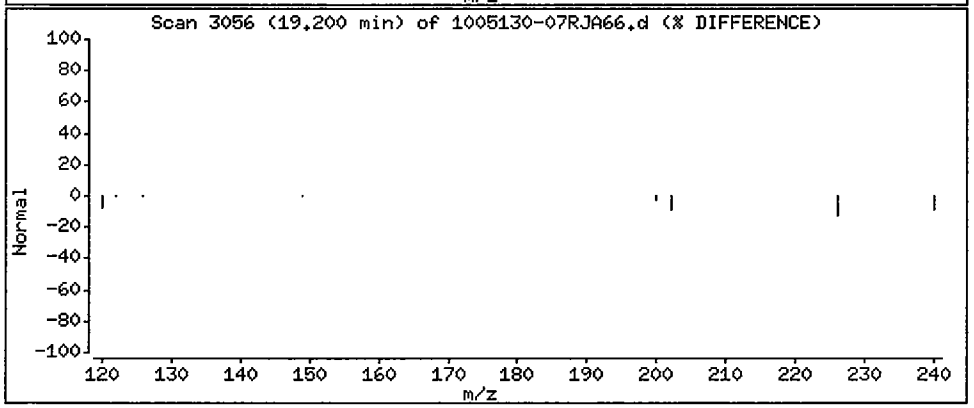












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

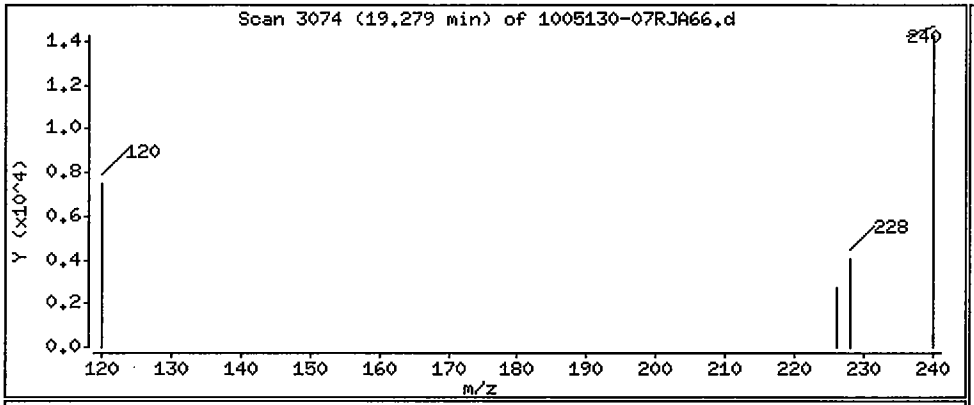
Operator: MEW

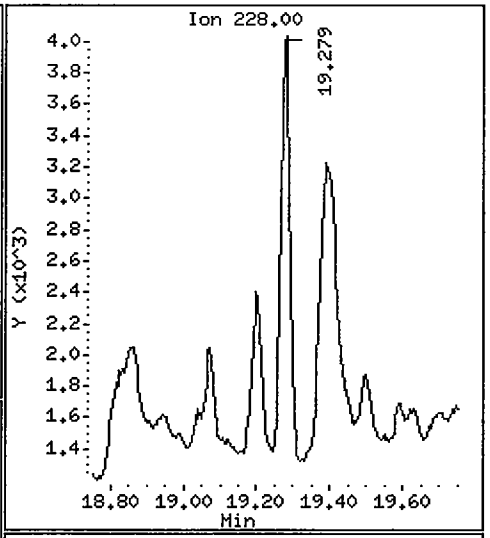
Column phase: Rtx-5MS

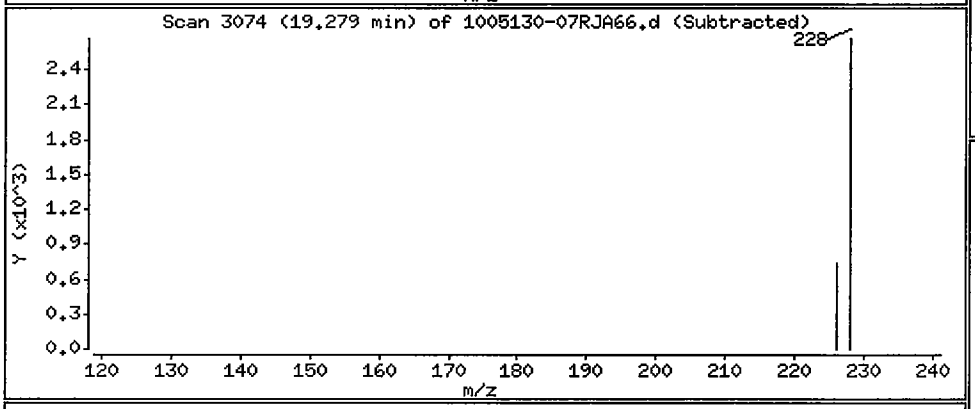
Column diameter: 0.32

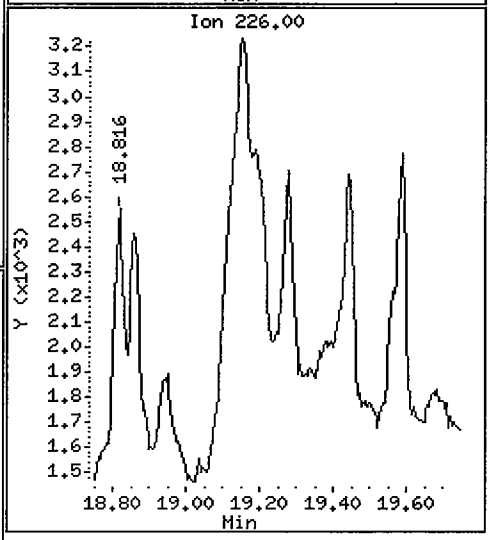
30 Chrysene

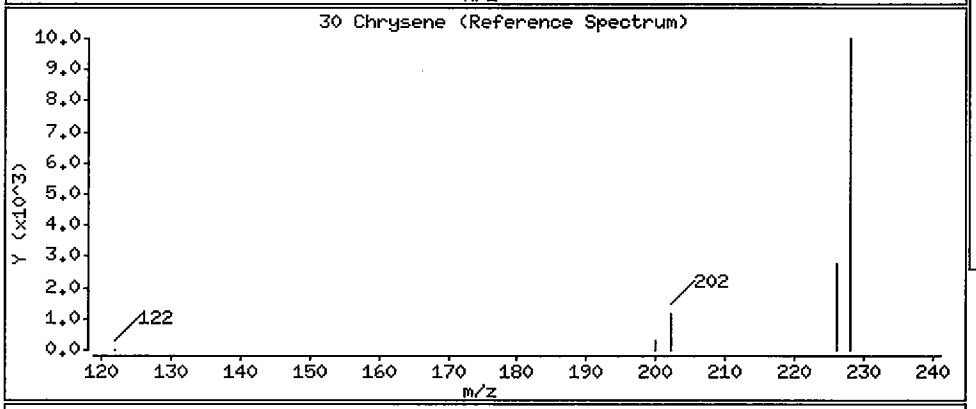
Concentration: 3.2 ug/Kg

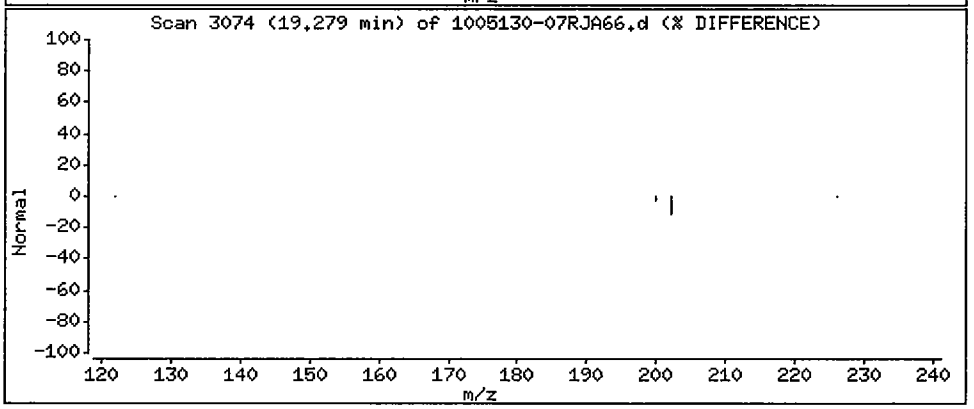












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

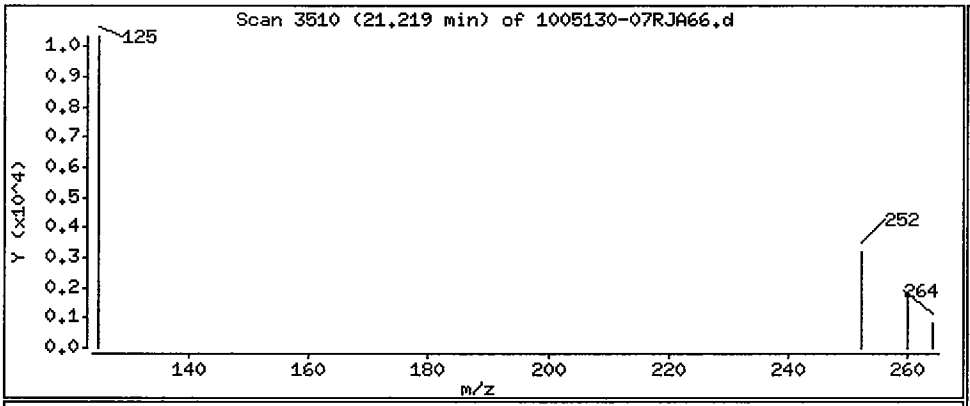
Operator: MEW

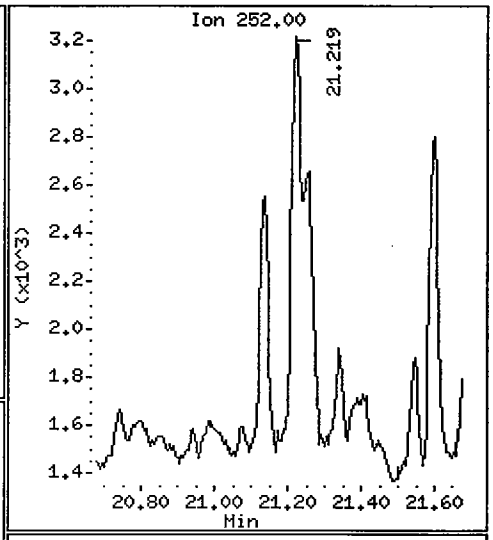
Column phase: Rtx-5MS

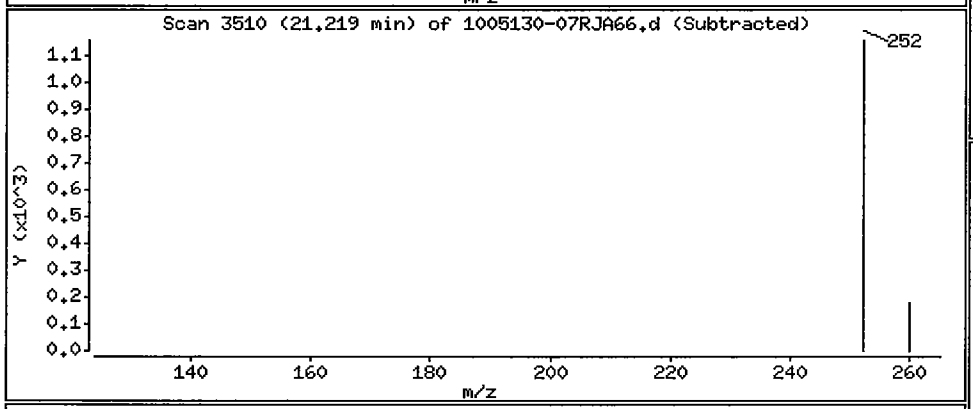
Column diameter: 0.32

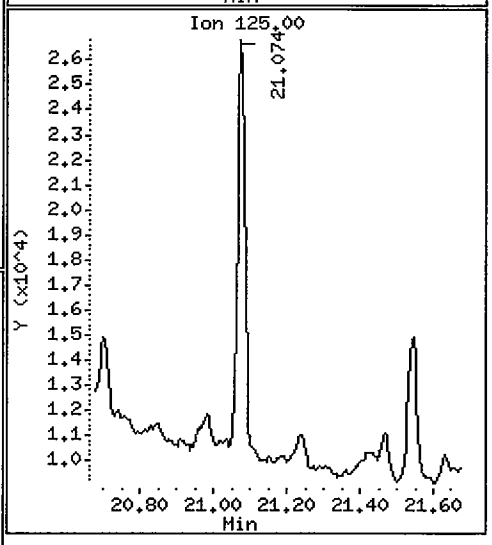
31 Benzo(b)fluoranthene

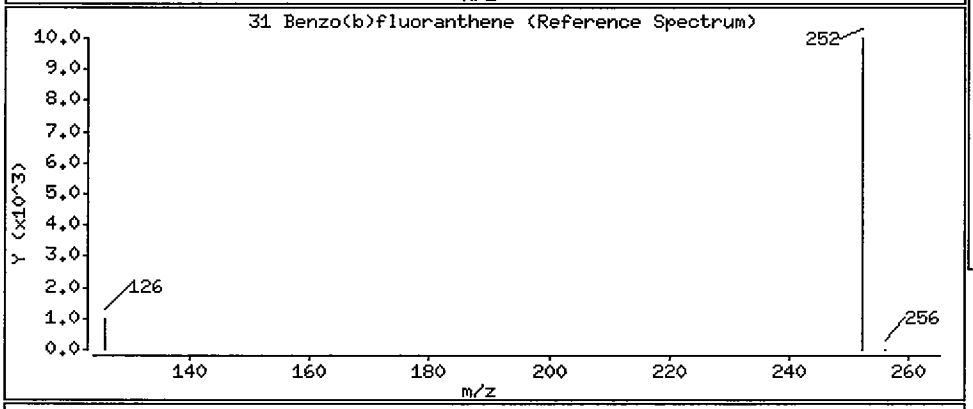
Concentration: 2.1 ug/Kg

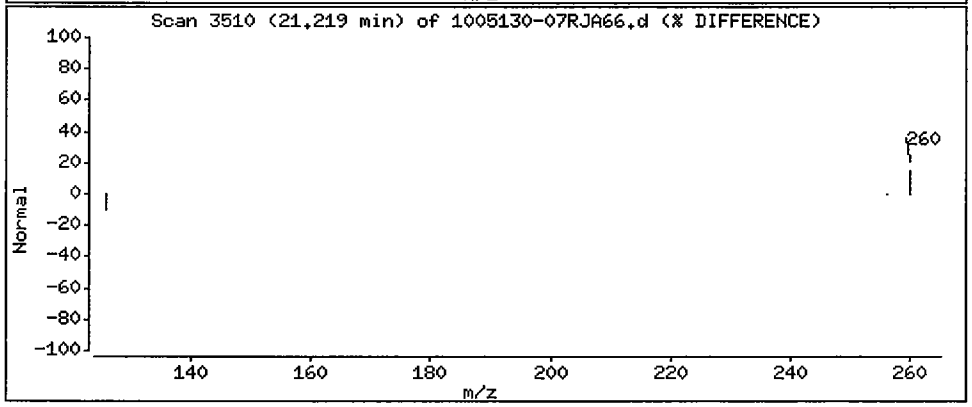












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

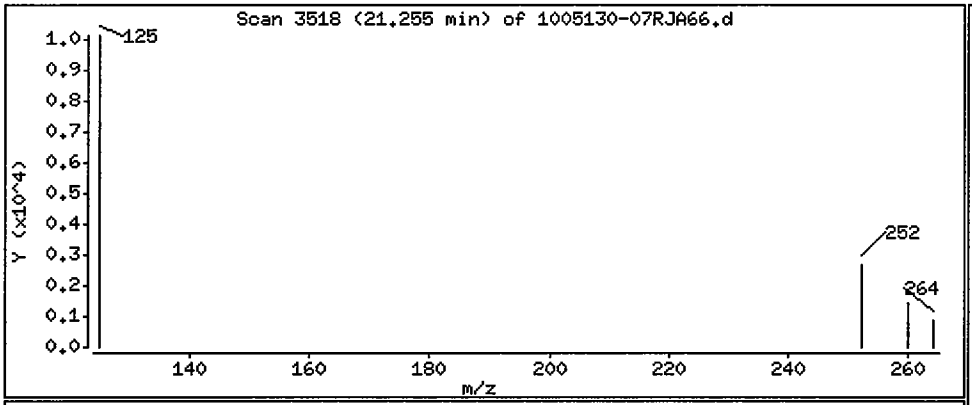
Operator: MEW

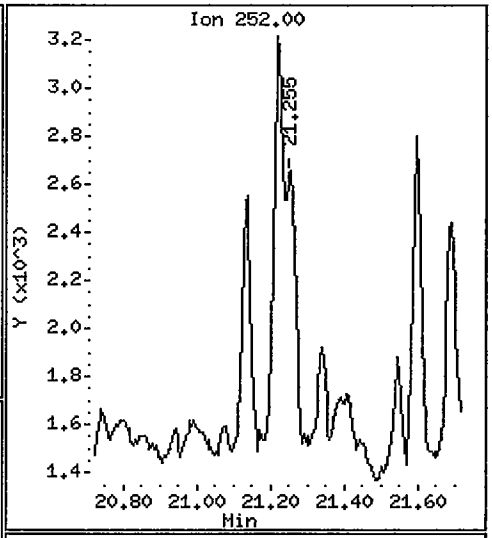
Column phase: Rtx-5MS

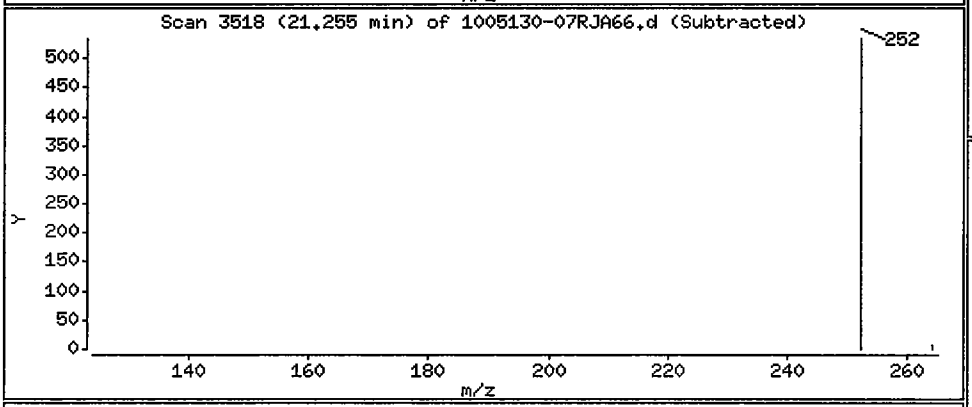
Column diameter: 0.32

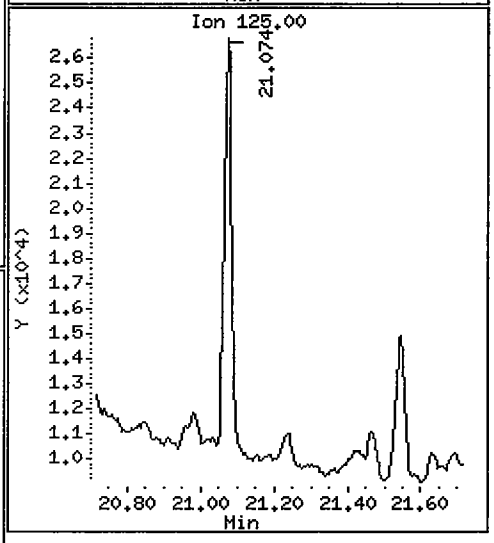
32 Benzo(k)fluoranthene

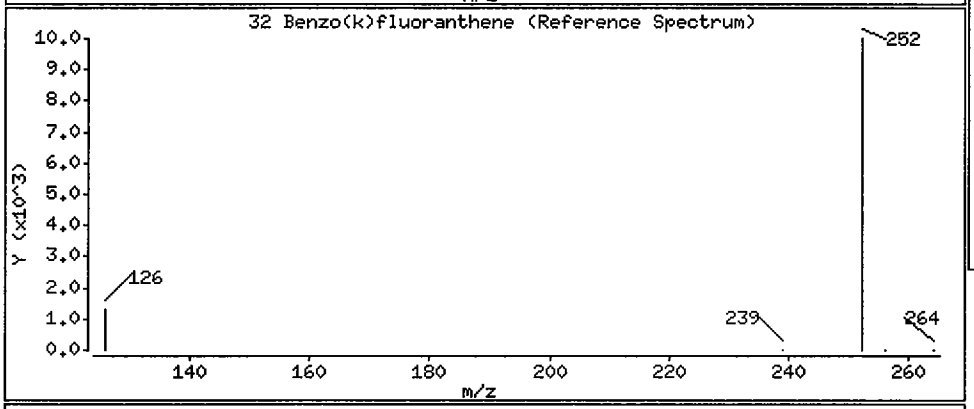
Concentration: 1.6 ug/Kg

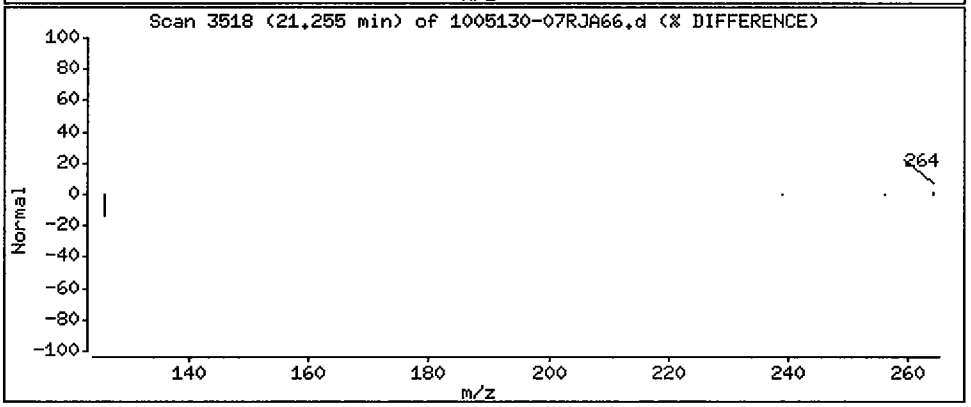












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

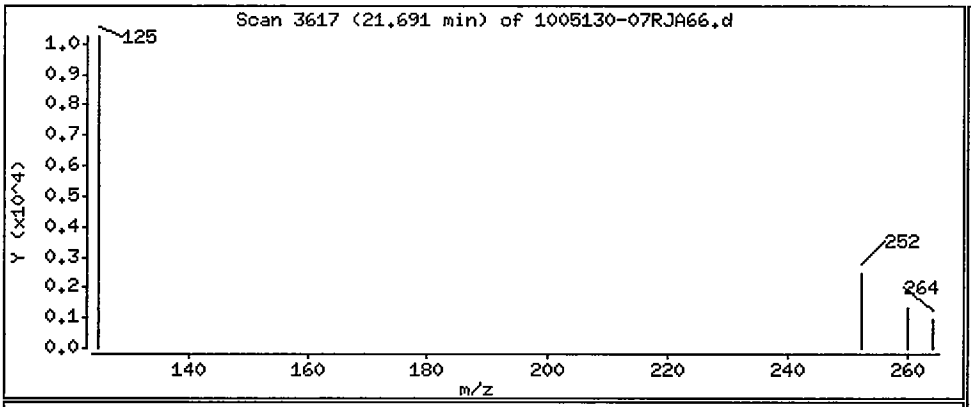
Operator: MEW

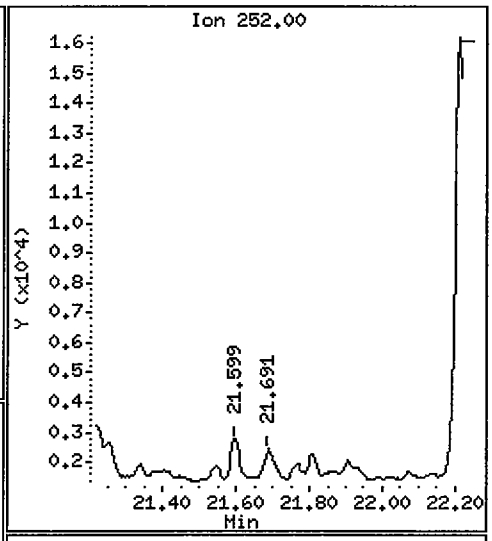
Column phase: Rtx-5MS

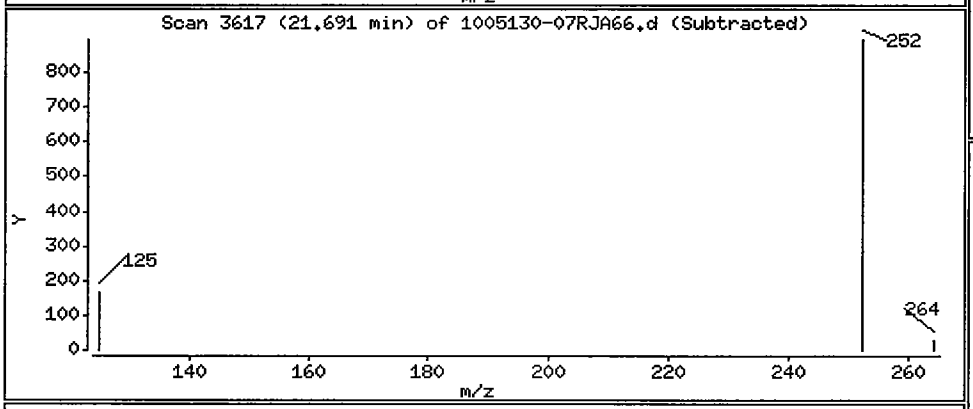
Column diameter: 0.32

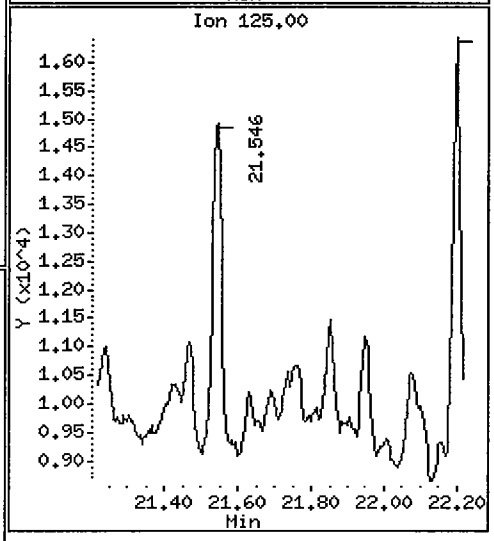
33 Benzo(a)pyrene

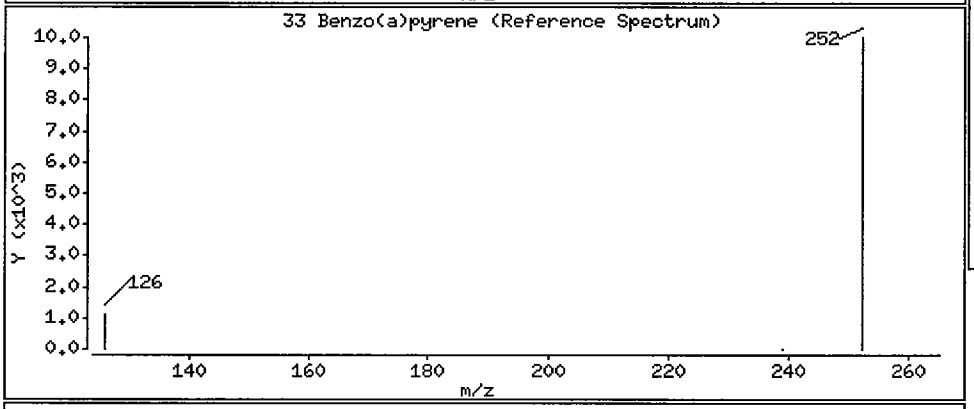
Concentration: 1.5 ug/Kg

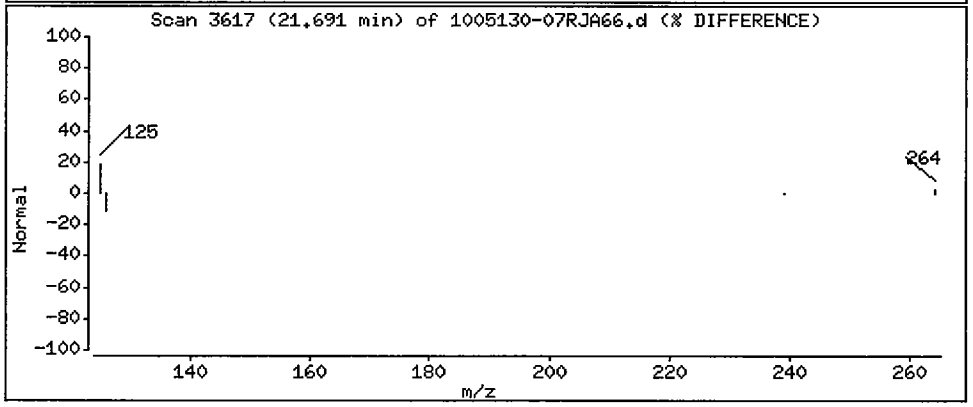












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

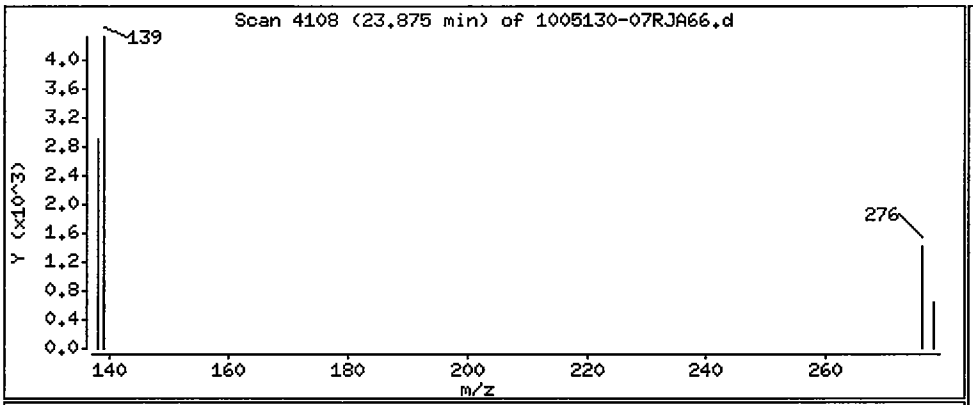
Operator: MEW

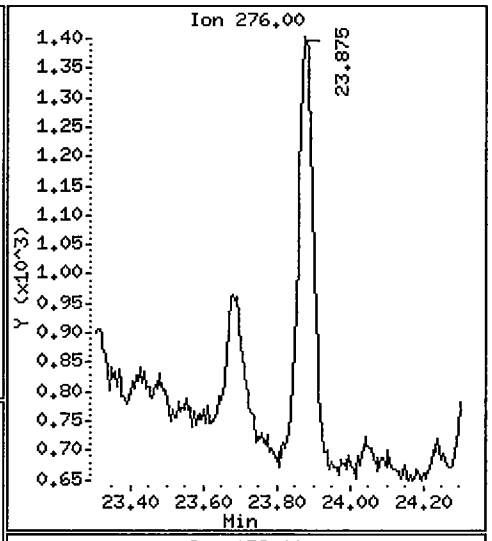
Column phase: Rtx-5MS

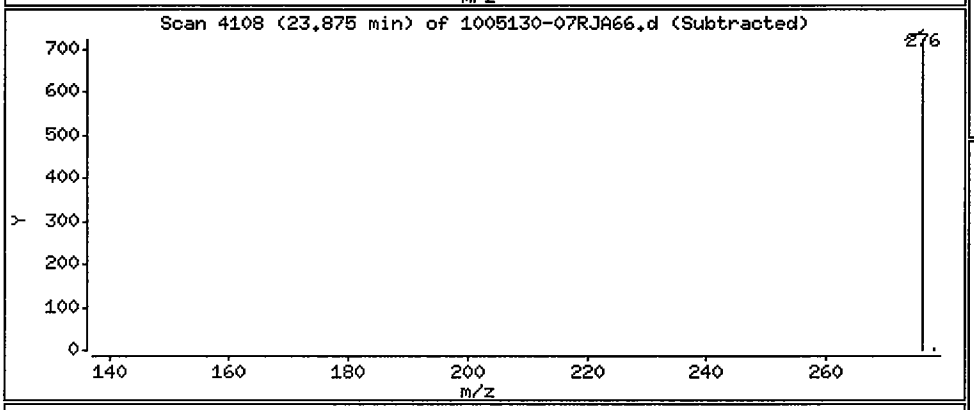
Column diameter: 0.32

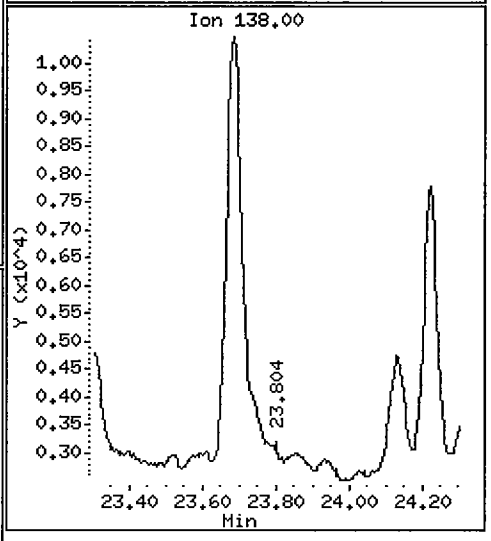
34 Indeno(1,2,3-cd)pyrene

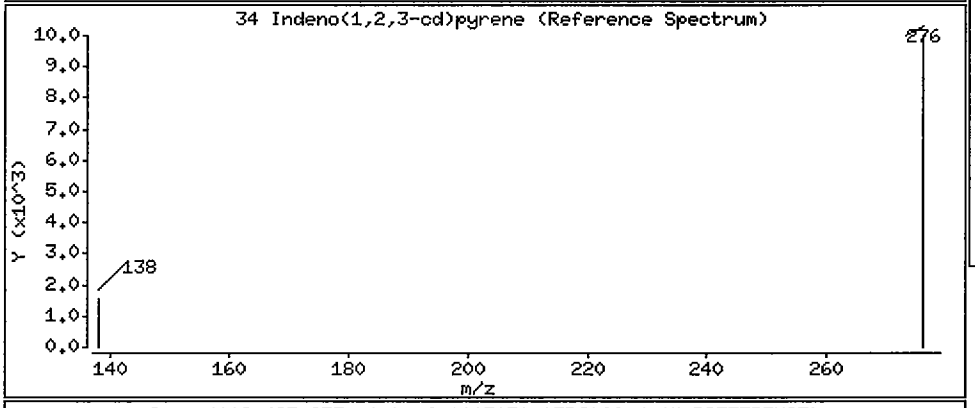
Concentration: 2.0 ug/Kg

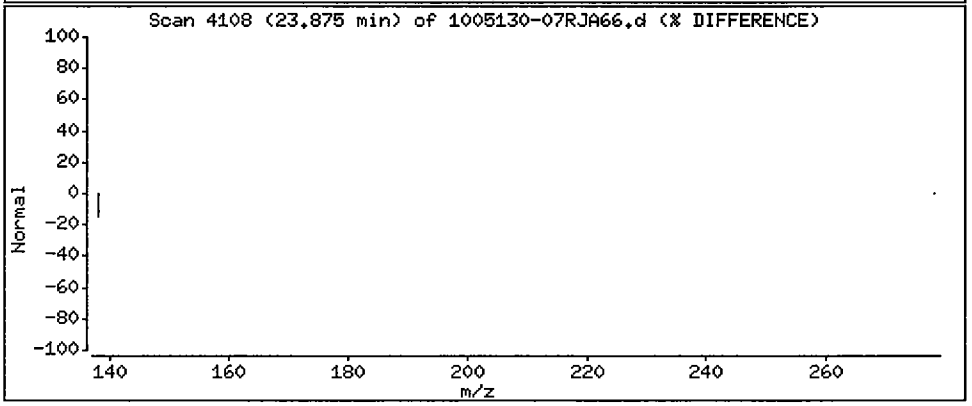












Data File: /chem/5972hp66.i/DT100624A66.b/1005130-07RJA66.d

Date : 24-JUN-2010 18:06

Client ID: SS50-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005130-07RE1:MEW

Volume Injected (uL): 2.0

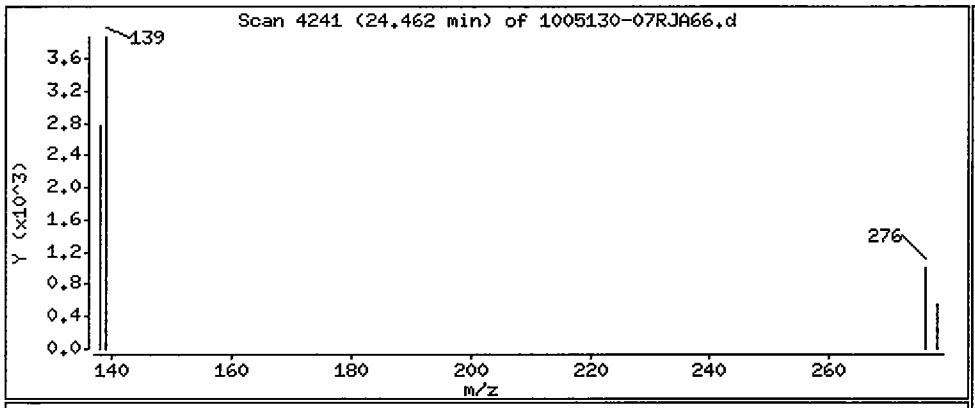
Operator: MEW

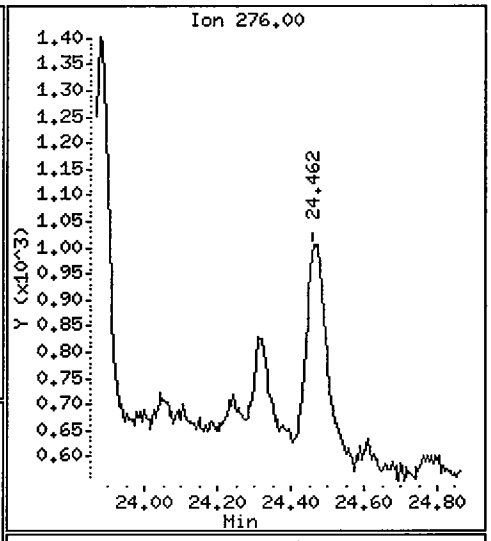
Column phase: Rtx-5MS

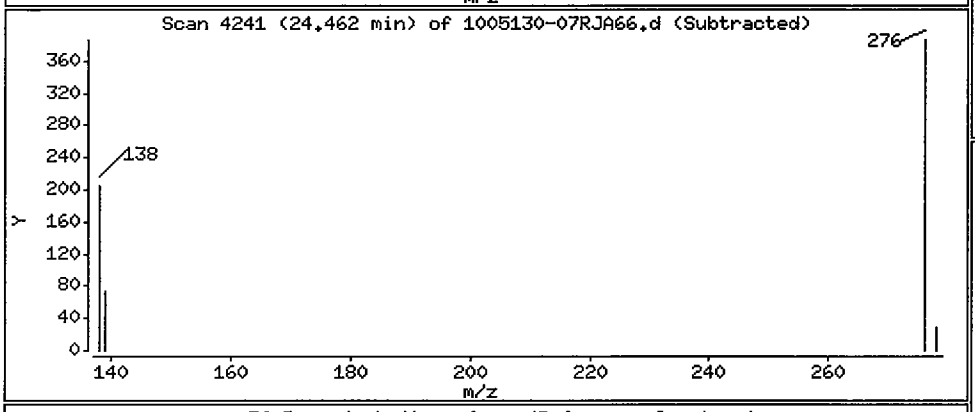
Column diameter: 0.32

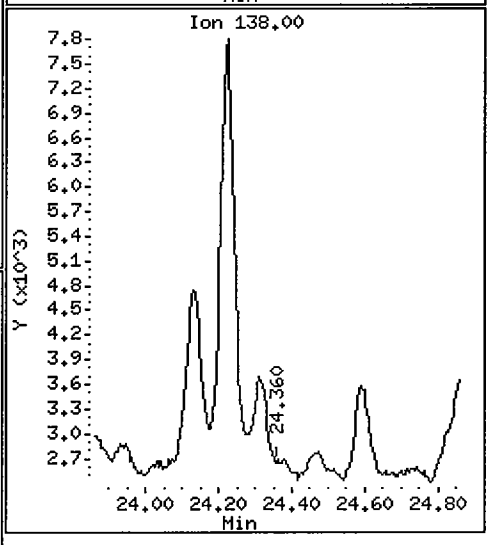
36 Benzo(g,h,i)perylene

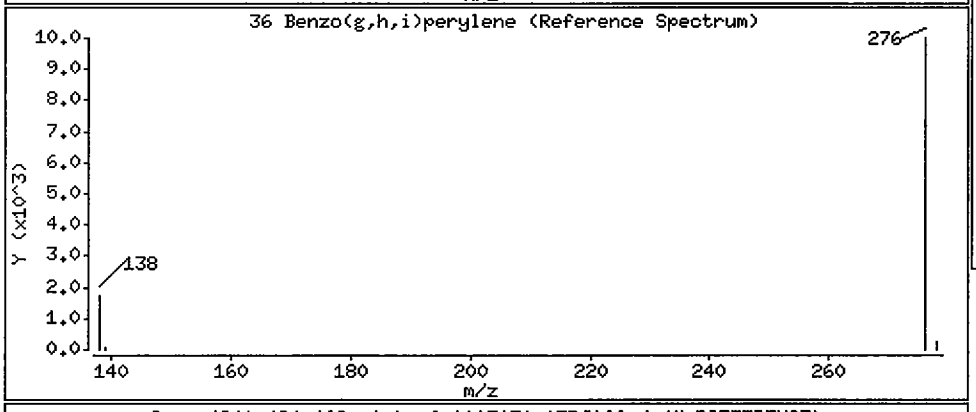
Concentration: 1.3 ug/Kg

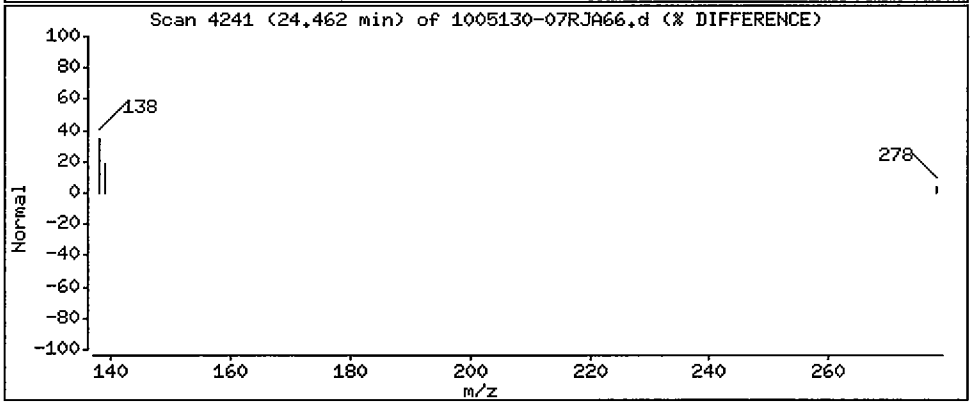












3. Standards Data

a. Initial Calibration Data (Form VI SV)

b. Continuing Calibration Data (Form VII SV)

a. Initial Calibration Data (Form VI SV)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Within each initial calibration, the standards are in order by level, from lowest to highest.

(1) Chromatograms and quantitation reports for the initial (five-point) calibration.
Spectra not required.

(2) EICPs displaying each manual integration.

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: 5972HP66 Calibration Date(s): 05/25/10 05/25/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0601 0816

LAB FILE ID: RF0.4: 0E25001-CALRF1.2: 0E25001-CALRF3: 0E25001-CAL3C
RF5: 0E25001-CAL4CRF10: 0E25001-CAL5

COMPOUND	RF0.4	RF1.2	RF3	RF5	RF10
Naphthalene	1.336	1.232	1.203	1.227	1.187
2-Methylnaphthalene	1.514	1.368	1.333	1.434	1.510
Acenaphthylene	2.329	2.103	2.170	2.345	2.222
Acenaphthene	1.345	1.283	1.276	1.362	1.278
Fluorene	0.920	0.852	0.902	0.929	1.076
Phenanthrene	1.257	1.224	1.234	1.266	1.254
Anthracene	1.113	1.079	1.108	1.166	1.143
Fluoranthene	1.259	1.240	1.322	1.342	1.468
Pyrene	1.382	1.385	1.435	1.451	1.568
Benzo(a)anthracene	1.047	1.069	1.114	1.124	1.082
Chrysene	1.184	1.172	1.171	1.195	1.165
Benzo(b)fluoranthene	1.264	1.307	1.309	1.344	1.370
Benzo(k)fluoranthene	1.426	1.364	1.448	1.422	1.437
Benzo(a)pyrene	1.103	1.133	1.223	1.243	1.242
Indeno(1,2,3-cd)pyrene	0.982	1.023	1.058	1.106	1.074
Dibenzo(a,h)anthracene	0.975	1.031	1.043	1.076	1.062
Benzo(g,h,i)perylene	1.145	1.149	1.170	1.165	1.183
Nitrobenzene-d5	0.425	0.446	0.430	0.469	0.455
2-Fluorobiphenyl	1.885	2.209	2.161	1.791	2.388
Terphenyl-d14	0.709	0.705	0.741	0.724	0.755

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: 5972HP66 Calibration Date(s): 05/25/10 05/25/10

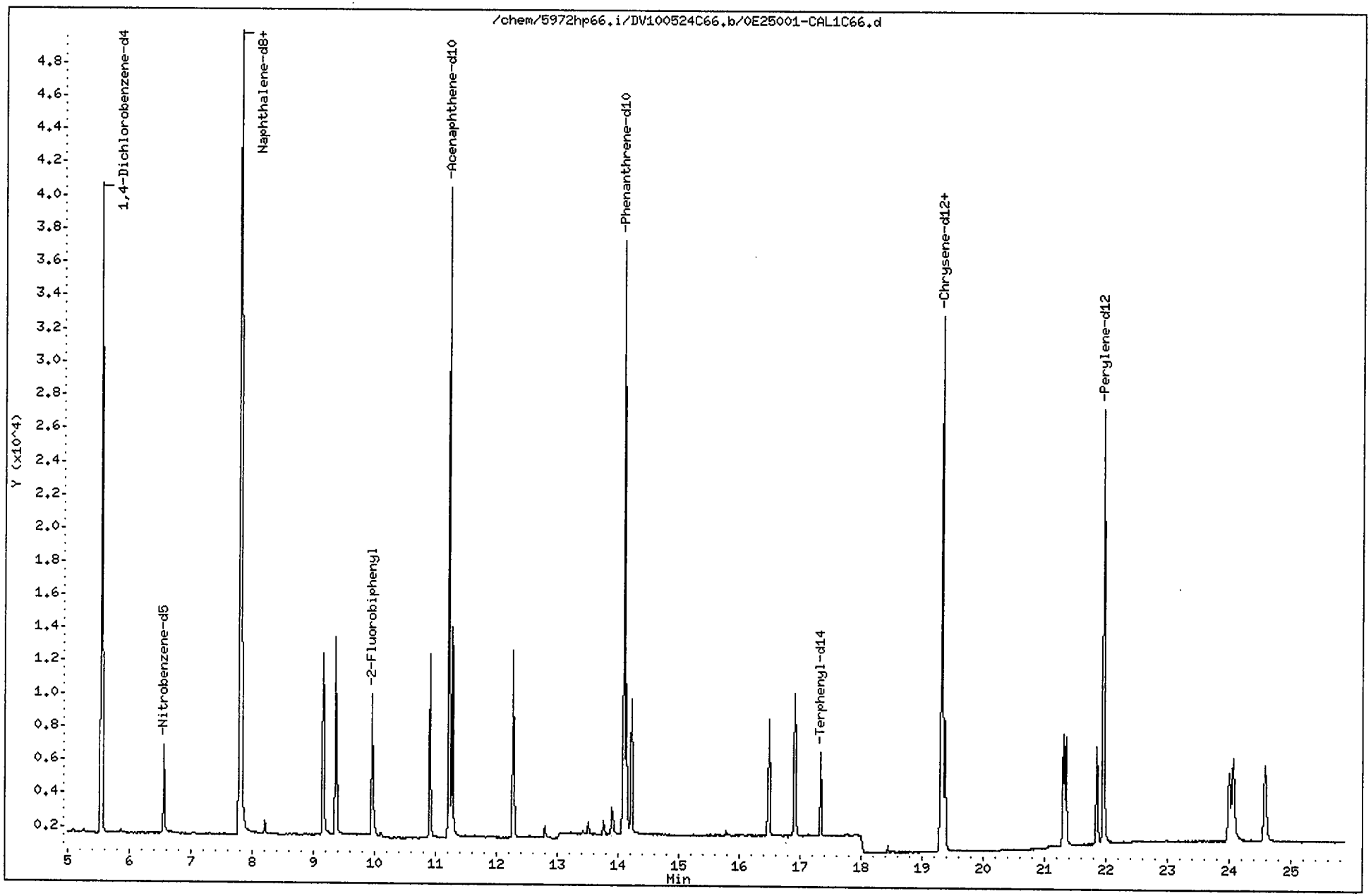
Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0601 0816

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	AVRG	1.23709039	4.686	15.000
2-Methylnaphthalene	AVRG	1.43192718	5.709	15.000
Acenaphthylene	AVRG	2.23404611	4.628	15.000
Acenaphthene	AVRG	1.30892901	3.163	30.000
Fluorene	AVRG	0.93602321	8.970	15.000
Phenanthrene	AVRG	1.24712484	1.393	15.000
Anthracene	AVRG	1.12176747	3.022	15.000
Fluoranthene	AVRG	1.32618091	6.795	30.000
Pyrene	AVRG	1.44424098	5.249	15.000
Benzo(a)anthracene	AVRG	1.08720605	2.923	15.000
Chrysene	AVRG	1.17758875	1.029	15.000
Benzo(b)fluoranthene	AVRG	1.31897490	3.040	15.000
Benzo(k)fluoranthene	AVRG	1.41939457	2.307	15.000
Benzo(a)pyrene	AVRG	1.18861343	5.540	30.000
Indeno(1,2,3-cd)pyrene	AVRG	1.04861310	4.548	15.000
Dibenzo(a,h)anthracene	AVRG	1.03728761	3.747	15.000
Benzo(g,h,i)perylene	AVRG	1.16224716	1.330	15.000
Nitrobenzene-d5	AVRG	0.44503818	4.056	15.000
2-Fluorobiphenyl	AVRG	2.08703947	11.716	15.000
Terphenyl-d14	AVRG	0.72668507	2.913	15.000

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Date : 25-MAY-2010 07:09
Client ID: SSTD0.40Y2
Sample Info: SSTD0.40Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i

Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Lab Smp Id: 0E25001-CAL1 Client Smp ID: SSTD0.40Y2
Inj Date : 25-MAY-2010 07:09
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD0.40Y2:2743
Misc Info : SSTD0.40Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 07:09 Cal File: 0E25001-CAL1C66.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

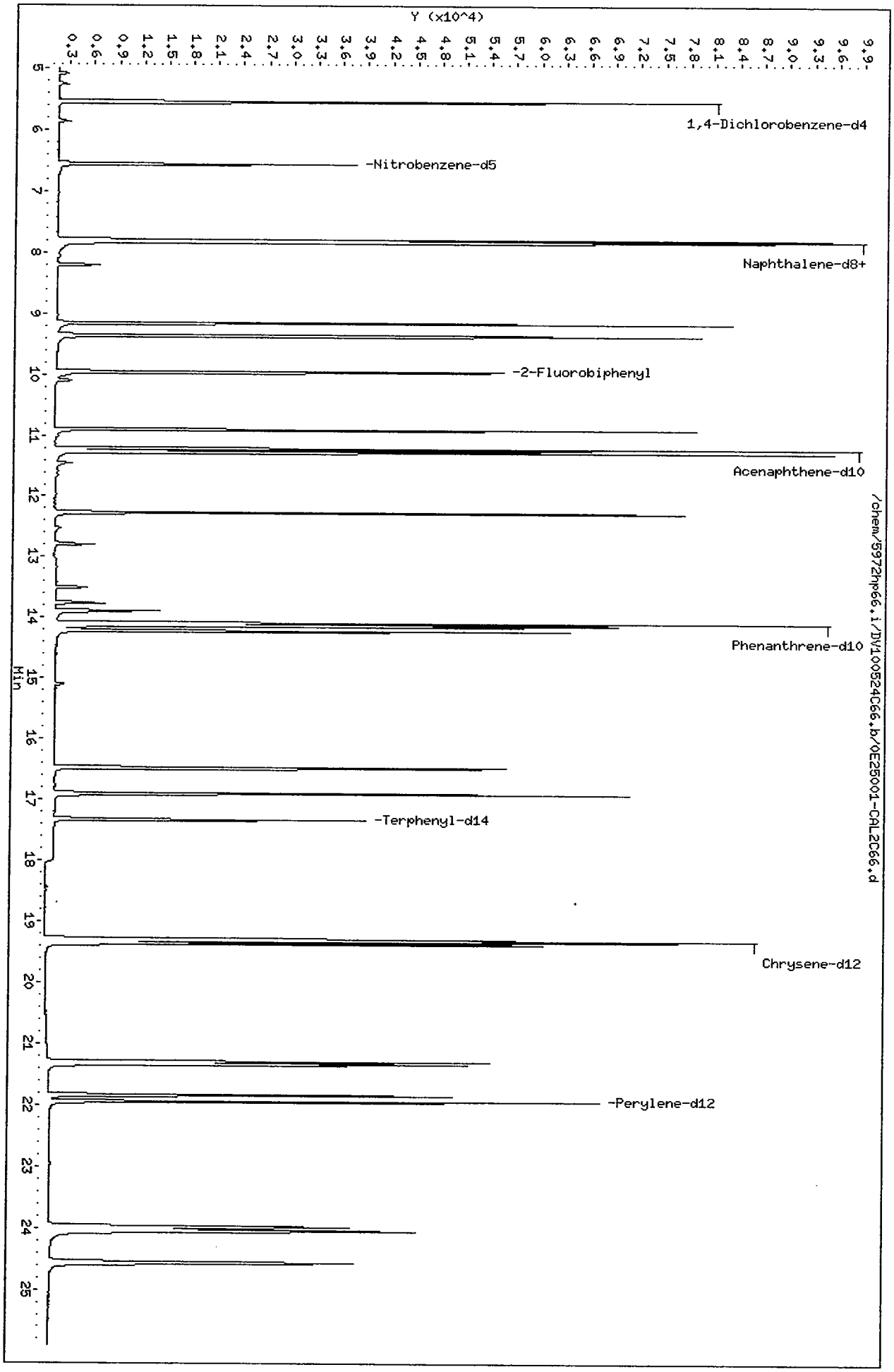
Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	21673	2.00000	
*	2 Naphthalene-d8	136	7.799	7.802	(1.000)	68713	2.00000	
*	3 Acenaphthene-d10	164	11.217	11.218	(1.000)	28135	2.00000	
*	4 Phenanthrene-d10	188	14.088	14.087	(1.000)	47752	2.00000	
*	5 Chrysene-d12	240	19.318	19.319	(1.000)	42145	2.00000	
*	6 Perylene-d12	264	21.950	21.949	(1.000)	36854	2.00000	
$	9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	5841	0.40000	0.40
$	10 2-Fluorobiphenyl	172	9.963	9.952	(0.888)	10609	0.40000	0.37
$	12 Terphenyl-d14	244	17.334	17.333	(0.897)	5977	0.40000	0.39
	13 Naphthalene	128	7.825	7.828	(1.003)	18354	0.40000	0.42
	15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	8519	0.40000	0.43
	17 Acenaphthylene	152	10.904	10.905	(0.972)	13107	0.40000	0.41
	18 Acenaphthene	154	11.269	11.270	(1.005)	7568	0.40000	0.41
	21 Fluorene	166	12.273	12.274	(0.871)	8792	0.40000	0.40
	25 Phenanthrene	178	14.127	14.126	(1.003)	12002	0.40000	0.40

TMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	10627	0.40000	0.40
27 Fluoranthene	202	16.487	16.486	(0.853)	10612	0.40000	0.39
28 Pyrene	202	16.904	16.903	(0.875)	11647	0.40000	0.39
29 Benzo(a)anthracene	228	19.292	19.293	(0.999)	8829	0.40000	0.39
30 Chrysene	228	19.370	19.371	(1.003)	9984	0.40000	0.40
31 Benzo(b)fluoranthene	252	21.297	21.296	(0.970)	9319	0.40000	0.39
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	10515	0.40000	0.40
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	8130	0.40000	0.38
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	7238	0.40000	0.39
35 Dibenzo(a,h)anthracene	278	24.061	24.061	(1.096)	7186	0.40000	0.39
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	8441	0.40000	0.40


Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Date : 25-MAY-2010 08:16
Client ID: SSTD1.20Y2
Sample Info: SSTD1.20Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^4)
1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8+
-2-Fluorobiphenyl
Acenaphthene-d10
Phenanthrene-d10
-Terphenyl-d14
Chrysene-d12
-Perylene-d12
Min
/chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Lab Smp Id: 0E25001-CAL2 Client Smp ID: SSTD1.20Y2
Inj Date : 25-MAY-2010 08:16
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD1.20Y2:2743
Misc Info : SSTD1.20Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	42756	2.00000	
* 2 Naphthalene-d8	136	7.799	7.802	(1.000)	151009	2.00000	
* 3 Acenaphthene-d10	164	11.217	11.218	(1.000)	69374	2.00000	
* 4 Phenanthrene-d10	188	14.088	14.087	(1.000)	121694	2.00000	
* 5 Chrysene-d12	240	19.318	19.319	(1.000)	108693	2.00000	
* 6 Perylene-d12	264	21.950	21.949	(1.000)	94345	2.00000	
$ 9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	40366	1.20000	1.2
$ 10 2-Fluorobiphenyl	172	9.963	9.952	(0.888)	91960	1.20000	1.3
$ 12 Terphenyl-d14	244	17.334	17.333	(0.897)	45962	1.20000	1.2
13 Naphthalene	128	7.825	7.828	(1.003)	111671	1.20000	1.2
15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	56927	1.20000	1.1
17 Acenaphthylene	152	10.904	10.905	(0.972)	87547	1.20000	1.1
18 Acenaphthene	154	11.269	11.270	(1.005)	53389	1.20000	1.2
21 Fluorene	166	12.273	12.274	(0.871)	62225	1.20000	1.1
25 Phenanthrene	178	14.127	14.126	(1.003)	89360	1.20000	1.2

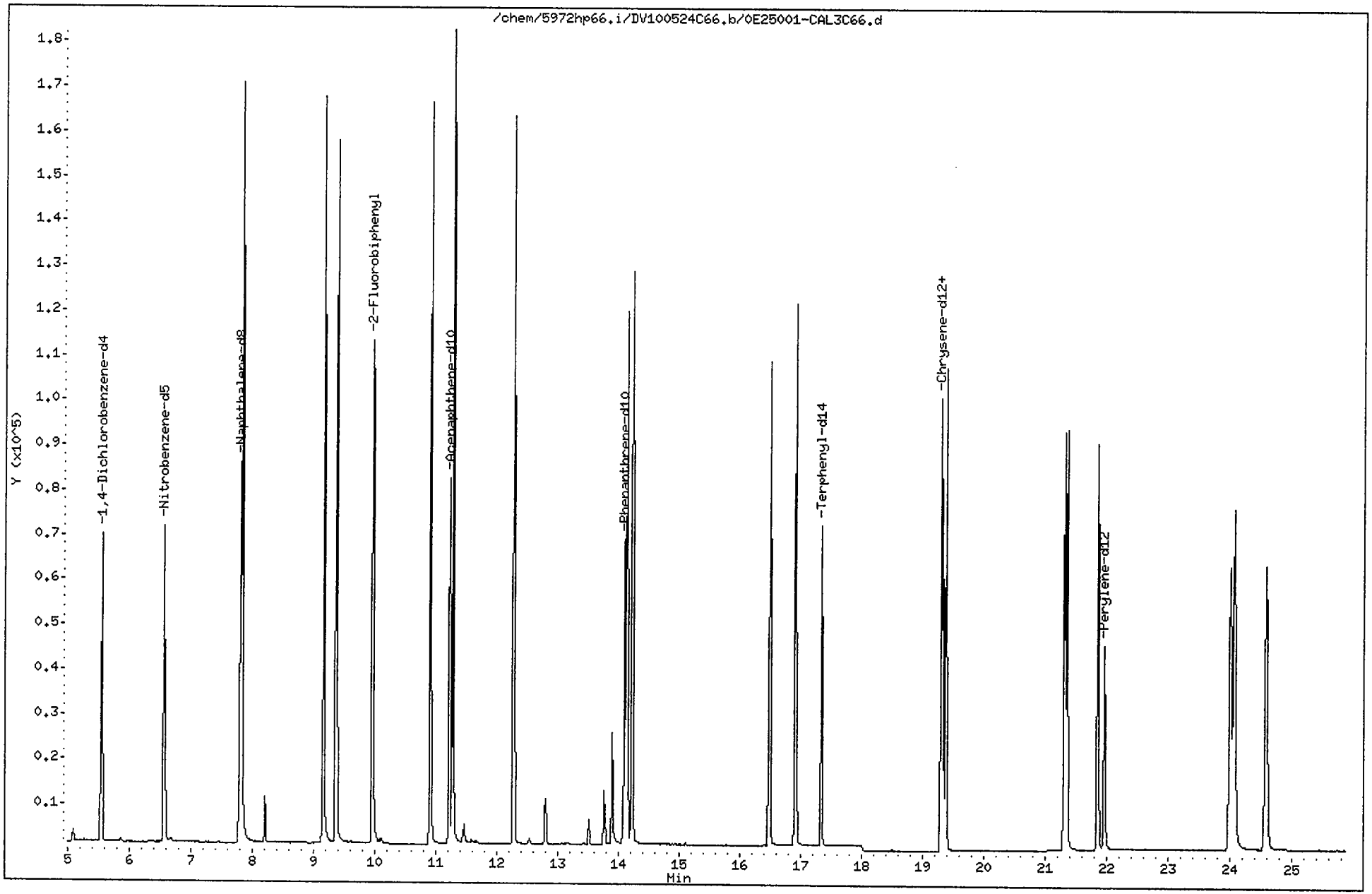
Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	78760	1.20000	1.2
27 Fluoranthene	202	16.486	16.486	(0.853)	80846	1.20000	1.1
28 Pyrene	202	16.904	16.903	(0.875)	90310	1.20000	1.2
29 Benzo(a)anthracene	228	19.291	19.293	(0.999)	69695	1.20000	1.2
30 Chrysene	228	19.370	19.371	(1.003)	76404	1.20000	1.2
31 Benzo(b)fluoranthene	252	21.296	21.296	(0.970)	74012	1.20000	1.2
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	77185	1.20000	1.2
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	64130	1.20000	1.1
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	57928	1.20000	1.2
35 Dibenzo(a,h)anthracene	278	24.050	24.061	(1.096)	58355	1.20000	1.2
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	65035	1.20000	1.2

TR 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Date : 25-MAY-2010 06:01
Client ID: SSTD3.00Y2
Sample Info: SSTD3.00Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Lab Smp Id: 0E25001-CAL3 Client Smp ID: SSTD3.00Y2
Inj Date : 25-MAY-2010 06:01
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00Y2:2743
Misc Info : SSTD3.00Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.547	5.547	(1.000)	37182	2.00000	
*	2 Naphthalene-d8	136	7.802	7.802	(1.000)	125435	2.00000	
*	3 Acenaphthene-d10	164	11.218	11.218	(1.000)	56129	2.00000	
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	92434	2.00000	
*	5 Chrysene-d12	240	19.319	19.319	(1.000)	75031	2.00000	
*	6 Perylene-d12	264	21.949	21.949	(1.000)	62246	2.00000	
$	9 Nitrobenzene-d5	82	6.563	6.563	(0.841)	80993	3.00000	2.9
$	10 2-Fluorobiphenyl	172	9.952	9.952	(0.887)	181927	3.00000	3.1
$	12 Terphenyl-d14	244	17.333	17.333	(0.897)	83431	3.00000	3.1
	13 Naphthalene	128	7.828	7.828	(1.003)	226427	3.00000	2.9
	15 2-Methylnaphthalene	141	9.157	9.157	(0.816)	112252	3.00000	2.8
	17 Acenaphthylene	152	10.905	10.905	(0.972)	182733	3.00000	2.9
	18 Acenaphthene	154	11.270	11.270	(1.005)	107472	3.00000	2.9
	21 Fluorene	166	12.274	12.274	(0.871)	125051	3.00000	2.9
	25 Phenanthrene	178	14.126	14.126	(1.003)	171164	3.00000	3.0

5/25/10

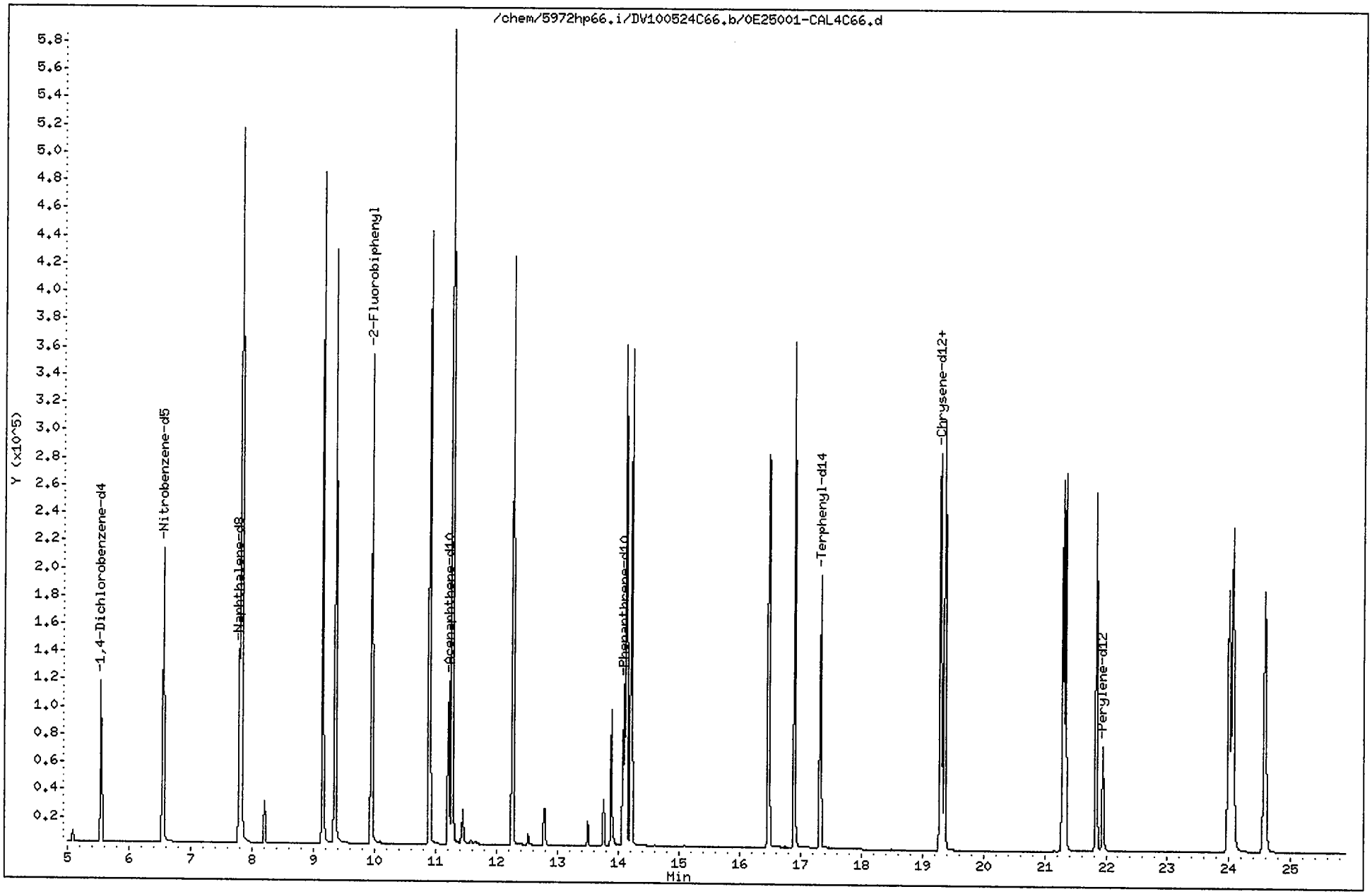
Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.217	14.217	(1.009)	153579	3.00000	3.0
27 Fluoranthene	202	16.486	16.486	(0.853)	148807	3.00000	3.0
28 Pyrene	202	16.903	16.903	(0.875)	161512	3.00000	3.0
29 Benzo(a)anthracene	228	19.293	19.293	(0.999)	125381	3.00000	3.1
30 Chrysene	228	19.371	19.371	(1.003)	131836	3.00000	3.0
31 Benzo(b)fluoranthene	252	21.296	21.296	(0.970)	122234	3.00000	3.0
32 Benzo(k)fluoranthene	252	21.339	21.339	(0.972)	135163	3.00000	3.1
33 Benzo(a)pyrene	252	21.840	21.840	(0.995)	114164	3.00000	3.1
34 Indeno(1,2,3-cd)pyrene	276	23.995	23.995	(1.093)	98749	3.00000	3.0
35 Dibenzo(a,h)anthracene	278	24.061	24.061	(1.096)	97384	3.00000	3.0
36 Benzo(g,h,i)perylene	276	24.572	24.572	(1.119)	109200	3.00000	3.0

DMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Date : 25-MAY-2010 07:43
Client ID: SSTD5.00Y2
Sample Info: SSTD5.00Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Lab Smp Id: 0E25001-CAL4 Client Smp ID: SSTD5.00Y2
Inj Date : 25-MAY-2010 07:43
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD5.00Y2:2743
Misc Info : SSTD5.00Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 07:43 Cal File: 0E25001-CAL4C66.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.543	5.547	(1.000)	63425	2.00000	
*	2 Naphthalene-d8	136	7.785	7.802	(1.000)	216429	2.00000	
*	3 Acenaphthene-d10	164	11.218	11.218	(1.000)	91925	2.00000	
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	154139	2.00000	
*	5 Chrysene-d12	240	19.318	19.319	(1.000)	128222	2.00000	
*	6 Perylene-d12	264	21.951	21.949	(1.000)	108520	2.00000	
$	9 Nitrobenzene-d5	82	6.547	6.563	(0.841)	254021	5.00000	5.3
$	10 2-Fluorobiphenyl	172	9.949	9.952	(0.887)	411699	5.00000	4.4
$	12 Terphenyl-d14	244	17.333	17.333	(0.897)	231964	5.00000	4.9
	13 Naphthalene	128	7.824	7.828	(1.005)	663758	5.00000	5.0
	15 2-Methylnaphthalene	141	9.154	9.157	(0.816)	329678	5.00000	5.0
	17 Acenaphthylene	152	10.905	10.905	(0.972)	538984	5.00000	5.2
	18 Acenaphthene	154	11.270	11.270	(1.005)	313112	5.00000	5.2
	21 Fluorene	166	12.274	12.274	(0.871)	357974	5.00000	4.9
	25 Phenanthrene	178	14.126	14.126	(1.003)	487877	5.00000	5.1

TM 5/25/10

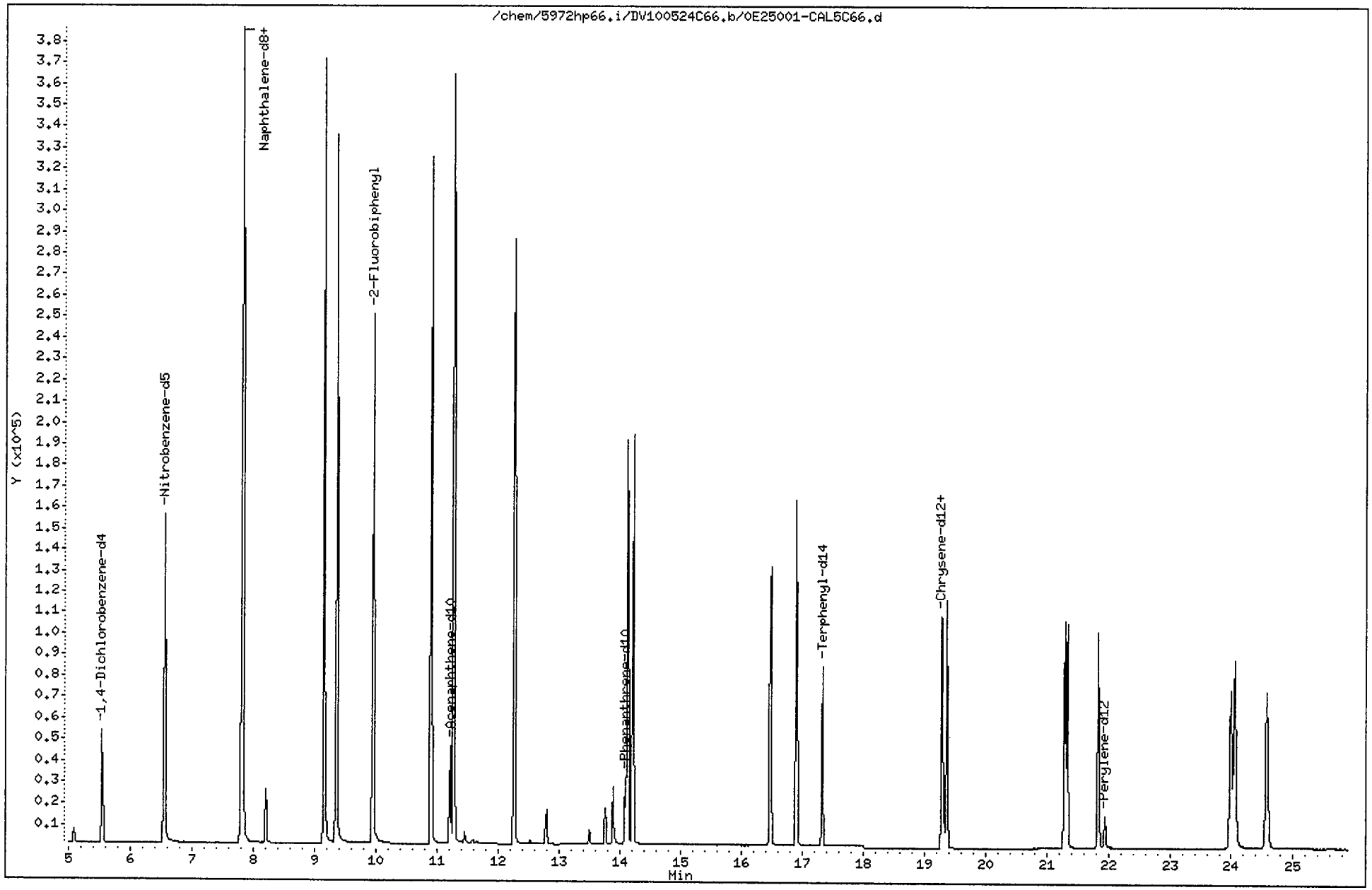
Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.217	14.217	(1.009)	449448	5.00000	5.1
27 Fluoranthene	202	16.486	16.486	(0.853)	430074	5.00000	5.0
28 Pyrene	202	16.903	16.903	(0.875)	465169	5.00000	5.0
29 Benzo(a)anthracene	228	19.292	19.293	(0.999)	360361	5.00000	5.1
30 Chrysene	228	19.371	19.371	(1.003)	383149	5.00000	5.1
31 Benzo(b)fluoranthene	252	21.298	21.296	(0.970)	364676	5.00000	5.1
32 Benzo(k)fluoranthene	252	21.341	21.339	(0.972)	385853	5.00000	5.0
33 Benzo(a)pyrene	252	21.842	21.840	(0.995)	337158	5.00000	5.2
34 Indeno(1,2,3-cd)pyrene	276	23.997	23.995	(1.093)	300043	5.00000	5.2
35 Dibenzo(a,h)anthracene	278	24.063	24.061	(1.096)	291827	5.00000	5.2
36 Benzo(g,h,i)perylene	276	24.574	24.572	(1.119)	315969	5.00000	5.0

DAP
5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Date : 25-MAY-2010 06:35
Client ID: SSTD10.0Y2
Sample Info: SSTD10.0Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Lab Smp Id: 0E25001-CAL5 Client Smp ID: SSTD10.0Y2
Inj Date : 25-MAY-2010 06:35
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD10.0Y2:2743
Misc Info : SSTD10.0Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 06:35 Cal File: 0E25001-CAL5C66.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	29337	2.00000	
* 2 Naphthalene-d8	136	7.799	7.802	(1.000)	86160	2.00000	
* 3 Acenaphthene-d10	164	11.217	11.218	(1.000)	32564	2.00000	
* 4 Phenanthrene-d10	188	14.087	14.087	(1.000)	41430	2.00000	
* 5 Chrysene-d12	240	19.319	19.319	(1.000)	26559	2.00000	
* 6 Perylene-d12	264	21.950	21.949	(1.000)	21293	2.00000	
$ 9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	195887	10.0000	10(A)
$ 10 2-Fluorobiphenyl	172	9.950	9.952	(0.887)	388859	10.0000	11(A)
$ 12 Terphenyl-d14	244	17.334	17.333	(0.897)	100210	10.0000	10(A)
13 Naphthalene	128	7.825	7.828	(1.003)	511461	10.0000	9.6
15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	245895	10.0000	10(A)
17 Acenaphthylene	152	10.904	10.905	(0.972)	361779	10.0000	9.9
18 Acenaphthene	154	11.269	11.270	(1.005)	208101	10.0000	9.8
21 Fluorene	166	12.272	12.274	(0.871)	222986	10.0000	11(A)
25 Phenanthrene	178	14.126	14.126	(1.003)	259875	10.0000	10(A)

DAP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	236864	10.0000	10(A)
27 Fluoranthene	202	16.486	16.486	(0.853)	194996	10.0000	11(A)
28 Pyrene	202	16.904	16.903	(0.875)	208279	10.0000	11(A)
29 Benzo(a)anthracene	228	19.293	19.293	(0.999)	143641	10.0000	10(A)
30 Chrysene	228	19.371	19.371	(1.003)	154738	10.0000	9.9
31 Benzo(b)fluoranthene	252	21.297	21.296	(0.970)	145830	10.0000	10(A)
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	152992	10.0000	10
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	132196	10.0000	10(A)
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	114361	10.0000	10(A)
35 Dibenzo(a,h)anthracene	278	24.050	24.061	(1.096)	113061	10.0000	10(A)
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	125942	10.0000	10(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TM 5/25/10

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/25/10 INITIAL TIME OF TUNE 0559 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1759
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAHSIM DOD SIM: (Y/N)
PREVENTIVE MAINTENANCE Front/Liner/Septa

	SEQUENCE#	REJECTED	FILENAME	REQUESTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OE25001		ASCANC66	/	5/25/10	0527	SSTD3.00	—	2µl	2743	SCD=LCD
2	DV100525C		N/A	/		0559	FC43	—	N/A		
3			OE25001-CAL3C66	/		0601	SSTD3.00Y2	—	2µl		OE18007 8/18/10
4			-CAL5C66	/		0635	10.0Y2	—			10
5			-CAL1C66	/		0709	0.40Y2	—			05
6			-CAL4C66	/		0743	5.00Y2	—			09
7			-CAL2C66	/		0816	1.20Y2	—			06
8			1005131-02JC66	/		0856	EB051310-SB	1005131			
9		/	03JC66	IL		0930	BBG-FB051310				
10			03J2C66	/		1013		VARIOUS 1005131			TMP 5/25/10
11			0052402-BLKICC66	/		1046	SBLKCB				
12		/	BS1C66	SFV SL		1120	SCBLCS	VARIOUS			
13			BSD1C66	/		1155	SCBLCSD	VARIOUS			
14		/	1005131-04C66	1H		1228	BBG-FB051810	1005131			
15			1005131-05C66	/		1302	EB051810-SS	1005131			
16		/	1005158-01C66	1H		1336	AOC8-MW-35	1005158			
17		/	02C66	1H		1410	AOC8-MW-35D				JS
18		/	01JCC6	1H		1445	AOC8-MW-35				
19			02JCC6	/		1518	AOC8-MW-~~36~~35D				
20		/	03 CC6	1H		1552	Used 8-25-10 ~~ERO51910~~ AOC8-MW-36				
21		/	04 CC6	1H		1626	ERO51910				
22		/	05CC6	1H		1700	AOC8-MW-37				
23			0052402BS1JCC6	/		1734	SCBLCS	Various			
24			1005131-04JCC6	/		1808	BBG-FB051810	1005131			

OW 5-25-10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: See Comments
Internal STD Lot#/Exp. Date: 040 OE18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/15
Column Type: RTX-5MS 0.32m

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TMP DATE 5/25/10
Supervisor/Manager Review: TMP pages 3060 to 3080 Date 5/25/10

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: 5972HP66 Calibration Date(s): 06/20/10 06/20/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0850 1107

LAB FILE ID: RF0.4: 0F20001-CALRF1.2: 0F20001-CALRF3: 0F20001-CAL3A
RF5: 0F20001-CAL4ARF10: 0F20001-CAL5

COMPOUND	RF0.4	RF1.2	RF3	RF5	RF10
Naphthalene	1.172	1.248	1.114	1.117	1.186
2-Methylnaphthalene	0.604	0.659	0.593	0.596	0.632
Acenaphthylene	2.024	2.168	1.983	1.966	2.160
Acenaphthene	1.130	0.928	1.109	1.087	1.187
Fluorene	1.378	1.435	1.357	1.338	1.461
Phenanthrene	1.104	1.172	1.044	1.024	1.124
Anthracene	1.001	1.068	0.978	0.947	1.069
Fluoranthene	1.081	1.064	1.025	0.991	1.046
Pyrene	1.531	1.085	1.246	1.014	1.201
Benzo(a)anthracene	1.112	0.772	0.972	0.823	1.046
Chrysene	1.128	0.808	1.019	0.860	1.065
Benzo(b)fluoranthene	1.203	0.944	1.141	0.962	1.268
Benzo(k)fluoranthene	1.285	0.969	1.218	1.075	1.444
Benzo(a)pyrene	1.102	0.869	1.082	0.931	1.218
Indeno(1,2,3-cd)pyrene	0.964	0.796	0.988	0.827	0.972
Dibenzo(a,h)anthracene	0.905	0.774	0.960	0.814	0.958
Benzo(g,h,i)perylene	1.092	0.916	1.065	0.911	1.015
Nitrobenzene-d5	0.505	0.516	0.451	0.464	0.514
2-Fluorobiphenyl	1.558	1.707	1.538	1.491	1.624
Terphenyl-d14	0.764	0.540	0.637	0.523	0.645

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: 5972HP66 Calibration Date(s): 06/20/10 06/20/10

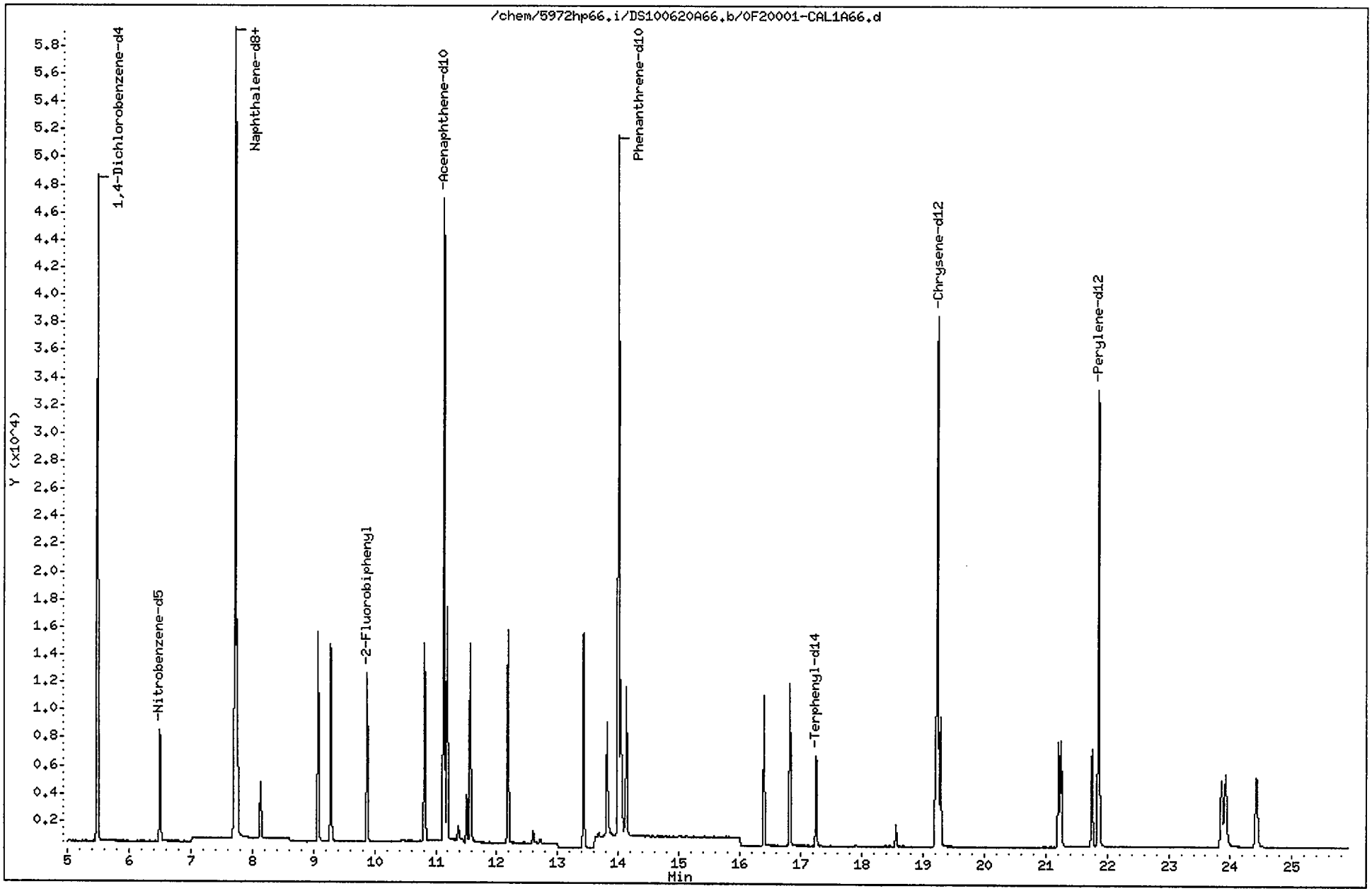
Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0850 1107

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	AVRG	1.16761781	4.750	15.000
2-Methylnaphthalene	AVRG	0.61704226	4.541	15.000
Acenaphthylene	AVRG	2.06031817	4.709	15.000
Acenaphthene	AVRG	1.08819743	8.913	30.000
Fluorene	AVRG	1.39374709	3.741	15.000
Phenanthrene	AVRG	1.09350108	5.520	15.000
Anthracene	AVRG	1.01259518	5.376	15.000
Fluoranthene	AVRG	1.04140950	3.377	30.000
Pyrene	AVRG	1.21543838	16.358	15.000
Benzo(a)anthracene	AVRG	0.94506823	15.321	15.000
Chrysene	AVRG	0.97606668	13.967	15.000
Benzo(b)fluoranthene	AVRG	1.10356374	13.120	15.000
Benzo(k)fluoranthene	AVRG	1.19836266	15.378	15.000
Benzo(a)pyrene	AVRG	1.04045931	13.461	30.000
Indeno(1,2,3-cd)pyrene	AVRG	0.90942553	9.934	15.000
Dibenzo(a,h)anthracene	AVRG	0.88209437	9.618	15.000
Benzo(g,h,i)perylene	AVRG	0.99979062	8.366	15.000
Nitrobenzene-d5	AVRG	0.49012262	6.149	15.000
2-Fluorobiphenyl	AVRG	1.58352313	5.313	15.000
Terphenyl-d14	AVRG	0.62198916	15.595	15.000

FORM VI SV

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL1A66.d
Date : 20-JUN-2010 08:50
Client ID: SSTD0.4Y5
Sample Info: SSTD0.4Y5:MEW
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: MEW
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL1A66.d
Report Date: 21-Jun-2010 17:41

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100620A66.b/0F20001-CAL1A66.d
Lab Smp Id: 0F20001-CAL1 Client Smp ID: SSTD0.4Y5
Inj Date : 20-JUN-2010 08:50
Operator : MEW Inst ID: 5972hp66.i
Smp Info : SSTD0.4Y5:MEW
Misc Info : SSTD0.4Y5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100620A66.b/SIM_8270Cv2DOD.m
Meth Date : 21-Jun-2010 17:40 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 08:50 Cal File: 0F20001-CAL1A66.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+EXTRAICAL.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

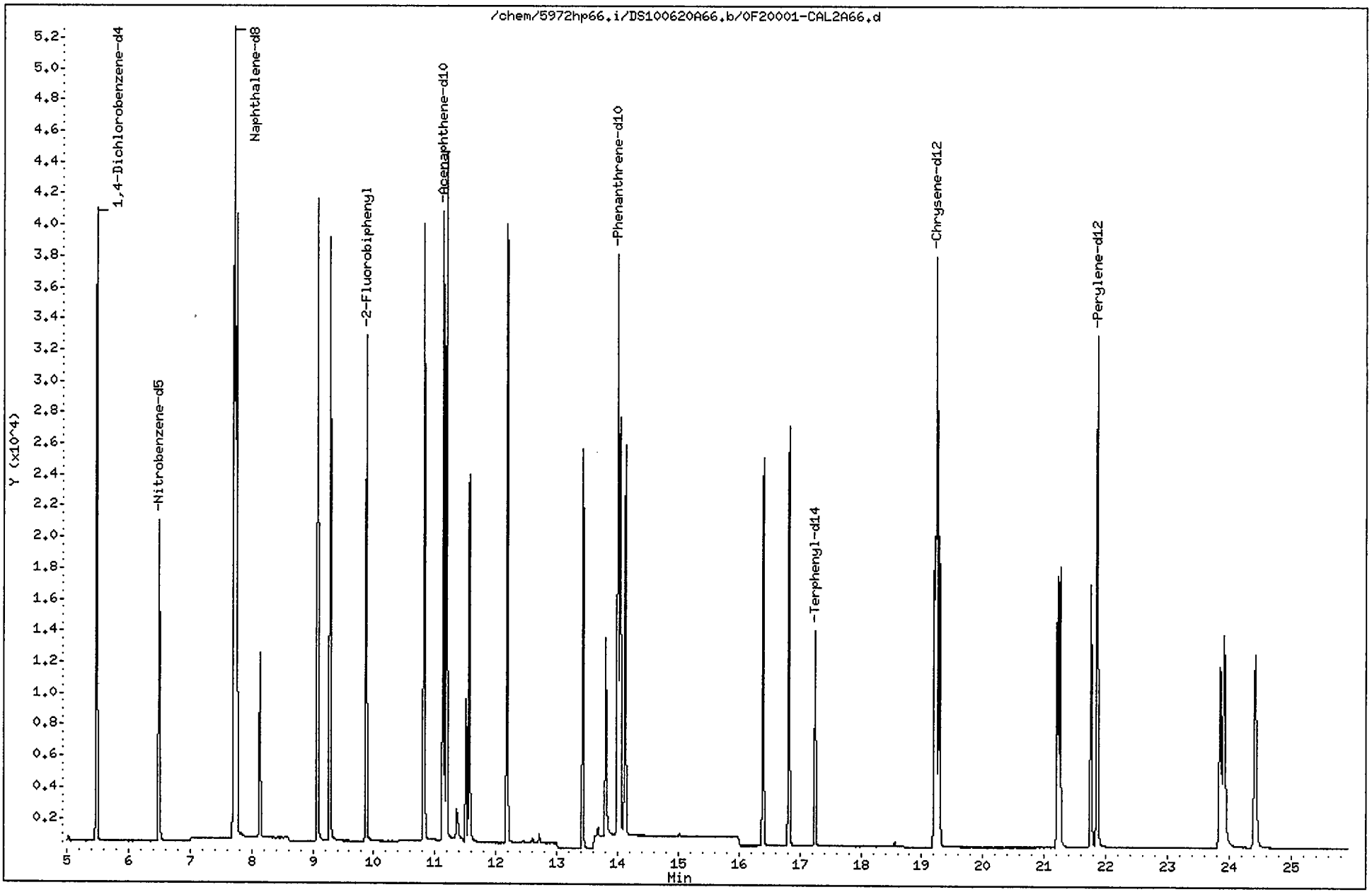
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.490	5.493	(1.000)	28099	2.00000	
*	2 Naphthalene-d8	136	7.717	7.718	(1.000)	83121	2.00000	
*	3 Acenaphthene-d10	164	11.129	11.129	(1.000)	40728	2.00000	
*	4 Phenanthrene-d10	188	14.003	14.003	(1.000)	67779	2.00000	
*	5 Chrysene-d12	240	19.239	19.239	(1.000)	49871	2.00000	
*	6 Perylene-d12	264	21.860	21.859	(1.000)	44168	2.00000	
$	7 2-Fluorophenol	112	Compound Not Detected.					
$	8 Phenol-d5	99	Compound Not Detected.					
$	9 Nitrobenzene-d5	82	6.500	6.490	(0.842)	8389	0.40000	0.40
$	10 2-Fluorobiphenyl	172	9.878	9.872	(0.888)	12689	0.40000	0.40
$	11 2,4,6-Tribromophenol	330	Compound Not Detected.					
$	12 Terphenyl-d14	244	17.252	17.253	(0.897)	7625	0.40000	0.40
	13 Naphthalene	128	7.752	7.753	(1.004)	19491	0.40000	0.40
	14 Hexachlorobutadiene	225	8.134	8.135	(1.054)	3713	0.40000	0.40
	15 2-Methylnaphthalene	141	9.080	9.074	(0.816)	10040	0.40000	0.40

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL1A66.d
Report Date: 21-Jun-2010 17:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
16	1-Methylnaphthalene	142	9.283	9.281	(0.834)	11331	0.40000	0.40
17	Acenaphthylene	152	10.816	10.817	(0.972)	16491	0.40000	0.40
18	Acenaphthene	154	11.186	11.187	(1.005)	9201	0.40000	0.40
20	4-Nitrophenol	139	11.564	11.563	(0.826)	13161	2.00000	2.0
21	Fluorene	166	12.186	12.180	(0.870)	11222	0.40000	0.40
23	Hexachlorobenzene	284	13.428	13.426	(0.959)	17984	2.00000	2.0
24	Pentachlorophenol	266	13.806	13.806	(0.986)	8710	2.00000	2.0
25	Phenanthrene	178	14.038	14.037	(1.002)	14963	0.40000	0.40
26	Anthracene	178	14.130	14.130	(1.009)	13574	0.40000	0.40
27	Fluoranthene	202	16.396	16.397	(0.852)	14656	0.40000	0.40
28	Pyrene	202	16.824	16.820	(0.875)	15268	0.40000	0.40
29	Benzo(a)anthracene	228	19.208	19.208	(0.998)	11095	0.40000	0.40
30	Chrysene	228	19.287	19.288	(1.003)	11251	0.40000	0.40
31	Benzo(b)fluoranthene	252	21.211	21.215	(0.970)	10629	0.40000	0.40
32	Benzo(k)fluoranthene	252	21.256	21.255	(0.972)	11355	0.40000	0.40
33	Benzo(a)pyrene	252	21.754	21.758	(0.995)	9736	0.40000	0.40
34	Indeno(1,2,3-cd)pyrene	276	23.856	23.861	(1.091)	8514	0.40000	0.40
35	Dibenzo(a,h)anthracene	278	23.922	23.923	(1.094)	7994	0.40000	0.40
36	Benzo(g,h,i)perylene	276	24.421	24.430	(1.117)	9651	0.40000	0.40

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL2A66.d
Date : 20-JUN-2010 09:24
Client ID: SSTD1.2Y5
Sample Info: SSTD1.2Y5:MEW
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: MEW
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL2A66.d
Report Date: 21-Jun-2010 17:41

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100620A66.b/0F20001-CAL2A66.d
Lab Smp Id: 0F20001-CAL2 Client Smp ID: SSTD1.2Y5
Inj Date : 20-JUN-2010 09:24
Operator : MEW Inst ID: 5972hp66.i
Smp Info : SSTD1.2Y5:MEW
Misc Info : SSTD1.2Y5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100620A66.b/SIM_8270Cv2DOD.m
Meth Date : 21-Jun-2010 17:40 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 09:24 Cal File: 0F20001-CAL2A66.d
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+EXTRAICAL.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.485	5.493	(1.000)	22847	2.00000	
*	2 Naphthalene-d8	136	7.717	7.718	(1.000)	68372	2.00000	
*	3 Acenaphthene-d10	164	11.128	11.129	(1.000)	33368	2.00000	
*	4 Phenanthrene-d10	188	14.002	14.003	(1.000)	50871	2.00000	
*	5 Chrysene-d12	240	19.238	19.239	(1.000)	51770	2.00000	
*	6 Perylene-d12	264	21.860	21.859	(1.000)	43270	2.00000	
$	7 2-Fluorophenol	112	Compound Not Detected.					
$	8 Phenol-d5	99	Compound Not Detected.					
$	9 Nitrobenzene-d5	82	6.495	6.490	(0.842)	21181	1.20000	1.2
$	10 2-Fluorobiphenyl	172	9.874	9.872	(0.887)	34175	1.20000	1.3
$	11 2,4,6-Tribromophenol	330	Compound Not Detected.					
$	12 Terphenyl-d14	244	17.252	17.253	(0.897)	16762	1.20000	0.99
	13 Naphthalene	128	7.752	7.753	(1.004)	51202	1.20000	1.2
	14 Hexachlorobutadiene	225	8.134	8.135	(1.054)	9707	1.20000	1.2
	15 2-Methylnaphthalene	141	9.076	9.074	(0.816)	27036	1.20000	1.3

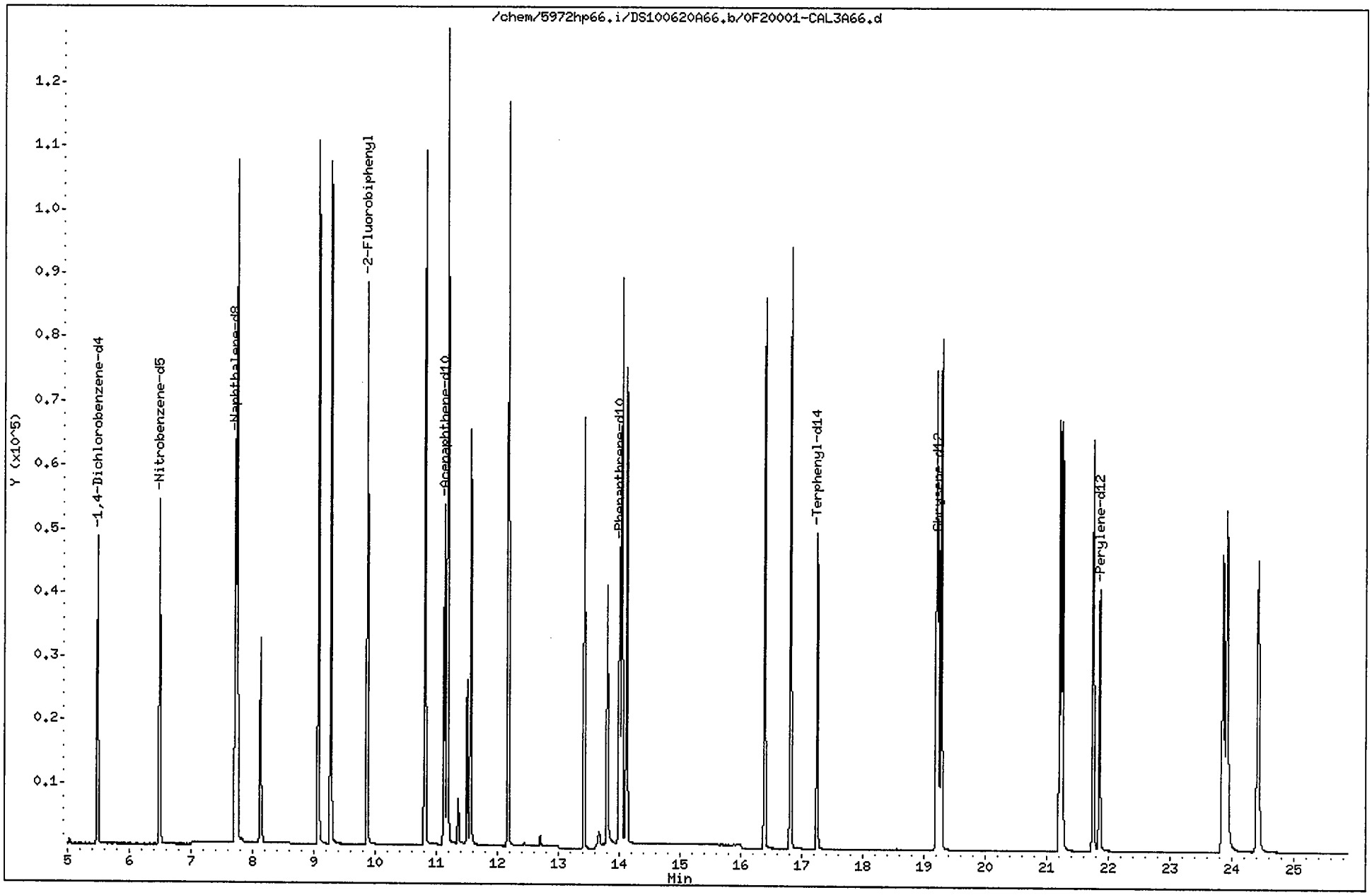
6/21/10

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL2A66.d
Report Date: 21-Jun-2010 17:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
16 1-Methylnaphthalene	142	9.283	9.281	(0.834)	29699	1.20000	1.2
17 Acenaphthylene	152	10.816	10.817	(0.972)	43405	1.20000	1.2
18 Acenaphthene	154	11.186	11.187	(1.005)	18580	1.20000	1.1
20 4-Nitrophenol	139	11.564	11.563	(0.826)	21939	4.00000	4.0
21 Fluorene	166	12.182	12.180	(0.870)	28733	1.20000	1.2
23 Hexachlorobenzene	284	13.426	13.426	(0.959)	29003	4.00000	4.1
24 Pentachlorophenol	266	13.805	13.806	(0.986)	12912	4.00000	4.0
25 Phenanthrene	178	14.037	14.037	(1.002)	35777	1.20000	1.2
26 Anthracene	178	14.129	14.130	(1.009)	32599	1.20000	1.2
27 Fluoranthene	202	16.396	16.397	(0.852)	32490	1.20000	1.2
28 Pyrene	202	16.820	16.820	(0.874)	33696	1.20000	1.00
29 Benzo(a)anthracene	228	19.203	19.208	(0.998)	23971	1.20000	0.98
30 Chrysene	228	19.287	19.288	(1.003)	25108	1.20000	1.0
31 Benzo(b)fluoranthene	252	21.212	21.215	(0.970)	24496	1.20000	1.1
32 Benzo(k)fluoranthene	252	21.252	21.255	(0.972)	25165	1.20000	1.0
33 Benzo(a)pyrene	252	21.754	21.758	(0.995)	22557	1.20000	1.1
34 Indeno(1,2,3-cd)pyrene	276	23.856	23.861	(1.091)	20681	1.20000	1.1
35 Dibenzo(a,h)anthracene	278	23.918	23.923	(1.094)	20086	1.20000	1.1
36 Benzo(g,h,i)perylene	276	24.421	24.430	(1.117)	23776	1.20000	1.1

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL3A66.d
Date : 20-JUN-2010 09:58
Client ID: SSTD003Y5
Sample Info: SSTD003Y5:MEW
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: MEW
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL3A66.d
Report Date: 21-Jun-2010 17:41

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100620A66.b/0F20001-CAL3A66.d
Lab Smp Id: 0F20001-CAL3 Client Smp ID: SSTD003Y5
Inj Date : 20-JUN-2010 09:58
Operator : MEW Inst ID: 5972hp66.i
Smp Info : SSTD003Y5:MEW
Misc Info : SSTD003Y5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100620A66.b/SIM_8270Cv2DOD.m
Meth Date : 21-Jun-2010 17:40 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 09:58 Cal File: 0F20001-CAL3A66.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+EXTRAICAL.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

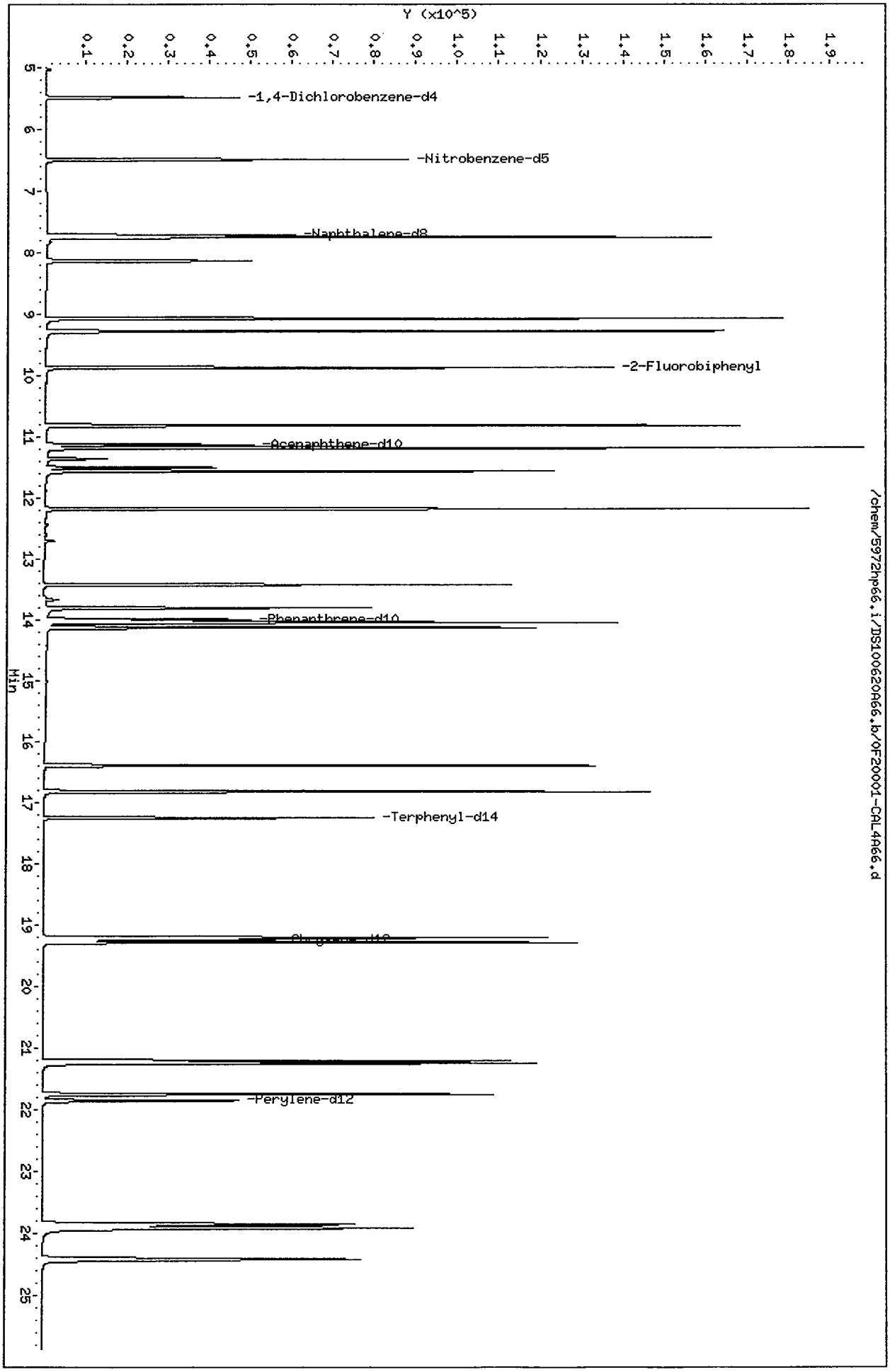
Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.485	5.493	(1.000)	27157	2.00000	
*	2 Naphthalene-d8	136	7.716	7.718	(1.000)	83277	2.00000	
*	3 Acenaphthene-d10	164	11.128	11.129	(1.000)	41164	2.00000	
*	4 Phenanthrene-d10	188	14.003	14.003	(1.000)	71441	2.00000	
*	5 Chrysene-d12	240	19.240	19.239	(1.000)	63143	2.00000	
*	6 Perylene-d12	264	21.860	21.859	(1.000)	53883	2.00000	
$	7 2-Fluorophenol	112	Compound Not Detected.					
$	8 Phenol-d5	99	Compound Not Detected.					
$	9 Nitrobenzene-d5	82	6.490	6.490	(0.841)	56364	3.00000	2.8
$	10 2-Fluorobiphenyl	172	9.873	9.872	(0.887)	94943	3.00000	2.9
$	11 2,4,6-Tribromophenol	330	Compound Not Detected.					
$	12 Terphenyl-d14	244	17.254	17.253	(0.897)	60362	3.00000	3.0
	13 Naphthalene	128	7.751	7.753	(1.004)	139187	3.00000	2.8
	14 Hexachlorobutadiene	225	8.133	8.135	(1.054)	26277	3.00000	2.8
	15 2-Methylnaphthalene	141	9.071	9.074	(0.815)	74131	3.00000	2.9

6/22/10

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL3A66.d
Report Date: 21-Jun-2010 17:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
16 1-Methylnaphthalene	142	9.278	9.281	(0.834)	83248	3.00000	2.9
17 Acenaphthylene	152	10.816	10.817	(0.972)	122465	3.00000	2.9
18 Acenaphthene	154	11.186	11.187	(1.005)	68459	3.00000	3.2
20 4-Nitrophenol	139	11.559	11.563	(0.825)	59010	8.00000	8.5
21 Fluorene	166	12.181	12.180	(0.870)	83801	3.00000	2.9
23 Hexachlorobenzene	284	13.425	13.426	(0.959)	85517	8.00000	8.5
24 Pentachlorophenol	266	13.807	13.806	(0.986)	43578	8.00000	9.0
25 Phenanthrene	178	14.038	14.037	(1.002)	111871	3.00000	2.8
26 Anthracene	178	14.119	14.130	(1.008)	104751	3.00000	2.9
27 Fluoranthene	202	16.393	16.397	(0.852)	109799	3.00000	2.9
28 Pyrene	202	16.821	16.820	(0.874)	118058	3.00000	2.9
29 Benzo(a)anthracene	228	19.204	19.208	(0.998)	92054	3.00000	3.1
30 Chrysene	228	19.284	19.288	(1.002)	96496	3.00000	3.1
31 Benzo(b)fluoranthene	252	21.211	21.215	(0.970)	92216	3.00000	3.1
32 Benzo(k)fluoranthene	252	21.255	21.255	(0.972)	98482	3.00000	3.2
33 Benzo(a)pyrene	252	21.754	21.758	(0.995)	87470	3.00000	3.2
34 Indeno(1,2,3-cd)pyrene	276	23.857	23.861	(1.091)	79859	3.00000	3.2
35 Dibenzo(a,h)anthracene	278	23.919	23.923	(1.094)	77635	3.00000	3.3
36 Benzo(g,h,i)perylene	276	24.422	24.430	(1.117)	86051	3.00000	3.1


Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL4A66.d
Date : 20-JUN-2010 10:33
Client ID: SSTD005Y5
Sample Info: SSTD005Y5:MEW
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: MEW
Column diameter: 0.32
Y (x10^5)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
-Perylene-d12
Min
/chem/5972hp66.i/DS100620A66.b/0F20001-CAL4A66.d

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL4A66.d
Report Date: 21-Jun-2010 17:41

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100620A66.b/0F20001-CAL4A66.d
Lab Smp Id: 0F20001-CAL4 Client Smp ID: SSTD005Y5
Inj Date : 20-JUN-2010 10:33
Operator : MEW Inst ID: 5972hp66.i
Smp Info : SSTD005Y5:MEW
Misc Info : SSTD005Y5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100620A66.b/SIM_8270Cv2DOD.m
Meth Date : 21-Jun-2010 17:40 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 10:33 Cal File: 0F20001-CAL4A66.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+EXTRAICAL.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

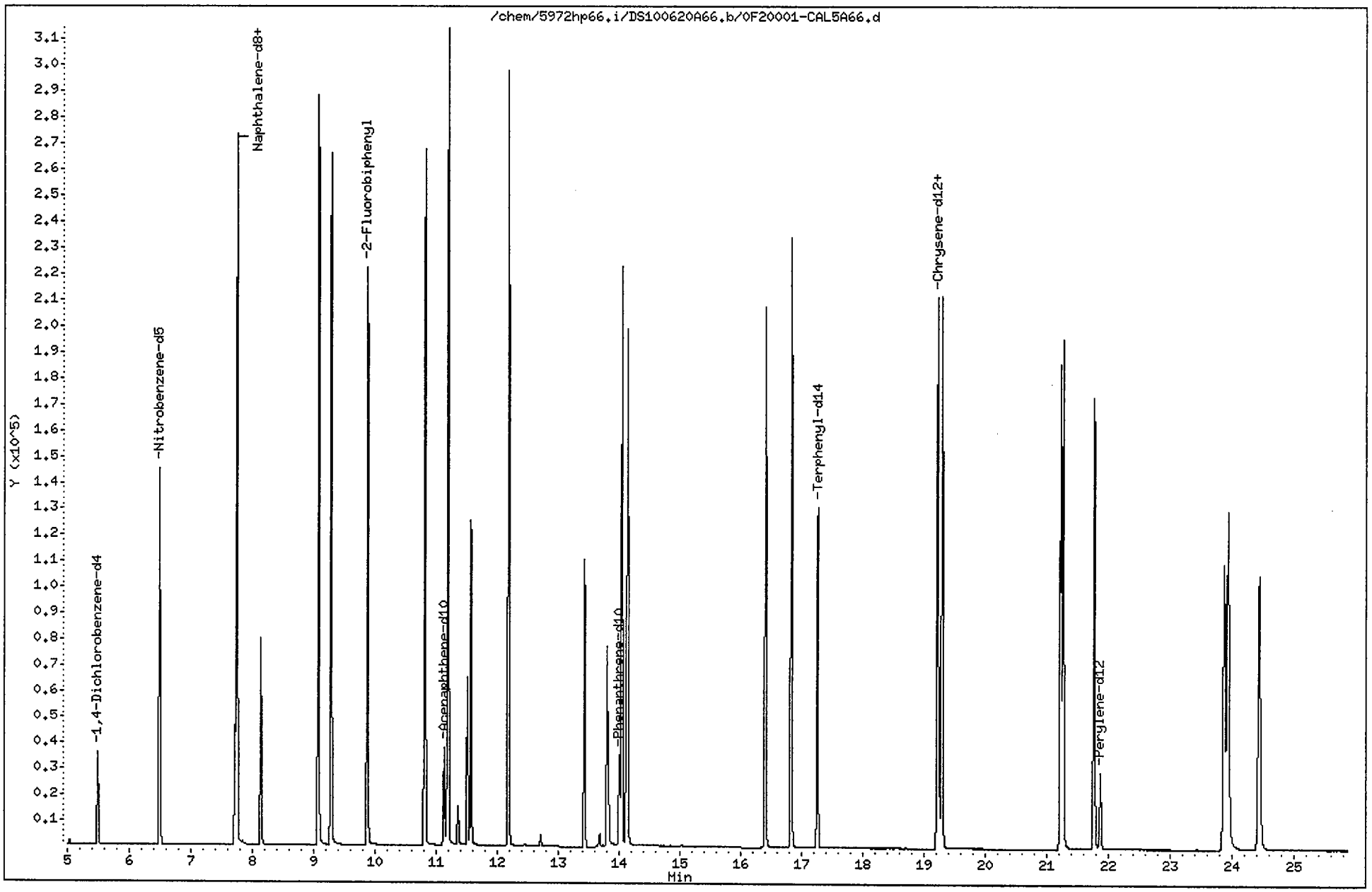
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.484	5.493	(1.000)	26078	2.00000	
* 2 Naphthalene-d8	136	7.718	7.718	(1.000)	78358	2.00000	
* 3 Acenaphthene-d10	164	11.129	11.129	(1.000)	39134	2.00000	
* 4 Phenanthrene-d10	188	14.003	14.003	(1.000)	68762	2.00000	
* 5 Chrysene-d12	240	19.239	19.239	(1.000)	73212	2.00000	
* 6 Perylene-d12	264	21.859	21.859	(1.000)	63643	2.00000	
$ 7 2-Fluorophenol	112	Compound Not Detected.					
$ 8 Phenol-d5	99	Compound Not Detected.					
$ 9 Nitrobenzene-d5	82	6.490	6.490	(0.841)	90996	5.00000	4.8
$ 10 2-Fluorobiphenyl	172	9.872	9.872	(0.887)	145840	5.00000	4.7
$ 11 2,4,6-Tribromophenol	330	Compound Not Detected.					
$ 12 Terphenyl-d14	244	17.253	17.253	(0.897)	95752	5.00000	4.2
13 Naphthalene	128	7.753	7.753	(1.004)	218759	5.00000	4.8
14 Hexachlorobutadiene	225	8.135	8.135	(1.054)	40105	5.00000	4.7
15 2-Methylnaphthalene	141	9.075	9.074	(0.815)	116868	5.00000	4.9

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL4A66.d
Report Date: 21-Jun-2010 17:41

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
16	1-Methylnaphthalene	142	9.277	9.281	(0.834)	127449	5.00000	4.8
17	Acenaphthylene	152	10.817	10.817	(0.972)	192322	5.00000	4.8
18	Acenaphthene	154	11.187	11.187	(1.005)	106371	5.00000	5.1
20	4-Nitrophenol	139	11.563	11.563	(0.826)	107377	16.0000	16
21	Fluorene	166	12.180	12.180	(0.870)	130913	5.00000	4.9
23	Hexachlorobenzene	284	13.426	13.426	(0.959)	129175	16.0000	14
24	Pentachlorophenol	266	13.806	13.806	(0.986)	75254	16.0000	16
25	Phenanthrene	178	14.037	14.037	(1.002)	175953	5.00000	4.7
26	Anthracene	178	14.130	14.130	(1.009)	162844	5.00000	4.7
27	Fluoranthene	202	16.397	16.397	(0.852)	170369	5.00000	4.8
28	Pyrene	202	16.821	16.820	(0.874)	185649	5.00000	4.2
29	Benzo(a)anthracene	228	19.208	19.208	(0.998)	150658	5.00000	4.5
30	Chrysene	228	19.288	19.288	(1.003)	157463	5.00000	4.5
31	Benzo(b)fluoranthene	252	21.215	21.215	(0.971)	153114	5.00000	4.5
32	Benzo(k)fluoranthene	252	21.255	21.255	(0.972)	171034	5.00000	4.7
33	Benzo(a)pyrene	252	21.758	21.758	(0.995)	148148	5.00000	4.7
34	Indeno(1,2,3-cd)pyrene	276	23.857	23.861	(1.091)	131523	5.00000	4.6
35	Dibenzo(a,h)anthracene	278	23.919	23.923	(1.094)	129479	5.00000	4.7
36	Benzo(g,h,i)perylene	276	24.427	24.430	(1.117)	144944	5.00000	4.6

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL5A66.d
Date : 20-JUN-2010 11:07
Client ID: SSTD010Y5
Sample Info: SSTD010Y5:MEW
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: MEW
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL5A66.d
Report Date: 21-Jun-2010 17:41

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100620A66.b/0F20001-CAL5A66.d
Lab Smp Id: 0F20001-CAL5 Client Smp ID: SSTD010Y5
Inj Date : 20-JUN-2010 11:07
Operator : MEW Inst ID: 5972hp66.i
Smp Info : SSTD010Y5:MEW
Misc Info : SSTD010Y5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100620A66.b/SIM_8270Cv2DOD.m
Meth Date : 21-Jun-2010 17:40 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+EXTRAICAL.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1	1,4-Dichlorobenzene-d4	152	5.493	5.493	(1.000)	20699	2.00000	
* 2	Naphthalene-d8	136	7.718	7.718	(1.000)	59913	2.00000	
* 3	Acenaphthene-d10	164	11.129	11.129	(1.000)	29182	2.00000	
* 4	Phenanthrene-d10	188	14.003	14.003	(1.000)	51110	2.00000	
* 5	Chrysene-d12	240	19.239	19.239	(1.000)	48765	2.00000	
* 6	Perylene-d12	264	21.859	21.859	(1.000)	39122	2.00000	
$ 7	2-Fluorophenol	112	Compound Not Detected.					
$ 8	Phenol-d5	99	Compound Not Detected.					
$ 9	Nitrobenzene-d5	82	6.490	6.490	(0.841)	153958	10.0000	10(A)
$ 10	2-Fluorobiphenyl	172	9.872	9.872	(0.887)	237039	10.0000	10(A)
$ 11	2,4,6-Tribromophenol	330	Compound Not Detected.					
$ 12	Terphenyl-d14	244	17.253	17.253	(0.897)	157362	10.0000	10(A)
13	Naphthalene	128	7.753	7.753	(1.004)	355450	10.0000	10(A)
14	Hexachlorobutadiene	225	8.135	8.135	(1.054)	64951	10.0000	9.9
15	2-Methylnaphthalene	141	9.074	9.074	(0.815)	189384	10.0000	10(A)

Data File: /chem/5972hp66.i/DS100620A66.b/0F20001-CAL5A66.d
Report Date: 21-Jun-2010 17:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
16 1-Methylnaphthalene	142	9.281	9.281	(0.834)	209827	10.0000	10(A)
17 Acenaphthylene	152	10.817	10.817	(0.972)	315154	10.0000	10(A)
18 Acenaphthene	154	11.187	11.187	(1.005)	173256	10.0000	11(A)
20 4-Nitrophenol	139	11.563	11.563	(0.826)	109527	20.0000	22(A)
21 Fluorene	166	12.180	12.180	(0.870)	213118	10.0000	10(A)
23 Hexachlorobenzene	284	13.426	13.426	(0.959)	130059	20.0000	19
24 Pentachlorophenol	266	13.806	13.806	(0.986)	75403	20.0000	21(A)
25 Phenanthrene	178	14.037	14.037	(1.002)	287252	10.0000	10(A)
26 Anthracene	178	14.130	14.130	(1.009)	273134	10.0000	11(A)
27 Fluoranthene	202	16.397	16.397	(0.852)	267242	10.0000	10(A)
28 Pyrene	202	16.820	16.820	(0.874)	292803	10.0000	9.9
29 Benzo(a)anthracene	228	19.208	19.208	(0.998)	255093	10.0000	11(A)
30 Chrysene	228	19.288	19.288	(1.003)	259645	10.0000	11(A)
31 Benzo(b)fluoranthene	252	21.215	21.215	(0.971)	247988	10.0000	11(A)
32 Benzo(k)fluoranthene	252	21.255	21.255	(0.972)	282393	10.0000	12(A)
33 Benzo(a)pyrene	252	21.758	21.758	(0.995)	238244	10.0000	12(A)
34 Indeno(1,2,3-cd)pyrene	276	23.861	23.861	(1.092)	190140	10.0000	11(A)
35 Dibenzo(a,h)anthracene	278	23.923	23.923	(1.094)	187302	10.0000	11(A)
36 Benzo(g,h,i)perylene	276	24.430	24.430	(1.118)	198539	10.0000	10(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 6/20/10 INITIAL TIME OF TUNE 0848 SHIFT/S (A) ✓ (B)____ (C)____
TIME TUNE EXPIRES 2048
METHOD: 625 (8270C) 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y) N)
PREVENTIVE MAINTENANCE none 0062102

	SEQUENCE#	REJECTED	FILENAME	REVIEWED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	0F20001		0F20001-TUNIA066	/	6/20/10	0734	DFTPPY5	–	2µL	MEW	SCD=LCD
2	S100620A		ASCAN	/	/ /	0801	SSTD003	–	↓		
3			N/A	/	/ /	0848	FC43	–	N/A		
4			0F20001-CALIA066	/	/ /	0850	SSTD0.4Y5	–	2µL		0E18005 8/18/10
5			-CAL2A066	/	/ /	0924	1.2	–			0E18006
6			-CAL3A066	/	/ /	0958	003	–			0F18002
7			-CAL4A066	/	/ /	1033	005	–			0E18009
8			-CAL5A066	/	/ /	1107	010	–			0E18010
9			S100620A066	/	/ /	1141	SSTD003VAL	–	↓	↓	0E26005 8/26/10
10					/ /						
11					/ /						
12					/ /						
13					/ /						
14					/ /						
15					/ /						
16					/ /						
17					/ /						
18					/ /						
19					/ /						
20					/ /						
21					/ /						
22					/ /						
23					/ /						
24					/ /						

MW 6/21/10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: See Comments
Internal STD Lot#/Exp. Date: 0F18001 11/18/10
Methylene Chloride Lot#/Exp. Date: J17S00 6/8/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: RM DATE 6/21/10

b. Continuing Calibration Data (Form VII SV)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

(1) Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

(2) EICPs displaying each manual integration.

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: 5972HP66 Calibration Date: 05/31/10 Time: 0058

Lab File ID: 0E31001-CCV1C6 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 0601 0816

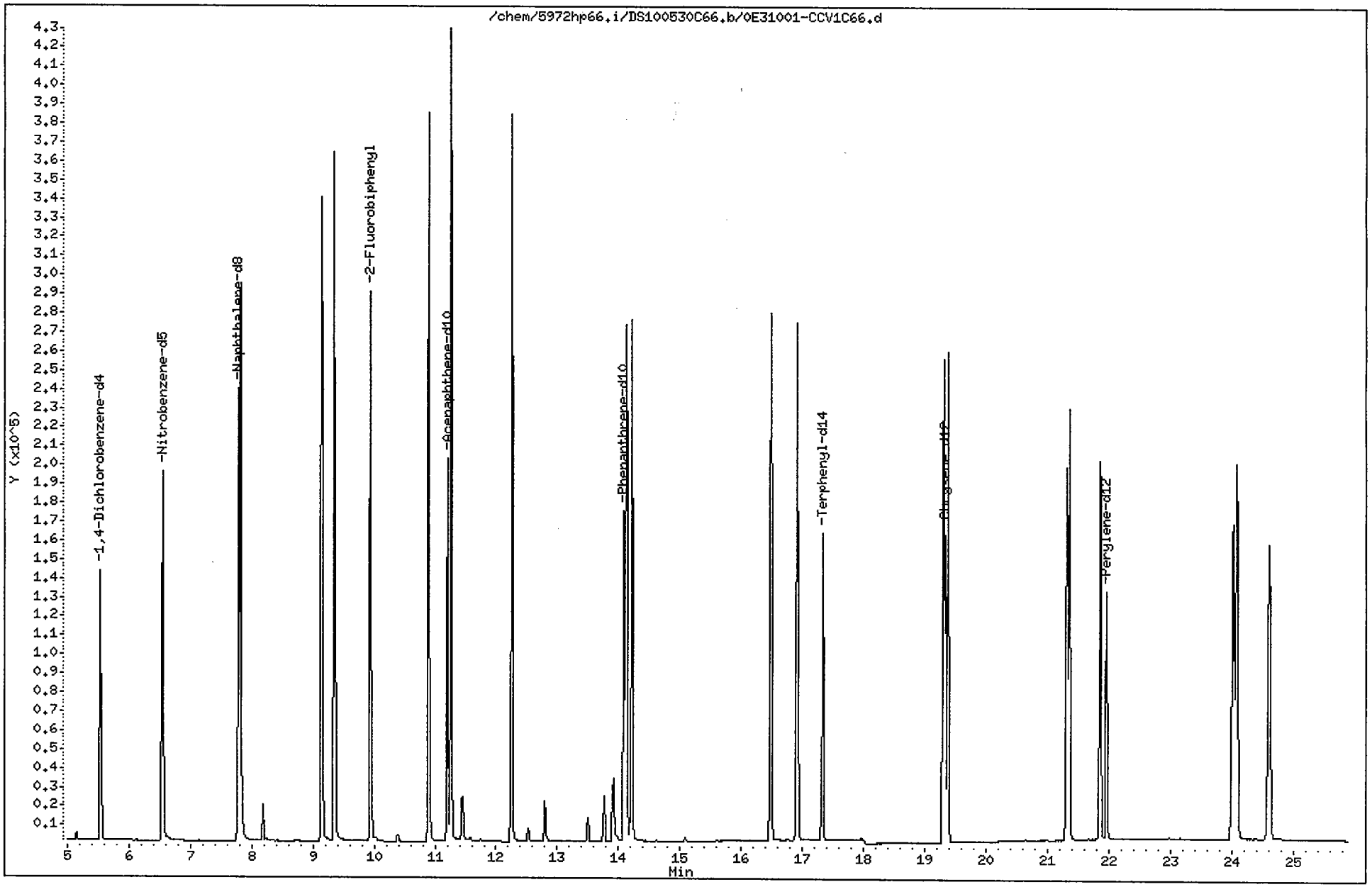
GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.0495701	0.01	-15.15	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.1948300	0.01	-16.56	50.00	AVRG
Acenaphthylene	2.2340000	2.0172815	0.01	-9.70	50.00	AVRG
Acenaphthene	1.3090000	1.1400471	0.01	-12.91	20.00	AVRG
Fluorene	0.9360000	0.7915911	0.01	-15.43	50.00	AVRG
Phenanthrene	1.2470000	1.0331953	0.01	-17.14	50.00	AVRG
Anthracene	1.1220000	0.9966150	0.01	-11.18	50.00	AVRG
Fluoranthene	1.3260000	1.1544961	0.01	-12.93	20.00	AVRG
Pyrene	1.4440000	1.2372936	0.01	-14.31	50.00	AVRG
Benzo(a)anthracene	1.0870000	1.0124495	0.01	-6.86	50.00	AVRG
Chrysene	1.1770000	0.9997586	0.01	-15.06	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.0447621	0.01	-20.79	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.2149087	0.01	-14.38	50.00	AVRG
Benzo(a)pyrene	1.1890000	1.0126937	0.01	-14.83	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.9653070	0.01	-7.98	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.9246269	0.01	-10.84	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	0.9927391	0.01	-14.57	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4682422	0.01	5.22	50.00	AVRG
2-Fluorobiphenyl	2.0870000	1.3296870	0.01	-36.29	50.00	AVRG
Terphenyl-d14	0.7270000	0.6187316	0.01	-14.89	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100530C66.b/0E31001-CCV1C66.d
Date : 31-MAY-2010 00:58
Client ID: SSTD3.00IS
Sample Info: SSTD3.00IS:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/0E31001-CCV1C66.d
Report Date: 31-May-2010 01:43

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/0E31001-CCV1C66.d
Lab Smp Id: 0E31001-CCV1 Client Smp ID: SSTD3.00IS
Inj Date : 31-MAY-2010 00:58
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IS:2743
Misc Info : SSTD3.00IS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 31-May-2010 01:42 mweichel Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.543	5.543	(1.000)	86207	2.00000	
*	2 Naphthalene-d8	136	7.785	7.785	(1.000)	310207	2.00000	
*	3 Acenaphthene-d10	164	11.206	11.206	(1.000)	143159	2.00000	
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	228757	2.00000	
*	5 Chrysene-d12	240	19.336	19.336	(1.000)	204346	2.00000	
*	6 Perylene-d12	264	21.960	21.960	(1.000)	181612	2.00000	
$	9 Nitrobenzene-d5	82	6.547	6.547	(0.841)	217878	3.00000	3.2
$	10 2-Fluorobiphenyl	172	9.936	9.936	(0.887)	285535	3.00000	1.9
$	12 Terphenyl-d14	244	17.334	17.334	(0.896)	189653	3.00000	2.6
	13 Naphthalene	128	7.825	7.825	(1.005)	488376	3.00000	2.5
	15 2-Methylnaphthalene	141	9.141	9.141	(0.816)	256576	3.00000	2.5
	17 Acenaphthylene	152	10.893	10.893	(0.972)	433188	3.00000	2.7
	18 Acenaphthene	154	11.258	11.258	(1.005)	244812	3.00000	2.6
	21 Fluorene	166	12.261	12.261	(0.870)	271623	3.00000	2.5
	25 Phenanthrene	178	14.126	14.126	(1.003)	354526	3.00000	2.5

MW 5/31/10

Data File: /chem/5972hp66.i/DS100530C66.b/0E31001-CCV1C66.d
Report Date: 31-May-2010 01:43

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.218	(1.009)	341974	3.00000	2.7
27 Fluoranthene	202	16.486	16.486	(0.853)	353875	3.00000	2.6
28 Pyrene	202	16.917	16.917	(0.875)	379254	3.00000	2.6
29 Benzo(a)anthracene	228	19.302	19.302	(0.998)	310335	3.00000	2.8
30 Chrysene	228	19.380	19.380	(1.002)	306445	3.00000	2.5
31 Benzo(b)fluoranthene	252	21.318	21.318	(0.971)	284612	3.00000	2.4
32 Benzo(k)fluoranthene	252	21.350	21.350	(0.972)	330963	3.00000	2.6
33 Benzo(a)pyrene	252	21.862	21.862	(0.996)	275876	3.00000	2.6
34 Indeno(1,2,3-cd)pyrene	276	24.028	24.028	(1.094)	262967	3.00000	2.8
35 Dibenzo(a,h)anthracene	278	24.082	24.082	(1.097)	251885	3.00000	2.7
36 Benzo(g,h,i)perylene	276	24.616	24.616	(1.121)	270440	3.00000	2.6

MW 5/31/10

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/31/10 INITIAL TIME OF TUNE 0044 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1244
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y)/N)
PREVENTIVE MAINTENANCE Front/Liner/Septum

	SEQUENCE#	REVIEWED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	0E31001		N/A	/	5/31/10	0044	FC43	—	N/A	2743	SCD=LCD
2	S10053DC		0E31001-CCV1C606	/	/ /	0058	SSTD3.00IS	—	2µL		
3		/	0051831-BLK1JC606	1L	/ /	0208	SBLKBK	1005130			
4			-BLK1JZC606	/	/ /	0254	↓				
5		/	-BS1C606	1L	/ /	0330	SBKLCS				
6			-BS1JC606	/	/ /	0404	↓				
7		/	1005130-07C606	SH	/ /	0443	SS50-0-1				
8		/	0051831-MS1C606	SH	/ /	0517	SS50-0-1MS				
9			↓ -MSD1C606	/	/ /	0551	SS50-0-1MSD				
10		/	1005130-01C606	SL	/ /	0625	SS23-00-01				
11		/	-02C606	SL	/ /	0659	SB23-1.5-2				
12			-03C606	/	/ /	0733	SS24-0-1				
13			-04C606	/	/ /	0800	SB24-3-4				
14		/	-05C606	1L SL	/ /	0840	SS49-0-1				
15		/	-06C606	1L SL	/ /	0914	SB49-11-12				
16			-08C606	/	/ /	0948	SB47-14-15				
17			-09C606	/	/ /	1022	SS47-0-1				
18			-10C606	/	/ /	1056	SS11-0-1				
19		/	-11C606	SL	/ /	1129	SB11-11-12				
20		/	-12C606	SL	/ /	1203	SB48-7-8				
21			-13C606	/	/ /	1237	SS48-0-1				
22					/ /						
23					/ /		MW 5/31/10				
24					/ /						

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FULLSIM 0E18007 8/18/10
Internal STD Lot#/Exp. Date: 040 0E18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TM DATE 6/1/10
6/01/09 jr

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: 5972HP66 Calibration Date: 05/31/10 Time: 2341

Lab File ID: 0F01001-CCV1C6 Init. Calib. Date(s): 05/25/10 05/25/10

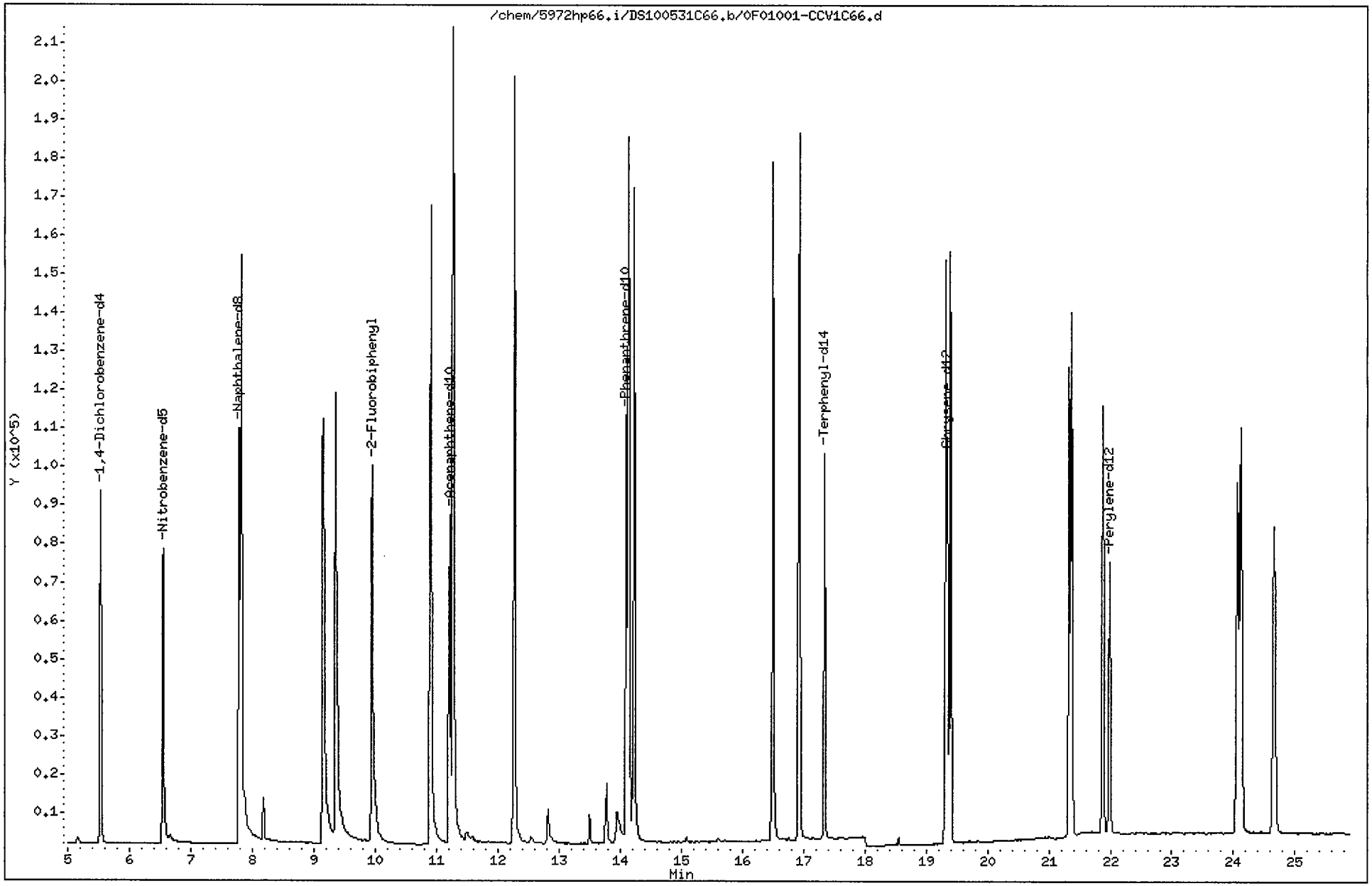
Init. Calib. Times: 0601 0816

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.0196811	0.01	-17.57	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.0801712	0.01	-24.57	50.00	AVRG
Acenaphthylene	2.2340000	2.0199463	0.01	-9.58	50.00	AVRG
Acenaphthene	1.3090000	1.1469214	0.01	-12.38	20.00	AVRG
Fluorene	0.9360000	0.6932543	0.01	-25.93	50.00	AVRG
Phenanthrene	1.2470000	1.0104347	0.01	-18.97	50.00	AVRG
Anthracene	1.1220000	1.0194980	0.01	-9.14	50.00	AVRG
Fluoranthene	1.3260000	1.2689005	0.01	-4.31	20.00	AVRG
Pyrene	1.4440000	1.3258018	0.01	-8.18	50.00	AVRG
Benzo(a)anthracene	1.0870000	0.9998770	0.01	-8.01	50.00	AVRG
Chrysene	1.1770000	0.9978123	0.01	-15.22	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.0473157	0.01	-20.60	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.1919491	0.01	-16.00	50.00	AVRG
Benzo(a)pyrene	1.1890000	0.9854967	0.01	-17.12	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.8850508	0.01	-15.63	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.8198133	0.01	-20.94	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	0.8604733	0.01	-25.95	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4664676	0.01	4.82	50.00	AVRG
2-Fluorobiphenyl	2.0870000	1.3367694	0.01	-35.95	50.00	AVRG
Terphenyl-d14	0.7270000	0.6556512	0.01	-9.81	50.00	AVRG

Data File: /chem/5972hp66.i/DS100531C66.b/0F01001-CCV1C66.d
Date : 31-MAY-2010 23:41
Client ID: SSTD3.00IT
Sample Info: SSTD3.00IT:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100531C66.b/0F01001-CCV1C66.d
Report Date: 01-Jun-2010 00:29

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100531C66.b/0F01001-CCV1C66.d
Lab Smp Id: 0F01001-CCV1 Client Smp ID: SSTD3.00IT
Inj Date : 31-MAY-2010 23:41
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IT:2743
Misc Info : SSTD3.00IT
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100531C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 00:28 mweichel Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.535	5.535	(1.000)	50825	2.00000	
*	2 Naphthalene-d8	136	7.790	7.790	(1.000)	156411	2.00000	
*	3 Acenaphthene-d10	164	11.218	11.218	(1.000)	84594	2.00000	
*	4 Phenanthrene-d10	188	14.101	14.101	(1.000)	166017	2.00000	
*	5 Chrysene-d12	240	19.353	19.353	(1.000)	130120	2.00000	
*	6 Perylene-d12	264	21.983	21.983	(1.000)	110182	2.00000	
$	9 Nitrobenzene-d5	82	6.552	6.552	(0.841)	109441	3.00000	3.1
$	10 2-Fluorobiphenyl	172	9.954	9.954	(0.887)	169624	3.00000	1.9
$	12 Terphenyl-d14	244	17.347	17.347	(0.896)	127970	3.00000	2.7
	13 Naphthalene	128	7.816	7.816	(1.003)	239234	3.00000	2.5
	15 2-Methylnaphthalene	141	9.159	9.159	(0.816)	137064	3.00000	2.3
	17 Acenaphthylene	152	10.905	10.905	(0.972)	256313	3.00000	2.7
	18 Acenaphthene	154	11.270	11.270	(1.005)	145534	3.00000	2.6
	21 Fluorene	166	12.273	12.273	(0.870)	172638	3.00000	2.2
	25 Phenanthrene	178	14.140	14.140	(1.003)	251624	3.00000	2.4

MW 5/31/10

Data File: /chem/5972hp66.i/DS100531C66.b/0F01001-CCV1C66.d
Report Date: 01-Jun-2010 00:29

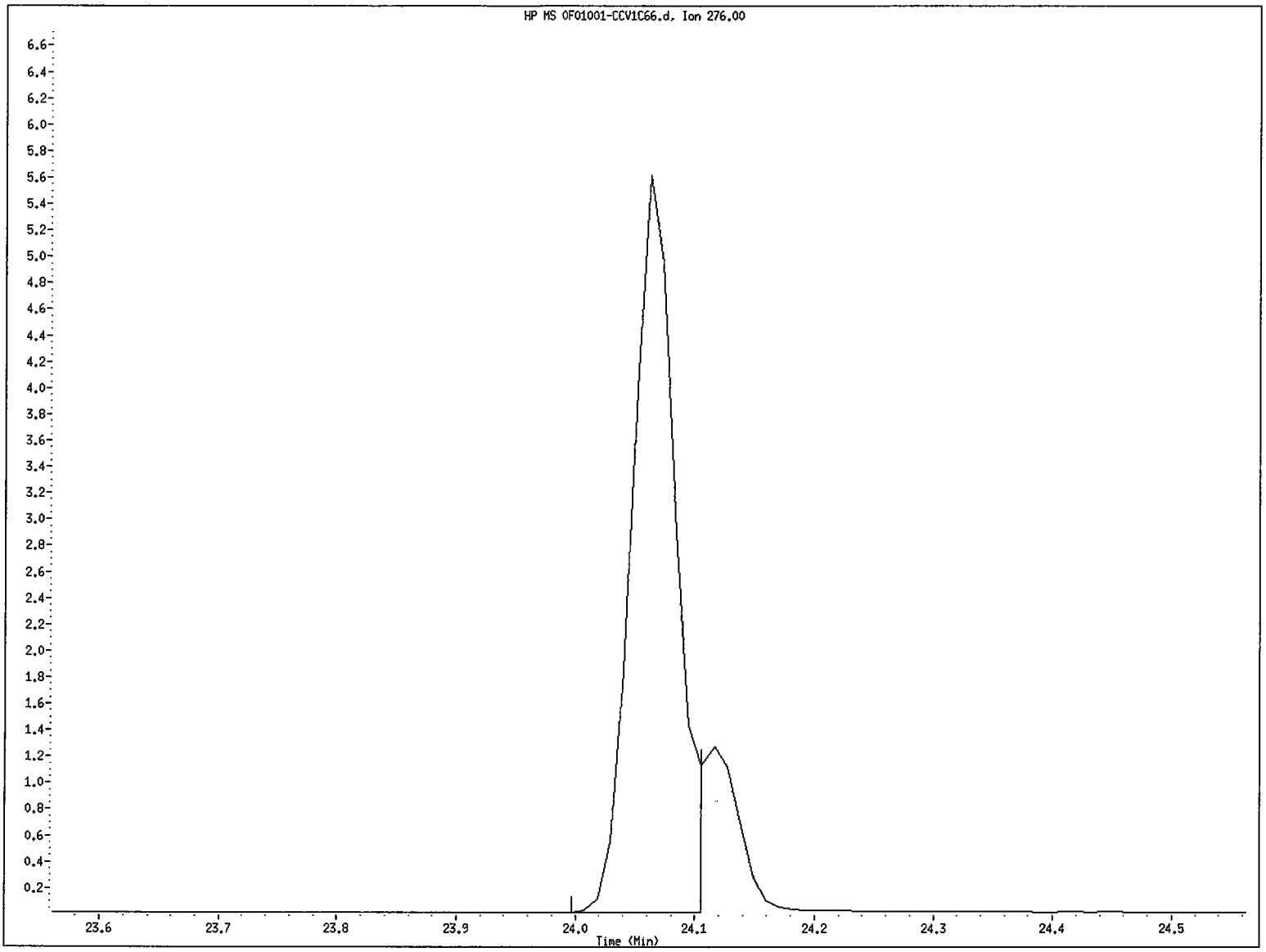
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	253881	3.00000	2.7
27 Fluoranthene	202	16.500	16.500	(0.853)	247664	3.00000	2.9
28 Pyrene	202	16.930	16.930	(0.875)	258770	3.00000	2.8
29 Benzo(a)anthracene	228	19.318	19.318	(0.998)	195156	3.00000	2.8
30 Chrysene	228	19.397	19.397	(1.002)	194753	3.00000	2.5
31 Benzo(b)fluoranthene	252	21.330	21.330	(0.970)	173093	3.00000	2.4
32 Benzo(k)fluoranthene	252	21.373	21.373	(0.972)	196997	3.00000	2.5
33 Benzo(a)pyrene	252	21.885	21.885	(0.996)	162876	3.00000	2.5
34 Indeno(1,2,3-cd)pyrene	276	24.062	24.062	(1.095)	146275	3.00000	2.5(M)
35 Dibenzo(a,h)anthracene	278	24.116	24.116	(1.097)	135493	3.00000	2.4
36 Benzo(g,h,i)perylene	276	24.661	24.661	(1.122)	142213	3.00000	2.2

2.
MW 5/31/10
RM 6/2/10

QC Flag Legend

M - Compound response manually integrated.

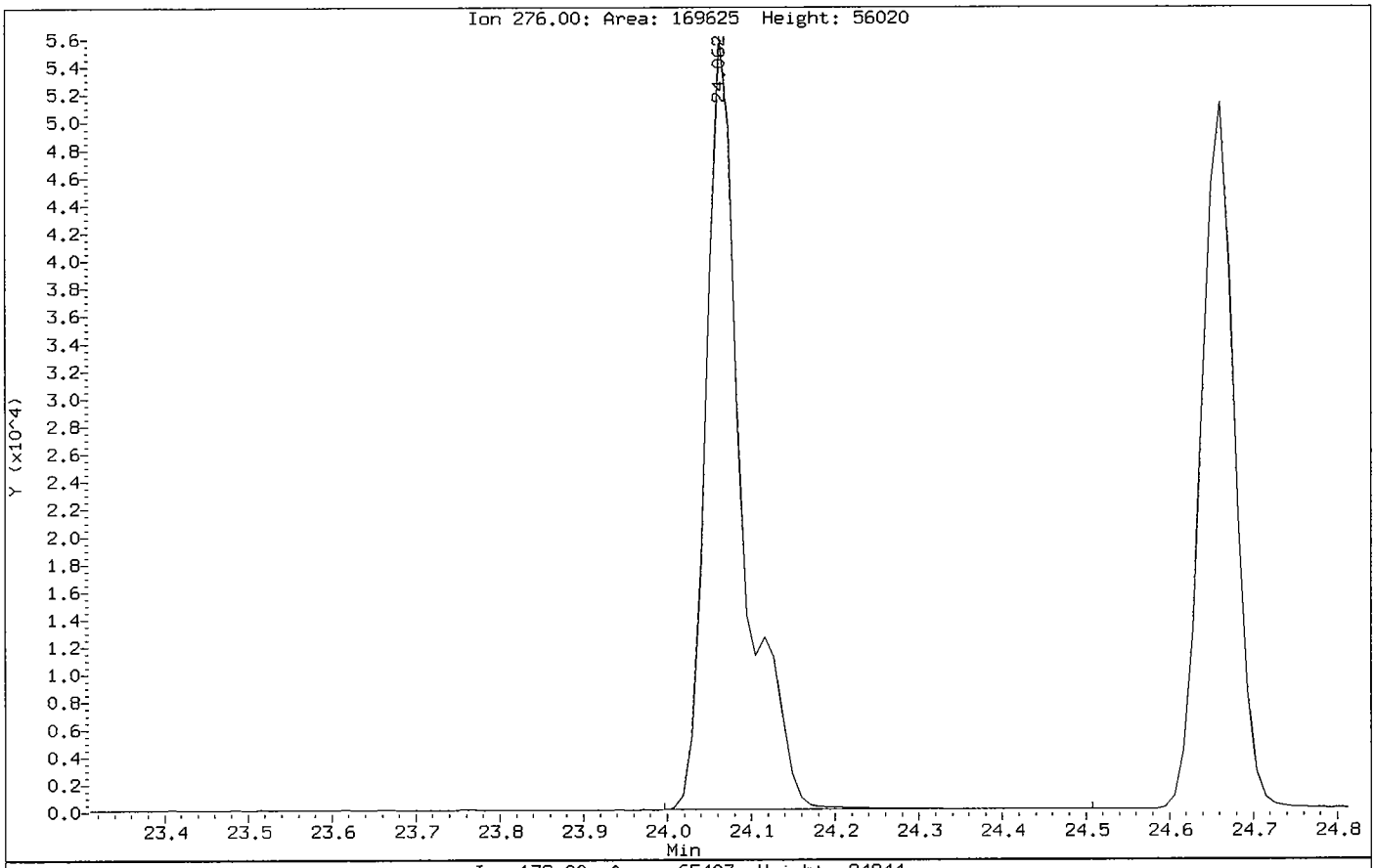
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 146275 Manually integrated

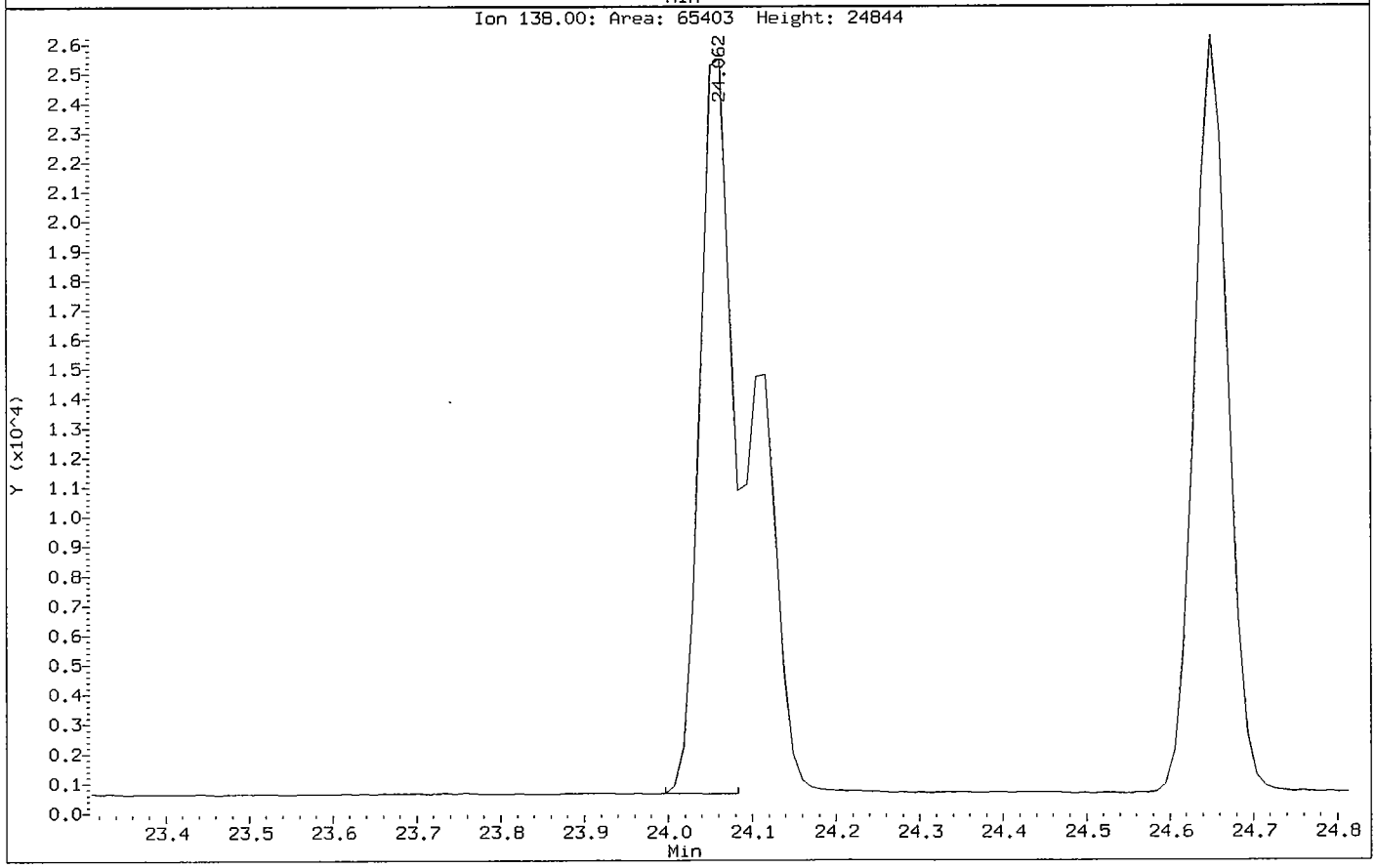


File name: /chem/5972hp66.i/DS100531C66.b/0F01001-CCV1C66.d
Client ID: SSTD3.00IT
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 23:41
Retention Time: 24.06
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100531C66.b/0F01001-CCV1C66.d
Injection Date: 31-MAY-2010 23:41
Instrument: 5972hp66.i
Client Sample ID: SSTD3.00IT

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/31/10 INITIAL TIME OF TUNE 2339 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1139
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y)N)
PREVENTIVE MAINTENANCE none

	SEQUENCE#	REJECTED	FILENAME	REJECTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	0F01001		N/A	/	5/31/10	2339	FC43	—	N/A	2743	SCD=LCD
2	S100531C		0F01001-CCV1C066	/	/↓/	2341	SSTD3.00IT	—	2µL		
3			1005130-01JC066	/	6/1/10	0025	SS23-00-01	1005130			
4		/	-02JC066	SL	/ /	0059	SB23-1.5-2				Rx
5		/	-05JC066	SL	/ /	0133	SS49-0-1				Rx
6		/	-06JC066	SL	/ /	0207	SB49-11-12				Rx
7		/	-11JC066	SL	/ /	0241	SB11-11-12				Rx
8			-02J2C066	/	/ /	0315	SB23-1.5-2				
9		/	-12JC066	SL	/ /	0349	SB48-7-8				Rx
10			-05J2C066	/	/ /	0423	SS49-0-1				
11		/	-06J2C066	SL	/ /	0457	SB49-11-12				Rx
12		/	0051831-MS1JC066	SH	/ /	0531	SS50-0-1MS				Rx
13		/	1005130-07JC066	SH	/ /	0605	SS50-0-1				Rx
14			-14C066	/	/ /	0639	SS18-0-1				
15		/	-15C066	SL	/ /	0713	SB18-12-13				Rx
16		/	-16C066	SL	/ /	0747	SS25-0-1				Rx
17			-17C066	/	/ /	0821	SB25-3-4				
18			-18C066	/	/ /	0855	SS08-0-1				
19		/	-19C066	SL	/ /	0929	SB08-6-7				Rx
20			-20C066	SL	/↓/	1003	SS05-0-1	↓	↓	↓	Rx
21					/ /						
22					/ /						
23					/ /						
24					/ /						

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FULLSIM OE18007 8/18/10
Internal STD Lot#/Exp. Date: 040 OE18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10S04 4/21/11
Column Type: RTX-5MS @.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: DMP DATE 6/1/10
6/01/09:jr

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: 5972HP66 Calibration Date: 06/23/10 Time: 1150

Lab File ID: 0F23008-CCV2A6 Init. Calib. Date(s): 06/20/10 06/20/10

Init. Calib. Times: 0850 1107

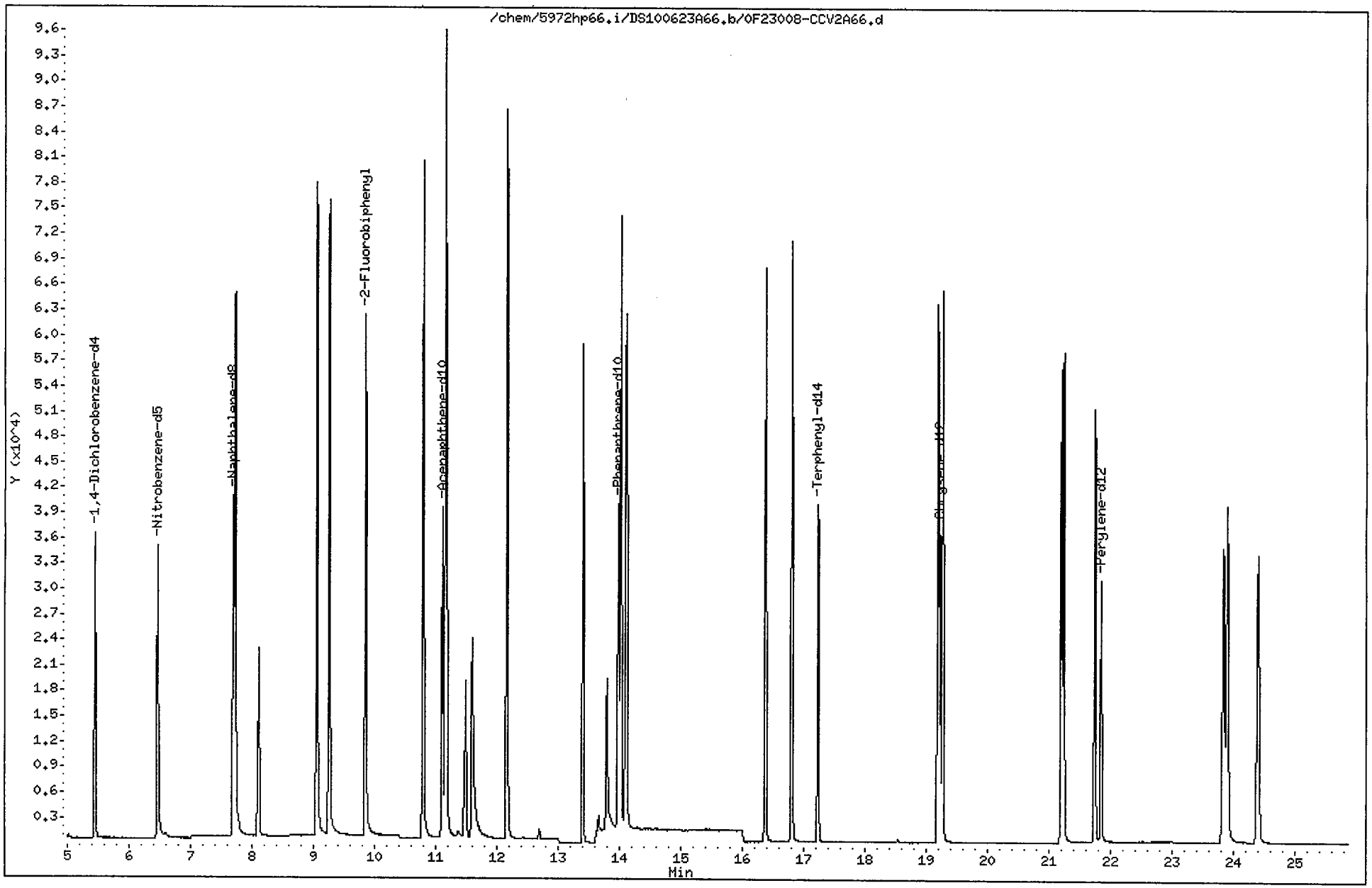
GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.1670000	1.1488424	0.01	-1.56	50.00	AVRG
2-Methylnaphthalene	0.6170000	0.6280943	0.01	1.80	50.00	AVRG
Acenaphthylene	2.0600000	1.9528873	0.01	-5.20	50.00	AVRG
Acenaphthene	1.0880000	1.1435053	0.01	5.10	20.00	AVRG
Fluorene	1.3940000	1.3571732	0.01	-2.64	50.00	AVRG
Phenanthrene	1.0940000	1.0736642	0.01	-1.86	50.00	AVRG
Anthracene	1.0130000	1.0307200	0.01	1.75	50.00	AVRG
Fluoranthene	1.0410000	1.0545895	0.01	1.30	20.00	AVRG
Pyrene	1.2150000	1.3619395	0.01	12.09	50.00	AVRG
Benzo(a)anthracene	0.9450000	1.0892129	0.01	15.26	50.00	AVRG
Chrysene	0.9760000	1.1003850	0.01	12.74	50.00	AVRG
Benzo(b)fluoranthene	1.1040000	1.2071821	0.01	9.35	50.00	AVRG
Benzo(k)fluoranthene	1.1980000	1.3465518	0.01	12.40	50.00	AVRG
Benzo(a)pyrene	1.0400000	1.1390416	0.01	9.52	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.9090000	0.9531834	0.01	4.86	50.00	AVRG
Dibenzo(a,h)anthracene	0.8820000	0.9029661	0.01	2.38	50.00	AVRG
Benzo(g,h,i)perylene	1.0000000	1.0022964	0.01	0.23	50.00	AVRG
Nitrobenzene-d5	0.4900000	0.4348537	0.01	-11.25	50.00	AVRG
2-Fluorobiphenyl	1.5840000	1.5372385	0.01	-2.95	50.00	AVRG
Terphenyl-d14	0.6220000	0.7044667	0.01	13.26	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100623A66.b/0F23008-CCV2A66.d
Date : 23-JUN-2010 11:50
Client ID: SSTD003GA
Sample Info: SSTD003GA:OWS
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: OWS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100623A66.b/0F23008-CCV2A66.d
Report Date: 23-Jun-2010 12:45

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100623A66.b/0F23008-CCV2A66.d
Lab Smp Id: 0F23008-CCV2 Client Smp ID: SSTD003GA
Inj Date : 23-JUN-2010 11:50
Operator : OWS Inst ID: 5972hp66.i
Smp Info : SSTD003GA:OWS
Misc Info : SSTD003GA
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100623A66.b/SIM_8270Cv3DOD.m
Meth Date : 23-Jun-2010 12:45 mweichel Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+EXTRAICAL.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.450	5.450	(1.000)	20244	2.00000	
*	2 Naphthalene-d8	136	7.694	7.694	(1.000)	61564	2.00000	
*	3 Acenaphthene-d10	164	11.105	11.105	(1.000)	32914	2.00000	
*	4 Phenanthrene-d10	188	13.979	13.979	(1.000)	57563	2.00000	
*	5 Chrysene-d12	240	19.212	19.212	(1.000)	46843	2.00000	
*	6 Perylene-d12	264	21.838	21.838	(1.000)	41659	2.00000	
$	7 2-Fluorophenol	112	Compound Not Detected.					
$	8 Phenol-d5	99	Compound Not Detected.					
$	9 Nitrobenzene-d5	82	6.460	6.460	(0.840)	40157	3.00000	2.7
$	10 2-Fluorobiphenyl	172	9.847	9.847	(0.887)	75895	3.00000	2.9
$	11 2,4,6-Tribromophenol	330	Compound Not Detected.					
$	12 Terphenyl-d14	244	17.226	17.226	(0.897)	49499	3.00000	3.4
	13 Naphthalene	128	7.729	7.729	(1.004)	106091	3.00000	3.0
	14 Hexachlorobutadiene	225	8.099	8.099	(1.053)	20675	3.00000	3.1
	15 2-Methylnaphthalene	141	9.050	9.050	(1.176)	58002	3.00000	3.1

MW 6/23/10

Data File: /chem/5972hp66.i/DS100623A66.b/0F23008-CCV2A66.d
Report Date: 23-Jun-2010 12:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
16 1-Methylnaphthalene	142	9.257	9.257	(1.203)	65169	3.00000	3.1
17 Acenaphthylene	152	10.793	10.793	(0.972)	96416	3.00000	2.8
18 Acenaphthene	154	11.163	11.163	(1.005)	56456	3.00000	3.2
20 4-Nitrophenol	139	11.591	11.591	(1.044)	40219	8.00000	7.1
21 Fluorene	166	12.160	12.160	(1.095)	67005	3.00000	2.9
23 Hexachlorobenzene	284	13.399	13.399	(0.958)	68269	8.00000	8.9
24 Pentachlorophenol	266	13.794	13.794	(0.987)	25968	8.00000	6.5
25 Phenanthrene	178	14.014	14.014	(1.002)	92705	3.00000	2.9
26 Anthracene	178	14.106	14.106	(1.009)	88997	3.00000	3.1
27 Fluoranthene	202	16.369	16.369	(1.171)	91058	3.00000	3.0
28 Pyrene	202	16.793	16.793	(0.874)	95696	3.00000	3.4
29 Benzo(a)anthracene	228	19.181	19.181	(0.998)	76533	3.00000	3.5
30 Chrysene	228	19.260	19.260	(1.003)	77318	3.00000	3.4
31 Benzo(b)fluoranthene	252	21.189	21.189	(0.970)	75435	3.00000	3.3
32 Benzo(k)fluoranthene	252	21.229	21.229	(0.972)	84144	3.00000	3.4
33 Benzo(a)pyrene	252	21.732	21.732	(0.995)	71177	3.00000	3.3
34 Indeno(1,2,3-cd)pyrene	276	23.821	23.821	(1.091)	59563	3.00000	3.1
35 Dibenzo(a,h)anthracene	278	23.883	23.883	(1.094)	56425	3.00000	3.1
36 Benzo(g,h,i)perylene	276	24.386	24.386	(1.117)	62632	3.00000	3.0

MW 6/23/10

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 6/23/10 INITIAL TIME OF TUNE 1146 SHIFT/S (A) ✓ (B)____ (C)____
TIME TUNE EXPIRES 2346
METHOD: 625 (8270C) 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y)N)
PREVENTIVE MAINTENANCE

	SEQUENCE#	REJECTED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OF23008		OF23008-TUNIA066	/	6/23/10	1055	DFTPPGA	—	2µL	OWS	SCD=LCD
2	S1006023A		↓ -CCV1A066	us	/ /	1115	SSTD003GA	—	↓		
3			N/A	/	/ /	1146	FC43	—	N/A		
4			OF23008-CCV2A066	/	/ /	1150	SSTD003GA	—	2µL		
5			00601163-BLK1JA066	/	/ /	1230	SBLKDY	1005130			
6			↓ -BS1JA066	/	/ /	1304	SDYLCS				
7			1005130-05RE1JA066	/	/ /	1338	SS49-0-1				
8			↓ -06RE1JA066	1H	/ /	1412	SB49-11-12				
9			↓ -11RE1JA066	1H	/ /	1447	SB11-11-12	↓			
10			MOCK1A066	/	/ /	1619	MOCK1	—			
11			Mock2A66	/	/ /	1653	mock2	—			
12			1005130-06RE1J2A66	/	/ /	1728	SB49-11-12	1005130			
13			↓ -11RE1J2A066	SL	/ /	1802	SB11-11-12	↓	↓	↓	in house limits
14			↓ -12RE1JA066	/	/ ↓ /	1836	SB48 7-8	↓	↓	↓	
15					/ /						
16					/ /						
17					/ /						
18					/ /						
19					/ /						
20					/ /						
21					/ /						
22					/ /						
23					/ /						
24					/ /						

MN 6/24/10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: 0F18002 8/18/10
Internal STD Lot#/Exp. Date: 040 0F18001 11/18/10
Methylene Chloride Lot#/Exp. Date: J17S00 6/8/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: OWS DATE 6-24-10

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Instrument ID: 5972HP66 Calibration Date: 06/24/10 Time: 1439

Lab File ID: 0F24005-CCV1A6 Init. Calib. Date(s): 06/20/10 06/20/10

Init. Calib. Times: 0850 1107

GC Column: RTX-5MS ID: 0.32 (mm)

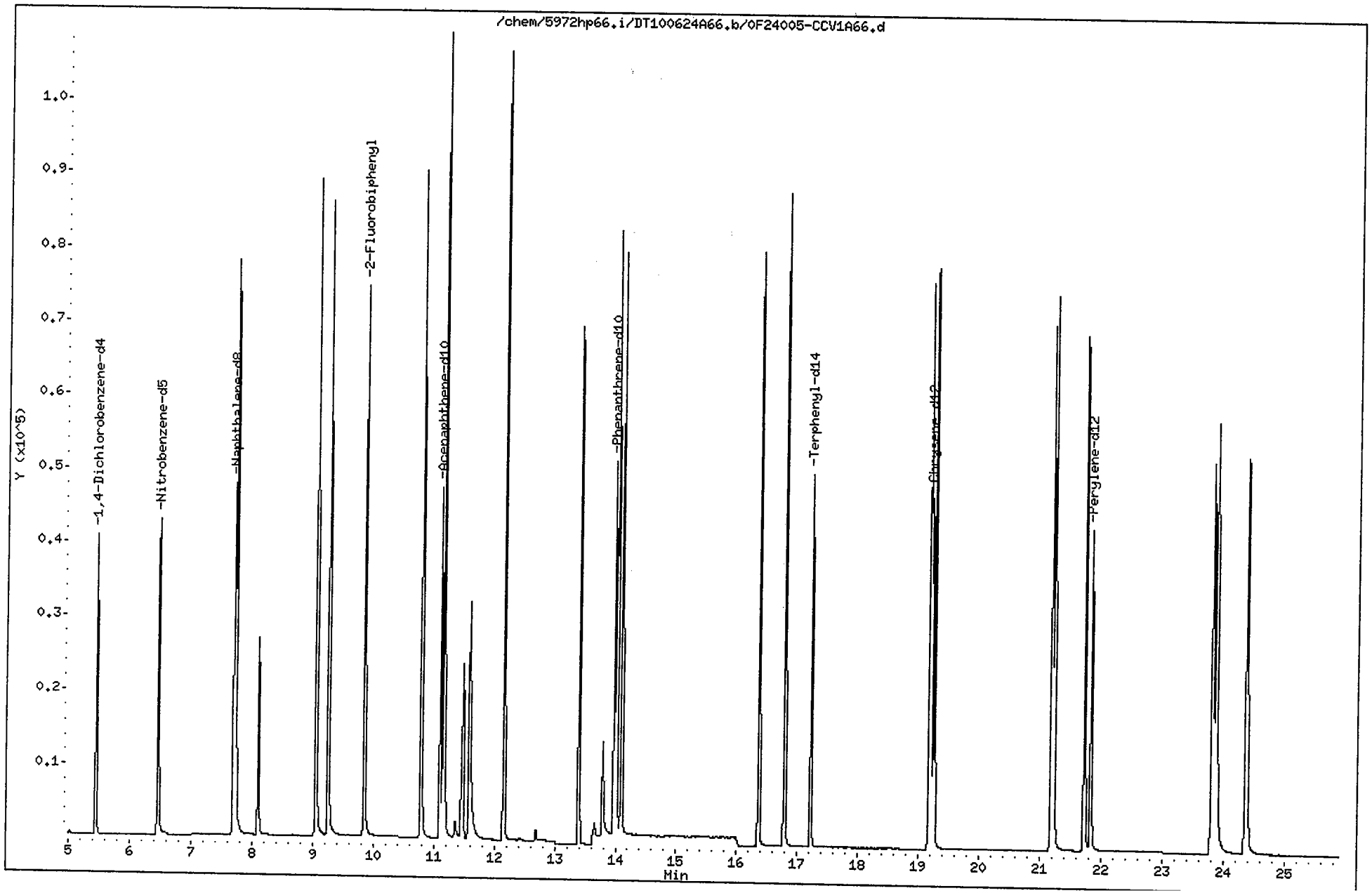
COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.1670000	1.1023452	0.01	-5.54	50.00	AVRG
2-Methylnaphthalene	0.6170000	0.6007508	0.01	-2.63	50.00	AVRG
Acenaphthylene	2.0600000	1.8987199	0.01	-7.83	50.00	AVRG
Acenaphthene	1.0880000	1.1066148	0.01	1.71	20.00	AVRG
Fluorene	1.3940000	1.3539235	0.01	-2.87	50.00	AVRG
Phenanthrene	1.0940000	1.0394370	0.01	-4.99	50.00	AVRG
Anthracene	1.0130000	0.9657501	0.01	-4.66	50.00	AVRG
Fluoranthene	1.0410000	1.0458867	0.01	0.47	20.00	AVRG
Pyrene	1.2150000	1.2639677	0.01	4.03	50.00	AVRG
Benzo(a)anthracene	0.9450000	1.0339118	0.01	9.41	50.00	AVRG
Chrysene	0.9760000	1.0806623	0.01	10.72	50.00	AVRG
Benzo(b)fluoranthene	1.1040000	1.1185829	0.01	1.32	50.00	AVRG
Benzo(k)fluoranthene	1.1980000	1.2746516	0.01	6.40	50.00	AVRG
Benzo(a)pyrene	1.0400000	1.0981073	0.01	5.59	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.9090000	1.0150590	0.01	11.67	50.00	AVRG
Dibenzo(a,h)anthracene	0.8820000	0.9971697	0.01	13.06	50.00	AVRG
Benzo(g,h,i)perylene	1.0000000	1.1382532	0.01	13.82	50.00	AVRG
Nitrobenzene-d5	0.4900000	0.4533648	0.01	-7.48	50.00	AVRG
2-Fluorobiphenyl	1.5840000	1.4764379	0.01	-6.79	50.00	AVRG
Terphenyl-d14	0.6220000	0.6738952	0.01	8.34	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DT100624A66.b/0F24005-CCV1A66.d
Date : 24-JUN-2010 14:39
Client ID: SSTD003GB
Sample Info: SSTD003GB:MEW
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i

Operator: MEW
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100624A66.b/0F24005-CCV1A66.d
Report Date: 24-Jun-2010 16:18

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100624A66.b/0F24005-CCV1A66.d
Lab Smp Id: 0F24005-CCV1 Client Smp ID: SSTD003GB
Inj Date : 24-JUN-2010 14:39
Operator : MEW Inst ID: 5972hp66.i
Smp Info : SSTD003GB:MEW
Misc Info : SSTD003GB
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100624A66.b/SIM_8270Cv3DOD.m
Meth Date : 24-Jun-2010 16:18 mweichel Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH+EXTRAICAL.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.451	5.451	(1.000)	22670	2.00000	
* 2 Naphthalene-d8	136	7.694	7.694	(1.000)	71920	2.00000	
* 3 Acenaphthene-d10	164	11.104	11.104	(1.000)	38303	2.00000	
* 4 Phenanthrene-d10	188	13.968	13.968	(1.000)	68117	2.00000	
* 5 Chrysene-d12	240	19.204	19.204	(1.000)	60962	2.00000	
* 6 Perylene-d12	264	21.824	21.824	(1.000)	58769	2.00000	
$ 7 2-Fluorophenol	112	Compound Not Detected.					
$ 8 Phenol-d5	99	Compound Not Detected.					
$ 9 Nitrobenzene-d5	82	6.461	6.461	(0.840)	48909	3.00000	2.8
$ 10 2-Fluorobiphenyl	172	9.846	9.846	(0.887)	84828	3.00000	2.8
$ 11 2,4,6-Tribromophenol	330	Compound Not Detected.					
$ 12 Terphenyl-d14	244	17.217	17.217	(0.897)	61623	3.00000	3.3
13 Naphthalene	128	7.718	7.718	(1.003)	118921	3.00000	2.8
14 Hexachlorobutadiene	225	8.099	8.099	(1.053)	24176	3.00000	3.1
15 2-Methylnaphthalene	141	9.048	9.048	(1.176)	64809	3.00000	2.9

MW 6/24/10

Data File: /chem/5972hp66.i/DT100624A66.b/0F24005-CCV1A66.d
Report Date: 24-Jun-2010 16:18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
16 1-Methylnaphthalene	142	9.251	9.251	(1.202)	72331	3.00000	2.9
17 Acenaphthylene	152	10.792	10.792	(0.972)	109090	3.00000	2.8
18 Acenaphthene	154	11.162	11.162	(1.005)	63580	3.00000	3.1
20 4-Nitrophenol	139	11.586	11.586	(1.043)	49115	8.00000	7.4
21 Fluorene	166	12.154	12.154	(1.095)	77789	3.00000	2.9
23 Hexachlorobenzene	284	13.397	13.397	(0.959)	82318	8.00000	9.0
24 Pentachlorophenol	266	13.783	13.783	(0.987)	18056	8.00000	3.8
25 Phenanthrene	178	14.014	14.014	(1.003)	106205	3.00000	2.9
26 Anthracene	178	14.095	14.095	(1.009)	98676	3.00000	2.9
27 Fluoranthene	202	16.366	16.366	(1.172)	106864	3.00000	3.0
28 Pyrene	202	16.789	16.789	(0.874)	115581	3.00000	3.1
29 Benzo(a)anthracene	228	19.173	19.173	(0.998)	94544	3.00000	3.3
30 Chrysene	228	19.253	19.253	(1.003)	98819	3.00000	3.3
31 Benzo(b)fluoranthene	252	21.176	21.176	(0.970)	98607	3.00000	3.0
32 Benzo(k)fluoranthene	252	21.220	21.220	(0.972)	112365	3.00000	3.2
33 Benzo(a)pyrene	252	21.718	21.718	(0.995)	96802	3.00000	3.2
34 Indeno(1,2,3-cd)pyrene	276	23.804	23.804	(1.091)	89481	3.00000	3.3
35 Dibenzo(a,h)anthracene	278	23.866	23.866	(1.094)	87904	3.00000	3.4
36 Benzo(g,h,i)perylene	276	24.365	24.365	(1.116)	100341	3.00000	3.4

MW 6/24/10

500

GC/MS SEMIVOLATILE RUN LOG — Analytical Corp.
LOGBOOK 4X(4) 21 (5972hp66)

DATE 6/24/10 INITIAL TIME OF TUNE 1351 SHIFT/S (A) ____ (B) ____ (C) ____
TIME TUNE EXPIRES 0151
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM (Y/N)
PREVENTIVE MAINTENANCE front, liner, septum

	SEQUENCE#	REJECTED	FILENAME	REJECTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OF24005	MN 6/24/10	~~OF24005 Tu~~ N/A	/	6/24/10	1351	FC43	—	N/A	MEW	SCD=LCD
2	T100624A		OF24005-TUNIA606	/		MN 6/24/10 1357	DFTPPGB	—	2µL		
3			↓ -CCV1A606	/		1439	SSTD003GB	—			
4			1005130-15RJA606	/		1514	SB18-12-13	1005130			
5		/	-16RJA606	IL		1548	SS25-0-1				
6			-19RJA606	/		1623	SB08-6-7				
7		/	-16RJ2A606	IL		1657	SS25-0-1				JS
8			-20RJA606	/		1731	SS05-0-1				
9			↓ -07RJA606	/		1806	SS50-0-1				
10		/	00601163-MS1JA606	SH		1840	SS50-0-1MS				
11		/	↓ -MSD1JA606	SH		1915	SS50-0-1MSD	↓			
12		/	1005133-02JA606	IH		1949	SB74-4-5	1005133			
13			-04JA606	/		2024	SB75-3.5-4.5				
14			-06A66	/		2058	SB63-5.5-6.5				
15		/	-07A66	SH		2132	SS61-0-1				no hits
16		/	-08A66	SH		2207	SS61D-0-1				↓
17		/	-09A66	SH	MN 6/25/10	2241	SB61-6-7				↓
18		/	-10A66	IL SH		2315	SB61D-6-7				
19		/	-11A66	SH		2349	SS67-0-1				
20			-12A66	/	↓	0023	SS72-0-1				
21		/	-13A66	SH	6/25/10	0058	SB72-2-3				
22		/	↓ -14A66	SH	↓	0132	SS88-0-1	↓	↓	↓	
~~23~~											
24											B6-25-10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: OF18002 8/18/10
Internal STD Lot#/Exp. Date: OF18001 11/18/10
Methylene Chloride Lot#/Exp. Date: J17500 6/8/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: BVS DATE 6-24-10

4. Raw QC Data

   a. FC43 data

   b. Blank Data

   c. Laboratory Control Sample Data

   d. Matrix Spike Data

   e. Matrix Spike Duplicate Data

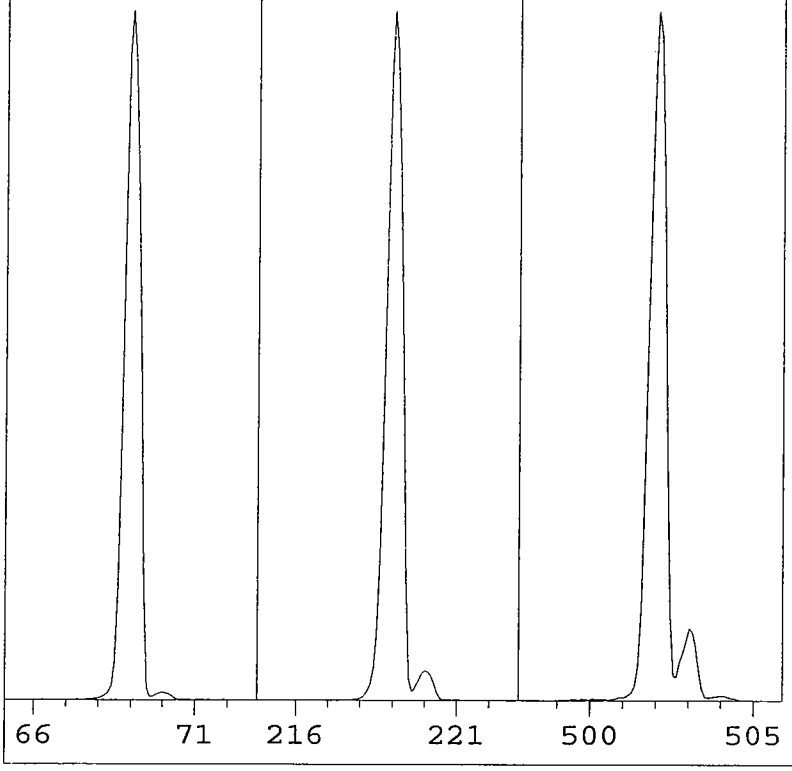
a. FC43 (Calibration Gas)

PFTBA (Perfluoro-tri-n-butylamine) scan,
showing the relative abundance of the
key ions (69, 219, and 502)
and the Instrument Operating Conditions

HP5972

Instrument: GC/MS Instrument #1
Tue May 25 05:59:20 2010 C:\HPCHEM\1\5972\SIM.U

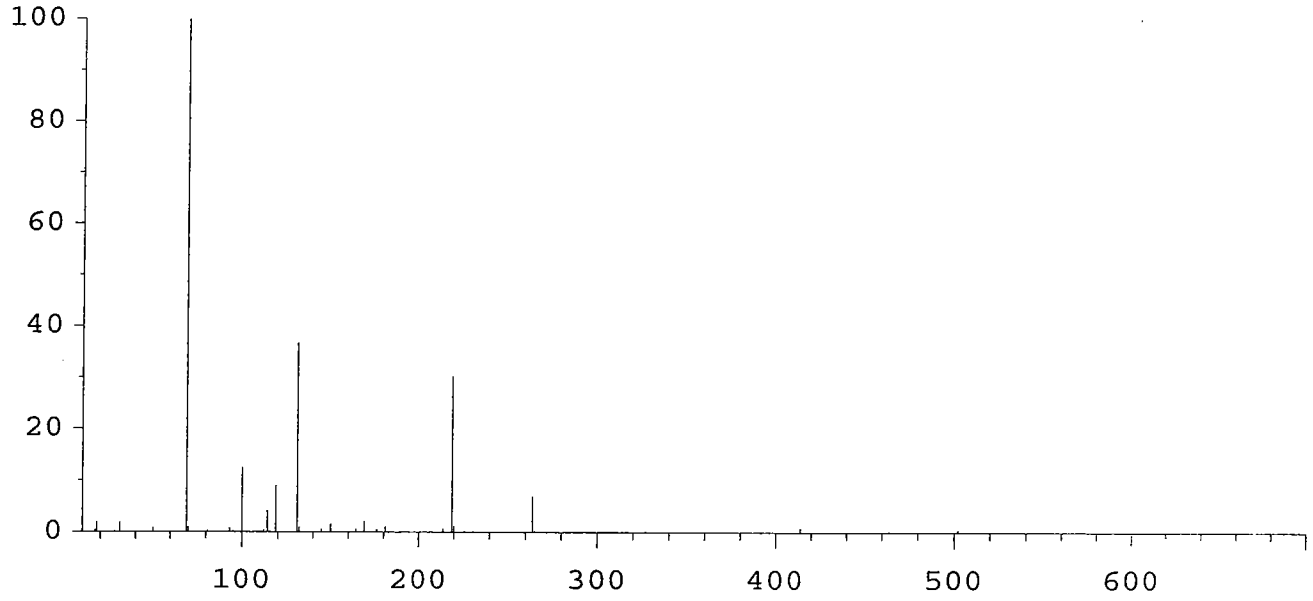
Mass	69.00	Mass	218.95	Mass	502.00
Ab	3135709	Ab	844056	Ab	15005
Pw50	0.56	Pw50	0.56	Pw50	0.58



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	181	TTI	OFF
Vacuum	53	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
189 peaks Base: 69.00 Abundance: 2428928

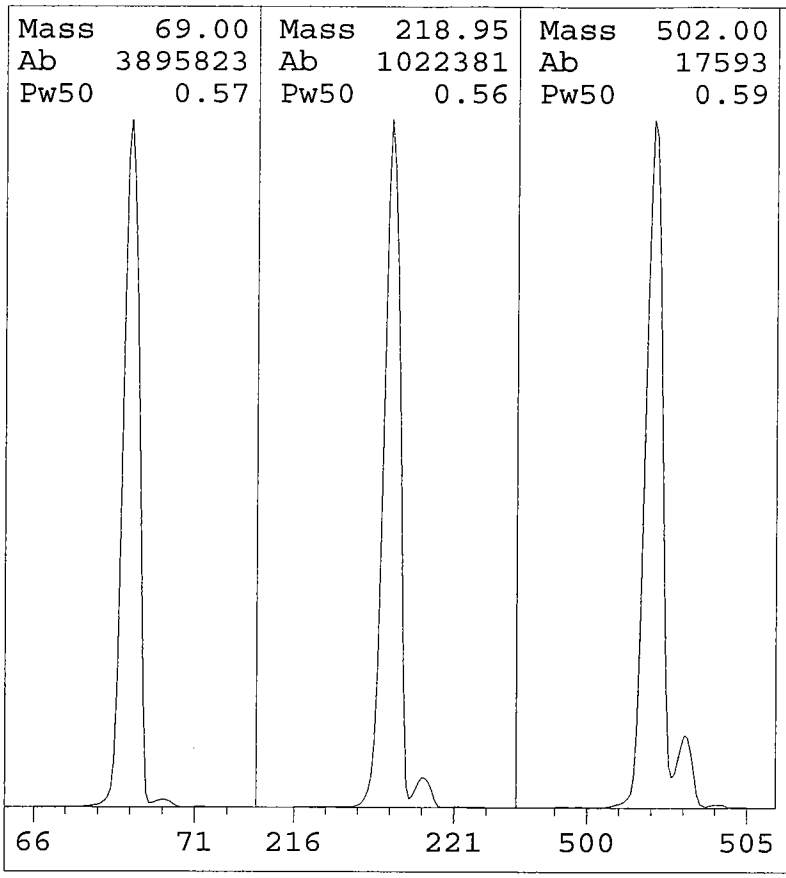


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2428928	100.00	69.95	25704	1.06
218.95	736000	30.30	220.00	32008	4.35
502.00	13063	0.54	503.00	1355	10.37

HP5972

Instrument: GC/MS Instrument #1
Mon May 31 00:44:22 2010

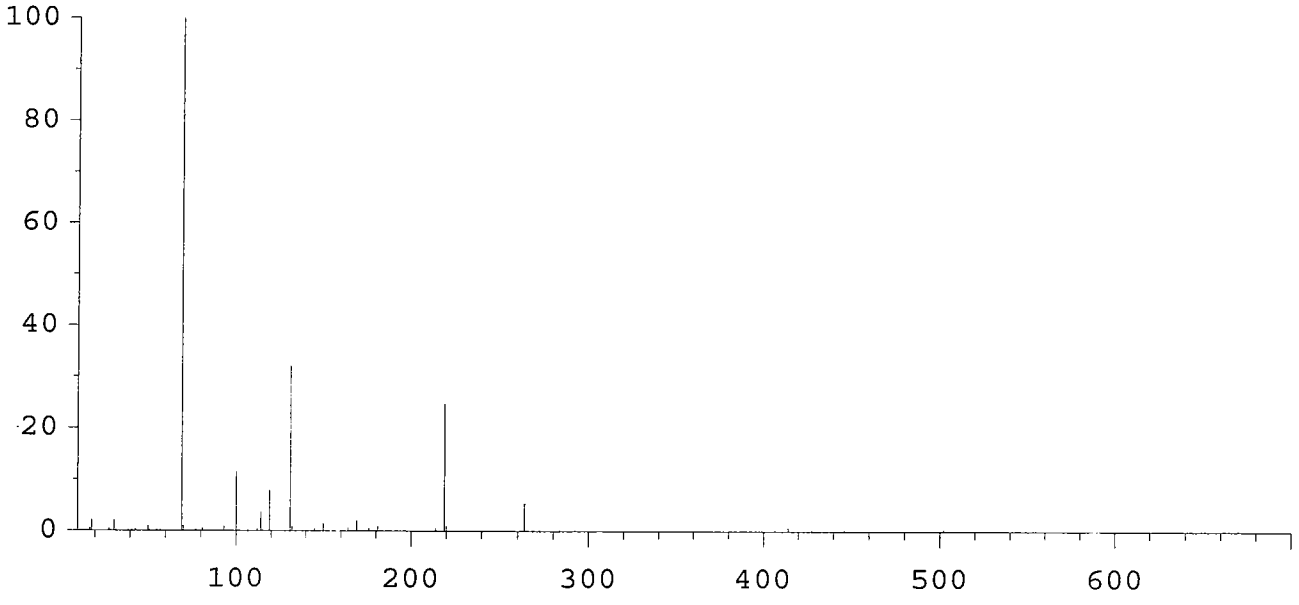
C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.001
MS Temp	183	TTI	OFF
Vacuum	39	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

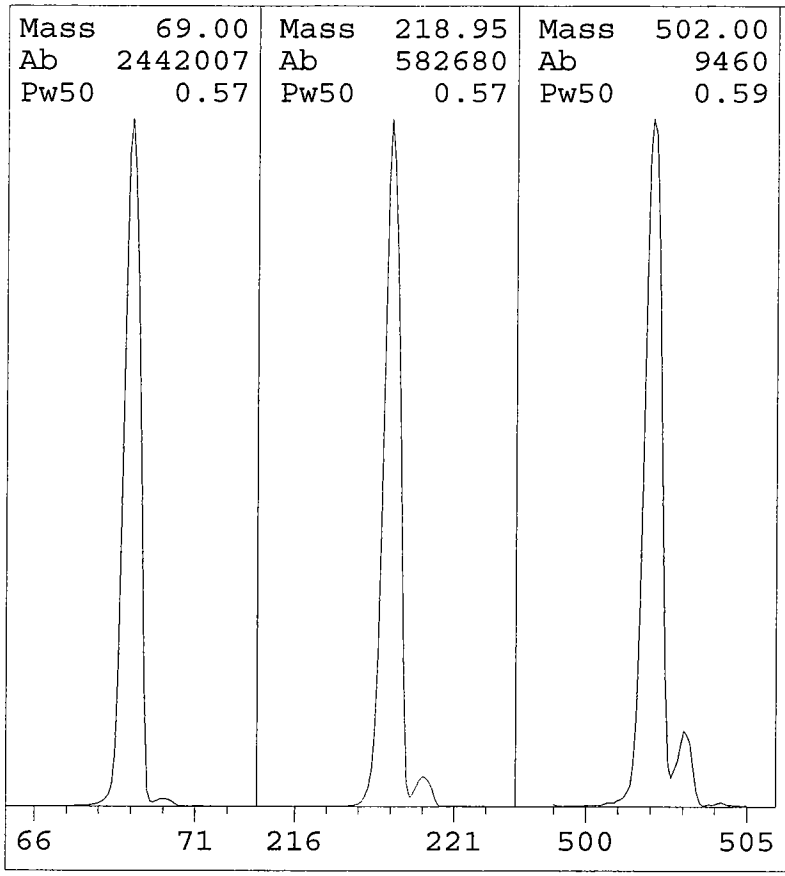
Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
304 peaks Base: 69.00 Abundance: 3431424



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	3431424	100.00	69.95	39816	1.16
218.95	850496	24.79	220.00	36976	4.35
502.00	15291	0.45	503.10	1499	9.80

Instrument: GC/MS Instrument #1
Mon May 31 23:39:42 2010

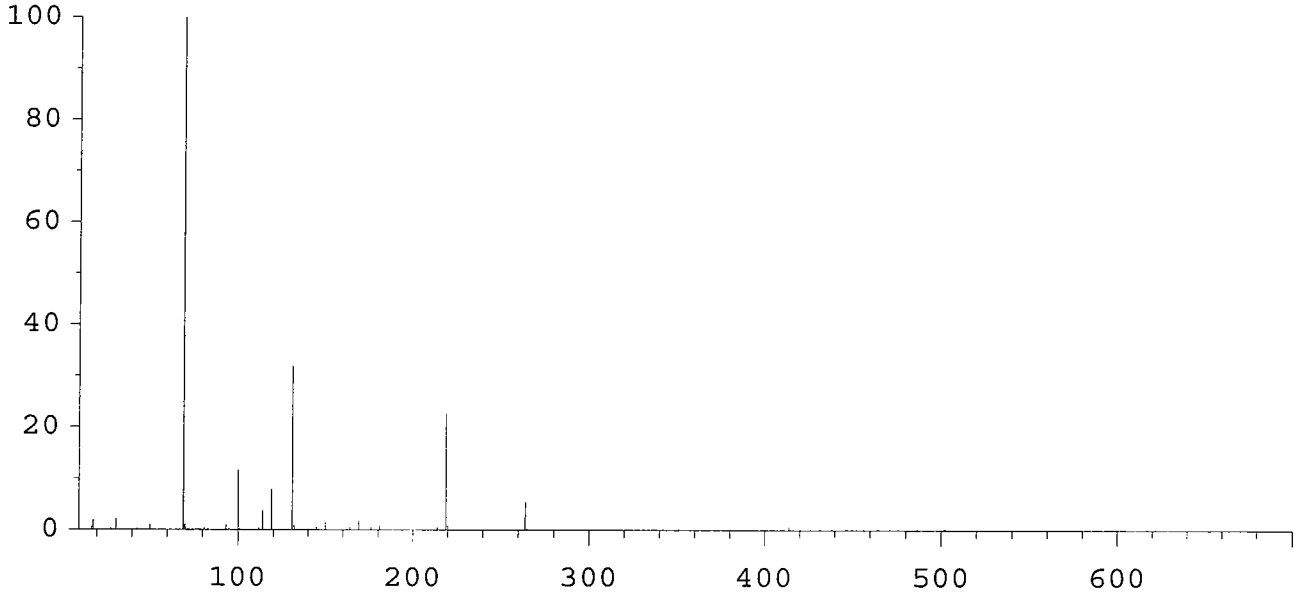
C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.001
MS Temp	183	TTI	OFF
Vacuum	54	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

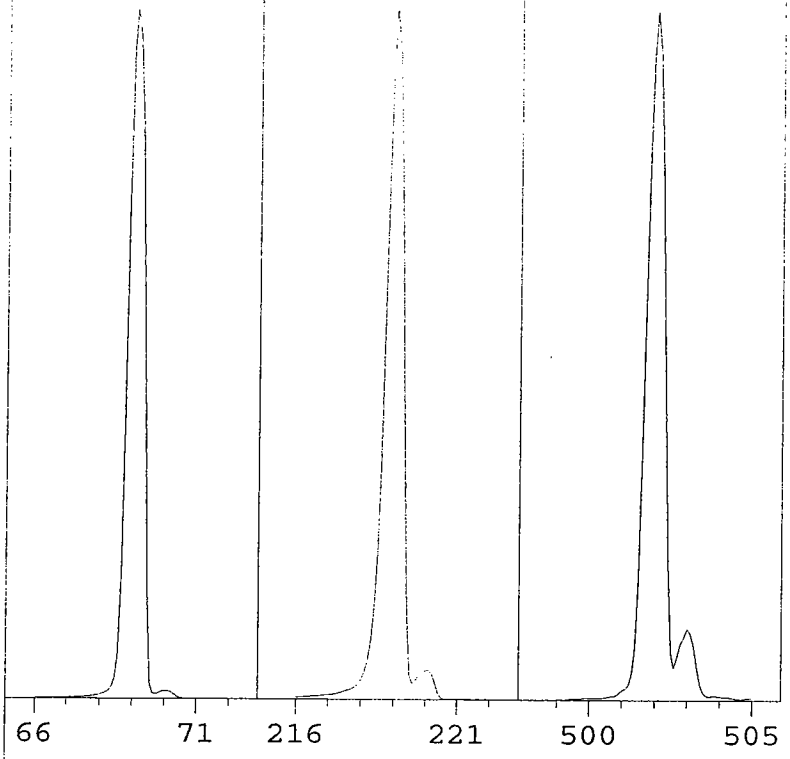
PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
280 peaks Base: 69.00 Abundance: 2083328



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2083328	100.00	69.95	25128	1.21
218.95	473152	22.71	220.00	20072	4.24
502.00	8261	0.40	503.00	844	10.22

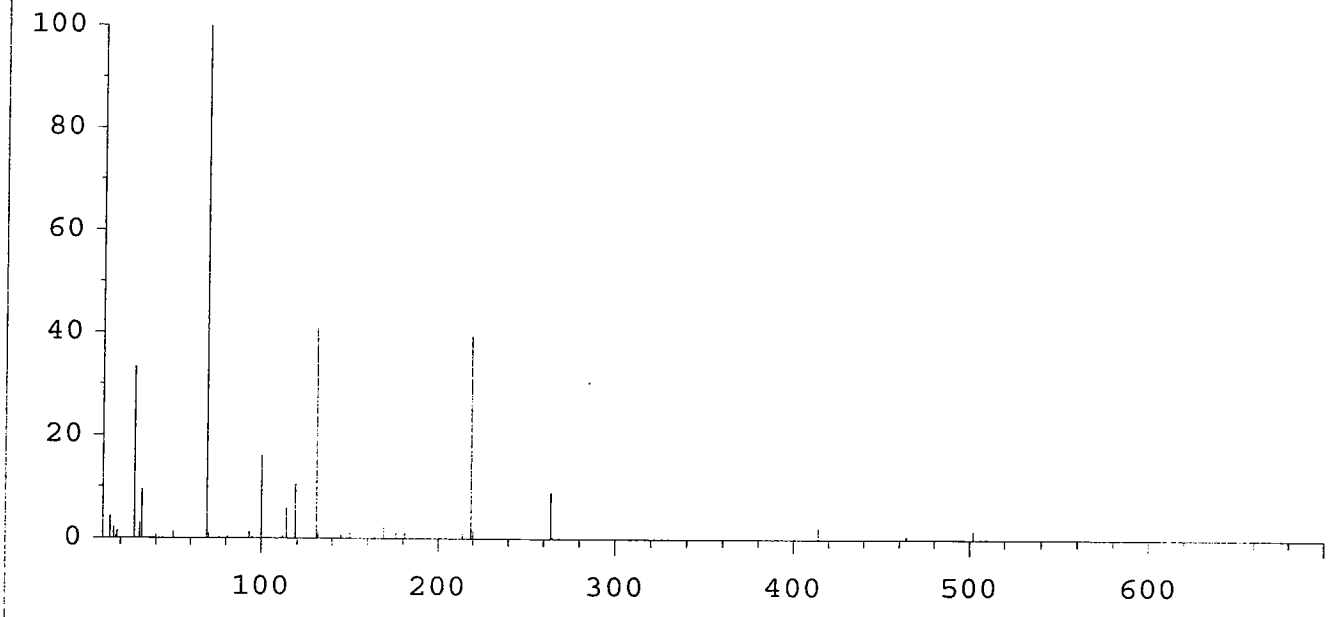
Mass	69.00	Mass	218.95	Mass	502.00
Ab	1168318	Ab	478250	Ab	20208
Pw50	0.58	Pw50	0.60	Pw50	0.63



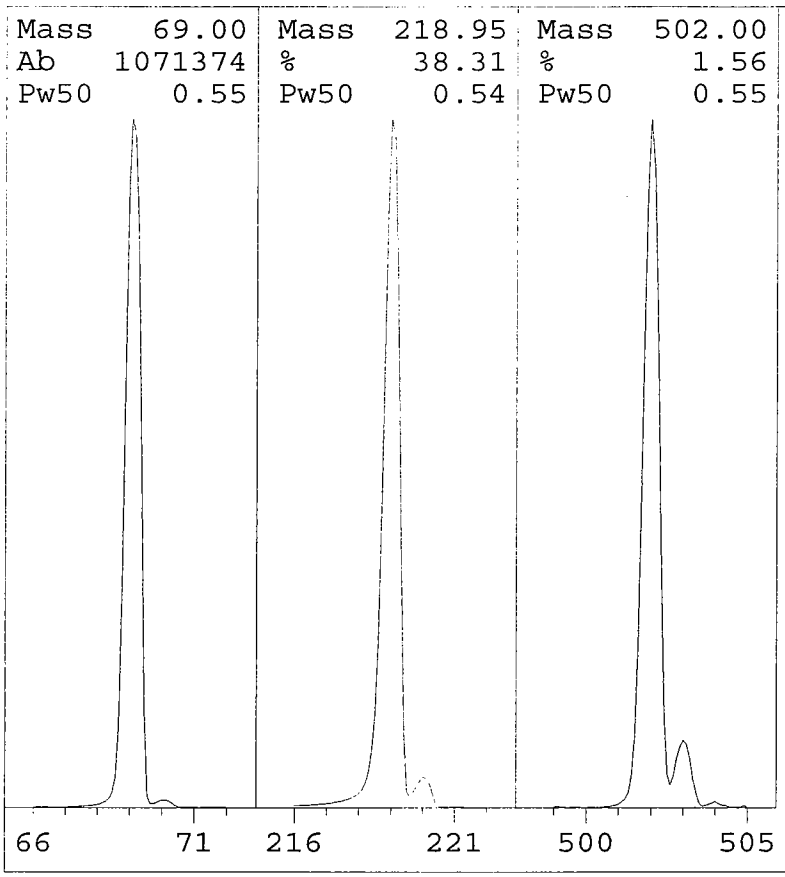
EMVolts	2118	AmuGain	184
Xray	47.0	AmuOffs	69
Emission	35.0	Wid219	-0.012
MS Temp	171	TTI	OFF
Vacuum	52	DC Pol	POS
Samples	8	Repeller	24.86
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	0.00
MassGain	-957	EntOffs	VAR
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
231 peaks Base: 69.00 Abundance: 994176



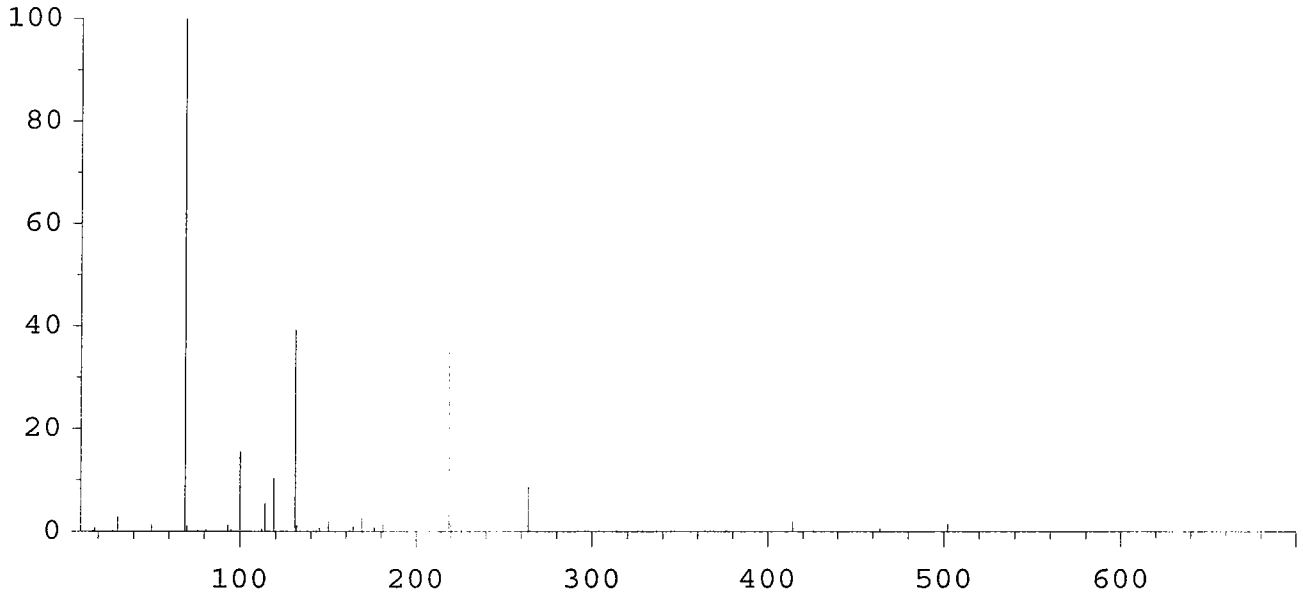
Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	994176	100.00	70.00	11101	1.12
218.95	392576	39.49	219.95	16976	4.32
502.00	17808	1.79	502.95	1624	9.12



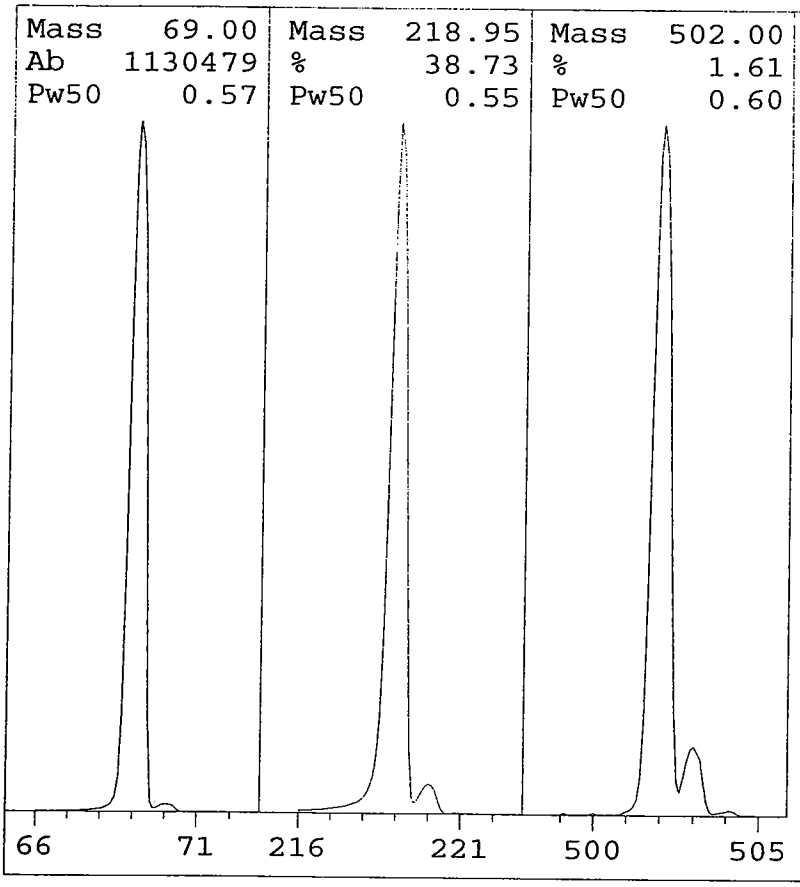
EMVolts	2129	AmuGain	186
Xray	47.0	AmuOffs	69
Emission	35.0	Wid219	-0.024
MS Temp	175	TTI	OFF
Vacuum	50	DC Pol	POS
Samples	8	Repeller	24.86
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	0.00
MassGain	-957	EntOffs	VAR
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
201 peaks Base: 69.00 Abundance: 884736



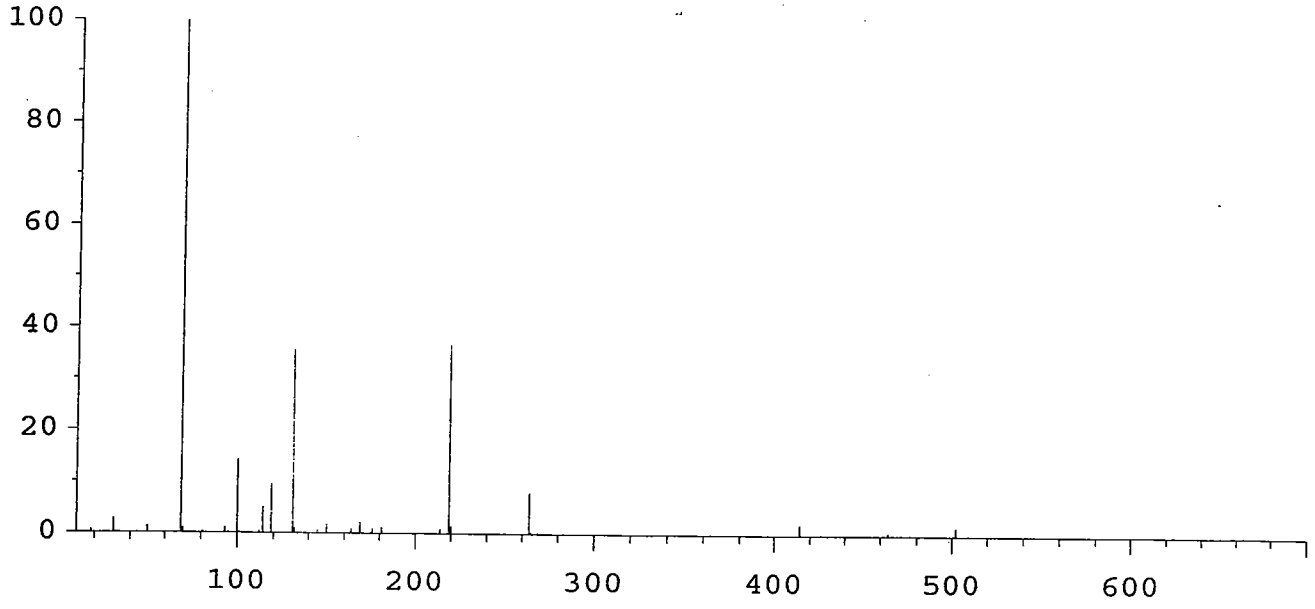
Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	884736	100.00	70.10	10403	1.18
218.95	331968	37.52	219.95	14456	4.35
502.00	14014	1.58	502.95	1387	9.90



EMVolts	2129	AmuGain	186
Xray	47.0	AmuOffs	68
Emission	35.0	Wid219	-0.024
MS Temp	171	TTI	OFF
Vacuum	48	DC Pol	POS
Samples	8	Repeller	24.86
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	1.51
MassGain	-957	EntOffs	VAR
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
197 peaks Base: 69.00 Abundance: 982848



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	982848	100.00	70.10	10659	1.08
218.95	361600	36.79	219.95	15861	4.39
502.00	16784	1.71	502.95	1767	10.53

b. Blank Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report.

- Target compound spectra with lab-generated standard spectra.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SBLKBK

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051831-BLK1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051831-BLK1J2C66
Analyst: 2743

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

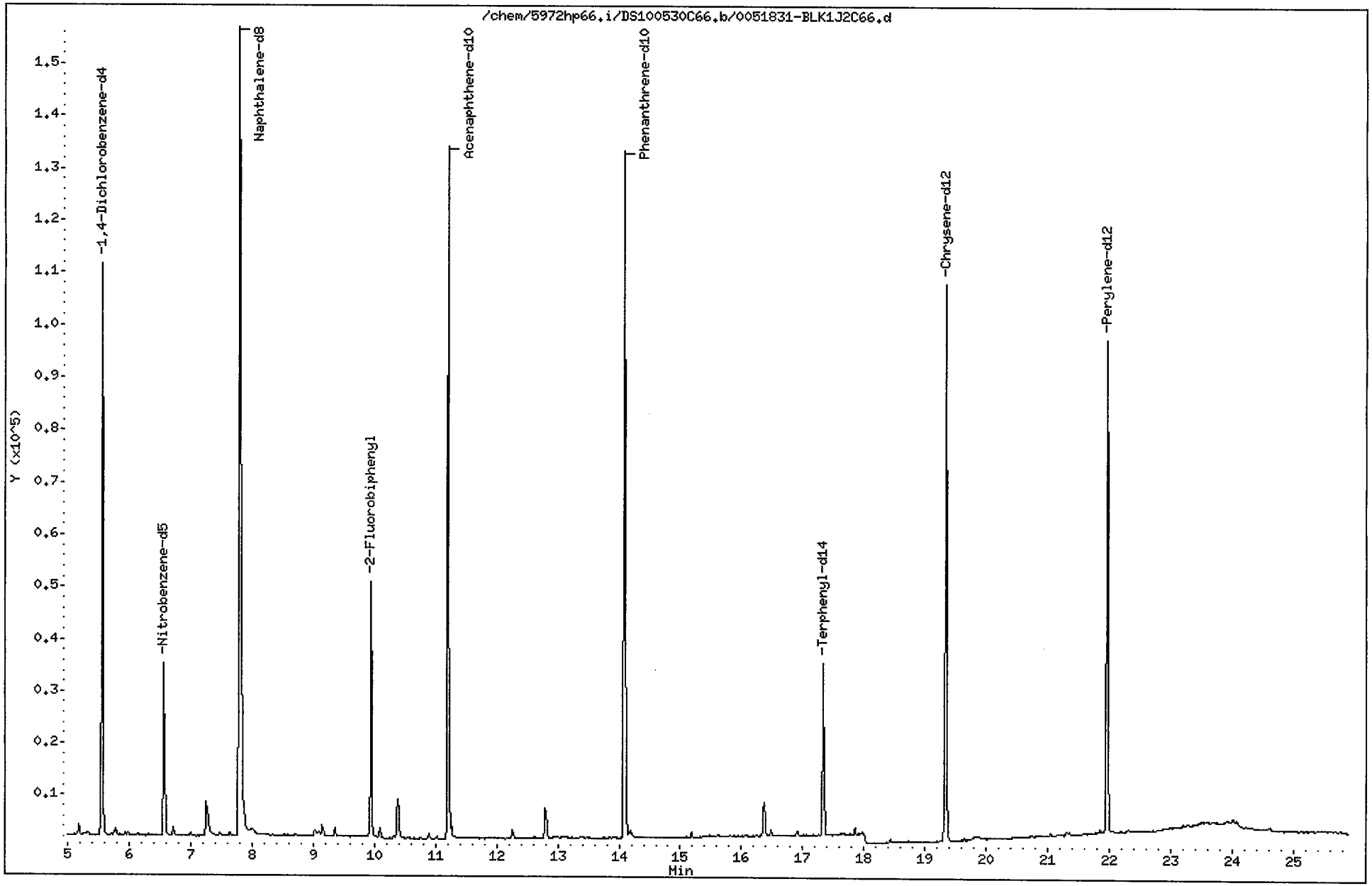
Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	ND	U
91-57-6	2-Methylnaphthalene	0.68	8.3	ND	U
208-96-8	Acenaphthylene	0.53	8.3	ND	U
83-32-9	Acenaphthene	0.60	8.3	ND	U
86-73-7	Fluorene	0.45	8.3	ND	U
85-01-8	Phenanthrene	1.3	8.3	ND	U
120-12-7	Anthracene	0.43	8.3	ND	U
206-44-0	Fluoranthene	1.3	8.3	ND	U
129-00-0	Pyrene	0.57	8.3	ND	U
56-55-3	Benzo(a)anthracene	0.57	8.3	ND	U
218-01-9	Chrysene	0.63	8.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.57	8.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.43	8.3	ND	U
50-32-8	Benzo(a)pyrene	0.38	8.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100530C66.b/0051831-BLK1J2C66.d
Date : 31-MAY-2010 02:54
Client ID: SBLKBK
Sample Info: 0051831-BLK1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/0051831-BLK1J2C66.d
Report Date: 02-Jun-2010 11:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/0051831-BLK1J2C66.d
Lab Smp Id: 0051831-BLK1 Client Smp ID: SBLKBK
Inj Date : 31-MAY-2010 02:54
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0051831-BLK1:2743
Misc Info : SBLKBK
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:43 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.561	5.543	(1.000)	63419	2.00000		(a)
*	2 Naphthalene-d8	136	7.790	7.785	(1.000)	223929	2.00000		(a)
*	3 Acenaphthene-d10	164	11.205	11.206	(1.000)	95185	2.00000		(a)
*	4 Phenanthrene-d10	188	14.088	14.087	(1.000)	173178	2.00000		(a)
*	5 Chrysene-d12	240	19.327	19.336	(1.000)	139562	2.00000		(a)
*	6 Perylene-d12	264	21.961	21.960	(1.000)	122774	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.565	6.547	(0.843)	34790	0.69820	12	
$	10 2-Fluorobiphenyl	172	9.941	9.936	(0.887)	47019	0.47337	7.9	
$	12 Terphenyl-d14	244	17.335	17.334	(0.897)	39306	0.77513	13	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100530C66.b/0051831-BLK1J2C66.d
Report Date: 02-Jun-2010 11:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

EXTRACTION WORKSHEET

Low Level Soil S-V Method 3550B for 8270C

ASSIGNED TO: B. Patterson

EMP ID NUMBER: 2713

CompuChem

176 SIM

5-19-2

DATE/TIME EXTRACTED: 5-19-10 1045

BATCH NO. 0051831

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE WEIGHT (g)	FINAL VOLUME (ml)	COMMENTS
1	0051831-BLK1	SBLKBK	MB	30.0	1.0	B. Patterson 5-19-10
2	0051831-BS1	SBKLCS	LCS	30.0	1.0	
3	0051831-MS1	SS50-0-1MS	MS	30.0	1.0	GPC (3640A) PERFORMED Y (N)
4	0051831-MSD1	SS50-0-1MSD	MSD	30.0	1.0	
5	1005130-01	SS23-00-01	SAMPLE	30.0	1.0	
6	1005130-02	SB23-1.5-2	SAMPLE	30.0	1.0	
7	1005130-03	SS24-0-1	SAMPLE	30.0	1.0	B. Patterson 5-19-10
8	1005130-04	SB24-3-4	SAMPLE	30.0	1.0	
9	1005130-05	SS49-0-1	SAMPLE	30.0	1.0	
10	1005130-06	SB49-11-12	SAMPLE	30.0	1.0	
11	1005130-07	SS50-0-1	SAMPLE	30.0	1.0	QC
12	1005130-08	SB47-14-15	SAMPLE	30.0	1.0	
13	1005130-09	SS47-0-1	SAMPLE	30.0	1.0	
14	1005130-10	SS11-0-1	SAMPLE	30.0	1.0	
15	1005130-11	SB11-11-12	SAMPLE	30.0	1.0	
16	1005130-12	SB48-7-8	SAMPLE	30.0	1.0	
17	1005130-13	SS48-0-1	SAMPLE	30.0	1.0	
18	1005130-14	SS18-0-1	SAMPLE	30.0	1.0	5-19-10
19	1005130-15	SB18-12-13	SAMPLE	30.0	1.0	B. Patterson
20	1005130-16	SS25-0-1	SAMPLE	30.0	1.0	
21	1005130-17	SB25-3-4	SAMPLE	30.0	1.0	
22	1005130-18	SS08-0-1	SAMPLE	30.0	1.0	
23	1005130-19	SB08-6-7	SAMPLE	30.0	1.0	
24	1005130-20	SS05-0-1	SAMPLE	30.0	1.0	
25						
26		B. Patterson	5-19-10			

		S VOL	Others
SURROGATE	NO.	DIL. 393	
	AMT.	0.5 ml	
	LOT	62924	
SPIKE	NO.		SIM VALID. SPK
	AMT.		0.5 mL
	LOT		082109-03

FINAL VOLUME VERIFIED: B. Patterson

REVIEWED BY:

SURROGATE & SPIKE ADDED BY: BFP / 5-19-10
Initials Date

Witness AN / 5-19-10
Initials Date

Analyst initials. Extracted BFP KD VB, AL N2 ~~MW~~/AJL Bottle up BFP

Balance ID: Sartorius BL310

Manufacturer and lot number of reagents/solvents used 50/50 CH_2Cl_2/CH_3COCH_3 - ZXX8-649-3, Na_2SO_4 - ZXX8-648-4, CH_2Cl_2 - J17500

12/29/09: RM

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SBLKDY

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0060163-BLK1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0060163-BLK1JA66
Analyst: OWS

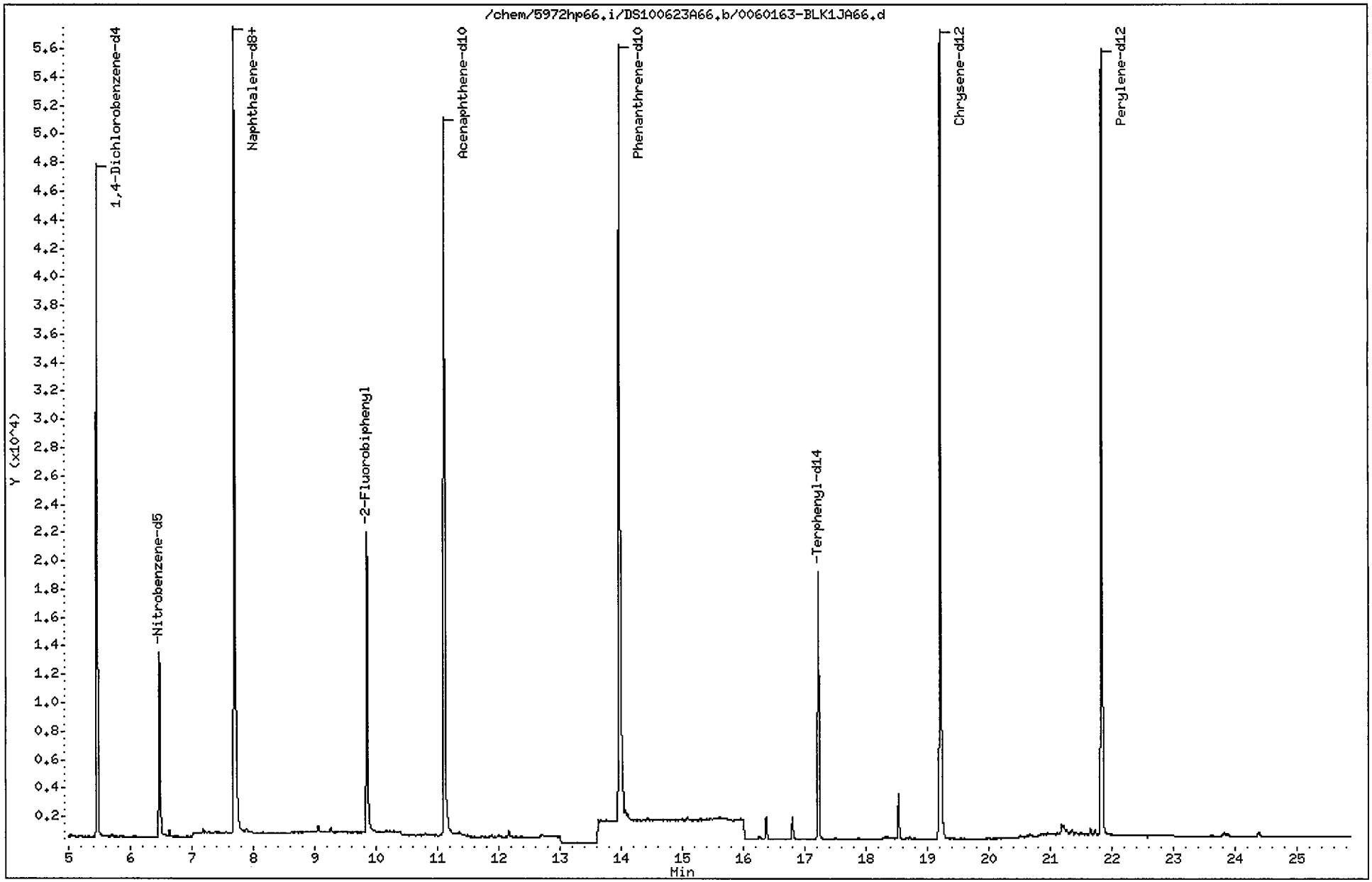
% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	1.3	J
91-57-6	2-Methylnaphthalene	0.68	8.3	ND	U
208-96-8	Acenaphthylene	0.53	8.3	ND	U
83-32-9	Acenaphthene	0.60	8.3	ND	U
86-73-7	Fluorene	0.45	8.3	ND	U
85-01-8	Phenanthrene	1.3	8.3	ND	U
120-12-7	Anthracene	0.43	8.3	ND	U
206-44-0	Fluoranthene	1.3	8.3	ND	U
129-00-0	Pyrene	0.57	8.3	0.75	J
56-55-3	Benzo(a)anthracene	0.57	8.3	ND	U
218-01-9	Chrysene	0.63	8.3	ND	U
205-99-2	Benzo(b)fluoranthene	0.57	8.3	ND	U
207-08-9	Benzo(k)fluoranthene	0.43	8.3	ND	U
50-32-8	Benzo(a)pyrene	0.38	8.3	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	ND	U
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100623A66.b/0060163-BLK1JA66.d
Date : 23-JUN-2010 12:30
Client ID: SBLKDY
Instrument: 5972hp66.i
Sample Info: 0060163-BLK1:DWS
Volume Injected (uL): 2.0
Operator: DWS
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100623A66.b/0060163-BLK1JA66.d
Report Date: 24-Jun-2010 12:37

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100623A66.b/0060163-BLK1JA66.d
Lab Smp Id: 0060163-BLK1 Client Smp ID: SBLKDY
Inj Date : 23-JUN-2010 12:30
Operator : OWS Inst ID: 5972hp66.i
Smp Info : 0060163-BLK1:OWS
Misc Info : SBLKDY
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100623A66.b/SIM_8270Cv3DOD.m
Meth Date : 24-Jun-2010 12:36 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.465	5.450	(1.000)	27980	2.00000		(a)
* 2 Naphthalene-d8	136	7.693	7.694	(1.000)	88890	2.00000		(a)
* 3 Acenaphthene-d10	164	11.116	11.105	(1.000)	47092	2.00000		(a)
* 4 Phenanthrene-d10	188	13.980	13.979	(1.000)	80358	2.00000		(a)
* 5 Chrysene-d12	240	19.217	19.212	(1.000)	76116	2.00000		(a)
* 6 Perylene-d12	264	21.842	21.838	(1.000)	73483	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.475	6.460	(0.842)	14346	0.65857	11	
$ 10 2-Fluorobiphenyl	172	9.855	9.847	(0.887)	25583	0.68614	11	
$ 12 Terphenyl-d14	244	17.226	17.226	(0.896)	23692	1.00086	17	
13 Naphthalene	128	7.728	7.729	(1.004)	4030	0.07766	1.3	(aM) 2 outside
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

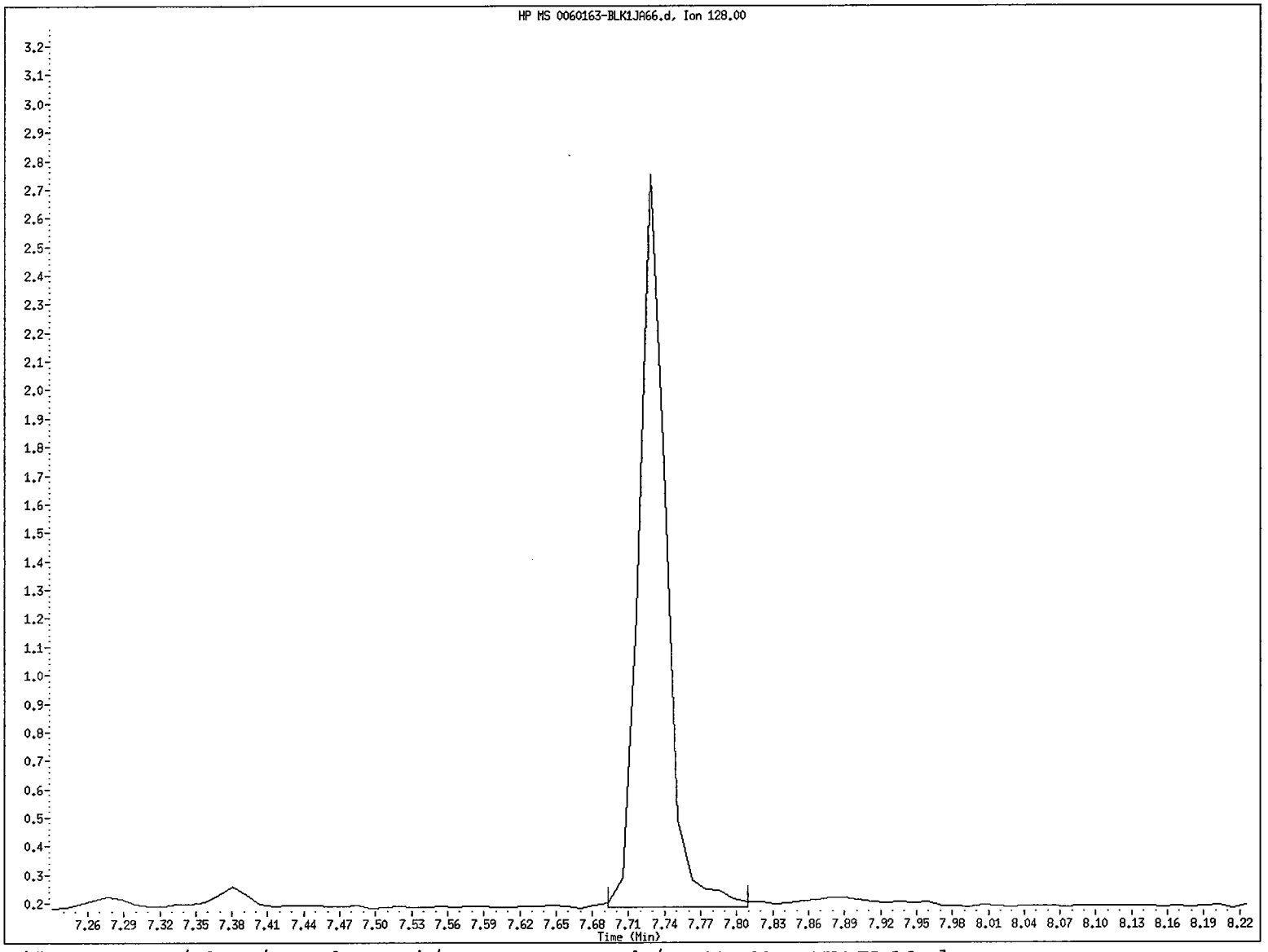
Data File: /chem/5972hp66.i/DS100623A66.b/0060163-BLK1JA66.d
Report Date: 24-Jun-2010 12:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.798	16.793	(0.874)	2076	0.04488	0.75(a)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

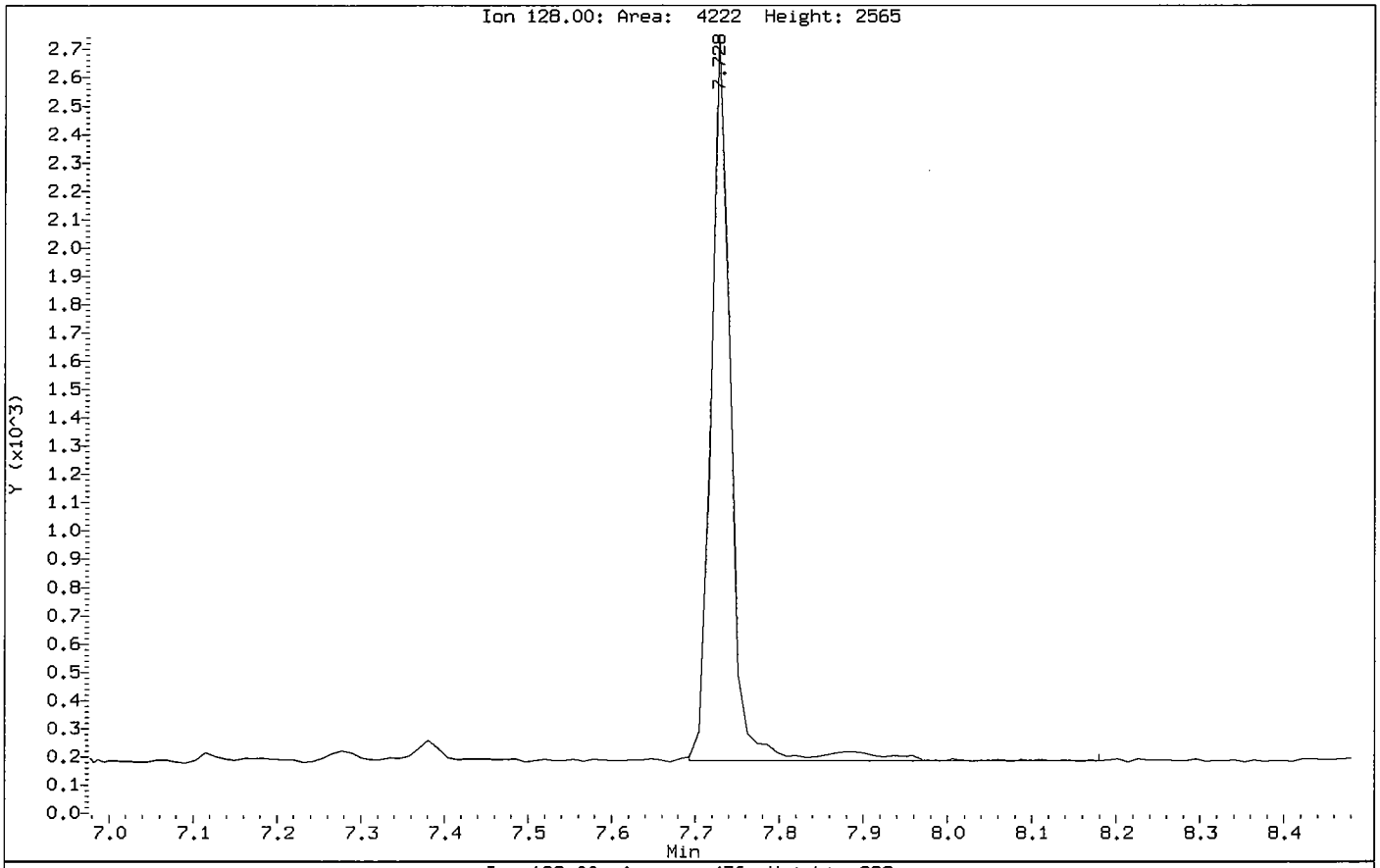
Naphthalene CAS Number 91-20-3 Area = 4030 Manually integrated

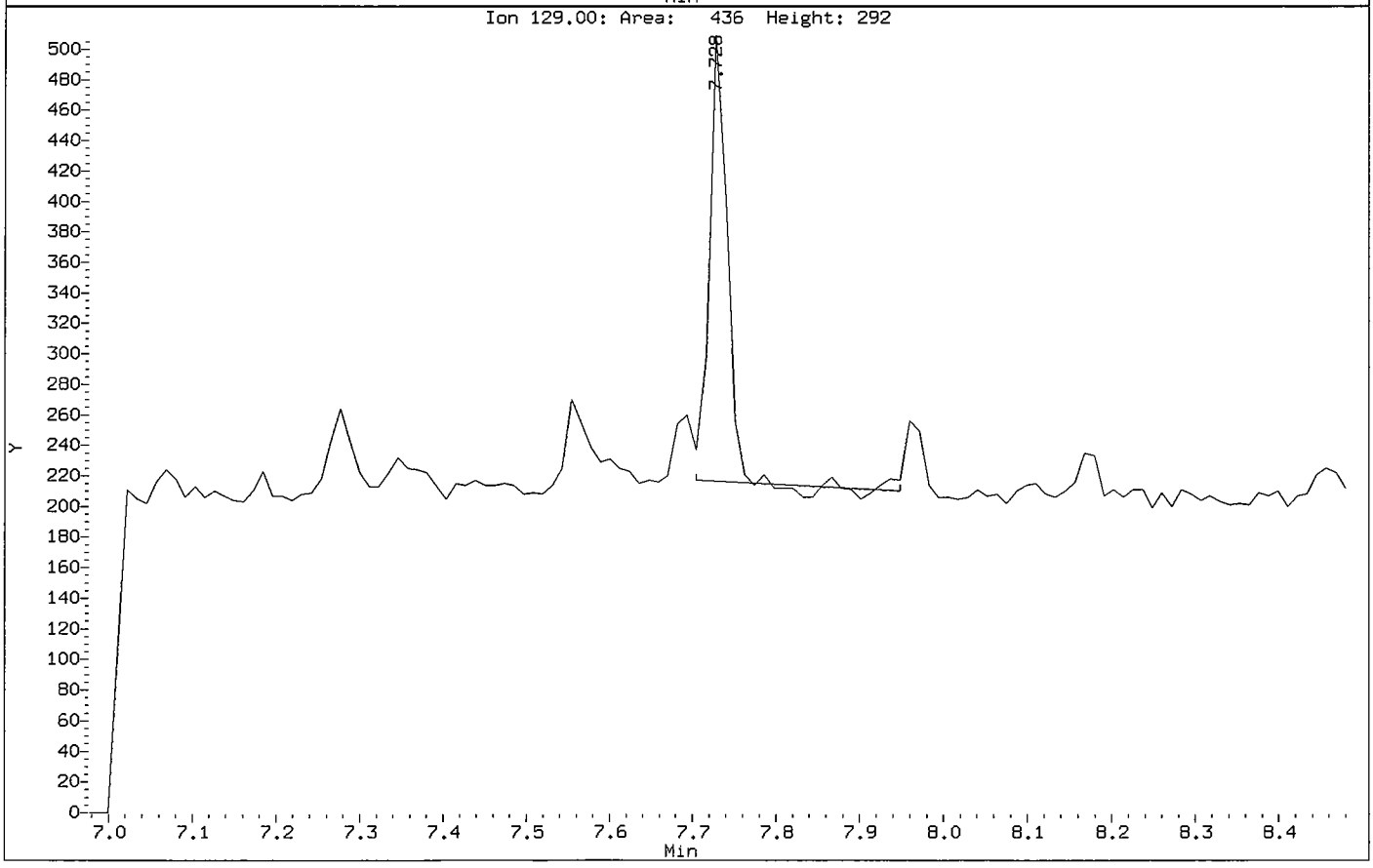


File name: /chem/5972hp66.i/DS100623A66.b/0060163-BLK1JA66.d
Client ID: SBLKDY
Instrument ID: 5972hp66.i
Injection Date and Time: 23-JUN-2010 12:30
Retention Time: 7.73
Operator ID: OWS

Data File: /chem/5972hp66.i/DS100623A66.b/0060163-BLK1JA66.d
Injection Date: 23-JUN-2010 12:30
Instrument: 5972hp66.i
Client Sample ID: SBLKDY

Compound: Naphthalene
CAS Number: 91-20-3





Data File: /chem/5972hp66.i/DS100623A66.b/0060163-BLK1JA66.d

Date : 23-JUN-2010 12:30

Client ID: SBLKDY

Instrument: 5972hp66.i

Sample Info: 0060163-BLK1:OWS

Volume Injected (uL): 2.0

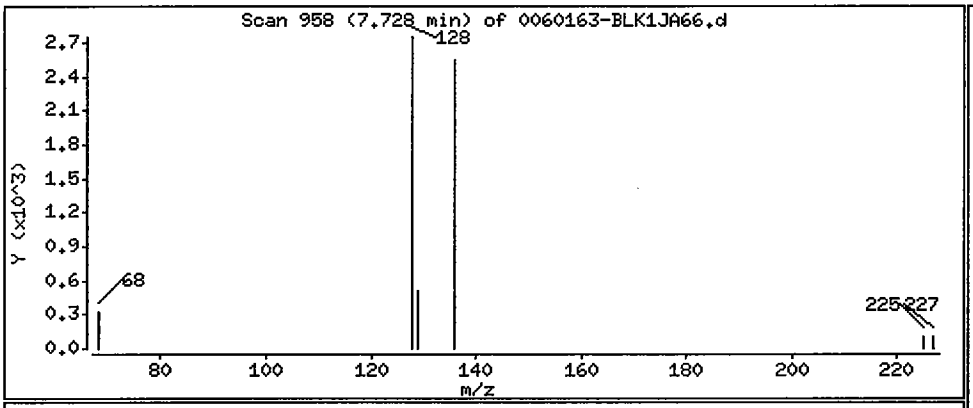
Operator: OWS

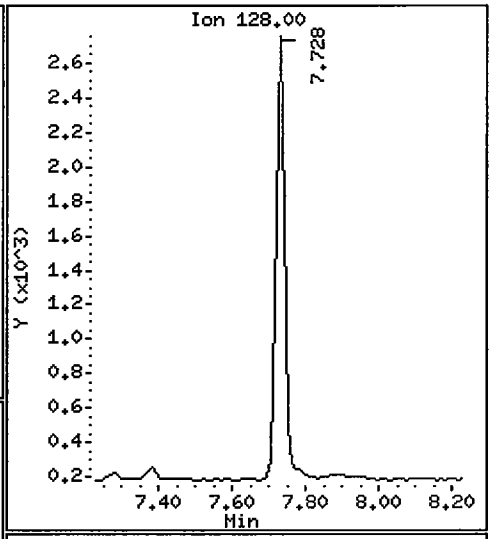
Column phase: Rtx-5MS

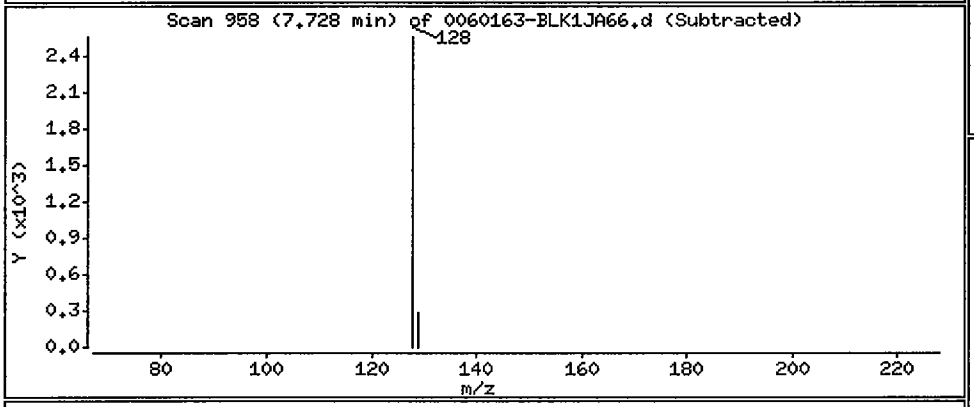
Column diameter: 0.32

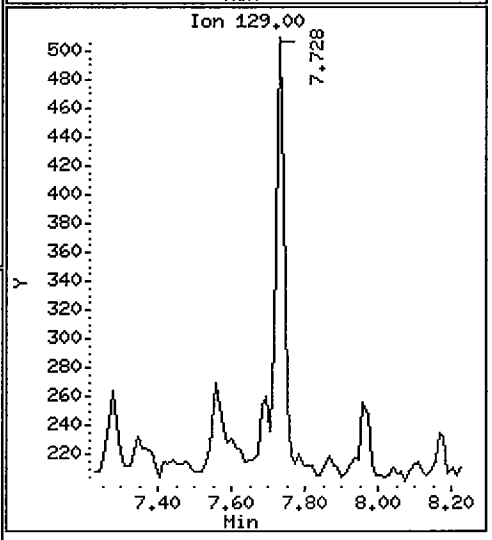
13 Naphthalene

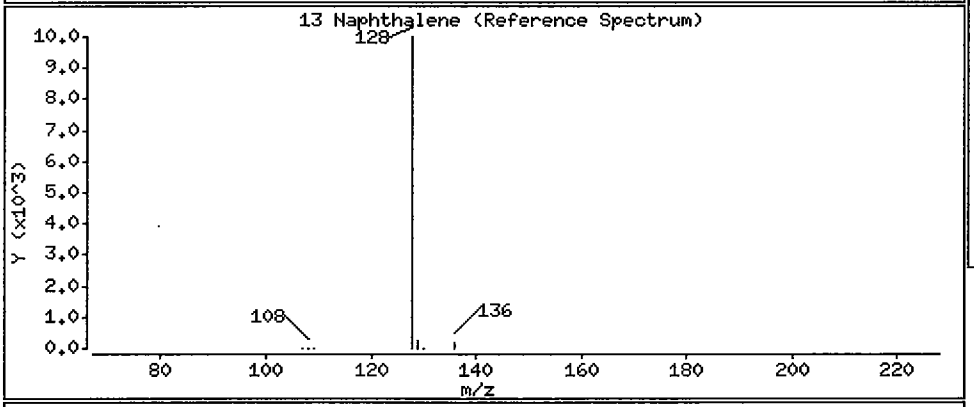
Concentration: 1.3 ug/Kg

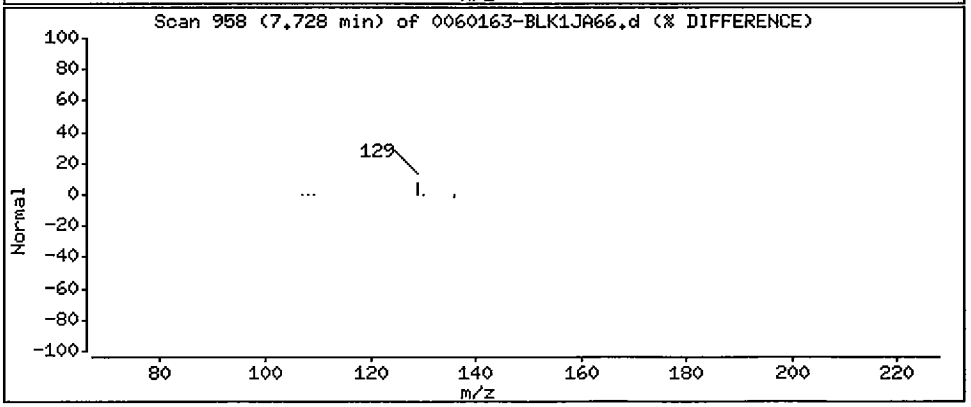












Data File: /chem/5972hp66.i/DS100623A66.b/0060163-BLK1JA66.d

Date : 23-JUN-2010 12:30

Client ID: SBLKDY

Instrument: 5972hp66.i

Sample Info: 0060163-BLK1:OWS

Volume Injected (uL): 2.0

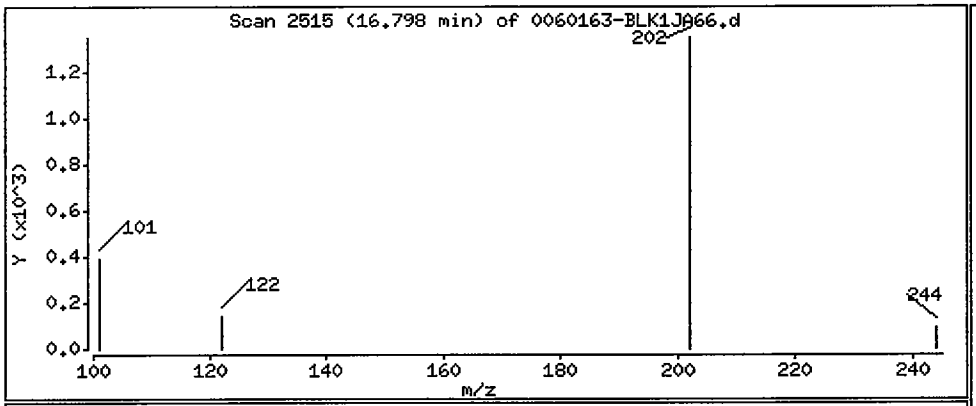
Operator: OWS

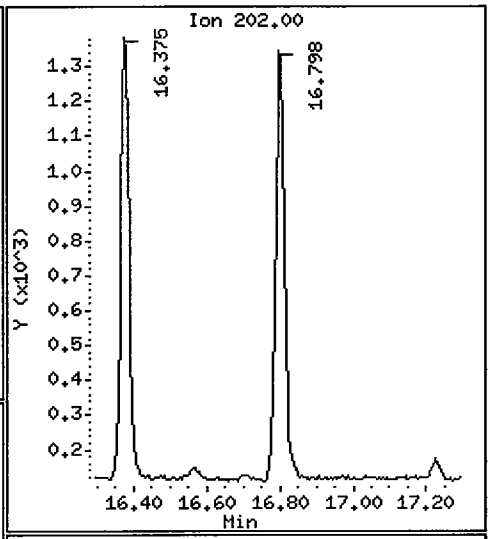
Column phase: Rtx-5MS

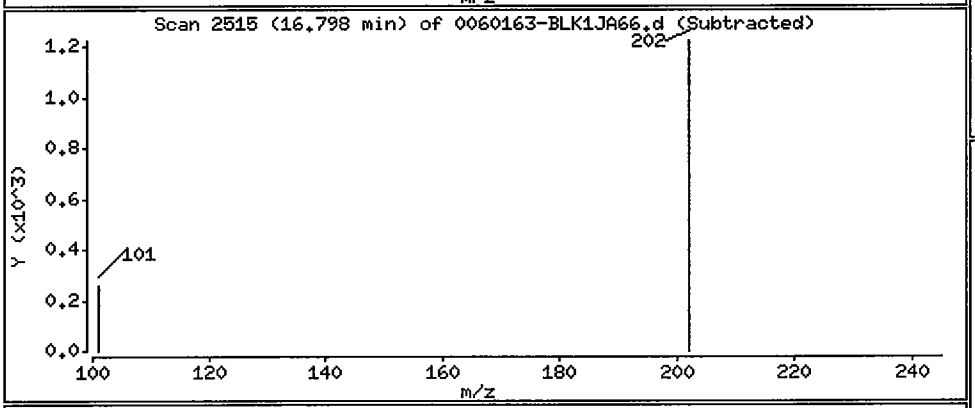
Column diameter: 0.32

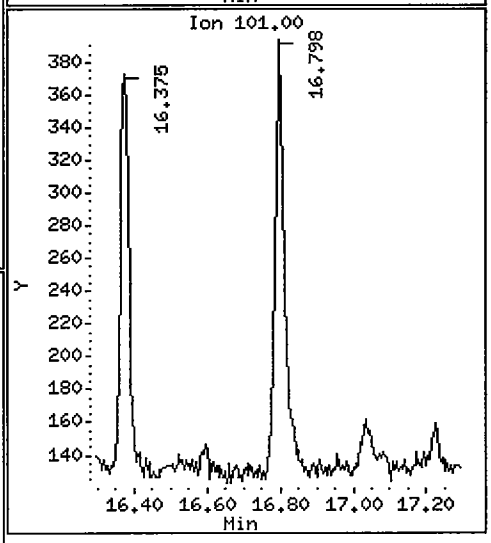
28 Pyrene

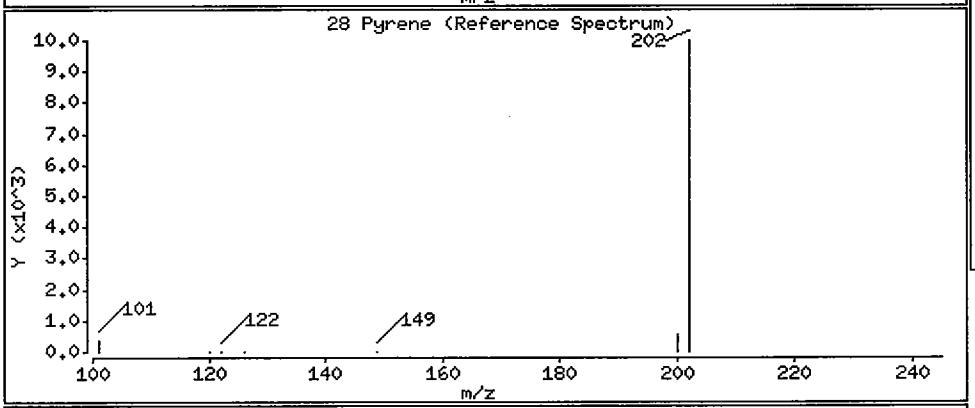
Concentration: 0.75 ug/Kg

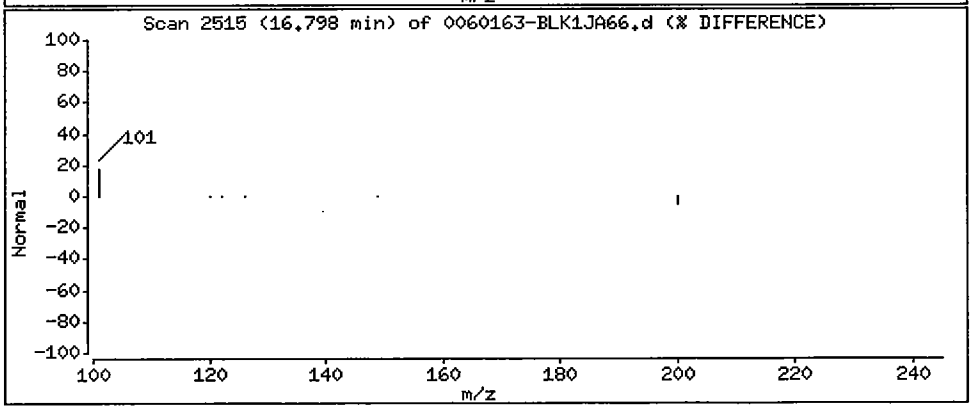












c. Laboratory Control Sample Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SBKLCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051831-BS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051831-BS1JC66
Analyst: 2743

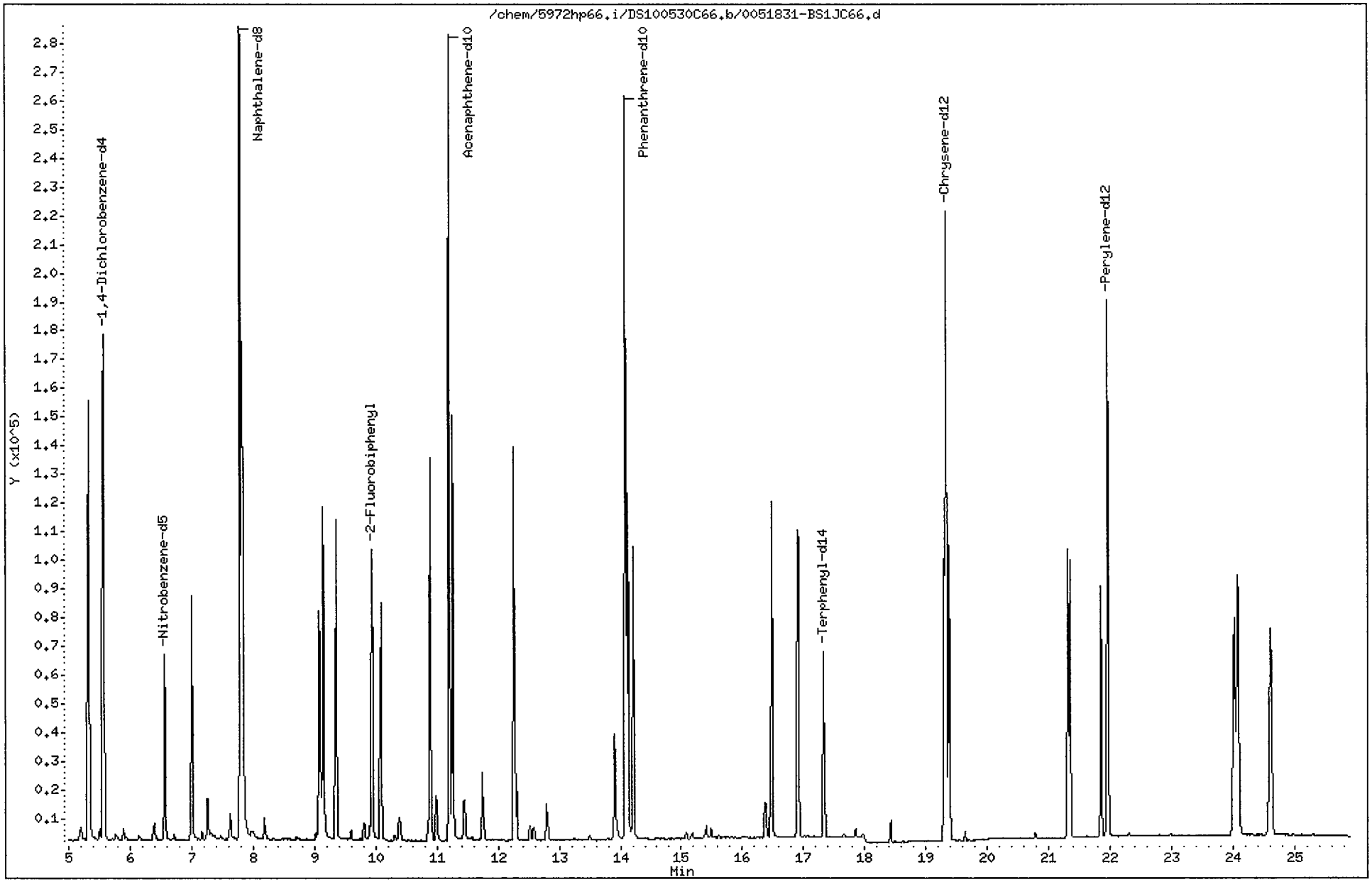
% Moisture: 0 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	9.8	
91-57-6	2-Methylnaphthalene	0.68	8.3	10	
208-96-8	Acenaphthylene	0.53	8.3	11	
83-32-9	Acenaphthene	0.60	8.3	11	
86-73-7	Fluorene	0.45	8.3	9.9	
85-01-8	Phenanthrene	1.3	8.3	11	
120-12-7	Anthracene	0.43	8.3	11	
206-44-0	Fluoranthene	1.3	8.3	14	
129-00-0	Pyrene	0.57	8.3	13	
56-55-3	Benzo(a)anthracene	0.57	8.3	14	
218-01-9	Chrysene	0.63	8.3	13	
205-99-2	Benzo(b)fluoranthene	0.57	8.3	14	
207-08-9	Benzo(k)fluoranthene	0.43	8.3	13	
50-32-8	Benzo(a)pyrene	0.38	8.3	13	
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	16	
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	15	
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	14	

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100530C66.b/0051831-BS1JC66.d
Date : 31-MAY-2010 04:04
Client ID: SBKLCS
Instrument: 5972hp66.i
Sample Info: 0051831-BS1:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/0051831-BS1JC66.d
Report Date: 02-Jun-2010 11:55

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/0051831-BS1JC66.d
Lab Smp Id: 0051831-BS1 Client Smp ID: SBKLCS
Inj Date : 31-MAY-2010 04:04
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0051831-BS1:2743
Misc Info : SBKLCS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 11:55 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.571	5.543	(1.000)	117895	2.00000		(a)
* 2 Naphthalene-d8	136	7.800	7.785	(1.000)	453409	2.00000		(a)
* 3 Acenaphthene-d10	164	11.205	11.206	(1.000)	200518	2.00000		(a)
* 4 Phenanthrene-d10	188	14.086	14.087	(1.000)	351178	2.00000		(a)
* 5 Chrysene-d12	240	19.327	19.336	(1.000)	276943	2.00000		(a)
* 6 Perylene-d12	264	21.962	21.960	(1.000)	243264	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.561	6.547	(0.841)	70235	0.69614	12	
$ 10 2-Fluorobiphenyl	172	9.937	9.936	(0.887)	94394	0.45112	7.5	
$ 12 Terphenyl-d14	244	17.333	17.334	(0.897)	81509	0.81003	14	
13 Naphthalene	128	7.826	7.825	(1.003)	164456	0.58639	9.8	
15 2-Methylnaphthalene	141	9.142	9.141	(0.816)	88231	0.61458	10	
17 Acenaphthylene	152	10.892	10.893	(0.972)	147582	0.65890	11	
18 Acenaphthene	154	11.257	11.258	(1.005)	83370	0.63529	11	

Data File: /chem/5972hp66.i/DS100530C66.b/0051831-BS1JC66.d
Report Date: 02-Jun-2010 11:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	12.260	12.261	(0.870)	97179	0.59127	9.9
25 Phenanthrene	178	14.126	14.126	(1.003)	147469	0.67343	11
26 Anthracene	178	14.217	14.218	(1.009)	135153	0.68616	11
27 Fluoranthene	202	16.485	16.486	(0.853)	152543	0.83067	14
28 Pyrene	202	16.916	16.917	(0.875)	160769	0.80390	13
29 Benzo(a)anthracene	228	19.301	19.302	(0.999)	128573	0.85404	14
30 Chrysene	228	19.380	19.380	(1.003)	131915	0.80898	13
31 Benzo(b)fluoranthene	252	21.309	21.318	(0.970)	136760	0.85246	14
32 Benzo(k)fluoranthene	252	21.352	21.350	(0.972)	135610	0.78549	13
33 Benzo(a)pyrene	252	21.853	21.862	(0.995)	110417	0.76374	13
34 Indeno(1,2,3-cd)pyrene	276	24.019	24.028	(1.094)	120095	0.94159	16
35 Dibenzo(a,h)anthracene	278	24.084	24.082	(1.097)	114181	0.90500	15
36 Benzo(g,h,i)perylene	276	24.607	24.616	(1.120)	122276	0.86496	14

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SDYLCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0060163-BS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0060163-BS1JA66
Analyst: OWS

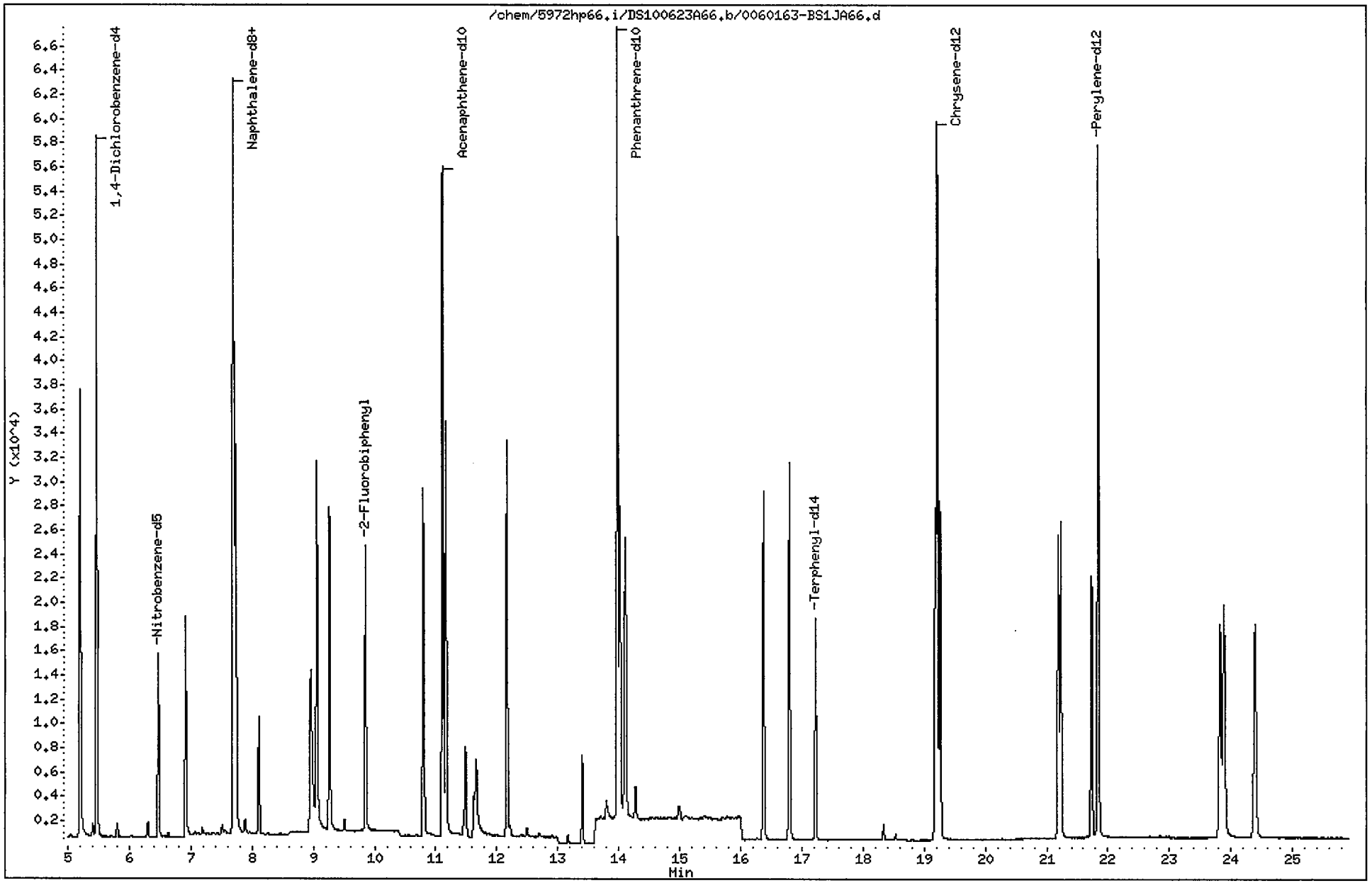
% Moisture: 0 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0060163-BLK1

Date Extracted: 06/02/10
Date Analyzed: 06/23/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	0.72	8.3	12	
91-57-6	2-Methylnaphthalene	0.68	8.3	12	
208-96-8	Acenaphthylene	0.53	8.3	11	
83-32-9	Acenaphthene	0.60	8.3	12	
86-73-7	Fluorene	0.45	8.3	11	
85-01-8	Phenanthrene	1.3	8.3	12	
120-12-7	Anthracene	0.43	8.3	11	
206-44-0	Fluoranthene	1.3	8.3	14	
129-00-0	Pyrene	0.57	8.3	14	
56-55-3	Benzo(a)anthracene	0.57	8.3	15	
218-01-9	Chrysene	0.63	8.3	15	
205-99-2	Benzo(b)fluoranthene	0.57	8.3	14	
207-08-9	Benzo(k)fluoranthene	0.43	8.3	13	
50-32-8	Benzo(a)pyrene	0.38	8.3	12	
193-39-5	Indeno(1,2,3-cd)pyrene	0.37	8.3	14	
53-70-3	Dibenzo(a,h)anthracene	0.33	8.3	14	
191-24-2	Benzo(g,h,i)perylene	0.38	8.3	14	

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100623A66.b/0060163-BS1JA66.d
Date : 23-JUN-2010 13:04
Client ID: SDYLCS
Instrument: 5972hp66.i
Sample Info: 0060163-BS1:OWS
Volume Injected (uL): 2.0
Operator: OWS
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100623A66.b/0060163-BS1JA66.d
Report Date: 24-Jun-2010 12:36

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100623A66.b/0060163-BS1JA66.d
Lab Smp Id: 0060163-BS1 Client Smp ID: SDYLCS
Inj Date : 23-JUN-2010 13:04
Operator : OWS Inst ID: 5972hp66.i
Smp Info : 0060163-BS1:OWS
Misc Info : SDYLCS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100623A66.b/SIM_8270Cv3DOD.m
Meth Date : 24-Jun-2010 12:36 byrd Quant Type: ISTD
Cal Date : 20-JUN-2010 11:07 Cal File: 0F20001-CAL5A66.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.470	5.450	(1.000)	33228	2.00000		(a)
*	2 Naphthalene-d8	136	7.694	7.694	(1.000)	98120	2.00000		(a)
*	3 Acenaphthene-d10	164	11.117	11.105	(1.000)	52824	2.00000		(a)
*	4 Phenanthrene-d10	188	13.980	13.979	(1.000)	92682	2.00000		(a)
*	5 Chrysene-d12	240	19.216	19.212	(1.000)	80231	2.00000		(a)
*	6 Perylene-d12	264	21.838	21.838	(1.000)	76516	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.475	6.460	(0.842)	15876	0.66025	11	
$	10 2-Fluorobiphenyl	172	9.851	9.847	(0.886)	26807	0.64095	11	
$	12 Terphenyl-d14	244	17.226	17.226	(0.896)	22579	0.90492	15	
	13 Naphthalene	128	7.728	7.729	(1.004)	41924	0.73187	12	
	15 2-Methylnaphthalene	141	9.058	9.050	(1.177)	22190	0.73302	12	
	17 Acenaphthylene	152	10.794	10.793	(0.971)	35177	0.64643	11	
	18 Acenaphthene	154	11.164	11.163	(1.004)	20064	0.69809	12	

Data File: /chem/5972hp66.i/DS100623A66.b/0060163-BS1JA66.d
Report Date: 24-Jun-2010 12:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21	Fluorene	166	12.164	12.160	(1.094)	24893	0.67623	11
25	Phenanthrene	178	14.014	14.014	(1.002)	35454	0.69965	12
26	Anthracene	178	14.107	14.106	(1.009)	31397	0.66909	11
27	Fluoranthene	202	16.374	16.369	(1.171)	40526	0.83974	14
28	Pyrene	202	16.798	16.793	(0.874)	41318	0.84741	14
29	Benzo(a)anthracene	228	19.181	19.181	(0.998)	33382	0.88052	15
30	Chrysene	228	19.260	19.260	(1.002)	34422	0.87911	15
31	Benzo(b)fluoranthene	252	21.189	21.189	(0.970)	35514	0.84116	14
32	Benzo(k)fluoranthene	252	21.229	21.229	(0.972)	36929	0.80548	13
33	Benzo(a)pyrene	252	21.732	21.732	(0.995)	29216	0.73396	12
34	Indeno(1,2,3-cd)pyrene	276	23.825	23.821	(1.091)	30154	0.86667	14
35	Dibenzo(a,h)anthracene	278	23.887	23.883	(1.094)	27641	0.81906	14
36	Benzo(g,h,i)perylene	276	24.390	24.386	(1.117)	32848	0.85877	14

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

d. Matrix Spike Data

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1MS

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 0051831-MS1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 0051831-MS1C66
Analyst: 2743

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

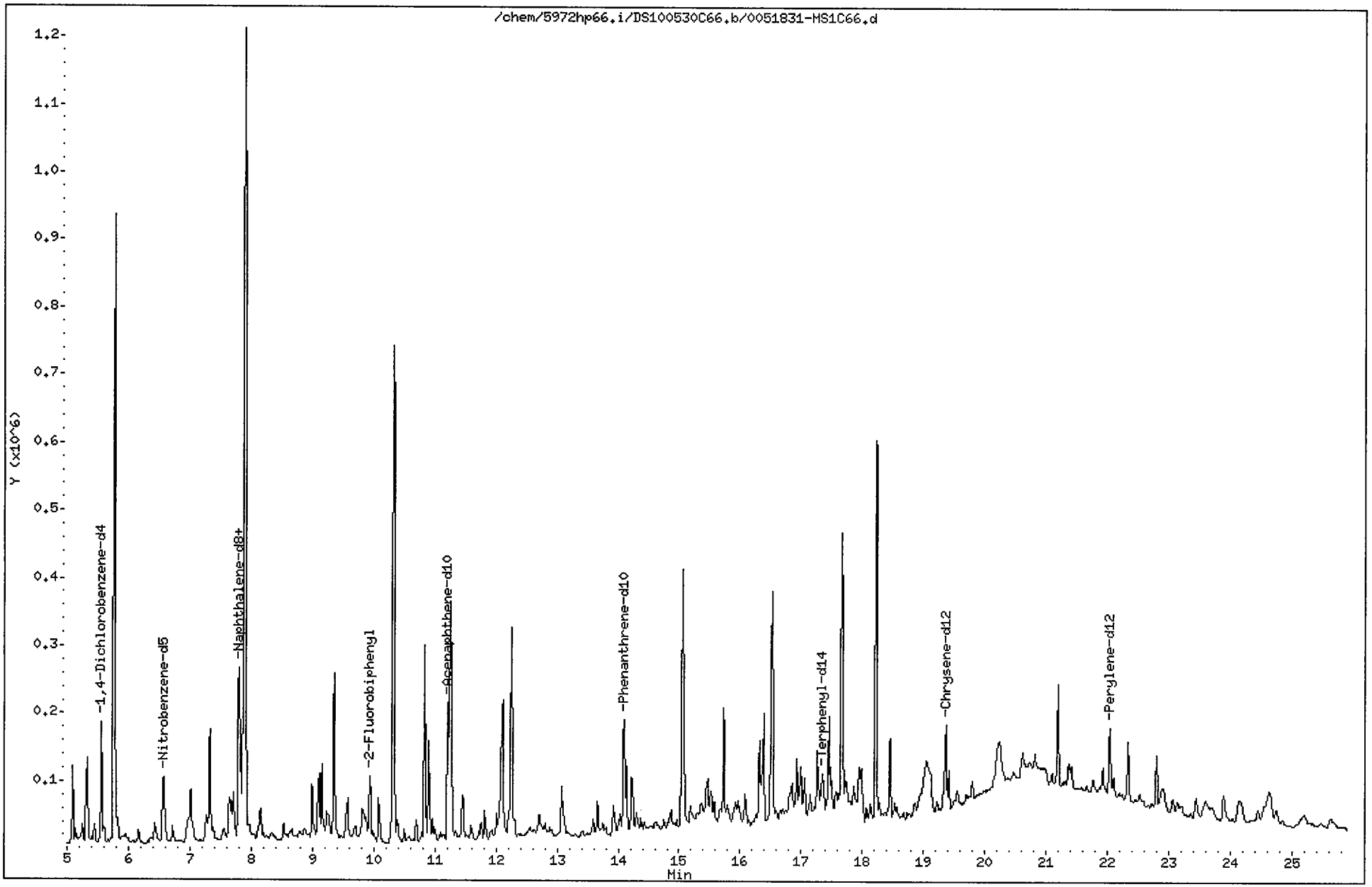
Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	15	
91-57-6	2-Methylnaphthalene	1.0	13	18	
208-96-8	Acenaphthylene	0.81	13	19	
83-32-9	Acenaphthene	0.91	13	17	
86-73-7	Fluorene	0.68	13	19	
85-01-8	Phenanthrene	2.0	13	19	
120-12-7	Anthracene	0.66	13	20	
206-44-0	Fluoranthene	2.0	13	24	
129-00-0	Pyrene	0.86	13	21	
56-55-3	Benzo(a)anthracene	0.86	13	20	
218-01-9	Chrysene	0.96	13	19	
205-99-2	Benzo(b)fluoranthene	0.86	13	19	
207-08-9	Benzo(k)fluoranthene	0.66	13	18	
50-32-8	Benzo(a)pyrene	0.58	13	17	
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	17	
53-70-3	Dibenzo(a,h)anthracene	0.51	13	17	
191-24-2	Benzo(g,h,i)perylene	0.58	13	15	

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Date : 31-MAY-2010 05:17
Client ID: SS50-0-1MS
Sample Info: 0051831-MS1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Report Date: 25-Jun-2010 14:45

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Lab Smp Id: 0051831-MS1 Client Smp ID: SS50-0-1MS
Inj Date : 31-MAY-2010 05:17
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0051831-MS1:2743
Misc Info : SS50-0-1MS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-Jun-2010 14:45 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	34.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.561	5.543	(1.000)	104194	2.00000		
* 2 Naphthalene-d8	136	7.803	7.785	(1.000)	392800	2.00000		
* 3 Acenaphthene-d10	164	11.217	11.206	(1.000)	159878	2.00000		
* 4 Phenanthrene-d10	188	14.101	14.087	(1.000)	248275	2.00000		
* 5 Chrysene-d12	240	19.362	19.336	(1.000)	163415	2.00000		
* 6 Perylene-d12	264	22.037	21.960	(1.000)	116573	2.00000		
$ 9 Nitrobenzene-d5	82	6.564	6.547	(0.841)	105848	1.21100		31(RH)
$ 10 2-Fluorobiphenyl	172	9.940	9.936	(0.886)	85176	0.51054		13
$ 12 Terphenyl-d14	244	17.347	17.334	(0.896)	55043	0.92703		23
13 Naphthalene	128	7.829	7.825	(1.003)	142418	0.58617		15
15 2-Methylnaphthalene	141	9.158	9.141	(0.816)	79755	0.69675		18
17 Acenaphthylene	152	10.904	10.893	(0.972)	133241	0.74608		19
18 Acenaphthene	154	11.269	11.258	(1.005)	72375	0.69169		17

Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Report Date: 25-Jun-2010 14:45

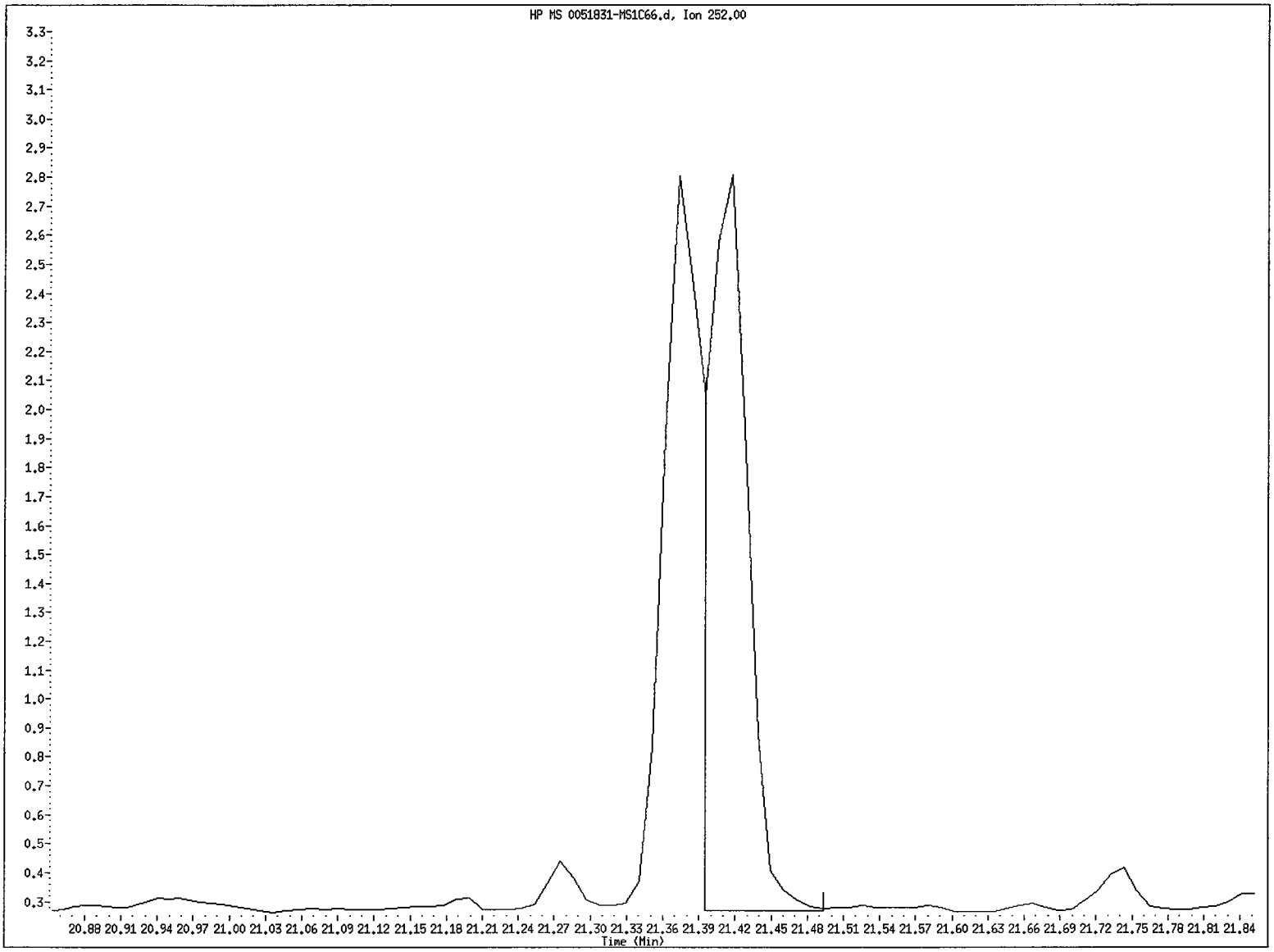
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	12.272	12.261	(0.870)	89466	0.76996	19
25 Phenanthrene	178	14.140	14.126	(1.003)	117099	0.75638	19
26 Anthracene	178	14.218	14.218	(1.008)	110712	0.79504	20
27 Fluoranthene	202	16.500	16.486	(0.852)	105057	0.96953	24
28 Pyrene	202	16.930	16.917	(0.874)	97014	0.82212	21
29 Benzo(a)anthracene	228	19.327	19.302	(0.998)	71399	0.80375	20
30 Chrysene	228	19.405	19.380	(1.002)	70499	0.73270	19
31 Benzo(b)fluoranthene	252	21.373	21.318	(0.970)	57960	0.75392	19
32 Benzo(k)fluoranthene	252	21.417	21.350	(0.972)	59762	0.72236	18(M)
33 Benzo(a)pyrene	252	21.928	21.862	(0.995)	47442	0.68479	17
34 Indeno(1,2,3-cd)pyrene	276	24.127	24.028	(1.095)	42066	0.68825	17(M)
35 Dibenzo(a,h)anthracene	278	24.181	24.082	(1.097)	41416	0.68502	17(M)
36 Benzo(g,h,i)perylene	276	24.747	24.616	(1.123)	40542	0.59846	15(M)

2
2
1
1

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

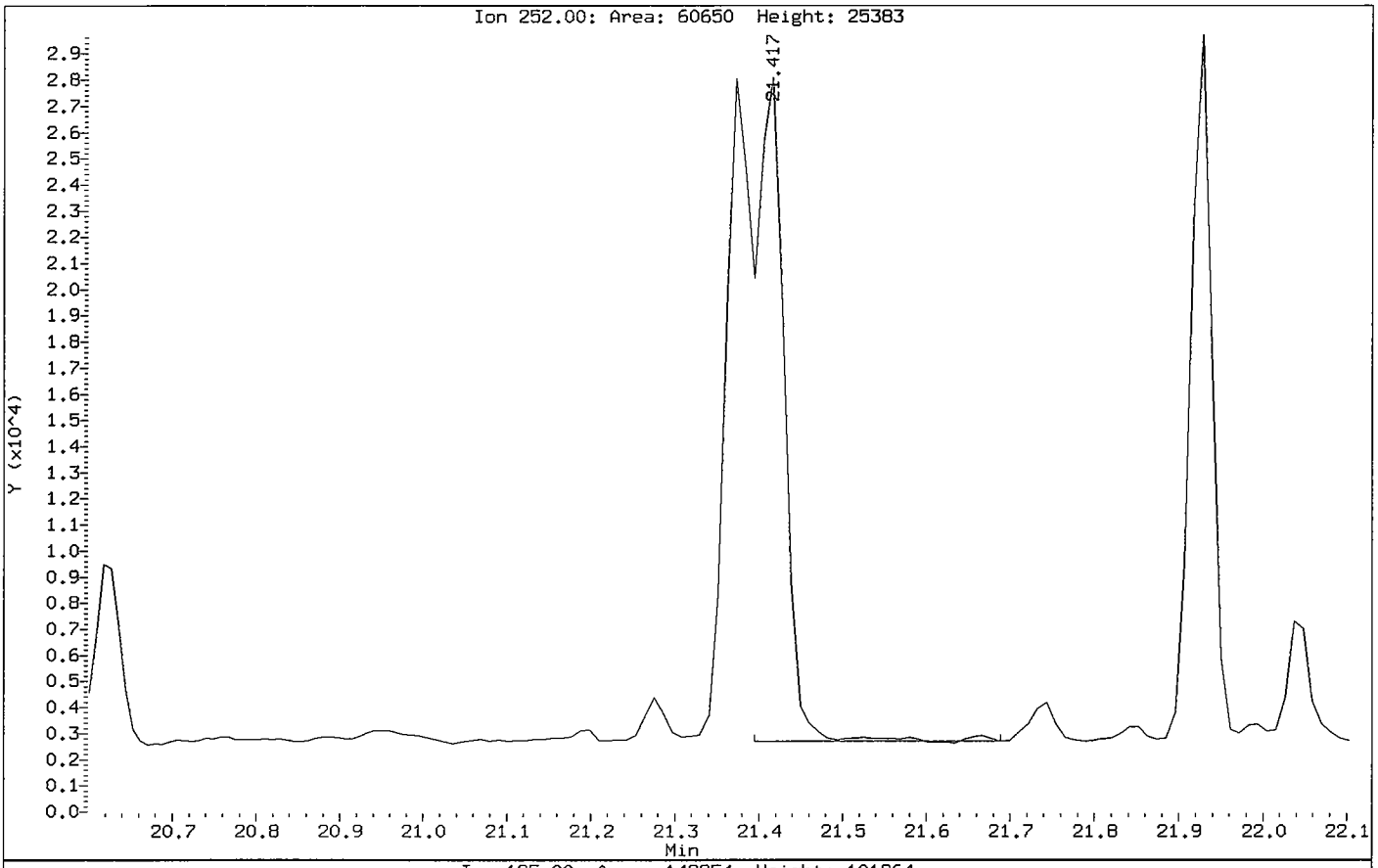
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 59762 Manually integrated

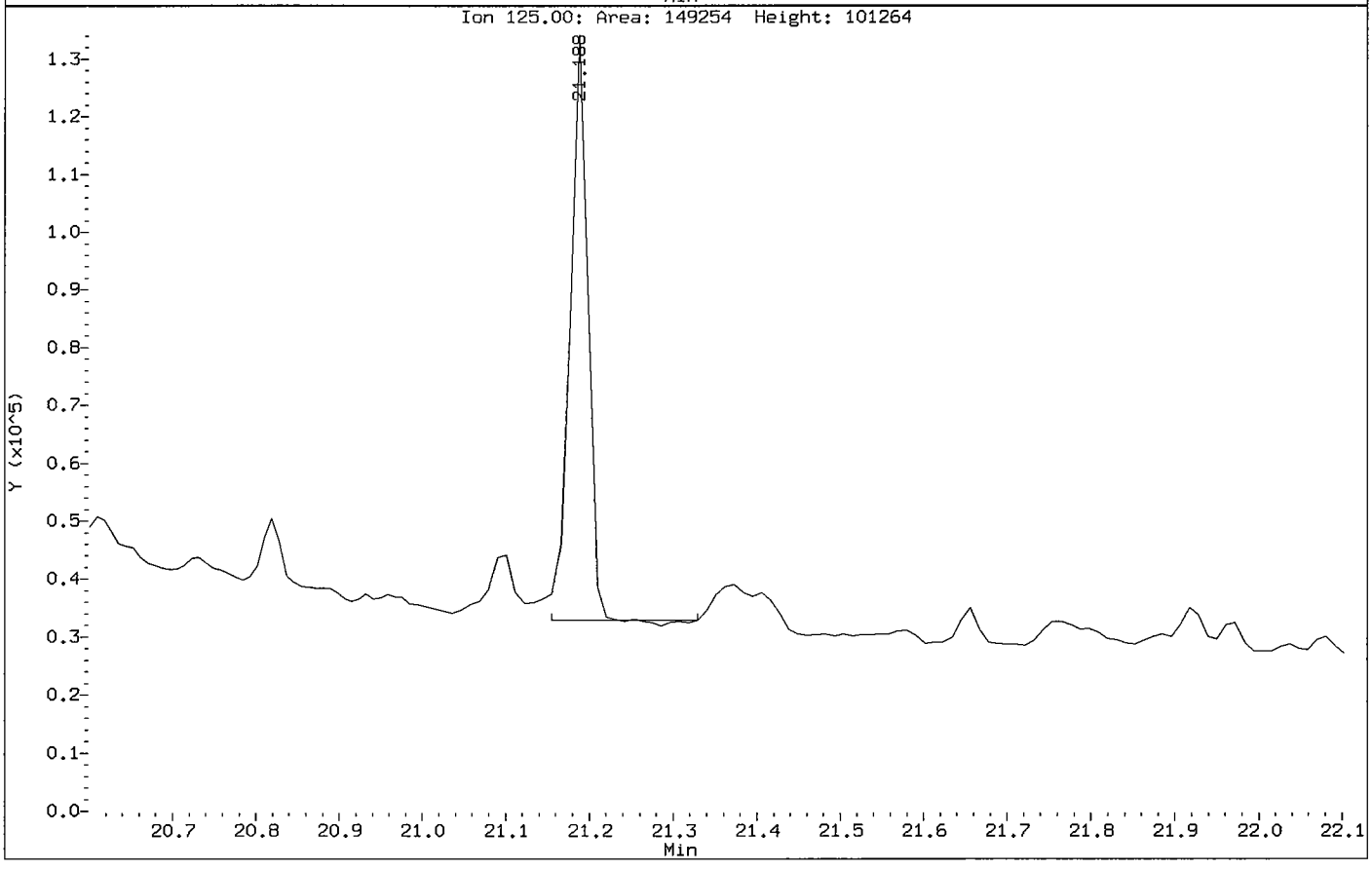


File name: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Client ID: SS50-0-1MS
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 05:17
Retention Time: 21.42
Operator ID: 2743

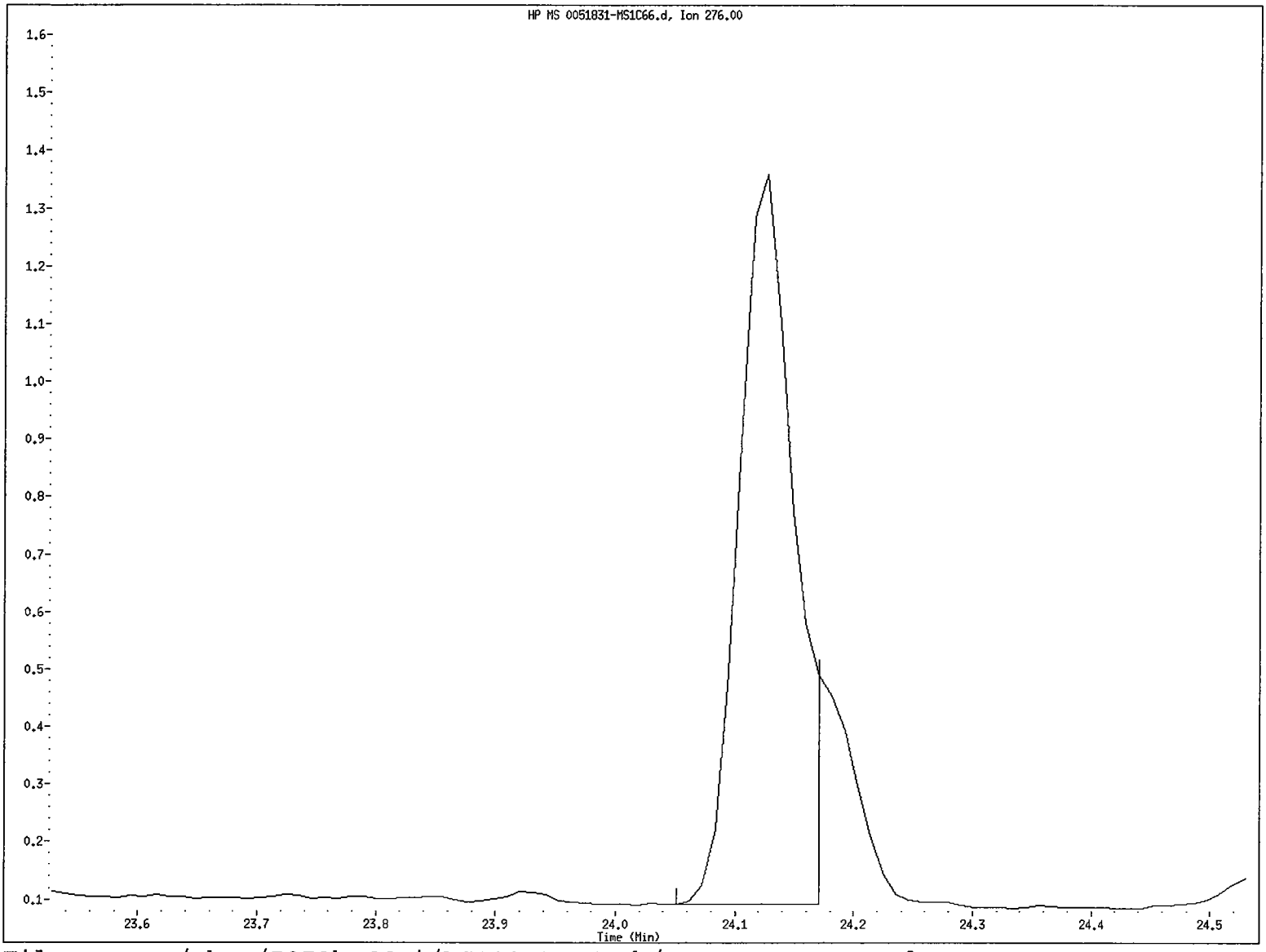
Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Injection Date: 31-MAY-2010 05:17
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1MS

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





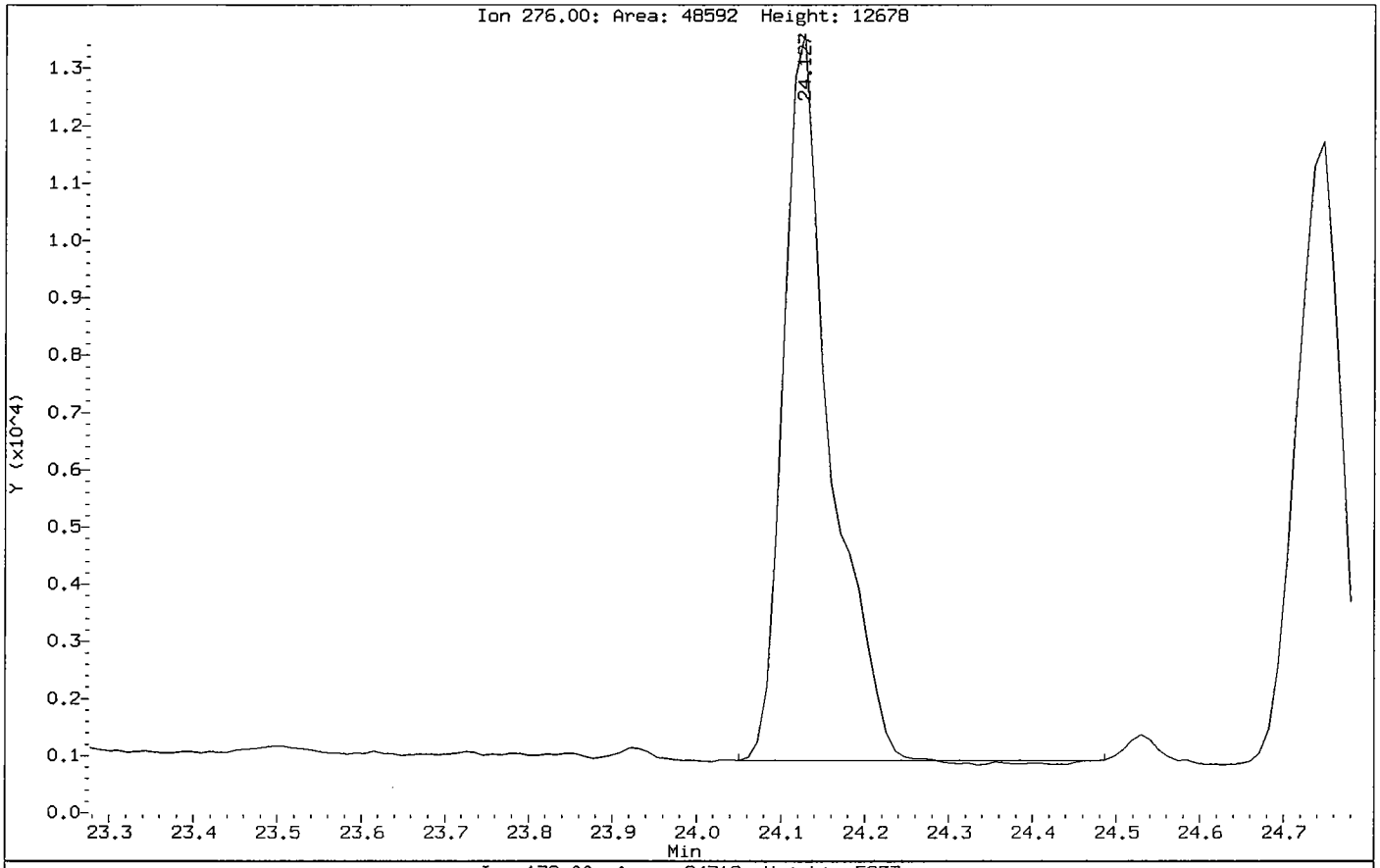
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 42066 Manually integrated

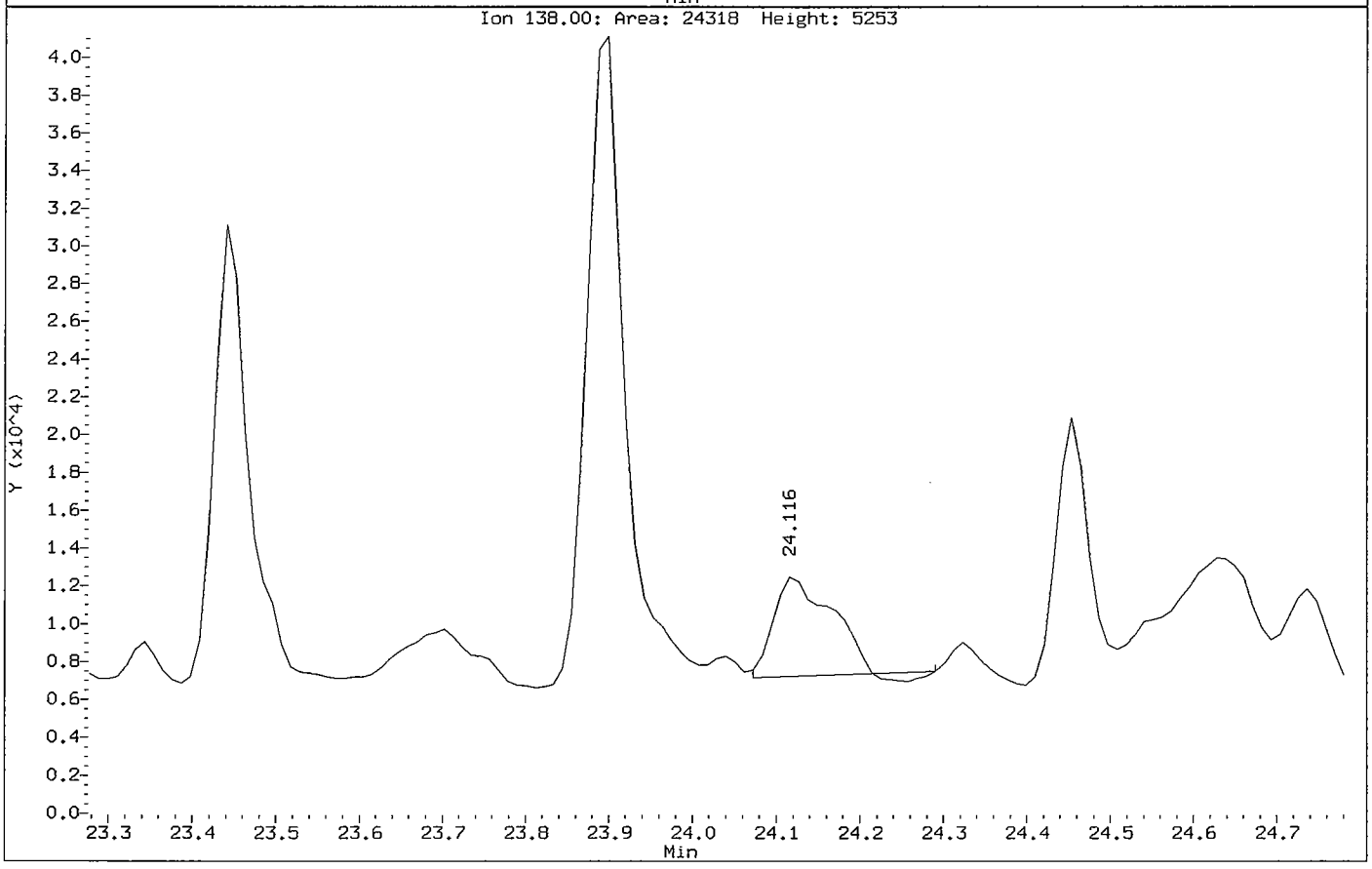


File name: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Client ID: SS50-0-1MS
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 05:17
Retention Time: 24.13
Operator ID: 2743

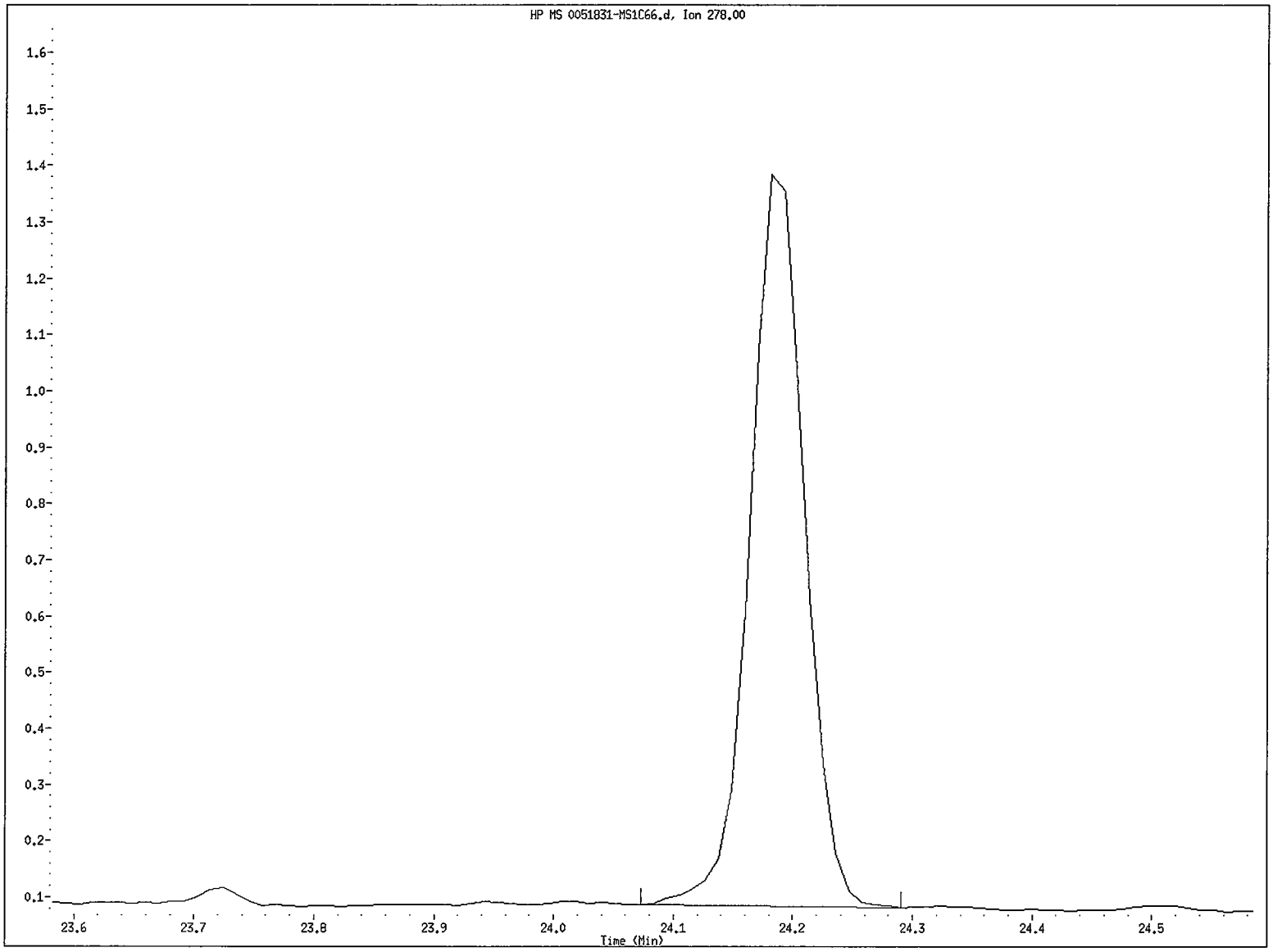
Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Injection Date: 31-MAY-2010 05:17
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1MS

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



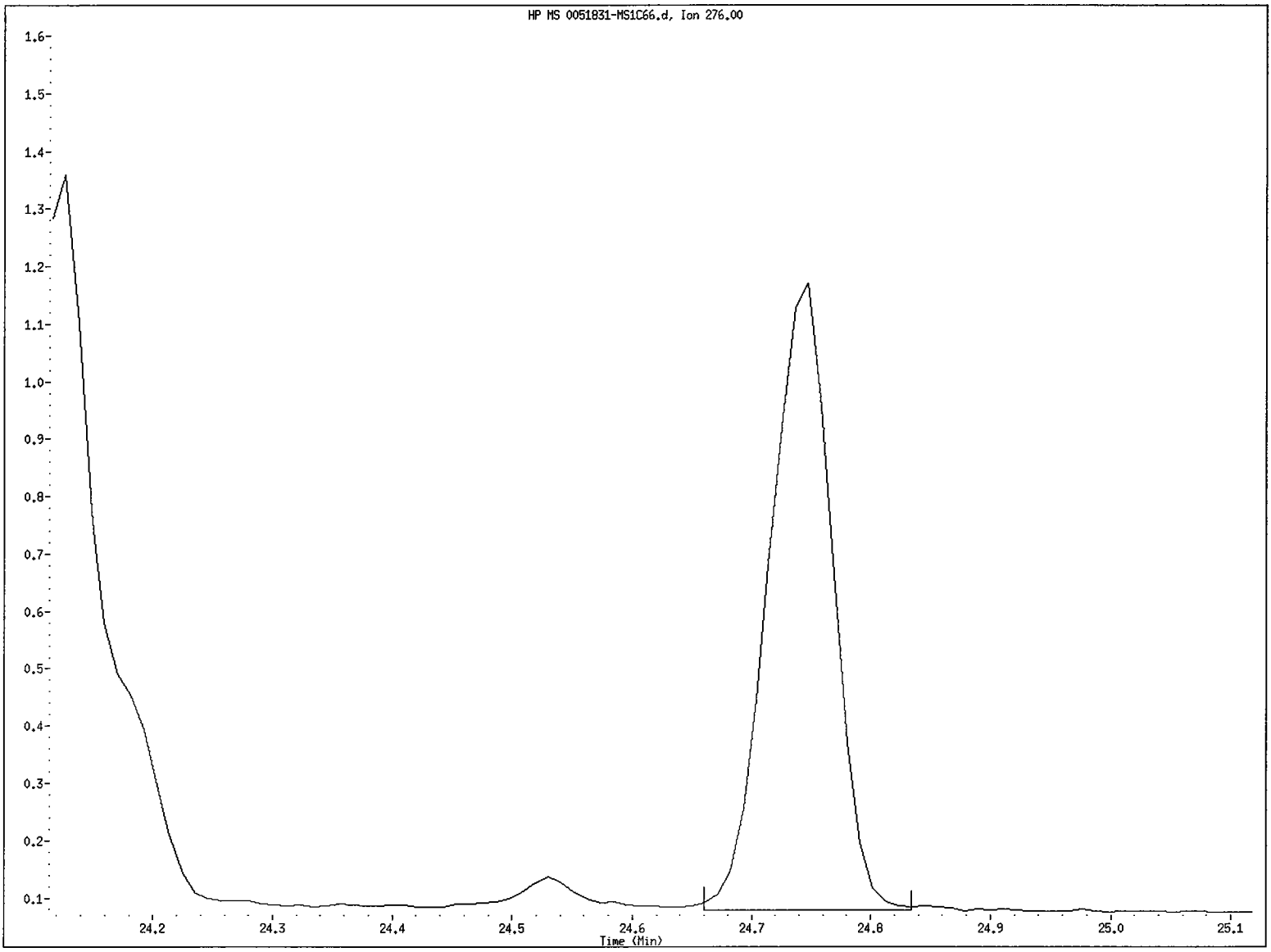


Dibenzo(a,h)anthracene CAS Number 53-70-3 Area = 41416 Manually integrated



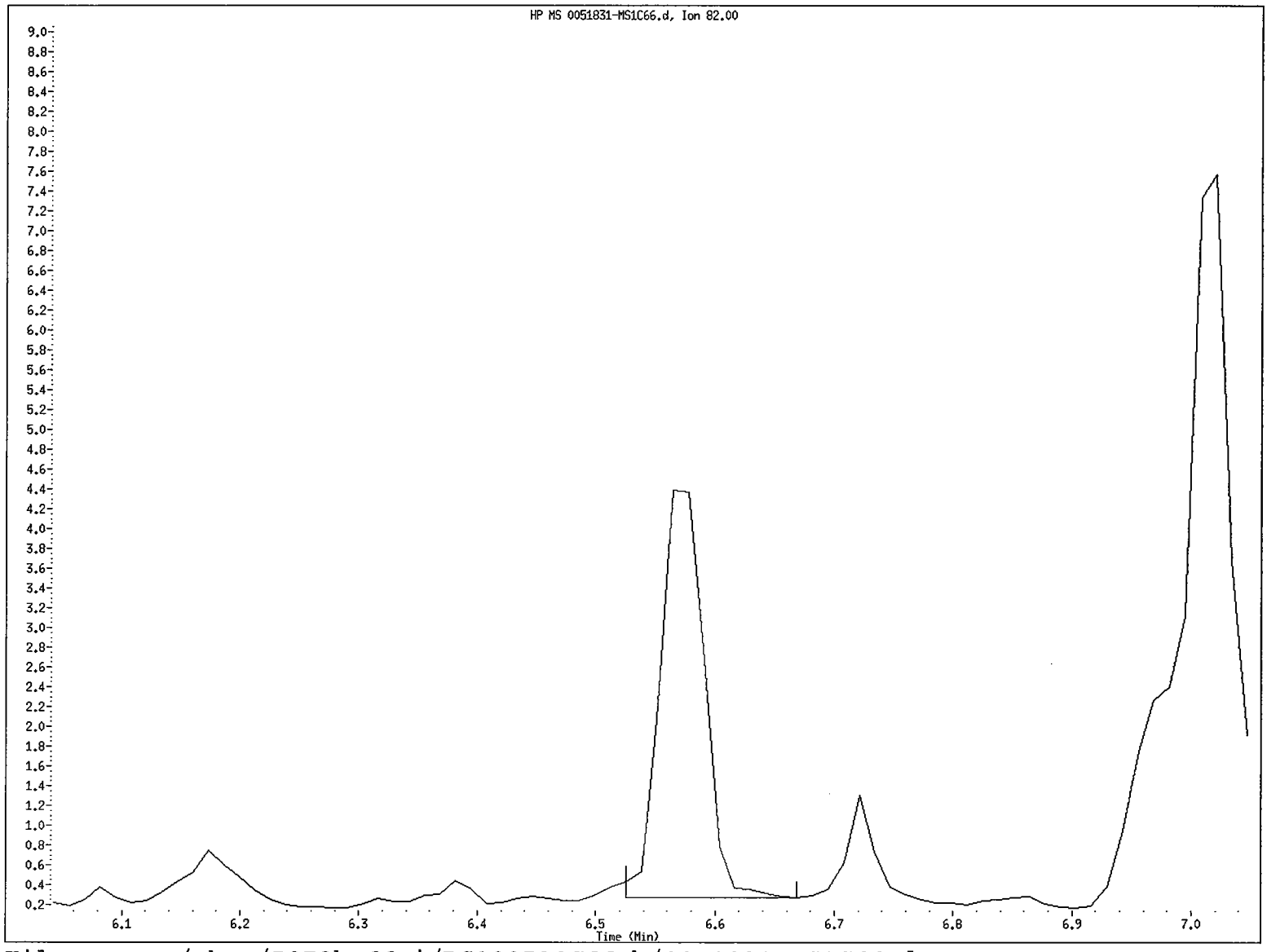
File name: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Client ID: SS50-0-1MS
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 05:17
Retention Time: 24.18
Operator ID: 2743

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 40542 Manually integrated



File name: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Client ID: SS50-0-1MS
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 05:17
Retention Time: 24.75
Operator ID: 2743

Nitrobenzene-d5 CAS Number 4165-60-0 Area = 105848 User selected hit



File name: /chem/5972hp66.i/DS100530C66.b/0051831-MS1C66.d
Client ID: SS50-0-1MS
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 05:17
Retention Time: 6.56
Operator ID: 2743

e. Matrix Spike Duplicate Data

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005130
Client Sample ID: SS50-0-1MSD

Lab Project Number:
Method: 8270C-SIM
Date Collected: 05/11/10

Lab Sample ID: 0051831-MSD1
Sample wt/vol: 30.0 (g/mL) G
Level: (low/med) LOW

Date Received: 05/13/10
Lab File ID: 0051831-MSD1C66
Analyst: 2743

% Moisture: 34 decanted: (Y/N) N
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051831-BLK1

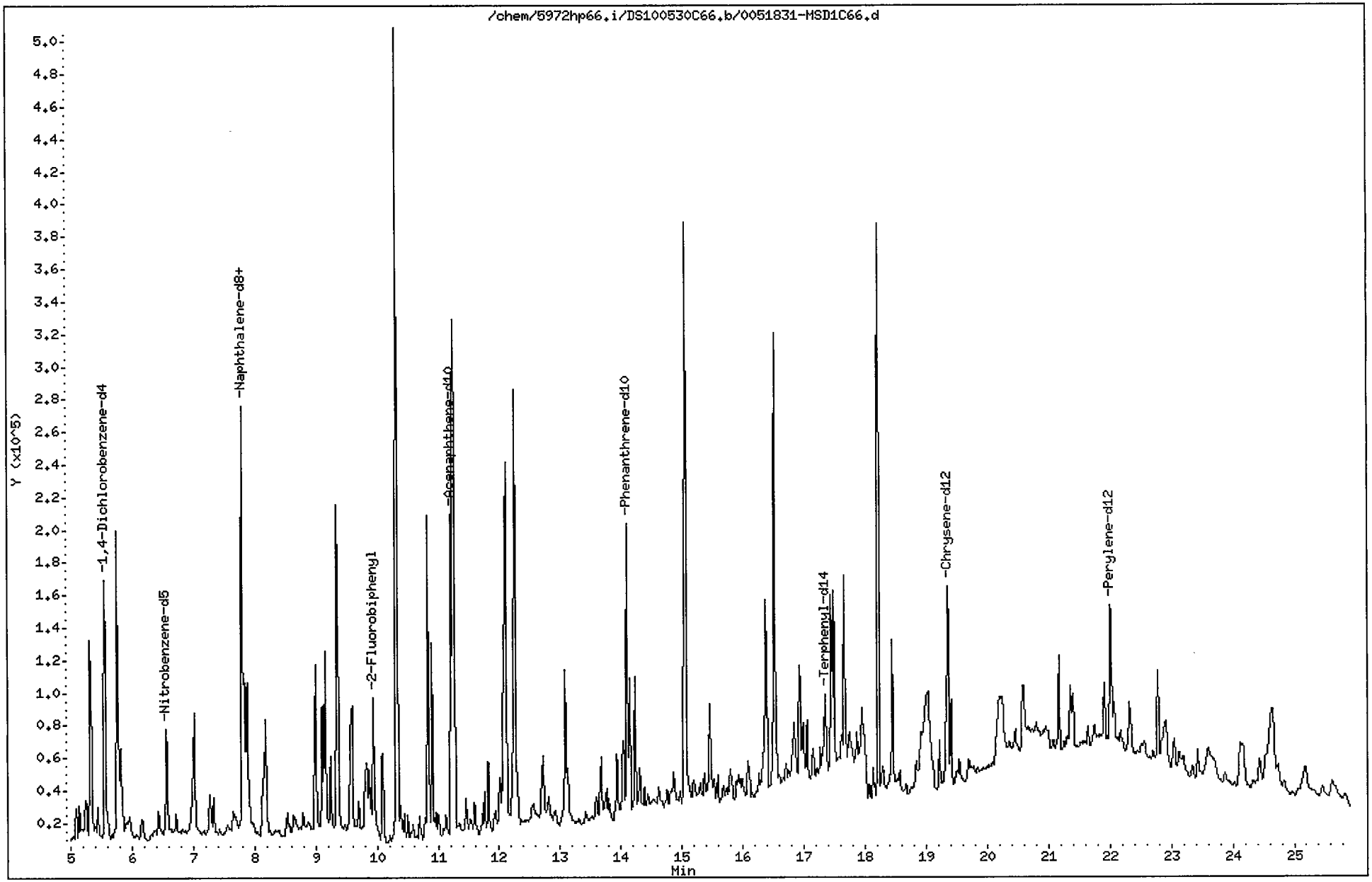
Date Extracted: 05/19/10
Date Analyzed: 05/31/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/KG	Results UG/KG	Q
91-20-3	Naphthalene	1.1	13	15	
91-57-6	2-Methylnaphthalene	1.0	13	18	
208-96-8	Acenaphthylene	0.81	13	19	
83-32-9	Acenaphthene	0.91	13	18	
86-73-7	Fluorene	0.68	13	18	
85-01-8	Phenanthrene	2.0	13	19	
120-12-7	Anthracene	0.66	13	20	
206-44-0	Fluoranthene	2.0	13	25	
129-00-0	Pyrene	0.86	13	22	
56-55-3	Benzo(a)anthracene	0.86	13	21	
218-01-9	Chrysene	0.96	13	19	
205-99-2	Benzo(b)fluoranthene	0.86	13	19	
207-08-9	Benzo(k)fluoranthene	0.66	13	16	
50-32-8	Benzo(a)pyrene	0.58	13	17	
193-39-5	Indeno(1,2,3-cd)pyrene	0.56	13	15	
53-70-3	Dibenzo(a,h)anthracene	0.51	13	15	
191-24-2	Benzo(g,h,i)perylene	0.58	13	13	

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Date : 31-MAY-2010 05:51
Client ID: SS50-0-1MSD
Sample Info: 0051831-MSD1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Report Date: 24-Jun-2010 11:49

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Lab Smp Id: 0051831-MSD1 Client Smp ID: SS50-0-1MSD
Inj Date : 31-MAY-2010 05:51
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0051831-MSD1:2743
Misc Info : SS50-0-1MSD
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100530C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-Jun-2010 11:49 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 6 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	34.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.557	5.543	(1.000)	96673	2.00000	
* 2 Naphthalene-d8	136	7.799	7.785	(1.000)	345041	2.00000	
* 3 Acenaphthene-d10	164	11.217	11.206	(1.000)	141901	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.087	(1.000)	234242	2.00000	
* 5 Chrysene-d12	240	19.362	19.336	(1.000)	151251	2.00000	
* 6 Perylene-d12	264	22.015	21.960	(1.000)	115867	2.00000	
$ 9 Nitrobenzene-d5	82	6.561	6.547	(0.841)	65691	0.85559	22
$ 10 2-Fluorobiphenyl	172	9.950	9.936	(0.887)	75889	0.51250	13
$ 12 Terphenyl-d14	244	17.347	17.334	(0.896)	53594	0.97522	25
13 Naphthalene	128	7.825	7.825	(1.003)	130498	0.61145	15
15 2-Methylnaphthalene	141	9.155	9.141	(0.816)	71703	0.70577	18
17 Acenaphthylene	152	10.904	10.893	(0.972)	121594	0.76712	19
18 Acenaphthene	154	11.269	11.258	(1.005)	67154	0.72310	18

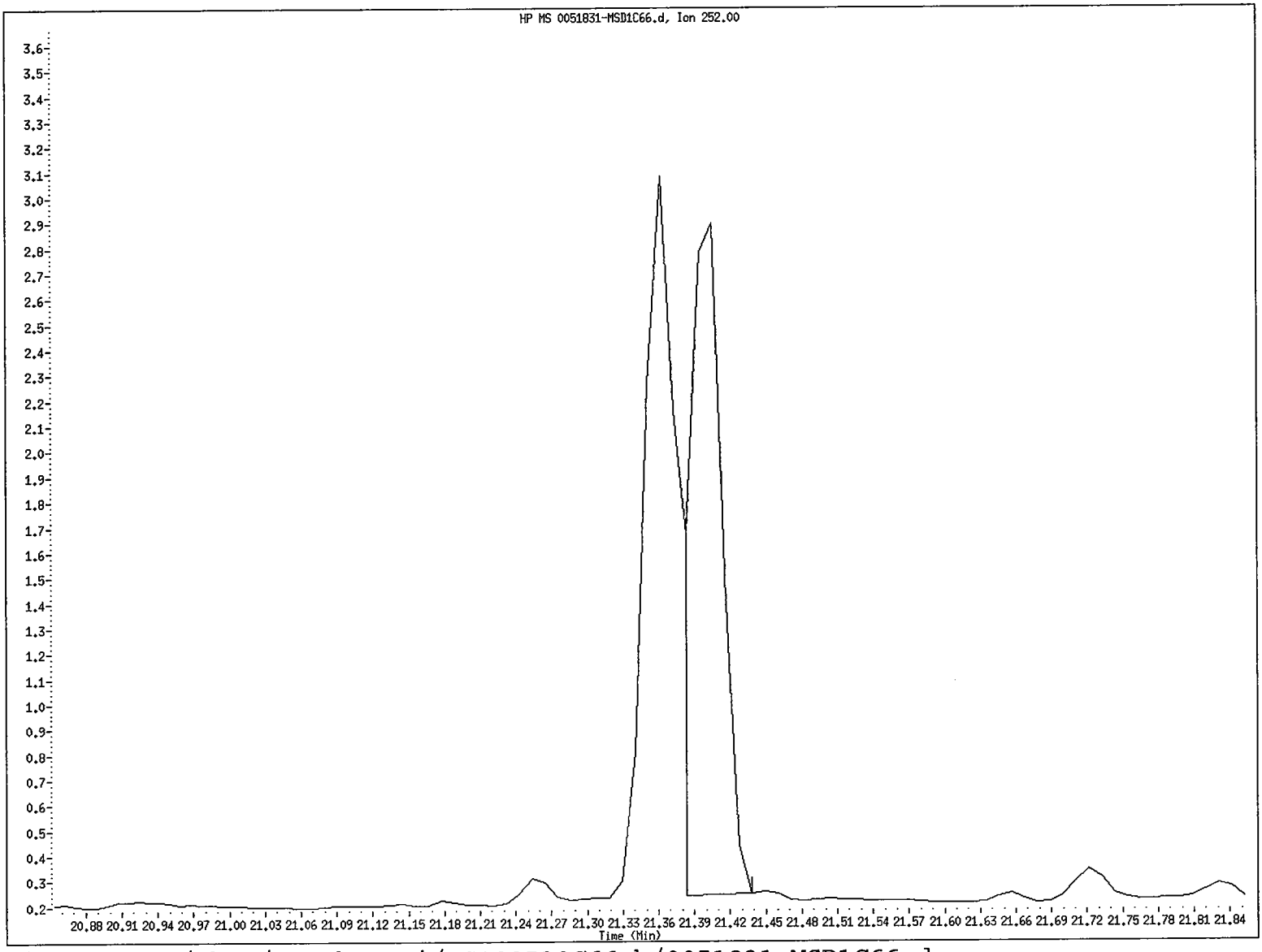
Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Report Date: 24-Jun-2010 11:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	12.273	12.261	(0.870)	80034	0.73005	18
25 Phenanthrene	178	14.140	14.126	(1.003)	111150	0.76097	19
26 Anthracene	178	14.231	14.218	(1.009)	102041	0.77667	20
27 Fluoranthene	202	16.513	16.486	(0.853)	99302	0.99012	25
28 Pyrene	202	16.930	16.917	(0.874)	95348	0.87298	22
29 Benzo(a)anthracene	228	19.336	19.302	(0.999)	68362	0.83145	21
30 Chrysene	228	19.414	19.380	(1.003)	66415	0.74577	19
31 Benzo(b)fluoranthene	252	21.362	21.318	(0.970)	58269	0.76256	19
32 Benzo(k)fluoranthene	252	21.406	21.350	(0.972)	52055	0.63304	16(H)
33 Benzo(a)pyrene	252	21.907	21.862	(0.995)	46812	0.67981	17
34 Indeno(1,2,3-cd)pyrene	276	24.116	24.028	(1.095)	36639	0.60311	15(M)
35 Dibenzo(a,h)anthracene	278	24.181	24.082	(1.098)	36612	0.60925	15(M)
36 Benzo(g,h,i)perylene	276	24.737	24.616	(1.124)	34352	0.51018	13(M)

QC Flag Legend

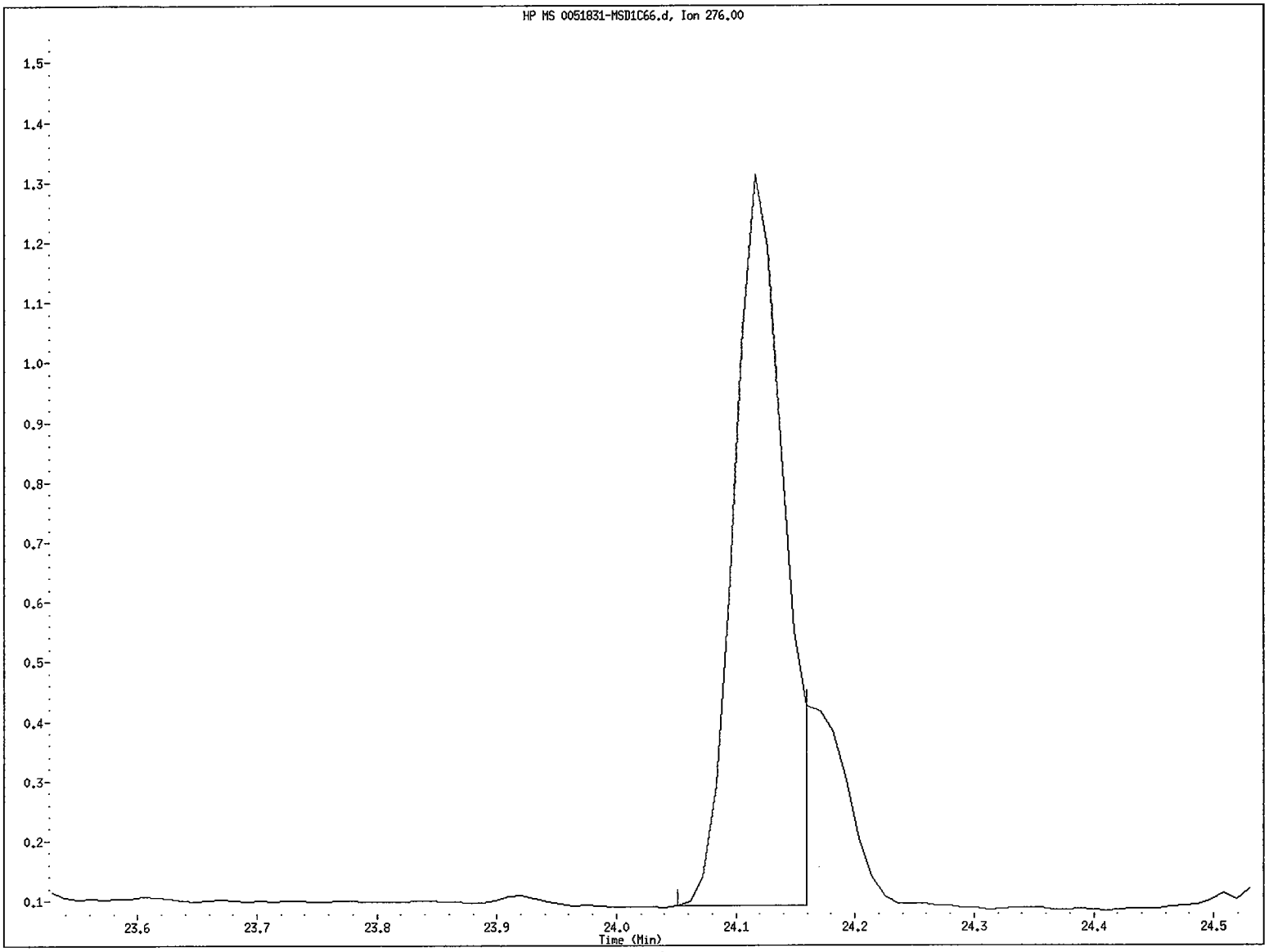
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 52055 User selected hit



File name: /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Client ID: SS50-0-1MSD
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 05:51
Retention Time: 21.41
Operator ID: 2743

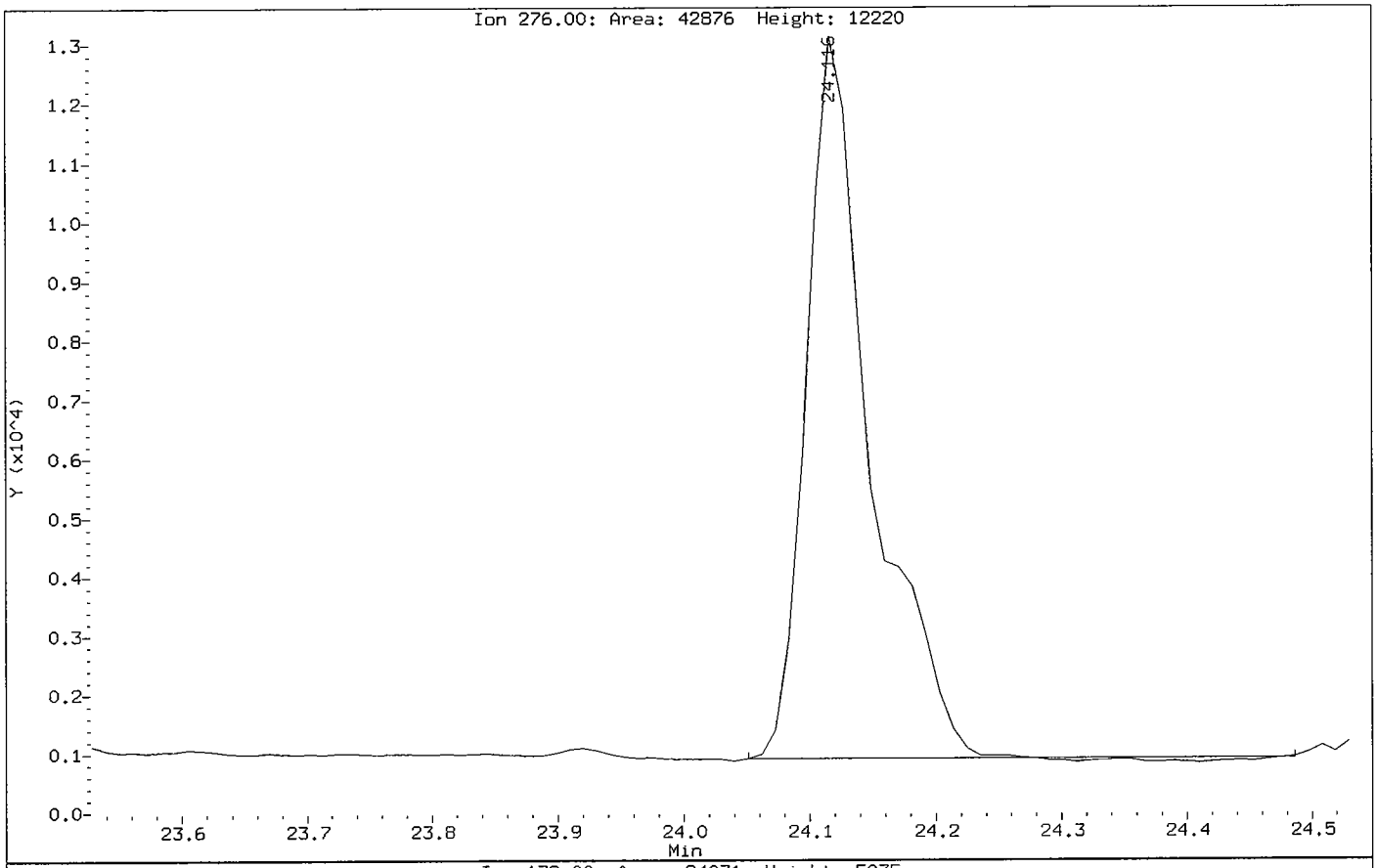
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 36639 Manually integrated

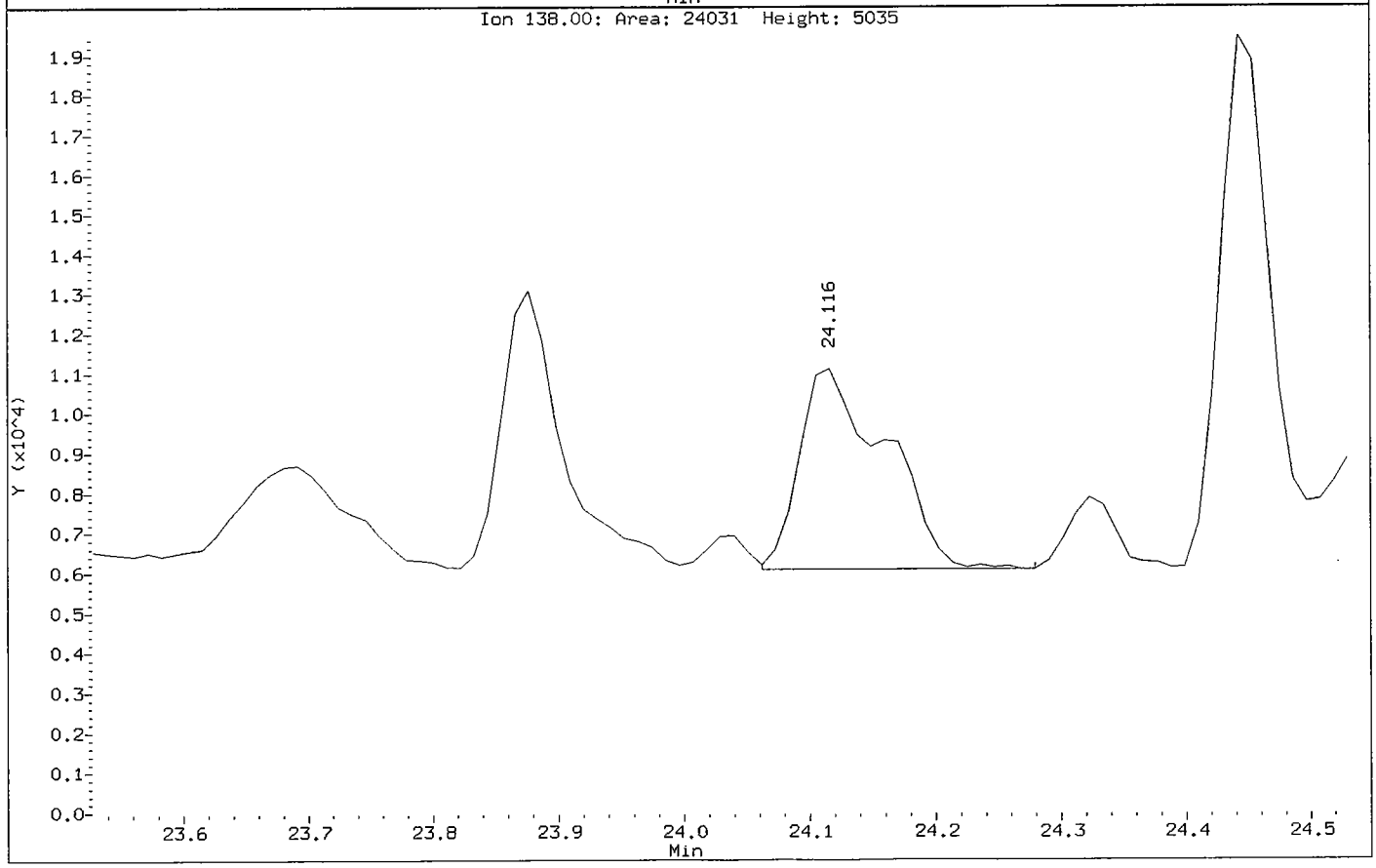


File name: /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Client ID: SS50-0-1MSD
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 05:51
Retention Time: 24.12
Operator ID: 2743

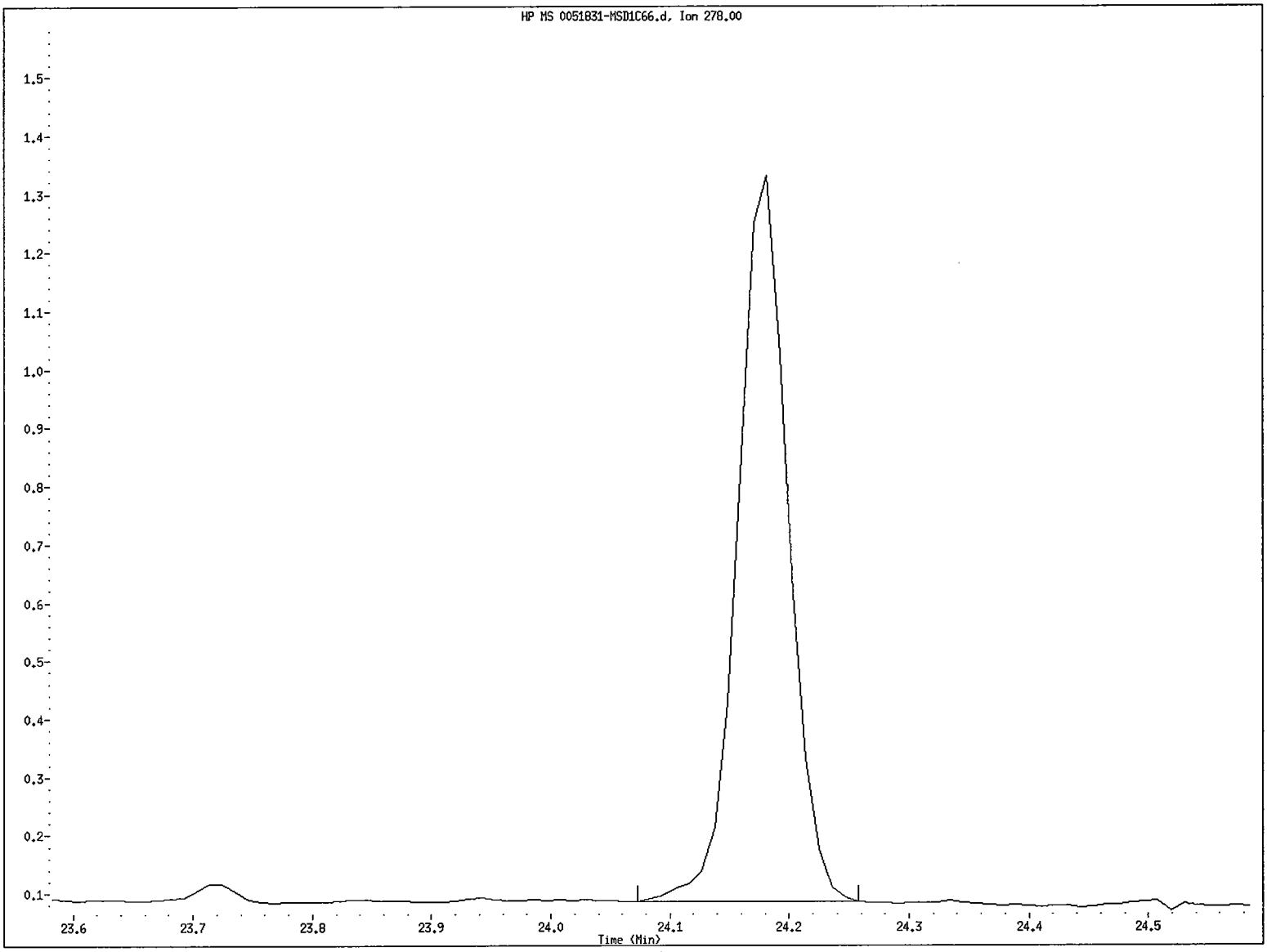
Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Injection Date: 31-MAY-2010 05:51
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1MSD

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5



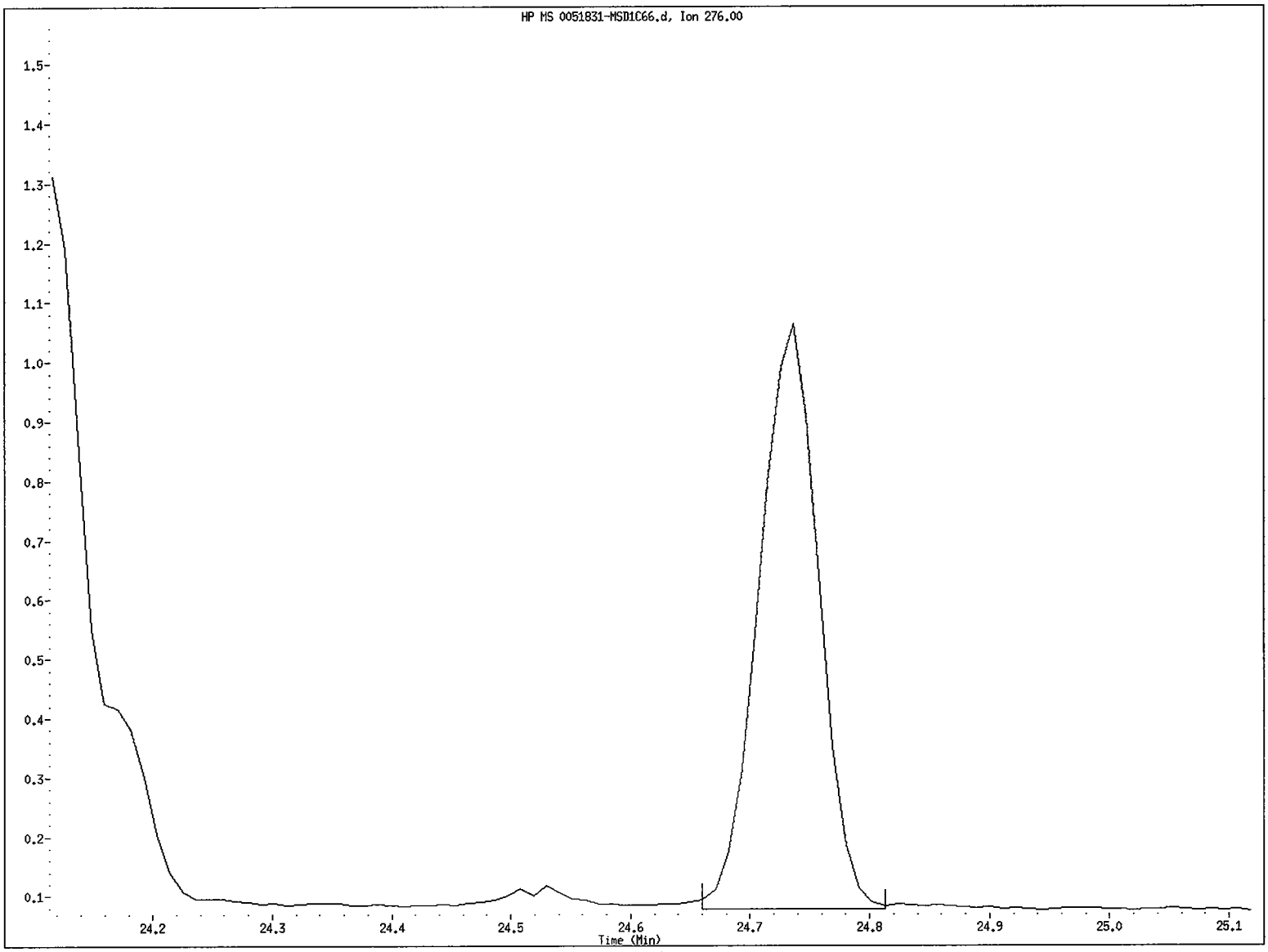


Dibenzo(a,h)anthracene CAS Number 53-70-3 Area = 36612 Manually integrated



File name: /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Client ID: SS50-0-1MSD
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 05:51
Retention Time: 24.18
Operator ID: 2743

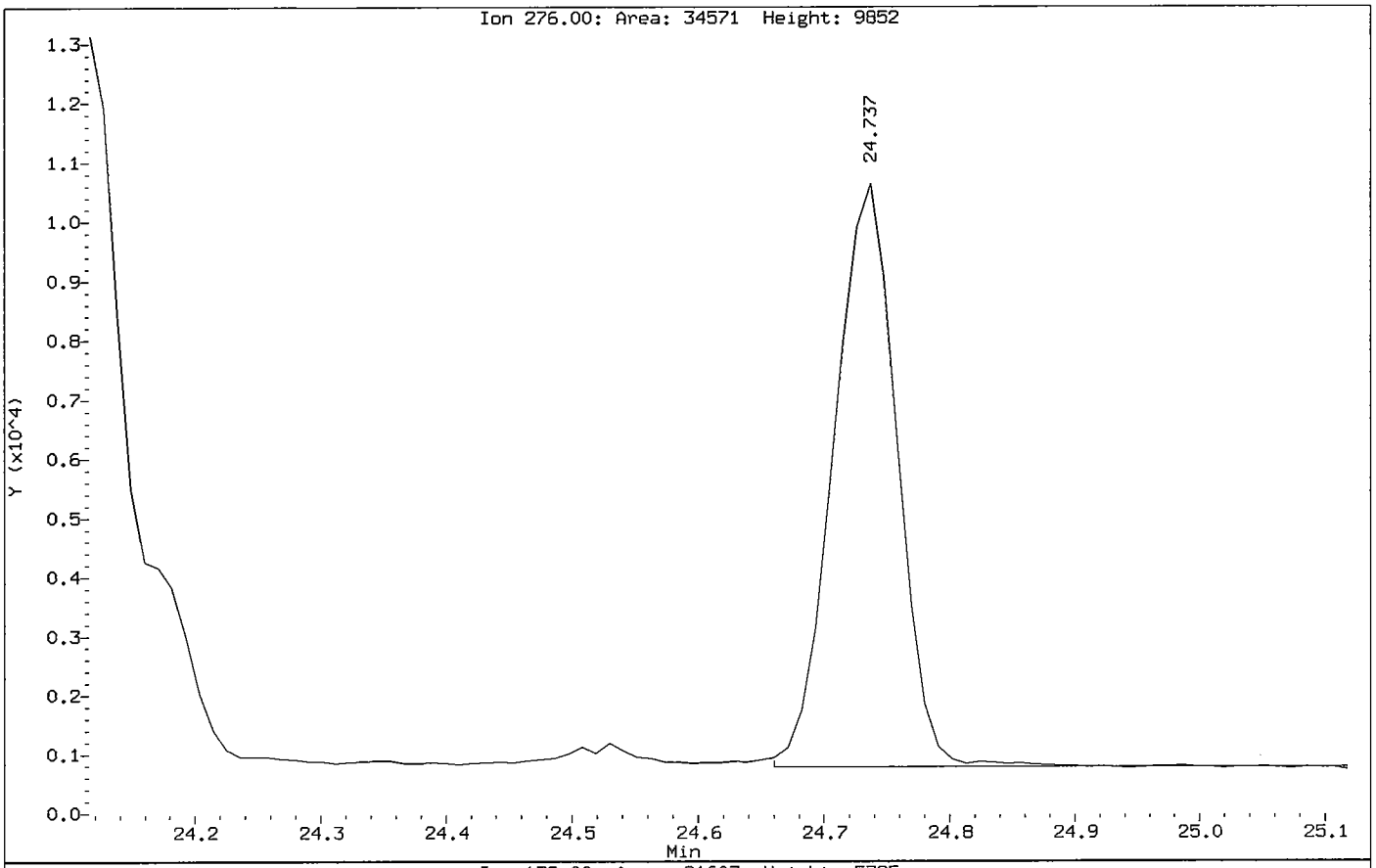
Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 34352 Manually integrated

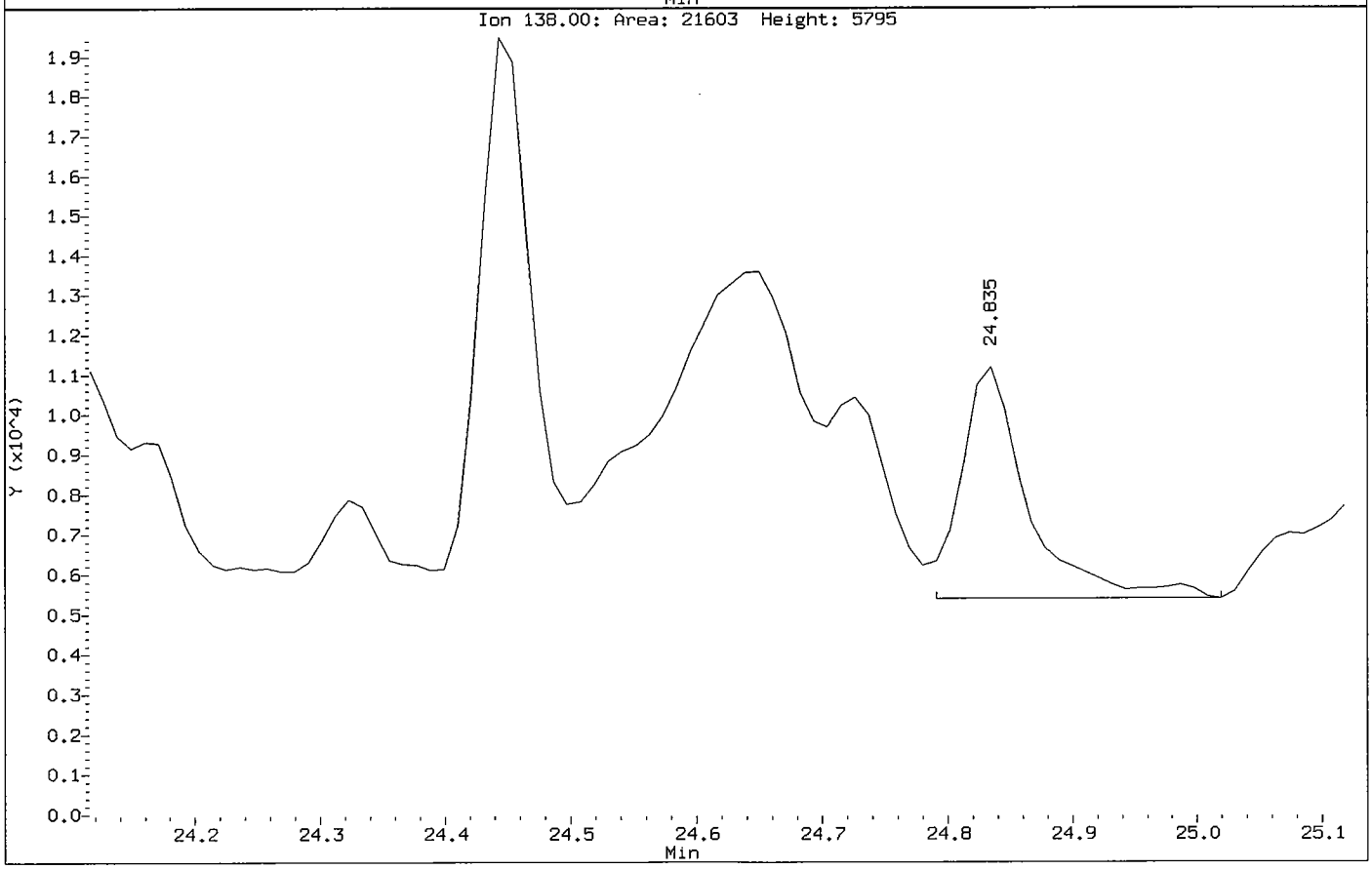


File name: /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Client ID: SS50-0-1MSD
Instrument ID: 5972hp66.i
Injection Date and Time: 31-MAY-2010 05:51
Retention Time: 24.74
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100530C66.b/0051831-MSD1C66.d
Injection Date: 31-MAY-2010 05:51
Instrument: 5972hp66.i
Client Sample ID: SS50-0-1MSD

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





CompuChem

A Division Of

Liberty Analytical Corp.

6/8/2010

REBEKHA SHAW

CH2M HILL, INC.

P.O. BOX 241329

DENVER, CO 80224

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM
WorkOrder: 1005130

Attn. REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES ____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem
A Division Of
Liberty Analytical Corp.

SDG NARRATIVE
SDG # 1005130

The 20 soil samples were received intact, with proper documentations, in sealed shipping containers, on May 13th and 14th, 2010. The samples were scheduled for the requested analyses of the Wet Chemistry fraction. The samples were analyzed, in accordance with current EPA methods, for the analytes requested as per the COC, with the exceptions and/or additions requested by the client.

SAMPLE IDs:

The cover page contained in this package lists the client ID's and the associated CompuChem numbers which are part of this SDG.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCS & Blank) were found to be within acceptable ranges. All field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

SS50-0-1 (1005130-07) was requested to use as the original to prepare matrix spike and matrix spike duplicate. The MS/MSD criteria were not met due to matrix interference.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Preeti Khare
Data Reviewer I
June 8th, 2010

Organic Undecanted Dry Weight Worksheet

0051832

Procedure: 143/190

B. Patterson/A. Lake — Employee

2713/2728 — ID No

Temp in: 105°C

Temp out: 105°C

Date Assigned: 5-19-10

Date/Time in: 5-19-10 1810

Date/Time out: 5-21-10 1600

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1005130-01	SS23-00-01	Sample	1.32	7.56	6.92
1005130-02	SB23-1.5-2	Sample	1.34	7.91	6.67
1005130-03	SS24-0-1	Sample	1.34	8.34	7.55
1005130-04	SB24-3-4	Sample	1.34	7.87	6.74
1005130-05	SS49-0-1	Sample	1.33	7.82	7.29
1005130-06	SB49-11-12	Sample	1.34	7.73	6.20
1005130-07	SS50-0-1	Sample	1.33	7.48	5.38
1005130-08	SB47-14-15	Sample	1.33	8.67	6.38
1005130-09	SS47-0-1	Sample	1.32	8.27	6.89
1005130-10	SS11-0-1	Sample	1.33	8.36	8.09
1005130-11	SB11-11-12	Sample	1.34	8.94	7.39
1005130-12	SB48-7-8	Sample	1.32	8.22	6.76
1005130-13	SS48-0-1	Sample	1.33	8.55	7.56
1005130-14	SS18-0-1	Sample	1.33	9.04	8.46
1005130-15	SB18-12-13	Sample	1.34	7.88	6.86
1005130-16	SS25-0-1	Sample	1.31	7.56	7.26
1005130-17	SB25-3-4	Sample	1.31	7.97	7.55
1005130-18	SS08-0-1	Sample	1.32	7.36	6.75
1005130-19	SB08-6-7	Sample	1.33	8.18	7.04
1005130-20	SS05-0-1	Sample	1.34	7.84	6.48

Entered into Element by: [signature] 5-24-10

Date

2

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS23-00-01	1005130-01	Soil	05/10/2010 16:20	05/13/2010 09:30
SB23-1.5-2	1005130-02	Soil	05/10/2010 16:30	05/13/2010 09:30
SS24-0-1	1005130-03	Soil	05/11/2010 10:45	05/13/2010 09:30
SB24-3-4	1005130-04	Soil	05/11/2010 10:55	05/13/2010 09:30
SS49-0-1	1005130-05	Soil	05/11/2010 14:05	05/13/2010 09:30
SB49-11-12	1005130-06	Soil	05/11/2010 14:22	05/13/2010 09:30
SS50-0-1	1005130-07	Soil	05/11/2010 14:45	05/13/2010 09:30
SB47-14-15	1005130-08	Soil	05/12/2010 09:40	05/13/2010 09:30
SS47-0-1	1005130-09	Soil	05/12/2010 09:10	05/13/2010 09:30
SS11-0-1	1005130-10	Soil	05/12/2010 16:05	05/13/2010 09:30
SB11-11-12	1005130-11	Soil	05/12/2010 16:20	05/13/2010 09:30
SB48-7-8	1005130-12	Soil	05/12/2010 11:30	05/13/2010 09:30
SS48-0-1	1005130-13	Soil	05/12/2010 11:00	05/13/2010 09:30
SS18-0-1	1005130-14	Soil	05/12/2010 15:05	05/14/2010 09:20
SB18-12-13	1005130-15	Soil	05/12/2010 15:20	05/14/2010 09:20
SS25-0-1	1005130-16	Soil	05/13/2010 11:05	05/14/2010 09:20
SB25-3-4	1005130-17	Soil	05/12/2010 11:10	05/14/2010 09:20
SS08-0-1	1005130-18	Soil	05/13/2010 12:40	05/14/2010 16:00
SB08-6-7	1005130-19	Soil	05/13/2010 13:00	05/14/2010 16:00
SS05-0-1	1005130-20	Soil	05/14/2010 08:00	05/14/2010 16:00

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS23-00-01
1005130-01 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.23	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**3.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB23-1.5-2
1005130-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.47	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS24-0-1

1005130-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**0.56**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.25	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**0.560**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB24-3-4
1005130-04 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**5.70**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.42	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**5.70**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS49-0-1

1005130-05 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**5.50**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.18	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**5.50**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB49-11-12

1005130-06 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**22.1**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.70**	J	2.63	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**20.8**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS50-0-1

1005130-07 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.10**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	3.03	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.10**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB47-14-15
1005130-08 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**21.8**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.91	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**21.8**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS47-0-1

1005130-09 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.50	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**2.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS11-0-1

1005130-10 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.70**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.08	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.70**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB11-11-12

1005130-11 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**15.4**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.31**	J	2.51	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**14.4**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB48-7-8

1005130-12 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.20**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.54	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**2.20**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS48-0-1

1005130-13 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	ND		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.32	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	ND		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS18-0-1
1005130-14 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.40**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.16	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**2.40**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB18-12-13
1005130-15 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**9.60**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.37	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**9.60**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS25-0-1

1005130-16 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.60**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.60**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB25-3-4
1005130-17 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.10**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.13	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**3.10**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS08-0-1
1005130-18 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**10.0**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.22	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**10.0**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SB08-6-7

1005130-19 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**13.9**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.63**	J	2.40	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**12.5**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

SS05-0-1
1005130-20 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**1.90**		0.50	mg/kg	1	0060731	06/07/2010 16:40	06/08/2010 12:43	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.53	mg/kg dry	1	0052017	05/20/2010 10:56	06/03/2010 12:08	EPA 7196A
Trivalent Chromium	**1.90**		0.500	mg/kg	1	[CALC]	06/07/2010 16:40	06/08/2010 12:43	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

WET CHEMISTRY PARAMETERS - Quality Control

COMPUCHEM

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0052017 - Default Prep GenChem										
Blank (0052017-BLK1)				Prepared: 05/20/2010 10:56 Analyzed: 06/03/2010 12:08						
Hexavalent Chromium	ND	2.00	mg/kg wet							
LCS (0052017-BS1)				Prepared: 05/20/2010 10:56 Analyzed: 06/03/2010 12:08						
Hexavalent Chromium	153	4.00	mg/kg wet	240.0		63.7	25-175			
Matrix Spike (0052017-MS1)		**Source: 1005130-07**		Prepared: 05/20/2010 10:56 Analyzed: 06/03/2010 12:08						
Hexavalent Chromium	5.94	3.03	mg/kg dry	60.70	0.00	9.79	75-125			
Matrix Spike Dup (0052017-MSD1)		**Source: 1005130-07**		Prepared: 05/20/2010 10:56 Analyzed: 06/03/2010 12:08						
Hexavalent Chromium	6.33	3.03	mg/kg dry	60.70	0.00	10.4	75-125	6.33	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/08/2010 16:31

Notes and Definitions

U	The compound was analyzed for but not detected (CLP U-flag).
J	Compound detected below the Reporting Limit; therefore, result is an estimated concentration (CLP J-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.01:4045
	HEXAVALENT CHROMIU (SOIL)		Result calculations based on MDL
	HEXAVALENT CHROMIU (SOIL)		Special Units: (mg/kg)
	Total Cr by Metals	(Soil)	Result calculations based on MDL
	Total Cr by Metals	(Soil)	Special Units: (mg/kg)
0052017-MS1	HEXAVALENT CHROMIU	Hexavalent Chromium	Exceeds lower control limit
0052017-MSD1	HEXAVALENT CHROMIU	Hexavalent Chromium	Exceeds lower control limit

CompuChem
a Division of Liberty Analytical Corp.

Hexavalent Chromium-METHOD 3060A/7196A

Initial Calibration Log

Analyst: MC

Analysis Date: 6-3-10

Work Order(s): 1005130

Calibration Data		
Absorbance Reading	Theoretical Concentration (mg/L)	Calculated Concentration (mg/L)
0.000	0	0.00474
0.031	0.05	0.02414
0.064	0.1	0.04479
0.257	0.4	0.16557
0.653	1	0.41338
1.245	2	0.78385

Regression Output	
Constant	0.004736878
Correlation Coeff.	0.999711037
No. of Observations	5
Degrees of Freedom	4
X Coefficient(s)	0.625796826

Analytical Sequence Log

Compuchem Sample ID	Final Absorbance (sample - backgoun	Calculated Concentration (mg/L)	Calculated Concentration (mg/kg)	Comments
ICV	0.650	1.0311	41.2443	
PB	0.000	-0.0076	-0.3028	
LCS	1.999	3.1868	127.4703	over/ see dilution
513001	-0.084	-0.1418	-5.6719	
513002	0.000	-0.0076	-0.3028	
513003	-0.060	-0.1034	-4.1379	
513004	-0.130	-0.2153	-8.6122	
513005	-0.005	-0.0156	-0.6224	
513006	0.025	0.0324	1.2952	
513007	-0.016	-0.0323	-1.2935	
MS	0.066	0.0979	3.9158	
CCV	0.257	0.4031	16.1243	
CCB	0.000	-0.0076	-0.3028	
MSD	0.070	0.1043	4.1715	
513008	-0.037	-0.0667	-2.6678	
513009	0.001	-0.0060	-0.2389	
513010	0.000	-0.0076	-0.3028	
513011	0.021	0.0260	1.0395	
513012	0.000	-0.0076	-0.3028	
513013	0.000	-0.0076	-0.3028	
513014	-0.020	-0.0395	-1.5811	
513015	0.002	-0.0044	-0.1749	
513016	-0.025	-0.0475	-1.9007	
CCV	0.257	0.4031	16.1243	
CCB	0.000	-0.0076	-0.3028	
513017	-0.002	-0.0108	-0.4306	
513018	-0.051	-0.0891	-3.5626	
513019	0.026	0.0340	1.3591	
513020	0.000	-0.0076	-0.3028	
LCS 2X	1.200	1.9100	76.3994	124.4190 mg/kg
CCV	0.256	0.4015	16.0604	
CCB	0.000	-0.0076	-0.3028	

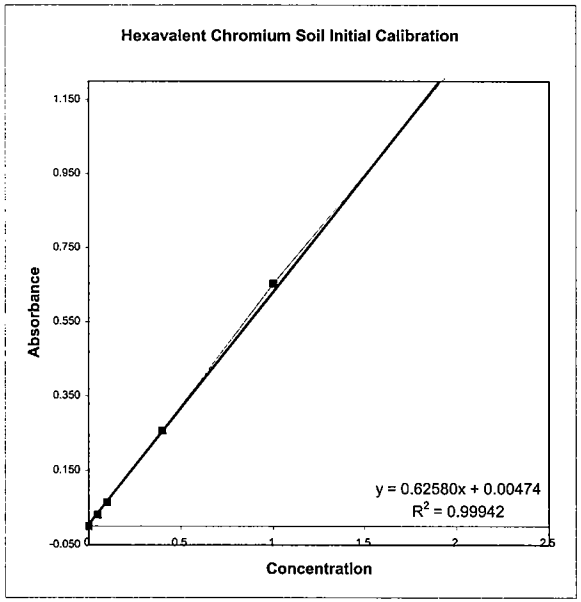
Reviewed by: [signature]

Date: 6-9-10

CompuChem
A Division Of
Liberty Analytical Corp.

Hexavalent Chromium-METHOD 3060A/7196A

Initial Calibration Log



Reviewed by:_____

Date:_____

Reagents/Standards Preparation Log for Hexavalent Chromium

CompuChem a division of Liberty Analytical Corp.1 UUUU

NAME	PREPARATION INSTRUCTIONS	PREPARED BY	DATE
Cr (VI) Digestion Solution NaOH Ref# 1u(6)1-13-28 Na_2CO_3 Ref# 1u(6)1-13-24	Place in a 1L volumetric flask: 20 g of NaOH 30 g of Na_2CO_3 Dilute to the volume with reagent water. Place solution in a Teflon bottle. Prepare fresh monthly or as needed	JM	06 01 10
Cr (VI) Stock Standard A Solution (**1000 mg/L**) Ref# 1u(6)1-17-25	N/A; Prepared by NSI - Hexavalent Chromium stock standard at 1000 mg/L	NSI	**EXP: 01/11**
Cr (VI) Intermediate Standard Solution (**10 mg/L**) Ref# 1u(6)1-17-25	Place in a 100 mL volumetric flask: 1mL of Cr (VI) Stock Standard Solution Dilute to volume reagent water. Prepare fresh daily	JM	06 01 10
Cr (VI) Stock Standard B Solution (**1000 mg/L**) Ref# 1u(6)1-18-2	N/A; Prepared by Alpha Aesar - Hexavalent Chromium stock standard at 1000 mg/L	JM	06 01 10
Cr (VI) Intermediate Standard Solution (**10 mg/L**) Ref# 1u(6)1-18-2	Place in a 100 mL volumetric flask: 1mL of Cr (VI) Stock Standard B Solution Dilute to volume reagent water. Prepare fresh daily	JM	06 01 10
2.0 ppm Standard	Place in a 100 mL volumetric flask: .2 ml of Cr (VI) Stock Standard Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
1.0 ppm Standard	Place in a 100 mL volumetric flask: .1 mL of Cr (VI) stock Standard Solution 50 ml of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
0.4 ppm Standard **(use for CCV)**	Place in a 100 mL volumetric flask: 4 mL of Cr (VI) **Intermediate** Standard Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10

Reagents/Standards Preparation Log for Hexavalent Chromium

CompuChem a division of Liberty Analytical Corp.1 UUUU

30

NAME	PREPARATION INSTRUCTIONS	PREPARED BY	DATE
0.1 ppm Standard **USE FOR LOQ**	Place in a 100 mL volumetric flask: 1 mL of Cr (VI) **Intermediate** Standard Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
0.05 ppm Standard **USE FOR MDL and LOD**	Place in a 100 mL volumetric flask: .5 mL of Cr (VI) **Intermediate** Standard Stock Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
ICV 1.0 ppm	Place in a 100 mL volumetric flask: .1 mL of Cr (VI) Cr (VI) Stock Standard B 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 01 10
ICB/CCB	50 mL of Cr (VI) Digestion solution in 50 ml of DI water	JM	06 01 10
LCS TV=240 mg/kg Hexavilent chromium in soil Ref# 1u(6)1-19-3	Place in a 250 mL beaker: Weigh 2.5g of Hexavalent Chromium reference standard 50 mL of Cr (VI) Digestion solution	JM	06 01 10
Matrix Spiking Solution Ref#:1u(6)1-17-25	Spike .1 ml of the 1000 ppm stock standard in 2.5 g of the original	JM	06 01 10
Phosphate Buffer Solution K2hpo4Ref# 1U(6)1-14-16 Kh2po4Ref#1u(6)1-12-21	Place in 1 L volumetric flask: 87.09g of K_2HPO_4 and 68.04 g of KH_2PO_4 Dilute to volume with reagent water. Prepare fresh every six months	JM	06 01 10
Diphenylcarbazide Solution Ref#:1U(6)1-15-22	Place in a 100 mL volumetric flask: 0.5 g of 1,5-diphenylcarbazide Dilute to volume with acetone. Prepare fresh monthly of sooner, if solution becomes colored.	JM	06 03 10

Reviewed by: _____ Date: 6-7-10 The presence of the Chemist's/Analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

11-18-09 jm

Hexavalent Chromium Analysis Log

Modified Method SW-846: 7196A

Analyst [signature] Date: 6-3-2010

SDG ID 1005130 Correlation Coefficient See Run Log

Reviewed By: _____ Slope: _____

Date: _____ Intercept: _____

#	Sample ID	Acidic pH	Uncorrected Absorbance	Background Abosrbance	Corrected Absorbance	Dilution	Concentration	Color	Read Time
	0.0	1.6 ± 22							
	0.05								
	0.1								
	0.4								
	1.0								
	2.0								
	ICV						NP	NP	
1	MB		.000	.000	.00	1			17:00
2	LCS		1.999	.010	need dilution	1			
3	1005130-01		.076	.160	-0.084	1			
4	02		.005	.005	.000	1			
5	03		.040	.100	-.060	1			
6	04		.070	.200	-.130	1			
7	05		.015	.020	-.005	1			
8	06		.040	.015	.025	1			
9	07		.245	.400	-0.155	1			
10	MS		.166	.100	0.066	1			
	CCV		.257	.000	.257	1			
	CCB		.000	.000	.000	1			
1	MSD		.290	.220	0.070	1			
2	08		.024	.061	-0.037	1			
3	09	.042	~~.060~~	.041	0.000	1			
4	10		.034	.034	.000	1			
5	11		.044	.023	0.021	1			
6	12		.060	.060	0.000	1			
7	13		.032	.032	0.000	1			
8	14		.040	.060	-0.020	1			
9	15		.016	.014	0.020	1			
10	16		.028	.053	-0.025	1			
	CCV		.257	.000	.257	1			
	CCB		.000	.000	.000	1			

See 1005129 Run Log 6-3-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/5/06:jad

Hexavalent Chromium Analysis Log

Modified Method SW-846: 7196A

Analyst [signature] Date: 6-3-2010

SDG ID 1005130 Correlation Coefficient See Run

Reviewed By: _____ Slope: _____

Date: _____ Intercept: _____

#	Sample ID	Acidic pH	Uncorrected Absorbance	Background Abosrbance	Corrected Absorbance	Dilution	Concentration	Color	Read Time
	17	1.6	.018	.020	-0.002	1	NA	NA	
	18		.063	.114	-0.051	1			
	19		.029	.003	0.026	1			
	20		.026	.026	.000	1			
	LCS 2x		1.210	.010	1.200	1			
	CCV		.256	.000	256	1			
	CCB		.000	.000	.000	1			18:10
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
	CCV								
	CCB								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
	CCV								
	CCB								

6-3-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/5/06:jad

~~43~~ 6-3-10

CompuChem, a division of Liberty Analytical Corp.

Worksheet 1 K (8) **Cr(VI) DIGESTION PREP** Page __1___ of __1___

SDG # **1005130** **SW-846 Method 3060A**

Analyst No.: 2477 Date: ~~5-24-10~~ 6-1-10

CompuChem No.	Sample Type	Sample weight (gms)	Hot Plate Temp °C	Sample filtered? (Y or N)	Final volume (mL)	Comments
0052017-BLK1	Blank	2.5	95	Y	100	
0052017-BS1	LCS	2.50				
1005130-01	Sample	2.51				
1005130-02	Sample	2.50				
1005130-03	Sample	2.50				
1005130-04	Sample	2.53				
1005130-05	Sample	2.51				
1005130-06	Sample	2.52				
1005130-07	Sample	2.50				
0052017-MS1	MS	2.50				
0052017-MSD1	MSD	2.50				
1005130-08	Sample	2.52				
1005130-09	Sample	2.53				
1005130-10	Sample	2.50				
1005130-11	Sample	2.51				
1005130-12	Sample	2.52				
1005130-13	Sample	2.50				
1005130-14	Sample	2.52				
1005130-15	Sample	2.50				
1005130-16	Sample	2.52				
1005130-17	Sample	2.51				
1005130-18	Sample	2.50				
1005130-19	Sample	2.53				
1005130-20	Sample	2.51				

Digestion Solution -	06 01 10
Phosphate Buffer Solution -	06 01 10

Digestion Time Start - _____

Matrix Spiking Solution (100mg/L CrVI) - 052206jm 1.0

Digestion Time Stop - _____

NaOH ref #	~~06 01 10~~ 10(6)1-13-28
K_2HPO_4 ref #	10(6)1-14-16
KH_2PO_4 ref #	10(6)1-12-21

Reviewed By: _____ Date: 6-8-10

The presence of the Chemist's/analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Generated on: 5/24/2010 9:36 AM

3/24/10:jad

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS23-00-01

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-01

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 89.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	3.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB23-1.5-2

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-02

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 81.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.4			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS24-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-03

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.56	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB24-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-04

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 82.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	5.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS49-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-05

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	5.5			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB49-11-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-06

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 76.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	22.1			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS50-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-07

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 65.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.1	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB47-14-15

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-08

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 68.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	21.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS47-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-09

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 80.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS11-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-10

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB11-11-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-11

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	15.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB48-7-8

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-12

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 78.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2.2			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS48-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-13

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 86.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	0.40	B		P

Color Before: GREY Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS18-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-14

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 92.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	2.4			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB18-12-13

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-15

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 84.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	9.6			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS25-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-16

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB25-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-17

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	3.1			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS08-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-18

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 89.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	10.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB08-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-19

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 83.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	13.9			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS05-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005130

Matrix (soil/water): SOIL Lab Sample ID: 1005130-20

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 79.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-47-3	Chromium	1.9			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: YELLOW Clarity After: Artifacts:

Comments:

24804

54

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St Ste 101
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: REBEKHA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS/RAH

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)? NO

Analyses Requested (Include method and container type)

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	SIM PAH 3550B/8270C	TCL PEST. 3550/8081A	Chromium VI, ~~ST~~ 7196A	Metals 6010B/7471A	GRAINSIZE ASTM D422	Total Chromium 6010B	Grain size					
1005130-01	BBG-SS23-00-01-10B	5-10-10	1620	SO	3							X	X	X		X	X	1005166-01					
-02	BBG-SB23-1.5-2-10B	5-10-10	1630	SO	3							X	X	X		X	X		-02				
1005129-01	BBG-SS55-00-01-10B	5-11-10	0740	SO	3							X	X	X	X	X		@	-03				
-02	BBG-SB55-2.5-3-10B	5-11-10	0750	SO	3							X	X	X	X	X			-04				
-03	BBG-SS54-0-1-10B	5-11-10	0840	SO	3							X	X	X	X	X		1005210-18					
-04	BBG-SB54-4-5-10B	5-11-10	0850	SO	3							X	X	X	X	X		1005166-05					

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By: CAK
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time:	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? GRAINSIZE TO CT LABS
Custody Seal(s) intact? Ø or N
On Ice? Ø or N
Cooler Temp: Ø.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

24805

55

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 CLEVELAND ST STE
City: VIRGINIA BEACH State: VA Zip: 23462
Project Contact: ROBECCA SHAW
Phone #: 757-671-6279
Sampler's Name: K. ROGERS / RDL

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMLEJ
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N) NA
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Requested Analysis (Indicate method and container type)

Matrices

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	(1) SIM PAH 3550B/8270C	TCL PESTICIDES 3550/8081A	CHROMIUM VI 7196A	METALS 6010B/7471A	GRAINSIZE ASTM D422	TOTAL CHROMIUM 6010B		GRAINSIZE	
1005129-05	BBG-SS53-0-1-10B	5.11.10	0930	SO	3							X	X	X	X	X			1005166-06	
-05	BBG-SS53-0-1-10B MS	5.11.10	0930	SO	3							X	X	X	X					
-05	BBG-SS53-0-1-10B SD	5.11.10	0930	SO	3							X	X	X	X					
-06	BBG-SB53-7-8-10B	5.11.10	0955	SO	3							X	X	X	X	X			1005166-07	
1005130-03	BBG-SS24-0-1-10B	5.11.10	1045	SO	3							X	X	X		X	X		1005166-08	
-04	BBG-SB24-3-4-10B	5.11.10	1055	SO	3							X	X	X		X	X		1005166-09	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or N A
625 & Phenol samples checked for chlorine? Y or N A
608 samples checked for pH between 5.0-9.0? Y or N A

Comments

Sample Custody

Relinquished by:	Date/Time: 5-12-10/ 1300	Received by: K. Manning	Date/Time: 5/13/10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? GRAINSIZE to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24807

56

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. ROGERS	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: SIM PAH 8270C/3550B	TCL PEST. 3550/8081A	Chromium VI, #1 (6010B/3060A) 2oz	MGNUS 6010B/7471A 8oz	GRAINSIZE ASTMD422	TOTAL CHROMIUM (6010B)		Grain size		
1005130-05	BBG-SS49-0-1-10B	5-11-10	1405	SO	3							X	X	X		X	X		1005166-10		
↓ -06	BBG-SB49-11-12-10B	5.12.10	1422	SO	3							X	X	X		X	X			-11	
1005129-07	BBG-SS80-0-1-10B	5-12-10	0755	SO	3							X	X	X	X	X				-12	
↓ -08	BBG-SB80-3-4-10B	5-12-10	0800	SO	3							X	X	X	X	X				-13	
1005130-07	BBG-SS50-0-1-10B	5-11-10	1445	SO	3							X	X	X		X	X		↓	-14	
-07	BBG-SS50-0-1-10B-MS	5-11-10	1445	SO	3							X	X	X		X	X				
↓ -07	BBG-SS50-0-1-10B-SD	5-11-10	1445	SO	3							X	X	X		X	X				

Lab Use Only

Sample Unpacked By: Diane Boyd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

SB49-11-12-10B Sample time reads 1420 DB 4/13/10

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: Diane Boyd	Date/Time: 5-13-10 0930
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 0.2 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24806

Page 1 of 1

57

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 2oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St Ste 101	Sampling Location: MCB CAMLEJ
City: VIRGINIA BEACH State: VA Zip: 23462	Turnaround time: PER CONTRACT
Project Contact: REBEKHA SHAW	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. ROGERS/KOU	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Requested Analysis: SIM PAH 3550B/8270C	TCL Pest. 3550/8081A	Chromium VI, ~~7196A~~ 7196A	Metals 6010B/7471A	Grain Size ASTM D422	Total Chromium 6010B		Gran Size	Comments
1005129-09	BBG-SB56-0-1-10B	5/11/10	1125	SO	3							X	X	X	X	X			1005166-15	
-10	BBG-SB56-3-4-10B	5-11-10	1130	SO	3		BBG-SB56-3-4-10B					X	X	X	X	X			-16	
-11	BBG-SB58-0-1-10B	5-12-10	1015	SO	3							X	X	X	X	X			-17	
1005130-08	BBG-SB47-11-15-10B	5-12-10	0940	SO	3							X	X	X		X	X		-18	
-09	BBG-SB47-0-1-10B	5-12-10	0910	SO	3							X	X	X		X	X		-19	
-10	BBG-SB11-0-1-10B	5-11-10	1605	SO	3							X	X	X		X	X		-20	
-11	BBG-SB11-11-12-10B	5-11-10	1620	SO	3							X	X	X		X	X		1005209-01	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 5/12/10 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Gran size to CTLABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 4.1 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24770

58

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

2 oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information	Requested Analysis (and Method Number)
Company Name: CH2M HILL	Project Name: CTO-94	
Address: 5700 Cleveland St, Ste 101	Sampling Location: MCB Camp Lejeune	
City: VA Beach State: VA Zip: 23462	Turnaround time	
Project Contact: Rebekka Shaw	Batch QC or Project Specific? If Specific, which Sample ID?	
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or N	
Sampler's Name: K. Rogers / RDM	Are high concentrations expected? Y or N? If yes, which ID(s)?	

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

CompuChem Sample ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (Sphere (1-250ml) 2-AG)	TCL Pest. (8081A) (2-AG)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B)	Chromium VI (7196A) (1-125ml)	Grain Size (1-8oz.)		Grain size	TAL Metals
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X				<2
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X		1005209-02	
-13	BBG-SB48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X			-03
1005129-12	BBG-SB52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X			-04
-13	BBG-SB57-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X			-05

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or N/A
625 & Phenol samples checked for chlorine? Y or N/A
608 samples checked for pH between 5.0-9.0? Y or N/A

Comments:

Sample Custody

Relinquished by:	Date/Time: 5-12-10 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grain size to GT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24771

59

CompuChem
a division of Liberty Analytical Corp.

5/14/10 AB — Residual Chlorine Present? Yes ___ No ___

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of ___

Courier
Airbill No.
Sampling Complete? Y or N

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Client/Reporting Information	Project Information
Company Name: CH2M Hill	Project Name: CTO-94
Address: 5700 Cleveland St, Ste101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time
Project Contact: Rebekha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: Kristin Rogers / RDU	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Comp/Chem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Chrom VI (7196A)	Total Chrom (6010B)	Total Metals (6010B)	Grain Size (ASTM D422)	SIM PAH's (8270C)	TCL Pest. (8081A)		Grain size	
1005130-14	BBG-SB18-0-1-10B	5-12-10	1505	SO	3							X	X		X	X	X		1005209-06	
-15	BBG-SB18-12-13-10B	5-12-10	1520	SO	3							X	X		X	X	X		-07	
1005129-14	BBG-SB60-0-1-10B	5-12-10	1555	SO	3							X		X	X	X	X		-08	
-15	BBG-SB59-0-1-10B	5-12-10	1640	SO	3							X		X	X	X	X		-09	
-16	BBG-SB59-9-10-10B	5-12-10	1655	SO	3							X		X	X	X	X		-10	
1005130-16	BBG-SB25-0-1-10B	5-13-10	1105	SO	3							X	X		X	X	X		-11	
-17	BBG-SB25-3-4-10B	5-13-10	1110	SO	3							X	X		X	X	X		-12	

Lab Use Only	Comments
Sample Unpacked By: Diane Byrd	
Sample Order Entry By:	
Samples Received in Good Condition? Y or N	
If no, explain:	
Cyanide samples checked for sulfide & chlorine? Y or NA	
625 & Phenol samples checked for chlorine? Y or NA	
608 samples checked for pH between 5.0-9.0? Y or NA	

Sample Custody			
Relinquished by:	Date/Time: 5-13-10 / 1330	Received by: Diane Byrd	Date/Time: 5/14/10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 1.4 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SJ0015

24776

60

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDH

Project Information

Project Name: GD-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Requested Analysis and Container/Preservative Information

Matrices
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Sample ID (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2 oz	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 8 oz	TCL Pest (8081A)	Grain Size (ASTM D422) 8 oz	Grain Size	
1005132-03	BBG-SB77-0-1-10B	5-13-10	1205	SO	3							X		X	X	X	X	1005209-19	
-04	BBG-SB77-2.5-3.5-10B	5-13-10	1210	SO	3							X		X	X	X	X	container has BBG-SB77-3.5-4.5	
1005130-18	BBG-SB08-0-1-10B	5-13-10	1240	SO	3								X	X	X	X	X	1005210-02	
-19	BBG-SB08-6-7-10B	5-13-10	1300	SO	3								X	X	X	X	X		-03
1005132-05	BBG-SB79-0-1-10B	5-13-10	1510	SO	3							X	[illegible]	X	X	X	X		-04
-06	BBG-SB79-11-12-10B	5-13-10	1530	SO	3							X	[illegible]	X	X	X	X		-05

Lab Use Only

Sample Unpacked By: Jennifer Bowen
Sample Order Entry By: [illegible]
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Sample Custody

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diane Byrd	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice (Y) or N
Cooler Temp: 3.8 °C

JD 5/14/10 client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24775

61

CHAIN OF CUSTODY

Page ____ of ____

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (Include detection and/or cleanup)

Matrix

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Customer Sample No. / Lab No.	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 20	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 8	TCL Pest (8081A) 8	Grain Size (ASTM D422) 8		Grain Size					
100532-07	BBG-SS83-0-1-10B	5-13-10	1555	SO	3							X		X	X	X	X		100521	0-06				
-08	BBG-SB83-6.5-7.5-10B	5-13-10	1605	SO	3							X		X	X	X	X			-07				
-09	BBG-SS62-0-1-10B	5-13-10	1640	SO	3							X		X	X	X	X			-08				
100530-20	BBG-SS05-0-1-10B	5-14-10	0800	SO	3							~~X~~	X	X	X	X	X			-09				
100534-05	BBG-SB05-7-8-10B	5-14-10	0810	SO	3								X	X	X	X	X			-10				

Lab Use Only

Sample Unpacked By: Jennifer Davis
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diana Byrd	Date/Time: 5-14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? Y or N If yes, where? Grain size to CTLBS	Custody Seal(s) intact? Y or (N)	On Ice? (Y) or N	Cooler Temp: 3.6 °C

client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-01	SS23-00-01	05/10/2010	05/13/2010	05/27/2010	BBG-SS23-00-01-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-01	SS23-00-01	05/10/2010	05/13/2010	06/03/2010	BBG-SS23-00-01-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-02	SB23-1.5-2	05/10/2010	05/13/2010	05/27/2010	BBG-SB23-1.5-2-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-02	SB23-1.5-2	05/10/2010	05/13/2010	06/03/2010	BBG-SB23-1.5-2-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-03	SS24-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS24-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-03	SS24-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS24-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-04	SB24-3-4	05/11/2010	05/13/2010	05/27/2010	BBG-SB24-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-04	SB24-3-4	05/11/2010	05/13/2010	06/03/2010	BBG-SB24-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-05	SS49-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS49-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-05	SS49-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS49-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-06	SB49-11-12	05/11/2010	05/13/2010	05/27/2010	BBG-SB49-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-06	SB49-11-12	05/11/2010	05/13/2010	06/03/2010	BBG-SB49-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-07	SS50-0-1	05/11/2010	05/13/2010	05/27/2010	BBG-SS50-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-07	SS50-0-1	05/11/2010	05/13/2010	06/03/2010	BBG-SS50-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-08	SB47-14-15	05/12/2010	05/13/2010	05/27/2010	BBG-SB47-14-15-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-08	SB47-14-15	05/12/2010	05/13/2010	06/03/2010	BBG-SB47-14-15-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-09	SS47-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS47-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-09	SS47-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS47-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-10	SS11-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS11-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-10	SS11-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS11-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-11	SB11-11-12	05/12/2010	05/13/2010	05/27/2010	BBG-SB11-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-11	SB11-11-12	05/12/2010	05/13/2010	06/03/2010	BBG-SB11-11-12-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-12	SB48-7-8	05/12/2010	05/13/2010	05/27/2010	BBG-SB48-7-8-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-12	SB48-7-8	05/12/2010	05/13/2010	06/03/2010	BBG-SB48-7-8-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-13	SS48-0-1	05/12/2010	05/13/2010	05/27/2010	BBG-SS48-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-13	SS48-0-1	05/12/2010	05/13/2010	06/03/2010	BBG-SS48-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-14	SS18-0-1	05/12/2010	05/14/2010	05/27/2010	BBG-SS18-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-14	SS18-0-1	05/12/2010	05/14/2010	06/03/2010	BBG-SS18-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-15	SB18-12-13	05/12/2010	05/14/2010	05/27/2010	BBG-SB18-12-13-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-15	SB18-12-13	05/12/2010	05/14/2010	06/03/2010	BBG-SB18-12-13-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-16	SS25-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS25-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-16	SS25-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS25-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-17	SB25-3-4	05/12/2010	05/14/2010	05/27/2010	BBG-SB25-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-17	SB25-3-4	05/12/2010	05/14/2010	06/03/2010	BBG-SB25-3-4-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-18	SS08-0-1	05/13/2010	05/14/2010	05/27/2010	BBG-SS08-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-18	SS08-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS08-0-1-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-19	SB08-6-7	05/13/2010	05/14/2010	05/27/2010	BBG-SB08-6-7-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-19	SB08-6-7	05/13/2010	05/14/2010	06/03/2010	BBG-SB08-6-7-10B
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-20	SS05-0-1	05/14/2010	05/14/2010	05/27/2010	BBG-SS05-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005130	CTO-094 MCB CAMP LEJEUNE/39530	1005130-20	SS05-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS05-0-1-10B

WORK ORDER

Printed: 5/28/2010 6:52:04PM

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Received**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/03/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/14/2010 16:00

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 16:33

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005130-07 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A* METALS=TOTAL Cr ONLY*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005130-01 SS23-00-01 [Soil] Sampled 05/10/2010 16:20 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:20	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:20	05/13/2010 09:30	
1005130-02 SB23-1.5-2 [Soil] Sampled 05/10/2010 16:30 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/06/2010 16:30	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/24/2010 16:30	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/06/2010 16:30	05/13/2010 09:30	
1005130-03 SS24-0-1 [Soil] Sampled 05/11/2010 10:45 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:45	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:45	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:45	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.DI
SDG:	1005130 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005130-04 SB24-3-4 [Soil] Sampled 05/11/2010 10:55 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 10:55	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 10:55	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 10:55	05/13/2010 09:30	
1005130-05 SS49-0-1 [Soil] Sampled 05/11/2010 14:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:05	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:05	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:05	05/13/2010 09:30	
1005130-06 SB49-11-12 [Soil] Sampled 05/11/2010 14:22 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:22	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:22	05/13/2010 09:30	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:22	05/13/2010 09:30	
1005130-07 SS50-0-1 [Soil] Sampled 05/11/2010 14:45 Eastern					**USE FOR QC**
Solids, Dry Weight	05/27/2010 16:00	13	11/07/2010 14:45	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/07/2010 14:45	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/25/2010 14:45	05/13/2010 09:30	SubList = SVsim- PAH
1005130-08 SB47-14-15 [Soil] Sampled 05/12/2010 09:40 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:40	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:40	05/13/2010 09:30	SubList = SVsim- PAH
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:40	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005130 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005130-09 SS47-0-1 [Soil] Sampled 05/12/2010 09:10 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 09:10	05/13/2010 09:30	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = GC- 8081 DOD
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 09:10	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 09:10	05/13/2010 09:30	SubList = SVsim- PAH
1005130-10 SS11-0-1 [Soil] Sampled 05/12/2010 16:05 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:05	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:05	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:05	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-11 SB11-11-12 [Soil] Sampled 05/12/2010 16:20 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 16:20	05/13/2010 09:30	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 16:20	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 16:20	05/13/2010 09:30	SubList = GC- 8081 DOD
1005130-12 SB48-7-8 [Soil] Sampled 05/12/2010 11:30 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:30	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:30	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:30	05/13/2010 09:30	
1005130-13 SS48-0-1 [Soil] Sampled 05/12/2010 11:00 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:00	05/13/2010 09:30	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:00	05/13/2010 09:30	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:00	05/13/2010 09:30	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005130** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005130-14 SS18-0-1 [Soil] Sampled 05/12/2010 15:05 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:05	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:05	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:05	05/14/2010 09:20	SubList = SVsim- PAH
1005130-15 SB18-12-13 [Soil] Sampled 05/12/2010 15:20 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 15:20	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 15:20	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 15:20	05/14/2010 09:20	SubList = SVsim- PAH
1005130-16 SS25-0-1 [Soil] Sampled 05/13/2010 11:05 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 11:05	05/14/2010 09:20	SubList = SVsim- PAH
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 11:05	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 11:05	05/14/2010 09:20	
1005130-17 SB25-3-4 [Soil] Sampled 05/12/2010 11:10 Eastern					
Solids, Dry Weight	05/27/2010 16:00	13	11/08/2010 11:10	05/14/2010 09:20	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/08/2010 11:10	05/14/2010 09:20	
GC-8081A/PEST	06/03/2010 16:00	20	05/26/2010 11:10	05/14/2010 09:20	SubList = GC- 8081 DOD
1005130-18 SS08-0-1 [Soil] Sampled 05/13/2010 12:40 Eastern					
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 12:40	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 12:40	05/14/2010 16:00	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 12:40	05/14/2010 16:00	

1005130

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DI**
SDG:	**1005130** **CASE:**	**Status:**	**Received**

Analysis	Due	TAT	Expires	Comments	
1005130-19 SB08-6-7 [Soil] Sampled 05/13/2010 13:00 Eastern					
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/09/2010 13:00	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/03/2010 16:00	20	05/27/2010 13:00	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	05/27/2010 16:00	13	11/09/2010 13:00	05/14/2010 16:00	
1005130-20 SS05-0-1 [Soil] Sampled 05/14/2010 08:00 Eastern					
GC-8081A/PEST	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
Solids, Dry Weight	05/27/2010 16:00	13	11/10/2010 08:00	05/14/2010 16:00	
6010B VARIABLE METALS Invoice	06/03/2010 16:00	20	11/10/2010 08:00	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/03/2010 16:00	20	05/28/2010 08:00	05/14/2010 16:00	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

CompuChem

A Division Of

Liberty Analytical Corp.

6/15/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S. WorkOrder: 1005131

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005131

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005131

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005131-01	EB051210-SS	Water	05/12/2010 10:30	05/13/2010 09:30
1005131-02	EB051310-SB	Water	05/13/2010 12:00	05/14/2010 09:20
1005131-03	BBG-FB051310	Water	05/13/2010 12:20	05/14/2010 09:20
1005131-04	BBG-FB051810	Water	05/18/2010 12:00	05/19/2010 09:05
1005131-05	EB051810-SS	Water	05/18/2010 12:05	05/19/2010 09:05

I. SAMPLE DATA PACKAGE

SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field and analytical samples, reanalyses, blanks, spikes, duplicates, and laboratory control samples. The sample data package consists of the following:

A. Cover Page

B. Sample Data

C. Chain-of-Custody (CoC) Documentation

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005131

A. Cover Page -

Inorganic Analyses Data Package

The Cover Page includes laboratory information, the Case and SDG numbers, the client ID numbers in alphanumeric order showing the client ID numbers cross-referenced with Lab ID numbers, comments, and completion of the statement on the use of ICP background and interelement correction for the samples.

On separate pages, the laboratory will include any problems encountered; both technical and administrative, the corrective action taken, and the resolution. This information is included in the Inorganic Case Summary Narrative which follows the Cover Page.

SW846 - METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
BBG-FB051310	1005131-03
BBG-FB051810	1005131-04
EB051210-SS	1005131-01
EB051310-SB	1005131-02
EB051810-SS	1005131-05

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Susan W Bass Name: Susan W Bass

Date: 6-9-10 Title: Senior Chemist

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE
SDG # 1005131

The indicated Sample Delivery Group (SDG) consisting of five (5) liquid samples was received into the laboratory information management system (LIMS) on May 13, 14, and 19, 2010 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 0.7 to 2.3°C. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were digested and analyzed in accordance with SW846 6010 methodology for the requested TAL metals and mercury.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV) and blanks (ICB & CCB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verification (PBW, LCSW, & LCSWD) was found to be within acceptable ranges and the field samples were analyzed within the specified holding times.

MATRIX RELATED QUALITY CONTROL:

No matrix spikes were requested for this SDG.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

Susan W. Bass
Senior Chemist
June 8, 2010

CompuChem
A Division Of
Liberty Analytical Corp.

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Method Detection Limit (MDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).

N: This flag indicates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

The extensions: D, S, SD, L. A, added to the end of the client ID represent as follows:

D: matrix duplicate
S: matrix spike
SD: matrix spike duplicate
L: serial dilution
A: post digestion spike

Method Codes:

P: ICP PLASMA
CV: MERCURY COLD VAPOR AA
CA: MIDI-DISTILLATION SPECTROPHOTOMETRIC
MS: MASS SPECTROMETRY
AS: SEMI-AUTOMATED SPECTROPHOTOMETRIC

B. Sample Data

1. Results
2. Quality Control Data
3. Quarterly Verification of Instrument Performance
4. Raw Data
5. Digestion and Distillation Logs

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005131

1. Results

Sample results shall be arranged in packets with the Inorganic Analysis Data Sheet (Form I - IN). These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers, and shall include all the samples in the SDG.

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

BBG-FB051310

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-03

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	10.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	374	B		P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-FB051810

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-04

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	10.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	372	B		P
7440-47-3	Chromium	1.0	B		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB051210-SS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-01

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	3.5	B		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	428	B		P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	14.0	B		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.37	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.7			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB051310-SB

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-02

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	2.5	B		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	407	B		P
7440-47-3	Chromium	0.91	B		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.24	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB051810-SS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-05

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	10.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	371	B		P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	2.8	B		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

2. Quality Control Data

a. Initial and Continuing Calibration Verification
[Form II (Part 1) - IN]

b. CRDL Standard for AA (if applicable) and ICP
[Form II (Part 2) - IN]

c. Blanks
[Form III - IN]

d. ICP Interference Check Sample
[Form IV - IN]

e. Spike Sample Recovery
[Form V (Part 1) - IN]

f. Post Digest Spike Sample Recovery
[Form V (Part 2) - IN]

g. Duplicates
[Form VI - IN]

h. Laboratory Control Sample
[Form VII - IN]

i. Standard Addition Results (if applicable)
[Form VIII - IN]

j. ICP Serial Dilutions
[Form IX - IN]

k. Preparation Log
[Form XIII - IN]

l. Analysis Run Log
[Form XIV - IN]

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum	2521.0	2405.26	95	50000.0	47110.82	94	47386.36	95	P
Antimony	994.0	1008.02	101	1000.0	1011.93	101	1014.19	101	P
Arsenic	999.0	1010.14	101	1000.0	1012.26	101	1031.89	103	P
Barium	497.0	486.86	98	1000.0	939.70	94	921.73	92	P
Beryllium	495.0	521.73	105	1000.0	1044.40	104	1049.18	105	P
Cadmium	496.0	499.94	101	1000.0	981.70	98	984.26	98	P
Calcium	10026.0	9781.32	98	50000.0	48807.18	98	49023.62	98	P
Chromium	490.0	494.70	101	1000.0	991.21	99	981.29	98	P
Cobalt	499.0	526.86	106	1000.0	1024.03	102	1033.19	103	P
Copper	492.0	518.99	105	1000.0	1010.93	101	996.92	100	P
Iron	5082.0	5108.83	101	25000.0	25161.43	101	25419.14	102	P
Lead	1002.0	999.77	100	1000.0	984.42	98	986.90	99	P
Magnesium	6074.0	5959.21	98	50000.0	50014.70	100	50576.18	101	P
Manganese	499.0	512.37	103	1000.0	1019.75	102	1020.56	102	P
Mercury	4.0	3.87	97	5.0	4.92	98	5.11	102	CV
Nickel	503.0	503.12	100	1000.0	990.32	99	988.73	99	P
Potassium	10021.0	10843.23	108	50000.0	51568.54	103	52529.32	105	P
Selenium	1029.0	997.75	97	1000.0	994.02	99	1013.06	101	P
Silver	501.0	515.86	103	100.0	101.89	102	99.96	100	P
Sodium	10097.0	9659.41	96	50000.0	49859.02	100	50250.75	101	P
Thallium	1028.0	1036.53	101	1000.0	997.89	100	1016.15	102	P
Vanadium	501.0	506.06	101	1000.0	1012.37	101	1004.67	100	P
Zinc	1025.0	976.59	95	1100.0	1067.91	97	1080.88	98	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Aluminum				50000.0	47307.47	95	46502.32	93	P
Antimony				1000.0	1020.56	102	1004.88	100	P
Arsenic				1000.0	1041.17	104	1027.59	103	P
Barium				1000.0	936.50	94	912.98	91	P
Beryllium				1000.0	1038.58	104	1035.32	104	P
Cadmium				1000.0	975.50	98	968.85	97	P
Calcium				50000.0	48010.47	96	48057.94	96	P
Chromium				1000.0	964.92	96	967.70	97	P
Cobalt				1000.0	1022.94	102	1010.04	101	P
Copper				1000.0	1003.09	100	1006.76	101	P
Iron				25000.0	25144.12	101	24998.35	100	P
Lead				1000.0	980.96	98	973.72	97	P
Magnesium				50000.0	50277.36	101	49833.84	100	P
Manganese				1000.0	1010.37	101	1002.05	100	P
Mercury				5.0	5.08	102	5.06	101	CV
Nickel				1000.0	984.45	98	976.74	98	P
Potassium				50000.0	53417.13	107	51373.79	103	P
Selenium				1000.0	1022.94	102	1004.02	100	P
Silver				100.0	99.40	99	100.43	100	P
Sodium				50000.0	50409.26	101	49195.91	98	P
Thallium				1000.0	1022.13	102	1008.06	101	P
Vanadium				1000.0	984.33	98	987.80	99	P
Zinc				1100.0	1058.77	96	1057.99	96	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	46331.57	93	46335.64	93	P
Antimony				1000.0	1018.83	102	1018.00	102	P
Arsenic				1000.0	1046.35	105	1044.14	104	P
Barium				1000.0	902.76	90	910.46	91	P
Beryllium				1000.0	1064.49	106	1062.77	106	P
Cadmium				1000.0	1005.88	101	996.29	100	P
Calcium				50000.0	49929.80	100	49613.46	99	P
Chromium				1000.0	1004.69	100	996.71	100	P
Cobalt				1000.0	1045.50	105	1033.49	103	P
Copper				1000.0	1016.91	102	1017.37	102	P
Iron				25000.0	25879.49	104	25546.23	102	P
Lead				1000.0	998.92	100	995.11	100	P
Magnesium				50000.0	51119.91	102	50496.33	101	P
Manganese				1000.0	1037.70	104	1030.86	103	P
Mercury				5.0	5.25	105	5.36	107	CV
Nickel				1000.0	1007.32	101	997.87	100	P
Potassium				50000.0	50322.94	101	50059.07	100	P
Selenium				1000.0	1016.58	102	1019.91	102	P
Silver				100.0	103.36	103	102.89	103	P
Sodium				50000.0	48808.27	98	48423.72	97	P
Thallium				1000.0	1023.82	102	1018.02	102	P
Vanadium				1000.0	1009.49	101	1001.25	100	P
Zinc				1100.0	1127.72	103	1103.73	100	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	46283.33	93	46177.91	92	P
Antimony				1000.0	1021.58	102	1033.13	103	P
Arsenic				1000.0	1065.25	107	1076.81	108	P
Barium				1000.0	912.67	91	915.02	92	P
Beryllium				1000.0	1070.00	107	1099.62	110	P
Cadmium				1000.0	1015.54	102	1037.00	104	P
Calcium				50000.0	49913.80	100	51491.61	103	P
Chromium				1000.0	1001.35	100	1018.12	102	P
Cobalt				1000.0	1055.14	106	1063.73	106	P
Copper				1000.0	1009.73	101	1011.80	101	P
Iron				25000.0	26026.81	104	26372.54	105	P
Lead				1000.0	1007.59	101	1016.65	102	P
Magnesium				50000.0	51173.80	102	51621.98	103	P
Manganese				1000.0	1044.15	104	1049.41	105	P
Mercury				5.0	5.34	107	5.09	102	CV
Nickel				1000.0	1015.27	102	1031.84	103	P
Potassium				50000.0	50614.38	101	49163.09	98	P
Selenium				1000.0	1040.36	104	1045.24	105	P
Silver				100.0	101.65	102	104.03	104	P
Sodium				50000.0	48361.66	97	47360.21	95	P
Thallium				1000.0	1039.68	104	1040.60	104	P
Vanadium				1000.0	1005.78	101	1026.44	103	P
Zinc				1100.0	1136.72	103	1170.32	106	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2521.0	2423.09	96	50000.0	46712.52	93	45563.34	91	P
Antimony	994.0	1022.01	103	1000.0	1015.66	102	996.39	100	P
Arsenic	999.0	1009.51	101	1000.0	995.34	100	975.44	98	P
Barium	497.0	507.08	102	1000.0	982.54	98	950.70	95	P
Beryllium	495.0	507.35	102	1000.0	998.25	100	985.49	99	P
Cadmium	496.0	505.27	102	1000.0	971.97	97	961.30	96	P
Calcium	10026.0	9898.22	99	50000.0	48269.15	97	47937.73	96	P
Chromium	490.0	503.01	103	1000.0	975.54	98	952.10	95	P
Cobalt	499.0	513.28	103	1000.0	971.69	97	954.27	95	P
Copper	492.0	513.36	104	1000.0	1007.26	101	1012.85	101	P
Iron	5082.0	5006.99	99	25000.0	23912.79	96	23478.72	94	P
Lead	1002.0	1016.32	101	1000.0	980.96	98	961.85	96	P
Magnesium	6074.0	6014.50	99	50000.0	49380.52	99	48364.19	97	P
Manganese	499.0	510.28	102	1000.0	987.51	99	961.03	96	P
Nickel	503.0	509.52	101	1000.0	979.37	98	964.90	96	P
Potassium	10021.0	10602.99	106	50000.0	50432.35	101	48414.84	97	P
Selenium	1029.0	1014.74	99	1000.0	994.01	99	970.97	97	P
Silver	501.0	509.55	102	100.0	100.64	101	102.67	103	P
Sodium	10097.0	9738.13	96	50000.0	49705.32	99	48433.86	97	P
Thallium	1028.0	1038.85	101	1000.0	990.06	99	967.26	97	P
Vanadium	501.0	506.32	101	1000.0	979.25	98	967.27	97	P
Zinc	1025.0	983.59	96	1100.0	1035.56	94	1032.16	94	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

AA CRDL Standard Source: HP0916320

ICP CRDL Standard Source: HP1004012

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum				200.0	172.39	86.2		
Antimony				10.0	9.50	95.0		
Arsenic				10.0	9.66	96.6		
Barium				200.0	185.42	92.7		
Beryllium				5.0	4.90	98.0		
Cadmium				5.0	4.52	90.4		
Calcium				5000.0	5029.02	100.6		
Chromium				10.0	10.15	101.5		
Cobalt				5.0	3.22	64.4		
Copper				5.0	4.42	88.4		
Iron				100.0	63.78	63.8		
Lead				3.0	3.38	112.7		
Magnesium				5000.0	4919.29	98.4		
Manganese				10.0	10.34	103.4		
Mercury	0.2	0.20	100.0					
Nickel				5.0	6.18	123.6		
Potassium				5000.0	4610.53	92.2		
Selenium				5.0	5.72	114.4		
Silver				5.0	3.10	62.0		
Sodium				5000.0	4588.88	91.8		
Thallium				10.0	11.81	118.1		
Vanadium				20.0	19.64	98.2		
Zinc				20.0	20.21	101.0		

Control Limits: no limits have been established by EPA at this time

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

AA CRDL Standard Source: HP0916320

ICP CRDL Standard Source: HP1004012

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum				200.0	175.66	87.8		
Antimony				10.0	7.78	77.8		
Arsenic				10.0	8.28	82.8		
Barium				200.0	193.25	96.6		
Beryllium				5.0	4.87	97.4		
Cadmium				5.0	5.04	100.8		
Calcium				5000.0	5055.96	101.1		
Chromium				10.0	10.15	101.5		
Cobalt				5.0	4.60	92.0		
Copper				5.0	4.91	98.2		
Iron				100.0	60.36	60.4		
Lead				3.0	3.05	101.7		
Magnesium				5000.0	4881.14	97.6		
Manganese				10.0	10.00	100.0		
Nickel				5.0	5.50	110.0		
Potassium				5000.0	4353.03	87.1		
Selenium				5.0	5.59	111.8		
Silver				5.0	3.15	63.0		
Sodium				5000.0	4551.16	91.0		
Thallium				10.0	7.14	71.4		
Vanadium				20.0	18.86	94.3		
Zinc				20.0	20.38	101.9		

Control Limits: no limits have been established by EPA at this time

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	200.0	U	200.0	U	200.0	U	200.0	U	200.000	U	P
Antimony	10.0	U	10.0	U	2.8	B	10.0	U	10.000	U	P
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	-2.520	B	P
Barium	200.0	U	200.0	U	200.0	U	200.0	U	200.000	U	P
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	-0.952	B	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	-0.671	B	P
Calcium	371.7	B	370.6	B	387.0	B	390.7	B	387.635	B	P
Chromium	10.0	U	10.0	U	1.3	B	10.0	U	10.000	U	P
Cobalt	5.0	U	-2.3	B	5.0	U	-2.5	B	-3.305	B	P
Copper	5.0	U	5.0	U	5.0	U	-1.0	B	-1.962	B	P
Iron	100.0	U	100.0	U	19.6	B	100.0	U	100.000	U	P
Lead	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Magnesium	5000.0	U	5000.0	U	16.8	B	19.6	B	5000.000	U	P
Manganese	10.0	U	10.0	U	0.3	B	0.3	B	10.000	U	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U	CV
Nickel	5.0	U	5.0	U	5.0	U	5.0	U	-0.654	B	P
Potassium	-1440.4	B	-1441.3	B	-1440.1	B	-1429.9	B	-1438.860	B	P
Selenium	5.0	U	5.0	U	5.0	U	2.4	B	5.000	U	P
Silver	5.0	U	5.0	U	5.0	U	5.0	U	5.000	U	P
Sodium	5000.0	U	5000.0	U	5000.0	U	5000.0	U	5000.000	U	P
Thallium	4.3	B	3.6	B	10.0	U	6.1	B	10.000	U	P
Vanadium	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P
Zinc	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	200.0	U	-31.8	B			P
Antimony			10.0	U	10.0	U	10.0	U			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			200.0	U	200.0	U	200.0	U			P
Beryllium			5.0	U	5.0	U	-0.8	B			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			381.1	B	381.3	B	373.6	B			P
Chromium			10.0	U	10.0	U	10.0	U			P
Cobalt			-3.0	B	-2.9	B	-2.9	B			P
Copper			-1.3	B	-1.3	B	-1.5	B			P
Iron			100.0	U	100.0	U	100.0	U			P
Lead			3.0	U	3.0	U	3.0	U			P
Magnesium			10.3	B	10.8	B	5000.0	U			P
Manganese			0.2	B	0.2	B	10.0	U			P
Mercury			0.200	U	0.200	U	0.200	U			CV
Nickel			5.0	U	5.0	U	5.0	U			P
Potassium			-1430.7	B	-1427.7	B	-1443.1	B			P
Selenium			5.0	U	2.2	B	5.0	U			P
Silver			5.0	U	5.0	U	5.0	U			P
Sodium			5000.0	U	5000.0	U	5000.0	U			P
Thallium			10.0	U	4.1	B	10.0	U			P
Vanadium			20.0	U	20.0	U	20.0	U			P
Zinc			20.0	U	20.0	U	20.0	U			P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			-35.8	B	-50.6	B					P
Antimony			10.0	U	10.0	U					P
Arsenic			10.0	U	10.0	U					P
Barium			200.0	U	200.0	U					P
Beryllium			-0.9	B	-1.3	B					P
Cadmium			5.0	U	5.0	U					P
Calcium			377.8	B	381.8	B					P
Chromium			10.0	U	10.0	U					P
Cobalt			-2.7	B	-2.0	B					P
Copper			-2.0	B	-1.9	B					P
Iron			100.0	U	100.0	U					P
Lead			3.0	U	3.0	U					P
Magnesium			5000.0	U	9.6	B					P
Manganese			0.3	B	0.3	B					P
Mercury			0.200	U	0.200	U					CV
Nickel			5.0	U	5.0	U					P
Potassium			-1431.3	B	-1429.5	B					P
Selenium			5.0	U	2.5	B					P
Silver			5.0	U	5.0	U					P
Sodium			5000.0	U	5000.0	U					P
Thallium			10.0	U	4.2	B					P
Vanadium			20.0	U	20.0	U					P
Zinc			20.0	U	20.0	U					P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	200.0	U	200.0	U	33.7	B					P
Antimony	10.0	U	10.0	U	10.0	U					P
Arsenic	10.0	U	10.0	U	10.0	U					P
Barium	200.0	U	200.0	U	200.0	U					P
Beryllium	5.0	U	5.0	U	5.0	U					P
Cadmium	5.0	U	5.0	U	5.0	U					P
Calcium	373.3	B	384.7	B	395.2	B					P
Chromium	10.0	U	10.0	U	10.0	U					P
Cobalt	5.0	U	-1.6	B	5.0	U					P
Copper	5.0	U	5.0	U	5.0	U					P
Iron	100.0	U	100.0	U	100.0	U					P
Lead	3.0	U	3.0	U	3.0	U					P
Magnesium	5000.0	U	14.4	B	26.5	B					P
Manganese	10.0	U	0.2	B	0.2	B					P
Nickel	5.0	U	5.0	U	5.0	U					P
Potassium	-1444.6	B	-1441.7	B	-1427.8	B					P
Selenium	5.0	U	5.0	U	5.0	U					P
Silver	5.0	U	5.0	U	5.0	U					P
Sodium	5000.0	U	5000.0	U	5000.0	U					P
Thallium	10.0	U	10.0	U	10.0	U					P
Vanadium	20.0	U	20.0	U	20.0	U					P
Zinc	20.0	U	20.0	U	20.0	U					P

SW846 - METALS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	244100	241100	249000	247000	102.4			
Antimony	0	589	1.8	616	104.6			
Arsenic	0	101	-1.9	104	103.0			
Barium	0	495	2.5	489	98.8			
Beryllium	0	475	0.94	512	107.8			
Cadmium	0	940	3.2	959	102.0			
Calcium	234900	231100	246000	252000	109.0			
Chromium	43	511	43.3	525	102.7			
Cobalt	0	461	-2.2	502	108.9			
Copper	23	548	23.3	546	99.6			
Iron	95600	94800	97900	99600	105.1			
Lead	10	61	7.7	56.2	92.1			
Magnesium	247500	251100	265000	265000	105.5			
Manganese	19	502	19.3	525	104.6			
Nickel	21	984	21.9	999	101.5			
Potassium	0	0	-1440	-1420				
Selenium	0	53	-2.6	50.1	94.5			
Silver	0	206	0.010	207	100.5			
Sodium	0	0	910	885				
Thallium	0	103	8.4	104	101.0			
Vanadium	0	494	-0.81	500	101.2			
Zinc	28	1028	30.9	952	92.6			

SW846 - METALS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	244100	241100	241000	251000	104.1			
Antimony	0	589	-0.54	636	108.0			
Arsenic	0	101	-0.73	105	104.0			
Barium	0	495	2.6	528	106.7			
Beryllium	0	475	0.71	495	104.2			
Cadmium	0	940	3.1	960	102.1			
Calcium	234900	231100	250000	251000	108.6			
Chromium	43	511	43.0	522	102.2			
Cobalt	0	461	-1.1	485	105.2			
Copper	23	548	24.0	543	99.1			
Iron	95600	94800	94600	96000	101.3			
Lead	10	61	5.8	57.1	93.6			
Magnesium	247500	251100	262000	267000	106.3			
Manganese	19	502	18.8	514	102.4			
Nickel	21	984	22.1	1000	101.6			
Potassium	0	0	-1440	-1430				
Selenium	0	53	-2.9	49.8	94.0			
Silver	0	206	-0.24	202	98.1			
Sodium	0	0	914	834				
Thallium	0	103	7.8	108	104.9			
Vanadium	0	494	-1.4	495	100.2			
Zinc	28	1028	31.8	924	89.9			

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005131

Solid LCS Source: _____

Aqueous LCS Source: HP0935232

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	20000.0	17977.64	90						
Antimony	6000.0	5842.33	97						
Arsenic	1000.0	1000.82	100						
Barium	20000.0	17316.50	87						
Beryllium	500.0	530.65	106						
Cadmium	500.0	494.44	99						
Calcium	50000.0	49920.54	100						
Chromium	1000.0	995.49	100						
Cobalt	5000.0	5170.79	103						
Copper	2500.0	2480.19	99						
Iron	10000.0	10099.90	101						
Lead	300.0	291.85	97						
Magnesium	50000.0	48832.75	98						
Manganese	1500.0	1529.86	102						
Mercury	3.0	3.13	104						
Nickel	4000.0	3909.25	98						
Potassium	50000.0	48111.32	96						
Selenium	500.0	470.43	94						
Silver	1000.0	989.95	99						
Sodium	50000.0	46080.92	92						
Thallium	1000.0	982.51	98						
Vanadium	5000.0	5030.14	101						
Zinc	2000.0	2021.52	101						

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005131

Solid LCS Source: _____

Aqueous LCS Source: HP0935232

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	20000.0	18304.34	92						
Antimony	6000.0	5956.52	99						
Arsenic	1000.0	1023.58	102						
Barium	20000.0	17872.47	89						
Beryllium	500.0	535.45	107						
Cadmium	500.0	498.94	100						
Calcium	50000.0	49909.32	100						
Chromium	1000.0	987.87	99						
Cobalt	5000.0	5175.26	104						
Copper	2500.0	2508.23	100						
Iron	10000.0	10141.07	101						
Lead	300.0	296.97	99						
Magnesium	50000.0	49215.02	98						
Manganese	1500.0	1529.29	102						
Mercury	3.0	3.08	103						
Nickel	4000.0	3950.34	99						
Potassium	50000.0	49525.71	99						
Selenium	500.0	480.80	96						
Silver	1000.0	991.16	99						
Sodium	50000.0	47069.34	94						
Thallium	1000.0	998.05	100						
Vanadium	5000.0	5032.07	101						
Zinc	2000.0	2013.63	101						

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Method: P

EPA Sample No.	Preparation Date		Volume (mL)
BBG-FB051310	5/26/2010		50.0
BBG-FB051810	5/26/2010		50.0
EB051210-SS	5/26/2010		50.0
EB051310-SB	5/26/2010		50.0
EB051810-SS	5/26/2010		50.0
LCSW	5/26/2010		50.0
LCSWD	5/26/2010		50.0
PBW	5/26/2010		50.0

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Method: CV

EPA Sample No.	Preparation Date		Volume (mL)
BBG-FB051310	5/26/2010		100.0
BBG-FB051810	5/26/2010		100.0
EB051210-SS	5/26/2010		100.0
EB051310-SB	5/26/2010		100.0
EB051810-SS	5/26/2010		100.0
LCSW	5/26/2010		100.0
LCSWD	5/26/2010		100.0
PBW	5/26/2010		100.0

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID Number: P4 Method: P

Start Date: 6/2/2010 End Date: 6/2/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1115		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S	1.00	1123							X		X		X		X				X		X	X		X		X	
S	1.00	1130		X						X						X				X			X				
S	1.00	1135				X	X	X				X		X			X								X		
S	1.00	1142			X																						
ICV	1.00	1147		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1.00	1154		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1202																									
ICSA	1.00	1209		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1216		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1223		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1230		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LRS	1.00	1240		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1247																									
ZZZZZZ	1.00	1254																									
ZZZZZZ	1.00	1301																									
ZZZZZZ	1.00	1309																									
ZZZZZZ	1.00	1316																									
ZZZZZZ	1.00	1323																									
ZZZZZZ	1.00	1330																									
ZZZZZZ	1.00	1337																									
ZZZZZZ	1.00	1344																									
CCV	1.00	1351		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1359		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1406																									
ZZZZZZ	1.00	1413																									
ZZZZZZ	1.00	1420																									
ZZZZZZ	1.00	1427																									
ZZZZZZ	1.00	1434																									
ZZZZZZ	1.00	1441																									
ZZZZZZ	1.00	1449																									
ZZZZZZ	1.00	1456																									
ZZZZZZ	1.00	1504																									
ZZZZZZ	1.00	1511																									
CCV	1.00	1518		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1525		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1532																									
ZZZZZZ	1.00	1539																									

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID Number: P4 Method: P

Start Date: 6/2/2010 End Date: 6/2/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN	
ZZZZZZ	1.00	1547																										
ZZZZZZ	1.00	1554																										
ZZZZZZ	5.00	1601																										
ZZZZZZ	1.00	1608																										
ZZZZZZ	1.00	1615																										
ZZZZZZ	1.00	1622																										
ZZZZZZ	1.00	1629																										
ZZZZZZ	1.00	1636																										
CCV	1.00	1644		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1651		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1658																										
ZZZZZZ	1.00	1705																										
ZZZZZZ	1.00	1712																										
ZZZZZZ	1.00	1719																										
ZZZZZZ	1.00	1726																										
ZZZZZZ	1.00	1734																										
ZZZZZZ	1.00	1741																										
ZZZZZZ	1.00	1748																										
ZZZZZZ	1.00	1755																										
ZZZZZZ	1.00	1802																										
CCV	1.00	1809		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1816		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1824																										
ZZZZZZ	1.00	1831																										
ZZZZZZ	1.00	1838																										
ZZZZZZ	1.00	1845																										
ZZZZZZ	1.00	1852																										
ZZZZZZ	1.00	1859																										
ZZZZZZ	1.00	1906																										
ZZZZZZ	1.00	1914																										
ZZZZZZ	1.00	1921																										
ZZZZZZ	1.00	1928																										
CCV	1.00	1935		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1942		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1949																										
ZZZZZZ	5.00	1956																										
ZZZZZZ	1.00	2004																										
ZZZZZZ	1.00	2011																										

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID Number: P4 Method: P

Start Date: 6/2/2010 End Date: 6/2/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN				
ZZZZZZ	1.00	2018																												
ZZZZZZ	1.00	2025																												
ZZZZZZ	1.00	2032																												
ZZZZZZ	1.00	2039																												
ZZZZZZ	1.00	2046																												
ZZZZZZ	1.00	2054																												
CCV	1.00	2101		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB	1.00	2108		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
ZZZZZZ	1.00	2115																												
ZZZZZZ	1.00	2122																												
ZZZZZZ	1.00	2129																												
ZZZZZZ	1.00	2136																												
ZZZZZZ	1.00	2144																												
PBW	1.00	2151		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
LCSW	1.00	2158		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
LCSWD	1.00	2205		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
EB051210-SS	1.00	2212		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
EB051310-SB	1.00	2219		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCV	1.00	2226		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				
CCB	1.00	2234		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X				

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID Number: P4 Method: P

Start Date: 6/3/2010 End Date: 6/4/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.00	1043		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.00	1050							X		X		X		X				X		X	X		X		X			
S	1.00	1057		X						X						X				X			X						
S	1.00	1103				X	X	X				X		X			X								X				
S	1.00	1109			X																								
ICV	1.00	1115		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.00	1122		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1129																												
ICSA	1.00	1136		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.00	1143		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.00	1150		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1158		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LRS	1.00	1207		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1215																												
BBG-FB051310	1.00	1222		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
BBG-FB051810	1.00	1229		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
EB051810-SS	1.00	1236		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.00	1243		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1250		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID Number: V4 Method: CV

Start Date: 5/27/2010 End Date: 5/27/2010

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0857																X								
S0.2	1.00	0859																X								
S0.5	1.00	0901																X								
S1	1.00	0903																X								
S5	1.00	0904																X								
S10	1.00	0906																X								
ICV	1.00	0908																X								
ICB	1.00	0910																X								
CRA	1.00	0912																X								
CCV	1.00	0914																X								
CCB	1.00	0916																X								
ZZZZZZ	1.00	0918																								
ZZZZZZ	1.00	0920																								
ZZZZZZ	1.00	0922																								
ZZZZZZ	1.00	0924																								
ZZZZZZ	1.00	0925																								
ZZZZZZ	1.00	0927																								
ZZZZZZ	1.00	0929																								
ZZZZZZ	1.00	0931																								
ZZZZZZ	1.00	0933																								
ZZZZZZ	1.00	0935																								
CCV	1.00	0937																X								
CCB	1.00	0939																X								
ZZZZZZ	1.00	0941																								
ZZZZZZ	1.00	0942																								
ZZZZZZ	1.00	0944																								
ZZZZZZ	1.00	0946																								
ZZZZZZ	1.00	0948																								
ZZZZZZ	1.00	0950																								
ZZZZZZ	1.00	0952																								
ZZZZZZ	1.00	0954																								
ZZZZZZ	1.00	0956																								
CCV	1.00	0958																X								
CCB	1.00	1000																X								
ZZZZZZ	1.00	1001																								
ZZZZZZ	1.00	1003																								
ZZZZZZ	1.00	1005																								
ZZZZZZ	1.00	1007																								

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID Number: V4 Method: CV

Start Date: 5/27/2010 End Date: 5/27/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1009																										
ZZZZZZ	1.00	1011																										
ZZZZZZ	1.00	1013																										
ZZZZZZ	1.00	1015																										
ZZZZZZ	1.00	1017																										
CCV	1.00	1019																X										
CCB	1.00	1021																X										
ZZZZZZ	1.00	1023																										
ZZZZZZ	1.00	1024																										
ZZZZZZ	1.00	1026																										
ZZZZZZ	1.00	1028																										
ZZZZZZ	1.00	1031																										
ZZZZZZ	1.00	1033																										
ZZZZZZ	1.00	1034																										
ZZZZZZ	1.00	1036																										
ZZZZZZ	1.00	1038																										
CCV	1.00	1040																X										
CCB	1.00	1042																X										
ZZZZZZ	1.00	1044																										
ZZZZZZ	1.00	1046																										
ZZZZZZ	1.00	1048																										
ZZZZZZ	1.00	1050																										
ZZZZZZ	1.00	1052																										
ZZZZZZ	1.00	1054																										
ZZZZZZ	1.00	1056																										
CCV	1.00	1058																X										
CCB	1.00	1100																X										
ZZZZZZ	1.00	1102																										
ZZZZZZ	1.00	1104																										
ZZZZZZ	1.00	1106																										
ZZZZZZ	1.00	1108																										
ZZZZZZ	1.00	1110																										
PBW	1.00	1112																X										
ZZZZZZ	1.00	1113																										
CCV	1.00	1115																X										
CCB	1.00	1117																X										
LCSW	1.00	1119																X										
LCSWD	1.00	1121																X										

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID Number: V4 Method: CV

Start Date: 5/27/2010 End Date: 5/27/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
EB051210-SS	1.00	1123																X								
EB051310-SB	1.00	1125																X								
BBG-FB051310	1.00	1127																X								
BBG-FB051810	1.00	1129																X								
EB051810-SS	1.00	1131																X								
CCV	1.00	1133																X								
CCB	1.00	1135																X								

3. Quarterly Verification of Instrument Performance

a. Instrument Detection Limits (Quarterly)
[Form X - IN]

b. ICP Interelement Correction Factors (Annually)
[Form XI (Part 1) - IN]

c. ICP Interelement Correction Factors (Annually)
[Form XI (Part 2) - IN]

d. ICP Linear Ranges (Quarterly)
[Form XII - IN]

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005131

ICP ID Number: _____ Date: 4/10/2010

Flame AA ID Number: V4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL ug/L	MDL ug/L	M
Mercury	253.70		0.20	0.091	CV

Comments: _____

SW846 - METALS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005131

ICP ID Number: P4 Date: 4/15/2010

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL ug/L	MDL ug/L	M
Aluminum	308.22		200	31.0	P
Antimony	206.84		10	2.0	P
Arsenic	189.04		10	2.5	P
Barium	493.41		200	15.2	P
Beryllium	313.04		5	0.73	P
Cadmium	226.50		5.0	0.64	P
Calcium	317.93		5000	122	P
Chromium	267.72		10	0.75	P
Cobalt	228.62		5	1.5	P
Copper	324.70		5	1.0	P
Iron	271.44		100	12.2	P
Lead	220.35		3	1.6	P
Magnesium	279.08		5000	7.8	P
Manganese	257.61		10	0.17	P
Nickel	231.60		5	0.63	P
Potassium	766.49		5000	30.9	P
Selenium	196.03		5	2.1	P
Silver	328.07		5	0.64	P
Sodium	330.23		5000	156	P
Thallium	190.86		10	3.0	P
Vanadium	292.40		20	1.5	P
Zinc	206.20		20	4.2	P

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000430	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000560	0.0000000	0.0000840	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0001550	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000390	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.000904	0.0000000
Lead	220.35	-0.0001560	0.0000000	0.0000000	0.0000000	-0.0004960
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000270	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0004680	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0007960	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0002910	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005131

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	Ba	Be	Cd	Co
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0052730	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0003220	0.0000000	0.0000000	-0.000280	0.0000000
Cobalt	228.62	0.0000000	0.0001680	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0703370
Lead	220.35	0.0000000	0.0000000	-0.0002140	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0005150	0.0000000	0.0000000	0.0000000	-0.0012010
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0001610	0.0000930	-0.0008840
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Mn	Mo	Ni
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0021050	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	-0.0030670	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0001080	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0001310	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0068740	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0028440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0001170	-0.001218	0.0001630
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0004510	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0007390	0.0000000	0.0000000
Vanadium	292.40	-0.0016760	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0011640	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Pb	Sb	Se	Sn	Tl
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.004391	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000500	-0.0001990	-0.0000650	-0.000243	-0.0000490
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	-0.0001490	0.0000000	-0.000187	-0.0011190
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0001400	-0.0004280
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	Zn			
Aluminum	308.21	0.0168710	0.0000000			
Antimony	206.84	-0.0021410	0.0000000			
Arsenic	189.04	0.0000000	0.0000000			
Barium	493.41	0.0000000	0.0000000			
Beryllium	313.04	0.0052620	0.0000000			
Cadmium	226.50	0.0000000	-0.0000580			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.72	-0.0003410	0.0000000			
Cobalt	228.62	0.0000000	0.0000000			
Copper	324.70	0.0000000	0.0000000			
Iron	271.44	0.0249430	0.0000000			
Lead	220.35	-0.0001610	0.0000000			
Magnesium	279.08	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	0.0000000	0.0000000			
Silver	328.07	0.0000000	0.0000000			
Sodium	330.23	0.0000000	0.0376950			
Thallium	190.86	-0.0004340	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	206.20	0.0000000	0.0000000			

Comments:

SW846 - METALS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005131

ICP ID Number: P4 Date: 4/15/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	400000.0	P
Antimony	15.00	40000.0	P
Arsenic	15.00	20000.0	P
Barium	15.00	50000.0	P
Beryllium	15.00	5000.0	P
Cadmium	15.00	10000.0	P
Calcium	15.00	700000.0	P
Chromium	15.00	60000.0	P
Cobalt	15.00	50000.0	P
Copper	15.00	30000.0	P
Iron	15.00	700000.0	P
Lead	15.00	60000.0	P
Magnesium	15.00	300000.0	P
Manganese	15.00	50000.0	P
Nickel	15.00	60000.0	P
Potassium	15.00	100000.0	P
Selenium	15.00	40000.0	P
Silver	15.00	1000.0	P
Sodium	15.00	700000.0	P
Thallium	15.00	60000.0	P
Vanadium	15.00	50000.0	P
Zinc	15.00	60000.0	P

Comments: _____

4. Raw Data

For each reported value, the laboratory shall include in the data package all raw data used to obtain that value. This applies to all required QA/QC measurements, instrument standardization, as well as all sample analysis results. This does not apply to the Quarterly Verification of Instrument Parameters submitted as a part of each data package.

The order of the raw data in the data package shall be: ICP, Flame AA (if used), Furnace AA (if used), mercury, and cyanide (if a target analyte).

Raw data shall be labeled using EPA sample number convention in order to identify:

- calibration standards, including source and preparation date
- initial and continuing calibration blanks and preparation blanks
- initial and continuing calibration verification standards, interference check samples, ICP serial dilution samples, CRDL standard for ICP and AA (if used), Laboratory Control Sample, and post digestion spike
- diluted and undiluted samples (by client ID number) and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes
- instrument used, including all data voided or data not used and a brief written explanation
- all information for furnace analysis (if used)
- date and time of each analysis (instrument run logs can be submitted if they contain this information
- integration time for AA analyses (if used)

Daily Instrument Profile

Nebulizer pressure: 30
Peak position: +0.03147
Peak intensity: 1099
Vernier position: 493

Maintenance: New torch

Printed: 6/7/2010 10:58:46 AM

Method(s) (circle one): ILM04.1 ILM05.4 (6010B) 200.7 Other _____

Operator(s): JV **Date/Time** 060210/1115 to 060340/0035

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005066	S	TAL P1/4
1005068	S	TAL Complete
1005129	S	TAL
1005131	W	TAL
1005203	W	Mn + Na

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CAL1	S0 BLANK	CALIB STD	1	06/02/10	11:15:54		
CAL2	S RSTD-1	CALIB STD	1	06/02/10	11:23:02		
CAL4	S RSTD-3	CALIB STD	1	06/02/10	11:30:11		
CAL3	S RSTD-2	CALIB STD	1	06/02/10	11:35:47		
CAL5	S RSTD-4	CALIB STD	1	06/02/10	11:42:10		
ICV1	ICV1	ICV	1	06/02/10	11:47:46		
ICB1	ICB	ICB	1	06/02/10	11:54:54		
CRL1	CRI	CRI	1	06/02/10	12:02:03		
IFA1	ICSA	ICS	1	06/02/10	12:09:11		
IFB1	ICSAB	ICS	1	06/02/10	12:16:19		
CCV1	CCV	CCV	1	06/02/10	12:23:28		
CCB1	CCB	CCB	1	06/02/10	12:30:38		
LRS	LRS	LRS	1	06/02/10	12:40:28		
1005066-03	SDZ-SD26	SAMPLE	1	06/02/10	12:47:36	1005066	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: D. Tomato Date: 6-7-10

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005066-04	SDZ-SD27	SAMPLE	1	06/02/10	12:54:45	1005066	
1005066-05	SDZ-SD29	SAMPLE	1	06/02/10	13:01:53	1005066	
1005066-06	SDZ-SD29D	SAMPLE	1	06/02/10	13:09:02	1005066	
1005066-07	SDZ-SD17	SAMPLE	1	06/02/10	13:16:10	1005066	
1005066-09	SDZ-SD23	SAMPLE	1	06/02/10	13:23:18	1005066	
1005066-10	SDZ-SD23D	SAMPLE	1	06/02/10	13:30:26	1005066	
1005066-11	SDZ-SD22	SAMPLE	1	06/02/10	13:37:34	1005066	
1005066-12	SDZ-SD05	SAMPLE	1	06/02/10	13:44:42	1005066	
CCV2	CCV	CCV	1	06/02/10	13:51:51		
CCB2	CCB	CCB	1	06/02/10	13:59:01		
1005066-13	SDZ-SD28	SAMPLE	1	06/02/10	14:06:10	1005066	
1005066-14	SDZ-SD08	SAMPLE	1	06/02/10	14:13:18	1005066	
1005066-15	SDZ-SD07	SAMPLE	1	06/02/10	14:20:26	1005066	
1005066-16	SDZ-SD06	SAMPLE	1	06/02/10	14:27:35	1005066	
1005066-17	SDZ-SD09	SAMPLE	1	06/02/10	14:34:43	1005066	
1005066-18	SDZ-SD09D	SAMPLE	1	06/02/10	14:41:52	1005066	
1005066-19	SDZ-SD03	SAMPLE	1	06/02/10	14:49:00	1005066	Ca↑ 2X
1005066-20	SDZ-SD02	SAMPLE	1	06/02/10	14:56:09	1005066	
0060115-BLK1	PBS	PBS	1	06/02/10	15:04:09	1005129	
0060115-BS1	LCSS	LCS	1	06/02/10	15:11:17	1005129	
CCV3	CCV	CCV	1	06/02/10	15:18:26		
CCB3	CCB	CCB	1	06/02/10	15:25:35		
1005129-05RE1	SS53-0-1	SAMPLE	1	06/02/10	15:32:44	1005129	
0060115-DUP1	SS53-0-1D	SAMPLE	1	06/02/10	15:39:52	1005129	
0060115-MS1	SS53-0-1S	SAMPLE	1	06/02/10	15:47:00	1005129	
0060115-MSD1	SS53-0-1SD	SAMPLE	1	06/02/10	15:54:08	1005129	
SRD1	SS53-0-1L	SAMPLE	1	06/02/10	16:01:16	1005129	
0060115-PS1	SS53-0-1A	SAMPLE	1	06/02/10	16:08:24	1005129	
1005129-01RE1	SS55-00-01	SAMPLE	1	06/02/10	16:15:33	1005129	
1005129-02RE1	SB55-00-2.5-3	SAMPLE	1	06/02/10	16:22:41	1005129	
1005129-03RE1	SS54-0-1	SAMPLE	1	06/02/10	16:29:49	1005129	
1005129-04RE1	SB54-4-5	SAMPLE	1	06/02/10	16:36:58	1005129	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Jones Date: 6/7/10

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CCV4	CCV	CCV	1	06/02/10	16:44:07		
CCB4	CCB	CCB	1	06/02/10	16:51:17		
1005129-06RE1	SB53-7-8	SAMPLE	1	06/02/10	16:58:25	1005129	
1005129-07RE1	SS80-0-1	SAMPLE	1	06/02/10	17:05:34	1005129	
1005129-08RE1	SB80-3-4	SAMPLE	1	06/02/10	17:12:42	1005129	
1005129-09RE1	SS56-0-1	SAMPLE	1	06/02/10	17:19:50	1005129	
1005129-10RE1	SB56-3-4	SAMPLE	1	06/02/10	17:26:58	1005129	
1005129-11RE1	SS58-0-1	SAMPLE	1	06/02/10	17:34:07	1005129	
1005129-12RE1	SS52-0-1	SAMPLE	1	06/02/10	17:41:15	1005129	
1005129-13RE1	SS57-0-1	SAMPLE	1	06/02/10	17:48:23	1005129	
1005129-14RE1	SS60-00-01	SAMPLE	1	06/02/10	17:55:31	1005129	
1005129-15RE1	SS59-00-01	SAMPLE	1	06/02/10	18:02:39	1005129	
CCV5	CCV	CCV	1	06/02/10	18:09:48		
CCB5	CCB	CCB	1	06/02/10	18:16:58		
1005129-16RE1	SB59-9-10	SAMPLE	1	06/02/10	18:24:06	1005129	
1005129-17RE1	SB85-0-1	SAMPLE	1	06/02/10	18:31:14	1005129	
1005129-18RE1	SB89-0-1	SAMPLE	1	06/02/10	18:38:23	1005129	
1005129-19RE1	SB89-6.5-7.5	SAMPLE	1	06/02/10	18:45:31	1005129	
1005129-20RE1	SB78-0-1	SAMPLE	1	06/02/10	18:52:39	1005129	
0051814-BLK1	PBS	PBS	1	06/02/10	18:59:48	1005068	
0051814-BS1	LCSS	LCS	1	06/02/10	19:06:57	1005068	
1005068-11	SDZ-SD15	SAMPLE	1	06/02/10	19:14:05	1005068	
0051814-DUP1	SDZ-SD15D	SAMPLE	1	06/02/10	19:21:14	1005068	
0051814-MS1	SDZ-SD15S	SAMPLE	1	06/02/10	19:28:22	1005068	
CCV6	CCV1	CCV	1	06/02/10	19:35:31		
CCB6	CCB1	CCB	1	06/02/10	19:42:39		
0051814-MSD1	SDZ-SD15SD	SAMPLE	1	06/02/10	19:49:48	1005068	
SRD2	SDZ-SD15L	SAMPLE	5	06/02/10	19:56:57	1005068	
0051814-PS1	SDZ-SD15A	SAMPLE	1	06/02/10	20:04:05	1005068	
1005068-01	SDZ-SD04	SAMPLE	1	06/02/10	20:11:13	1005068	
1005068-02	SDZ-SD10	SAMPLE	1	06/02/10	20:18:22	1005068	
1005068-03	SDZ-SD01	SAMPLE	1	06/02/10	20:25:30	1005068	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: A. Jones Date: 6-7-10

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005068-04	SDZ-SD18	SAMPLE	1	06/02/10	20:32:39	1005068	
1005068-05	SDZ-SD20	SAMPLE	1	06/02/10	20:39:47	1005068	
1005068-06	SDZ-SD16	SAMPLE	1	06/02/10	20:46:56	1005068	
1005068-07	SDZ-SD19	SAMPLE	1	06/02/10	20:54:04	1005068	
CCV7	CCV1	CCV	1	06/02/10	21:01:13		
CCB7	CCB1	CCB	1	06/02/10	21:08:22		
1005068-08	SDZ-SD21	SAMPLE	1	06/02/10	21:15:31	1005068	
1005068-09	SDZ-SD13	SAMPLE	1	06/02/10	21:22:40	1005068	
1005068-10	SDZ-SD14	SAMPLE	1	06/02/10	21:29:49	1005068	
1005068-12	SDZ-SD11	SAMPLE	1	06/02/10	21:36:57	1005068	
1005068-13	SDZ-SD12	SAMPLE	1	06/02/10	21:44:06	1005068	
0052612-BLK1	PBW	PBW	1	06/02/10	21:51:15	1005131	
0052612-BS1	LCSW	LCS	1	06/02/10	21:58:23	1005131	
0052612-BSD1	LCSWD	LCS	1	06/02/10	22:05:32	1005131	
1005131-01	EB051210-SS	SAMPLE	1	06/02/10	22:12:41	1005131	
1005131-02	EB051310-SB	SAMPLE	1	06/02/10	22:19:50	1005131	
CCV8	CCV1	CCV	1	06/02/10	22:26:58		
CCB8	CCB1	CCB	1	06/02/10	22:34:07		
1005131-03	BBG-FB051310	SAMPLE	1	06/02/10	22:41:16	1005131	
1005131-04	BBG-FB051810	SAMPLE	1	06/02/10	22:48:25	1005131	
1005131-05	EB051810-SS	SAMPLE	1	06/02/10	22:55:34	1005131	
0052725-BLK1	PBW	PBW	1	06/02/10	23:02:42	1005203	
0052725-BS1	LCSW	LCS	1	06/02/10	23:09:51	1005203	
0052725-BSD1	LCSWD	LCS	1	06/02/10	23:17:00	1005203	
1005203-01	MW-10	SAMPLE	1	06/02/10	23:24:09	1005203	
SRD3	MW-10L	SAMPLE	5	06/02/10	23:31:18	1005203	
1005203-02	MW-18	SAMPLE	1	06/02/10	23:38:27	1005203	
1005203-03	MW-17	SAMPLE	1	06/02/10	23:45:36	1005203	
CCV9	CCV1	CCV	1	06/02/10	23:52:45		By Zn Sn ↓
CCB9	CCB1	CCB	1	06/02/10	23:59:59		
1005203-04	MW-22	SAMPLE	1	06/03/10	00:07:08	1005203	
1005203-05	MW-18DUP	SAMPLE	1	06/03/10	00:14:17	1005203	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Jones Date: 6-7-10

ICP Run Log (P4)

File Name: P40602

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
IBL1	IBL	SAMPLE	1	06/03/10	00:21:25		
CCVA	CCV	CCV	1	06/03/10	00:28:35		Ba, Be, Zn, Sr
CCBA	CCB	CCB	1	06/03/10	00:35:44		

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: L. Fonseca Date: 6-7-10

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: P30601, P40601A & P40602

	Ref #*	Manufacturer	Lot #	Expiration Date
HNO_3 [Baker Instra-analyzed Trace-Metals grade]	0 E19001	JT Baker	510027	05/K
HCl [Baker Instra-analyzed Trace-Metals grade]	0 E20028	Caledon	72420	05/15
SM-770-027 multi-element standard mix (RSTD-1)	9G08002	High Purity	0916328	06/15/10
SM-770-028 part A multi-element standard mix (RSTD-2A)	9J22002	High Purity	0928011	10/12/2010
SM-770-028 part B multi-element standard mix (RSTD-2B)	9J22001	High Purity	0928012	10/12/2010
SM-770-029 part A multi-element standard mix (RSTD-3A)	0D14008	High Purity	0925430	04/09/11
SM-770-029 part B multi-element standard mix (RSTD-3B)	9G08005	High Purity	0906204	10/16/10
SM-770-030 multi-element standard mix (RSTD-4)	9G08001	High Purity	0916327	06/15/10
SPEX-R multi-element standard mix	0A04007	High Purity	0916301	06/15/10
ICP-AES-CRQL-R multi-element standard mix	9I04002	High Purity	0923808	08/28/10
ICV1 multi-element standard mix	0B04003	EPA	0307	02/04/11
ICSA multi-element standard mix	0B04002	EPA	1206	02/04/11
ICSB multi-element standard mix	0B04001	EPA	0203	02/04/11
SM-770-031 multi-element standard mix (PDS-R)	9I22001	High Purity	0926418	09/17/10
ARSENIC (As) 1,000 PPM single-element standard	9F17001	High Purity	0911221	12/05/10
Internal Mix	0B04004	High Purity	0934101	12/10/10
SM-770-040 multi-element CCV mix (Soln A)	0E03001	High Purity	1010910	04/21/11
SM-770-040 multi-element CCV mix (Soln B)	0E03001	High Purity	1010911	04/21/11
SM-770-042 (LRS 6010B)	0B23007	High Purity	1004021	02/10/11

Multi-Element Stock Standard Concentrations:

Stock Standard	Analyte Concentrations (µg/mL)
RSTD-1 multi-element standard mix	Cd:1,000 Cr:1,000 Cu:1,000 Pb:1,000 Ni:1,000 Se:1,000 Ag:100 Tl:1,000 Zn:1,000
RSTD-2A/2B multi-element standard mix	Part A: As:1,000 Ba:1,000 Be:1,000 Co:1,000 Mn:1,000 Mo:1,000 V:1,000 Part B: Fe:25,000
RSTD-3A/3B multi-element standard mix	Part A: Ca:10,000 Mg:10,000 K:10,000 Na:10,000 Part B: Al:10,000
RSTD-4 multi-element standard mix	Sb:1,000 Bi:1,000 B:1,000 Sn:1,000 Ti:1,000
SPEX-R multi-element standard mix	Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 B:1,000
ICP-AES-CRQL-R multi-element standard mix	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60
PDS-R multi-element standard mix	Al:400 Ba:400 Ag:20 Be:10 Cd:10 Co:100 Cr:20 Cu:50 Fe:200 Mn:30 Ni:80 Tl:20 V:100 Zn:40 Pb:6 Se:10 As:20 Sb:120
Internal Mix	Li:50,000 Y:250
LRS 6010B multi-element standard mix	Al: 20 Sb:1 As:1 Ba:20 Be:0.5 Bi:2 B:2 Cd:0.5 Ca:500 Cr:1 Co:0.5 Cu:0.5 Fe:10 Pb:0.3 Mg:500 Mn:1 Mo:2 Ni:0.5 K:500 Se:0.5 Ti:0.5 V:2 Zn:2

Entered By: _____

Reviewed By: _____ Date: 6-3-10

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

**High Purity is abbreviated "HP" on reporting forms

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 2 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

Standard Lot Number*	LIMS ID Number	Preparation Instructions	Resultant Analyte Conc. (µg/L)
S0/ICB/CCB- 052310-JY	0E23005	Place in a 500 mL volumetric flask: 100 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Bring up to volume with deionized water. Transfer to a 2L Teflon bottle and add 1.5L deionized water. Final volume 2 L. Prepare as needed.	N/A
RSTD-1- 052610-JY	0E26010	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-1 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
RSTD-2- 052610-JY	0E26011	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL each RSTD-2A and RSTD-2B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:50,000 Mn:2,000 Mo:2,000 V:2,000
RSTD-3- 052610-JY	0E26012	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 2.0 mL each RSTD-3A and RSTD-3B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	K:100,000 Na:100,000 Al:100,000 Mg:100,000 Ca:100,000
RSTD-4- 052610-JY	0E26013	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-4 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Ti:2,000 Sb:2,000 B:2,000
ICV1- 051110-JY	0E11002	Place in a 500 mL volumetric flask: 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICV1 into flask and 0.55 mL Compuchem SPEX-R. Bring up to volume with deionized water. Transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:2,521 Ba:497 K:10,021 Mg:6,074 Na:10,097 Ca:10,026 Ag:501 Be:495 Cd:496 Co:499 Cr:490 Cu:492 Fe:5,082 Mn:499 Ni:503 Tl:1,028 V:501 Zn:1,025 Pb:1002 Se:1,029 As:999 Sb:994 Mo:1,100 Sn:1,100 Bi:1,100 Ti:1,100 B:1,100
CCV/CVS1- 051210-SGM	0E12009	Place in a 500-mL volumetric flask: 300 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Add 50 ml of SM-770-40 Soln A and Soln B. Bring up to volume with deionized water. Transfer to a 2000mL Teflon bottle and add 1.5 L of deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:25,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,100 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000
LRS- 042510-JY	0D25008	In a 500 mL volumetric flask, combine 200 mL deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 5.0mL of LRS 6010B. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:200 Ba:200 K:5,000 Mg:5,000 Na:5,000 Ca:5,000 Ag:5 Be:5 Cd:5 Co:10 Cr:10 Cu:5 Fe:100 Mn:10 Ni:5 Tl:10 V:20 Zn:20 Pb:3 Se:5 As:10 Mo:20 Sn:20 Bi:20 Ti:20 Sb:10 B:20

Standard Solutions Prepared By: _____

Entered By: _____

Reviewed By: L. Jones Date: 6-3-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation Instructions	Resultant Analyte Conc. (ug/L)
As- 051310-JF	0E13006	In a 100 mL volumetric flask, combine 50 mL deionized water, 1 mL concentrated HNO_3, 5 mL concentrated HCl, and 0.1 mL 1000-ppm As standard. Bring to final 100 mL volume	As:1,000
ICSA- 051810-JF	0E18020	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Al:244,100 Ba:2 Ca:234,900 Co:4 Cr:43 Cu:23 Fe:95,600 Mg:247,500 Mn:19 Ni:21 Zn:28 Pb:10
ICSAB- 051810-JF	0E18021	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA and 50.0 mL ICSB into flask. Add 0.5 mL Compuchem SPEX-R. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Ag:206 Al:241,100 Ba:495 Be:475 Ca:231,100 Cd:940 Co:461 Cr:511 Cu:548 Fe:94,800 Mg:251,100 Mn:502 Ni:984 Tl:103 V:494 Zn:1028 Pb:61 Se:53 Sb:589 As:101 Sn:1,000 Bi:1,000 Mo:1,000 Ti:1,000 B:1,000
EPA-CRI- 052310-JF	0E23004	In a 500 mL volumetric flask, combine 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 0.50 mL ICP-AES-CRQL-R and 25 µL Compuchem SPEX-R into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60 Sn:50 B:50 Mo:50 Bi:50 Ti:50
P3RINSE- 050910-JF	0E09008	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P4RINSE- 050910-JF	0E09006	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P5RINSE- NA	NA	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P3INTSTD- 050910-JF	0E09007	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P4INTSTD- ~~051110-JF~~ 060210	0E11004	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P5INTSTD- NA	NA	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000

Standard Solutions Prepared By: _____

Entered By: _____

Reviewed By: _____ Date: 6-3-10

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

METHOD: ALT-P4Q2 STANDARD: S0 BLANK
RUN TIME: 06/02/10 11:15:54

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
AVGE	.00933	.24341	.04028	.07785	.02960	.13690	.09915
SDEV	.00681	.00510	.00129	.00152	.00082	.00176	.00066
%RSD	72.931	2.0960	3.2095	1.9576	2.7613	1.2869	.66649
#1	.01700	.23792	.04178	.07708	.02924	.13765	.09943
#2	.00700	.24430	.03959	.07687	.03054	.13816	.09962
#3	.00400	.24800	.03948	.07961	.02903	.13489	.09839

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
AVGE	.00056	.57330	-.00155	.06447	.00355	.00049	.00138
SDEV	.00134	.00751	.00097	.06132	.00292	.00032	.00356
%RSD	238.37	1.3091	62.368	95.126	82.350	65.324	257.56
#1	-.00021	.56597	-.00146	.13515	.00640	.00021	.00543
#2	.00211	.58097	-.00063	.03285	.00367	.00084	.00000
#3	-.00021	.57297	-.00256	.02540	.00057	.00043	-.00128

ELEM	NI2316	TL1908	V_2924	ZN2062	SB2068	AS1890	22031
AVGE	.00021	-.02102	.00063	.00014	.01484	-.01067	.03958
SDEV	.00042	.00587	.00055	.00053	.00081	.01155	.04145
%RSD	202.12	27.948	87.442	386.29	5.4910	108.18	104.74
#1	.00021	-.01776	.00125	.00021	.01525	-.00982	.08731
#2	.00063	-.02780	.00042	.00063	.01390	.00042	.01264
#3	-.00021	-.01750	.00021	-.00043	.01537	-.02262	.01878

ELEM	22032	19601	19602	SN1899	BI2230	MO2020	TI3349
AVGE	-.01698	-.07042	.05002	-.00344	.00236	.00189	-.00964
SDEV	.01181	.01526	.02345	.03683	.00540	.00212	.00093
%RSD	69.564	21.669	46.876	1070.5	229.11	111.97	9.6845
#1	-.01984	-.06517	.03050	.03906	.00856	.00418	-.00856
#2	-.00400	-.08761	.07603	-.02590	-.00021	.00000	-.01011
#3	-.02711	-.05848	.04354	-.02348	-.00128	.00149	-.01024

METHOD: ALT-P4Q2 STANDARD: S RSTD-1
RUN TIME: 06/02/10 11:23:02

ELEM	AG3280	CD2265	CR2677	CU3247	NI2316	TL1908	ZN2062
AVGE	6.3973	22.799	4.8153	124.93	8.1099	6.5751	2.5734
SDEV	.0317	.151	.0476	.64	.0401	.0343	.0258
%RSD	.49486	.66181	.98763	.51158	.49425	.52199	1.0027
#1	6.3677	22.649	4.7783	124.56	8.0795	6.5616	2.5470
#2	6.3937	22.798	4.7987	124.57	8.0948	6.5497	2.5747
#3	6.4307	22.951	4.8690	125.67	8.1553	6.6142	2.5986

ELEM	22031	22032	19601	19602
AVGE	35.647	12.682	9.5844	17.663
SDEV	.217	.104	.0738	.162
%RSD	.60953	.82236	.76994	.91771
#1	35.413	12.620	9.5295	17.612
#2	35.843	12.624	9.5555	17.532
#3	35.686	12.803	9.6683	17.844

METHOD: ALT-P4Q2 STANDARD: S RSTD-3
RUN TIME: 06/02/10 11:30:11

ELEM	AL3082	CA3179	K_7664	MG2790	NA3302
AVGE	55.505	88.277	366.23	61.984	3.4006
SDEV	.340	.745	1.47	.494	.0022
%RSD	.61258	.84405	.40156	.79753	.06405
#1	55.152	87.585	364.87	61.553	3.4001
#2	55.830	89.066	367.79	62.524	3.4030
#3	55.532	88.180	366.03	61.877	3.3987

METHOD: ALT-P4Q2 STANDARD: S RSTD-2
RUN TIME: 06/02/10 11:35:47

ELEM	BA4934	BE3130	CO2286	FE2714	MN2576	V_2924	AS1890
AVGE	30.464	16.764	4.3535	6.1331	4.7797	3.5583	15.695
SDEV	.267	.055	.0295	.0365	.0199	.0162	.134
%RSD	.87488	.32803	.67689	.59510	.41553	.45521	.85280
#1	30.376	16.728	4.3421	6.1204	4.7731	3.5464	15.590
#2	30.253	16.737	4.3315	6.1046	4.7640	3.5517	15.649
#3	30.764	16.828	4.3870	6.1742	4.8021	3.5767	15.846

ELEM	MO2020
AVGE	3.9211
SDEV	.0090
%RSD	.23002
#1	3.9241
#2	3.9110
#3	3.9283

METHOD: ALT-P4Q2 STANDARD: S RSTD-4
RUN TIME: 06/02/10 11:42:10

ELEM	SB2068	SN1899	BI2230	TI3349
AVGE	5.4743	22.137	4.0129	44.060
SDEV	.0507	.280	.0439	.307
%RSD	.92578	1.2640	1.0929	.69712
#1	5.4830	22.246	4.0298	43.983
#2	5.5200	22.346	4.0457	44.399
#3	5.4198	21.819	3.9631	43.799

METHOD: ALT-P4Q2 SAMPLE NAME: ICV1 OPERATOR:
RUN TIME: 06/02/10 11:47:46
COMMENT: ICV1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	515.8570	2405.258	486.8646	521.7289	9781.315	499.9429	526.8616
SDEV	3.2722	12.153	2.5594	3.0360	65.446	2.4189	1.9374
%RSD	.6343147	.5052673	.5256869	.5819106	.6690894	.4838284	.3677292
#1	517.8085	2395.274	484.0632	521.9458	9793.294	497.5594	526.3858
#2	517.6832	2418.790	489.0805	524.6507	9839.942	502.3956	528.9926
#3	512.0793	2401.709	487.4502	518.5903	9710.706	499.8736	525.2064
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	501.0000	2521.000	497.0000	495.0000	10026.00	496.0000	499.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	494.7037	518.9940	5108.827	10843.23	5959.207	512.3681	9659.408
SDEV	12.9708	2.4530	57.288	89.63	61.101	8.4473	52.018
%RSD	2.621934	.4726491	1.121344	.8266370	1.025320	1.648669	.5385180
#1	495.6301	520.8863	5110.666	10743.75	5930.575	513.5027	9700.258
#2	507.1865	519.8732	5165.173	10868.24	6029.366	520.1907	9677.118
#3	481.2946	516.2226	5050.642	10917.70	5917.679	503.4109	9600.848
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	490.0000	492.0000	5082.000	10021.00	6074.000	499.0000	10097.00
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	503.1204	1036.527	506.0601	976.5855	999.7673	997.7474	1008.020
SDEV	4.2150	7.481	9.1195	5.5717	9.0128	7.0564	1.642
%RSD	.8377680	.7217749	1.802061	.5705331	.9014875	.7072285	.1628687
#1	498.9066	1030.434	504.2890	970.2637	993.2978	990.1998	1006.172
#2	507.3366	1034.271	515.9353	980.7809	1010.062	1004.180	1008.580
#3	503.1180	1044.877	497.9561	978.7120	995.9423	998.8627	1009.309
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	503.0000	1028.000	501.0000	1025.000	1002.000	1029.000	994.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1010.142	998.7444	1000.274	1003.619	994.8140	1116.618	1088.129
SDEV	2.265	8.6664	10.005	10.034	6.6096	6.767	3.008
%RSD	.2241840	.8677318	1.000227	.9997482	.6644040	.6060007	.2764432
#1	1008.063	997.2861	991.3030	996.2376	987.1832	1108.805	1084.706
#2	1012.555	1008.047	1011.064	1015.043	998.7538	1120.455	1090.353
#3	1009.807	990.8996	998.4562	999.5750	998.5049	1120.595	1089.328
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	999.0000					1100.000	1100.000
RANGE	10.40000					10.40000	10.40000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1117.467	1089.690	4979.489
SDEV	7.438	9.434	40.991
%RSD	.6656022	.8657723	.8232045
#1	1110.100	1095.648	5022.200
#2	1124.974	1094.609	4975.800
#3	1117.326	1078.813	4940.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1100.000	1100.000	
RANGE	10.40000	10.40000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICB OPERATOR:
RUN TIME: 06/02/10 11:54:54
COMMENT: ICB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.177407	10.26055	.0205857	.3819596	371.6671	-.263818	-1.01690
SDEV	.284073	2.70431	.1397533	.0514372	3.1922	.108746	.48606
%RSD	160.1254	26.35636	678.8842	13.46665	.8588927	41.22013	47.79838
#1	-.386120	13.16152	-.083607	.3657071	370.3370	-.319119	-1.15245
#2	-.292199	7.809284	-.034036	.3406120	369.3550	-.333799	-1.42080
#3	.1460997	9.810851	.1794007	.4395599	375.3093	-.138535	-.477452
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0044408	-.541423	-7.67832	-1440.43	2.328104	.1066872	-7.89527
SDEV	.6634517	.269741	13.90060	7.92	2.014952	.1806678	94.29770
%RSD	14939.92	49.82078	181.0371	.5498394	86.54907	169.3434	1194.356
#1	.6555210	-.680799	4.919799	-1448.47	1.356821	.0505683	-81.3362
#2	-.670726	-.712962	-22.5909	-1440.20	.9827647	-.039262	-40.7943
#3	.0285279	-.230507	-5.36388	-1432.63	4.644726	.3087548	98.44470
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.032504	4.263839	.3127922	.5598137	-.114733	.9238452	.5371329
SDEV	.658917	.619185	.5758998	.4073666	1.162735	.9237508	1.680325
%RSD	2027.172	14.52177	184.1157	72.76824	1013.423	99.98977	312.8322
#1	.5807464	4.876890	-.348678	.9920576	.0511236	1.418539	1.372858
#2	-.729147	3.638697	.5843365	.1830012	-1.35149	-.141899	-1.39719
#3	.0508883	4.275931	.7027181	.5043823	.9561667	1.494896	1.635735
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.892498	2.048598	-1.19732	-.271265	1.517964	-.177647	1.146668
SDEV	2.023077	3.584925	2.78888	3.172283	2.408576	1.064508	1.002077
%RSD	226.6759	174.9941	232.9273	1169.439	158.6714	599.2258	87.39032
#1	-1.03635	-2.05871	1.101893	-3.88548	4.064006	-.381004	.6380442
#2	-2.83981	4.548570	-4.29963	1.019639	-.724331	.9738706	2.301055
#3	1.198667	3.655934	-.394214	2.052046	1.214218	-1.12581	.5009057
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.860700	.0555532	4757.466
SDEV	1.171577	.3186887	44.030
%RSD	40.95421	573.6638	.9254966
#1	4.057442	.0970928	4708.999
#2	2.808634	-.281868	4768.400
#3	1.716024	.3514352	4794.999
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 06/02/10 12:02:03
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.277328	-6.54558	-.015959	5.134851	378.0253	4.521819	50.31349
SDEV	.109946	8.15571	.039690	.202733	.0992	.119302	1.06749
%RSD	1.185108	124.5988	248.7063	3.948185	.0262413	2.638372	2.121673
#1	9.162536	2.053072	-.013788	5.337730	378.0754	4.659452	51.49747
#2	9.287764	-7.51879	.0226015	5.134559	378.0894	4.447919	49.42456
#3	9.381684	-14.1710	-.056689	4.932264	377.9110	4.458085	50.01843
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.940142	24.95370	2.378596	-1438.85	-3.34990	16.55349	-16.2376
SDEV	.858723	.08954	6.432775	4.55	1.55425	.32974	41.9617
%RSD	8.638940	.3588255	270.4442	.3163585	46.39683	1.991977	258.4223
#1	10.48303	25.03411	5.137306	-1438.54	-5.05902	16.92047	30.84710
#2	10.38727	24.85721	6.971906	-1434.46	-2.96956	16.28213	-49.6821
#3	8.950116	24.96978	-4.97342	-1443.55	-2.02113	16.45786	-29.8779
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	40.05512	26.08977	50.37538	60.26712	10.15265	36.81860	60.42986
SDEV	.50868	1.11395	.21165	.83908	1.33616	2.08578	.78580
%RSD	1.269957	4.269673	.4201406	1.392276	13.16067	5.665008	1.300358
#1	40.60336	25.45176	50.53616	60.78901	8.680197	38.50534	61.06460
#2	39.59843	25.44151	50.13559	60.71313	10.48983	34.48639	59.55096
#3	39.96357	27.37603	50.45438	59.29922	11.28791	37.46408	60.67402
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.995400	10.78454	9.834232	37.37555	36.53802	48.41082	48.46492
SDEV	.918644	3.11168	.675018	3.31991	1.75721	.48550	2.03875
%RSD	9.190665	28.85314	6.863965	8.882568	4.809263	1.002868	4.206660
#1	10.74730	7.798119	9.117700	38.68827	38.41145	48.33545	47.46518
#2	10.26744	10.54757	10.45818	33.59999	34.92641	47.96742	50.81057
#3	8.971459	14.00793	9.926821	39.83838	36.27620	48.92960	47.11901
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000					50.00000	
RANGE	3.000000					15.00000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	49.73163	48.85184	4793.955
SDEV	1.06106	.25996	55.695
%RSD	2.133570	.5321299	1.161786
#1	50.00424	49.07302	4731.267
#2	50.62978	48.56550	4812.866
#3	48.56086	48.91699	4837.733
ERRORS	NOCHECK	NOCHECK	NOCHECK
VALUE			
RANGE			

METHOD: ALT-P4Q2 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 06/02/10 12:09:11
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0104357	248935.2	2.508883	.9432038	246167.0	3.208289	-2.17242
SDEV	.8051051	412.9	.190284	.2738830	3049.2	.578744	.62178
%RSD	7714.912	.1658838	7.584423	29.03752	1.238686	18.03902	28.62134
#1	-.323506	249409.6	2.397012	.6305985	246746.2	2.541422	-2.25096
#2	-.573963	248738.9	2.401045	1.058029	242869.8	3.504160	-2.75120
#3	.9287763	248657.0	2.728592	1.140984	248885.1	3.579285	-1.51511
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	10.00000	48820.00	400.0000	10.00000	46980.00	10.00000	10.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	43.25840	23.26510	97904.41	-1436.26	265271.0	19.34065	910.1434
SDEV	1.12137	.40172	1302.94	10.45	2814.5	.52919	158.8510
%RSD	2.592259	1.726726	1.330831	.7273676	1.061009	2.736158	17.45340
#1	42.45100	23.58674	96724.19	-1443.85	262171.2	18.75668	796.4518
#2	42.78542	22.81481	97686.48	-1440.58	265975.5	19.47683	842.3325
#3	44.53876	23.39376	99302.59	-1424.34	267666.4	19.78845	1091.646
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	10.00000	19120.00	2000.000	49500.00	20.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.90969	8.367122	-.809176	30.85435	7.696450	-2.57075	1.831376
SDEV	.47635	4.197357	2.013319	.60360	1.846428	3.81327	1.041828
%RSD	2.174138	50.16489	248.8110	1.956285	23.99064	148.3332	56.88770
#1	21.50541	3.874992	-1.79704	31.21634	9.822396	1.649332	1.616405
#2	21.78884	9.037308	-2.13776	30.15755	6.493614	-5.76902	.9138031
#3	22.43483	12.18906	1.507267	31.18916	6.773341	-3.59256	2.963921
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	1.000000	28.00000	10.00000	.0000000	.0000000
RANGE	10.00000	20.00000	40.00000	40.00000	6.000000	10.00000	20.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.89717	-5.58238	14.32259	10.79875	-9.24814	.5563390	3.726628
SDEV	2.96301	10.37708	6.35775	9.57147	7.19822	6.109599	3.539012
%RSD	156.1804	185.8898	44.38965	88.63502	77.83422	1098.179	94.96552
#1	-2.00681	-8.93535	19.18392	8.370269	-1.70873	-3.33856	2.110227
#2	1.119138	-13.8684	16.65601	2.675435	-9.98760	-2.59028	1.284438
#3	-4.80383	6.056633	7.127832	21.35055	-16.0481	7.597856	7.785221
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	20.00000					100.0000	100.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-1.06775	-4.65285	4548.755
SDEV	1.52710	.22294	47.067
%RSD	143.0205	4.791405	1.034732
#1	-2.30975	-4.39972	4595.667
#2	.6372773	-4.81997	4501.533
#3	-1.53078	-4.73886	4549.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	100.0000	100.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 06/02/10 12:16:19
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	207.1171	246744.4	488.9330	511.8936	252206.9	958.9493	502.1979
SDEV	.7112	1370.5	3.7680	.7380	1320.8	2.3151	3.1935
%RSD	.3433616	.5554464	.7706654	.1441769	.5236855	.2414244	.6359007
#1	206.3031	248233.3	492.9616	511.2072	250945.5	957.6842	498.8228
#2	207.6180	245535.5	485.4953	512.6742	253579.9	961.6214	505.1719
#3	207.4302	246464.3	488.3421	511.7993	252095.4	957.5425	502.5990
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	92.20000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	525.0165	545.6525	99615.48	-1422.28	265252.2	524.8723	885.4405
SDEV	3.0565	2.5776	145.36	12.00	1147.8	2.1364	148.6960
%RSD	.5821655	.4723847	.1459202	.8437064	.4327171	.4070293	16.79345
#1	527.3236	544.0925	99455.32	-1408.83	265423.8	525.1173	1050.847
#2	526.1758	544.2372	99652.09	-1426.15	264028.2	526.8756	842.6248
#3	521.5499	548.6276	99739.04	-1431.87	266304.5	522.6240	762.8497
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	998.7552	104.3047	500.3286	952.3929	56.16474	50.12809	615.6316
SDEV	1.7910	2.2068	3.5037	8.4336	.32411	1.16475	1.4741
%RSD	.1793262	2.115736	.7002849	.8855121	.5770629	2.323549	.2394383
#1	997.9069	106.5914	504.3632	943.2680	55.81467	48.88481	615.6164
#2	1000.813	104.1351	498.5720	959.9011	56.22518	51.19395	614.1652
#3	997.5459	102.1875	498.0507	954.0095	56.45437	50.30551	617.1132
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	20.60000	98.80000	205.6000	12.20000	10.60000	117.8000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	103.5727	51.67522	58.40229	63.70169	43.34890	998.6625	1003.101
SDEV	3.9125	12.79528	6.83755	9.81863	5.97188	.7382	6.597
%RSD	3.777588	24.76096	11.70767	15.41346	13.77631	.0739172	.6576870
#1	100.6439	66.43654	50.50782	72.69814	36.99341	998.4908	1009.086
#2	102.0581	43.74979	62.44970	65.17870	44.20951	999.4714	996.0270
#3	108.0161	44.83932	62.24936	53.22823	48.84379	998.0253	1004.188
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	101.0000					1000.000	1000.000
RANGE	20.20000					200.0000	200.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	971.2037	965.1730	4724.889
SDEV	3.4612	5.5235	31.634
%RSD	.3563868	.5722855	.6695229
#1	967.5717	970.0785	4688.400
#2	971.5751	966.2503	4744.600
#3	974.4642	959.1902	4741.667
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	200.0000	200.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 12:23:28
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	101.8941	47110.82	939.6988	1044.399	48807.18	981.7039	1024.030
SDEV	.1129	335.00	7.3391	9.988	493.52	12.4746	8.181
%RSD	.1107794	.7110860	.7810037	.9563544	1.011172	1.270705	.7989394
#1	101.9254	47378.02	948.1668	1052.696	49128.31	993.3401	1031.230
#2	101.9880	47219.46	935.7524	1047.188	49054.32	983.2385	1025.726
#3	101.7688	46734.98	935.1774	1033.313	48238.91	968.5330	1015.133
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	991.2111	1010.928	25161.43	51568.54	50014.70	1019.753	49859.02
SDEV	17.0176	2.327	257.22	484.62	391.44	11.199	276.43
%RSD	1.716848	.2302111	1.022268	.9397520	.7826454	1.098183	.5544304
#1	990.8013	1009.261	25291.81	51981.53	50166.55	1028.037	50018.69
#2	1008.430	1013.587	25327.35	51689.04	50307.46	1024.210	50018.54
#3	974.4020	1009.936	24865.13	51035.04	49570.09	1007.012	49539.82
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	990.3199	997.8918	1012.366	1067.905	984.4180	994.0190	1011.928
SDEV	7.5980	3.5506	8.530	11.816	12.8973	10.4396	5.149
%RSD	.7672241	.3558080	.8426075	1.106488	1.310146	1.050241	.5088440
#1	997.2468	1001.968	1009.852	1078.030	997.0626	1002.836	1016.782
#2	991.5192	995.4732	1021.870	1070.763	984.9095	996.7300	1012.475
#3	982.1935	996.2341	1005.375	1054.922	971.2820	982.4914	1006.528
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1012.259	979.1633	987.0386	996.8642	992.5963	1032.774	989.3755
SDEV	4.915	19.2230	9.7538	9.4501	11.0619	9.995	8.5675
%RSD	.4855686	1.963207	.9881864	.9479780	1.114438	.9677426	.8659514
#1	1017.872	997.5358	996.8234	1006.140	1001.184	1042.223	997.5449
#2	1010.180	980.7642	986.9763	997.2031	996.4915	1033.787	990.1229
#3	1008.726	959.1899	977.3162	987.2493	980.1137	1022.311	980.4589
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1027.959	997.2328	4907.777
SDEV	3.211	5.2629	41.704
%RSD	.3124057	.5277484	.8497505
#1	1031.578	1002.378	4869.466
#2	1026.852	997.4614	4901.667
#3	1025.448	991.8593	4952.200
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 12:30:38
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.156535	5.877749	-.021665	.2643455	370.5971	-.356753	-2.25569
SDEV	.018075	2.941066	.065664	.0219456	.5372	.207932	.44869
%RSD	11.54701	50.03727	303.0894	8.301846	.1449609	58.28464	19.89130
#1	-.135664	9.182363	-.090798	.2857886	371.0412	-.421132	-2.45055
#2	-.166971	3.547571	.0398679	.2653180	369.9999	-.524881	-2.57400
#3	-.166971	4.903314	-.014064	.2419298	370.7500	-.124245	-1.74252
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.291907	-.873782	-9.37459	-1441.28	-2.29903	.0207311	68.47156
SDEV	.334384	.297840	11.43131	5.04	1.08933	.1033398	77.44003
%RSD	114.5515	34.08637	121.9393	.3496234	47.38200	498.4777	113.0981
#1	-.055585	-.568226	3.244448	-1446.86	-1.09984	.1400565	-20.5291
#2	-.674505	-1.16326	-12.3308	-1437.07	-2.56986	-.038479	120.4630
#3	-.145633	-.889864	-19.0374	-1439.90	-3.22739	-.039384	105.4808
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.228859	3.606866	.0021164	.5609796	-.474687	.5682136	-1.58360
SDEV	.242931	1.455709	.1207416	.6555808	1.592876	.6916200	1.22387
%RSD	106.1487	40.35939	5705.139	116.8636	335.5636	121.7183	77.28421
#1	-.372797	4.354288	.0087765	1.317975	-1.82181	.2296348	-.328107
#2	.0516209	1.929273	.1193901	.1804852	1.283400	.1111154	-2.77318
#3	-.365400	4.537038	-.121817	.1844781	-.885646	1.363891	-1.64950
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.262721	.4836521	-.955689	2.121432	-.209782	-.694921	.2328445
SDEV	2.083638	2.470141	1.289575	1.923655	1.880173	.317565	1.443054
%RSD	793.1002	510.7269	134.9367	90.67718	896.2501	45.69802	619.7501
#1	1.714057	-2.12879	-1.67113	1.569550	-.441891	-.328476	-1.38969
#2	-2.43888	2.781318	.5330097	4.260708	-1.96312	-.866469	1.372650
#3	-.063335	.7984260	-1.72895	.5340376	1.775669	-.889819	.7155750
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.729860	-.250903	4736.289
SDEV	.791800	.232660	42.792
%RSD	29.00517	92.72874	.9034899
#1	3.632664	-.001289	4696.466
#2	2.403579	-.461733	4730.866
#3	2.153335	-.289689	4781.533
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: LRS OPERATOR:
RUN TIME: 06/02/10 12:40:28
COMMENT: SDG:LRS CLIENTID:LRS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.099400	172.3852	185.4182	4.900778	5029.020	4.516913	3.222087
SDEV	.937297	8.2501	1.9744	.190712	52.856	.327729	.431103
%RSD	30.24124	4.785857	1.064819	3.891456	1.051025	7.255606	13.37963
#1	3.746413	167.3239	184.1205	4.877755	5088.263	4.882414	3.432006
#2	L2.024524	167.9265	184.4438	4.722623	4986.691	4.249233	2.726231
#3	3.527263	181.9053	187.6904	5.101956	5012.105	4.419090	3.508025
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	300.0000	300.0000	7.500000	7500.000	7.500000	7.500000
LOW	2.500000	100.0000	100.0000	2.500000	2500.000	2.500000	2.500000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.15023	4.417153	63.78285	4610.531	4919.286	10.33629	4588.876
SDEV	.31264	.181233	3.03940	53.751	35.530	.16355	95.519
%RSD	3.080104	4.102948	4.765227	1.165823	.7222669	1.582270	2.081528
#1	10.50952	4.513644	67.19490	4559.246	4927.878	10.37875	4618.730
#2	9.940220	4.529726	62.78843	4605.900	4880.247	10.15571	4481.996
#3	10.00094	4.208089	61.36522	4666.447	4949.732	10.47443	4665.902
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	15.00000	7.500000	150.0000	7500.000	7500.000	15.00000	7500.000
LOW	5.000000	2.500000	50.00000	2500.000	2500.000	5.000000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.177328	11.80526	19.64342	20.21074	3.384476	5.716173	9.501459
SDEV	.541821	1.72173	.77186	.53918	.444168	.899682	.915148
%RSD	8.771120	14.58440	3.929380	2.667772	13.12369	15.73923	9.631658
#1	6.779569	11.74780	20.30032	20.75667	3.021992	6.596346	8.689941
#2	5.729411	10.11298	18.79330	20.19697	3.879946	5.753996	10.49337
#3	6.023004	13.55499	19.83662	19.67858	3.251488	4.798176	9.321066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	15.00000	30.00000	30.00000	4.500000	7.500000	15.00000
LOW	2.500000	5.000000	10.00000	10.00000	1.500000	2.500000	5.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.659812	.4183056	4.862542	4.437860	6.351886	19.24604	18.26924
SDEV	1.394164	7.097351	4.180836	8.886908	4.491973	3.15716	3.43749
%RSD	14.43262	1696.691	85.98045	200.2521	70.71873	16.40423	18.81571
#1	10.04092	4.097519	2.482266	10.81897	4.485736	19.86594	21.33827
#2	10.82379	-7.76322	9.690001	-5.71245	11.47613	15.82490	14.55479
#3	8.114724	4.920617	2.415360	8.207056	3.093788	22.04727	18.91464
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	15.00000					30.00000	30.00000
LOW	5.000000					10.00000	10.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	20.31451	19.75313	4864.222
SDEV	.77881	.19419	42.097
%RSD	3.833781	.9830970	.8654362
#1	21.13104	19.57088	4909.800
#2	19.57990	19.73113	4856.066
#3	20.23257	19.95739	4826.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	30.00000	30.00000	
LOW	10.00000	10.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-03 OPERATOR:
RUN TIME: 06/02/10 12:47:36
COMMENT: SDG:1005066 CLIENTID:SDZ-SD26 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.949648	16601.59	30.36015	1.383077	176611.5	-.562136	-.928533
SDEV	.236363	94.80	.30494	.061791	1950.6	.153830	.273974
%RSD	24.88956	.5710426	1.004410	4.467627	1.104439	27.36523	29.50608
#1	-1.20010	16576.08	30.00908	1.338140	177193.3	-.413718	-.700800
#2	-.918341	16706.53	30.51224	1.453541	174436.2	-.551833	-1.23257
#3	-.730498	16522.15	30.55914	1.357549	178205.0	-.720859	-.852229
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	67.99194	7.461987	22798.95	4501.195	14205.60	169.3661	42134.68
SDEV	1.25928	.266365	143.84	48.995	28.18	1.6997	213.36
%RSD	1.852107	3.569624	.6309211	1.088489	.1983936	1.003544	.5063758
#1	69.29471	7.713937	22879.59	4493.507	14227.16	171.3214	41931.52
#2	66.78119	7.183234	22632.88	4553.579	14215.92	168.2423	42356.95
#3	67.89992	7.488790	22884.39	4456.498	14173.71	168.5345	42115.57
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.32221	-4.32085	58.27767	61.82564	21.07237	1.631462	9.482485
SDEV	.58568	1.47361	.35884	1.18338	.35949	1.212421	1.977457
%RSD	4.753037	34.10459	.6157378	1.914057	1.705990	74.31502	20.85378
#1	12.93070	-3.34559	57.93029	62.35586	21.17399	2.884930	11.20921
#2	12.27356	-3.60094	58.64696	60.46987	20.67300	.4647479	7.325234
#3	11.76237	-6.01603	58.25576	62.65118	21.37011	1.544708	9.913006
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.19319	23.50226	19.85611	-16.9943	10.92779	19.35993	.7451075
SDEV	2.39126	3.73700	1.90163	.1767	1.90508	.85440	2.513678
%RSD	18.12497	15.90062	9.577059	1.039703	17.43336	4.413222	337.3578
#1	15.62502	19.41208	22.05036	-17.1880	12.90374	18.49823	.4525274
#2	13.10990	24.35656	18.83072	-16.8420	9.102533	19.37474	-1.60948
#3	10.84467	26.73815	18.68724	-16.9529	10.77708	20.20683	3.392273
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.925630	463.2111	4671.466
SDEV	.583600	.8473	56.679
%RSD	14.86639	.1829158	1.213311
#1	4.589220	464.1231	4636.600
#2	3.695445	462.4484	4640.933
#3	3.492225	463.0619	4736.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-04 OPERATOR:
RUN TIME: 06/02/10 12:54:45
COMMENT: SDG:1005066 CLIENTID:SDZ-SD27 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.438299	2689.624	14.00313	.5465189	127968.7	-1.00605	-4.17156
SDEV	.188710	85.017	.37862	.1854018	3433.4	.14065	.81843
%RSD	43.05510	3.160909	2.703851	33.92413	2.682978	13.98006	19.61925
#1	-.260892	2766.523	14.44005	.7126399	130117.6	-.952470	-3.59883
#2	-.417428	2598.328	13.77113	.3465111	124009.0	-1.16561	-5.10893
#3	-.636577	2704.023	13.79822	.5804057	129779.5	-.900062	-3.80691
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.35733	.6057508	7471.604	235.2288	5899.366	60.07012	20317.54
SDEV	.85589	.2228369	167.471	29.7467	133.106	.93428	451.12
%RSD	2.645105	36.78689	2.241433	12.64585	2.256270	1.555314	2.220346
#1	32.97334	.8630606	7609.457	262.4212	6008.256	61.09117	20640.52
#2	32.71860	.4770958	7285.230	203.4586	5750.983	59.25799	19802.12
#3	31.38004	.4770958	7520.125	239.8068	5938.857	59.86120	20510.00
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.354883	-3.38761	15.17847	20.66008	7.934918	.9567683	10.89224
SDEV	.481991	1.70255	.70287	.22800	1.753109	1.665202	.52624
%RSD	14.36684	50.25816	4.630704	1.103562	22.09360	174.0444	4.831339
#1	3.905887	-2.67293	15.98413	20.81867	7.641840	2.668041	10.54318
#2	3.011480	-2.15888	14.69074	20.39879	6.346818	.8604439	11.49752
#3	3.147281	-5.33101	14.86054	20.76277	9.816095	-.658180	10.63601
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.818549	15.08717	4.361283	-19.0940	10.96459	15.87021	-.052700
SDEV	1.026234	1.40266	2.765382	4.2602	1.66239	1.32535	1.151067
%RSD	13.12564	9.297009	63.40754	22.31152	15.16145	8.351192	2184.168
#1	6.634115	16.70194	3.115652	-17.2760	12.62251	16.43093	.1244758
#2	8.442289	14.17098	2.437800	-16.0445	9.297762	14.35666	.9995058
#3	8.379243	14.38859	7.530398	-23.9616	10.97351	16.82304	-1.28208

ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.236157	79.17300	4740.999
SDEV	.669422	2.00922	106.840
%RSD	54.15350	2.537754	2.253531
#1	1.252750	80.42353	4640.667
#2	1.897128	76.85538	4853.333
#3	.5585923	80.24010	4728.999

ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-05 OPERATOR:
RUN TIME: 06/02/10 13:01:53
COMMENT: SDG:1005066 CLIENTID:SDZ-SD29 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.438299	16352.30	29.18882	1.143188	117946.6	-.549551	-1.86624
SDEV	.072301	58.32	.22107	.137002	1491.9	.092282	.38443
%RSD	16.49572	.3566391	.7573960	11.98425	1.264909	16.79220	20.59923
#1	-.354813	16416.05	28.95791	1.106917	118518.6	-.460903	-1.51928
#2	-.480042	16339.20	29.21002	1.027970	119067.8	-.542669	-1.79994
#3	-.480042	16301.64	29.39853	1.294676	116253.3	-.645081	-2.27952
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	71.58408	5.928849	24655.55	3713.780	10273.22	159.0222	21562.78
SDEV	1.31271	.169433	173.92	49.142	38.48	1.3371	118.13
%RSD	1.833808	2.857774	.7053905	1.323242	.3745872	.8408226	.5478530
#1	70.27471	5.944931	24502.95	3697.317	10237.30	157.5996	21673.88
#2	72.90012	6.089667	24844.91	3674.983	10313.83	160.2530	21438.69
#3	71.57743	5.751948	24618.79	3769.040	10268.52	159.2141	21575.76
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.38164	-5.77017	56.21971	52.39514	17.87867	1.067096	10.57591
SDEV	.63631	.65170	.60727	.57451	.47851	1.536917	.24327
%RSD	4.755080	11.29434	1.080171	1.096502	2.676450	144.0280	2.300241
#1	12.72390	-6.23857	56.69491	52.33097	18.14220	.7167348	10.46857
#2	13.99409	-6.04605	56.42867	52.99905	18.16748	-.264392	10.40477
#3	13.42692	-5.02591	55.53555	51.85541	17.32632	2.748944	10.85439
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.70778	23.13185	15.25314	-17.5947	10.38144	15.60126	-1.53103
SDEV	1.63103	2.75089	.77019	3.4872	1.91528	.46688	1.16599
%RSD	10.38361	11.89220	5.049404	19.81972	18.44910	2.992599	76.15736
#1	13.83011	25.63317	14.39947	-14.8485	8.485142	15.55728	-2.65903
#2	16.77322	23.57675	15.46404	-21.5182	10.34403	16.08858	-.330435
#3	16.52003	20.18564	15.89591	-16.4174	12.31516	15.15793	-1.60363
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	9.753926	472.8316	4737.466
SDEV	.672482	5.0982	30.676
%RSD	6.894479	1.078238	.6475119
#1	9.985238	476.9894	4748.200
#2	10.28022	474.3621	4761.333
#3	8.996317	467.1435	4702.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-06 OPERATOR:
RUN TIME: 06/02/10 13:09:02
COMMENT: SDG:1005066 CLIENTID:SDZ-SD29D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.354813	16675.80	33.18407	1.511330	117770.8	-.811653	-1.98511
SDEV	.278263	138.08	.36355	.164422	2888.3	.087329	.67268
%RSD	78.42526	.8280207	1.095543	10.87931	2.452468	10.75936	33.88606
#1	-.667884	16660.34	33.05921	1.571335	114678.9	-.710815	-2.74751
#2	-.135664	16820.95	33.59360	1.637322	118234.0	-.861773	-1.47525
#3	-.260892	16546.10	32.89941	1.325333	120399.5	-.862372	-1.73258
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	70.36699	8.019491	24521.33	3853.169	10220.67	158.3763	21507.41
SDEV	1.22479	.426397	501.49	85.377	118.09	3.0023	97.36
%RSD	1.740567	5.317010	2.045118	2.215769	1.155427	1.895703	.4526705
#1	68.97034	8.437620	23962.90	3917.718	10087.56	154.9115	21609.41
#2	70.87260	7.585281	24667.85	3885.426	10261.58	160.0066	21497.35
#3	71.25802	8.035573	24933.25	3756.363	10312.86	160.2107	21415.47
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.09152	-4.58720	55.04761	51.89531	17.85767	1.504818	9.087273
SDEV	.07454	1.27256	.78511	2.08581	.33234	.284660	2.665587
%RSD	.5693797	27.74156	1.426243	4.019267	1.861054	18.91655	29.33319
#1	13.06913	-3.20151	54.18800	49.61988	17.74380	1.448966	10.04326
#2	13.03074	-4.85662	55.72682	52.34936	17.59724	1.252224	6.075523
#3	13.17469	-5.70348	55.22801	53.71670	18.23198	1.813264	11.14303
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.89803	22.54740	15.51346	-15.7122	10.09789	15.25755	.2749627
SDEV	.26621	4.64360	2.58756	1.8908	1.03142	1.54994	.6098430
%RSD	1.786898	20.59482	16.67946	12.03406	10.21418	10.15851	221.7911
#1	15.18645	18.75096	17.23808	-17.8680	11.09039	15.87418	.1091207
#2	14.66173	27.72483	12.53816	-14.3349	9.031530	13.49420	.9505732
#3	14.84590	21.16640	16.76415	-14.9338	10.17173	16.40428	-.234806
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.62858	494.7921	4746.999
SDEV	1.17272	.1246	58.793
%RSD	11.03368	.0251841	1.238526
#1	9.882254	494.8505	4697.533
#2	10.02321	494.8769	4731.466
#3	11.98028	494.6491	4811.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-07 OPERATOR:
RUN TIME: 06/02/10 13:16:10
COMMENT: SDG:1005066 CLIENTID:SDZ-SD17 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.751370	36330.41	51.68047	1.630951	57801.56	-.436321	1.225568
SDEV	.130342	336.06	.16817	.267221	432.64	.029807	.864775
%RSD	17.34722	.9249982	.3254067	16.38436	.7484878	6.831426	70.56113
#1	-.605270	36535.75	51.79842	1.938718	57687.59	-.470128	1.943289
#2	-.855726	35942.59	51.75509	1.496218	57437.32	-.425012	.2654648
#3	-.793112	36512.89	51.48790	1.457918	58279.78	-.413824	1.467952
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	118.3804	19.71637	47705.91	9252.820	19075.60	248.1481	50892.65
SDEV	1.8291	.34504	481.69	124.581	183.03	2.5742	216.39
%RSD	1.545100	1.750027	1.009704	1.346413	.9594956	1.037347	.4251956
#1	117.1954	19.55019	47788.08	9387.749	19081.38	248.7983	51088.77
#2	117.4588	20.11306	47188.42	9142.157	18889.74	245.3112	50660.50
#3	120.4870	19.48587	48141.22	9228.554	19255.66	250.3348	50928.69
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	27.92017	-5.34448	114.0315	115.2025	38.14587	3.180335	8.519068
SDEV	.42076	1.14071	1.9231	1.3437	1.11265	1.068309	1.646103
%RSD	1.507022	21.34371	1.686441	1.166421	2.916840	33.59108	19.32258
#1	28.05793	-4.37305	113.7738	115.4432	37.17800	3.393165	10.41440
#2	28.25479	-5.05983	112.2503	113.7546	39.36153	2.021631	7.695707
#3	27.44780	-6.60057	116.0705	116.4096	37.89809	4.126207	7.447100
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	29.12284	41.32900	36.55333	-14.8390	12.17406	15.33102	-1.53640
SDEV	1.60386	.73337	1.85171	3.8628	1.83571	2.08987	1.84244
%RSD	5.507225	1.774463	5.065783	26.03114	15.07887	13.63163	119.9196
#1	30.41813	42.10199	34.71629	-18.3498	14.24585	16.00513	.5787815
#2	27.32888	41.24200	38.41937	-15.4664	10.75008	17.00064	-2.79173
#3	29.62150	40.64302	36.52432	-10.7010	11.52625	12.98730	-2.39624
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	12.90899	746.7852	4934.044
SDEV	.51883	1.9501	54.048
%RSD	4.019131	.2611316	1.095415
#1	12.55344	744.8301	4874.866
#2	13.50434	748.7303	4980.800
#3	12.66918	746.7952	4946.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-09 OPERATOR:
RUN TIME: 06/02/10 13:23:18
COMMENT: SDG:1005066 CLIENTID:SDZ-SD23 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.761805	2424.642	10.85148	.1669523	100689.9	-.675297	-3.15481
SDEV	.205294	15.261	.13170	.1071100	1187.5	.257246	.51526
%RSD	26.94838	.6294177	1.213666	64.15604	1.179344	38.09381	16.33264
#1	-.730498	2409.647	10.70347	.1697504	100886.3	-.551536	-2.56659
#2	-.573963	2424.124	10.89526	.0584706	101766.9	-.503323	-3.37145
#3	-.980955	2440.156	10.95572	.2726358	99416.45	-.971033	-3.52638
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	35.45745	.8630603	7631.057	362.9706	6180.653	58.42391	25612.28
SDEV	.97441	.3055558	48.492	22.3404	15.707	.44065	118.96
%RSD	2.748106	35.40376	.6354573	6.154880	.2541289	.7542308	.4644547
#1	34.34438	.5575044	7622.514	347.4160	6194.267	58.42992	25540.43
#2	36.15640	.8630606	7683.253	352.9256	6184.226	58.86153	25546.83
#3	35.87157	1.168616	7587.405	388.5702	6163.468	57.98029	25749.60
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.998533	-6.34322	13.37455	21.88855	8.086263	1.919207	13.22684
SDEV	1.025526	1.91267	.41193	.39204	.835110	.902349	1.44389
%RSD	25.64755	30.15303	3.079941	1.791056	10.32752	47.01674	10.91639
#1	3.097359	-4.13472	13.51161	21.54755	8.323322	2.152196	12.80097
#2	3.783826	-7.46154	13.70048	21.80121	7.158251	2.682212	12.04378
#3	5.114415	-7.43340	12.91157	22.31689	8.777214	.9232126	14.83577
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.340138	8.821542	7.716321	-20.4533	13.08614	18.22906	-1.25662
SDEV	2.289852	5.594372	3.590742	7.0929	2.90756	1.49339	1.44398
%RSD	27.45581	63.41716	46.53439	34.67831	22.21859	8.192354	114.9103
#1	5.790830	13.42906	5.771451	-13.0431	9.735926	16.66464	-.129891
#2	9.007173	10.43889	5.517550	-21.1376	14.57173	19.63948	-.755579
#3	10.22241	2.596677	11.85996	-27.1792	14.95077	18.38308	-2.88438
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.5762484	93.94248	4768.377
SDEV	.8887567	.70784	52.348
%RSD	154.2315	.7534782	1.097824
#1	.8546076	93.17165	4808.133
#2	1.292508	94.09254	4787.933
#3	-.418370	94.56325	4709.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-10 OPERATOR:
RUN TIME: 06/02/10 13:30:26
COMMENT: SDG:1005066 CLIENTID:SDZ-SD23D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.313071	2679.151	17.18615	.7228166	101045.9	-.421641	-2.55780
SDEV	.118527	60.388	.44532	.3830817	544.3	.164410	.47918
%RSD	37.85939	2.254013	2.591153	52.99847	.5386844	38.99276	18.73407
#1	-.260892	2747.756	17.69305	1.094133	101330.2	-.231803	-2.11323
#2	-.229585	2655.656	17.00755	.7453528	100418.4	-.515282	-2.49481
#3	-.448735	2634.041	16.85787	.3289643	101389.3	-.517839	-3.06536
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.09087	1.758284	8068.315	146.9373	5511.208	62.88182	19472.52
SDEV	.20508	.269741	24.551	42.7772	72.891	.34587	397.17
%RSD	.5682361	15.34116	.3042860	29.11256	1.322604	.5500307	2.039643
#1	36.26621	1.618908	8096.588	192.8504	5595.234	63.11269	19919.93
#2	35.86536	1.586745	8055.962	139.7565	5464.957	63.04861	19336.07
#3	36.14104	2.069200	8052.393	108.2049	5473.435	62.48416	19161.57
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.061824	-6.44820	15.44063	21.55254	9.853696	1.263197	11.72665
SDEV	1.250448	2.20839	.26676	.54005	.089112	1.260015	1.37218
%RSD	40.83998	34.24813	1.727661	2.505752	.9043541	99.74805	11.70137
#1	1.684713	-8.42858	15.49840	21.15356	9.947045	2.305672	12.88240
#2	3.374487	-4.06677	15.67377	21.33698	9.769532	1.620921	10.21013
#3	4.126271	-6.84924	15.14971	22.16708	9.844511	-.137001	12.08743
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.053035	18.39018	5.588953	-15.1723	9.466049	18.58182	.5120614
SDEV	1.383907	2.82535	1.369542	4.8811	.599810	.18091	.5863448
%RSD	19.62144	15.36334	24.50444	32.17098	6.336436	.9735780	114.5067
#1	7.487911	20.71269	4.569316	-10.7134	8.802813	18.44902	1.136794
#2	5.503921	19.21314	5.051919	-14.4161	9.624866	18.50857	.4257075
#3	8.167273	15.24473	7.145624	-20.3873	9.970469	18.78786	-.026318
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.162103	92.39443	4695.800
SDEV	.614657	1.04910	123.530
%RSD	52.89175	1.135457	2.630645
#1	1.852382	93.29890	4565.866
#2	.6739955	91.24430	4709.800
#3	.9599333	92.64008	4811.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-11 OPERATOR:
RUN TIME: 06/02/10 13:37:34
COMMENT: SDG:1005066 CLIENTID:SDZ-SD22 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.594834	2469.909	14.34206	.3877866	244415.1	-.419491	-2.78087
SDEV	.160655	28.685	.09366	.1503870	3731.2	.161450	.56207
%RSD	27.00843	1.161366	.6530572	38.78085	1.526566	38.48707	20.21216
#1	-.417428	2476.510	14.25519	.5394249	243314.0	-.565058	-2.54228
#2	-.730498	2438.499	14.32970	.2386830	241358.4	-.447573	-3.42289
#3	-.636577	2494.718	14.44129	.3852520	248572.9	-.245843	-2.37745
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.30377	1.056043	11848.76	139.5369	7361.538	88.62022	22273.28
SDEV	.96199	.170195	173.34	15.1330	90.358	1.27041	243.99
%RSD	2.977958	16.11627	1.462915	10.84515	1.227432	1.433541	1.095425
#1	31.64906	.9917156	11838.48	148.3728	7365.617	88.34689	22230.33
#2	31.85398	.9273876	11680.80	122.0632	7269.209	87.50871	22053.62
#3	33.40826	1.249025	12027.01	148.1747	7449.787	90.00504	22535.89
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.490815	-7.20195	21.49246	21.41025	9.275222	1.716728	10.02873
SDEV	.215259	.75945	.46781	.56293	.693597	.695223	.47885
%RSD	8.642129	10.54503	2.176616	2.629237	7.477954	40.49699	4.774752
#1	2.611024	-7.33589	21.89895	21.35517	9.268068	.9275355	10.41632
#2	2.619123	-6.38444	20.98113	20.87688	9.972367	2.238669	9.493435
#3	2.242299	-7.88552	21.59732	21.99869	8.585229	1.983980	10.17645
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.58332	14.69771	6.565187	-18.1396	11.62749	16.98801	-.677567
SDEV	1.55710	2.81133	1.665339	2.0038	.61046	1.23542	1.519764
%RSD	7.951162	19.12768	25.36621	11.04660	5.250108	7.272329	224.2970
#1	17.78593	17.92631	4.942570	-19.7685	11.25747	15.58591	1.051381
#2	20.52227	13.37618	8.270189	-15.9020	11.29292	17.91680	-1.80230
#3	20.44175	12.79065	6.482802	-18.7484	12.33209	17.46130	-1.28178
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.6875202	77.60360	4769.955
SDEV	.5152960	1.18385	42.306
%RSD	74.94995	1.525505	.8869242
#1	.3375283	77.36139	4744.866
#2	1.279241	76.55959	4818.800
#3	.4457916	78.88982	4746.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-12 OPERATOR:
RUN TIME: 06/02/10 13:44:42
COMMENT: SDG:1005066 CLIENTID:SDZ-SD05 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.991390	42472.33	64.45094	2.519574	132211.8	-.300077	3.743595
SDEV	.203697	1368.79	1.62691	.429219	4383.8	.506266	1.691687
%RSD	20.54655	3.222781	2.524262	17.03539	3.315723	168.7119	45.18883
#1	-.980955	41364.49	63.10886	2.225226	128789.1	-.720669	3.021608
#2	-1.20010	44002.52	66.26038	3.012072	137152.9	.2618322	5.676484
#3	-.793112	42049.97	63.98358	2.321423	130693.5	-.441395	2.532693
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	145.0318	15.34746	65842.91	11973.09	23533.29	366.7821	44866.15
SDEV	6.3553	.15285	2573.72	418.53	905.63	13.7794	1309.64
%RSD	4.382016	.9959214	3.908874	3.495571	3.848280	3.756834	2.918990
#1	140.9015	15.19200	64142.41	11639.20	22966.35	358.0099	43836.60
#2	152.3501	15.49756	68803.91	12442.61	24577.75	382.6642	46340.18
#3	141.8439	15.35282	64582.41	11837.45	23055.79	359.6723	44421.68
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	37.86541	-2.35727	151.2912	118.0054	30.33584	4.358531	7.722869
SDEV	.91163	3.54382	4.4499	5.3135	2.03099	3.683479	2.329579
%RSD	2.407554	150.3360	2.941308	4.502780	6.695024	84.51193	30.16468
#1	37.53330	-2.23585	148.7317	114.9421	31.51377	8.501838	8.169262
#2	38.89654	1.124287	156.4296	124.1409	31.50309	1.454546	9.796951
#3	37.16640	-5.96023	148.7124	114.9331	27.99066	3.119209	5.202394
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	48.91679	30.22805	30.38642	-9.74907	11.39917	19.58898	-1.65770
SDEV	.56671	.75629	2.73699	5.78329	4.38166	.59271	.87914
%RSD	1.158510	2.501950	9.007293	59.32146	38.43838	3.025746	53.03385
#1	48.63040	30.18091	32.17603	-6.93266	16.20499	19.67547	-.755035
#2	49.56954	31.00681	31.74752	-16.4011	10.36629	18.95778	-2.51126
#3	48.55044	29.49644	27.23571	-5.91348	7.626226	20.13370	-1.70680
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	34.26269	1100.494	4684.177
SDEV	1.41803	35.299	139.017
%RSD	4.138715	3.207559	2.967807
#1	33.04556	1073.736	4786.333
#2	35.81982	1140.501	4525.866
#3	33.92268	1087.245	4740.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 13:51:51
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	99.96347	47386.36	921.7341	1049.183	49023.62	984.2622	1033.193
SDEV	.50707	440.91	7.9655	6.588	225.72	7.6838	17.208
%RSD	.5072570	.9304610	.8641861	.6278906	.4604353	.7806690	1.665526
#1	99.70258	47403.01	930.7786	1048.714	49084.52	985.9376	1035.117
#2	100.5479	46937.36	915.7639	1042.842	48773.69	975.8789	1015.104
#3	99.63996	47818.71	918.6597	1055.993	49212.64	990.9700	1049.358
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	981.2855	996.9203	25419.14	52529.32	50576.18	1020.555	50250.75
SDEV	15.4356	2.5453	335.68	941.66	710.16	15.309	450.17
%RSD	1.573000	.2553206	1.320562	1.792638	1.404144	1.500087	.8958469
#1	980.9099	998.3088	25361.03	52786.92	50498.86	1021.858	50458.98
#2	966.0411	993.9827	25116.31	51485.67	49907.84	1004.636	49734.16
#3	996.9055	998.4696	25780.08	53315.38	51321.84	1035.172	50559.11
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	988.7259	1016.150	1004.670	1080.877	986.8964	1013.060	1014.187
SDEV	6.4560	11.320	19.000	12.726	9.3709	13.573	9.135
%RSD	.6529601	1.114049	1.891194	1.177377	.9495373	1.339792	.9007079
#1	987.0126	1012.426	996.2566	1076.339	981.4313	1014.363	1009.224
#2	983.2994	1007.160	991.3295	1071.042	981.5409	998.8821	1008.608
#3	995.8657	1028.863	1026.425	1095.250	997.7168	1025.934	1024.729
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1031.894	994.1613	983.2665	1028.760	1005.219	1056.199	1007.169
SDEV	6.353	10.0492	10.8970	16.877	12.089	15.237	9.491
%RSD	.6156428	1.010819	1.108245	1.640480	1.202658	1.442592	.9423463
#1	1030.911	996.6217	973.8448	1033.313	1004.899	1055.301	1012.597
#2	1026.090	983.1105	980.7545	1010.074	993.2921	1041.431	996.2101
#3	1038.681	1002.752	995.2001	1042.893	1017.464	1071.864	1012.700
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1024.184	996.5331	4754.000
SDEV	10.737	3.6825	54.528
%RSD	1.048374	.3695274	1.146988
#1	1015.219	998.0449	4733.533
#2	1021.248	992.3354	4815.800
#3	1036.083	999.2191	4712.667
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 13:59:01
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.333942	7.148927	-.042298	-.214243	387.0098	-.189545	-1.45077
SDEV	.226481	4.948347	.036178	.058682	1.1069	.181963	.85100
%RSD	67.82043	69.21804	85.53041	27.39028	.2860220	95.99956	58.65845
#1	-.448735	4.468511	-.000624	-.207592	386.6081	.0083082	-.539578
#2	-.480042	4.119047	-.065639	-.275967	386.1598	-.349717	-1.58779
#3	-.073050	12.85922	-.060632	-.159170	388.2615	-.227228	-2.22496
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.309695	-.825536	19.61518	-1440.12	16.76946	.2725221	-49.3296
SDEV	.957471	.506260	20.87665	1.29	5.17308	.1285111	56.4536
%RSD	73.10641	61.32496	106.4311	.0893910	30.84826	47.15620	114.4416
#1	.7191946	-1.24366	8.377948	-1438.63	13.20915	.1322239	11.83044
#2	.7954811	-.970272	6.764139	-1440.91	14.39582	.3008096	-99.4440
#3	2.414410	-.262671	43.70345	-1440.81	22.70340	.3845328	-60.3751
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2175421	1.569963	-.152310	1.391329	.1545823	.9909477	2.801708
SDEV	.6089081	.641724	.358645	1.262135	1.546106	.5049150	2.175520
%RSD	279.9035	40.87515	235.4707	90.71439	1000.183	50.95274	77.64979
#1	.2561811	2.256095	-.463936	.6633837	-.160197	.8614835	1.659209
#2	-.409765	.9845599	-.232703	.6618855	1.833855	1.547989	1.435456
#3	.8062106	1.469233	.2397091	2.848717	-1.20991	.5633705	5.310459
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.479116	-4.89356	2.672387	-3.35712	3.159241	-.235027	-.766211
SDEV	2.431014	8.59290	3.138974	5.68057	2.380737	.449767	1.166200
%RSD	164.3559	175.5962	117.4596	169.2095	75.35788	191.3680	152.2035
#1	.2992146	.8553687	-.669719	.2923261	1.143135	.2573130	-1.27974
#2	-.136767	-.764427	3.128573	-.461677	2.548840	-.338051	-1.58752
#3	4.274900	-14.7716	5.558308	-9.90201	5.785749	-.624344	.5686245
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.9014645	.4847182	4870.222
SDEV	.5257831	.4623878	33.419
%RSD	58.32543	95.39311	.6861903
#1	1.269819	.0962917	4832.600
#2	.2993351	.3616837	4881.600
#3	1.135239	.9961791	4896.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-13 OPERATOR:
RUN TIME: 06/02/10 14:06:10
COMMENT: SDG:1005066 CLIENTID:SDZ-SD28 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.156535	2566.667	14.13084	1.002445	110365.6	-.460599	-2.89711
SDEV	.072301	40.278	.18516	.251351	2737.4	.132799	.27320
%RSD	46.18803	1.569261	1.310343	25.07377	2.480280	28.83169	9.429977
#1	-.073050	2590.828	14.29882	1.288742	108722.9	-.612942	-2.94445
#2	-.198278	2520.170	13.93230	.9005608	108848.2	-.399565	-3.14354
#3	-.198278	2589.003	14.16139	.8180323	113525.6	-.369291	-2.60333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.73367	-.053606	7246.324	215.2477	5568.055	55.49631	20451.82
SDEV	.80130	.316368	127.188	32.9691	95.282	1.11258	188.91
%RSD	2.447933	590.1686	1.755213	15.31682	1.711223	2.004778	.9237032
#1	32.23152	-.391326	7178.730	251.6863	5576.932	55.11168	20644.45
#2	32.31172	-.005361	7167.204	187.4822	5468.645	54.62709	20266.85
#3	33.65777	.2358675	7393.038	206.5745	5658.587	56.75017	20444.17
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.386681	-4.17862	14.56917	20.05265	8.167790	.8216520	10.75356
SDEV	.838130	.80456	.55780	.76560	.499839	1.218670	1.18320
%RSD	24.74782	19.25417	3.828600	3.817972	6.119637	148.3195	11.00285
#1	2.504042	-4.73388	14.77880	19.22578	8.572219	-.168381	9.393622
#2	3.484239	-4.54604	13.93693	20.19522	7.608971	2.182713	11.54704
#3	4.171763	-3.25595	14.99177	20.73694	8.322181	.4506245	11.32001
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.983440	18.04378	3.234212	-17.8401	10.13590	17.29925	-1.18360
SDEV	1.309253	2.95134	1.084610	.8773	1.74095	1.10669	.61784
%RSD	16.39961	16.35652	33.53552	4.917475	17.17608	6.397347	52.19999
#1	7.585991	21.45164	2.139117	-17.3785	8.421088	16.10669	-1.85176
#2	6.918967	16.32311	3.255497	-17.2900	11.90186	17.49788	-.632974
#3	9.445362	16.35661	4.308023	-18.8518	10.08474	18.29318	-1.06605
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.432091	84.77554	4559.977
SDEV	.981204	1.16265	87.231
%RSD	40.34404	1.371445	1.912964
#1	3.301069	84.68410	4462.933
#2	1.367984	83.66131	4631.866
#3	2.627218	85.98121	4585.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-14 OPERATOR:
RUN TIME: 06/02/10 14:13:18
COMMENT: SDG:1005066 CLIENTID:SDZ-SD08 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.876598	57824.57	82.53124	2.571217	279515.2	.1853752	4.638811
SDEV	.213103	428.00	1.06896	.112166	2179.2	.2709209	.551493
%RSD	24.31021	.7401673	1.295215	4.362388	.7796262	146.1473	11.88866
#1	-.949648	58230.27	83.73438	2.700010	279362.5	.2062578	4.929915
#2	-1.04357	57377.31	82.16846	2.494960	277416.4	-.095383	4.002761
#3	-.636577	57866.13	81.69089	2.518681	281766.8	.4452505	4.983755
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	162.6751	34.37767	68939.92	12987.51	27971.36	503.7627	43180.29
SDEV	.6745	.20532	289.31	78.13	105.37	.7535	144.27
%RSD	.4146210	.5972462	.4196490	.6016092	.3766947	.1495815	.3340994
#1	162.4717	34.42592	69082.85	13077.70	28068.06	504.0485	43256.88
#2	162.1257	34.15253	68606.97	12944.50	27859.07	502.9081	43013.89
#3	163.4279	34.55457	69129.95	12940.34	27986.95	504.3316	43270.12
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	39.16264	-4.85394	173.2194	165.9288	62.06367	1.492932	7.961301
SDEV	.29435	2.37031	1.1283	1.8340	.49290	.816785	2.357439
%RSD	.7516183	48.83274	.6513737	1.105287	.7941890	54.71015	29.61123
#1	39.36031	-4.71750	172.0300	164.1485	62.49195	1.296800	10.32172
#2	38.82435	-2.55480	173.3536	165.8256	62.17416	2.389926	5.606857
#3	39.30325	-7.28953	174.2746	167.8122	61.52490	.7920689	7.955321
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	42.34440	62.59344	61.79537	-13.0124	8.732162	17.63073	-.714897
SDEV	2.70559	1.01941	.43127	1.6005	1.972213	1.46597	1.470418
%RSD	6.389498	1.628628	.6979023	12.29967	22.58562	8.314838	205.6826
#1	45.45703	63.76278	61.85366	-11.8622	7.863878	16.12054	.5274391
#2	40.55590	62.12575	62.19453	-14.8402	10.98954	19.04806	-.333777
#3	41.02027	61.89178	61.33792	-12.3347	7.343067	17.72358	-2.33835
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.75953	1111.539	4763.777
SDEV	1.00343	8.116	27.288
%RSD	9.325943	.7301580	.5728226
#1	9.601262	1106.626	4734.400
#2	11.31273	1107.084	4788.333
#3	11.36460	1120.907	4768.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-15 OPERATOR:
RUN TIME: 06/02/10 14:20:26
COMMENT: SDG:1005066 CLIENTID:SDZ-SD07 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.626141	23003.77	41.35567	1.489827	162771.2	-.579185	-.757826
SDEV	.208453	183.42	.21764	.088308	1789.3	.211853	.105030
%RSD	33.29164	.7973455	.5262600	5.927431	1.099283	36.57775	13.85944
#1	-.855726	23139.79	41.51147	1.388566	164751.7	-.525613	-.684818
#2	-.448735	22795.16	41.10700	1.550849	161271.1	-.399260	-.878198
#3	-.573963	23076.35	41.44853	1.530067	162291.0	-.812681	-.710464
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	78.63092	22.10185	28051.44	5382.833	13758.11	187.8614	33366.23
SDEV	1.38565	.28962	190.76	46.906	115.62	1.3318	147.49
%RSD	1.762214	1.310397	.6800274	.8713999	.8403646	.7089516	.4420194
#1	79.46949	21.76949	28232.33	5345.492	13849.73	188.9493	33404.85
#2	77.03155	22.23586	27852.15	5367.529	13628.20	186.3761	33203.27
#3	79.39173	22.30019	28069.86	5435.480	13796.40	188.2587	33490.56
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.69572	-3.79457	69.95716	77.40109	27.99808	.3027748	9.313770
SDEV	.22101	.44430	1.67376	.93820	.50930	.8607696	1.130706
%RSD	1.408091	11.70875	2.392552	1.212123	1.819052	284.2936	12.14015
#1	15.60539	-3.90681	71.73930	77.52262	27.70610	1.146972	8.836345
#2	15.94759	-3.30492	68.41843	78.27260	27.70198	.3350141	10.60488
#3	15.53419	-4.17199	69.71375	76.40805	28.58617	-.573661	8.500084
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.81248	30.15585	26.91765	-20.3537	10.61293	17.69869	-.087402
SDEV	2.31682	2.30575	.97864	1.2987	.66182	1.43756	.184988
%RSD	13.78038	7.646127	3.635685	6.380646	6.236003	8.122403	211.6517
#1	17.19987	31.38496	25.86617	-19.2377	11.32140	18.77812	.1261542
#2	14.32638	27.49594	27.80191	-20.0444	10.50682	16.06687	-.198159
#3	18.91119	31.58666	27.08488	-21.7792	10.01058	18.25108	-.190202
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	5.274827	671.0196	4623.155
SDEV	.318652	4.8739	23.622
%RSD	6.040988	.7263383	.5109544
#1	4.919214	676.4267	4639.466
#2	5.370822	666.9642	4633.933
#3	5.534447	669.6681	4596.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-16 OPERATOR:
RUN TIME: 06/02/10 14:27:35
COMMENT: SDG:1005066 CLIENTID:SDZ-SD06 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.678320	17861.54	35.73180	1.017083	147461.6	-.454556	-.393665
SDEV	.266263	261.21	.33533	.074837	2769.1	.239383	.588649
%RSD	39.25339	1.462404	.9384681	7.358028	1.877848	52.66302	149.5306
#1	-.667884	17599.96	36.11221	1.079872	144413.7	-.663589	-.846493
#2	-.949648	18122.38	35.60418	.9342708	149822.6	-.193409	.2717459
#3	-.417428	17862.28	35.47902	1.037107	148148.6	-.506668	-.606247
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	72.24683	7.349414	24957.45	3444.992	10713.31	174.2016	20260.24
SDEV	1.56769	.112956	380.83	40.905	141.65	2.5850	147.63
%RSD	2.169909	1.536934	1.525922	1.187388	1.322187	1.483917	.7286900
#1	70.79661	7.231480	24566.77	3410.421	10563.90	171.5312	20111.09
#2	73.91018	7.456627	25327.60	3490.151	10845.66	176.6918	20406.31
#3	72.03368	7.360136	24977.98	3434.405	10730.37	174.3818	20263.31
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.76977	-5.77856	62.40151	61.90412	21.22011	.6886858	8.642302
SDEV	1.17596	1.77446	1.23949	1.55629	.34031	1.933804	1.943974
%RSD	8.540170	30.70758	1.986311	2.514035	1.603692	280.7962	22.49371
#1	12.47679	-4.29540	60.97138	60.13280	21.46547	1.122815	6.397615
#2	14.77547	-7.74443	63.06797	62.52731	21.36325	-1.42528	9.772870
#3	14.05706	-5.29585	63.16519	63.05223	20.83162	2.368526	9.756424
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.01715	25.34867	19.15581	-15.5260	8.781379	17.36546	-1.17257
SDEV	1.56222	2.07177	.99590	3.1534	1.811308	.64790	1.48807
%RSD	15.59542	8.173106	5.198960	20.31017	20.62670	3.730945	126.9059
#1	8.387581	27.59750	18.40095	-12.9597	8.151054	18.06218	-2.82359
#2	11.50193	23.51762	20.28455	-19.0462	7.369446	17.25311	-.759304
#3	10.16194	24.93090	18.78194	-14.5721	10.82364	16.78109	.0651745
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	8.497398	677.9233	4862.955
SDEV	.254890	4.5947	25.962
%RSD	2.999629	.6777551	.5338674
#1	8.204042	672.6251	4886.533
#2	8.623445	680.8111	4835.133
#3	8.664709	680.3339	4867.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-17 OPERATOR:
RUN TIME: 06/02/10 14:34:43
COMMENT: SDG:1005066 CLIENTID:SDZ-SD09 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.855726	34550.61	53.43402	1.240484	83866.00	-.444550	-.071151
SDEV	.281764	1121.36	2.32769	.278916	2564.94	.046248	.599332
%RSD	32.92683	3.245560	4.356201	22.48444	3.058379	10.40344	842.3328
#1	-1.13749	35538.45	55.09011	1.434371	86344.55	-.399003	.4686656
#2	-.573963	33331.72	50.77262	.9208297	81222.62	-.491469	-.716089
#3	-.855726	34781.64	54.43933	1.366250	84030.84	-.443177	.0339689
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	112.2229	17.84551	44930.09	8526.302	18476.31	279.6906	51000.88
SDEV	3.0892	.41064	1220.03	259.913	535.22	6.6598	1436.99
%RSD	2.752757	2.301081	2.715387	3.048372	2.896776	2.381143	2.817578
#1	114.1271	17.94201	46076.15	8684.893	18977.98	285.2887	52037.06
#2	108.6586	17.39522	43647.57	8226.345	17912.90	272.3254	49360.43
#3	113.8831	18.19931	45066.54	8667.669	18538.04	281.4576	51605.14
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	26.52198	-6.58906	119.8561	117.8651	35.82885	3.249827	9.446802
SDEV	1.02208	.67657	3.2569	2.3394	2.43278	.808084	3.164041
%RSD	3.853711	10.26804	2.717329	1.984803	6.790009	24.86543	33.49325
#1	27.36731	-6.67878	123.4025	119.8388	38.63078	2.803568	8.080371
#2	25.38607	-5.87211	116.9990	115.2810	34.60204	2.763282	7.195601
#3	26.81255	-7.21630	119.1668	118.4756	34.25374	4.182632	13.06443
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	27.52816	36.95010	35.26574	-14.7895	12.25354	17.45547	-2.70241
SDEV	1.16593	2.74546	2.30102	2.4576	.33809	.33013	.89050
%RSD	4.235411	7.430171	6.524804	16.61732	2.759159	1.891262	32.95205
#1	26.34617	40.11067	37.88856	-16.7784	12.57743	17.47569	-3.53400
#2	28.67734	35.15620	34.32214	-15.5480	11.90284	17.77503	-1.76285
#3	27.56096	35.58344	33.58650	-12.0420	12.28035	17.11570	-2.81036
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	26.70771	843.3438	4991.889
SDEV	2.17570	26.3784	129.895
%RSD	8.146335	3.127830	2.602112
#1	29.14739	864.1373	4908.266
#2	24.96862	813.6716	5141.533
#3	26.00710	852.2223	4925.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-18 OPERATOR:
RUN TIME: 06/02/10 14:41:52
COMMENT: SDG:1005066 CLIENTID:SDZ-SD09D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.563527	40188.76	56.65064	2.324818	94370.12	-.371926	1.510506
SDEV	.422742	947.42	1.31585	.290839	1863.44	.171804	.318533
%RSD	75.01715	2.357432	2.322751	12.51019	1.974604	46.19310	21.08782
#1	-.980955	41273.74	58.16936	2.552316	92349.81	-.398022	1.210472
#2	-.135664	39524.94	55.85176	2.425010	94739.06	-.529189	1.476273
#3	-.573963	39767.60	55.93078	1.997128	96021.49	-.188567	1.844772
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	123.2817	19.29288	50482.87	10054.47	20397.07	314.3698	52155.80
SDEV	1.6742	.14294	743.71	392.97	58.28	2.5915	1119.23
%RSD	1.358055	.7408888	1.473190	3.908366	.2857361	.8243499	2.145941
#1	121.7739	19.13206	49676.31	10502.04	20348.79	312.0458	53401.81
#2	122.9877	19.40545	50630.82	9895.344	20380.60	313.8992	51829.92
#3	125.0834	19.34113	51141.48	9766.025	20461.81	317.1643	51235.67
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	29.17843	-4.62711	129.1481	115.1850	37.39315	3.498104	7.625807
SDEV	2.01720	2.93028	.2348	4.6533	1.76632	1.356220	1.787546
%RSD	6.913319	63.32856	.1817817	4.039865	4.723649	38.77014	23.44075
#1	26.86556	-1.32991	129.3486	109.8880	38.32326	4.928180	6.777224
#2	30.09592	-5.61775	128.8898	117.0521	35.35613	2.230351	6.420605
#3	30.57379	-6.93367	129.2057	118.6147	38.50005	3.335781	9.679593
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.58291	45.02296	33.58054	-8.76711	9.618944	20.30123	1.985188
SDEV	1.83019	2.31772	3.72984	2.67043	2.048958	2.57997	1.199873
%RSD	6.403106	5.147868	11.10716	30.45967	21.30128	12.70845	60.44128
#1	27.21568	42.91363	36.02819	-6.68492	10.72335	18.40656	1.158027
#2	27.87096	47.50412	29.28776	-7.83854	7.254713	23.23953	3.361342
#3	30.66210	44.65113	35.42566	-11.7779	10.87877	19.25761	1.436193
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	24.45379	907.5516	4704.400
SDEV	2.31994	10.0529	154.641
%RSD	9.487027	1.107690	3.287156
#1	25.41828	917.9293	4528.066
#2	26.13589	906.8672	4768.200
#3	21.80719	897.8585	4816.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-19 OPERATOR:
RUN TIME: 06/02/10 14:49:00
COMMENT: SDG:1005066 CLIENTID:SDZ-SD03 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.417428	30934.83	45.49985	1.489293	H701859.5	1.005547	4.527847
SDEV	.250457	58.88	.23169	.115588	14679.2	.143439	.488563
%RSD	60.00000	.1903378	.5092190	7.761243	2.091472	14.26477	10.79018
#1	-.166971	30872.06	45.41494	1.574287	686821.5	1.092443	4.082799
#2	-.667884	30943.60	45.32258	1.357675	H702605.5	.8399859	4.450133
#3	-.417428	30988.84	45.76202	1.535917	H716151.4	1.084210	5.050609
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	85.23519	15.57797	39369.55	7130.917	17969.29	279.3770	39290.06
SDEV	1.30102	.34902	463.71	27.833	138.43	4.0078	128.35
%RSD	1.526390	2.240459	1.177834	.3903159	.7703939	1.434545	.3266667
#1	83.86117	15.80312	38875.58	7160.353	17822.61	275.4441	39164.23
#2	86.44823	15.75487	39437.59	7127.370	17987.62	283.4557	39285.16
#3	85.39619	15.17592	39795.48	7105.027	18097.65	279.2312	39420.79
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	20.88918	-6.79982	87.47428	125.5925	32.10460	1.748507	12.17307
SDEV	.52278	2.79348	.27178	2.9489	1.65412	2.789920	.58142
%RSD	2.502615	41.08170	.3106957	2.347965	5.152290	159.5602	4.776240
#1	20.39491	-5.74259	87.24040	122.6070	30.39617	-1.12714	12.83786
#2	20.83622	-9.96761	87.77244	125.6673	33.69846	4.443967	11.92184
#3	21.43642	-4.68926	87.41001	128.5033	32.21917	1.928691	11.75951
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.95053	36.96779	29.67303	-21.8950	13.54989	17.14661	.0595673
SDEV	2.59939	1.36246	1.80526	4.9053	2.02284	.84417	1.308696
%RSD	11.84203	3.685535	6.083828	22.40391	14.92883	4.923238	2197.004
#1	24.26809	35.49265	27.84814	-25.8628	11.21954	16.26897	.1368346
#2	22.44356	38.17893	31.45799	-16.4104	14.85291	17.21809	1.327918
#3	19.13993	37.23180	29.71296	-23.4116	14.57720	17.95276	-1.28605
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	8.035747	679.6140	4608.911
SDEV	.411999	3.9649	30.165
%RSD	5.127082	.5834042	.6545000
#1	7.877637	675.0358	4613.800
#2	8.503382	681.9269	4636.333
#3	7.726222	681.8793	4576.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005066-20 OPERATOR:
RUN TIME: 06/02/10 14:56:09
COMMENT: SDG:1005066 CLIENTID:SDZ-SD02 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.657448	39161.02	49.22099	1.620274	5836.075	-.590785	-.551790
SDEV	.157575	87.54	.55304	.166901	60.761	.350248	.365861
%RSD	23.96773	.2235449	1.123593	10.30080	1.041119	59.28519	66.30437
#1	-.824419	39072.83	48.58961	1.510786	5851.246	-.651414	-.290461
#2	-.511349	39162.32	49.45379	1.537667	5887.812	-.214181	-.394993
#3	-.636577	39247.90	49.61958	1.812369	5769.167	-.906762	-.969917
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	94.85516	22.13401	47079.58	6971.772	11764.23	225.8781	21560.79
SDEV	.62896	.13677	232.97	114.367	18.13	1.4895	144.38
%RSD	.6630707	.6179390	.4948355	1.640425	.1540887	.6594352	.6696607
#1	95.38914	22.26803	47071.20	6888.958	11773.74	225.4431	21394.69
#2	95.01446	22.13937	47316.62	6924.094	11775.62	227.5366	21656.26
#3	94.16187	21.99463	46850.91	7102.264	11743.33	224.6544	21631.43
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	23.91405	-7.74869	86.07084	129.9319	54.52208	4.637982	11.01437
SDEV	1.06932	2.94331	.74161	1.3150	1.59451	1.185157	1.84944
%RSD	4.471497	37.98458	.8616324	1.012080	2.924521	25.55330	16.79114
#1	23.53325	L-10.5503	86.85353	130.8438	52.80777	4.901004	11.23997
#2	25.12164	-4.68166	85.37860	130.5274	55.96089	3.343409	12.74065
#3	23.08725	-8.01412	85.98038	128.4245	54.79758	5.669533	9.062476
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.93490	55.10027	54.22995	-12.4802	13.18170	17.44314	-.819772
SDEV	2.48029	1.06458	2.90764	4.5302	1.15663	2.04435	1.160199
%RSD	11.30751	1.932077	5.361694	36.29897	8.774499	11.72009	141.5269
#1	19.32043	56.09269	51.16433	-9.01751	11.84732	15.09547	-2.01067
#2	24.25468	53.97584	56.94846	-17.6071	13.80043	18.83081	-.755714
#3	22.22958	55.23228	54.57705	-10.8159	13.89736	18.40313	.3070703
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	7.744632	713.3222	4784.933
SDEV	1.003100	2.2441	35.674
%RSD	12.95220	.3145978	.7455537
#1	8.646856	715.0909	4818.400
#2	6.664470	714.0779	4788.999
#3	7.922570	710.7978	4747.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-BLK1 OPERATOR:
RUN TIME: 06/02/10 15:04:09
COMMENT: SDG:1005129 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1043569	11.56384	.1703268	.0847110	446.8289	-.734824	-3.37048
SDEV	.1265260	15.07158	.0898365	.2762444	22.4307	.106218	.25624
%RSD	121.2435	130.3337	52.74359	326.1022	5.019966	14.45487	7.602349
#1	.1774067	27.77035	.2620952	.3526479	468.9496	-.616151	-3.07488
#2	.1774067	8.952770	.1663295	.1006368	447.4364	-.767333	-3.50723
#3	-.041743	-2.03161	.0825557	-.199152	424.1006	-.820988	-3.52934
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.180621	1.291910	9.771695	-1423.01	15.62322	.6382651	279.0904
SDEV	.274966	2.499493	6.595350	4.69	5.05023	.1947270	38.5814
%RSD	23.28994	193.4727	67.49443	.3293852	32.32516	30.50880	13.82397
#1	1.467509	-.053606	17.32656	-1419.91	21.42363	.8553471	319.3702
#2	.9193734	-.246588	6.825922	-1420.72	12.20220	.5804705	275.4328
#3	1.154981	4.175925	5.162603	-1428.40	13.24382	.4789779	242.4680
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3272713	-.240616	.2850505	2.446579	2.483839	1.754082	3.471265
SDEV	.6207632	1.256944	.1282631	.608792	1.034630	.661846	2.579435
%RSD	189.6785	522.3859	44.99664	24.88339	41.65448	37.73178	74.30821
#1	.5306458	-1.21787	.1372015	2.957655	2.485631	1.502969	6.414937
#2	-.369669	-.681312	.3665213	2.609045	H3.517572	2.504736	2.392600
#3	.8208371	1.177334	.3514286	1.773036	1.448314	1.254541	1.606259
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.85287	4.359891	1.544670	-6.15027	5.697786	6.431526	-.335384
SDEV	.50269	.867833	1.289924	2.92938	.871749	3.538154	1.043681
%RSD	17.62051	19.90493	83.50803	47.63009	15.29979	55.01268	311.1896
#1	-2.88846	5.084512	1.185554	-8.90960	6.698866	10.13092	-.316290
#2	-3.33682	4.597020	2.976098	-3.07625	5.288488	6.083281	-1.38848
#3	-2.33333	3.398140	.4723576	-6.46497	5.106002	3.080370	.6986186
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.096435	-.069373	4741.222
SDEV	.117244	.092122	75.465
%RSD	121.5787	132.7927	1.591676
#1	-.085280	-.082223	4676.400
#2	.0148334	-.154395	4723.200
#3	-.218858	.0284995	4824.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-BS1 OPERATOR:
RUN TIME: 06/02/10 15:11:17
COMMENT: SDG:1005129 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	781.6957	68370.38	1316.572	1339.895	39322.40	2070.715	646.2380
SDEV	4.8756	1001.35	4.534	15.535	495.05	28.067	7.2073
%RSD	.6237175	1.464591	.3443960	1.159411	1.258956	1.355429	1.115272
#1	778.0642	69196.14	1321.695	1357.825	39873.43	2097.553	654.3155
#2	787.2371	67256.59	1314.944	1330.470	39178.63	2073.029	643.9344
#3	779.7860	68658.43	1313.076	1331.389	38915.15	2041.563	640.4641
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1110.000	108000.0	1840.000	1690.000	52200.00	2770.000	811.0000
LOW	490.0000	43900.00	1280.000	1170.000	34200.00	1880.000	561.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	557.0120	1349.199	117945.3	24337.72	19189.77	2815.336	3961.962
SDEV	4.7092	6.152	1254.5	335.59	249.38	14.446	74.394
%RSD	.8454432	.4560093	1.063668	1.378903	1.299550	.5131234	1.877699
#1	561.7979	1343.394	119216.6	24428.86	19463.88	2829.389	4047.773
#2	556.8545	1348.556	117911.2	23965.97	19129.12	2800.526	3915.618
#3	552.3834	1355.648	116708.2	24618.33	18976.30	2816.093	3922.496
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	738.0000	1540.000	214000.0	30600.00	27300.00	3650.000	6580.000
LOW	477.0000	1080.000	74200.00	17000.00	17100.00	2430.000	2540.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	450.1299	1420.950	637.6793	1050.239	669.0637	689.9962	455.7156
SDEV	3.5209	12.549	9.9140	17.934	8.5105	7.2485	3.6419
%RSD	.7822034	.8831093	1.554696	1.707656	1.272000	1.050507	.7991670
#1	452.8639	1434.059	648.9875	1064.026	678.1382	697.6232	459.8219
#2	451.3688	1409.050	630.4825	1056.727	667.7926	683.1974	454.4482
#3	446.1569	1419.741	633.5678	1029.963	661.2603	689.1680	452.8766
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	1970.000	930.0000	1410.000	918.0000	1030.000	1730.000
LOW	404.0000	1190.000	517.0000	905.0000	619.0000	626.0000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	723.5257	665.4613	670.8594	685.7849	692.0961	1625.227	-1.12591
SDEV	5.5702	17.7428	3.9151	11.0190	5.9978	13.600	2.82155
%RSD	.7698666	2.666239	.5835878	1.606776	.8666132	.8368258	250.6010
#1	729.1233	684.1263	675.1457	698.4716	697.1970	1640.685	-1.67158
#2	717.9833	663.4445	669.9605	678.6028	685.4887	1619.899	1.928619
#3	723.4704	648.8130	667.4719	680.2802	693.6027	1615.098	-3.63478
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	NOCHECK
HIGH	973.0000					2280.000	
LOW	645.0000					1220.000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	552.4993	2609.842	5148.333
SDEV	2.7660	16.995	57.044
%RSD	.5006300	.6511770	1.108005
#1	555.3281	2627.354	5096.866
#2	552.3689	2593.416	5209.667
#3	549.8008	2608.755	5138.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	705.0000	4510.000	
LOW	463.0000	1110.000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 15:18:26
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	99.39995	47307.47	936.4969	1038.575	48010.47	975.5024	1022.937
SDEV	2.63005	750.94	22.1135	7.859	580.79	4.5507	8.155
%RSD	2.645923	1.587364	2.361295	.7567123	1.209713	.4664983	.7971742
#1	97.66762	47564.56	954.1358	1030.109	47340.82	972.0560	1018.877
#2	98.10592	47896.11	943.6667	1045.638	48313.86	980.6608	1032.324
#3	102.4263	46461.75	911.6882	1039.980	48376.74	973.7903	1017.608
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	964.9228	1003.085	25144.12	53417.13	50277.36	1010.371	50409.26
SDEV	21.8692	10.660	365.47	1823.62	772.28	16.841	947.20
%RSD	2.266415	1.062695	1.453508	3.413924	1.536035	1.666817	1.879021
#1	942.4335	993.7416	24923.55	54584.01	50377.75	993.3818	50725.23
#2	986.1140	1000.818	25565.98	54351.71	50994.54	1027.060	51158.09
#3	966.2210	1014.696	24942.81	51315.67	49459.80	1010.673	49344.46
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	984.4536	1022.127	984.3274	1058.774	980.9557	1022.938	1020.563
SDEV	3.7241	5.353	8.1463	11.857	13.0721	18.642	8.339
%RSD	.3782907	.5237530	.8276051	1.119891	1.332593	1.822359	.8171048
#1	981.2258	1025.420	977.2145	1045.090	974.3655	1031.810	1017.502
#2	988.5282	1025.012	993.2147	1065.224	996.0113	1035.486	1030.000
#3	983.6069	1015.950	982.5532	1066.008	972.4905	1001.517	1014.187
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1041.167	981.2017	980.8299	1044.036	1012.402	1049.979	1016.697
SDEV	8.826	14.5335	13.5486	27.311	16.345	11.580	17.985
%RSD	.8477061	1.481190	1.381344	2.615892	1.614433	1.102917	1.768945
#1	1045.435	981.5551	970.7721	1067.347	1014.065	1051.487	1029.975
#2	1047.048	995.5552	996.2364	1050.774	1027.851	1060.732	1023.886
#3	1031.018	966.4947	975.4811	1013.987	995.2893	1037.719	996.2292
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1027.418	989.1396	4732.444
SDEV	5.646	5.7585	168.830
%RSD	.5495645	.5821745	3.567500
#1	1027.250	982.6667	4618.999
#2	1033.147	991.0580	4651.866
#3	1021.858	993.6940	4926.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 15:25:35
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.187842	-.102744	.0440572	-.276903	390.6731	-.171098	-2.54705
SDEV	.078788	2.601485	.0483937	.086977	.2153	.235202	.10943
%RSD	41.94353	2532.008	109.8430	31.41055	.0551125	137.4666	4.296417
#1	-.104357	2.885703	.0838127	-.178329	390.5579	-.353052	-2.52608
#2	-.260892	-1.33313	-.009829	-.309537	390.9215	-.254734	-2.66544
#3	-.198278	-1.86081	.0581879	-.342843	390.5399	.0944923	-2.44961
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.147561	-1.04532	6.846028	-1429.90	19.56473	.3248789	10.78272
SDEV	.255060	.06499	4.404439	2.16	.56168	.0988523	6.57113
%RSD	172.8509	6.217616	64.33569	.1508371	2.870870	30.42742	60.94129
#1	.1074742	-1.11501	10.17493	-1427.53	20.08305	.3821988	17.33476
#2	-.402646	-1.03460	1.851728	-1431.76	19.64320	.3817033	10.82073
#3	-.147511	-.986355	8.511423	-1430.40	18.96795	.2107345	4.192666
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.003255	6.118177	.1071846	1.124456	.3956385	2.352782	-1.71071
SDEV	.202005	1.422299	.2295919	.001658	.6159469	.966620	.41114
%RSD	6205.493	23.24711	214.2023	.1474294	155.6843	41.08414	24.03315
#1	.1984915	4.501780	.3376805	1.125954	.9794633	3.435437	-1.23666
#2	-.205518	7.178129	.1053658	1.124741	.4555101	1.576404	-1.96981
#3	-.002739	6.674622	-.121492	1.122675	-.248058	2.046505	-1.92568
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.73693	1.243277	-.029997	2.560854	2.246450	-.453995	-.360337
SDEV	1.02901	1.205859	1.209373	.928764	1.216211	2.112090	2.138231
%RSD	59.24289	96.99036	4031.626	36.26773	54.13924	465.2234	593.3972
#1	-1.09191	.2136706	1.359329	3.003772	3.648489	-1.72309	1.479586
#2	-1.19525	2.569887	-.602547	1.493541	1.615320	1.984152	-2.70615
#3	-2.92363	.9462747	-.846774	3.185249	1.475542	-1.62305	.1455501
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.747682	.1397695	4929.044
SDEV	1.102448	.1112730	12.574
%RSD	63.08059	79.61182	.2551088
#1	2.901984	.2506154	4919.400
#2	.7056854	.0280742	4924.466
#3	1.635376	.1406188	4943.266
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-05RE1 OPERATOR:
RUN TIME: 06/02/10 15:32:44
COMMENT: SDG:1005129 CLIENTID:SS53-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.093921	14186.37	28.33144	.1290687	826.1967	-.971552	-5.25740
SDEV	.172426	73.85	.31785	.0975421	2.2526	.163203	.34287
%RSD	183.5857	.5206047	1.121885	75.57381	.2726462	16.79820	6.521706
#1	-.260892	14104.43	28.18594	.1188602	828.5206	-1.15907	-4.86866
#2	.0834855	14247.82	28.11239	.0370323	826.0466	-.861536	-5.38681
#3	-.104357	14206.84	28.69599	.2313136	824.0230	-.894054	-5.51674
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.59858	4.358186	7438.048	-939.658	491.1613	25.80094	473.6678
SDEV	.49611	.156196	27.183	4.640	1.1069	.22794	55.9404
%RSD	3.648268	3.583970	.3654534	.4938185	.2253629	.8834513	11.81004
#1	13.03451	4.224170	7439.735	-943.576	491.6820	25.55720	482.3345
#2	13.96717	4.529726	7410.061	-940.864	489.8901	25.83676	413.8999
#3	13.79407	4.320662	7464.348	-934.534	491.9118	26.00884	524.7690
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.405473	-2.51701	17.80184	22.06472	25.80513	.7936884	10.55294
SDEV	.360892	.69615	.33986	.27253	.61115	1.119671	1.16153
%RSD	8.191900	27.65783	1.909146	1.235142	2.368315	141.0719	11.00668
#1	4.772830	-1.98071	17.51972	22.32637	25.58485	.4332542	11.42363
#2	4.392177	-2.26660	18.17915	21.78248	26.49588	2.049186	11.00110
#3	4.051413	-3.30373	17.70665	22.08530	25.33467	-.101375	9.234096
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.276839	30.75252	23.33227	-19.1297	10.73787	15.65502	-.999794
SDEV	1.224370	1.36182	.28022	4.2594	2.22220	1.43728	.478523
%RSD	95.89071	4.428317	1.200997	22.26616	20.69495	9.180968	47.86215
#1	.7213154	29.98704	23.38417	-24.0390	12.64848	14.06465	-.963400
#2	.4287113	32.32484	23.58291	-16.4170	11.26591	16.86109	-.540507
#3	2.680490	29.94569	23.02973	-16.9329	8.299212	16.03933	-1.49547
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.294954	280.1945	4731.066
SDEV	.315327	1.9474	15.557
%RSD	13.74002	.6950220	.3288216
#1	2.294646	279.9648	4732.600
#2	2.610436	282.2466	4745.800
#3	1.979782	278.3721	4714.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-DUP1 OPERATOR:
RUN TIME: 06/02/10 15:39:52
COMMENT: SDG:1005129 CLIENTID:SS53-0-1D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.177407	13351.21	37.80114	-.003248	754.8266	-1.14745	-5.57031
SDEV	.130342	97.16	.60395	.109096	7.0917	.16901	.30451
%RSD	73.47057	.7277442	1.597711	3358.490	.9395204	14.72891	5.466578
#1	-.073050	13239.02	37.30820	.0697955	746.7974	-1.07376	-5.90848
#2	-.135664	13406.08	38.47483	.0491138	757.4475	-1.34079	-5.48461
#3	-.323506	13408.52	37.62039	-.128654	760.2349	-1.02780	-5.31783
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.99635	5.869882	7097.395	-932.194	471.1930	21.47738	450.7491
SDEV	.58625	.133908	136.072	.961	8.5559	.33844	68.2271
%RSD	4.510847	2.281277	1.917214	.1030743	1.815790	1.575797	15.13637
#1	12.31983	5.977095	6940.438	-933.039	461.3698	21.12203	504.0415
#2	13.35529	5.912767	7169.613	-931.148	477.0164	21.51420	474.3510
#3	13.31392	5.719785	7182.132	-932.394	475.1928	21.79590	373.8548
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.411392	-3.83963	17.17402	23.19799	28.80040	3.325956	8.030456
SDEV	.665610	2.25552	.37374	.41351	1.13242	2.397293	.157399
%RSD	19.51139	58.74321	2.176205	1.782534	3.931975	72.07831	1.960025
#1	4.103790	-3.92159	16.80726	22.96873	29.28579	1.938278	8.125878
#2	3.354116	-6.05305	17.55438	22.94988	29.60922	6.094109	8.116706
#3	2.776272	-1.54424	17.16041	23.67534	27.50619	1.945482	7.848785
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.231089	34.62087	25.89172	-13.1869	11.56749	15.03260	-1.17458
SDEV	1.004999	.77931	1.31747	.9821	3.29023	.84902	.63494
%RSD	81.63496	2.250972	5.088381	7.447381	28.44378	5.647865	54.05700
#1	.3620364	35.10427	26.37811	-12.8275	9.307621	15.89532	-1.59142
#2	.9995944	35.03648	26.89683	-12.4351	15.34230	14.19798	-.443822
#3	2.331635	33.72185	24.40020	-14.2980	10.05255	15.00450	-1.48849
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.133950	271.9294	4820.022
SDEV	.449918	4.0288	14.502
%RSD	39.67703	1.481550	.3008606
#1	.6303061	267.6965	4834.400
#2	1.496149	275.7171	4805.400
#3	1.275394	272.3745	4820.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-MS1 OPERATOR:
RUN TIME: 06/02/10 15:47:00
COMMENT: SDG:1005129 CLIENTID:SS53-0-1S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	47.80589	20694.03	1881.707	50.80429	827.8752	47.45578	506.4593
SDEV	.53984	731.39	36.570	1.78742	17.2701	1.72806	17.7679
%RSD	1.129228	3.534293	1.943473	3.518251	2.086072	3.641404	3.508255
#1	47.32585	21537.57	1923.640	52.80465	846.9072	48.78560	524.9540
#2	48.39029	20236.76	1865.055	50.24435	823.5160	48.07923	504.9034
#3	47.70154	20307.75	1856.426	49.36387	813.2023	45.50251	489.5205
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	217.3187	259.6846	9007.290	-466.008	719.8764	534.1295	445.2300
SDEV	10.8809	.9062	324.490	19.233	26.1045	22.5263	81.3269
%RSD	5.006887	.3489451	3.602531	4.127238	3.626247	4.217388	18.26626
#1	229.1933	260.7299	9353.650	-443.803	748.5438	558.2145	520.6973
#2	214.9365	259.2022	8957.885	-477.493	713.6101	530.5938	455.8966
#3	207.8262	259.1218	8710.336	-476.726	697.4754	513.5801	359.0962
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	486.3241	41.71009	525.6468	502.7825	50.27819	9.206698	399.6204
SDEV	14.2058	.57518	21.2172	15.9220	.66676	2.316947	6.5479
%RSD	2.921051	1.378992	4.036408	3.166773	1.326142	25.16588	1.638536
#1	499.6945	42.26996	550.1458	517.7420	50.90554	11.54338	406.5017
#2	487.8687	41.73957	513.5411	504.5585	50.35101	9.166700	398.8929
#3	471.4092	41.12074	513.2535	486.0470	49.57800	6.910008	393.4666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	38.59581	52.52254	49.15525	-7.36843	17.47936	992.7989	941.7656
SDEV	1.47352	1.95524	.69643	1.31927	2.86688	22.7128	20.8002
%RSD	3.817817	3.722675	1.416796	17.90431	16.40153	2.287759	2.208636
#1	39.17661	54.76859	48.97441	-5.86166	20.23032	1017.899	964.5375
#2	39.69042	51.20097	49.92426	-7.92765	17.69861	986.8335	936.9924
#3	36.92039	51.59806	48.56707	-8.31598	14.50914	973.6642	923.7669
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	990.9817	1265.790	4880.066
SDEV	20.9462	42.620	101.079
%RSD	2.113684	3.367036	2.071257
#1	1010.458	1314.939	4763.466
#2	993.6630	1243.386	4933.866
#3	968.8239	1239.045	4942.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-MSD1 OPERATOR:
RUN TIME: 06/02/10 15:54:08
COMMENT: SDG:1005129 CLIENTID:SS53-0-1SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	46.54318	19268.81	1874.647	49.21031	823.8663	45.40655	482.0170
SDEV	.69724	336.14	41.693	.15056	12.6550	.59879	8.6506
%RSD	1.498048	1.744455	2.224069	.3059575	1.536047	1.318737	1.794666
#1	45.91704	19647.64	1918.633	49.09510	809.2881	44.72104	472.1909
#2	47.29454	19006.25	1835.705	49.38067	830.2860	45.67119	488.4853
#3	46.41795	19152.52	1869.602	49.15515	832.0247	45.82744	485.3747
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	203.6841	254.1900	8129.830	-468.005	666.9714	510.1953	464.7932
SDEV	4.2557	2.1079	131.103	39.547	2.4478	5.1392	92.2842
%RSD	2.089378	.8292679	1.612622	8.450211	.3670062	1.007292	19.85489
#1	198.9682	251.8206	7978.573	-423.060	664.4909	505.0811	549.9899
#2	207.2384	255.8572	8210.850	-483.477	669.3852	515.3590	477.6251
#3	204.8459	254.8922	8200.067	-497.476	667.0382	510.1458	366.7646
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	468.4491	44.12454	508.2424	472.9139	48.02278	10.27426	390.7729
SDEV	5.3427	1.38221	2.8498	17.2989	.86881	3.50369	2.0022
%RSD	1.140505	3.132531	.5607096	3.657939	1.809168	34.10157	.5123708
#1	462.2850	45.00306	506.3162	452.9444	47.12485	7.706324	392.8162
#2	471.3133	44.83926	511.5160	483.3084	48.08430	8.850823	388.8145
#3	471.7490	42.53130	506.8950	482.4887	48.85921	14.26565	390.6880
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	34.32833	54.13828	44.96588	-6.74098	18.76662	957.7502	930.1329
SDEV	2.99200	7.04816	4.66518	3.42416	6.15642	7.9210	15.7960
%RSD	8.715832	13.01882	10.37494	50.79616	32.80518	.8270457	1.698254
#1	32.75998	58.26628	41.55863	-2.92395	13.01089	948.7366	948.2598
#2	32.44656	58.14851	43.05608	-9.54256	18.03127	963.6019	922.8231
#3	37.77845	46.00005	50.28294	-7.75643	25.25769	960.9121	919.3157
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	962.0621	1229.656	4808.977
SDEV	3.4463	16.111	137.542
%RSD	.3582200	1.310206	2.860110
#1	962.4044	1232.268	4654.200
#2	958.4575	1212.398	4917.200
#3	965.3246	1244.301	4855.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005129-05RE1 OPERATOR:
RUN TIME: 06/02/10 16:01:16
COMMENT: SDG:1005129 CLIENTID:SS53-0-1L 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.323506	2851.117	5.433267	-.711043	470.1484	-.760942	-3.59136
SDEV	.174310	121.031	.205718	.244545	3.8554	.422490	1.22278
%RSD	53.88160	4.245022	3.786274	34.39252	.8200425	55.52191	34.04767
#1	-.480042	2828.748	5.385849	-.595902	470.3257	-1.03386	-3.69543
#2	-.354813	2981.772	5.658554	-.545321	473.9121	-.274291	-2.31988
#3	-.135664	2742.832	5.255397	-.991905	466.2073	-.974679	-4.75878
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.198610	-.053606	1557.249	L-1346.39	105.6419	5.419612	94.13126
SDEV	.359850	.073696	64.886	3.34	6.7778	.260604	32.12869
%RSD	11.25019	137.4775	4.166692	.2477596	6.415839	4.808535	34.13180
#1	3.613230	.0268031	1539.407	L-1344.33	108.8185	5.463510	117.7971
#2	2.967645	-.117933	1629.190	L-1344.60	110.2480	5.655479	57.55568
#3	3.014956	-.069688	1503.152	L-1350.24	97.85918	5.139847	107.0410
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2474387	1.092845	3.632391	5.604418	6.258308	2.434298	1.590713
SDEV	.3125823	1.343833	.084422	.083760	.511521	1.625500	1.762803
%RSD	126.3272	122.9664	2.324145	1.494536	8.173477	66.77490	110.8184
#1	.4903453	-.457297	3.585267	5.700867	6.694525	.6540659	2.009570
#2	.3571887	1.928589	3.729856	5.562437	6.385078	2.809312	3.106363
#3	-.105218	1.807244	3.582051	5.549951	5.695322	3.839516	-.343793
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.856896	8.015571	5.378478	-1.12494	4.208826	.2578305	-.853596
SDEV	.552903	1.385458	1.310846	3.17871	1.421785	.9216192	1.485568
%RSD	64.52395	17.28459	24.37206	282.5677	33.78102	357.4515	174.0364
#1	-.552232	8.141315	5.969800	-4.66682	3.308106	-.188738	.7315120
#2	-1.49512	6.571526	6.289496	1.479961	3.470490	1.317664	-2.21403
#3	-.523340	9.333870	3.876139	-.187951	5.847883	-.355434	-1.07827
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.649401	56.35693	4999.800
SDEV	.539065	2.08361	156.433
%RSD	32.68245	3.697174	3.128789
#1	2.014117	56.13103	5005.066
#2	1.903882	58.54429	4840.800
#3	1.030205	54.39547	5153.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0060115-PS1 OPERATOR:
RUN TIME: 06/02/10 16:08:24
COMMENT: SDG:1005129 CLIENTID:SS53-0-1A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.12314	14398.28	371.7553	9.306538	828.0629	7.607120	85.83967
SDEV	.21989	166.12	2.0839	.076149	3.6175	.002306	.75604
%RSD	1.363840	1.153726	.5605647	.8182279	.4368578	.0303128	.8807625
#1	16.33185	14343.87	372.5756	9.330603	825.0449	7.608907	85.53607
#2	16.14401	14266.20	373.3042	9.221264	827.0710	7.604518	85.28261
#3	15.89355	14584.78	369.3861	9.367746	832.0729	7.607937	86.70032
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	31.12468	49.90740	7620.480	-943.964	490.3614	53.25141	451.3653
SDEV	.15300	.26539	62.211	2.901	.6867	.71122	40.4823
%RSD	.4915678	.5317666	.8163648	.3073309	.1400296	1.335582	8.968862
#1	30.94802	49.68761	7576.891	-943.883	490.5131	52.77255	405.0560
#2	31.21204	49.83235	7592.827	-946.905	489.6115	52.91304	469.0059
#3	31.21399	50.20223	7691.724	-941.105	490.9595	54.06864	480.0340
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	74.40048	10.41661	107.4995	55.63342	32.76676	9.527173	107.4222
SDEV	.39292	2.05406	1.8359	.33077	.90251	1.833401	1.3245
%RSD	.5281088	19.71905	1.707793	.5945545	2.754355	19.24392	1.233015
#1	74.45284	8.702944	106.3204	55.36274	32.34578	11.39049	108.9441
#2	74.76458	9.853354	106.5633	55.53540	32.15166	9.465800	106.5305
#3	73.98400	12.69354	109.6147	56.00212	33.80285	7.725229	106.7918
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.80378	37.20435	30.54823	-9.36525	18.95668	14.80269	-.858552
SDEV	1.75961	1.77461	1.41786	1.12158	3.19104	.66691	.380901
%RSD	9.883323	4.769903	4.641371	11.97598	16.83332	4.505354	44.36547
#1	18.99218	35.18163	30.92680	-10.6275	22.38044	14.95601	-.436088
#2	15.78235	38.49979	28.97951	-8.48314	18.42429	14.07247	-1.17575
#3	18.63681	37.93163	31.73837	-8.98512	16.06533	15.37960	-.963819
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.132276	281.4467	4759.489
SDEV	.135324	5.0828	20.396
%RSD	6.346482	1.805941	.4285331
#1	2.062784	276.3971	4755.066
#2	2.045815	281.3811	4781.733
#3	2.288227	286.5620	4741.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-01RE1 OPERATOR:
RUN TIME: 06/02/10 16:15:33
COMMENT: SDG:1005129 CLIENTID:SS55-00-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.031307	2939.392	33.90820	.0265405	26349.68	-.666409	-3.58366
SDEV	.262557	14.574	.32945	.1946401	154.76	.046122	.14873
%RSD	838.6503	.4958121	.9716073	733.3700	.5873201	6.921042	4.150091
#1	-.166971	2955.286	34.23958	.2353658	26179.98	-.616533	-3.47800
#2	-.198278	2936.232	33.90431	-.005909	26483.01	-.675173	-3.51924
#3	.2713279	2926.657	33.58071	-.149836	26386.05	-.707520	-3.75374
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.116450	85.19638	2919.955	L-1217.74	425.5763	32.63125	499.2789
SDEV	.741888	.30129	24.416	3.62	3.6042	.35212	26.6351
%RSD	9.140552	.3536458	.8361822	.2968851	.8468979	1.079075	5.334721
#1	7.843470	85.09989	2893.062	L-1213.67	422.1259	32.29855	529.8085
#2	7.549727	84.95515	2926.071	L-1218.96	425.2862	33.00001	487.2373
#3	8.956154	85.53410	2940.732	L-1220.58	429.3168	32.59520	480.7909
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.989397	-3.11048	7.737681	51.22932	32.43531	3.552560	11.04868
SDEV	.438331	2.09678	.610081	.32146	.81107	.630686	1.45014
%RSD	8.785249	67.41012	7.884551	.6274992	2.500573	17.75299	13.12497
#1	4.579821	-3.66159	7.134683	51.32564	32.44357	4.089550	11.94669
#2	4.936659	-.793189	7.723754	51.49161	33.24222	2.858042	9.375714
#3	5.451711	-4.87666	8.354608	50.87071	31.62015	3.710088	11.82363
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.188889	38.52466	29.39231	-17.1010	13.86127	15.29594	-.098633
SDEV	1.013831	2.19922	.63813	1.3779	.58350	1.10320	2.484340
%RSD	536.7330	5.708600	2.171067	8.057527	4.209574	7.212339	2518.773
#1	-.982597	39.87021	28.73290	-15.5151	13.87457	16.24855	2.702566
#2	-.537270	39.71700	30.00678	-18.0048	13.27124	15.55207	-2.03487
#3	.9531993	35.98676	29.43724	-17.7831	14.43801	14.08721	-.963590
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.301518	296.7552	4694.022
SDEV	.401810	3.8592	38.481
%RSD	30.87243	1.300452	.8197801
#1	1.680997	299.1833	4664.466
#2	1.342966	298.7772	4680.066
#3	.8805899	292.3052	4737.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-02RE1 OPERATOR:
RUN TIME: 06/02/10 16:22:41
COMMENT: SDG:1005129 CLIENTID:SB55-00-2.5-3 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.292199	10355.38	11.69063	-.598316	2198.322	-.856233	-4.10501
SDEV	.108451	28.10	.07633	.133577	11.822	.035057	.22170
%RSD	37.11538	.2713900	.6529416	22.32546	.5377666	4.094279	5.400641
#1	-.417428	10386.71	11.70268	-.465165	2198.492	-.823603	-3.85899
#2	-.229585	10332.39	11.76023	-.732315	2210.058	-.893295	-4.28930
#3	-.229585	10347.03	11.60899	-.597469	2186.416	-.851802	-4.16675
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.11312	1.683236	2746.191	L-1069.58	334.4747	12.44704	360.2822
SDEV	.46179	.226863	29.413	4.58	5.3457	.20385	29.0464
%RSD	2.416075	13.47779	1.071033	.4282419	1.598243	1.637739	8.062131
#1	19.61090	1.474171	2779.880	L-1066.99	337.2013	12.64459	389.4109
#2	19.02976	1.651072	2733.069	L-1066.88	337.9073	12.45910	360.1168
#3	18.69868	1.924464	2725.623	L-1074.86	328.3155	12.23743	331.3188
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.759472	-4.82618	14.83942	13.26181	15.76387	2.035833	8.397228
SDEV	.468941	1.70272	.17472	.29397	1.00570	1.353831	1.634382
%RSD	12.47358	35.28098	1.177406	2.216662	6.379792	66.50008	19.46335
#1	3.309591	-2.89057	15.03347	12.92288	16.56714	.8045728	8.259547
#2	4.245393	-6.09287	14.79017	13.44759	14.63594	1.817284	10.09610
#3	3.723433	-5.49509	14.69460	13.41495	16.08854	3.485643	6.836042
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3985528	19.72370	13.78413	-15.7452	10.91055	14.84335	-1.86341
SDEV	1.695269	2.65793	.34386	.9138	1.63016	1.79196	.74828
%RSD	425.3563	13.47582	2.494612	5.803590	14.94116	12.07248	40.15618
#1	.9715653	22.25710	13.72362	-16.7755	9.578950	16.31738	-1.38202
#2	-1.50897	16.95667	13.47455	-15.4272	10.42416	15.36393	-1.48273
#3	1.733059	19.95735	14.15423	-15.0329	12.72855	12.84874	-2.72549
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.1582556	345.9205	4882.667
SDEV	.5805362	2.9933	25.276
%RSD	366.8346	.8653188	.5176646
#1	.7238580	342.5195	4872.733
#2	.1870516	347.0874	4911.400
#3	-.436143	348.1547	4863.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-03RE1 OPERATOR:
RUN TIME: 06/02/10 16:29:49
COMMENT: SDG:1005129 CLIENTID:SS54-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.292199	65364.62	81.38326	.5773029	2335.654	-.581693	-3.88197
SDEV	.031307	1198.64	.94565	.2909533	22.545	.154360	.21211
%RSD	10.71429	1.833770	1.161973	50.39873	.9652526	26.53634	5.463864
#1	-.260892	66653.95	82.43541	.8089814	2311.240	-.636339	-3.99313
#2	-.323506	65155.77	80.60422	.6721711	2340.035	-.701296	-3.63739
#3	-.292199	64284.13	81.11015	.2507562	2355.686	-.407444	-4.01540
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	58.93455	10.72661	18872.46	332.6049	1591.927	53.89618	535.3264
SDEV	.85531	.29668	95.24	49.0930	11.203	.46255	49.5698
%RSD	1.451281	2.765840	.5046592	14.76014	.7037454	.8582228	9.259734
#1	58.06766	10.39961	18795.56	381.6346	1592.715	53.74544	506.1468
#2	59.77779	10.80166	18979.00	332.7312	1602.716	54.41530	592.5610
#3	58.95821	10.97856	18842.83	283.4489	1580.351	53.52780	507.2715
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.42553	-3.91008	79.98368	58.63745	49.01973	2.939564	8.160908
SDEV	1.32693	1.00292	1.00968	1.36713	.44988	1.657194	.769706
%RSD	10.67909	25.64958	1.262355	2.331505	.9177592	56.37550	9.431620
#1	10.91763	-5.05902	80.20963	57.06783	49.52677	3.931066	8.921499
#2	12.94404	-3.46125	80.86124	59.27639	48.66835	3.861201	8.178823
#3	13.41491	-3.20996	78.88017	59.56813	48.86406	1.026426	7.382401
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.475172	55.36117	45.85054	-14.5855	11.68636	14.65213	.4216486
SDEV	2.763301	2.21386	1.56649	1.5015	3.12920	1.81905	1.228291
%RSD	79.51552	3.998938	3.416515	10.29430	26.77648	12.41490	291.3067
#1	.5834514	54.53465	47.02329	-16.1699	13.96382	15.33106	-.736319
#2	3.753001	57.86938	44.07153	-14.4029	12.97698	12.59126	1.709879
#3	6.089063	53.67947	46.45681	-13.1836	8.118277	16.03406	.2913856
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.141089	377.3979	4691.689
SDEV	.136990	1.9183	110.916
%RSD	6.398169	.5082965	2.364089
#1	2.182884	376.3064	4575.466
#2	1.988070	376.2745	4703.200
#3	2.252314	379.6130	4796.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-04RE1 OPERATOR:
RUN TIME: 06/02/10 16:36:58
COMMENT: SDG:1005129 CLIENTID:SB54-4-5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.480042	112714.4	121.5161	.2836472	1610.679	-.399351	-3.70332
SDEV	.143467	814.9	.2956	.3421935	4.677	.594161	.52727
%RSD	29.88637	.7230114	.2432985	120.6405	.2903574	148.7816	14.23774
#1	-.636577	113328.2	121.8173	.5605476	1606.976	-.669735	-3.17918
#2	-.448735	113025.3	121.2263	-.098916	1615.935	-.810233	-4.23366
#3	-.354813	111789.8	121.5047	.3893096	1609.128	.2819147	-3.69713
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	121.6466	8.845028	50765.04	2533.845	3947.715	61.66372	555.5160
SDEV	2.0695	.244070	590.67	57.291	44.627	.91272	37.5129
%RSD	1.701239	2.759406	1.163543	2.261039	1.130459	1.480156	6.752803
#1	121.7418	8.582357	51043.80	2588.237	3966.590	62.44669	526.0490
#2	119.5311	9.064814	50086.57	2474.039	3896.751	60.66127	542.7543
#3	123.6668	8.887912	51164.73	2539.260	3979.802	61.88320	597.7448
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	18.44994	-3.57927	153.4030	47.93185	58.62389	4.102998	8.261575
SDEV	.45019	2.13077	.4734	.44344	.13555	2.001939	.876909
%RSD	2.440078	59.53068	.3085665	.9251572	.2312169	48.79210	10.61431
#1	18.45225	-6.02397	153.7658	47.55279	58.76229	6.318005	8.669569
#2	17.99860	-2.59729	153.5756	47.82325	58.49138	2.422723	7.255003
#3	18.89898	-2.11657	152.8676	48.41951	58.61800	3.568266	8.860151
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.482137	60.50202	57.68313	-10.8970	11.58926	19.69647	1.128044
SDEV	.269278	.79705	.55317	1.0069	2.95921	2.21979	.688697
%RSD	3.598941	1.317396	.9589825	9.240637	25.53407	11.26999	61.05234
#1	7.630153	59.64294	58.31948	-10.3829	14.65342	17.25411	.7054013
#2	7.644939	60.64560	57.41283	-10.2508	8.747557	21.59117	.7559843
#3	7.171319	61.21752	57.31708	-12.0572	11.36680	20.24413	1.922747
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.471542	821.0182	4876.111
SDEV	1.370898	5.0206	67.318
%RSD	39.48960	.6115037	1.380568
#1	4.703167	817.9050	4812.400
#2	3.716941	826.8100	4946.533
#3	1.994518	818.3395	4869.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 16:44:07
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	100.4331	46502.32	912.9780	1035.315	48057.94	968.8497	1010.038
SDEV	.4475	661.54	7.1214	14.211	689.40	5.5880	10.909
%RSD	.4455915	1.422585	.7800179	1.372605	1.434523	.5767710	1.080070
#1	100.0469	46934.84	921.1499	1039.084	48183.23	969.6975	1007.934
#2	100.9236	46831.34	909.6856	1047.261	48676.11	973.9655	1021.845
#3	100.3287	45740.79	908.0986	1019.599	47314.49	962.8863	1000.333
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	967.6964	1006.763	24998.35	51373.79	49833.84	1002.046	49195.91
SDEV	23.9989	4.834	344.85	318.50	713.70	14.604	321.73
%RSD	2.480005	.4801236	1.379489	.6199743	1.432161	1.457460	.6539847
#1	955.9625	1004.468	24944.84	51617.53	49881.12	993.4708	49220.51
#2	995.3046	1012.316	25366.84	51490.44	50522.73	1018.909	49504.63
#3	951.8220	1003.503	24683.40	51013.41	49097.68	993.7581	48862.58
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	976.7362	1008.059	987.7950	1057.990	973.7191	1004.023	1004.882
SDEV	7.1975	11.321	12.6585	10.434	7.8940	.841	8.953
%RSD	.7368912	1.123076	1.281494	.9862066	.8107068	.0837703	.8909580
#1	978.8386	1016.138	990.6749	1055.680	973.5028	1004.888	1007.771
#2	982.6484	1012.921	998.7654	1069.386	981.7190	1003.971	1012.035
#3	968.7216	995.1193	973.9446	1048.905	965.9354	1003.209	994.8415
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1027.590	973.7906	973.6808	1018.252	996.9159	1038.987	990.9881
SDEV	9.876	12.4239	5.7353	3.434	1.2650	11.899	8.3964
%RSD	.9611286	1.275831	.5890307	.3372159	.1268887	1.145244	.8472741
#1	1030.440	971.6450	974.4279	1021.968	996.3589	1042.396	992.1122
#2	1035.727	987.1476	979.0059	1015.197	998.3638	1048.810	998.7658
#3	1016.601	962.5792	967.6086	1017.592	996.0251	1025.756	982.0862
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1016.045	983.3882	4864.800
SDEV	10.825	12.7368	31.641
%RSD	1.065430	1.295194	.6504156
#1	1021.093	985.1720	4834.133
#2	1023.424	995.1391	4862.933
#3	1003.618	969.8536	4897.333
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 16:51:17
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.177407	-1.28249	.0435018	-.150376	381.0885	-.522274	-3.02241
SDEV	.095645	12.07531	.0781226	.263471	6.3994	.561292	.82975
%RSD	53.91266	941.5505	179.5846	175.2078	1.679247	107.4708	27.45326
#1	-.198278	1.607453	.0009794	.0200617	377.1361	-.954539	-3.80568
#2	-.073050	-14.5406	-.004136	-.453838	377.6577	-.724361	-3.10863
#3	-.260892	9.085632	.1336617	-.017352	388.4718	.1120793	-2.15291
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4279719	-1.27583	1.269228	-1430.71	10.33033	.1866089	.1370541
SDEV	.8109986	.04825	4.095950	6.38	5.69951	.0975299	24.11071
%RSD	189.4981	3.781504	322.7119	.4459600	55.17260	52.26431	17592.11
#1	.4671556	-1.22758	1.720885	-1436.49	4.890253	.1353294	-27.5054
#2	-.401908	-1.32407	-3.03383	-1431.77	9.842778	.1254162	16.83027
#3	1.218668	-1.27583	5.120630	-1423.86	16.25795	.2990812	11.08627
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.142217	1.598782	.0318801	.8168217	.3199806	1.032678	-.437548
SDEV	.522235	2.745804	.2891648	.1545139	1.648873	.562151	.597677
%RSD	367.2095	171.7435	907.0386	18.91648	515.3040	54.43628	136.5969
#1	-.523875	2.983442	-.232261	.6648470	-1.41908	1.182654	.2040927
#2	-.355718	-1.56367	-.012935	.8118626	.5182838	.4107489	-.978461
#3	.4529412	3.376569	.3408358	.9737554	1.860734	1.504631	-.538276
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.097944	1.076854	-.060365	1.008199	1.042415	-.305371	.9419161
SDEV	.303114	2.374306	1.509878	2.267909	.302071	1.597667	1.061209
%RSD	309.4767	220.4854	2501.252	224.9465	28.97800	523.1892	112.6649
#1	-.438245	-.659567	-1.80079	1.835633	.8541012	.9377409	.4013735
#2	.1430905	.1076860	.7208404	-1.55724	1.390836	-2.10741	2.164566
#3	.0013225	3.782442	.8988548	2.746209	.8823070	.2535580	.2598093
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.074839	.1863605	4880.022
SDEV	.254450	.2259970	94.127
%RSD	23.67330	121.2687	1.928833
#1	1.294633	.0821539	4777.600
#2	.7960852	.0312674	4962.733
#3	1.133800	.4456603	4899.733
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-06RE1 OPERATOR:
RUN TIME: 06/02/10 16:58:25
COMMENT: SDG:1005129 CLIENTID:SB53-7-8 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.813984	41936.25	42.76725	-.170085	773.9362	-1.14317	-5.90978
SDEV	.141171	359.55	.65860	.288688	5.1688	.22176	.22246
%RSD	17.34327	.8573728	1.539957	169.7316	.6678535	19.39836	3.764308
#1	-.949648	41977.18	43.44463	.1524747	767.9687	-1.26625	-5.65303
#2	-.824419	42273.59	42.12920	-.404216	776.8321	-1.27608	-6.03114
#3	-.667884	41557.99	42.72790	-.258514	777.0077	-.887168	-6.04518
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	58.52184	7.038498	38809.85	794.4526	1386.407	42.65878	390.8838
SDEV	1.46350	.251207	233.93	19.5795	3.595	.25139	88.9835
%RSD	2.500775	3.569038	.6027613	2.464525	.2593260	.5892940	22.76468
#1	57.20201	6.749024	38607.35	816.3923	1386.344	42.47613	491.1138
#2	60.09574	7.167152	39065.92	788.2097	1390.033	42.94549	321.1852
#3	58.26776	7.199317	38756.29	778.7558	1382.843	42.55472	360.3525
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.287934	-6.64929	107.1814	26.00434	36.93090	5.527474	9.862208
SDEV	.345813	3.53823	1.3535	.58018	.31961	.586762	2.561085
%RSD	5.499629	53.21222	1.262831	2.231085	.8654335	10.61537	25.96867
#1	5.890032	-9.67433	106.8665	26.19950	37.20668	4.905086	8.391842
#2	6.457860	-7.51500	108.6646	25.35175	36.58062	6.070539	8.375305
#3	6.515909	-2.75854	106.0131	26.46178	37.00540	5.606797	12.81948
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.41550	39.90358	35.44400	-8.68813	12.62214	16.95810	-3.03627
SDEV	1.94067	.45009	.29616	5.67940	3.13714	1.09365	1.30698
%RSD	5.986872	1.127945	.8355671	65.36961	24.85429	6.449138	43.04562
#1	32.49450	40.40571	35.60675	-4.91087	9.803203	15.77613	-4.50323
#2	34.31547	39.53641	35.10216	-5.93406	12.06137	17.93417	-2.60973
#3	30.43653	39.76860	35.62310	-15.2195	16.00186	17.16401	-1.99584
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.355982	753.0149	4886.066
SDEV	.201701	4.0924	41.327
%RSD	6.010198	.5434679	.8458178
#1	3.504266	749.2419	4838.400
#2	3.437378	757.3654	4911.866
#3	3.126301	752.4376	4907.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-07RE1 OPERATOR:
RUN TIME: 06/02/10 17:05:34
COMMENT: SDG:1005129 CLIENTID:SS80-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4069919	16284.94	38.80520	.1943459	12314.98	-.904992	-4.39915
SDEV	.7037710	235.55	.25038	.1454596	105.58	.166946	.05867
%RSD	172.9202	1.446415	.6452266	74.84573	.8573225	18.44724	1.333739
#1	-.198278	16494.61	38.73691	.3337179	12213.73	-.725970	-4.46110
#2	1.179233	16330.16	38.59605	.2058392	12424.41	-.932580	-4.39191
#3	.2400209	16030.07	39.08264	.0434806	12306.78	-1.05642	-4.34443
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	30.24100	9.504385	6646.584	-336.802	695.7210	69.19939	533.2034
SDEV	.77413	.228755	18.282	17.714	10.4116	.72249	147.5449
%RSD	2.559877	2.406835	.2750514	5.259472	1.496519	1.044070	27.67140
#1	30.98198	9.241715	6664.846	-321.304	703.7339	70.00059	412.9807
#2	30.30351	9.611597	6646.623	-332.991	699.4763	69.00019	697.8583
#3	29.43750	9.659843	6628.283	-356.111	683.9526	68.59740	488.7713
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.575707	-6.59894	23.98601	30.24860	38.03902	1.728679	8.715886
SDEV	.944795	3.37685	.64085	.54842	.87308	1.455541	1.095229
%RSD	12.47137	51.17263	2.671786	1.813029	2.295226	84.19961	12.56590
#1	7.538605	-8.88702	23.34169	30.87243	38.80966	.0695109	9.815836
#2	8.538507	-2.72056	24.62334	30.03094	37.09080	2.325947	8.706384
#3	6.650011	-8.18925	23.99299	29.84242	38.21659	2.790578	7.625439
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.414659	47.13622	33.49437	-12.7049	8.932099	17.85588	1.834085
SDEV	.936599	3.35106	2.95676	6.6185	1.605625	1.38403	2.359570
%RSD	38.78802	7.109311	8.827624	52.09444	17.97589	7.751096	128.6511
#1	2.010526	43.63302	36.39864	-20.0690	10.12104	16.39175	-.522086
#2	1.747978	50.31095	30.48778	-7.25284	7.105620	19.14271	4.197040
#3	3.485475	47.46470	33.59667	-10.7929	9.569639	18.03318	1.827301
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.538003	249.6171	4744.511
SDEV	.706787	1.8316	121.685
%RSD	45.95486	.7337546	2.564763
#1	2.045226	251.6971	4612.466
#2	1.838098	248.9084	4768.933
#3	.7306842	248.2457	4852.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-08RE1 OPERATOR:
RUN TIME: 06/02/10 17:12:42
COMMENT: SDG:1005129 CLIENTID:SB80-3-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0939212	17565.45	17.42281	-.279345	917.8626	-.950717	-5.64524
SDEV	.0723006	283.28	.15804	.269091	5.0643	.126432	.97163
%RSD	76.98000	1.612730	.9071118	96.32912	.5517460	13.29861	17.21157
#1	.1774067	17842.65	17.60512	-.016027	921.6340	-1.01182	-4.77743
#2	.0521785	17276.45	17.33886	-.553859	912.1066	-1.03499	-6.69498
#3	.0521785	17577.26	17.32446	-.268149	919.8472	-.805340	-5.46331
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	24.18495	6.609648	11676.72	-921.563	407.1936	12.49661	420.6575
SDEV	.68958	.122827	187.99	10.057	6.5250	.26132	58.1577
%RSD	2.851294	1.858304	1.609924	1.091288	1.602430	2.091137	13.82543
#1	24.10703	6.475632	11757.40	-912.238	409.0176	12.49401	485.5266
#2	23.53765	6.636451	11461.85	-932.219	399.9507	12.23660	403.2667
#3	24.91019	6.716860	11810.89	-920.234	412.6125	12.75922	373.1792
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.260031	-6.63404	31.05036	23.22573	16.57002	3.372242	8.823312
SDEV	.697466	3.86291	.66646	.63607	1.07219	2.484028	.701514
%RSD	13.25973	58.22859	2.146383	2.738628	6.470663	73.66102	7.950684
#1	4.636923	L-10.9206	31.43980	23.31930	17.55108	1.148416	8.138034
#2	5.129702	-3.42244	30.28082	22.54805	16.73350	6.053022	9.540006
#3	6.013468	-5.55912	31.43048	23.80982	15.42548	2.915289	8.791897
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.488908	22.26819	13.72240	-14.8897	12.48702	17.72992	.0352526
SDEV	1.625749	1.67388	1.14970	5.7097	.92507	.79614	.6697868
%RSD	65.31979	7.516914	8.378277	38.34658	7.408248	4.490392	1899.966
#1	.6250606	24.19196	14.23276	-19.5908	11.49995	17.34630	-.437413
#2	3.226880	21.14447	14.52856	-8.53599	13.33414	17.19821	-.258561
#3	3.614782	21.46813	12.40587	-16.5423	12.62698	18.64524	.8017314
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.164369	298.1457	4840.711
SDEV	.592760	3.5909	83.646
%RSD	50.90828	1.204423	1.727962
#1	1.841497	300.4332	4764.066
#2	.9123391	294.0069	4929.933
#3	.7392711	299.9969	4828.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-09RE1 OPERATOR:
RUN TIME: 06/02/10 17:19:50
COMMENT: SDG:1005129 CLIENTID:SS56-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.720063	62870.09	109.4942	.2999974	15014.70	-1.09361	-8.22832
SDEV	.213103	1200.25	1.7375	.2238451	168.40	.23368	.13033
%RSD	29.59504	1.909096	1.586859	74.61567	1.121598	21.36752	1.583981
#1	-.793112	62421.44	108.7437	.0476631	15079.12	-1.07476	-8.12677
#2	-.480042	61958.79	108.2581	.3776655	14823.60	-.869925	-8.37528
#3	-.887034	64230.04	111.4809	.4746636	15141.40	-1.33614	-8.18290
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	49.46018	19.46442	48921.47	-263.616	1312.078	44.22373	454.4895
SDEV	.53931	.13487	407.03	28.363	13.596	.51603	98.6487
%RSD	1.090389	.6929071	.8320163	10.75907	1.036232	1.166854	21.70539
#1	49.43359	19.53411	48860.09	-289.162	1300.146	43.87836	340.7035
#2	48.93466	19.30896	48548.61	-268.590	1309.209	43.97592	506.7859
#3	50.01230	19.55019	49355.71	-233.095	1326.880	44.81692	515.9790
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.33709	-4.49424	69.36916	25.83749	58.21117	5.699362	11.57604
SDEV	.35731	.87379	1.60163	.53316	1.95985	1.632939	1.31442
%RSD	3.456555	19.44247	2.308852	2.063499	3.366788	28.65126	11.35468
#1	10.60562	-4.84412	69.00337	26.40868	60.33031	4.386241	12.62177
#2	10.47408	-3.49973	67.98206	25.35298	56.46390	5.184054	12.00583
#3	9.931554	-5.13887	71.12204	25.75082	57.83929	7.527791	10.10052
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.583437	56.16053	59.23209	-11.1403	14.10403	11.75606	-2.25133
SDEV	.331741	1.95604	3.89743	3.0803	1.33592	1.75118	1.30638
%RSD	7.237811	3.482947	6.579938	27.64977	9.471900	14.89595	58.02692
#1	4.810876	54.26730	63.35445	-14.5475	13.83643	9.805141	-3.57294
#2	4.736655	58.17385	55.60738	-10.3204	12.92216	13.19202	-2.22032
#3	4.202781	56.04046	58.73445	-8.55289	15.55349	12.27102	-.960736
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.2262403	434.3987	4773.289
SDEV	.5843204	6.5473	81.994
%RSD	258.2743	1.507213	1.717777
#1	-.431488	436.6296	4826.533
#2	.4248132	427.0275	4814.466
#3	.6853952	439.5391	4678.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-10RE1 OPERATOR:
RUN TIME: 06/02/10 17:26:58
COMMENT: SDG:1005129 CLIENTID:SB56-3-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.323506	105948.6	102.6601	.0700381	3213.010	-.026976	-2.36093
SDEV	.219149	833.1	.6691	.1299079	18.848	.169879	.17667
%RSD	67.74194	.7862933	.6517278	185.4819	.5865995	629.7352	7.483122
#1	-.104357	106800.3	103.4111	.2173327	3208.345	-.201177	-2.19805
#2	-.542656	105135.5	102.4418	.0209727	3196.934	.1382237	-2.33599
#3	-.323506	105909.9	102.1274	-.028191	3233.752	-.017976	-2.54875
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	104.3919	7.906918	29237.05	1355.036	2755.821	49.18373	518.0970
SDEV	.5409	.255291	122.46	20.500	17.215	.06301	55.1319
%RSD	.5181906	3.228702	.4188528	1.512874	.6246943	.1281125	10.64123
#1	104.7666	8.099900	29165.72	1377.919	2751.839	49.16522	545.9126
#2	103.7717	7.617446	29166.97	1338.348	2740.946	49.13204	454.5984
#3	104.6373	8.003409	29378.45	1348.841	2774.679	49.25392	553.7800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.42873	-4.67048	160.6382	27.75150	68.40227	2.563012	9.206841
SDEV	.33662	5.28215	1.7273	.91815	2.09387	1.230617	1.036396
%RSD	2.506750	113.0965	1.075298	3.308487	3.061112	48.01448	11.25681
#1	13.26791	-5.03750	160.7811	26.69347	66.09539	3.854241	8.886549
#2	13.20267	.7856064	158.8439	28.22186	68.92879	2.431173	8.368401
#3	13.81560	-9.75955	162.2897	28.33916	70.18263	1.403623	10.36558
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.429719	73.18629	66.01108	-16.1297	11.89289	19.72745	-1.03225
SDEV	1.951396	1.32874	2.93828	2.2881	1.37727	3.68493	2.26533
%RSD	80.31364	1.815558	4.451193	14.18543	11.58063	18.67921	219.4540
#1	.2835863	72.18108	63.05432	-15.3498	13.43939	23.85907	1.301406
#2	4.097370	74.69274	66.04839	-14.3335	10.79851	18.54256	-1.17575
#3	2.908202	72.68504	68.93053	-18.7058	11.44078	16.78073	-3.22242
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.284712	725.5381	4907.333
SDEV	1.269917	12.6941	32.211
%RSD	55.58324	1.749613	.6563768
#1	1.464467	733.8427	4872.066
#2	1.642177	710.9256	4935.200
#3	3.747492	731.8460	4914.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-11RE1 OPERATOR:
RUN TIME: 06/02/10 17:34:07
COMMENT: SDG:1005129 CLIENTID:SS58-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2921993	3504.557	16.06662	-.877135	686.6082	-.697771	-3.71547
SDEV	.5479482	20.911	.17638	.145431	1.9035	.049488	.61933
%RSD	187.5255	.5966690	1.097808	16.58021	.2772301	7.092294	16.66902
#1	.3026350	3528.559	16.15899	-.746101	687.3498	-.682462	-3.44628
#2	.8348551	3490.279	16.17764	-.851697	688.0292	-.753104	-3.27628
#3	-.260892	3494.832	15.86324	-1.03361	684.4455	-.657746	-4.42385
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.922358	.8630600	2601.919	L-1234.34	135.8711	17.54521	455.3852
SDEV	.102824	.2401537	25.748	7.72	6.4521	.14120	178.5782
%RSD	1.297896	27.82584	.9895815	.6255646	4.748713	.8047613	39.21476
#1	7.929032	1.136452	2624.854	L-1233.09	137.7680	17.62560	415.6686
#2	8.021682	.6861592	2606.836	L-1227.32	141.1622	17.62786	650.4779
#3	7.816359	.7665687	2574.067	L-1242.61	128.6832	17.38218	300.0090
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.818291	-5.26950	6.490547	8.610091	8.686120	1.575937	10.40033
SDEV	.244006	.96697	.347551	.287224	1.386115	1.579459	1.32437
%RSD	13.41954	18.35036	5.354725	3.335905	15.95781	100.2235	12.73396
#1	2.087819	-6.29892	6.774079	8.829730	9.299832	2.289565	9.014403
#2	1.612427	-5.12929	6.594746	8.285058	9.659432	-.234405	11.65309
#3	1.754628	-4.38029	6.102816	8.715486	7.099095	2.672649	10.53349
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.59946	14.38006	5.840651	-16.9307	10.81292	14.53447	-1.14093
SDEV	.82422	4.20876	.616007	.8502	2.62944	1.19863	1.72665
%RSD	51.53137	29.26800	10.54688	5.021668	24.31756	8.246794	151.3371
#1	-2.54066	14.85484	6.523704	-16.3976	11.61665	13.30415	-1.58830
#2	-1.25113	18.33129	5.327241	-16.4833	7.875412	15.69867	.7653772
#3	-1.00659	9.954043	5.671009	-17.9112	12.94668	14.60060	-2.59987
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.8188290	157.8316	4909.711
SDEV	.7403781	2.2169	34.498
%RSD	90.41914	1.404582	.7026398
#1	1.673737	157.2711	4871.866
#2	.3943136	155.9489	4917.866
#3	.3884362	160.2750	4939.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-12RE1 OPERATOR:
RUN TIME: 06/02/10 17:41:15
COMMENT: SDG:1005129 CLIENTID:SS52-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2400209	4150.536	97.95007	.1350797	2609.557	-1.02117	-4.39103
SDEV	.5172777	30.613	.39457	.1804600	30.490	.32155	.59477
%RSD	215.5136	.7375589	.4028226	133.5952	1.168388	31.48817	13.54509
#1	.7409339	4116.992	98.33877	.0194913	2584.891	-1.13770	-4.63081
#2	-.292199	4176.964	97.54989	.0427230	2600.133	-1.26820	-4.82847
#3	.2713279	4157.653	97.96156	.3430248	2643.646	-.657602	-3.71379
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.845092	6.078946	1766.053	L-1245.50	356.4200	17.14947	622.7076
SDEV	.117141	.218343	28.607	9.36	2.1378	.30764	135.5406
%RSD	1.189837	3.591784	1.619803	.7517260	.5997909	1.793856	21.76634
#1	9.920575	6.330895	1742.855	L-1236.86	358.8821	16.87634	756.7737
#2	9.904553	5.961012	1757.287	L-1255.45	355.0352	17.08934	485.7390
#3	9.710146	5.944931	1798.017	L-1244.19	355.3427	17.48274	625.6101
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.828436	-1.38630	8.460993	8.852757	15.92323	3.212359	8.661015
SDEV	.888466	1.74010	.568143	.139386	.42712	.646896	2.126916
%RSD	31.41193	125.5212	6.714855	1.574494	2.682370	20.13771	24.55736
#1	3.665850	.5770634	9.068489	8.900704	16.02158	2.665068	9.638869
#2	1.896478	-1.99804	7.942773	8.961842	16.29259	3.926264	10.12314
#3	2.922980	-2.73791	8.371716	8.695726	15.45551	3.045745	6.221030
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.76094	25.00233	11.38780	-12.4029	11.00569	18.02529	.7689366
SDEV	1.13001	3.66467	2.15451	1.8485	1.88794	1.94400	3.425143
%RSD	64.17050	14.65730	18.91944	14.90403	17.15419	10.78483	445.4390
#1	-2.91367	28.52393	9.777226	-10.6486	9.309397	20.22664	4.653657
#2	-.655123	21.20965	13.83517	-14.3331	13.03969	17.30500	-1.81632
#3	-1.71403	25.27341	10.55101	-12.2268	10.66798	16.54424	-.530525
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.9634678	388.4665	4706.689
SDEV	.8107510	2.8832	33.433
%RSD	84.14926	.7421884	.7103399
#1	1.746679	387.9127	4740.066
#2	.1277308	385.9004	4706.800
#3	1.015994	391.5864	4673.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-13RE1 OPERATOR:
RUN TIME: 06/02/10 17:48:23
COMMENT: SDG:1005129 CLIENTID:SS57-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0417428	5825.690	11.77484	-.542741	1790.509	-.741366	-4.13957
SDEV	.3655472	44.328	.09085	.144655	19.826	.123950	.77771
%RSD	875.7134	.7609050	.7715252	26.65260	1.107271	16.71913	18.78731
#1	.1147926	5868.633	11.71046	-.380054	1783.686	-.881893	-4.02008
#2	.3652492	5828.338	11.87875	-.591303	1812.845	-.647591	-3.42851
#3	-.354813	5780.096	11.73530	-.656866	1774.996	-.694615	-4.97011
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.12509	5.762670	2166.577	L-1086.22	243.7490	21.73114	486.6552
SDEV	.21780	.196524	31.654	8.29	5.2153	.10627	122.9296
%RSD	1.796287	3.410289	1.461015	.7631387	2.139600	.4890173	25.26010
#1	11.92065	5.977095	2181.856	L-1088.24	243.0218	21.72679	417.0707
#2	12.35416	5.719785	2187.692	L-1077.11	249.2897	21.83952	628.5931
#3	12.10046	5.591130	2130.181	L-1093.31	238.9355	21.62711	414.3020
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.003574	-5.75926	13.84461	12.27108	18.80762	3.530465	9.917547
SDEV	.328534	1.50271	.50069	.58961	.31376	.813814	.949472
%RSD	10.93811	26.09197	3.616479	4.804847	1.668276	23.05118	9.573654
#1	3.371094	-6.95557	13.85262	11.69563	18.97163	3.334595	10.90891
#2	2.738380	-4.07264	14.34125	12.87389	19.00539	2.832461	9.827334
#3	2.901248	-6.24958	13.33997	12.24373	18.44584	4.424339	9.016401
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.103720	23.92578	16.24814	-14.4653	12.51240	13.90130	-.120192
SDEV	1.859601	.95058	.20297	1.3870	1.91191	1.42930	1.255407
%RSD	88.39582	3.973041	1.249205	9.588485	15.28016	10.28175	1044.502
#1	2.241236	24.78738	16.06384	-14.2188	12.09566	14.31647	-1.48619
#2	3.890745	24.08391	16.46568	-13.2181	10.84323	15.07705	.9830335
#3	.1791788	22.90605	16.21489	-15.9590	14.59831	12.31038	.1425766
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.170509	242.3119	4899.311
SDEV	.235947	2.6633	50.419
%RSD	20.15768	1.099131	1.029102
#1	1.258907	243.7449	4855.733
#2	1.349492	243.9520	4887.667
#3	.9031269	239.2389	4954.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-14RE1 OPERATOR:
RUN TIME: 06/02/10 17:55:31
COMMENT: SDG:1005129 CLIENTID:SS60-00-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.344378	11759.33	44.56005	-.268845	1885.982	-.949144	-4.53795
SDEV	.402553	37.74	.56098	.304549	9.758	.182272	.43757
%RSD	116.8928	.3209075	1.258941	113.2804	.5174177	19.20388	9.642566
#1	-.636577	11727.61	43.91801	-.605962	1888.850	-1.15800	-4.99385
#2	.1147926	11749.32	44.95554	-.186970	1893.986	-.867262	-4.12136
#3	-.511349	11801.06	44.80660	-.013603	1875.111	-.822171	-4.49863
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.71407	7.156431	3001.976	L-1035.81	418.1065	39.60492	372.0768
SDEV	.27290	.354653	11.178	25.52	5.5480	.30169	250.1613
%RSD	1.989942	4.955727	.3723419	2.463521	1.326942	.7617373	67.23380
#1	14.02839	7.456627	3014.314	L-1065.25	412.5378	39.34654	84.58897
#2	13.57632	7.247561	2999.089	L-1020.06	423.6336	39.53175	540.1883
#3	13.53749	6.765106	2992.525	L-1022.11	418.1480	39.93646	491.4530
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.907989	-4.63028	19.60234	23.12324	26.14952	3.493670	9.955391
SDEV	.730787	2.58579	.11546	.49100	1.34183	.722745	1.999067
%RSD	14.88975	55.84525	.5890232	2.123408	5.131392	20.68727	20.08024
#1	4.149070	-4.06680	19.47199	23.68904	25.29175	4.216215	12.26341
#2	4.967948	-7.45135	19.69178	22.80891	25.46096	2.770726	8.768701
#3	5.606950	-2.37269	19.64325	22.87177	27.69585	3.494069	8.834066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.863206	30.07454	24.18707	-18.4713	14.45710	13.05121	-2.67407
SDEV	1.385197	4.38414	1.98142	1.9080	.99306	1.56323	3.66142
%RSD	160.4711	14.57756	8.192072	10.32947	6.868990	11.97763	136.9231
#1	.5976227	25.01224	25.42845	-18.3935	15.50162	11.25114	-6.84701
#2	-1.02948	32.58384	21.90196	-20.4169	14.34458	14.06735	.0005497
#3	-2.15776	32.62755	25.23078	-16.6033	13.52509	13.83514	-1.17575
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.1997480	488.4650	4712.289
SDEV	.1715169	1.4941	68.074
%RSD	85.86662	.3058718	1.444605
#1	.2174064	489.0057	4785.933
#2	.0200851	489.6134	4699.267
#3	.3617526	486.7758	4651.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-15RE1 OPERATOR:
RUN TIME: 06/02/10 18:02:39
COMMENT: SDG:1005129 CLIENTID:SS59-00-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0104357	11507.98	78.57478	.1754468	2224.179	-.888071	-4.74029
SDEV	.2959029	90.99	.40740	.0866717	15.192	.217695	.38119
%RSD	2835.484	.7906505	.5184902	49.40057	.6830276	24.51326	8.041591
#1	.2400209	11591.02	78.69519	.2649133	2232.431	-.745717	-4.85584
#2	.1147926	11410.72	78.12073	.0918703	2206.647	-.779824	-5.05033
#3	-.323506	11522.21	78.90839	.1695567	2233.459	-1.13867	-4.31468
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.78814	4.819200	8856.768	-663.297	652.1678	72.21684	572.6312
SDEV	.44146	.112573	46.255	4.823	4.8331	1.09291	35.0957
%RSD	2.629605	2.335925	.5222610	.7271666	.7410880	1.513374	6.128851
#1	17.26720	4.931773	8880.134	-658.365	657.6814	72.02228	609.6705
#2	16.69948	4.819200	8803.490	-668.003	650.1587	71.23427	568.3513
#3	16.39774	4.706627	8886.679	-663.523	648.6632	73.39396	539.8716
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.237950	-4.96468	26.56927	17.74496	37.00244	1.627938	9.521828
SDEV	.916024	1.79336	.32442	.60307	1.48948	1.648780	.449348
%RSD	21.61479	36.12236	1.221023	3.398552	4.025349	101.2803	4.719138
#1	3.889653	-6.87646	26.94374	18.42007	35.47671	-.028127	9.821426
#2	5.277036	-4.69799	26.39068	17.25953	37.07780	3.269335	9.005157
#3	3.547161	-3.31960	26.37340	17.55527	38.45280	1.642605	9.738899
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.271924	44.54774	33.23260	-15.4518	10.15248	15.40613	-.159370
SDEV	1.931769	1.73059	3.01913	1.8938	2.01063	2.00132	.597046
%RSD	151.8777	3.884788	9.084851	12.25618	19.80431	12.99040	374.6284
#1	.5002712	46.54554	29.94775	-15.8225	7.854687	17.71682	.5046489
#2	3.470247	43.50970	33.86384	-13.4001	11.58902	14.27928	-.651919
#3	-.154747	43.58799	35.88620	-17.1329	11.01373	14.22228	-.330840
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.689536	400.9520	4780.377
SDEV	.719505	1.2114	19.511
%RSD	42.58593	.3021233	.4081537
#1	.8622455	399.9040	4785.333
#2	2.037002	400.6737	4796.933
#3	2.169361	402.2783	4758.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/02/10 18:09:48
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	103.3551	46331.57	902.7579	1064.485	49929.80	1005.878	1045.503
SDEV	1.0488	130.60	4.1787	1.918	134.60	5.058	15.129
%RSD	1.014778	.2818884	.4628760	.1802089	.2695877	.5027991	1.447072
#1	103.9917	46335.68	905.9586	1062.455	49781.38	1001.313	1032.718
#2	103.9290	46198.95	904.2845	1064.735	50043.97	1005.007	1041.584
#3	102.1445	46460.06	898.0306	1066.267	49964.04	1011.315	1062.206
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1004.690	1016.910	25879.49	50322.94	51119.91	1037.701	48808.27
SDEV	20.925	3.305	367.22	463.19	646.76	17.060	262.31
%RSD	2.082773	.3250010	1.418951	.9204385	1.265187	1.644049	.5374252
#1	984.2473	1018.572	25541.85	49934.86	50539.79	1019.992	48561.43
#2	1003.757	1019.054	25826.15	50198.25	51002.66	1039.083	48779.68
#3	1026.067	1013.104	26270.46	50835.72	51817.28	1054.028	49083.71
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1007.322	1023.822	1009.486	1127.721	998.9175	1016.581	1018.831
SDEV	5.280	7.249	7.928	12.774	6.6520	9.370	1.486
%RSD	.5241300	.7080502	.7853490	1.132705	.6659208	.9217460	.1458319
#1	1002.097	1017.309	1002.943	1115.374	991.3036	1010.290	1018.442
#2	1007.216	1022.526	1007.214	1126.907	1001.846	1012.103	1017.578
#3	1012.654	1031.632	1018.303	1140.883	1003.602	1027.350	1020.472
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1046.347	1000.363	998.1925	1034.415	1007.675	1072.596	1000.864
SDEV	7.889	7.475	7.5765	8.144	10.732	11.434	3.563
%RSD	.7539897	.7472323	.7590227	.7873188	1.065075	1.066015	.3559566
#1	1038.301	993.1776	990.3649	1033.543	998.6782	1063.352	998.1304
#2	1046.669	1008.097	998.7225	1026.742	1004.793	1069.054	999.5689
#3	1054.070	999.8148	1005.490	1042.960	1019.554	1085.382	1004.893
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1045.340	993.2190	4947.644
SDEV	3.507	2.6287	45.120
%RSD	.3355086	.2646628	.9119497
#1	1049.362	995.8896	4986.999
#2	1043.736	993.1329	4957.533
#3	1042.921	990.6344	4898.400
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/02/10 18:16:58
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.292199	4.975264	.0294722	-.013973	381.2724	-.450035	-2.88676
SDEV	.219149	2.728355	.0189274	.135470	1.8133	.252190	.43749
%RSD	75.00001	54.83840	64.22121	969.4878	.4755896	56.03788	15.15523
#1	-.542656	7.382328	.0079769	.0171718	380.6506	-.178133	-3.38861
#2	-.135664	5.531977	.0367979	.1032119	379.8519	-.676273	-2.68593
#3	-.198278	2.011489	.0436418	-.162304	383.3148	-.495700	-2.58574
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.201446	-1.27583	2.233714	-1427.68	10.82870	.2497087	22.60530
SDEV	.265765	.18546	3.979497	4.12	2.55315	.0534277	90.02010
%RSD	131.9284	14.53683	178.1560	.2887600	23.57759	21.39600	398.2256
#1	.0312501	-1.34016	-.060423	-1431.95	8.791268	.3112960	-80.8376
#2	-.144531	-1.42057	-.067273	-1427.35	10.00210	.2220406	65.47884
#3	-.491058	-1.06676	6.828839	-1423.72	13.69274	.2157895	83.17471
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.435080	4.106097	.1962456	.3453668	1.359624	2.208031	-.873560
SDEV	.294935	.193767	.1835314	.1597926	.776228	.998451	1.084445
%RSD	67.78863	4.718996	93.52128	46.26751	57.09135	45.21906	124.1408
#1	-.523485	4.322386	.3567373	.5043842	1.663444	1.429811	-.088571
#2	-.675701	3.948355	.2358562	.1848101	1.937987	1.860471	-.421150
#3	-.106053	4.047552	-.003857	.3469062	.4774402	3.333813	-2.11096
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.94057	2.171319	.9518713	2.790658	1.914641	-1.18288	.5699629
SDEV	2.40313	3.063760	.4838475	2.300031	.449028	2.53242	2.038871
%RSD	123.8367	141.1013	50.83118	82.41894	23.45235	214.0898	357.7199
#1	-2.70589	2.552368	1.217113	.6192817	1.831932	.5196974	-.754033
#2	-3.86783	5.026731	.3934060	2.551965	1.512717	.0247383	2.917864
#3	.7520226	-1.06514	1.245095	5.200728	2.399274	-4.09307	-.453943
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.357254	.1165113	4807.466
SDEV	.893862	.2360635	56.482
%RSD	65.85811	202.6098	1.174881
#1	2.379651	.3308432	4765.133
#2	.9686030	-.136505	4785.667
#3	.7235089	.1551959	4871.600
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-16RE1 OPERATOR:
RUN TIME: 06/02/10 18:24:06
COMMENT: SDG:1005129 CLIENTID:SB59-9-10 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.657448	59038.11	66.49510	.7756721	1099.318	-.963089	-6.64252
SDEV	.095645	393.52	.68401	.1456292	11.495	.281627	.54084
%RSD	14.54786	.6665520	1.028662	18.77458	1.045661	29.24206	8.142070
#1	-.573963	58784.21	67.06256	.9429622	1086.126	-.642938	-6.30931
#2	-.636577	59491.42	66.68714	.7068057	1107.183	-1.17257	-6.35171
#3	-.761805	58838.70	65.73560	.6772486	1104.646	-1.07376	-7.26655
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	110.2690	14.69347	64600.20	4486.535	3562.099	66.11494	575.4518
SDEV	2.5041	.30556	813.48	37.480	41.035	1.19671	29.6802
%RSD	2.270938	2.079535	1.259258	.8353779	1.151979	1.810049	5.157722
#1	107.3805	14.35575	63677.97	4516.811	3516.105	64.73364	593.3510
#2	111.8278	14.95078	65215.81	4498.178	3594.958	66.83929	591.8128
#3	111.5988	14.77388	64906.84	4444.616	3575.233	66.77189	541.1915
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.08240	-8.34492	193.9303	42.97816	54.14737	5.473028	7.167231
SDEV	.97196	1.99728	3.4479	.96776	2.35120	2.615796	1.321084
%RSD	9.640115	23.93412	1.777916	2.251738	4.342218	47.79430	18.43228
#1	9.346779	-6.17840	189.9640	41.87535	51.87783	5.216259	6.356488
#2	11.18427	-8.74352	196.2126	43.37329	56.57250	2.995086	8.691658
#3	9.716162	L-10.1129	195.6142	43.68583	53.99180	8.207739	6.453546
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.08985	55.67181	53.38348	-10.6859	13.53787	17.44973	-1.42014
SDEV	1.09716	1.98042	3.46044	3.4677	3.76392	2.10194	1.51045
%RSD	3.905896	3.557306	6.482233	32.45081	27.80290	12.04567	106.3595
#1	29.05756	56.50832	49.56322	-6.99843	11.31193	19.81581	-.443054
#2	28.31409	57.09672	56.30794	-13.8812	11.41804	16.73512	-3.15986
#3	26.89789	53.41040	54.27927	-11.1781	17.88364	15.79828	-.657501
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	16.88677	819.2800	4825.311
SDEV	.79857	11.5978	24.911
%RSD	4.728974	1.415603	.5162530
#1	17.77915	806.5905	4805.267
#2	16.23943	829.3315	4817.466
#3	16.64173	821.9180	4853.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-17RE1 OPERATOR:
RUN TIME: 06/02/10 18:31:14
COMMENT: SDG:1005129 CLIENTID:SB85-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.678320	54313.31	60.79040	.3642932	1214.493	-.728074	-2.52852
SDEV	.208453	86.49	.93551	.1778626	12.187	.267493	.50103
%RSD	30.73075	.1592516	1.538906	48.82402	1.003467	36.73985	19.81495
#1	-.573963	54348.88	59.76588	.2205198	1226.089	-.421531	-1.95482
#2	-.918341	54376.35	61.00608	.3091680	1215.599	-.848543	-2.75078
#3	-.542656	54214.70	61.59922	.5631917	1201.790	-.914150	-2.87998
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	47.08033	6.749024	7368.735	97.20812	1555.766	27.81784	479.0935
SDEV	1.75920	.265716	55.765	20.25372	10.031	.42816	38.8470
%RSD	3.736600	3.937100	.7567796	20.83542	.6447511	1.539169	8.108428
#1	47.86595	7.006333	7431.538	79.39562	1567.304	28.20938	444.7864
#2	48.30982	6.765106	7349.645	92.98998	1549.114	27.88350	471.2201
#3	45.06520	6.475632	7325.021	119.2387	1550.881	27.36064	521.2741
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.888924	-3.57956	68.94258	25.60675	34.75000	2.602433	10.67024
SDEV	.731727	2.17322	.86665	.86630	1.14207	1.971247	2.67414
%RSD	7.399456	60.71194	1.257061	3.383100	3.286533	75.74631	25.06167
#1	10.12242	-3.50432	69.77348	26.59759	35.44046	3.621977	13.22101
#2	10.47540	-5.78943	69.01013	25.23038	35.37779	3.855107	10.90190
#3	9.068944	-1.44494	68.04413	24.99230	33.43174	.3302161	7.887804
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.390697	39.24803	32.50143	-16.0602	11.91717	13.67871	-.632875
SDEV	1.995556	1.14874	2.19889	.7452	2.85495	2.46473	1.597991
%RSD	143.4933	2.926876	6.765508	4.640167	23.95662	18.01876	252.4971
#1	2.556972	39.36692	33.47724	-15.2069	13.01970	11.24934	-2.04229
#2	2.528633	38.04446	34.04353	-16.5833	14.05646	13.60944	-.959546
#3	-.913515	40.33270	29.98351	-16.3903	8.675354	16.17734	1.103210
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.807068	545.8334	4641.822
SDEV	.781401	5.8295	9.135
%RSD	43.24136	1.068008	.1967891
#1	1.473723	551.2999	4641.999
#2	1.247623	546.5020	4650.866
#3	2.699859	539.6984	4632.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-18RE1 OPERATOR:
RUN TIME: 06/02/10 18:38:23
COMMENT: SDG:1005129 CLIENTID:SB89-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.480042	38999.21	70.85504	-.228758	2418.235	-.583003	-2.65195
SDEV	.136464	410.45	1.26847	.122881	7.392	.116337	.23803
%RSD	28.42760	1.052452	1.790228	53.71666	.3056612	19.95470	8.975838
#1	-.573963	39471.62	71.99584	-.148025	2412.214	-.587637	-2.82083
#2	-.323506	38796.07	71.08021	-.168073	2426.485	-.696954	-2.37971
#3	-.542656	38729.96	69.48907	-.370177	2416.008	-.464419	-2.75532
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	40.31076	8.898634	18066.24	-415.609	1196.055	60.45228	412.9046
SDEV	.55581	.080944	137.27	7.106	9.969	.31490	21.6960
%RSD	1.378806	.9096217	.7597959	1.709858	.8334851	.5209136	5.254474
#1	39.73983	8.887912	17916.34	-408.725	1185.634	60.09736	428.2676
#2	40.85010	8.984405	18185.79	-415.184	1205.500	60.56126	388.0855
#3	40.34235	8.823586	18096.60	-422.918	1197.031	60.69822	422.3608
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.94487	-4.12989	54.30313	27.21120	35.12524	1.738070	8.907497
SDEV	.96596	3.34739	.55564	.68890	.88972	1.459694	1.958580
%RSD	6.926987	81.05264	1.023213	2.531683	2.532983	83.98363	21.98799
#1	14.79273	-4.06184	54.12154	26.61058	34.71014	2.692364	8.036923
#2	14.14858	-.817050	53.86101	27.96320	36.14665	.0577191	11.15044
#3	12.89331	-7.51079	54.92685	27.05981	34.51894	2.464126	7.535132
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.789832	40.55979	32.40927	-13.5210	9.353682	15.28842	-.732706
SDEV	.382562	2.92628	2.61785	4.5687	.888049	2.40274	1.157334
%RSD	10.09443	7.214726	8.077466	33.78943	9.494107	15.71606	157.9533
#1	3.430806	43.61912	30.25954	-9.08244	8.568459	16.99124	-2.00124
#2	4.192233	37.78775	35.32455	-18.2095	9.175156	16.33397	.2656185
#3	3.746458	40.27250	31.64372	-13.2710	10.31743	12.54005	-.462497
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.912522	556.0262	4898.066
SDEV	1.278540	6.3908	33.413
%RSD	66.85098	1.149379	.6821618
#1	3.153222	562.6295	4872.999
#2	1.985109	555.5776	4885.200
#3	.5992351	549.8715	4935.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-19RE1 OPERATOR:
RUN TIME: 06/02/10 18:45:31
COMMENT: SDG:1005129 CLIENTID:SB89-6.5-7.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.511349	52765.86	106.5149	.5617221	4456.157	-.941520	-4.00558
SDEV	.219149	435.83	1.6080	.1925021	52.602	.142189	.19368
%RSD	42.85715	.8259759	1.509621	34.26998	1.180435	15.10209	4.835341
#1	-.667884	53215.01	105.1840	.3621283	4509.917	-1.01370	-3.79057
#2	-.260892	52344.69	106.0591	.5767912	4453.759	-1.03314	-4.16639
#3	-.605270	52737.86	108.3015	.7462468	4404.795	-.777718	-4.05979
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	79.20229	10.13158	27967.75	2763.704	2415.787	41.25956	480.7348
SDEV	.95647	.32971	86.76	48.336	10.973	.12947	44.3605
%RSD	1.207628	3.254293	.3102154	1.748965	.4542291	.3137890	9.227636
#1	80.09888	10.46394	28056.37	2727.563	2426.546	41.36893	461.7269
#2	79.31250	10.12622	27963.91	2744.941	2416.203	41.11661	531.4320
#3	78.19549	9.804579	27882.98	2818.609	2404.611	41.29314	449.0457
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.070484	-4.86410	133.3970	23.61229	49.51344	2.649206	10.07778
SDEV	.167926	3.36325	1.4932	.29650	.62109	1.991837	.99635
%RSD	1.851344	69.14442	1.119399	1.255715	1.254385	75.18619	9.886586
#1	9.256095	-.995781	135.0980	23.51635	50.20245	.6481298	10.49126
#2	8.929092	-6.50066	132.7908	23.94488	49.34127	2.667815	10.80083
#3	9.026266	-7.09585	132.3022	23.37563	48.99659	4.631673	8.941267
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	51.66964	49.93238	49.30138	-15.7411	11.82801	16.48072	-1.03598
SDEV	.54410	1.32496	1.53051	6.6356	1.84999	.46661	1.03203
%RSD	1.053038	2.653506	3.104391	42.15469	15.64076	2.831269	99.61877
#1	51.04272	48.46542	51.06678	-23.3835	12.64339	16.98233	.0972939
#2	51.94746	51.04208	48.48925	-11.4436	9.710403	16.40025	-1.92176
#3	52.01875	50.28964	48.34812	-12.3962	13.13026	16.05957	-1.28347
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	6.686127	671.7146	4708.822
SDEV	.529217	7.5007	36.956
%RSD	7.915148	1.116652	.7848296
#1	6.091466	672.5291	4739.999
#2	7.105336	678.7748	4718.466
#3	6.861579	663.8398	4667.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005129-20RE1 OPERATOR:
RUN TIME: 06/02/10 18:52:39
COMMENT: SDG:1005129 CLIENTID:SB78-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.553092	87221.82	290.9422	.3732135	13898.13	-.203403	-3.75278
SDEV	.157575	1695.80	3.4861	.3023293	185.75	.318625	.60792
%RSD	28.48994	1.944236	1.198224	81.00706	1.336505	156.6473	16.19911
#1	-.386120	88912.79	294.9664	.7131691	14080.93	.1521273	-3.23856
#2	-.573963	87231.43	289.0179	.1344926	13903.89	-.463148	-3.59607
#3	-.699191	85521.23	288.8424	.2719787	13709.56	-.299188	-4.42371
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	112.9391	12.48489	51788.81	2358.667	3508.815	86.49995	791.2905
SDEV	3.8274	.04913	959.66	77.093	68.077	1.77970	44.0568
%RSD	3.388927	.3935208	1.853021	3.268495	1.940160	2.057456	5.567721
#1	114.4285	12.47417	52616.73	2446.711	3572.642	87.50462	840.8517
#2	115.7979	12.53850	52012.69	2326.021	3516.639	87.55013	776.4485
#3	108.5909	12.44200	50737.00	2303.268	3437.165	84.44510	756.5714
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.56710	-8.35653	149.6086	111.9311	146.1635	4.100014	9.521119
SDEV	.25328	1.56658	4.2883	.7389	1.9342	1.365379	1.262481
%RSD	1.294412	18.74671	2.866327	.6601692	1.323283	33.30180	13.25980
#1	19.36863	-6.99051	153.0418	112.7515	146.3950	3.408136	10.91605
#2	19.85236	-8.01258	150.9821	111.3178	147.9714	5.672834	9.190374
#3	19.48030	L-10.0665	144.8018	111.7240	144.1239	3.219071	8.456932
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.53794	147.8658	145.3105	-14.4280	13.34767	17.58125	-.882931
SDEV	1.53270	1.6189	3.0666	5.2791	1.48361	2.23809	2.238382
%RSD	9.864266	1.094829	2.110372	36.58935	11.11509	12.73001	253.5172
#1	16.81446	149.7060	144.7389	-19.7138	14.94925	18.89966	-2.53436
#2	15.96132	146.6609	148.6226	-9.15558	13.07349	14.99710	1.664684
#3	13.83805	147.2307	142.5699	-14.4146	12.02029	18.84699	-1.77912
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.876922	598.6161	4926.689
SDEV	.289957	10.7998	98.775
%RSD	7.479055	1.804120	2.004903
#1	3.847633	610.3782	4815.333
#2	3.602721	596.3232	4960.999
#3	4.180412	589.1469	5003.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-BLK1 OPERATOR:
RUN TIME: 06/02/10 18:59:48
COMMENT: SDG:1005068 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.302635	-32.9924	-.075921	-.842724	412.1234	-1.06713	-4.90182
SDEV	.251108	7.0465	.092906	.171782	18.7459	.17666	.46316
%RSD	82.97386	21.35799	122.3717	20.38413	4.548615	16.55444	9.448698
#1	-.041743	-40.6481	.0246736	-1.03682	432.8722	-1.24659	-5.40491
#2	-.323506	-26.7779	-.158499	-.781095	407.0900	-.893417	-4.49315
#3	-.542656	-31.5514	-.093938	-.710259	396.4081	-1.06139	-4.80740
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3664982	-1.39912	4.254884	L-1438.56	5.531626	.2131080	72.23095
SDEV	.3797055	.16427	9.830393	7.74	3.434500	.0863303	91.04364
%RSD	103.6036	11.74065	231.0379	.5380846	62.08844	40.51013	126.0452
#1	.1000311	-1.51706	.5326595	L-1431.00	8.255225	.2050486	173.9768
#2	.8012657	-1.21150	15.40284	L-1446.47	6.666282	.3031854	44.26597
#3	.1981980	-1.46881	-3.17085	L-1438.21	1.673370	.1310900	-1.54996
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.227052	-1.11779	.1415340	1.076380	1.142354	.9284576	1.308901
SDEV	1.065538	2.39886	.3530000	.483207	.479265	1.288449	.782749
%RSD	469.2928	214.6071	249.4100	44.89183	41.95415	138.7731	59.80198
#1	-.007557	-3.88708	.5429778	.9601411	.8004649	2.246345	1.113260
#2	.7116464	.3200717	.0019774	1.607104	1.690166	.8674120	.6425297
#3	-1.38524	.2136284	-.120353	.6618946	.9364316	-.328384	2.170913
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.54137	2.161612	.6310304	-6.40119	4.585326	3.723815	-1.18081
SDEV	.64641	4.819572	2.995070	2.58948	2.839154	2.658015	1.48991
%RSD	25.43565	222.9620	474.6316	40.45314	61.91825	71.37882	126.1775
#1	-2.18433	7.599931	-2.59657	-6.63584	6.678378	5.779913	-.776380
#2	-2.15223	-1.58068	3.320647	-8.86535	5.724011	.7223452	-2.83118
#3	-3.28756	.4655816	1.169017	-3.70236	1.353590	4.669186	.0651401
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.165642	-.034157	4914.733
SDEV	.613043	.125856	100.058
%RSD	370.1005	368.4590	2.035882
#1	.0569188	-.136629	5030.266
#2	-.858878	.1063217	4856.133
#3	.3050321	-.072165	4857.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-BS1 OPERATOR:
RUN TIME: 06/02/10 19:06:57
COMMENT: SDG:1005068 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	786.7258	64925.52	1355.441	1363.415	39671.04	2094.602	659.3401
SDEV	11.8266	916.98	5.747	1.092	232.75	20.847	2.9047
%RSD	1.503272	1.412361	.4239623	.0800706	.5866877	.9952686	.4405499
#1	775.7161	65849.35	1349.415	1362.787	39406.53	2072.685	657.2976
#2	799.2277	64015.54	1356.050	1364.676	39844.50	2114.182	658.0574
#3	785.2335	64911.65	1360.859	1362.784	39762.08	2096.939	662.6654
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	558.3253	1347.661	114179.2	24257.16	19505.92	2887.110	3932.125
SDEV	4.3909	2.503	303.4	449.27	149.24	19.285	147.670
%RSD	.7864433	.1857256	.2657601	1.852124	.7651213	.6679733	3.755466
#1	562.8956	1347.784	114517.1	24704.46	19643.15	2896.657	4063.912
#2	554.1390	1350.100	113930.0	23805.94	19347.03	2864.913	3959.937
#3	557.9412	1345.098	114090.5	24261.09	19527.60	2899.759	3772.527
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	460.6846	1433.484	638.6471	1067.487	694.0258	716.2355	498.7188
SDEV	4.0163	4.751	7.8050	12.614	6.7872	4.0469	2.9086
%RSD	.8718176	.3314342	1.222109	1.181680	.9779489	.5650186	.5832210
#1	456.2380	1430.195	646.7523	1053.067	687.1097	716.2857	496.1056
#2	464.0488	1438.931	631.1817	1076.475	694.2911	712.1638	498.1983
#3	461.7671	1431.326	638.0074	1072.921	700.6764	720.2571	501.8526
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	749.6104	695.7281	693.1730	712.6111	718.0424	1681.424	-1.45155
SDEV	2.2577	13.6520	16.5822	12.2658	10.6719	3.579	2.86676
%RSD	.3011860	1.962265	2.392219	1.721252	1.486249	.2128556	197.4963
#1	751.8870	705.0427	678.1539	724.5168	712.1736	1684.767	-.466006
#2	747.3721	702.0847	690.3972	713.3022	711.5928	1681.857	.7924328
#3	749.5720	680.0569	710.9680	700.0143	730.3607	1677.648	-4.68108
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	573.3167	2521.816	5057.311
SDEV	4.9761	13.448	75.946
%RSD	.8679449	.5332730	1.501699
#1	569.2603	2536.736	4985.400
#2	578.8692	2510.628	5136.733
#3	571.8207	2518.083	5049.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-11 OPERATOR:
RUN TIME: 06/02/10 19:14:05
COMMENT: SDG:1005068 CLIENTID:SDZ-SD15 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.386120	14097.06	27.71099	.0892702	214510.8	-.614607	-.962923
SDEV	.125228	224.85	.47468	.3426481	5109.8	.076034	.859010
%RSD	32.43244	1.595043	1.712970	383.8325	2.382085	12.37111	89.20859
#1	-.260892	14021.23	27.25814	.2974798	209305.5	-.591072	-1.68470
#2	-.386120	14350.02	28.20484	.2765318	219519.5	-.553124	-.012819
#3	-.511349	13919.92	27.66999	-.306201	214707.5	-.699626	-1.19125
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	69.75699	6.046782	22373.74	3331.852	13721.36	164.1818	34146.50
SDEV	.87285	.276839	370.77	96.079	228.11	2.5525	644.54
%RSD	1.251275	4.578284	1.657170	2.883640	1.662441	1.554674	1.887577
#1	69.00128	5.928848	22093.44	3367.475	13570.06	162.0224	33977.67
#2	70.71238	5.848440	22794.15	3405.031	13983.73	166.9987	34858.66
#3	69.55730	6.363060	22233.63	3223.050	13610.29	163.5242	33603.18
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.17167	-1.50431	54.34266	65.26463	18.64126	2.850980	7.768492
SDEV	.51191	.83150	.82984	1.52896	1.32713	1.430945	.859536
%RSD	4.205766	55.27459	1.527051	2.342707	7.119290	50.19133	11.06439
#1	12.08513	-2.31075	54.23968	63.74583	18.84239	1.567974	6.834161
#2	12.72133	-.649828	55.21919	66.80355	19.85634	2.590804	7.945707
#3	11.70854	-1.55236	53.56912	65.24452	17.22505	4.394162	8.525608
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.80482	23.97370	15.97598	-12.9870	10.75564	18.61317	.0925703
SDEV	.73007	2.38402	2.08055	3.9451	.17712	.89439	1.748490
%RSD	4.931294	9.944301	13.02300	30.37737	1.646809	4.805125	1888.824
#1	15.64372	26.71509	14.90888	-16.5545	10.61316	19.64398	-.363778
#2	14.45740	22.82010	18.37357	-13.6565	10.69980	18.04308	-1.38250
#3	14.31335	22.38592	14.64548	-8.74994	10.95396	18.15244	2.023984
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	4.167395	382.4231	4953.755
SDEV	.372638	6.8497	81.819
%RSD	8.941752	1.791133	1.651649
#1	4.435955	378.3962	4958.066
#2	4.324259	390.3320	4869.866
#3	3.741969	378.5411	5033.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-DUP1 OPERATOR:
RUN TIME: 06/02/10 19:21:14
COMMENT: SDG:1005068 CLIENTID:SDZ-SD15D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.511349	15208.01	30.19981	.7338086	235525.0	-.584335	-1.54971
SDEV	.301914	124.14	.37016	.1200387	4926.5	.470928	.79494
%RSD	59.04276	.8162508	1.225717	16.35831	2.091704	80.59206	51.29610
#1	-.636577	15295.26	30.32196	.6319478	230542.8	-1.09527	-2.46223
#2	-.166971	15065.90	29.78400	.8661488	235638.4	-.490069	-1.17950
#3	-.730498	15262.88	30.49345	.7033291	240393.8	-.167670	-1.00739
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	69.53558	6.095028	22347.91	3655.546	13755.52	166.7748	33862.09
SDEV	1.53482	.234340	530.17	38.953	230.34	2.8784	130.32
%RSD	2.207247	3.844773	2.372332	1.065579	1.674504	1.725941	.3848630
#1	68.24895	6.363060	21806.57	3700.523	13521.91	163.8235	33799.51
#2	69.12339	5.993176	22371.01	3632.803	13762.23	166.9264	34011.89
#3	71.23441	5.928848	22866.15	3633.311	13982.44	169.5744	33774.85
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.87709	-4.03501	56.44276	59.92925	19.55530	2.246693	6.554184
SDEV	.55670	3.37899	1.21330	2.01507	.48725	1.727290	2.110392
%RSD	4.687213	83.74193	2.149610	3.362420	2.491667	76.88145	32.19915
#1	11.44900	-.135061	55.10358	57.61024	19.64167	1.121003	8.685132
#2	11.67584	-5.88296	56.75590	60.92392	19.03063	4.235423	6.512453
#3	12.50644	-6.08700	57.46879	61.25359	19.99359	1.383653	4.464967
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.87193	25.84226	16.41332	-9.46249	8.089939	17.65622	.3524168
SDEV	1.83821	2.95140	2.14533	6.48227	.727171	2.65053	2.280186
%RSD	12.36029	11.42081	13.07065	68.50491	8.988581	15.01188	647.0141
#1	16.42884	23.79065	17.56708	-12.9504	8.143589	14.97147	-2.24357
#2	12.84406	29.22474	13.93801	-1.98306	7.337429	20.27115	2.031055
#3	15.34291	24.51139	17.73488	-13.4540	8.788799	17.72605	1.269765
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.309940	408.3257	4718.844
SDEV	.116174	2.7579	13.633
%RSD	5.029298	.6754201	.2888969
#1	2.422573	406.7172	4713.533
#2	2.316724	406.7498	4708.667
#3	2.190522	411.5102	4734.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-MS1 OPERATOR:
RUN TIME: 06/02/10 19:28:22
COMMENT: SDG:1005068 CLIENTID:SDZ-SD15S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	46.62666	21276.72	1798.399	49.98559	210611.4	45.56446	486.0865
SDEV	.78289	232.53	35.141	.74012	3398.3	1.01040	10.6980
%RSD	1.679052	1.092890	1.954018	1.480667	1.613548	2.217511	2.200851
#1	45.72919	21419.89	1835.194	50.51411	210093.5	46.20999	494.7293
#2	47.16931	21008.42	1765.185	49.13971	207501.8	44.40004	474.1215
#3	46.98148	21401.86	1794.820	50.30294	214239.0	46.08334	489.4087
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	260.7834	251.5633	24376.32	4064.359	13814.76	651.4912	32639.99
SDEV	3.8984	1.5680	442.14	110.122	213.66	9.5029	506.88
%RSD	1.494891	.6233181	1.813792	2.709463	1.546609	1.458643	1.552927
#1	262.7540	250.0034	24654.12	4184.528	13978.19	659.9873	33149.61
#2	256.2931	251.5472	23866.47	3968.268	13572.98	641.2292	32135.91
#3	263.3032	253.1393	24608.36	4040.280	13893.10	653.2571	32634.44
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	472.6397	42.06549	543.8033	517.9885	37.00830	9.744656	376.8766
SDEV	10.4503	2.88619	7.5452	7.4006	.58626	1.785405	4.7914
%RSD	2.211058	6.861179	1.387486	1.428724	1.584143	18.32189	1.271346
#1	481.1458	42.17358	544.4769	521.6258	36.81609	8.854112	382.4042
#2	460.9742	39.12678	535.9440	509.4731	36.54226	8.579688	373.9081
#3	475.7990	44.89612	550.9892	522.8667	37.66654	11.80017	374.3176
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	50.35269	41.38144	34.82248	-3.40050	16.30485	992.0631	941.3394
SDEV	.44698	2.68561	1.16934	4.18059	1.21876	12.6158	17.7417
%RSD	.8877066	6.489891	3.357998	122.9406	7.474800	1.271676	1.884726
#1	50.86781	43.48899	33.48207	-3.35948	14.94917	996.8873	960.0895
#2	50.06716	38.35759	35.63348	-7.60144	16.65564	977.7471	924.8165
#3	50.12310	42.29773	35.35189	.7594334	17.30974	1001.555	939.1121
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	968.3910	1340.374	4798.333
SDEV	12.1553	18.191	96.730
%RSD	1.255204	1.357139	2.015905
#1	981.4766	1331.811	4693.466
#2	957.4520	1328.045	4884.066
#3	966.2446	1361.266	4817.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 06/02/10 19:35:31
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	102.8855	46335.64	910.4551	1062.768	49613.46	996.2866	1033.493
SDEV	1.1106	216.80	16.2168	5.519	531.22	6.4496	3.655
%RSD	1.079411	.4679005	1.781180	.5192674	1.070716	.6473653	.3536915
#1	104.0856	46095.88	Q894.6168	1065.970	50069.50	1002.465	1037.383
#2	102.6767	46393.19	909.7228	1065.939	49740.72	989.5964	1030.130
#3	101.8941	46517.88	927.0256	1056.396	49030.18	996.7980	1032.965
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	996.7139	1017.366	25546.23	50059.07	50496.33	1030.863	48423.72
SDEV	8.7626	3.203	117.89	766.37	65.20	6.622	297.48
%RSD	.8791476	.3148627	.4614609	1.530932	.1291152	.6424068	.6143262
#1	1005.990	1019.231	25682.33	49298.82	50571.42	1038.286	48196.32
#2	995.5761	1019.199	25480.20	50047.00	50454.14	1028.738	48314.46
#3	988.5759	1013.667	25476.16	50831.41	50463.42	1025.563	48760.38
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	997.8743	1018.019	1001.248	1103.732	995.1092	1019.910	1018.002
SDEV	3.7182	10.300	11.511	11.975	7.8936	4.050	4.711
%RSD	.3726101	1.011791	1.149625	1.084920	.7932394	.3970826	.4627675
#1	1000.642	1017.090	1014.539	1117.006	1003.700	1017.253	1012.630
#2	993.6479	1008.214	994.5747	1100.447	988.1767	1017.906	1021.427
#3	999.3333	1028.752	994.6299	1093.743	993.4506	1024.571	1019.949
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1044.143	992.3252	996.4962	1031.233	1014.255	1058.953	999.1827
SDEV	3.980	8.0673	7.8422	7.099	4.979	6.259	7.5512
%RSD	.3811503	.8129668	.7869821	.6883846	.4909236	.5910338	.7557396
#1	1039.635	1000.720	1005.186	1023.036	1014.363	1066.175	991.4992
#2	1045.624	984.6305	989.9442	1035.296	1009.222	1055.571	999.4547
#3	1047.170	991.6257	994.3590	1035.367	1019.179	1055.113	1006.594
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1040.095	997.2296	4947.111
SDEV	6.202	3.0980	54.483
%RSD	.5962694	.3106590	1.101303
#1	1039.947	1000.472	4996.933
#2	1033.969	996.9172	4955.466
#3	1046.370	994.2996	4888.933
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 06/02/10 19:42:39
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.553092	-31.7934	-.158296	-.828920	373.5611	-.343206	-2.91659
SDEV	.862130	5.4165	.074788	.158538	2.5253	.071300	.05455
%RSD	155.8747	17.03641	47.24601	19.12582	.6759951	20.77470	1.870199
#1	.0208714	-25.9972	-.101544	-.678526	372.0204	-.284593	-2.90951
#2	-.135664	-32.6565	-.130301	-.813726	372.1875	-.422583	-2.86593
#3	-1.54448	-36.7265	-.243043	-.994507	376.4754	-.322443	-2.97433
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1667984	-1.47417	-.335445	-1443.07	-1.06447	.1007215	-82.8825
SDEV	.3889897	.35025	4.768344	7.36	1.54308	.1020457	124.9236
%RSD	233.2094	23.75912	1421.496	.5100012	144.9623	101.3147	150.7237
#1	-.232889	-1.75828	-3.08733	-1438.98	.0817525	.0418987	10.54595
#2	.1891594	-1.58138	-3.08957	-1438.67	-.456173	.0417121	-34.4167
#3	.5441253	-1.08285	5.170564	-1451.57	-2.81900	.2185537	-224.777
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.337852	.4881041	-.323189	.9182939	-.311997	.7404821	-1.43931
SDEV	.390965	.9463388	1.151472	.1758110	.798099	.6213053	2.24187
%RSD	115.7207	193.8805	356.2848	19.14539	255.8029	83.90552	155.7603
#1	-.456097	1.563490	.1016793	.8127857	-.724431	.0245632	-3.49403
#2	-.656045	-.217565	.5554790	1.121250	-.819493	1.138634	-1.77559
#3	.0985861	.1183877	-1.62672	.8208464	.6079316	1.058249	.9517082
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.277751	-1.29496	.1762914	-2.72188	2.466611	-1.33808	-1.26958
SDEV	.730466	5.10934	3.717375	4.16590	2.340333	1.93037	2.98434
%RSD	262.9934	394.5543	2108.653	153.0522	94.88049	144.2647	235.0656
#1	-.714220	2.664091	-2.41859	-2.05975	1.062717	-2.77889	1.157844
#2	-.684578	.5136146	-1.48748	1.073297	1.168816	.8552121	-.365032
#3	.5655454	-7.06260	4.434951	-7.17920	5.168300	-2.09055	-4.60155
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.8082805	.1032397	4916.733
SDEV	.5339451	.1970180	65.612
%RSD	66.05938	190.8355	1.334467
#1	1.215534	-.098847	4951.266
#2	1.005535	.1138021	4957.866
#3	.2037724	.2947641	4841.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-MSD1 OPERATOR:
RUN TIME: 06/02/10 19:49:48
COMMENT: SDG:1005068 CLIENTID:SDZ-SD15SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	47.49283	22615.61	1781.503	50.21356	231457.8	46.13578	487.8571
SDEV	.14117	53.63	17.047	.17298	1975.7	.21125	.2223
%RSD	.2972493	.2371531	.9569142	.3444906	.8535905	.4578902	.0455691
#1	47.63892	22554.06	1793.901	50.30416	230990.3	46.32637	487.8287
#2	47.48239	22652.35	1762.062	50.32242	233625.3	45.90864	488.0922
#3	47.35716	22640.41	1788.545	50.01409	229757.8	46.17235	487.6503
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	265.4547	253.9970	25626.19	4404.407	14617.16	660.1520	35221.00
SDEV	1.0002	.6146	72.52	42.487	16.41	.7568	164.38
%RSD	.3767704	.2419530	.2829816	.9646564	.1122381	.1146396	.4667208
#1	264.4923	254.5706	25627.14	4402.423	14605.26	659.6818	35063.94
#2	266.4888	254.0721	25698.22	4362.947	14635.87	659.7492	35207.20
#3	265.3831	253.3484	25553.20	4447.852	14610.34	661.0250	35391.84
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	476.1565	41.69845	549.3899	529.5111	38.36424	13.39126	367.3618
SDEV	2.3572	4.65084	1.9631	2.3430	.77610	1.55095	.8729
%RSD	.4950444	11.15352	.3573157	.4424766	2.022980	11.58183	.2376133
#1	478.8171	40.86955	547.8237	531.3222	37.68737	14.47775	368.3676
#2	475.3233	37.51778	551.5921	530.3461	39.21132	11.61509	366.9158
#3	474.3291	46.70801	548.7540	526.8650	38.19402	14.08094	366.8021
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	53.82990	42.75239	36.17097	-1.84483	20.99540	991.9575	936.5685
SDEV	1.01110	3.35331	2.60553	2.09316	1.55885	4.1748	7.3269
%RSD	1.878325	7.843566	7.203375	113.4610	7.424702	.4208646	.7823091
#1	53.43980	46.59920	33.23568	.4335069	21.48688	996.1081	944.9985
#2	53.07196	41.21143	38.21030	-3.68271	19.25005	992.0056	932.9741
#3	54.97794	40.44655	37.06695	-2.28527	22.24928	987.7589	931.7330
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	968.8563	1379.748	4889.022
SDEV	2.2359	13.210	31.350
%RSD	.2307814	.9574149	.6412296
#1	967.4515	1364.515	4910.133
#2	971.4346	1388.049	4903.933
#3	967.6826	1386.681	4852.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005068-11 OPERATOR:
RUN TIME: 06/02/10 19:56:57
COMMENT: SDG:1005068 CLIENTID:SDZ-SD15L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.229585	2862.276	5.591436	-.300741	42008.93	-.916019	-3.62321
SDEV	.136464	99.328	.264834	.370494	260.04	.139341	.30838
%RSD	59.43954	3.470228	4.736417	123.1939	.6190020	15.21153	8.511224
#1	-.166971	2964.285	5.862018	.0314633	42308.41	-1.07433	-3.95188
#2	-.135664	2856.677	5.579538	-.233398	41840.41	-.861765	-3.57754
#3	-.386120	2765.867	5.332752	-.700287	41877.96	-.811966	-3.34022
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.73672	-.209064	4629.560	-450.965	2938.151	33.36207	6969.405
SDEV	.36098	.122827	50.711	42.008	57.423	.29318	197.556
%RSD	2.627852	58.75102	1.095367	9.315160	1.954395	.8787749	2.834614
#1	13.54812	-.343080	4669.839	-412.656	2988.794	33.48129	7171.234
#2	14.15293	-.101852	4646.227	-444.353	2949.895	33.57685	6960.561
#3	13.50910	-.182261	4572.613	-495.888	2875.764	33.02806	6776.420
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.318728	-1.73565	10.92749	14.19458	4.249909	.6258711	.9670677
SDEV	.091453	2.06015	.31042	.47122	.915059	1.002585	1.551956
%RSD	3.944097	118.6961	2.840751	3.319709	21.53127	160.1903	160.4806
#1	2.334432	-3.49429	11.25015	13.75961	3.986712	-.523835	-.811443
#2	2.220439	-2.24363	10.63096	14.69517	3.495292	1.318237	2.046692
#3	2.401311	.5309699	10.90136	14.12897	5.267724	1.083211	1.665955
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.579002	6.583378	3.082115	-3.97402	2.919871	2.452016	.7558833
SDEV	1.373624	1.890936	1.956467	.66551	1.225927	.394182	1.126468
%RSD	86.99315	28.72288	63.47806	16.74641	41.98565	16.07583	149.0267
#1	.3033197	8.736353	1.612544	-4.68119	1.549143	2.875831	1.725049
#2	3.033127	5.821790	2.330955	-3.88088	3.911379	2.096354	1.022612
#3	1.400561	5.191990	5.302845	-3.35999	3.299091	2.383864	-.480011
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.539379	77.87241	4844.822
SDEV	1.113745	1.01637	192.838
%RSD	72.35026	1.305176	3.980291
#1	2.113531	78.89323	4677.667
#2	2.248893	77.86346	4800.999
#3	.2557142	76.86055	5055.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051814-PS1 OPERATOR:
RUN TIME: 06/02/10 20:04:05
COMMENT: SDG:1005068 CLIENTID:SDZ-SD15A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.67258	14446.41	341.6938	9.156559	215419.9	7.937797	87.69858
SDEV	.33132	57.45	3.1798	.086695	3847.7	.244428	1.91817
%RSD	2.258109	.3976792	.9306027	.9468100	1.786128	3.079294	2.187232
#1	14.54735	14382.98	345.2495	9.161636	211048.1	7.658273	85.69634
#2	15.04827	14494.96	340.7090	9.240603	218291.7	8.043727	89.51986
#3	14.42212	14461.27	339.1230	9.067436	216919.8	8.111392	87.87954
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	86.73117	51.37085	22530.29	3299.186	13654.68	190.6909	33863.80
SDEV	1.39423	.15200	298.17	28.945	146.31	2.6284	45.28
%RSD	1.607536	.2958885	1.323399	.8773392	1.071506	1.378345	.1337037
#1	85.31323	51.48878	22212.50	3332.016	13492.07	187.6655	33916.06
#2	88.10042	51.19931	22803.91	3288.195	13775.69	192.4118	33839.11
#3	86.77987	51.42445	22574.46	3277.346	13696.27	191.9955	33836.23
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	80.77982	12.43936	141.3811	98.89761	24.47074	8.948681	106.7182
SDEV	1.17629	1.91599	2.4342	2.64433	1.51354	2.080779	2.0123
%RSD	1.456162	15.40264	1.721746	2.673803	6.185094	23.25235	1.885595
#1	79.66757	12.32855	139.1075	95.86235	23.29740	10.82476	104.8397
#2	80.66080	14.40836	143.9492	100.7031	26.17913	9.310593	106.4731
#3	82.01109	10.58119	141.0868	100.1273	23.93570	6.710687	108.8418
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.00444	24.91486	24.24595	-10.1373	18.47491	17.59598	-1.71503
SDEV	1.35221	2.92482	1.30401	2.9755	1.72295	1.41445	2.34512
%RSD	4.225071	11.73925	5.378264	29.35205	9.325905	8.038494	136.7398
#1	30.48340	24.35507	22.76630	-7.00066	19.72167	16.44113	-3.71237
#2	32.45952	28.07912	25.22749	-10.4912	19.19421	19.17362	.8671788
#3	33.07040	22.31040	24.74406	-12.9200	16.50887	17.17319	-2.29990
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.034548	388.1871	4937.889
SDEV	.332911	1.6354	19.180
%RSD	10.97068	.4212821	.3884305
#1	2.669205	386.4159	4959.999
#2	3.320770	389.6397	4927.933
#3	3.113670	388.5059	4925.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-01 OPERATOR:
RUN TIME: 06/02/10 20:11:13
COMMENT: SDG:1005068 CLIENTID:SDZ-SD04 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.699191	35028.13	52.39766	1.588141	245710.2	-.269162	1.747011
SDEV	.205294	529.95	.07817	.137030	4508.6	.188006	.529640
%RSD	29.36167	1.512934	.1491908	8.628309	1.834916	69.84866	30.31690
#1	-.918341	35612.05	52.42059	1.643161	244450.0	-.480910	1.218306
#2	-.667884	34577.65	52.31059	1.689109	241965.8	-.121837	1.745146
#3	-.511349	34894.69	52.46180	1.432152	250714.8	-.204739	2.277581
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	119.1337	15.85672	52153.08	8698.344	20764.55	325.5887	33846.84
SDEV	2.3215	.29885	648.63	200.591	219.78	3.9688	248.96
%RSD	1.948621	1.884706	1.243706	2.306083	1.058446	1.218968	.7355380
#1	119.6137	15.99610	52120.78	8918.163	20837.07	325.4296	34122.09
#2	116.6098	15.51364	51521.20	8651.649	20517.67	321.7018	33637.39
#3	121.1776	16.06043	52817.26	8525.218	20938.90	329.6346	33781.03
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	29.64083	-7.55975	119.5629	106.3826	30.18395	3.903142	5.912698
SDEV	1.18651	1.62074	2.3525	2.4122	.23325	1.828522	1.571710
%RSD	4.002975	21.43912	1.967564	2.267479	.7727757	46.84745	26.58194
#1	30.39749	-5.78469	120.2165	105.0866	30.31226	4.087029	4.900283
#2	28.27335	-8.96079	116.9527	104.8954	30.32489	1.989624	5.114477
#3	30.25164	-7.93377	121.5195	109.1658	29.91471	5.632773	7.723334
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	33.96558	34.62008	27.96605	-9.04875	10.36685	18.52167	.8959823
SDEV	1.66095	2.36467	1.06031	3.92435	4.09026	2.60452	.4478121
%RSD	4.890106	6.830347	3.791415	43.36900	39.45518	14.06203	49.98002
#1	34.16685	33.12374	28.90542	-13.1544	12.69227	17.25120	1.382200
#2	32.21316	37.34623	26.81633	-5.33517	5.644007	21.51761	.5004596
#3	35.51672	33.39027	28.17640	-8.65664	12.76426	16.79619	.8052874
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	17.43993	892.5919	4787.755
SDEV	.34264	8.6809	54.987
%RSD	1.964685	.9725503	1.148485
#1	17.13971	893.7277	4725.733
#2	17.36688	883.3990	4806.999
#3	17.81320	900.6490	4830.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-02 OPERATOR:
RUN TIME: 06/02/10 20:18:22
COMMENT: SDG:1005068 CLIENTID:SDZ-SD10 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.918341	27077.85	43.17015	.6600610	27902.59	-.519473	.6671441
SDEV	.093921	440.49	.44253	.1735194	96.68	.377501	.4172768
%RSD	10.22727	1.626739	1.025093	26.28839	.3464824	72.67006	62.54673
#1	-.824419	27555.76	43.57785	.7963716	28012.25	-.881358	.8361974
#2	-1.01226	26989.67	43.23309	.7190810	27865.82	-.128086	.9733677
#3	-.918341	26688.13	42.69952	.4647304	27829.69	-.548975	.1918673
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	117.2602	10.41033	47424.74	6746.614	15513.60	323.0091	41851.31
SDEV	.8031	.25798	174.09	124.828	79.96	2.0701	393.72
%RSD	.6849021	2.478108	.3670957	1.850230	.5154255	.6408685	.9407574
#1	117.0754	10.14230	47625.34	6867.552	15605.00	325.2036	42244.64
#2	116.5656	10.43177	47335.68	6754.061	15479.23	321.0913	41852.09
#3	118.1396	10.65692	47313.19	6618.230	15456.58	322.7325	41457.21
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.56161	L-12.4993	116.9873	96.93407	24.07864	4.132337	7.385466
SDEV	.65173	2.5386	1.4513	.38414	2.00191	1.618335	.327428
%RSD	2.281852	20.30977	1.240561	.3962949	8.314030	39.16271	4.433408
#1	27.89395	-9.83909	118.5514	96.69350	22.62710	4.864469	7.297204
#2	28.59470	L-12.7633	115.6842	97.37710	26.36242	5.255229	7.747977
#3	29.19616	L-14.8956	116.7262	96.73161	23.24641	2.277313	7.111216
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	23.67623	26.72091	22.75652	-8.13393	10.25390	30.72222	-.619811
SDEV	1.51953	.56757	3.09114	1.42201	1.71639	1.28665	.783785
%RSD	6.417960	2.124077	13.58355	17.48243	16.73891	4.188024	126.4553
#1	25.38673	26.34336	20.76875	-7.47352	11.02181	31.75924	-.676338
#2	23.15952	26.44576	26.31784	-7.16221	11.45226	29.28234	-1.37380
#3	22.48244	27.37362	21.18296	-9.76606	8.287623	31.12506	.1907063
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	44.74622	892.5575	5091.311
SDEV	.08200	3.2051	59.398
%RSD	.1832595	.3590936	1.166664
#1	44.72221	895.0831	5037.533
#2	44.83754	888.9519	5081.333
#3	44.67890	893.6375	5155.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-03 OPERATOR:
RUN TIME: 06/02/10 20:25:30
COMMENT: SDG:1005068 CLIENTID:SDZ-SD01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.782677	65525.27	76.34309	2.441292	9782.341	-.451952	.5629272
SDEV	.321311	171.09	.33970	.200698	35.241	.254174	.4636202
%RSD	41.05281	.2610994	.4449654	8.220969	.3602489	56.23914	82.35882
#1	-.511349	65354.06	76.67261	2.413730	9746.144	-.231832	.1101618
#2	-.699191	65525.50	76.36262	2.255801	9816.540	-.393889	.5419312
#3	-1.13749	65696.23	75.99405	2.654347	9784.340	-.730133	1.036689
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	166.4686	38.11403	95488.93	11119.62	19451.03	377.2332	24767.96
SDEV	.8576	.14592	518.90	150.58	109.97	2.9461	132.84
%RSD	.5151556	.3828603	.5434121	1.354141	.5653846	.7809800	.5363480
#1	167.2015	38.09259	95099.41	11049.75	19359.25	378.2437	24827.47
#2	165.5255	38.26949	95289.41	11016.68	19420.91	373.9149	24615.77
#3	166.6788	37.98001	96077.98	11292.44	19572.92	379.5412	24860.65
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	43.56558	L-10.7761	157.6592	218.5903	89.83415	3.789258	6.358541
SDEV	.42070	2.2804	1.2641	.7465	1.31652	.986394	.992393
%RSD	.9656717	21.16120	.8018123	.3414889	1.465497	26.03132	15.60725
#1	43.38930	L-10.6492	156.8839	218.1868	88.56902	3.085309	7.009845
#2	44.04574	-8.56191	156.9757	218.1323	89.73676	3.365787	5.216374
#3	43.26169	L-13.1173	159.1179	219.4516	91.19665	4.916677	6.849404
ERRORS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.12313	88.55994	90.46782	-11.7796	11.55954	19.41818	1.565340
SDEV	2.70705	5.73661	2.76557	3.1558	.09881	1.54378	.337654
%RSD	7.493966	6.477662	3.056971	26.79046	.8547683	7.950183	21.57064
#1	33.06598	89.76645	87.96875	-13.9936	11.60950	21.00961	1.479948
#2	38.21610	82.31603	93.43909	-13.1792	11.62340	17.92692	1.278580
#3	37.08729	93.59734	89.99560	-8.16605	11.44573	19.31800	1.937492
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	12.07102	1064.609	4898.355
SDEV	.31354	5.433	42.833
%RSD	2.597467	.5102969	.8744301
#1	11.99581	1058.352	4925.800
#2	11.80193	1067.353	4920.266
#3	12.41533	1068.122	4848.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-04 OPERATOR:
RUN TIME: 06/02/10 20:32:39
COMMENT: SDG:1005068 CLIENTID:SDZ-SD18 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.448735	4010.468	14.53861	-.141184	214884.1	-.544455	-2.39021
SDEV	.205294	60.652	.22056	.073793	4311.2	.352077	.53888
%RSD	45.74957	1.512330	1.517060	52.26714	2.006287	64.66608	22.54553
#1	-.417428	3960.084	14.28752	-.184168	211626.9	-.636884	-3.00736
#2	-.667884	3993.533	14.62726	-.055977	213252.3	-.841097	-2.15045
#3	-.260892	4077.787	14.70105	-.183409	219773.0	-.155382	-2.01280
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	42.02497	.8040935	10519.73	477.3017	8731.671	89.03271	23329.66
SDEV	.56023	.3786362	163.68	11.6872	147.138	1.54476	249.13
%RSD	1.333094	47.08858	1.555935	2.448604	1.685102	1.735046	1.067888
#1	41.45004	.8308967	10383.02	464.5299	8608.220	87.53023	23151.84
#2	42.05564	.4127679	10475.05	479.9125	8692.307	88.95138	23222.73
#3	42.56924	1.168616	10701.10	487.4627	8894.487	90.61653	23614.41
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.524365	-3.81855	21.08032	27.99666	9.288961	1.447762	8.880699
SDEV	.529705	5.02277	.33439	.81513	.643147	1.712513	.393540
%RSD	11.70783	131.5360	1.586282	2.911515	6.923777	118.2869	4.431406
#1	4.021841	-9.47232	20.98212	27.41974	8.910065	2.522432	9.085822
#2	4.473651	.1283150	20.80602	27.64107	8.925267	2.347965	9.129303
#3	5.077603	-2.11164	21.45282	28.92917	10.03155	-.527110	8.426972
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.322697	15.47332	6.198570	-16.0774	10.19466	19.26282	-.972893
SDEV	1.177155	1.72678	.269549	3.5730	1.04618	.64550	2.334389
%RSD	12.62677	11.15972	4.348568	22.22376	10.26207	3.351040	239.9430
#1	10.39820	14.95891	5.887350	-12.8460	10.19259	19.11158	1.541089
#2	9.504780	14.06220	6.357801	-15.4716	11.24187	19.97052	-3.07208
#3	8.065109	17.39885	6.350559	-19.9145	9.149509	18.70636	-1.38769
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.802290	118.9243	4779.689
SDEV	.546161	2.8861	33.077
%RSD	30.30370	2.426867	.6920327
#1	1.173787	116.9795	4814.400
#2	2.161592	117.5530	4776.133
#3	2.071491	122.2405	4748.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-05 OPERATOR:
RUN TIME: 06/02/10 20:39:47
COMMENT: SDG:1005068 CLIENTID:SDZ-SD20 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.678320	2589.344	14.33938	-.078419	138949.5	-.941735	-4.06274
SDEV	.219894	31.291	.19396	.102651	471.9	.014216	.09102
%RSD	32.41740	1.208455	1.352644	130.9010	.3396541	1.509551	2.240369
#1	-.887034	2556.192	14.11777	-.193012	138452.1	-.957859	-4.08756
#2	-.699191	2593.478	14.47825	-.047363	139005.4	-.931008	-4.13878
#3	-.448735	2618.363	14.42212	.0051182	139391.0	-.936337	-3.96189
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	41.64054	-.128655	8488.347	118.6176	5913.421	74.02410	20111.29
SDEV	.27984	.361872	30.739	21.0648	23.735	.50463	224.57
%RSD	.6720367	281.2730	.3621338	17.75855	.4013831	.6817126	1.116637
#1	41.31974	-.536062	8479.150	95.78320	5897.391	73.62725	19853.99
#2	41.83449	-.005361	8463.256	122.7775	5902.185	73.85302	20267.87
#3	41.76738	.1554580	8522.635	137.2920	5940.689	74.59203	20212.01
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.151254	-3.53727	16.95173	25.04601	10.48415	1.093283	11.76198
SDEV	.901242	.97046	.16435	.48434	1.85374	.289563	.85490
%RSD	21.71012	27.43540	.9695023	1.933810	17.68134	26.48560	7.268331
#1	3.112405	-3.61399	16.79379	25.21709	12.27805	1.027617	11.96973
#2	4.723888	-4.46710	16.93958	24.49935	10.59854	.8421926	10.82235
#3	4.617470	-2.53073	17.12182	25.42160	8.575870	1.410039	12.49385
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.00417	14.92019	8.266581	-18.1869	10.71636	18.83239	-1.14213
SDEV	1.20199	1.76784	1.920635	2.0168	.67182	1.41773	.33965
%RSD	10.01310	11.84865	23.23373	11.08906	6.269062	7.528133	29.73856
#1	13.20602	16.38490	10.22485	-17.4105	10.23032	20.25495	-.754662
#2	10.80204	15.41919	8.188951	-20.4765	11.48298	18.82268	-1.38845
#3	12.00443	12.95648	6.385937	-16.6737	10.43578	17.41954	-1.28329
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.9951284	183.8706	4728.711
SDEV	.2913037	3.3328	50.378
%RSD	29.27297	1.812567	1.065361
#1	.7588165	180.0493	4778.466
#2	1.320589	186.1759	4729.933
#3	.9059794	185.3866	4677.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-06 OPERATOR:
RUN TIME: 06/02/10 20:46:56
COMMENT: SDG:1005068 CLIENTID:SDZ-SD16 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.793112	2638.729	9.181492	-.115273	75057.10	-.800795	-2.82670
SDEV	1.007679	5.120	.147446	.270963	2459.64	.206383	.80329
%RSD	127.0538	.1940513	1.605903	235.0614	3.277022	25.77223	28.41785
#1	-1.92017	2638.657	9.334228	.1254649	72252.65	-.855195	-3.75425
#2	.0208714	2643.884	9.039977	-.062568	76070.59	-.974528	-2.36578
#3	-.480042	2633.644	9.170271	-.408717	76848.05	-.572661	-2.36007
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.65834	-.176900	6560.390	444.4700	5843.478	43.22785	25276.12
SDEV	2.51867	.383725	212.504	29.3634	114.981	1.60616	162.07
%RSD	7.712192	216.9157	3.239193	6.606396	1.967681	3.715579	.6412083
#1	29.80119	-.616472	6321.056	473.4550	5712.256	41.46669	25326.58
#2	33.61660	.0911311	6633.183	445.2129	5891.590	43.60493	25406.97
#3	34.55725	-.005361	6726.932	414.7422	5926.588	44.61192	25094.82
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.014123	-4.30176	12.24804	21.38433	8.595000	1.271183	8.003306
SDEV	1.009531	3.24663	1.29287	1.85894	1.011368	1.742631	1.590444
%RSD	33.49337	75.47207	10.55573	8.693021	11.76694	137.0874	19.87233
#1	2.006354	-7.91103	10.75989	19.26263	8.518030	-.194398	6.244139
#2	4.025407	-1.61938	13.09488	22.16324	9.642654	.8098962	8.426263
#3	3.010606	-3.37486	12.88936	22.72711	7.624316	3.198049	9.339518
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.710105	14.15152	5.818064	-17.5148	10.64758	21.76163	-1.55017
SDEV	1.657561	2.46629	.638114	1.7994	1.74298	4.97036	2.77492
%RSD	35.19159	17.42772	10.96781	10.27334	16.36976	22.84002	179.0074
#1	3.090141	12.81896	6.367892	-19.2871	9.335045	16.08617	-4.49329
#2	4.637312	16.99743	5.967952	-17.5679	9.982513	23.86024	1.018528
#3	6.402864	12.63817	5.118349	-15.6895	12.62518	25.33849	-1.17575
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.9011428	81.51911	4790.889
SDEV	.3807253	.93664	84.379
%RSD	42.24916	1.148986	1.761241
#1	1.334943	80.48322	4697.999
#2	.7460076	82.30631	4811.866
#3	.6224780	81.76781	4862.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-07 OPERATOR:
RUN TIME: 06/02/10 20:54:04
COMMENT: SDG:1005068 CLIENTID:SDZ-SD19 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.553092	8208.400	18.44908	.0784744	134888.2	-.652749	-2.20262
SDEV	.100638	141.611	.23258	.2384369	2285.8	.097232	.42107
%RSD	18.19557	1.725191	1.260660	303.8401	1.694562	14.89583	19.11675
#1	-.480042	8056.817	18.30211	.1329824	132550.3	-.667909	-2.33662
#2	-.511349	8337.300	18.71723	.2849378	137118.0	-.548827	-1.73086
#3	-.667884	8231.083	18.32790	-.182497	134996.1	-.741511	-2.54039
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	51.91676	7.043858	15723.55	1927.857	9660.990	95.75143	29564.71
SDEV	1.00445	.293174	210.76	47.604	127.781	1.74358	422.05
%RSD	1.934741	4.162116	1.340399	2.469253	1.322645	1.820939	1.427536
#1	50.82335	6.990252	15530.90	1892.813	9556.312	93.85987	29240.18
#2	52.12839	6.781187	15948.65	1982.054	9803.384	97.29433	30041.83
#3	52.79853	7.360136	15691.09	1908.705	9623.275	96.10008	29412.13
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.564590	-7.44498	33.14310	43.60493	13.80002	1.831847	9.330331
SDEV	.367142	.80702	.22759	.28131	1.22461	1.081980	1.345047
%RSD	4.286743	10.83982	.6866924	.6451397	8.873981	59.06499	14.41585
#1	8.905827	-7.77580	32.98485	43.92972	14.15437	1.733716	8.069193
#2	8.176115	-6.52511	33.40393	43.43835	14.80838	.8022746	9.175852
#3	8.611826	-8.03402	33.04053	43.44671	12.43731	2.959549	10.74595
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.41045	17.13374	12.13281	-17.5345	11.49809	18.92949	-.897149
SDEV	1.25439	3.26893	.58813	1.5468	1.07089	1.34055	2.080161
%RSD	12.04935	19.07891	4.847460	8.821471	9.313624	7.081824	231.8635
#1	9.917122	16.88200	12.78977	-16.6593	10.91424	18.98345	1.444024
#2	9.477723	20.52127	11.95333	-19.3205	10.84602	20.24224	-1.60271
#3	11.83651	13.99796	11.65532	-16.6238	12.73402	17.56276	-2.53276
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	4.537026	217.1987	4777.733
SDEV	.846343	3.1494	56.166
%RSD	18.65415	1.450013	1.175571
#1	4.289568	214.3026	4800.267
#2	5.479516	220.5516	4713.800
#3	3.841992	216.7420	4819.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 06/02/10 21:01:13
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	101.6540	46283.33	912.6716	1070.003	49913.80	1015.542	1055.135
SDEV	1.1030	550.34	4.5695	16.888	851.67	23.112	25.037
%RSD	1.085081	1.189070	.5006698	1.578328	1.706281	2.275789	2.372865
#1	101.0488	45697.48	907.5713	1052.876	49179.62	996.0319	1027.228
#2	100.9862	46789.47	914.0510	1070.491	49714.24	1009.529	1062.552
#3	102.9272	46363.05	916.3924	1086.642	50847.52	1041.066	1075.626
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1001.346	1009.727	26026.81	50614.38	51173.80	1044.145	48361.66
SDEV	20.227	2.487	544.05	845.64	977.98	26.326	510.74
%RSD	2.019938	.2462607	2.090355	1.670749	1.911086	2.521308	1.056081
#1	978.6022	1008.103	25441.97	49713.09	50056.31	1014.246	47799.20
#2	1008.117	1008.489	26120.58	51390.40	51591.64	1054.337	48796.47
#3	1017.318	1012.590	26517.88	50739.64	51873.44	1063.851	48489.30
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1015.273	1039.683	1005.782	1136.717	1007.594	1040.363	1021.583
SDEV	17.870	25.295	20.817	30.340	14.907	16.593	12.684
%RSD	1.760153	2.432922	2.069756	2.669114	1.479498	1.594880	1.241619
#1	999.6401	1010.661	982.7737	1108.310	990.7735	1021.472	1007.989
#2	1011.424	1051.348	1023.313	1133.163	1012.838	1052.578	1023.661
#3	1034.754	1057.040	1011.260	1168.678	1019.171	1047.039	1033.101
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1065.254	1006.907	1007.934	1065.452	1027.835	1082.038	1009.843
SDEV	17.880	30.150	8.215	24.100	13.981	29.267	14.742
%RSD	1.678492	2.994283	.8150670	2.261964	1.360264	2.704760	1.459802
#1	1044.804	975.1201	998.5855	1037.948	1013.245	1051.006	993.0789
#2	1073.017	1010.503	1014.001	1075.534	1041.115	1085.966	1015.668
#3	1077.940	1035.097	1011.217	1082.874	1029.146	Q1109.142	1020.782
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1041.449	993.9820	4861.200
SDEV	14.607	7.6887	69.851
%RSD	1.402551	.7735251	1.436914
#1	1028.009	985.1119	4936.733
#2	1039.343	998.7448	4798.933
#3	1056.994	998.0893	4847.933
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 06/02/10 21:08:22
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.417428	-35.8305	-.018524	-.872849	377.7636	-.482757	-2.65647
SDEV	.267488	12.6867	.037568	.284610	.4638	.091481	.51715
%RSD	64.08003	35.40756	202.8112	32.60698	.1227726	18.94976	19.46763
#1	-.135664	-25.1022	.0186848	-.623053	377.6634	-.436656	-2.07338
#2	-.667884	-32.5559	-.017814	-.812802	377.3582	-.423498	-2.83643
#3	-.448735	-49.8335	-.056442	-1.18269	378.2693	-.588117	-3.05960
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.120628	-2.04240	1.819181	-1431.30	5.490967	.2717114	32.94767
SDEV	.502101	.15200	1.508314	.93	2.645811	.0989953	49.29843
%RSD	416.2399	7.442232	82.91167	.0650190	48.18479	36.43401	149.6265
#1	-.494174	-2.16033	3.330080	-1430.85	8.527978	.2214397	12.21586
#2	.4501417	-2.09600	1.813997	-1430.68	4.260107	.3857553	89.22630
#3	-.317852	-1.87086	.3134664	-1432.37	3.684817	.2079390	-2.59916
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0133665	1.075402	-.118687	.9209743	.5885687	1.625739	-.458032
SDEV	.3780252	2.623511	.350112	.0900684	1.045060	.737694	.802412
%RSD	2828.152	243.9563	294.9890	9.779682	177.5596	45.37593	175.1866
#1	.3097277	4.012829	.2351811	.9819483	1.262890	2.439823	-.743966
#2	-.412358	.2481325	-.464919	.8175220	-.615263	1.001573	.4481813
#3	.1427297	-1.03476	-.126322	.9634527	1.118079	1.435821	-1.07831
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.137653	-.213916	.9867384	2.968132	.9530774	-1.38195	1.835136
SDEV	2.862552	1.503689	.8390330	1.434594	1.822007	1.30985	.789285
%RSD	251.6192	702.9357	85.03094	48.33324	191.1710	94.78223	43.00960
#1	-2.12034	.4829228	1.649770	1.399233	2.956818	-1.73733	1.234003
#2	3.249687	-1.93961	.0434479	4.212992	-.604201	.0689099	2.728956
#3	2.283609	.8149430	1.266998	3.292172	.5066152	-2.47744	1.542448
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.141273	.0993545	4892.066
SDEV	.316279	.0626600	97.086
%RSD	27.71286	63.06708	1.984570
#1	1.393901	.0364584	4796.133
#2	1.243359	.0998294	4889.800
#3	.7865581	.1617756	4990.266
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-08 OPERATOR:
RUN TIME: 06/02/10 21:15:31
COMMENT: SDG:1005068 CLIENTID:SDZ-SD21 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.480042	3018.877	13.01727	-.139895	220271.4	-.604447	-2.72405
SDEV	.136464	7.308	.19548	.061869	1365.7	.116446	.33560
%RSD	28.42760	.2420784	1.501679	44.22571	.6199955	19.26493	12.31997
#1	-.573963	3025.062	13.02819	-.141026	220807.9	-.490598	-2.35688
#2	-.323506	3020.755	12.81656	-.201191	221287.3	-.723328	-2.80029
#3	-.542656	3010.813	13.20705	-.077467	218718.9	-.599416	-3.01497
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	40.14138	-.396686	10602.84	565.4768	10051.41	87.77517	27834.70
SDEV	1.21168	.037140	93.85	5.4897	62.52	.68778	40.50
%RSD	3.018534	9.362514	.8850969	.9708046	.6219981	.7835695	.1455104
#1	40.87005	-.375243	10708.94	559.9644	10121.89	88.50715	27837.90
#2	38.74266	-.375243	10568.85	565.5223	10029.71	87.14236	27873.50
#3	40.81144	-.439571	10530.72	570.9435	10002.64	87.67600	27792.69
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.738459	-2.96127	18.98060	26.07457	8.799623	1.810973	10.02269
SDEV	.320661	1.77220	.34899	.67222	1.235013	1.679494	.66033
%RSD	8.577355	59.84581	1.838645	2.578087	14.03483	92.73987	6.588381
#1	3.704175	-2.39121	19.37957	26.85022	7.800176	-.104893	10.78274
#2	4.074885	-1.54426	18.83018	25.66106	10.18030	3.029278	9.589968
#3	3.436318	-4.94835	18.73205	25.71242	8.418390	2.508534	9.695353
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.27233	12.29034	7.053938	-16.0531	10.72701	19.82698	-1.71947
SDEV	1.03583	2.79037	.638179	3.7472	.65686	1.01129	.32662
%RSD	10.08372	22.70377	9.047124	23.34239	6.123391	5.100577	18.99513
#1	9.368366	9.489313	6.953932	-20.3566	10.00317	18.67173	-1.71932
#2	10.04601	15.06993	7.736216	-13.5125	11.28516	20.55212	-1.39293
#3	11.40261	12.31179	6.471667	-14.2902	10.89269	20.25709	-2.04616
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.408650	90.75214	4628.977
SDEV	.821330	.89526	4.741
%RSD	58.30620	.9864934	.1024160
#1	2.038883	90.57117	4628.667
#2	.4797842	91.72407	4633.866
#3	1.707282	89.96119	4624.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-09 OPERATOR:
RUN TIME: 06/02/10 21:22:40
COMMENT: SDG:1005068 CLIENTID:SDZ-SD13 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.500913	2503.056	10.84712	-.499089	77785.82	-.528797	-2.75949
SDEV	.208453	8.762	.13066	.080954	655.31	.108054	.57721
%RSD	41.61455	.3500655	1.204564	16.22037	.8424541	20.43390	20.91724
#1	-.323506	2502.474	10.99556	-.591370	78388.36	-.604894	-2.51009
#2	-.448735	2494.600	10.79625	-.440033	77088.14	-.576379	-3.41947
#3	-.730498	2512.095	10.74954	-.465865	77880.96	-.405118	-2.34892
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	33.46667	.2305067	6654.589	45.20571	4942.751	42.91287	18004.10
SDEV	.99087	.3860765	53.459	12.35874	21.744	.19970	106.66
%RSD	2.960781	167.4904	.8033400	27.33889	.4399082	.4653701	.5924211
#1	34.61019	.6700777	6698.238	33.13870	4948.967	42.68563	17993.77
#2	32.92796	.0750486	6594.963	44.64156	4918.576	43.06045	17902.99
#3	32.86185	-.053606	6670.567	57.83686	4960.709	42.99252	18115.56
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.125256	-8.46276	13.21818	21.89744	8.273576	1.547814	10.52908
SDEV	.331823	.79520	.21124	.61409	.794898	2.189897	1.94614
%RSD	10.61746	9.396498	1.598124	2.804373	9.607667	141.4832	18.48345
#1	3.508154	-8.66658	13.41970	22.49519	8.066651	.4939319	12.44653
#2	2.945991	-7.58549	12.99840	21.26823	7.602604	4.065394	8.555473
#3	2.921623	-9.13622	13.23645	21.92892	9.151473	.0841150	10.58524
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.871382	10.76296	7.027924	-16.9468	10.77872	23.27996	-.562609
SDEV	1.480625	4.96519	2.432749	6.8043	2.82610	2.53403	1.937029
%RSD	18.81023	46.13225	34.61548	40.15131	26.21927	10.88503	344.2939
#1	9.359952	5.038344	9.575746	-24.5234	12.98138	23.02233	1.606788
#2	7.855364	13.35185	4.729455	-11.3572	11.76259	25.93296	-2.11887
#3	6.398831	13.89868	6.778569	-14.9597	7.592189	20.88458	-1.17575
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.252256	66.01305	4811.667
SDEV	.832627	.83659	61.647
%RSD	66.49019	1.267306	1.281192
#1	.3007285	66.95557	4878.933
#2	1.608793	65.35844	4798.200
#3	1.847246	65.72515	4757.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-10 OPERATOR:
RUN TIME: 06/02/10 21:29:49
COMMENT: SDG:1005068 CLIENTID:SDZ-SD14 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.688756	18547.62	31.67791	.3135946	182943.0	-.425031	-.590123
SDEV	.065171	220.09	.67422	.1019628	1804.2	.076971	.188908
%RSD	9.462115	1.186619	2.128373	32.51419	.9862095	18.10948	32.01165
#1	-.667884	18347.99	30.93520	.2178898	182124.9	-.382869	-.672560
#2	-.761805	18783.63	31.84710	.3020597	185011.3	-.513871	-.374006
#3	-.636577	18511.23	32.25142	.4208343	181692.7	-.378354	-.723802
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	81.43618	19.59307	28375.06	3921.839	14145.67	187.4941	31381.32
SDEV	.82493	.03714	302.49	68.365	149.44	2.7798	387.22
%RSD	1.012983	.1895478	1.066044	1.743195	1.056454	1.482629	1.233914
#1	80.98480	19.61452	28232.33	3845.180	14027.30	187.2645	30946.33
#2	82.38831	19.61452	28722.51	3943.846	14313.59	190.3816	31509.20
#3	80.93543	19.55019	28170.34	3976.490	14096.11	184.8362	31688.42
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.97715	-7.09415	68.10238	78.05277	25.50096	2.427604	8.556625
SDEV	.40379	1.88851	1.35694	1.07656	.63734	1.385280	2.280916
%RSD	2.527309	26.62070	1.992504	1.379269	2.499298	57.06368	26.65672
#1	16.25538	-8.98773	68.20651	77.98060	26.15667	1.381284	9.715455
#2	15.51401	-7.08398	69.40426	79.16361	24.88373	1.902951	10.02548
#3	16.16205	-5.21074	66.69637	77.01412	25.46247	3.998577	5.928940
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.97724	26.58578	24.95616	-13.8220	10.53767	17.99437	-.499082
SDEV	.47968	2.17176	1.81064	2.6358	1.45991	1.74542	1.218831
%RSD	2.825457	8.168887	7.255283	19.06983	13.85424	9.699785	244.2148
#1	17.25014	24.37075	27.04514	-13.6403	8.878303	16.76531	-.860519
#2	17.25822	26.67508	23.98618	-16.5440	11.11001	19.99221	.8595896
#3	16.42337	28.71152	23.83717	-11.2817	11.62470	17.22559	-1.49631
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	5.570002	477.9500	4733.200
SDEV	.947274	4.3399	49.684
%RSD	17.00670	.9080166	1.049688
#1	4.733981	473.5889	4790.200
#2	6.598855	482.2683	4699.066
#3	5.377169	477.9929	4710.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-12 OPERATOR:
RUN TIME: 06/02/10 21:36:57
COMMENT: SDG:1005068 CLIENTID:SDZ-SD11 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.970519	19088.78	32.26030	.2787698	166032.5	-.536638	-.517628
SDEV	.065171	90.15	.17243	.1772124	3253.3	.096661	.782851
%RSD	6.715053	.4722696	.5344904	63.56944	1.959410	18.01230	151.2380
#1	-1.04357	18984.96	32.29948	.4773203	162695.6	-.495216	-1.35207
#2	-.949648	19134.23	32.07165	.1366285	169195.1	-.467591	.2006502
#3	-.918341	19147.16	32.40976	.2223605	166206.6	-.647106	-.401465
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	81.04561	20.00584	28986.28	4542.501	14615.59	197.7588	34345.86
SDEV	2.46957	.45496	312.54	57.555	130.65	1.7043	50.54
%RSD	3.047137	2.274129	1.078231	1.267027	.8939303	.8617839	.1471421
#1	78.37213	19.74317	28632.02	4600.605	14466.66	195.8619	34330.98
#2	83.24152	20.53119	29223.02	4485.512	14710.92	199.1607	34304.43
#3	81.52318	19.74317	29103.80	4541.387	14669.20	198.2540	34402.16
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.31689	-4.90716	69.18295	83.37521	24.86135	2.217160	9.868682
SDEV	.23034	2.31853	.80066	1.80090	1.06365	.919733	1.183410
%RSD	1.411660	47.24794	1.157306	2.159993	4.278321	41.48248	11.99158
#1	16.13594	-3.19500	68.36415	81.73827	23.89276	1.937531	9.450049
#2	16.57618	-7.54565	69.22056	85.30434	25.99965	3.244255	11.20451
#3	16.23855	-3.98083	69.96414	83.08305	24.69165	1.469696	8.951489
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.38251	26.70792	23.93636	-15.1850	10.90274	20.19352	-.628131
SDEV	2.22176	3.42953	3.22776	3.3167	3.00844	2.09493	2.567265
%RSD	11.46269	12.84085	13.48474	21.84171	27.59344	10.37428	408.7152
#1	17.46463	28.50104	21.58899	-13.2449	9.514912	20.82178	2.202047
#2	21.81709	22.75355	27.61719	-19.0147	14.35458	17.85635	-2.80704
#3	18.86582	28.86917	22.60290	-13.2955	8.838720	21.90243	-1.27940
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	8.383270	495.0708	4902.755
SDEV	.347695	5.5316	42.206
%RSD	4.147486	1.117327	.8608528
#1	8.042967	489.9431	4915.933
#2	8.737913	500.9328	4936.800
#3	8.368932	494.3365	4855.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005068-13 OPERATOR:
RUN TIME: 06/02/10 21:44:06
COMMENT: SDG:1005068 CLIENTID:SDZ-SD12 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.459170	10937.57	20.50158	-.546484	113049.7	-.686251	-.804670
SDEV	.219894	53.98	.07165	.212006	392.5	.168263	.294916
%RSD	47.88934	.4935291	.3495058	38.79455	.3472071	24.51910	36.65062
#1	-.229585	10988.04	20.42156	-.324754	112598.9	-.550810	-.545758
#2	-.480042	10944.02	20.52339	-.567495	113234.0	-.633331	-1.12570
#3	-.667884	10880.66	20.55981	-.747201	113316.1	-.874612	-.742555
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	59.39094	3.838206	17279.27	2124.661	9546.888	117.9105	25024.21
SDEV	.46781	.252746	86.23	31.714	85.052	.9897	187.00
%RSD	.7876838	6.585015	.4990229	1.492676	.8908875	.8393774	.7472614
#1	59.80551	3.725633	17376.53	2158.560	9644.747	118.8122	25238.08
#2	58.88374	3.661305	17249.12	2119.711	9505.131	118.0678	24891.56
#3	59.48357	4.127679	17212.17	2095.713	9490.784	116.8516	24943.00
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.637315	-5.25686	42.43437	52.37973	17.63007	1.527135	6.250438
SDEV	.527050	1.74169	.58254	.35784	.27747	2.551991	1.013542
%RSD	5.468852	33.13169	1.372807	.6831660	1.573819	167.1097	16.21553
#1	9.606347	-7.17953	43.10087	52.33074	17.94980	-1.13074	6.039233
#2	9.126430	-3.78466	42.17977	52.04891	17.45242	1.754058	5.359139
#3	10.17917	-4.80640	42.02247	52.75954	17.48799	3.958086	7.352941
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.779432	21.05947	15.91502	-10.7925	7.675322	20.02490	.8694438
SDEV	1.070966	3.62857	1.46258	1.3696	3.551078	1.01197	.2205533
%RSD	10.95121	17.23012	9.189921	12.69051	46.26618	5.053569	25.36717
#1	8.703604	24.84055	14.50655	-12.0733	4.329901	20.15319	1.051579
#2	10.84547	20.73230	15.81222	-9.34865	7.294676	20.96662	.9325308
#3	9.789226	17.60556	17.42628	-10.9557	11.40139	18.95491	.6242212
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	6.306136	300.4883	5003.489
SDEV	.957586	.9101	31.740
%RSD	15.18498	.3028825	.6343635
#1	6.080026	300.6244	4968.667
#2	7.356541	299.5179	5010.999
#3	5.481840	301.3228	5030.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052612-BLK1 OPERATOR:
RUN TIME: 06/02/10 21:51:15
COMMENT: SDG:1005131 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.125228	-29.0151	-.136601	-.952018	387.6345	-.670985	-3.30510
SDEV	.315151	7.4460	.066024	.190048	.6131	.167580	.28802
%RSD	251.6612	25.66264	48.33310	19.96268	.1581551	24.97521	8.714462
#1	-.166971	-21.7906	-.200716	-.820006	387.7025	-.648896	-2.97288
#2	.2087138	-28.5903	-.068822	-.866207	386.9903	-.848513	-3.45783
#3	-.417428	-36.6645	-.140266	-1.16984	388.2108	-.515544	-3.48459
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.060016	-1.96199	-5.51342	-1438.86	.4620368	.0730826	91.22292
SDEV	.174057	.22534	5.46604	5.17	1.077920	.0988030	59.94184
%RSD	290.0167	11.48516	99.14059	.3589949	233.2974	135.1936	65.70919
#1	.1156762	-1.74220	-3.42974	-1443.32	1.318421	.1338644	31.91507
#2	-.232390	-2.19249	-11.7148	-1433.20	.8160634	-.040922	89.97444
#3	-.063335	-1.95127	-1.39568	-1440.05	-.748374	.1263050	151.7792
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.653755	.9816751	.1839194	1.184743	1.262962	1.209313	.4039998
SDEV	.469765	1.654951	.1688269	.099538	.298526	.215425	.9238899
%RSD	71.85641	168.5844	91.79392	8.401619	23.63696	17.81383	228.6857
#1	-1.08759	1.673208	-.001123	1.299493	.9615598	1.452428	1.393346
#2	-.718835	-.906880	.2233194	1.133028	1.558526	1.042159	.2549672
#3	-.154843	2.178698	.3295622	1.121708	1.268801	1.133351	-.436314
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-2.52000	2.956426	.4150148	-1.07017	2.344867	.0972206	-.888941
SDEV	.09401	1.872768	.4958624	3.33172	1.924368	.8538976	1.225626
%RSD	3.730480	63.34568	119.4807	311.3255	82.06728	878.3092	137.8749
#1	-2.48360	1.231807	.8241254	-3.46701	3.905945	.5204018	-.026077
#2	-2.62677	4.948571	-.136457	2.734341	.1948499	-.885622	-.348901
#3	-2.44964	2.688901	.5573757	-2.47785	2.933804	.6568819	-2.29185
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.0151607	-.050788	4873.400
SDEV	.5721869	.076252	72.814
%RSD	3774.136	150.1377	1.494102
#1	-.643904	.0370792	4807.667
#2	.3044005	-.099611	4860.866
#3	.3849854	-.089833	4951.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052612-BS1 OPERATOR:
RUN TIME: 06/02/10 21:58:23
COMMENT: SDG:1005131 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	989.9504	17977.64	17316.50	530.6456	49920.54	494.4420	5170.787
SDEV	3.8900	69.64	115.22	2.9936	379.77	2.5492	29.311
%RSD	.3929505	.3873896	.6653711	.5641388	.7607544	.5155617	.5668644
#1	985.6300	17994.62	17240.28	528.5955	49585.97	493.1986	5171.547
#2	993.1750	17901.08	17260.17	529.2604	49842.30	492.7533	5141.103
#3	991.0461	18037.23	17449.05	534.0809	50333.33	497.3743	5199.711
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	24000.00	24000.00	600.0000	60000.00	600.0000	6000.000
LOW	800.0000	16000.00	16000.00	400.0000	40000.00	400.0000	4000.000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	995.4858	2480.189	10099.90	48111.32	48832.75	1529.859	46080.92
SDEV	14.8443	4.737	91.19	392.80	335.83	16.527	300.54
%RSD	1.491162	.1910027	.9028349	.8164304	.6877246	1.080290	.6521995
#1	1006.018	2475.235	10130.12	48349.18	49005.27	1534.189	46260.64
#2	978.5083	2480.655	9997.436	47657.94	48445.72	1511.598	45733.96
#3	1001.931	2484.675	10172.13	48326.84	49047.27	1543.789	46248.16
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	3000.000	12000.00	60000.00	60000.00	1800.000	60000.00
LOW	800.0000	2000.000	8000.000	40000.00	40000.00	1200.000	40000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3909.245	982.5082	5030.135	2021.516	291.8476	470.4341	5842.325
SDEV	22.573	9.5480	24.419	18.384	2.2940	2.1118	35.613
%RSD	.5774356	.9717988	.4854509	.9094105	.7860264	.4488976	.6095662
#1	3900.263	979.0394	5049.847	2005.185	292.0236	471.5025	5862.560
#2	3892.544	975.1794	5002.819	2017.937	289.4706	468.0016	5801.204
#3	3934.926	993.3057	5037.739	2041.426	294.0485	471.7982	5863.210
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4800.000	1200.000	6000.000	2400.000	360.0000	600.0000	7200.000
LOW	3200.000	800.0000	4000.000	1600.000	240.0000	400.0000	4800.000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1000.822	291.6228	291.9561	474.6717	468.3160	1040.638	964.4798
SDEV	1.640	4.5489	1.8422	2.9691	2.7859	7.728	7.9415
%RSD	.1638703	1.559851	.6309926	.6254968	.5948721	.7426481	.8233983
#1	1002.279	294.5098	290.7789	472.6739	470.9153	1034.109	962.7084
#2	999.0460	286.3791	291.0103	473.2578	465.3750	1038.634	957.5735
#3	1001.140	293.9794	294.0791	478.0835	468.6578	1049.170	973.1574
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	1200.000					1205.000	1205.000
LOW	800.0000					795.0000	795.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1016.690	973.4571	4898.422
SDEV	7.871	5.9585	33.487
%RSD	.7742258	.6120994	.6836206
#1	1016.388	970.8783	4874.733
#2	1008.974	969.2223	4936.733
#3	1024.708	980.2706	4883.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	1205.000	1205.000	
LOW	795.0000	795.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052612-BSD1 OPERATOR:
RUN TIME: 06/02/10 22:05:32
COMMENT: SDG:1005131 CLIENTID:LCSWD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	991.1609	18304.34	17872.47	535.4482	49909.32	498.9360	5175.260
SDEV	5.7702	205.33	226.39	4.6791	522.22	5.4084	50.657
%RSD	.5821617	1.121763	1.266670	.8738598	1.046336	1.083979	.9788337
#1	994.7091	18074.47	17684.25	530.3025	49430.79	493.2394	5141.224
#2	994.2708	18469.58	18123.68	539.4477	50466.34	504.0005	5151.079
#3	984.5029	18368.98	17809.48	536.5944	49830.82	499.5681	5233.476
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	24000.00	24000.00	600.0000	60000.00	600.0000	6000.000
LOW	800.0000	16000.00	16000.00	400.0000	40000.00	400.0000	4000.000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	987.8723	2508.230	10141.07	49525.71	49215.02	1529.287	47069.34
SDEV	7.1863	5.363	65.91	622.28	416.90	6.104	478.28
%RSD	.7274504	.2138146	.6499215	1.256469	.8470981	.3991719	1.016123
#1	982.4157	2503.041	10067.44	48819.82	48739.06	1522.835	46533.31
#2	996.0146	2513.751	10194.55	49762.42	49515.48	1534.972	47452.48
#3	985.1865	2507.898	10161.23	49994.89	49390.51	1530.054	47222.23
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1200.000	3000.000	12000.00	60000.00	60000.00	1800.000	60000.00
LOW	800.0000	2000.000	8000.000	40000.00	40000.00	1200.000	40000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3950.338	998.0533	5032.073	2013.627	296.9737	480.7963	5956.523
SDEV	31.945	5.2370	55.079	11.102	2.6087	3.2768	54.529
%RSD	.8086741	.5247183	1.094566	.5513284	.8784125	.6815354	.9154552
#1	3917.959	993.3176	5001.889	2001.970	294.5920	477.1986	5893.564
#2	3981.831	997.1647	5095.646	2014.836	299.7617	481.5804	5987.248
#3	3951.223	1003.678	4998.683	2024.075	296.5673	483.6099	5988.756
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4800.000	1200.000	6000.000	2400.000	360.0000	600.0000	7200.000
LOW	3200.000	800.0000	4000.000	1600.000	240.0000	400.0000	4800.000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1023.578	295.8339	297.5393	482.0654	480.1602	1055.818	981.3958
SDEV	7.971	2.7957	3.1427	1.9768	3.9269	8.982	10.4263
%RSD	.7787370	.9450124	1.056245	.4100673	.8178374	.8507193	1.062399
#1	1014.462	295.5699	294.1004	479.9270	475.8339	1045.518	970.8618
#2	1027.031	298.7522	300.2624	482.4432	481.1471	1062.019	991.7110
#3	1029.240	293.1796	298.2550	483.8260	483.4995	1059.917	981.6146
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	1200.000					1205.000	1205.000
LOW	800.0000					795.0000	795.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1030.951	984.7859	4843.555
SDEV	5.969	9.2865	45.956
%RSD	.5789829	.9430011	.9488077
#1	1024.072	975.7588	4895.466
#2	1034.757	994.3118	4827.133
#3	1034.025	984.2871	4808.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	1205.000	1205.000	
LOW	795.0000	795.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005131-01 OPERATOR:
RUN TIME: 06/02/10 22:12:41
COMMENT: SDG:1005131 CLIENTID:EB051210-SS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.229585	-41.5240	-.051074	-1.46504	427.8408	-.695214	-3.15497
SDEV	.278263	1.5809	.124150	.12050	2.8973	.172203	.37252
%RSD	121.2027	3.807280	243.0789	8.224839	.6771799	24.76983	11.80756
#1	-.323506	-42.3380	.0912882	-1.42497	425.8973	-.881125	-3.57975
#2	-.448735	-42.5321	-.107660	-1.36968	426.4545	-.663346	-3.00128
#3	.0834855	-39.7019	-.136850	-1.60046	431.1708	-.541170	-2.88388
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5991476	-1.52242	14.00219	L-1433.72	6.064081	.3714512	97.35960
SDEV	1.226588	.34951	22.16906	3.17	4.263893	.1444005	48.81410
%RSD	204.7223	22.95763	158.3257	.2212945	70.31393	38.87470	50.13794
#1	-.067002	-1.58138	2.072436	L-1430.27	5.943604	.2866239	153.6134
#2	-.150230	-1.83869	.3525809	L-1434.39	1.861703	.2895477	66.15828
#3	2.014674	-1.14717	39.58154	L-1436.50	10.38694	.5381820	72.30717
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4225704	2.878633	-.085532	20.66626	1.545514	.8214879	3.524481
SDEV	.5330903	.968786	.133391	1.09855	.131111	1.109932	3.466946
%RSD	126.1542	33.65439	155.9537	5.315664	8.483314	135.1123	98.36755
#1	.0435640	2.560036	-.016744	19.42205	1.412961	.9108183	1.359064
#2	.1920132	2.109266	-.239276	21.07442	1.548447	-.330410	1.691209
#3	1.032134	3.966596	-.000577	21.50231	1.675133	1.884055	7.523169
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1665091	2.669158	.9818166	-3.46564	2.959435	-.112888	.9238579
SDEV	1.927256	.746595	.5604953	3.25178	.440817	1.097778	1.412443
%RSD	1157.448	27.97117	57.08758	93.82930	14.89530	972.4467	152.8853
#1	-2.01947	3.222234	.5069892	-2.22189	2.472431	1.103260	-.379933
#2	.8983323	2.965318	.8383638	-7.15572	3.074722	-.411358	.7271706
#3	1.620664	1.819921	1.600097	-1.01930	3.331153	-1.03057	2.424336
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.657275	.3089637	5030.444
SDEV	.887239	.3887368	17.162
%RSD	53.53605	125.8195	.3411530
#1	2.394430	.2643805	5049.733
#2	1.904850	-.055559	5016.866
#3	.6725436	.7180699	5024.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005131-02 OPERATOR:
RUN TIME: 06/02/10 22:19:50
COMMENT: SDG:1005131 CLIENTID:EB051310-SB 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.333942	-52.6045	-.185114	-1.58478	407.3205	-1.04732	-4.49658
SDEV	.234977	5.5174	.062006	.10033	.8385	.20114	.88229
%RSD	70.36456	10.48850	33.49633	6.330753	.2058505	19.20496	19.62130
#1	-.104357	-58.2100	-.122967	-1.69648	408.1596	-.817279	-3.99490
#2	-.573963	-47.1795	-.246979	-1.50232	407.3192	-1.13463	-3.97953
#3	-.323506	-52.4240	-.185396	-1.55553	406.4827	-1.19005	-5.51533
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9132965	-1.17398	6.432719	L-1442.57	4.068763	.2363829	-24.1339
SDEV	.6723877	.08094	5.254244	7.58	4.398082	.1245597	48.5437
%RSD	73.62205	6.894836	81.67999	.5253801	108.0939	52.69405	201.1429
#1	1.683231	-1.09893	8.589178	L-1434.18	9.030128	.3721231	28.74422
#2	.6149656	-1.25975	10.26563	L-1448.93	.6490527	.1273293	-66.6795
#3	.4416931	-1.16326	.4433444	L-1444.59	2.527108	.2096964	-34.4666
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2430283	2.782630	.0645305	2.605023	.2961745	1.313268	2.516862
SDEV	.0848221	1.592205	.4243984	.376604	1.458882	.617547	.800650
%RSD	34.90213	57.21943	657.6715	14.45683	492.5751	47.02368	31.81146
#1	.2901846	3.505651	.5498289	2.941630	-1.28926	.6128832	1.981436
#2	.1451064	3.885035	-.119143	2.675157	.5957961	1.779478	3.437285
#3	.2937940	.9572046	-.237094	2.198282	1.581984	1.547442	2.131864
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.15769	.0004375	.4413911	-.546643	2.239399	-1.10102	-1.24434
SDEV	1.84841	1.800444	2.943477	3.124037	2.267965	2.53193	2.22355
%RSD	159.6639	411485.1	666.8638	571.4947	101.2756	229.9635	178.6932
#1	-.398489	1.967755	-2.91773	1.208155	.3132872	1.289637	-1.97614
#2	.1902350	-1.56533	1.672286	-4.15353	4.739086	-3.75383	-3.00975
#3	-3.26480	-.401117	2.569615	1.305449	1.665822	-.838852	1.252880
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.382179	.1503940	4972.155
SDEV	.561755	.2266414	45.728
%RSD	146.9874	150.6984	.9196885
#1	.2637947	.3173778	5021.533
#2	-.756229	.2414119	4931.266
#3	-.654104	-.107608	4963.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 06/02/10 22:26:58
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	104.0334	46177.91	915.0222	1099.618	51491.61	1036.999	1063.729
SDEV	.1887	585.29	10.1080	4.029	329.33	11.763	12.316
%RSD	.1813944	1.267461	1.104673	.3663780	.6395720	1.134315	1.157794
#1	103.8351	46852.28	926.0685	1100.302	51375.07	1033.749	1063.829
#2	104.0543	45879.12	912.7634	1095.291	51236.40	1027.203	1051.364
#3	104.2108	45802.32	906.2347	1103.261	51863.36	1050.045	1075.995
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1018.124	1011.802	26372.54	49163.09	51621.98	1049.407	47360.21
SDEV	15.063	1.517	293.40	873.56	404.44	12.275	585.99
%RSD	1.479482	.1499119	1.112506	1.776858	.7834561	1.169735	1.237308
#1	1023.705	1010.129	26391.95	50167.23	51851.71	1048.225	48036.68
#2	1001.067	1013.088	26069.92	48578.04	51155.00	1037.765	47035.23
#3	1029.599	1012.187	26655.75	48744.01	51859.23	1062.230	47008.71
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1031.841	1040.603	1026.443	1170.316	1016.651	1045.244	1033.129
SDEV	7.033	6.957	5.451	21.862	9.941	6.973	11.391
%RSD	.6815568	.6686023	.5310863	1.868023	.9777995	.6671491	1.102540
#1	1030.178	1041.699	1029.377	1155.920	1009.051	1048.843	1034.633
#2	1025.789	1033.163	1020.153	1159.556	1013.001	1037.206	1021.061
#3	1039.555	1046.948	1029.798	1195.473	1027.901	1049.682	1043.693
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1076.809	1027.287	1011.337	1070.830	1032.468	1101.109	1012.774
SDEV	6.125	7.180	11.666	16.245	5.525	12.563	10.734
%RSD	.5688396	.6989704	1.153480	1.517015	.5351125	1.140947	1.059856
#1	1078.371	1019.852	1003.655	1086.750	1029.915	1100.581	1022.003
#2	1070.054	1027.827	1005.596	1054.279	1028.680	1088.819	1000.995
#3	1082.003	1034.183	1024.761	1071.460	1038.807	Q1113.928	1015.324
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1063.553	1005.650	4940.377
SDEV	10.220	13.723	76.286
%RSD	.9609208	1.364617	1.544137
#1	1059.074	1021.414	4854.200
#2	1056.338	999.1653	4999.266
#3	1075.248	996.3714	4967.667
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 06/02/10 22:34:07
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.281764	-50.5569	.0285834	-1.29716	381.8471	-.211793	-2.03461
SDEV	.388931	14.5327	.0511317	.30860	.2103	.423513	1.29329
%RSD	138.0344	28.74531	178.8858	23.79039	.0550775	199.9652	63.56450
#1	-.073050	-34.0741	.0302869	-.940881	382.0573	.2319698	-.575658
#2	-.041743	-56.0710	.0788421	-1.48098	381.6367	-.611633	-3.04012
#3	-.730498	-61.5256	-.023379	-1.46962	381.8472	-.255717	-2.48806
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3288136	-1.87622	1.083028	-1429.45	9.636920	.3244297	-3.74201
SDEV	.6017371	.08253	8.949435	2.03	.899468	.1205583	27.31600
%RSD	183.0025	4.398521	826.3348	.1423037	9.333559	37.16005	729.9819
#1	.0300989	-1.85478	-8.84546	-1427.28	10.57278	.2229537	25.77999
#2	-.065120	-1.96735	8.529459	-1429.78	8.778907	.2926373	-8.88521
#3	1.021462	-1.80653	3.565084	-1431.30	9.559071	.4576981	-28.1208
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2794965	4.190866	.4128999	1.019753	-.301119	2.487946	-.648829
SDEV	.6688417	1.552798	.0765547	.227546	1.070972	1.614448	1.695747
%RSD	239.3024	37.05196	18.54074	22.31380	355.6641	64.89081	261.3552
#1	-.000164	5.036588	.4707114	.8246021	.8394594	3.997556	-1.25985
#2	1.042778	5.137219	.4419079	.9649676	-1.28528	.7859078	-1.95439
#3	-.204125	2.398791	.3260805	1.269691	-.457534	2.680373	1.267752
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4559421	-.214402	-.346972	3.479435	1.990486	-1.76760	-.069233
SDEV	.5607929	.621883	1.712562	2.141920	1.355400	1.02398	1.570058
%RSD	122.9965	290.0552	493.5734	61.55942	68.09391	57.93044	2267.801
#1	-.091971	-.117719	1.314800	5.575397	3.207287	-1.29125	.9291223
#2	.4310138	.3534778	-2.10616	1.294340	.5296451	-2.94297	.7421418
#3	1.028783	-.878964	-.249552	3.568568	2.234526	-1.06857	-1.87896
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.184095	.3585644	4918.333
SDEV	1.428747	.0482989	124.006
%RSD	120.6616	13.47007	2.521311
#1	2.696852	.3126664	4775.800
#2	.9977981	.4089509	4977.733
#3	-.142366	.3540759	5001.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

Maintenance: None

Method(s) (circle one): ILM04.1 (ILM05.4) Others 7470A

Operator(s): NSB Date/Time 5/27/10 0857 to 5/27/10 1135

Printed: 5/27/2010 11:48:49 AM

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005131	Water	Complete
1005156	Water	RR 16-30
MC0087	Tissue	Complete

Batch
0051824
0052423
0052613

HG Run Log (V4)

File Name: V405270A

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	CAL1	S0	CALIB STD	1.0	27 MAY 10	08:57:26	1865	
	CAL2	S0.2	CALIB STD	1.0	27 MAY 10	08:59:17	4163	
	CAL3	S0.5	CALIB STD	1.0	27 MAY 10	09:01:11	7292	
	CAL4	S1.0	CALIB STD	1.0	27 MAY 10	09:03:02	12411	
	CAL5	S5.0	CALIB STD	1.0	27 MAY 10	09:04:58	53106	
	CAL6	S10.0	CALIB STD	1.0	27 MAY 10	09:06:53	104697	
	ICV1	ICV	ICV	1.0	27 MAY 10	09:08:46	3.87	
	ICB1	ICB	ICB	1.0	27 MAY 10	09:10:38	-.024	
	CRL1	CRI	CRI	1.0	27 MAY 10	09:12:32	.202	
	CCV1	CCV1	CCV	1.0	27 MAY 10	09:14:43	4.92	
	CCB1	CCB1	CCB	1.0	27 MAY 10	09:16:34	-.031	
	0051824-BLK1	PBS	BLANK	1.0	27 MAY 10	09:18:26	-.010	
	0051824-BS1	LCSS	LCS	1.0	27 MAY 10	09:20:16	5.22	
	1005119-01	MC0087	SAMPLE	1.0	27 MAY 10	09:22:16	-.052	
	0051824-DUP1	MC0087D	DUPLICATE	1.0	27 MAY 10	09:24:06	.010	
	0051824-MS1	MC0087S	MATRIX SPIKE	1.0	27 MAY 10	09:25:57	.687	
	1005119-02	MC00B6	SAMPLE	1.0	27 MAY 10	09:27:47	.170	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: [signature] Date: 060310

HG Run Log (V4)

File Name: V405270A

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	1005119-03	MC00B7	SAMPLE	1.0	27 MAY 10	09:29:38	.061	
	1005119-04	MC00B8	SAMPLE	1.0	27 MAY 10	09:31:28	.182	
	1005119-05	MC00B9	SAMPLE	1.0	27 MAY 10	09:33:29	.011	
	1005119-06	MC00C0	SAMPLE	1.0	27 MAY 10	09:35:20	.166	
	CCV2	CCV2	CCV	1.0	27 MAY 10	09:37:24	5.11	
	CCB2	CCB2	CCB	1.0	27 MAY 10	09:39:15	-.011	
	1005119-07	MC00C1	SAMPLE	1.0	27 MAY 10	09:41:05	.056	
	1005119-08	MC00C2	SAMPLE	1.0	27 MAY 10	09:42:56	.154	
	1005119-09	MC00C3	SAMPLE	1.0	27 MAY 10	09:44:47	.073	
	1005119-10	MC00C4	SAMPLE	1.0	27 MAY 10	09:46:42	.135	
	1005119-11	MC00C5	SAMPLE	1.0	27 MAY 10	09:48:33	.048	
	1005119-12	MC00C6	SAMPLE	1.0	27 MAY 10	09:50:22	.395	
	1005119-13	MC00C7	SAMPLE	1.0	27 MAY 10	09:52:22	.129	
	1005119-14	MC00C8	SAMPLE	1.0	27 MAY 10	09:54:12	.371	
	CRL2	CRI	CRI	1.0	27 MAY 10	09:56:12	.196	
	CCV3	CCV3	CCV	1.0	27 MAY 10	09:58:12	5.08	
	CCB3	CCB3	CCB	1.0	27 MAY 10	10:00:05	-.024	
	1005119-15	MC00C9	SAMPLE	1.0	27 MAY 10	10:01:54	.131	
	1005119-16	MC00D0	SAMPLE	1.0	27 MAY 10	10:03:45	.034	
	1005119-17	MC00D1	SAMPLE	1.0	27 MAY 10	10:05:50	-.001	
	1005119-18	MC00D2	SAMPLE	1.0	27 MAY 10	10:07:45	.341	
	1005119-19	MC00D3	SAMPLE	1.0	27 MAY 10	10:09:40	.126	
	1005119-20	MC00D4	SAMPLE	1.0	27 MAY 10	10:11:32	.052	
	0052423-BLK1	PBW	BLANK	1.0	27 MAY 10	10:13:28	.039	
	1005156-01	BCL-OHC	SAMPLE	1.0	27 MAY 10	10:15:20	-.031	
	0052423-DUP1	BCL-OHCD	DUPLICATE	1.0	27 MAY 10	10:17:11	-.037	
	CCV4	CCV4	CCV	1.0	27 MAY 10	10:19:14	5.06	
	CCB4	CCB4	CCB	1.0	27 MAY 10	10:21:14	-.002	
	0052423-MS1	BCL-OHCS	MATRIX SPIKE	1.0	27 MAY 10	10:23:05	1.03	
	1005156-02	BCL-MW7SU	SAMPLE	1.0	27 MAY 10	10:24:57	.037	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 060310

HG Run Log (V4)

File Name: V405270A

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	1005156-03	BCL-MW60	SAMPLE	1.0	27 MAY 10	10:26:48	.012	
	1005156-06	BCL-MW7SL	SAMPLE	1.0	27 MAY 10	10:28:42	.068	
	1005156-07	BCL-MW5BL	SAMPLE	1.0	27 MAY 10	10:31:09	.043	
	1005156-08	BCL-MW5B	SAMPLE	1.0	27 MAY 10	10:33:01	.073	
	1005156-09	BCL-MW5SL	SAMPLE	1.0	27 MAY 10	10:34:52	.073	
	1005156-11	BCL-MW22SL	SAMPLE	1.0	27 MAY 10	10:36:46	.026	
	CRL3	CRI	CRI	1.0	27 MAY 10	10:38:49	.226	
	CCV5	CCV5	CCV	1.0	27 MAY 10	10:40:41	5.25	
	CCB5	CCB5	CCB	1.0	27 MAY 10	10:42:41	.006	
	1005156-16	BCL-MW22BL	SAMPLE	1.0	27 MAY 10	10:44:37	.008	
	1005156-17	BCL-MW29B	SAMPLE	1.0	27 MAY 10	10:46:49	.146	
	1005156-18	BCL-MW29SU	SAMPLE	1.0	27 MAY 10	10:48:41	.034	
	1005156-19	BCL-MW28SU	SAMPLE	1.0	27 MAY 10	10:50:44	.044	
	1005156-20	BCL-MW31SU	SAMPLE	1.0	27 MAY 10	10:52:35	.040	
	1005156-21	BCL-MW31B	SAMPLE	1.0	27 MAY 10	10:54:38	.263	
	1005156-22	BCL-MW30SU	SAMPLE	1.0	27 MAY 10	10:56:29	.051	
	CCV6	CCV6	CCV	1.0	27 MAY 10	10:58:25	5.36	
	CCB6	CCB6	CCB	1.0	27 MAY 10	11:00:28	-.016	
	1005156-23	BCL-MW22B	SAMPLE	1.0	27 MAY 10	11:02:21	-.009	
	1005156-24	BCL-MW23BL	SAMPLE	1.0	27 MAY 10	11:04:28	.014	
	1005156-25	BCL-MW23SL	SAMPLE	1.0	27 MAY 10	11:06:26	.381	
	1005156-29	BCL-MW23B	SAMPLE	1.0	27 MAY 10	11:08:19	.009	
	1005156-30	BCL-MW25B	SAMPLE	1.0	27 MAY 10	11:10:10	.023	
	0052613-BLK1	PBW	BLANK	1.0	27 MAY 10	11:12:03	.031	
	CRL4	CRI	CRI	1.0	27 MAY 10	11:13:55	.267	
	CCV7	CCV7	CCV	1.0	27 MAY 10	11:15:45	5.34	
	CCB7	CCB7	CCB	1.0	27 MAY 10	11:17:39	.040	
	0052613-BS1	LCSW	LCS	1.0	27 MAY 10	11:19:31	3.13	
	0052613-BSD1	LCSWD	LCS DUP	1.0	27 MAY 10	11:21:22	3.08	
	1005131-01	EB051210-SS	SAMPLE	1.0	27 MAY 10	11:23:15	-.007	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 060210

HG Run Log (V4)

File Name: V405270A

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	1005131-02	EB051310-SB	SAMPLE	1.0	27 MAY 10	11:25:11	.020	
	1005131-03	BBG-FB051310	SAMPLE	1.0	27 MAY 10	11:27:25	.033	
	1005131-04	BBG-FB051810	SAMPLE	1.0	27 MAY 10	11:29:16	.031	
	1005131-05	EB051810-SS	SAMPLE	1.0	27 MAY 10	11:31:13	.038	
	CCV8	CCV8	CCV	1.0	27 MAY 10	11:33:09	5.09	
	CCB8	CCB8	CCB	1.0	27 MAY 10	11:35:00	-.064	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 060310

Standards/QC Preparation Log for Analysis of Cold Vapor Mercury

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 NNN

Seq. File Name: V405270A

156

REAGENTS	REF #[1]	MANUFACTURER	LOT #	EXPIRATION DATE
Sodium Chloride (NaCL)	1m2-188-15	JTBAKER	H14614	08/12
Hydrochloric Acid (HCL)	OD25012	Caledon	72420	04/13
Hydroxylamine Hydrochloride (NH_2OH-HCL)	0D13003	JT BAKER	H51598	04/13
Stannous Chloride ($SnCL_2$-$2H_2O$)	9L30015	JT BAKER	H13584	12/12

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
$SnCL_2$– 05-25-10-NB Stannous chloride	Place in a 1000 mL volumetric flask containing 500 mL of reagent water: 100 g of $SnCl_2$-$2H_2O$ Baker Instra-analyzed or equivalent 250 mL of HCL Baker Instra-analyzed or equivalent Dilute to 1000 mL with reagent water. Prepare as needed
HCL– 05-26-10 – NB Hydrochloric Acid	Place in a 2 L volumetric flask: 1000 mL of deionized water 200 mL of concentrated HCL Baker Instra-analyzed or equivalent Dilute to 2000 mL with reagent water. Prepare as needed
NH_2OH-HCL– 05-26-10 –NB Hydroxylamine hydrochloride	Place in a 2000 ml volumetric flask: 240.0 g of NH_2OH-HCl Baker Instra-analyzed or equivalent 240.0 g NaCl Baker Instra-analyzed or equivalent Dilute to 2000 mL with reagent water. Place solution in a repipetor bottle. Prepare as needed

Standard Solutions Prepared By: M Bauer

Entered By: M Bauer Date: 5/27/10

Reviewed By: 2 Date: 060310

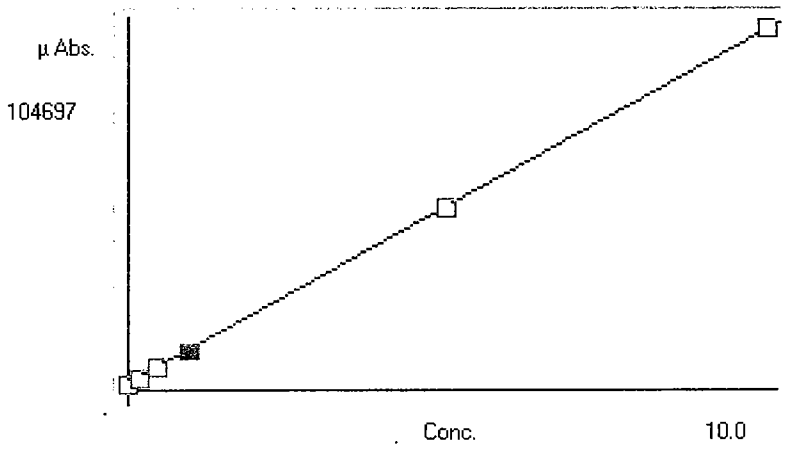
[1]Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

[2]Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Protocol: INSTIDV4

Folder: V405270A



A	
B	9.74979e-5
C	-1.99029e-1
Rhc	.999993

Accepted Date: 27-May-10 09:06

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.017	-.017	1866	1	1865				
02	.20000	.207	.007	4163	0%	4163				
03	.50000	.512	.012	7293	0%	7292				
04	1.0000	1.01	.011	12411	0%	12411				
05	5.0000	4.98	-.021	53107	0%	53106				
06	10.000	10.0	.009	104698	0%	104697				
07										
08										
09										
10										

S0.5 (.512 / .5) · 100 = 102.4%

S1.0 (1.01 / 1.0) · 100 = 101%

S 5.0 (4.98 / 5.0) · 100 = 99.6%

S 10.0 (10.0 / 10.0) · 100 = 100%

all standards are within ± 5% of true values.

NS 5/27/10

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Standard: 1 Rep: 1	S0 ms1b711a			Seq: 1		08:57:26 27 May 10			HG
Hg	.000	ppb	1865						
*** Standard: 2 Rep: 1	S0.2 ms1b711a			Seq: 2		08:59:17 27 May 10			HG
Hg	.200	ppb	4163						
*** Standard: 3 Rep: 1	S0.5 ms1b711a			Seq: 3		09:01:11 27 May 10			HG
Hg	.500	ppb	7292						
*** Standard: 4 Rep: 1	S1.0 ms1b711a			Seq: 4		09:03:02 27 May 10			HG
Hg	1.00	ppb	12411						
*** Standard: 5 Rep: 1	S5.0 ms1b711a			Seq: 5		09:04:58 27 May 10			HG
Hg	5.00	ppb	53106						
*** Standard: 6 Rep: 1	S10.0 ms1b711a			Seq: 6		09:06:53 27 May 10			HG
Hg	10.0	ppb	104697						

*** Check Standard: 3 Ck3 ICV				Seq: 7		09:08:46 27 May 10			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		96.8	3.87	4.00	ppb	.000			

*** Check Standard: 1 Ck1 ICCB ms1a711a				Seq: 8		09:10:38 27 May 10			HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD			
Hg		-.024	.200	ppb		.000			

*** Check Standard: 4 Ck4 CRI				Seq: 9		09:12:32 27 May 10			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		101.	.202	.200	ppb	.000			

*** Check Standard: 2 Ck2 CCV				Seq: 10		09:14:43 27 May 10			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		98.3	4.92	5.00	ppb	.000			

*** Check Standard: 1 Ck1 CCB				Seq: 11		09:16:34 27 May 10			HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD			
Hg		-.031	.200	ppb		.000			

*** Sample ID: PBS				Seq: 12		09:18:26 27 May 10			HG
			0051824-BLK1						
Hg	-.010	ppb	.000	-.010					

*** Sample ID: LCSS				Seq: 13		09:20:16 27 May 10			HG
			0051824-BS1						
Hg	5.22	ppb	.000	5.22					

*** Sample ID: MC0087				Seq: 14		09:22:16 27 May 10			HG
			1005119-01						
Hg	-.052	ppb	.000	-.052					

*** Sample ID: MC0087D				Seq: 15		09:24:06 27 May 10			HG
			0051824-DUP1						
Hg	.010	ppb	.000	.010					

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------------

*** Sample ID: MC0087S                Seq:  16     09:25:57 27 May 10   HG
                            0051824-MS1
Hg    .687    ppb        .000      .687
                                                                          =
===============================================================================
*** Sample ID: MC00B6                 Seq:  17     09:27:47 27 May 10   HG
                            1005119-02
Hg    .170    ppb        .000      .170
                                                                          =
===============================================================================
*** Sample ID: MC00B7                 Seq:  18     09:29:38 27 May 10   HG
                            1005119-03
Hg    .061    ppb        .000      .061
                                                                          =
===============================================================================
*** Sample ID: MC00B8                 Seq:  19     09:31:28 27 May 10   HG
                            1005119-04
Hg    .182    ppb        .000      .182
                                                                          =
===============================================================================
*** Sample ID: MC00B9                 Seq:  20     09:33:29 27 May 10   HG
                            1005119-05
Hg    .011    ppb        .000      .011
                                                                          =
===============================================================================
*** Sample ID: MC00C0                 Seq:  21     09:35:20 27 May 10   HG
                            1005119-06
Hg    .166    ppb        .000      .166
                                                                          =
*** Check Standard: 2  Ck2 CCV        Seq:  22     09:37:24 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.11    5.00  ppb         .000
                                                                          =
*** Check Standard: 1  Ck1 CCB        Seq:  23     09:39:15 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.011     .200     ppb         .000
                                                                          =
*** Sample ID: MC00C1                 Seq:  24     09:41:05 27 May 10   HG
                            1005119-07
Hg    .056    ppb        .000      .056
                                                                          =
===============================================================================
*** Sample ID: MC00C2                 Seq:  25     09:42:56 27 May 10   HG
                            1005119-08
Hg    .154    ppb        .000      .154
                                                                          =
===============================================================================
*** Sample ID: MC00C3                 Seq:  26     09:44:47 27 May 10   HG
                            1005119-09
Hg    .073    ppb        .000      .073
                                                                          =
===============================================================================
*** Sample ID: MC00C4                 Seq:  27     09:46:42 27 May 10   HG
                            1005119-10
Hg    .135    ppb        .000      .135
                                                                          =
===============================================================================
*** Sample ID: MC00C5                 Seq:  28     09:48:33 27 May 10   HG
                            1005119-11
Hg    .048    ppb        .000      .048
                                                                          =
===============================================================================
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: MC00C6				Seq: 29	09:50:22 27 May 10				HG
				1005119-12					
Hg	.395	ppb	.000	.395					=
*** Sample ID: MC00C7				Seq: 30	09:52:22 27 May 10				HG
				1005119-13					
Hg	.129	ppb	.000	.129					=
*** Sample ID: MC00C8				Seq: 31	09:54:12 27 May 10				HG
				1005119-14					
Hg	.371	ppb	.000	.371					=
*** Check Standard: 4 Ck4 CRI				Seq: 32	09:56:12 27 May 10				HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		98.0	.196	.200	ppb	.000			=
*** Check Standard: 2 Ck2 CCV				Seq: 33	09:58:12 27 May 10				HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		102.	5.08	5.00	ppb	.000			=
*** Check Standard: 1 Ck1 CCB				Seq: 34	10:00:05 27 May 10				HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD				
Hg		-.024	.200	ppb	.000				=
*** Sample ID: MC00C9				Seq: 35	10:01:54 27 May 10				HG
				1005119-15					
Hg	.131	ppb	.000	.131					=
*** Sample ID: MC00D0				Seq: 36	10:03:45 27 May 10				HG
				1005119-16					
Hg	.034	ppb	.000	.034					=
*** Sample ID: MC00D1				Seq: 37	10:05:50 27 May 10				HG
				1005119-17					
Hg	-.001	ppb	.000	-.001					=
*** Sample ID: MC00D2				Seq: 38	10:07:45 27 May 10				HG
				1005119-18					
Hg	.341	ppb	.000	.341					=
*** Sample ID: MC00D3				Seq: 39	10:09:40 27 May 10				HG
				1005119-19					
Hg	.126	ppb	.000	.126					=
*** Sample ID: MC00D4				Seq: 40	10:11:32 27 May 10				HG
				1005119-20					
Hg	.052	ppb	.000	.052					=
*** Sample ID: PBW				Seq: 41	10:13:28 27 May 10				HG
				0052423-BLK1					
Hg	.039	ppb	.000	.039					=

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: BCL-OHC Seq: 42 10:15:20 27 May 10 HG
1005156-01

Hg	-.031	ppb	.000	-.031				

*** Sample ID: BCL-OHCD Seq: 43 10:17:11 27 May 10 HG
0052423-DUP1

Hg	-.037	ppb	.000	-.037				

*** Check Standard: 2 Ck2 CCV Seq: 44 10:19:14 27 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	5.06	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 45 10:21:14 27 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.002	.200	ppb	.000

*** Sample ID: BCL-OHCS Seq: 46 10:23:05 27 May 10 HG
0052423-MS1

Hg	1.03	ppb	.000	1.03				

*** Sample ID: BCL-MW7S Seq: 47 10:24:57 27 May 10 HG
1005156-02

Hg	.037	ppb	.000	.037				

*** Sample ID: BCL-MW60 Seq: 48 10:26:48 27 May 10 HG
1005156-03

Hg	.012	ppb	.000	.012				

*** Sample ID: BCL-MW7SL Seq: 49 10:28:42 27 May 10 HG
1005156-06

Hg	.068	ppb	.000	.068				

*** Sample ID: BCL-MW5BL Seq: 50 10:31:09 27 May 10 HG
1005156-07

Hg	.043	ppb	.000	.043				

*** Sample ID: BCL-MW5B Seq: 51 10:33:01 27 May 10 HG
1005156-08

Hg	.073	ppb	.000	.073				

*** Sample ID: BCL-MW5SL Seq: 52 10:34:52 27 May 10 HG
1005156-09

Hg	.073	ppb	.000	.073				

*** Sample ID: BCL-MW22S Seq: 53 10:36:46 27 May 10 HG
1005156-11

Hg	.026	ppb	.000	.026				

*** Check Standard: 4 Ck4 CRI Seq: 54 10:38:49 27 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		113.	.226	.200	ppb	.000

*** Check Standard: 2 Ck2 CCV Seq: 55 10:40:41 27 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		105.	5.25	5.00	ppb	.000

```
Line   Conc.  Units     SD/RSD      1        2        3        4        5
-------------------------------------------------------------------------------

*** Check Standard: 1  Ck1 CCB      Seq:  56      10:42:41 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .006     .200     ppb         .000
                                                                              =
*** Sample ID: BCL-MW22B            Seq:  57      10:44:37 27 May 10   HG
                           1005156-16
Hg    .008    ppb        .000       .008
                                                                              =
===============================================================================
*** Sample ID: BCL-MW29B            Seq:  58      10:46:49 27 May 10   HG
                           1005156-17
Hg    .146    ppb        .000       .146
                                                                              =
===============================================================================
*** Sample ID: BCL-MW29S            Seq:  59      10:48:41 27 May 10   HG
                           1005156-18
Hg    .034    ppb        .000       .034
                                                                              =
===============================================================================
*** Sample ID: BCL-MW28S            Seq:  60      10:50:44 27 May 10   HG
                           1005156-19
Hg    .044    ppb        .000       .044
                                                                              =
===============================================================================
*** Sample ID: BCL-MW31S            Seq:  61      10:52:35 27 May 10   HG
                           1005156-20
Hg    .040    ppb        .000       .040
                                                                              =
===============================================================================
*** Sample ID: BCL-MW31B            Seq:  62      10:54:38 27 May 10   HG
                           1005156-21
Hg    .263    ppb        .000       .263
                                                                              =
===============================================================================
*** Sample ID: BCL-MW30S            Seq:  63      10:56:29 27 May 10   HG
                           1005156-22
Hg    .051    ppb        .000       .051
                                                                              =
*** Check Standard: 2  Ck2 CCV      Seq:  64      10:58:25 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          107.     5.36    5.00  ppb          .000
                                                                              =
*** Check Standard: 1  Ck1 CCB      Seq:  65      11:00:28 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.016     .200     ppb         .000
                                                                              =
*** Sample ID: BCL-MW22B            Seq:  66      11:02:21 27 May 10   HG
                           1005156-23
Hg   -.009    ppb        .000      -.009
                                                                              =
===============================================================================
*** Sample ID: BCL-MW23B            Seq:  67      11:04:28 27 May 10   HG
                           1005156-24
Hg    .014    ppb        .000       .014
                                                                              =
===============================================================================
*** Sample ID: BCL-MW23S            Seq:  68      11:06:26 27 May 10   HG
                           1005156-25
Hg    .381    ppb        .000       .381
                                                                              =
===============================================================================
```

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: BCL-MW23B				Seq: 69	11:08:19 27 May 10	HG		
				1005156-29				
Hg	.009	ppb	.000	.009				
*** Sample ID: BCL-MW25B				Seq: 70	11:10:10 27 May 10	HG		
				1005156-30				
Hg	.023	ppb	.000	.023				
*** Sample ID: PBW				Seq: 71	11:12:03 27 May 10	HG		
				0052613-BLK1				
Hg	.031	ppb	.000	.031				

*** Check Standard: 4 Ck4 CRI				Seq: 72	11:13:55 27 May 10	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg	H	134.	.267	.200	ppb	.000

*** Check Standard: 2 Ck2 CCV				Seq: 73	11:15:45 27 May 10	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		107.	5.34	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB				Seq: 74	11:17:39 27 May 10	HG
Line	Flag	Found	Range(+/-)	Units	SD/RSD	
Hg		.040	.200	ppb	.000	

*** Sample ID: LCSW				Seq: 75	11:19:31 27 May 10	HG
				0052613-BS1		
Hg	3.13	ppb	.000	3.13		
*** Sample ID: LCSWD				Seq: 76	11:21:22 27 May 10	HG
				0052613-BSD1		
Hg	3.08	ppb	.000	3.08		
*** Sample ID: EB051210-S				Seq: 77	11:23:15 27 May 10	HG
				1005131-01		
Hg	-.007	ppb	.000	-.007		
*** Sample ID: EB051310-S				Seq: 78	11:25:11 27 May 10	HG
				1005131-02		
Hg	.020	ppb	.000	.020		
*** Sample ID: BBG-FB0513				Seq: 79	11:27:25 27 May 10	HG
				1005131-03		
Hg	.033	ppb	.000	.033		
*** Sample ID: BBG-FB0518				Seq: 80	11:29:16 27 May 10	HG
				1005131-04		
Hg	.031	ppb	.000	.031		
*** Sample ID: EB051810-S				Seq: 81	11:31:13 27 May 10	HG
				1005131-05		
Hg	.038	ppb	.000	.038		

*** Check Standard: 2 Ck2 CCV				Seq: 82	11:33:09 27 May 10	HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		102.	5.09	5.00	ppb	.000

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 1 Ck1 CCB Seq: 83 11:35:00 27 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.064	.200	ppb	.000

=

5. Digestion and Distillation Logs

Logs shall be submitted in the following order: digestion logs for ICP, flame AA (if used), furnace AA (if used), and mercury preparations, followed by a copy of the distillation log for cyanide.

METALS/MERCURY PREPARATION LOG

Metals Method: 3010A / 6010B
Mercury Method: 7470A
Prepared By: JRO/DDS

Environmental Testing Laboratories — CompuChem — A Division Of Liberty Analytical Corp.

Preparation Date: 05-26-10
Preparation Time: 1400
Batch Number: 52612/13
Blue Water

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	SAMPLE TYPE	ICP Initial (mL)	ICP Final (mL)	HG Initial (mL)	HG Final (mL)	*Description Before	*Description After ICP	pH
0052612/13-BLK1	PBW	MB	50	50	100	100	CS / CL	CS / CL	N/A
0052612/13-BS1	LCSW	LCS	50	↓	100	↓	CS / CL	CS / CL	N/A
0052612/13-BSD1	LCSWD	LCSD	50	↓	100	↓	CS / CL	CS / CL	N/A
1005131-01	EB051210-SS	SAMPLE	50	↓	100	↓	CS / CL	CS / CL	L2
1005131-02	EB051310-SB	SAMPLE	50	↓	100	↓	CS / CL	CS / CL	L2
1005131-03	BBG-FB051310	SAMPLE	50	↓	100	↓	CS / CL	CS / CL	L2
1005131-04	BBG-FB051810	SAMPLE	50	↓	100	↓	CS / CL	CS / CL	L2
1005131-05	EB051810-SS	SAMPLE	50	↓	100	↓	CS / CL	CS / CL	L2
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	
							/	/	

Mercury Standards and QC S0 S0.2 S0.5S1 S5 S10 ICV ICB CRI CCV CCB

NOTE: All standards and QC for mercury were prepared at the same day as the associated samples. Refer to the attached.

Standard/QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

Record of Tempature/Time		
Hot Block Temp In:	95°	C
Hot Block Temp Out:	95°	C
Time Hg in water bath:	1415	
Time Hg out water bath:	1615	
Water Bath Temp In:	95°	C
Water Bath Temp Out:	95°	C

MS Reference

ICAP: 0.5 mL XCL-20
Ref #:

HG: 1.0mL 100ppb Hg
Ref#:

LCS Reference

ICAP: 5.0 mL of XCL-10XR
Ref #: 9C15003

HG: 3.0mL 100ppb Hg
Ref# HS10Hg05260100SB

* R=red, BL=blue, Y=yellow, G=green, O=orange, V=violet, W=white, CS=colorless, BR=brown, BK=black
GY= grey, F=fine, M=medium, C=coarse, CL=clear, CY=cloudy, OP=opaque

"The presence of the Chemist's/analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations requires documentation by the chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation."

Sample Verification Signature: _____
This signature corroborates that the sample identification numbers appearing on the digestion cups are the same as those appearing on the field sample containers.

Reviewed By: _____
Date: 060716

Shading has been applied to unused portions of this worksheet as a substitute for 'Z-out.

Standards/QC Preparation Log for ICP Metals/Mercury Page 1 of 3 **Case/SDG:** 100513 1
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION DATE
SULFURIC ACID (H_2SO_4)	9L30014	CALEDON	71645	12/15
NITRIC ACID (HNO_3)	0D25011	JT BAKER	J10027	04/13
POTASSIUM PERMANGANATE ($KMnO_4$)	0D13009	JT BAKER	J04613	04/13
HYDROCHLORIC ACID (HCL)	0D25012	CALEDON	72420	04/13
POTASSIUM PERSULFATE ($K_2S_2O_8$)	0A07004	JT BAKER	H44465	11/12
HYDROGEN PEROXIDE (H_2O_2)	0B18004	CALEDON	70692	01/11
STANDARDS				
XCL 20R	0B26007	HIGH PURITY	0925409	09/11/10
XCL LCS 10XR	9L15003	HIGH PURITY	0935232	12/10/10
ERA PPT (540)	0B24007	ERA	540	12/03/10
EPA LCS (0405)	1m2-186-23	EPA	0405	11/17/11
ICV-1 (0307)	0B04003	EPA	0307	03/12/11
ILM05.3 MATRIX SPIKE	0B23010	HIGH PURITY	1004722	02/18/11
SILVER (Ag) 100ppm	9L15009	HIGH PURITY	0934323	12/15/10
TCLP 500	9L21002	HIGH PURITY	0934202	12/10/10
ARSENIC (As) 1000ppm	9F17001	HIGH PURITY	0911221	12/05/10
MERCURY (Hg) 20ppm	9L15007	HIGH PURITY	0916320	06/15/10
ICV-5 (0508) Hg	0E20020	EPA	0508	05/17/2015

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 5-26-10

ENTERED BY: D. Dickens DATE: 5-26-10

REVIEWED BY: John Rech DATE: 5-26-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 2 of 3 **Case/SDG:** 100513(

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
Hg 100ppb-05-26-10-DD	Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water **(PREPARE DAILY)**
$K_2S_2O_8$- 05-20-10-ML Potassium Persulfate	Place in a 1000mL Erlenmeyer to a re-pipettor bottle **(PREPARE AS NEEDED)**
$KmnO_4$. 05-25-10 –DD Potassium Permanganate	Place in a 2000mL volumetric flask: 100.0g of $KmnO_4$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREARE AS NEEDED)**
HNO_3- 05-25-10 - DD Nitric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
HCl- 05-18-10 - DD Hydrochloric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HCl Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
Aqua Regia- 05-24-10 - DD	Place in a 1000mL container: 600mL of Concentrated HCL 200mL of Concentrated HNO3 **(PREPARE AS NEEDED)**

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log

[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dicken DATE: 5-26-10

DD. 5-26-10

ENTERED BY: D. Dicken DATE: ~~5-5~~ 5-26-10

REVIEWED BY: [signature] DATE: 5-26-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 3 of 3 **Case/SDG:** 1005131
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS	Resultant Analyte Concentration
ICV-5- 05-26-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of ICV-5 and 99mL of reagent water. Digest according to sample preparation instructions	4.0µg/L
S0/ICB/CCB- 05-26-10-DD	Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions	0.0µg/L
S0.2/CRA/CRI- 05-26-10-DD	Pipet into a 300mL BOD Bottle 0.2mL of Hg 100ppb and 99.8mL of reagent water Digest according to sample preparation instructions	0.2µg/L
S0.5- 05-26-10-DD	Pipet into a 300mL BOD Bottle 0.5mL of Hg 100ppb and 99.5mL of reagent water Digest according to sample preparation instructions	0.5µg/L
S1.0- 05-26-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of Hg 100ppb and 99mL of reagent water Digest according to sample preparation instructions	1.0µg/L
S5.0/CCV- 05-26-10-DD	Pipet into a 300mL BOD Bottle 5.0mL of Hg 100ppb and 95mL of reagent water Digest according to sample preparation instructions	5.0µg/L
S10.0- 05-26-10-DD	Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions	10.0µg/L

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 5-26-10

ENTERED BY: D. Dickens DATE: 5-26-10

REVIEWED BY: [signature] DATE: 5-26-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

C. Chain-of-Custody Documentation

The laboratory shall include a copy of the Chain-of-Custody (CoC) Documentation for all of the samples in the SDG. The CoC documentation shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24770

Page 1 of 1

171

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information		Project Information	
Company Name	CH2M HILL	Project Name	CTO-94
Address	5700 Cleveland St, Ste 101	Sampling Location	MCB Camp Lejeune
City / State / Zip	VA Beach / VA / 23462	Turnaround time	7
Project Contact	Rebekha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?	
Phone #	757-671-6279	Are aqueous samples field filtered for metals? Y or N	
Sampler's Name	K. Rogers / RDM	Are high concentrations expected? Y or N? If yes, which ID(s)?	

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (Share (1-8oz.) & 2 HCl)	TCL Pest. (8081A) (2 HCl) (1-50ml)	Total Metals (6010B)	Total Chromium (6010B)	Chromium VI (7196A) (1-125ml)	Grain Size (1-8oz.)		Grain Size			Remarks
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X						<2
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X		1005209-02			
-13	BBG-SS48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X				-03	
1005129-12	BBG-SS52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X				-04	
-13	BBG-SS57-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X				-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or N/A
625 & Phenol samples checked for chlorine? Y or N/A
608 samples checked for pH between 5.0-9.0? Y or N/A

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grain size to GT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

24773

172

Residual Chlorine Present? Yes _____ No ✓

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: S Forker / RDH

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	500 mL 6010B	125 mL 7196A	2AL 8081A	2AL 8270C									Matrix				
1005131-02	BBG-EB051310-SB	5-13-10	1200	QC-W	6			1				X	X	X	X									<2				
✓ -03	BBG-FB051310	5-13-10	1220	QC-W	6			1				X	X	X	X									<2				

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Custody Information

Relinquished by:	Date/Time: 5-13-10 / 1330	Received by: Diane Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24780

Page 1 of 1

173

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St, 101	Sampling Location: MCB CAMP LEJEUNE
City: Va Beach State: VA Zip: 23462	Turnaround time: PER Contract
Project Contact: Rebatcha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. Rogus	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Tot Metals (1-500m) 6010B	Tot Chromium 6010B (1-125)	Chromium VI 7196A (2-AL)	Semi PAH 8270C (2-AL)	TCL PEST 8081A (2-AL)	GRAIN SIZE ASTM D422						
100531-04	BBG-FB051810	5.18	1200	RI	6			1				X		X	X	X						<2	
↓ -05	BBG-EB051810-SS	5.18	1205	RI	6			1				X		X	X	X						<2	

Residual Chlorine Present?
Yes _____ No ✓

Sample Unpacked By: K. Manning	Cyanide samples checked for sulfide & chlorine? Y or NA
Sample Order Entry By:	625 & Phenol samples checked for chlorine? Y or NA
Samples Received in Good Condition? (Y) or N	608 samples checked for pH between 5.0-9.0? Y or NA
If no, explain:	

Relinquished by:	Date/Time: 5-18-10 1420	Received by: K. Manning	Date/Time: 5.19.10 0905
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where? | Custody Seal(s) intact? (Y) or N | On Ice? (Y) or N | Cooler Temp: 1.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-01	EB051210-SS	05/12/2010	05/13/2010	06/01/2010	BBG-EB051210-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-01	EB051210-SS	05/12/2010	05/13/2010	06/08/2010	BBG-EB051210-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-02	EB051310-SB	05/13/2010	05/14/2010	06/01/2010	BBG-EB051310-SB
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-02	EB051310-SB	05/13/2010	05/14/2010	06/08/2010	BBG-EB051310-SB
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-03	BBG-FB051310	05/13/2010	05/14/2010	06/01/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-03	BBG-FB051310	05/13/2010	05/14/2010	06/08/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-04	BBG-FB051810	05/18/2010	05/19/2010	06/01/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-04	BBG-FB051810	05/18/2010	05/19/2010	06/08/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-05	EB051810-SS	05/18/2010	05/19/2010	06/01/2010	BBG-EB051810-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-05	EB051810-SS	05/18/2010	05/19/2010	06/08/2010	BBG-EB051810-SS

WORK ORDER

1005131

Printed: 5/28/2010 6:52:09PM

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005131** **CASE:**	**Status:**	**[Group]**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/08/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/19/2010 09:05

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 21:57

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*LCS/LCSD*NOTE SAMPLING DATE*SIM 8270C=PAH.SUB*PEST 8081A* TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & ED

Analysis	Due	TAT	Expires	Received	Comments
1005131-01 EB051210-SS [Water] Sampled 05/12/2010 10:30 Eastern				**EQUIP.BLK**	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/08/2010 10:30	05/13/2010 09:30	
6010B METALS TAL	06/08/2010 16:00	20	11/08/2010 10:30	05/13/2010 09:30	
GC-8081A/PEST	06/08/2010 16:00	20	05/19/2010 10:30	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/19/2010 10:30	05/13/2010 09:30	SubList = SVsim- PAH
7470A/7471A Mercury	06/08/2010 16:00	20	06/09/2010 10:30	05/13/2010 09:30	
1005131-02 EB051310-SB [Water] Sampled 05/13/2010 12:00 Eastern				**EQUIP.BLK**	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/09/2010 12:00	05/14/2010 09:20	
6010B METALS TAL	06/08/2010 16:00	20	11/09/2010 12:00	05/14/2010 09:20	
GC-8081A/PEST	06/08/2010 16:00	20	05/20/2010 12:00	05/14/2010 09:20	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/10/2010 12:00	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/20/2010 12:00	05/14/2010 09:20	SubList = SVsim- PAH
1005131-03 BBG-FB051310 [Water] Sampled 05/13/2010 12:20 Eastern				**FIELD BLK**	
GC-8081A/PEST	06/08/2010 16:00	20	05/20/2010 12:20	05/14/2010 09:20	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/09/2010 12:20	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/20/2010 12:20	05/14/2010 09:20	SubList = SVsim- PAH
6010B METALS TAL	06/08/2010 16:00	20	11/09/2010 12:20	05/14/2010 09:20	
7470A/7471A Mercury	06/08/2010 16:00	20	06/10/2010 12:20	05/14/2010 09:20	

1005131

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005131** **CASE:**	**Status:**	**Batched**

Analysis	Due	TAT	Expires		Comments
1005131-04 BBG-FB051810 [Water] Sampled 05/18/2010 12:00 Eastern					**FIELD BLK**
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/25/2010 12:00	05/19/2010 09:05	SubList = SVsim- PAH
GC-8081A/PEST	06/08/2010 16:00	20	05/25/2010 12:00	05/19/2010 09:05	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/15/2010 12:00	05/19/2010 09:05	
6010B METALS TAL	06/08/2010 16:00	20	11/14/2010 12:00	05/19/2010 09:05	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/14/2010 12:00	05/19/2010 09:05	
1005131-05 EB051810-SS [Water] Sampled 05/18/2010 12:05 Eastern					**EQUIP. BLK**
GC-8081A/PEST	06/08/2010 16:00	20	05/25/2010 12:05	05/19/2010 09:05	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/15/2010 12:05	05/19/2010 09:05	
6010B METALS TAL	06/08/2010 16:00	20	11/14/2010 12:05	05/19/2010 09:05	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/14/2010 12:05	05/19/2010 09:05	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/25/2010 12:05	05/19/2010 09:05	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

INTERNAL DIGESTION COC

0052612

COMPUCHEM

Printed: 5/26/2010 12:22:03PM

Matrix: Water **Prepared using: METALS - EPA 3010A**

Lab Number	Client ID	Sample Type	
0052612-BLK1	PBW	Blank	
0052612-BS1	LCSW	LCS	
0052612-BSD1	LCSWD	LCS Dup	
1005131-01	EB051210-SS	Sample	
1005131-02	EB051310-SB	Sample	
1005131-03	BBG-FB051310	Sample	
1005131-04	BBG-FB051810	Sample	
1005131-05	EB051810-SS	Sample	

Relinquished By	Date: 05-26-10 1630	Received By: ICP Sts.	Date: 05-26-10 1630
Relinquished By	Date: 060210 1009	Received By	Date: 060210 1047
Relinquished By	Date: 060410 1430	Received By	Date: 0 60410 1430
Relinquished By	Date	Received By: 06-9-10	Date

INTERNAL DIGESTION COC

0052613

COMPUCHEM

Printed: 5/26/2010 12:21:57PM

Matrix: Water **Prepared using: METALS - EPA 7470A Prep**

Lab Number	Client ID	Sample Type	
0052613-BLK1	PBW	Blank	
0052613-BS1	LCSW	LCS	
0052613-BSD1	LCSWD	LCS Dup	
1005131-01	EB051210-SS	Sample	
1005131-02	EB051310-SB	Sample	
1005131-03	BBG-FB051310	Sample	
1005131-04	BBG-FB051810	Sample	
1005131-05	EB051810-SS	Sample	

Relinquished By	Date	Received By	Date
	05-26-10 1620	Hs Sts.	05-26-10 1620
Hg Sts	5/27/10 0800		5/27/10 0800
	5/27/10 1145	Waste	5/27/10 1145
		5/26-10	

Metals Internal Chain of Custody Sheet

Batch: 0052612 **Status:** Batched **Analysis**: 6010B METALS TAL

Lab Id	Client_Id	Received	Container	Extraction	Preservative	Matrix	Due Date	Cust Date
1005131-01 E	EB051210-SS	05/13/10	3n_500mL Plastic, HNO3	EPA 3010A	Add HNO3 to pH<2	Water	6/8/2010 4	5/16/2010
1005131-02 E	EB051310-SB	05/14/10	3n_500mL Plastic, HNO3	EPA 3010A	Add HNO3 to pH<2	Water	6/8/2010 4	5/17/2010
1005131-03 E	BBG-FB051310	05/14/10	3n_500mL Plastic, HNO3	EPA 3010A	Add HNO3 to pH<2	Water	6/8/2010 4	5/17/2010
1005131-04 E	BBG-FB051810	05/19/10	3n_500mL Plastic, HNO3	EPA 3010A	Add HNO3 to pH<2	Water	6/8/2010 4	5/25/2010
1005131-05 E	EB051810-SS	05/19/10	3n_500mL Plastic, HNO3	EPA 3010A	Add HNO3 to pH<2	Water	6/8/2010 4	5/25/2010

Ambient	05-26-10 1300	Jeh Reach	05-26-10 1300
Relinquished By	Date/Time	Received By	Date/Time
Jeh Reach	05-26-10 1700	Ambient	05-26-10 1700
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By 6-9-10	Date/Time

CompuChem

A Division Of

Liberty Analytical Corp.

6/15/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S. WorkOrder: 1005131

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005131

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005131

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005131-01	EB051210-SS	Water	05/12/2010 10:30	05/13/2010 09:30
1005131-02	EB051310-SB	Water	05/13/2010 12:00	05/14/2010 09:20
1005131-03	BBG-FB051310	Water	05/13/2010 12:20	05/14/2010 09:20
1005131-04	BBG-FB051810	Water	05/18/2010 12:00	05/19/2010 09:05
1005131-05	EB051810-SS	Water	05/18/2010 12:05	05/19/2010 09:05

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC by SW-846

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

A. SDG Narrative

B. Tabulated target compound results (Form I)

C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low, or Medium)

D. Spike results MS / MSD / LCS (Form III)

E. Blank data (Form IV)
Tabulated blank results (Form I)

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005131

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005131
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: BBG-FB051310, BBG-FB051810, EB051210-SS, EB051310-SB, EB051810-SS

The five water samples listed above were received intact, refrigerated between 0.7 and 2.3°C, with proper documentation, in sealed shipping containers, on May 13th, 14th, and 19th, 2010. The samples were scheduled for the requested analysis of the Pesticide fraction only. SW-846, 3rd Edition, Update 4, Method 8081B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # 1005131 are included in the sample data sections.

Pesticide

Extraction and analysis holding time requirements were met for the samples. Sample EB051210-SS was initially extracted within holding time with the incorrect spiking solution. The sample was re-extracted outside of holding time. Both sets of data were reported.

No target analytes confirmed above the reporting limits in the samples.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All surrogate recoveries were with the method specified limits.

The method blank associated with the samples met all quality control criteria.

Per client's request, duplicate matrix spike samples were not performed with this SDG, as the samples were various equipment and field blanks. The Laboratory Control Samples (LCS/LCSD) prepared and analyzed with the samples met recovery criteria, with the exception of the recovery of Endrin aldehyde in PBQLCS.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Teresa Amentt Jennings

Teresa Amentt Jennings
GC/HPLC Data Reviewer
June 7, 2010

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005131

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
✓	Restek	clpest	0.32	0.5	30
✓	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

GC and GC/MS Volatiles Laboratory		
Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C	
	* 1.2 cm Carbopack B	
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)	
	* 6 cm of Carboxen 1000 (Carbon molecular sieves)	
	* 1 cm of Carboxen 1001 (Carbon molecular sieves)	

Rev. 28

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

Revision 7 (12/6/2005)

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Form I

Organic Analysis Data Sheet (OADS)
- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-FB051310

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-03RE1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-FB051810

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-04

Sample wt/vol: 925.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.054	U
319-85-7	beta-BHC	0.0060	JP
319-84-6	alpha-BHC	0.054	U
319-86-8	delta-BHC	0.054	U
58-89-9	gamma-BHC (Lindane)	0.054	U
72-54-8	4,4'-DDD	0.11	U
72-55-9	4,4'-DDE	0.11	U
50-29-3	4,4'-DDT	0.11	U
60-57-1	Dieldrin	0.11	U
959-98-8	Endosulfan I	0.054	U
33213-65-9	Endosulfan II	0.11	U
1031-07-8	Endosulfan sulfate	0.11	U
72-20-8	Endrin	0.11	U
7421-93-4	Endrin Aldehyde	0.11	U
76-44-8	Heptachlor	0.054	U
1024-57-3	Heptachlor Epoxide	0.054	U
72-43-5	Methoxychlor	0.54	U
8001-35-2	Toxaphene	2.7	U
53494-70-5	Endrin Ketone	0.11	U
5103-74-2	gamma-Chlordane	0.054	U
5103-71-9	alpha-Chlordane	0.054	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051210-SS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/19/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051210-SSRE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-01RE1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051310-SB

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-02RE1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051810-SS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-05

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.0074	JP
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBQLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052020-BS1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.094	
319-85-7	beta-BHC	0.14	
319-84-6	alpha-BHC	0.14	
319-86-8	delta-BHC	0.15	
58-89-9	gamma-BHC (Lindane)	0.13	
72-54-8	4,4'-DDD	0.36	
72-55-9	4,4'-DDE	0.35	
50-29-3	4,4'-DDT	0.32	
60-57-1	Dieldrin	0.36	
959-98-8	Endosulfan I	0.14	
33213-65-9	Endosulfan II	0.35	
1031-07-8	Endosulfan sulfate	0.33	
72-20-8	Endrin	0.33	
7421-93-4	Endrin Aldehyde	0.20	
76-44-8	Heptachlor	0.14	
1024-57-3	Heptachlor Epoxide	0.16	
72-43-5	Methoxychlor	0.37	J
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.38	
5103-74-2	gamma-Chlordane	0.14	
5103-71-9	alpha-Chlordane	0.16	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBQLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052020-BSD1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.12	
319-85-7	beta-BHC	0.16	
319-84-6	alpha-BHC	0.16	
319-86-8	delta-BHC	0.17	
58-89-9	gamma-BHC (Lindane)	0.15	
72-54-8	4,4'-DDD	0.40	
72-55-9	4,4'-DDE	0.39	
50-29-3	4,4'-DDT	0.36	
60-57-1	Dieldrin	0.40	
959-98-8	Endosulfan I	0.15	
33213-65-9	Endosulfan II	0.39	
1031-07-8	Endosulfan sulfate	0.37	
72-20-8	Endrin	0.39	
7421-93-4	Endrin Aldehyde	0.23	
76-44-8	Heptachlor	0.16	
1024-57-3	Heptachlor Epoxide	0.18	
72-43-5	Methoxychlor	0.42	J
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.42	
5103-74-2	gamma-Chlordane	0.16	
5103-71-9	alpha-Chlordane	0.17	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCALCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052401-BS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.12	
319-85-7	beta-BHC	0.14	
319-84-6	alpha-BHC	0.15	
319-86-8	delta-BHC	0.16	
58-89-9	gamma-BHC (Lindane)	0.14	
72-54-8	4,4'-DDD	0.39	
72-55-9	4,4'-DDE	0.36	
50-29-3	4,4'-DDT	0.35	
60-57-1	Dieldrin	0.38	
959-98-8	Endosulfan I	0.14	
33213-65-9	Endosulfan II	0.38	
1031-07-8	Endosulfan sulfate	0.36	
72-20-8	Endrin	0.37	
7421-93-4	Endrin Aldehyde	0.29	
76-44-8	Heptachlor	0.16	
1024-57-3	Heptachlor Epoxide	0.16	
72-43-5	Methoxychlor	0.44	J
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.41	
5103-74-2	gamma-Chlordane	0.14	
5103-71-9	alpha-Chlordane	0.16	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCALCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052401-BSD1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.12	
319-85-7	beta-BHC	0.14	
319-84-6	alpha-BHC	0.14	
319-86-8	delta-BHC	0.15	
58-89-9	gamma-BHC (Lindane)	0.13	
72-54-8	4,4'-DDD	0.36	
72-55-9	4,4'-DDE	0.35	
50-29-3	4,4'-DDT	0.32	
60-57-1	Dieldrin	0.36	
959-98-8	Endosulfan I	0.13	
33213-65-9	Endosulfan II	0.34	
1031-07-8	Endosulfan sulfate	0.33	
72-20-8	Endrin	0.34	
7421-93-4	Endrin Aldehyde	0.26	
76-44-8	Heptachlor	0.15	
1024-57-3	Heptachlor Epoxide	0.15	
72-43-5	Methoxychlor	0.39	J
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.37	
5103-74-2	gamma-Chlordane	0.14	
5103-71-9	alpha-Chlordane	0.15	

C. Form II

Surrogate spike analysis

- By level (low, medium) -

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	TCX 1 %REC #	TCX 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKBM	87	83	80	78			0
02	EB051210-SS	84	79	69	75			0
03	PBLKBQ	90	90	90	82			0
04	PBQLCS	87	94	88	82			0
05	PBQLCSD	98	114	100	94			0
06	EB051210-SSR	91	90	87	90			0
07	EB051310-SB	89	85	88	91			0
08	BBG-FB051310	95	90	92	91			0
09	PBLKCA	100	88	99	89			0
10	PCALCS	120	100	100	91			0
11	PCALCSD	100	89	100	91			0
12	BBG-FB051810	110	94	97	92			0
13	EB051810-SS	110	89	100	97			0
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (30-135)
S2 (TCX) = Tetrachloro-m-Xylene (25-140)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results
- By level (low, medium) -
Laboratory Control Sample(s)

3E
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

LCS ID: PBQLCS Matrix Spike - EPA Sample No.: PBQLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aldrin	0.15		0.094	63	25-140
beta-BHC	0.15		0.14	93	65-125
alpha-BHC	0.15		0.14	93	60-130
delta-BHC	0.15		0.15	100	45-135
gamma-BHC (Lindane)	0.15		0.13	87	25-135
4,4'-DDD	0.38		0.36	95	25-150
4,4'-DDE	0.38		0.35	92	35-140
4,4'-DDT	0.38		0.32	84	45-140
Dieldrin	0.38		0.36	95	60-130
Endosulfan I	0.15		0.14	93	50-110
Endosulfan II	0.38		0.35	92	30-130
Endosulfan sulfate	0.38		0.33	87	55-135
Endrin	0.38		0.33	87	55-135
Endrin Aldehyde	0.38		0.20	53*	55-135
Heptachlor	0.15		0.14	93	40-130
Heptachlor Epoxide	0.15		0.16	107	60-130
Methoxychlor	0.38		0.37	97	55-150
Endrin Ketone	0.38		0.38	100	75-125
gamma-Chlordane	0.15		0.14	93	60-125
alpha-Chlordane	0.15		0.16	107	65-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3E
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

LCS ID: PBQLCS Matrix Spike - EPA Sample No.: PBQLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	0.15	0.12	80	24	40	25-140
beta-BHC	0.15	0.16	107	13	40	65-125
alpha-BHC	0.15	0.16	107	13	40	60-130
delta-BHC	0.15	0.17	113	12	40	45-135
gamma-BHC (Lindane)	0.15	0.15	100	14	40	25-135
4,4'-DDD	0.38	0.40	105	10	40	25-150
4,4'-DDE	0.38	0.39	103	11	40	35-140
4,4'-DDT	0.38	0.36	95	12	40	45-140
Dieldrin	0.38	0.40	105	10	40	60-130
Endosulfan I	0.15	0.15	100	7	40	50-110
Endosulfan II	0.38	0.39	103	11	40	30-130
Endosulfan sulfate	0.38	0.37	97	11	40	55-135
Endrin	0.38	0.39	103	17	40	55-135
Endrin Aldehyde	0.38	0.23	60	14	40	55-135
Heptachlor	0.15	0.16	107	13	40	40-130
Heptachlor Epoxide	0.15	0.18	120	12	40	60-130
Methoxychlor	0.38	0.42	110	13	40	55-150
Endrin Ketone	0.38	0.42	110	1	40	75-125
gamma-Chlordane	0.15	0.16	107	13	40	60-125
alpha-Chlordane	0.15	0.17	113	6	40	65-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 1 out of 40 outside limits

COMMENTS: _____

3E
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

LCS ID: PCALCS Matrix Spike - EPA Sample No.: PCALCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aldrin	0.15		0.12	80	50-150
beta-BHC	0.15		0.14	93	50-150
alpha-BHC	0.15		0.15	100	50-150
delta-BHC	0.15		0.16	107	50-150
gamma-BHC (Lindane)	0.15		0.14	93	50-150
4,4'-DDD	0.38		0.39	103	50-150
4,4'-DDE	0.38		0.36	95	50-150
4,4'-DDT	0.38		0.35	92	50-150
Dieldrin	0.38		0.38	100	50-150
Endosulfan I	0.15		0.14	93	50-150
Endosulfan II	0.38		0.38	100	50-150
Endosulfan sulfate	0.38		0.36	95	50-150
Endrin	0.38		0.37	97	50-150
Endrin Aldehyde	0.38		0.29	76	50-150
Heptachlor	0.15		0.16	107	50-150
Heptachlor Epoxide	0.15		0.16	107	50-150
Methoxychlor	0.38		0.44	116	50-150
Endrin Ketone	0.38		0.41	108	50-150
gamma-Chlordane	0.15		0.14	93	50-150
alpha-Chlordane	0.15		0.16	107	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3E
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

LCS ID: PCALCS Matrix Spike - EPA Sample No.: PCALCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	0.15	0.12	80	0	40	50-150
beta-BHC	0.15	0.14	93	0	40	50-150
alpha-BHC	0.15	0.14	93	7	40	50-150
delta-BHC	0.15	0.15	100	6	40	50-150
gamma-BHC (Lindane)	0.15	0.13	87	7	40	50-150
4,4'-DDD	0.38	0.36	95	8	40	50-150
4,4'-DDE	0.38	0.35	92	3	40	50-150
4,4'-DDT	0.38	0.32	84	9	40	50-150
Dieldrin	0.38	0.36	95	5	40	50-150
Endosulfan I	0.15	0.13	87	7	40	50-150
Endosulfan II	0.38	0.34	89	11	40	50-150
Endosulfan sulfate	0.38	0.33	87	9	40	50-150
Endrin	0.38	0.34	89	8	40	50-150
Endrin Aldehyde	0.38	0.26	68	11	40	50-150
Heptachlor	0.15	0.15	100	6	40	50-150
Heptachlor Epoxide	0.15	0.15	100	6	40	50-150
Methoxychlor	0.38	0.39	103	12	40	50-150
Endrin Ketone	0.38	0.37	97	10	40	50-150
gamma-Chlordane	0.15	0.14	93	0	40	50-150
alpha-Chlordane	0.15	0.15	100	6	40	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 40 outside limits

COMMENTS: _____

E. Form IV

Method Blank Results
Form IV, Form I

Method blank summary, OADS,
- In chronological order of analysis

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBM

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0051904-BLK1 Lab File ID: 381G0051904-BLK1

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 05/19/10

Date Analyzed (1): 05/19/10 Date Analyzed (2): 05/19/10

Time Analyzed (1): 1844 Time Analyzed (2): 1844

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EB051210-SS	1005131-01	05/19/10	05/19/10
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PBLKBM

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0051904-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/19/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBQ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052020-BLK1 Lab File ID: 410G0052020-BLK1

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 05/20/10

Date Analyzed (1): 05/21/10 Date Analyzed (2): 05/21/10

Time Analyzed (1): 1142 Time Analyzed (2): 1142

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBQLCS	0052020-BS1	05/21/10	05/21/10
02	PBQLCSD	0052020-BSD1	05/21/10	05/21/10
03	EB051210-SSR	1005131-01RE1	05/21/10	05/21/10
04	EB051310-SB	1005131-02RE1	05/21/10	05/21/10
05	BBG-FB051310	1005131-03RE1	05/21/10	05/21/10
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKBQ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052020-BLK1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKCA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052401-BLK1 Lab File ID: 016E0052401-BLK1

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 05/24/10

Date Analyzed (1): 05/29/10 Date Analyzed (2): 05/29/10

Time Analyzed (1): 0103 Time Analyzed (2): 0103

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PCALCS	0052401-BS1	05/29/10	05/29/10
02	PCALCSD	0052401-BSD1	05/29/10	05/29/10
03	BBG-FB051810	1005131-04	05/29/10	05/29/10
04	EB051810-SS	1005131-05	05/29/10	05/29/10
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PBLKCA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052401-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.0093	JP
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC by SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalysis, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005131

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005131
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: BBG-FB051310, BBG-FB051810, EB051210-SS, EB051310-SB, EB051810-SS

The five water samples listed above were received intact, refrigerated between 0.7 and 2.3°C, with proper documentation, in sealed shipping containers, on May 13th, 14th, and 19th, 2010. The samples were scheduled for the requested analysis of the Pesticide fraction only. SW-846, 3rd Edition, Update 4, Method 8081B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # 1005131 are included in the sample data sections.

Pesticide

Extraction and analysis holding time requirements were met for the samples. Sample EB051210-SS was initially extracted within holding time with the incorrect spiking solution. The sample was re-extracted outside of holding time. Both sets of data were reported.

No target analytes confirmed above the reporting limits in the samples.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All surrogate recoveries were with the method specified limits.

The method blank associated with the samples met all quality control criteria.

Per client's request, duplicate matrix spike samples were not performed with this SDG, as the samples were various equipment and field blanks. The Laboratory Control Samples (LCS/LCSD) prepared and analyzed with the samples met recovery criteria, with the exception of the recovery of Endrin aldehyde in PBQLCS.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Teresa Amentt Jennings
GC/HPLC Data Reviewer
June 7, 2010

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005131

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
✓	Restek	clpest	0.32	0.5	30
✓	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

GC and GC/MS Volatiles Laboratory	
Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
	* 1.2 cm Carbopack B
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
	* 6 cm of Carboxen 1000 (Carbon molecular sieves)
	* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

Revision 7 (12/6/2005)

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported.
For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24770

43

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Report to Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, Ste 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDN

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis and Container Information

Lab ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (Share (1-8oz) 2-HL)	TCL Pest. (8081A) (2-HL)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B)	Chromium VI (7196A) (1-125ml)	Grain Size (1-8oz.)		Grain Size			
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X						<2
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X		1005209-02			
-13	BBG-SB48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X					-03
1005129-12	BBG-SB52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X					-04
-13	BBG-SB57-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X					-05

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Gram size to GT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24773

44

CompuChem
a division of Liberty Analytical Corp.

Residual Chlorine Present? Yes ____ No ✓

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: S Forker / RDH

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	500 mL 6010B	125 mL 7196A	2AL 8081A	2AL 8270C	MS/MSD
1005131-02	BBG-EB051310-SB	5-13-10	1200	QC-W	6			1				X	X	X	X	<2
-03	BBG-FB051310	5-13-10	1220	QC-W	6			1				X	X	X	X	<2

Lab Use Only

Sample Unpacked By: Diane Dyed
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Relinquished by: S Forker	Date/Time: 5-13-10 / 1330	Received by: Diane Dyed	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24780

Page 1 of 1

45

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: Va Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMP LEJEUNE
Turnaround time: PER Contract
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	Tot Metals 6010B (1-500mL)	Tot Chromium 6010B	Chromium VI 7196A (1-125mL)	SVOA PAH 8270C (2-AL)	TCL PEST 8081A (2-AL)	GRAIN SIZE ASTM D422					Temp °C				
100513I-04	BBG-FB051810	5.18	1200	RI	6			1				X		X	X	X						<2				
↓ 05	BBG-EB051810-SS	5.18	1205	RI	6			1				X		X	X	X						<2				

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Residual Chlorine Present?
Yes ____ No ✓

Lab Comments

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition: (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Sample Custody

Relinquished by:	Date/Time: 5-18-10 1420	Received by: K. Manning	Date/Time: 5.19.10 0905
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0010

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-01	EB051210-SS	05/12/2010	05/13/2010	06/01/2010	BBG-EB051210-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-01	EB051210-SS	05/12/2010	05/13/2010	06/08/2010	BBG-EB051210-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-02	EB051310-SB	05/13/2010	05/14/2010	06/01/2010	BBG-EB051310-SB
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-02	EB051310-SB	05/13/2010	05/14/2010	06/08/2010	BBG-EB051310-SB
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-03	BBG-FB051310	05/13/2010	05/14/2010	06/01/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-03	BBG-FB051310	05/13/2010	05/14/2010	06/08/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-04	BBG-FB051810	05/18/2010	05/19/2010	06/01/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-04	BBG-FB051810	05/18/2010	05/19/2010	06/08/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-05	EB051810-SS	05/18/2010	05/19/2010	06/01/2010	BBG-EB051810-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-05	EB051810-SS	05/18/2010	05/19/2010	06/08/2010	BBG-EB051810-SS

WORK ORDER

Printed: 5/28/2010 6:52:09PM

1005131

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005131** **CASE:**	**Status:**	**[Group]**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/08/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/19/2010 09:05

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 21:57

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*LCS/LCSD*NOTE SAMPLING DATE*SIM 8270C=PAH.SUB*PEST 8081A* TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & ED

Analysis	Due	TAT	Expires	Received	Comments
1005131-01 EB051210-SS [Water] Sampled 05/12/2010 10:30 Eastern				**EQUIP.BLK**	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/08/2010 10:30	05/13/2010 09:30	
6010B METALS TAL	06/08/2010 16:00	20	11/08/2010 10:30	05/13/2010 09:30	
GC-8081A/PEST	06/08/2010 16:00	20	05/19/2010 10:30	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/19/2010 10:30	05/13/2010 09:30	SubList = SVsim- PAH
7470A/7471A Mercury	06/08/2010 16:00	20	06/09/2010 10:30	05/13/2010 09:30	
1005131-02 EB051310-SB [Water] Sampled 05/13/2010 12:00 Eastern				**EQUIP.BLK**	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/09/2010 12:00	05/14/2010 09:20	
6010B METALS TAL	06/08/2010 16:00	20	11/09/2010 12:00	05/14/2010 09:20	
GC-8081A/PEST	06/08/2010 16:00	20	05/20/2010 12:00	05/14/2010 09:20	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/10/2010 12:00	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/20/2010 12:00	05/14/2010 09:20	SubList = SVsim- PAH
1005131-03 BBG-FB051310 [Water] Sampled 05/13/2010 12:20 Eastern				**FIELD BLK**	
GC-8081A/PEST	06/08/2010 16:00	20	05/20/2010 12:20	05/14/2010 09:20	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/09/2010 12:20	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/20/2010 12:20	05/14/2010 09:20	SubList = SVsim- PAH
6010B METALS TAL	06/08/2010 16:00	20	11/09/2010 12:20	05/14/2010 09:20	
7470A/7471A Mercury	06/08/2010 16:00	20	06/10/2010 12:20	05/14/2010 09:20	

WORK ORDER

Printed: 5/28/2010 6:52:09PM

1005131

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005131** **CASE:**	**Status:**	**Batched**

Analysis	Due	TAT	Expires		Comments
1005131-04 BBG-FB051810 [Water] Sampled 05/18/2010 12:00 Eastern					**FIELD BLK**
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/25/2010 12:00	05/19/2010 09:05	SubList = SVsim- PAH
GC-8081A/PEST	06/08/2010 16:00	20	05/25/2010 12:00	05/19/2010 09:05	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/15/2010 12:00	05/19/2010 09:05	
6010B METALS TAL	06/08/2010 16:00	20	11/14/2010 12:00	05/19/2010 09:05	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/14/2010 12:00	05/19/2010 09:05	
1005131-05 EB051810-SS [Water] Sampled 05/18/2010 12:05 Eastern					**EQUIP. BLK**
GC-8081A/PEST	06/08/2010 16:00	20	05/25/2010 12:05	05/19/2010 09:05	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/15/2010 12:05	05/19/2010 09:05	
6010B METALS TAL	06/08/2010 16:00	20	11/14/2010 12:05	05/19/2010 09:05	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/14/2010 12:05	05/19/2010 09:05	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/25/2010 12:05	05/19/2010 09:05	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

DEPT: EXTR **DATE:** 5-20-10

BATCH: 0052020

5-20-3

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0052020-BLK1	PBLKBQ		
2	0052020-BS1	PBQLCS		
3	0052020-BSD1	PBQLCSD		
4	1005131-01RE1	EB051210-SS		
5	1005131-02RE1	EB051310-SB		
6	1005131-03RE1	BBG-FB051310		
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				

	RELINQUISHED BY	DATE/TIME	REC. BY	REASON
1		5/20/10 1530	GC refrig #3	storage
2	GC#3	5/20/10 1600	AHW	login
3	AHW	↓ ↓	GC#4	storage
4				
5				
6				

TAJ 6/9/10

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

DEPT: EXTR 5-24-5 DATE: 5-24-10

BATCH: 0052401

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	TAT
1	0052401-BLK1	PBLKCA		
2	0052401-BS1	PCALCS		
3	0052401-BSD1	PCALCSD		
4	1005131-04	BBG-FB051810		
5	1005131-05	EB051810-SS		
6	1005158-01	AOC8-MW-35		
7	1005158-02	AOC8-MW-35D		
8	1005158-03	AOC8-MW-36		
9	1005158-04	ER051910		
10	1005158-05	AOC8-MW-37		
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				

RELINQUISHED BY	DATE/TIME	REC. BY	REASON
MLott	5-24-10/5:55pm	GC Ref #3	Storage
GC#3	5/24/10 1900	AHW	Storage
AHW	5/24/10 1700	GC #4	Storage

Rev. 12/29/09:RM

TAJ 6/5/10

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005131

1. QC Summary

a. Surrogate Percent Recovery Summary (Form II)

b. Matrix Spike/Matrix Spike Duplicate/
Laboratory Control Sample Summary
(Form III)

c. Method Blank Summary (Form IV)

a. Surrogate Percent Recovery Summary

(Form II)

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	TCX 1 %REC #	TCX 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKBM	87	83	80	78			0
02	EB051210-SS	84	79	69	75			0
03	PBLKBQ	90	90	90	82			0
04	PBQLCS	87	94	88	82			0
05	PBQLCSD	98	114	100	94			0
06	EB051210-SSR	91	90	87	90			0
07	EB051310-SB	89	85	88	91			0
08	BBG-FB051310	95	90	92	91			0
09	PBLKCA	100	88	99	89			0
10	PCALCS	120	100	100	91			0
11	PCALCSD	100	89	100	91			0
12	BBG-FB051810	110	94	97	92			0
13	EB051810-SS	110	89	100	97			0
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (30-135)
S2 (TCX) = Tetrachloro-m-Xylene (25-140)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

b. Matrix Spike/Matrix Spike Duplicate/
Laboratory Control Sample Summary

(Form III)

3E
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

LCS ID: PBQLCS Matrix Spike - EPA Sample No.: PBQLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aldrin	0.15		0.094	63	25-140
beta-BHC	0.15		0.14	93	65-125
alpha-BHC	0.15		0.14	93	60-130
delta-BHC	0.15		0.15	100	45-135
gamma-BHC (Lindane)	0.15		0.13	87	25-135
4,4'-DDD	0.38		0.36	95	25-150
4,4'-DDE	0.38		0.35	92	35-140
4,4'-DDT	0.38		0.32	84	45-140
Dieldrin	0.38		0.36	95	60-130
Endosulfan I	0.15		0.14	93	50-110
Endosulfan II	0.38		0.35	92	30-130
Endosulfan sulfate	0.38		0.33	87	55-135
Endrin	0.38		0.33	87	55-135
Endrin Aldehyde	0.38		0.20	53*	55-135
Heptachlor	0.15		0.14	93	40-130
Heptachlor Epoxide	0.15		0.16	107	60-130
Methoxychlor	0.38		0.37	97	55-150
Endrin Ketone	0.38		0.38	100	75-125
gamma-Chlordane	0.15		0.14	93	60-125
alpha-Chlordane	0.15		0.16	107	65-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3E
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

LCS ID: PBQLCS Matrix Spike - EPA Sample No.: PBQLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	0.15	0.12	80	24	40	25-140
beta-BHC	0.15	0.16	107	13	40	65-125
alpha-BHC	0.15	0.16	107	13	40	60-130
delta-BHC	0.15	0.17	113	12	40	45-135
gamma-BHC (Lindane)	0.15	0.15	100	14	40	25-135
4,4'-DDD	0.38	0.40	105	10	40	25-150
4,4'-DDE	0.38	0.39	103	11	40	35-140
4,4'-DDT	0.38	0.36	95	12	40	45-140
Dieldrin	0.38	0.40	105	10	40	60-130
Endosulfan I	0.15	0.15	100	7	40	50-110
Endosulfan II	0.38	0.39	103	11	40	30-130
Endosulfan sulfate	0.38	0.37	97	11	40	55-135
Endrin	0.38	0.39	103	17	40	55-135
Endrin Aldehyde	0.38	0.23	60	14	40	55-135
Heptachlor	0.15	0.16	107	13	40	40-130
Heptachlor Epoxide	0.15	0.18	120	12	40	60-130
Methoxychlor	0.38	0.42	110	13	40	55-150
Endrin Ketone	0.38	0.42	110	1	40	75-125
gamma-Chlordane	0.15	0.16	107	13	40	60-125
alpha-Chlordane	0.15	0.17	113	6	40	65-125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 1 out of 40 outside limits

COMMENTS: _____

3E
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

LCS ID: PCALCS Matrix Spike - EPA Sample No.: PCALCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Aldrin	0.15		0.12	80	50-150
beta-BHC	0.15		0.14	93	50-150
alpha-BHC	0.15		0.15	100	50-150
delta-BHC	0.15		0.16	107	50-150
gamma-BHC (Lindane)	0.15		0.14	93	50-150
4,4'-DDD	0.38		0.39	103	50-150
4,4'-DDE	0.38		0.36	95	50-150
4,4'-DDT	0.38		0.35	92	50-150
Dieldrin	0.38		0.38	100	50-150
Endosulfan I	0.15		0.14	93	50-150
Endosulfan II	0.38		0.38	100	50-150
Endosulfan sulfate	0.38		0.36	95	50-150
Endrin	0.38		0.37	97	50-150
Endrin Aldehyde	0.38		0.29	76	50-150
Heptachlor	0.15		0.16	107	50-150
Heptachlor Epoxide	0.15		0.16	107	50-150
Methoxychlor	0.38		0.44	116	50-150
Endrin Ketone	0.38		0.41	108	50-150
gamma-Chlordane	0.15		0.14	93	50-150
alpha-Chlordane	0.15		0.16	107	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3E
WATER PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

LCS ID: PCALCS Matrix Spike - EPA Sample No.: PCALCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	0.15	0.12	80	0	40	50-150
beta-BHC	0.15	0.14	93	0	40	50-150
alpha-BHC	0.15	0.14	93	7	40	50-150
delta-BHC	0.15	0.15	100	6	40	50-150
gamma-BHC (Lindane)	0.15	0.13	87	7	40	50-150
4,4'-DDD	0.38	0.36	95	8	40	50-150
4,4'-DDE	0.38	0.35	92	3	40	50-150
4,4'-DDT	0.38	0.32	84	9	40	50-150
Dieldrin	0.38	0.36	95	5	40	50-150
Endosulfan I	0.15	0.13	87	7	40	50-150
Endosulfan II	0.38	0.34	89	11	40	50-150
Endosulfan sulfate	0.38	0.33	87	9	40	50-150
Endrin	0.38	0.34	89	8	40	50-150
Endrin Aldehyde	0.38	0.26	68	11	40	50-150
Heptachlor	0.15	0.15	100	6	40	50-150
Heptachlor Epoxide	0.15	0.15	100	6	40	50-150
Methoxychlor	0.38	0.39	103	12	40	50-150
Endrin Ketone	0.38	0.37	97	10	40	50-150
gamma-Chlordane	0.15	0.14	93	0	40	50-150
alpha-Chlordane	0.15	0.15	100	6	40	50-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 40 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBM

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0051904-BLK1 Lab File ID: 381G0051904-BLK1

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 05/19/10

Date Analyzed (1): 05/19/10 Date Analyzed (2): 05/19/10

Time Analyzed (1): 1844 Time Analyzed (2): 1844

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EB051210-SS	1005131-01	05/19/10	05/19/10
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBQ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052020-BLK1 Lab File ID: 410G0052020-BLK1

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 05/20/10

Date Analyzed (1): 05/21/10 Date Analyzed (2): 05/21/10

Time Analyzed (1): 1142 Time Analyzed (2): 1142

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBQLCS	0052020-BS1	05/21/10	05/21/10
02	PBQLCSD	0052020-BSD1	05/21/10	05/21/10
03	EB051210-SSR	1005131-01RE1	05/21/10	05/21/10
04	EB051310-SB	1005131-02RE1	05/21/10	05/21/10
05	BBG-FB051310	1005131-03RE1	05/21/10	05/21/10
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKCA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052401-BLK1 Lab File ID: 016E0052401-BLK1

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 05/24/10

Date Analyzed (1): 05/29/10 Date Analyzed (2): 05/29/10

Time Analyzed (1): 0103 Time Analyzed (2): 0103

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PCALCS	0052401-BS1	05/29/10	05/29/10
02	PCALCSD	0052401-BSD1	05/29/10	05/29/10
03	BBG-FB051810	1005131-04	05/29/10	05/29/10
04	EB051810-SS	1005131-05	05/29/10	05/29/10
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I), followed by the raw data for samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results

Tabulated results (identification and quantitation) shall be included.

b. Copies of Chromatograms

Positively identified compounds shall be labeled with the names of compounds, either directly out from the peak on the chromatogram, or on a printout of retention times on the data system printout if retention times are printed over the peak on the chromatogram. Included for each sample or sample extract, dilutions, and reanalysis. The chromatogram shall contain the following header information: Client Sample ID number, volume injected (uL), date and time of injection, GC column ID, and GC instrument ID.

c. Copies of Chromatograms from the Second Column

(if necessary)

d. Data System Printout

A printout of retention time and corresponding peak height or peak Area shall accompany each chromatogram. Where edits have been Made, initialing, dating and integration time range are required.

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

BBG-FB051310

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-03RE1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zk.b/415g1005131-03RE1.d

Page 1

Date : 21-MAY-2010 14:07

Client ID: BBG-FB051310

Instrument: tracegc84.i

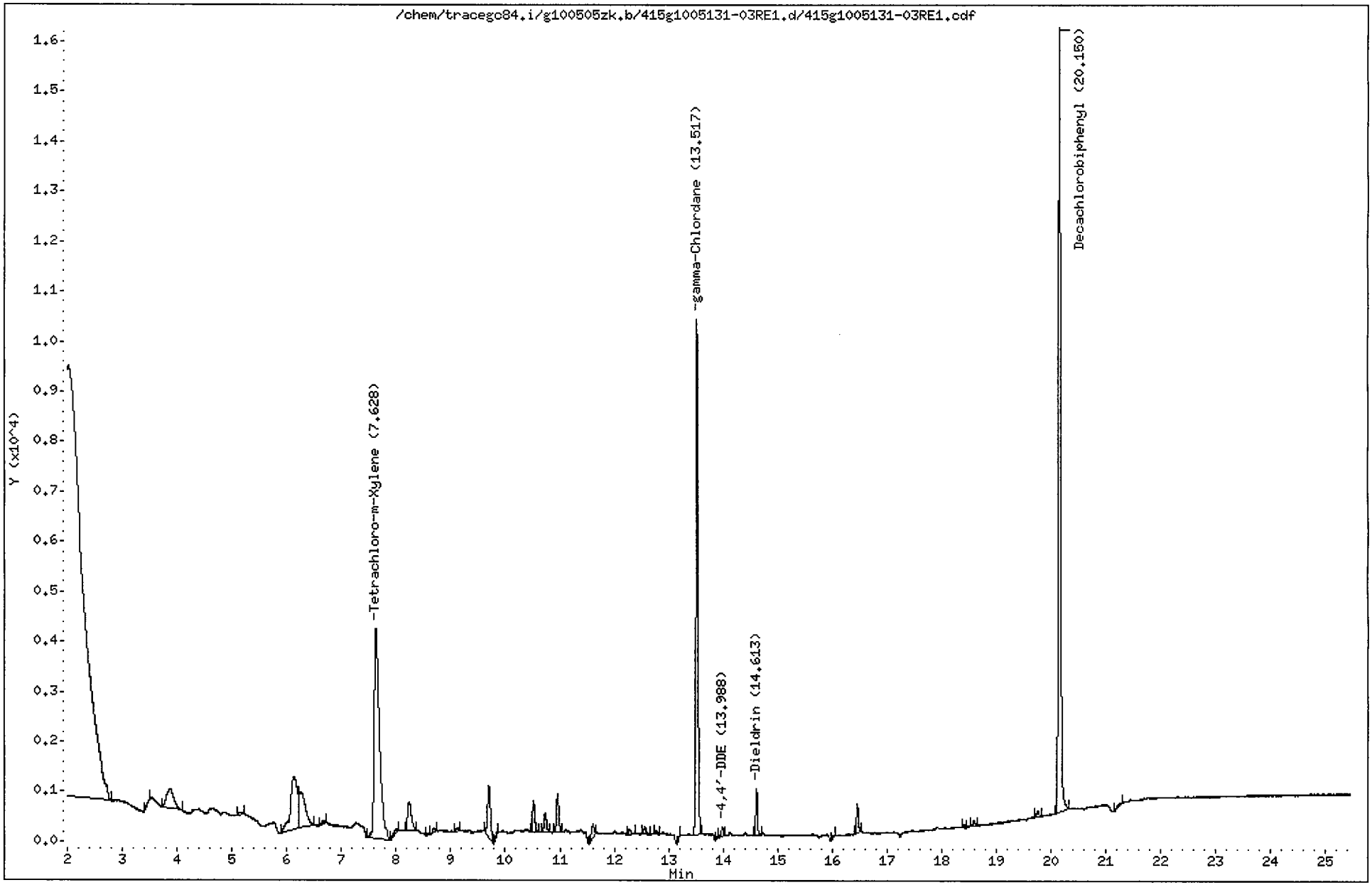
Sample Info: 1005131-03RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-03RE1 Client Smp Id : BBG-FB051310
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 21-MAY-2010 14:07 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : BBG-FB051310

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.44		132699								
2.02		265717								
3.50		123								
3.88		3636								
5.16		189								
6.12		9502								
6.25		5679								
6.66		216								
7.63	7.56 7.70	28259	511075	Tetrachloro-m-Xylene	0.055293	0.276466		92.2	25 - 140	
8.01		314								
8.24		2932								
8.58		131								
8.69		306								
9.12		223								
9.70		3877								
9.86		233								
10.52		1889								
10.73		1128								
10.96		2262								
11.61		986								
12.29		323								
12.56		447								
12.78		160								
13.21		121								
13.52	13.45 13.59	25657	579092	gamma-Chlordane	0.044306	0.221528	0.050000			
13.91		164								
13.99	13.94 14.08	619	515756	4,4'-DDE	0.001200	0.006001	0.100000			J
14.61	14.57 14.71	2089	512808	Dieldrin	0.004074	0.020368	0.100000			J
16.05		130								
16.46		1389								
18.41		158								
18.59		345								
19.75		311								
20.15	20.08 20.22	42396	372435	Decachlorobiphenyl	0.113832	0.569160		94.9	30 - 135	
21.29		180								

5/24/10

Data File: /chem/tracegc84.i/g100505zk_2C.b/415g1005131-03RE1.d

Date : 21-MAY-2010 14:07

Client ID: BBG-FB051310

Instrument: tracegc84.i

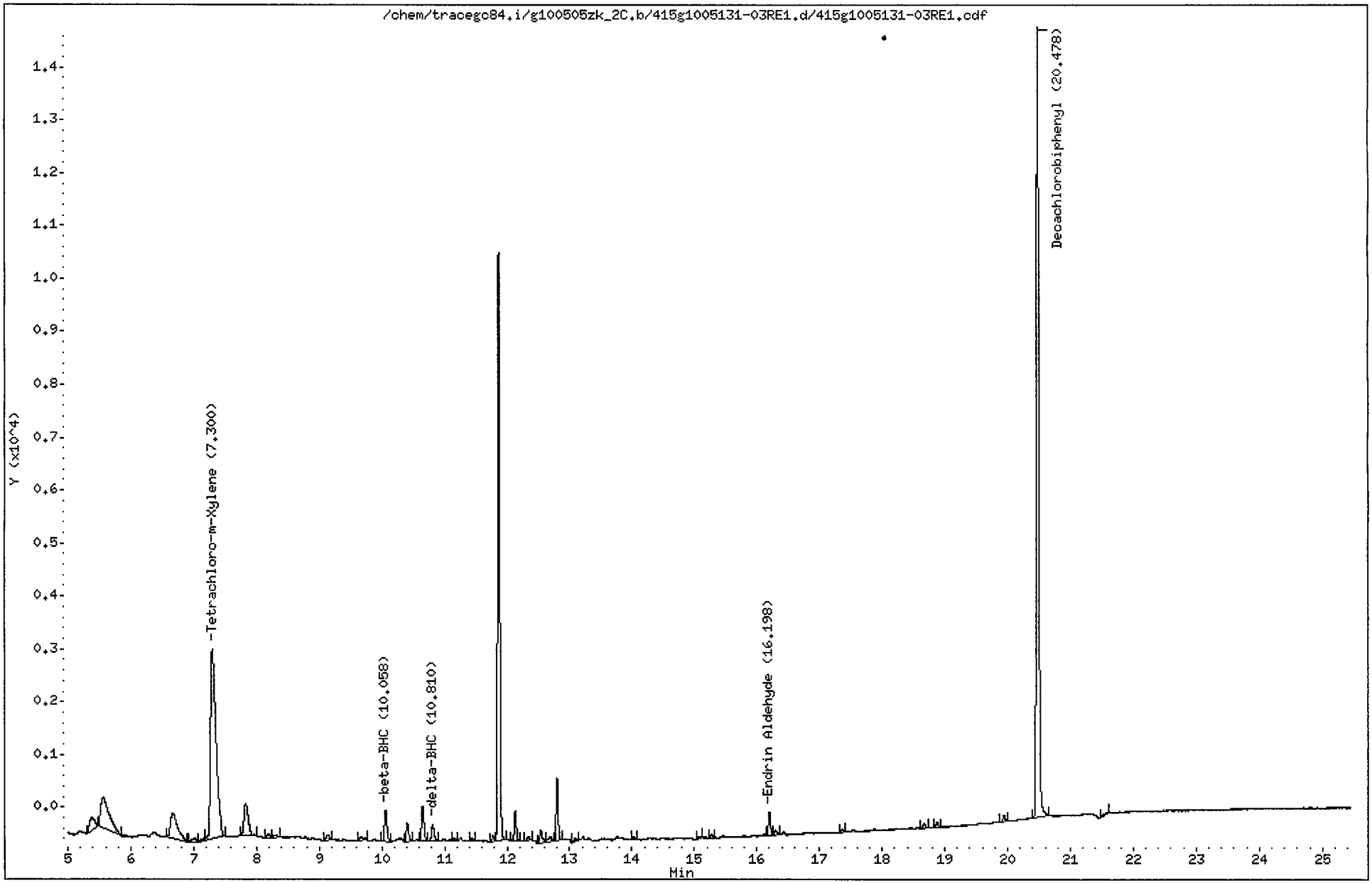
Sample Info: 1005131-03RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-03RE1 Client Smp Id : BBG-FB051310
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 21-MAY-2010 14:07 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : BBG-FB051310

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.38			25373								
1.77			244619								
2.81			93								
3.23			403								
4.00			245								
5.39			1366								
5.57			5615								
6.67			3833								
7.02			442								
7.18			224								
7.30	7.24	7.38	22293	407875	Tetrachloro-m-Xylene	0.054656	0.273282		91.1	25 - 140	
7.83			2795								
8.19			227								
8.29			182								
9.13			282								
9.67			270								
10.06	10.00	10.14	1635	246982	beta-BHC	0.006616	0.033079	0.050000			J
10.40			905								
10.65			1763								
10.81	10.69	10.83	928	527058	delta-BHC	0.001761	0.008804	0.050000			J
11.15			113								
11.43			126								
11.78			253								
11.87			26358								
12.13			1246								
12.34			192								
12.54			744								
12.69			385								
12.80			2612								
13.10			134								
14.02			111								
15.10			106								
15.27			146								
16.20	16.12	16.26	998	284671	Endrin Aldehyde	0.003506	0.017529	0.100000			J
16.30			251								
17.37			112								
18.67			228								

Keith 5/24/10

CompuChem

Lab Smp Id : 1005131-03RE1 Client Smp Id : BBG-FB051310
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 21-MAY-2010 14:07 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : BBG-FB051310

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
18.87		258								
19.94		311								
20.48	20.41 20.55	38824	358404	Decachlorobiphenyl	0.108325	0.541624		90.3	30 - 135	
21.60		140								

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

BBG-FB051810

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-04

Sample wt/vol: 925.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.054	U
319-85-7	beta-BHC	0.0060	JP
319-84-6	alpha-BHC	0.054	U
319-86-8	delta-BHC	0.054	U
58-89-9	gamma-BHC (Lindane)	0.054	U
72-54-8	4,4'-DDD	0.11	U
72-55-9	4,4'-DDE	0.11	U
50-29-3	4,4'-DDT	0.11	U
60-57-1	Dieldrin	0.11	U
959-98-8	Endosulfan I	0.054	U
33213-65-9	Endosulfan II	0.11	U
1031-07-8	Endosulfan sulfate	0.11	U
72-20-8	Endrin	0.11	U
7421-93-4	Endrin Aldehyde	0.11	U
76-44-8	Heptachlor	0.054	U
1024-57-3	Heptachlor Epoxide	0.054	U
72-43-5	Methoxychlor	0.54	U
8001-35-2	Toxaphene	2.7	U
53494-70-5	Endrin Ketone	0.11	U
5103-74-2	gamma-Chlordane	0.054	U
5103-71-9	alpha-Chlordane	0.054	U

Data File: /chem/tracegc82.i/e100528a_DOD.b/019e1005131-04.d

Date : 29-MAY-2010 02:30

Client ID: BBG-FB051810

Instrument: tracegc82.i

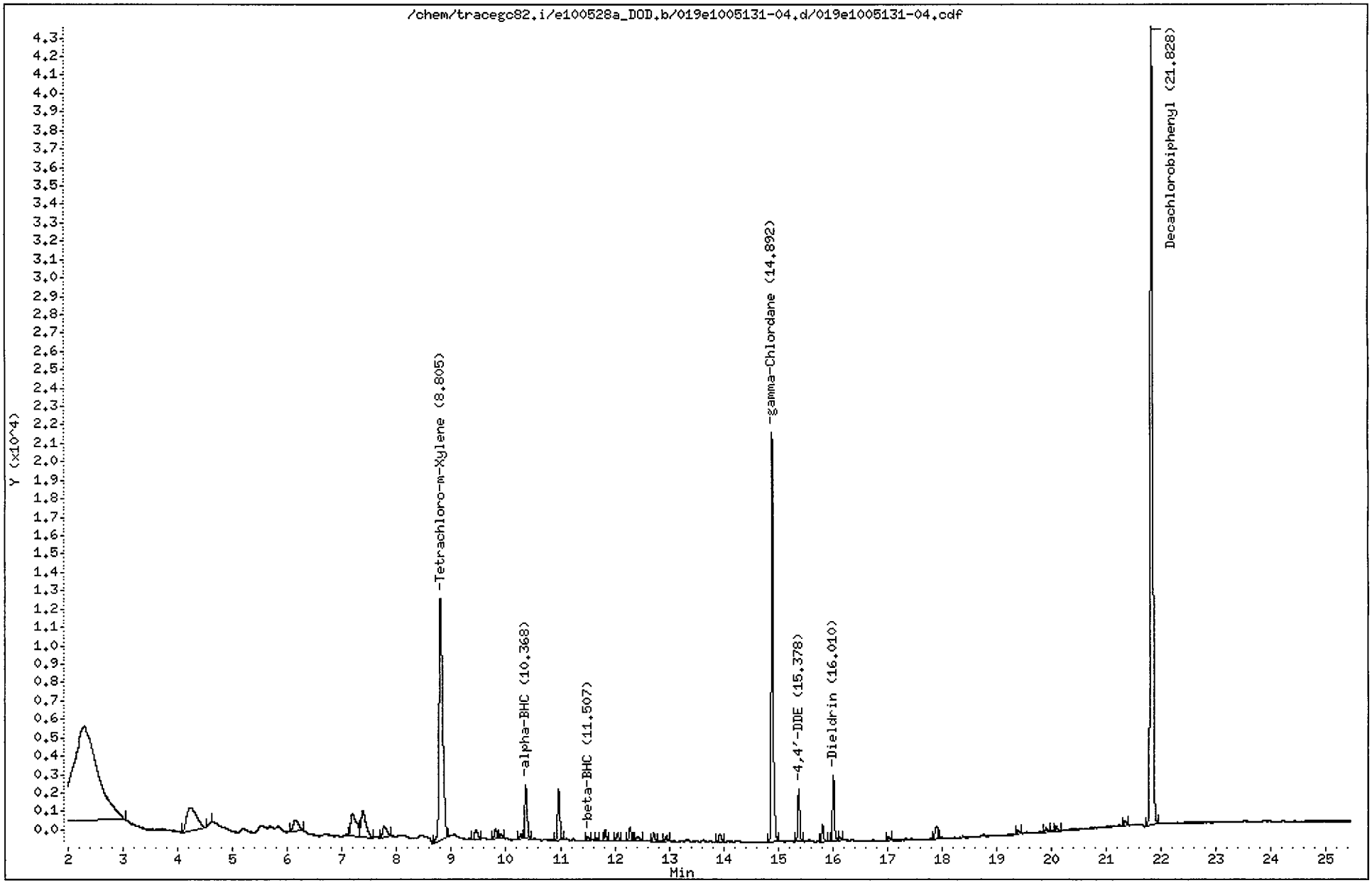
Sample Info: 1005131-04

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-04 Client Smp Id : BBG-FB051810
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 02:30 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a_DOD.b/8081A_clpestv6.m
Misc. Info : BBG-FB051810

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 925.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.51			143882								
2.30			157619								
4.21			15996								
4.61			322								
6.15			4266								
7.19			8789								
7.38			8872								
7.77			3211								
8.80	8.73	8.87	60278	1040565	Tetrachloro-m-Xylene	0.057928	0.313125		96.5	25 - 140	
9.45			2258								
9.81			1596								
9.91			615								
10.28			663								
10.37	10.32	10.46	8623	1883720	alpha-BHC	0.004577	0.024741	0.054054			J
10.97			8051								
11.51	11.41	11.55	745	671198	beta-BHC	0.001110	0.006000	0.054054			J
11.67			323								
11.83			1598								
12.05			1310								
12.28			1968								
12.41			1036								
12.72			1244								
12.95			749								
13.94			1566								
14.89	14.84	14.98	54038	1446418	gamma-Chlordane	0.037360	0.201945	0.054054			
15.38	15.33	15.47	6846	1321226	4,4'-DDE	0.005182	0.028008	0.108108			J
15.81			2232								
16.01	15.99	16.13	8582	1325039	Dieldrin	0.006476	0.035006	0.108108			J
16.13			292								
17.02			383								
17.91			2417								
19.39			521								
19.91			478								
20.09			701								
21.34			889								
21.83	21.75	21.89	133819	1016676	Decachlorobiphenyl	0.131624	0.711481		109.7	30 - 135	

Data File: /chem/tracegc82.i/e100528a_2C_DOD.b/019e1005131-04.d

Date : 29-MAY-2010 02:30

Client ID: BBG-FB051810

Instrument: tracegc82.i

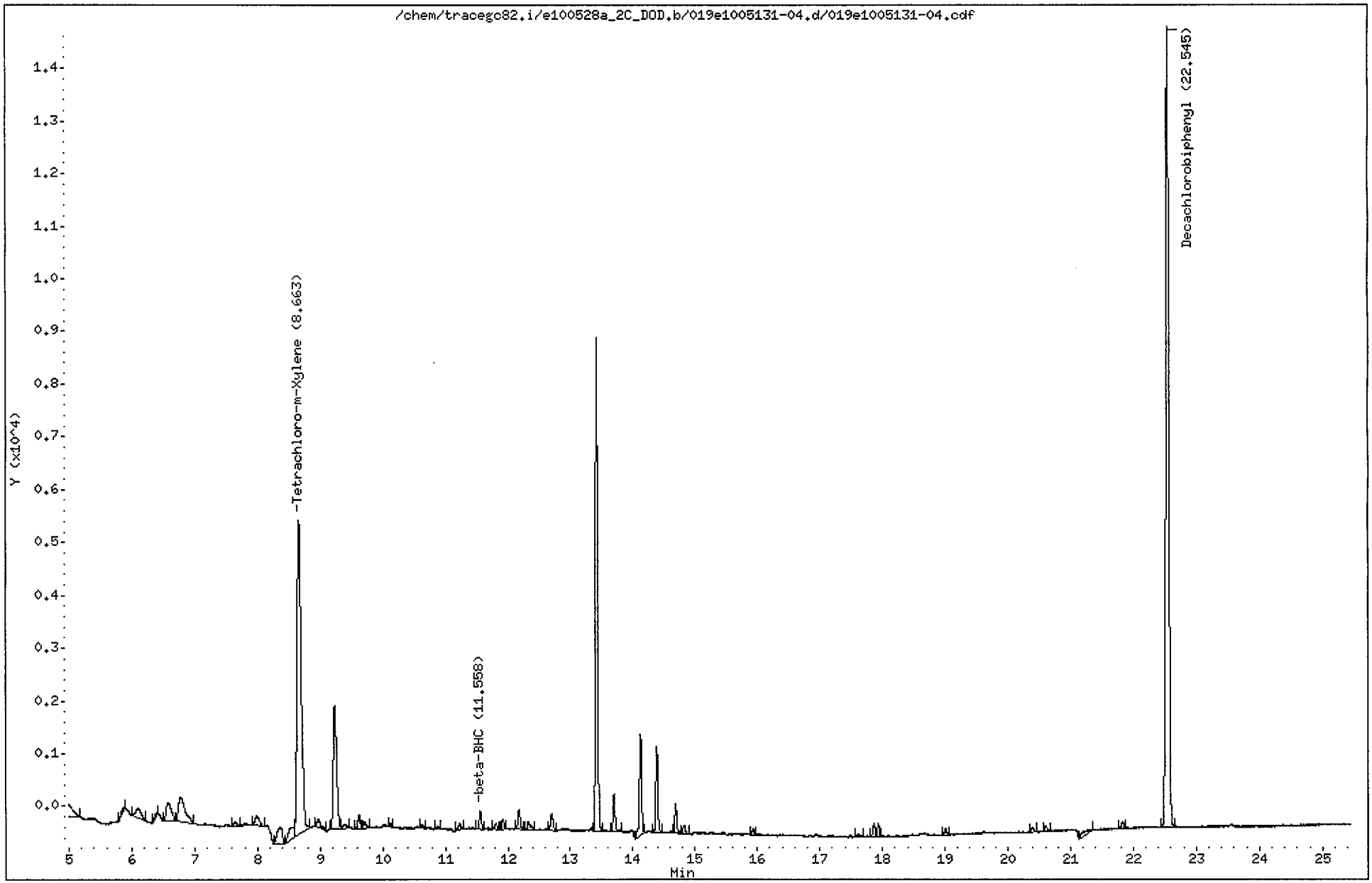
Sample Info: 1005131-04

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-04 Client Smp Id : BBG-FB051810
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 02:30 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a_2C_DOD.b/8081A_clpest2v6.m
Misc. Info : BBG-FB051810

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 925.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.35		212								
1.51		122447								
1.95		8046								
2.04		65334								
3.53		1023								
4.01		135								
4.95		3020								
5.87		299								
6.10		1100								
6.41		226								
6.58		1965								
6.79		3219								
7.64		339								
7.99		833								
8.37		1869								
8.54		1403								
8.66	8.59 8.73	27952	503158	Tetrachloro-m-Xylene	0.055551	0.300277		92.6	25 - 140	
8.97		761								
9.23		8666								
9.39		243								
9.62		664								
9.71		374								
10.13		155								
10.63		190								
10.88		151								
11.23		303								
11.56	11.50 11.64	847	317558	beta-BHC	0.002667	0.014417	0.054054			J
11.81		334								
11.92		458								
12.18		959								
12.33		511								
12.70		838								
13.43		21128								
13.70		1583								
14.13		4791								
14.39		3709								
14.69		1213								

CompuChem

Lab Smp Id : 1005131-04 Client Smp Id : BBG-FB051810
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 02:30 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/e100528a_2C_DOD.b/8081A_clpest2v6.m
Misc. Info : BBG-FB051810

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 925.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
14.82		484								
15.93		248								
17.62		182								
17.86		633								
17.93		577								
19.01		298								
20.39		220								
20.60		288								
21.31		637								
21.83		349								
22.54	22.47 22.61	48694	430874	Decachlorobiphenyl	0.113010	0.610864		94.2	30 - 135	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051210-SS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/19/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zg.b/384g1005131-01.d

Date : 19-MAY-2010 20:11

Client ID: EB051210-SS

Instrument: tracegc84.i

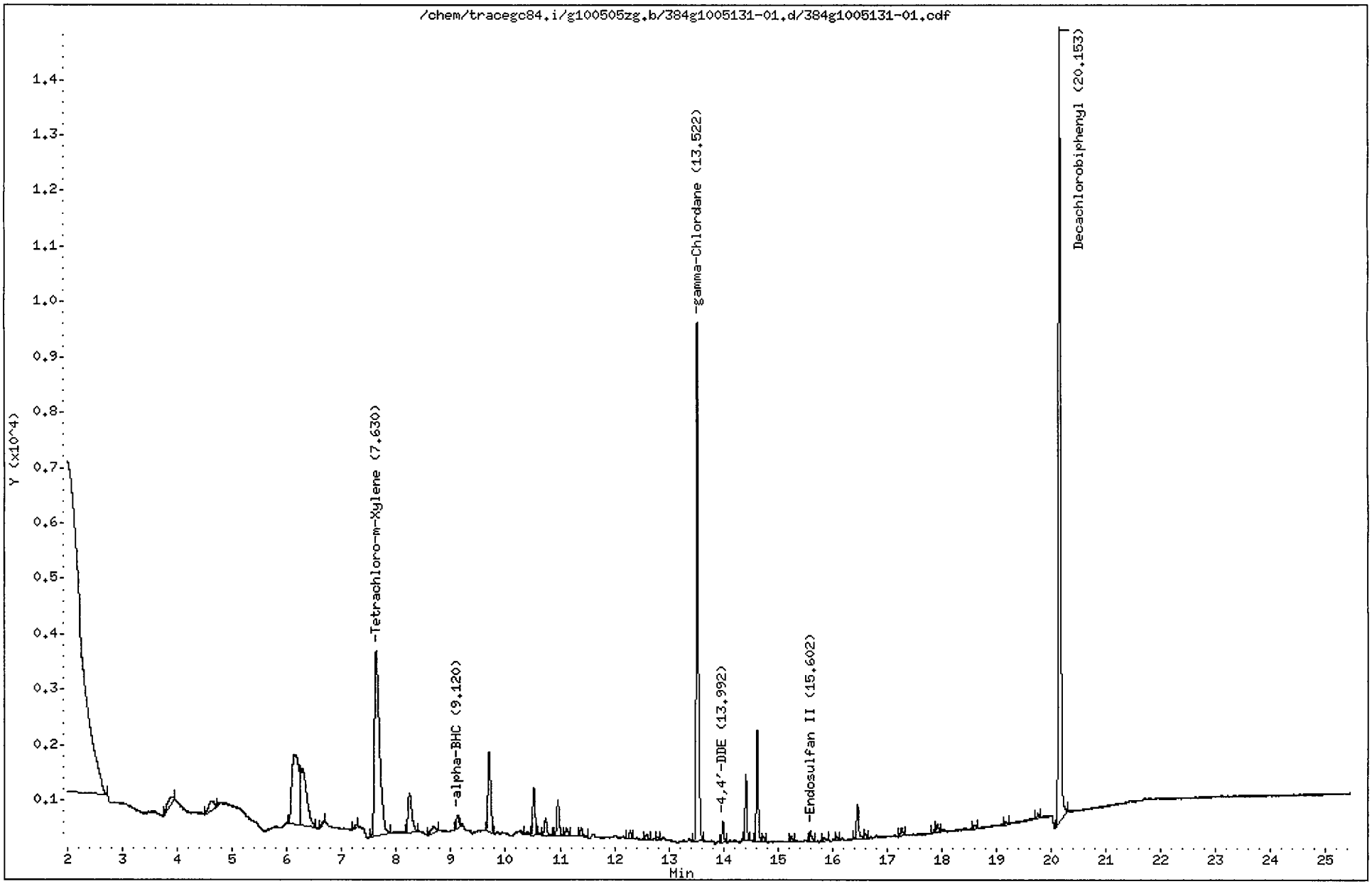
Sample Info: 1005131-01

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-01 Client Smp Id : EB051210-SS
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 19-MAY-2010 20:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg.b/8081A_clpestv6.m
Misc. Info : EB051210-SS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.44			210243								
2.00			158176								
3.88			1006								
4.63			1168								
6.13			11593								
6.28			7776								
6.67			187								
7.27			150								
7.63	7.59	7.73	21253	511075	Tetrachloro-m-Xylene	0.041583	0.207915		69.3	25 - 140	
8.24			3563								
8.69			620								
9.12	9.09	9.23	779	776175	alpha-BHC	0.001002	0.005012	0.050000			J
9.70			5262								
10.41			227								
10.52			2570								
10.74			1013								
10.96			1928								
11.12			457								
11.39			527								
12.28			412								
12.59			296								
12.79			126								
13.52	13.48	13.62	23711	579092	gamma-Chlordane	0.040945	0.204725	0.050000			
13.99	13.97	14.11	849	515756	4,4'-DDE	0.001646	0.008231	0.100000			J
14.41			2732								
14.62			4780								
14.73			223								
15.24			326								
15.60	15.59	15.73	526	440985	Endosulfan II	0.001193	0.005964	0.100000			J
15.84			206								
16.08			207								
16.46			1814								
16.60			267								
17.27			396								
17.88			157								
17.92			398								
18.60			219								

AHW 5/24/10

CompuChem

Lab Smp Id : 1005131-01 Client Smp Id : EB051210-SS
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 19-MAY-2010 20:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zg.b/8081A_clpestv6.m
Misc. Info : EB051210-SS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
19.16		150								
19.76		231								
20.15	20.11 20.25	37666	372435	Decachlorobiphenyl	0.101132	0.505659		84.3	30 - 135	

Data File: /chem/tracegc84.i/g100505zg_2C.b/384g1005131-01.d

Date : 19-MAY-2010 20:11

Client ID: EB051210-SS

Instrument: tracegc84.i

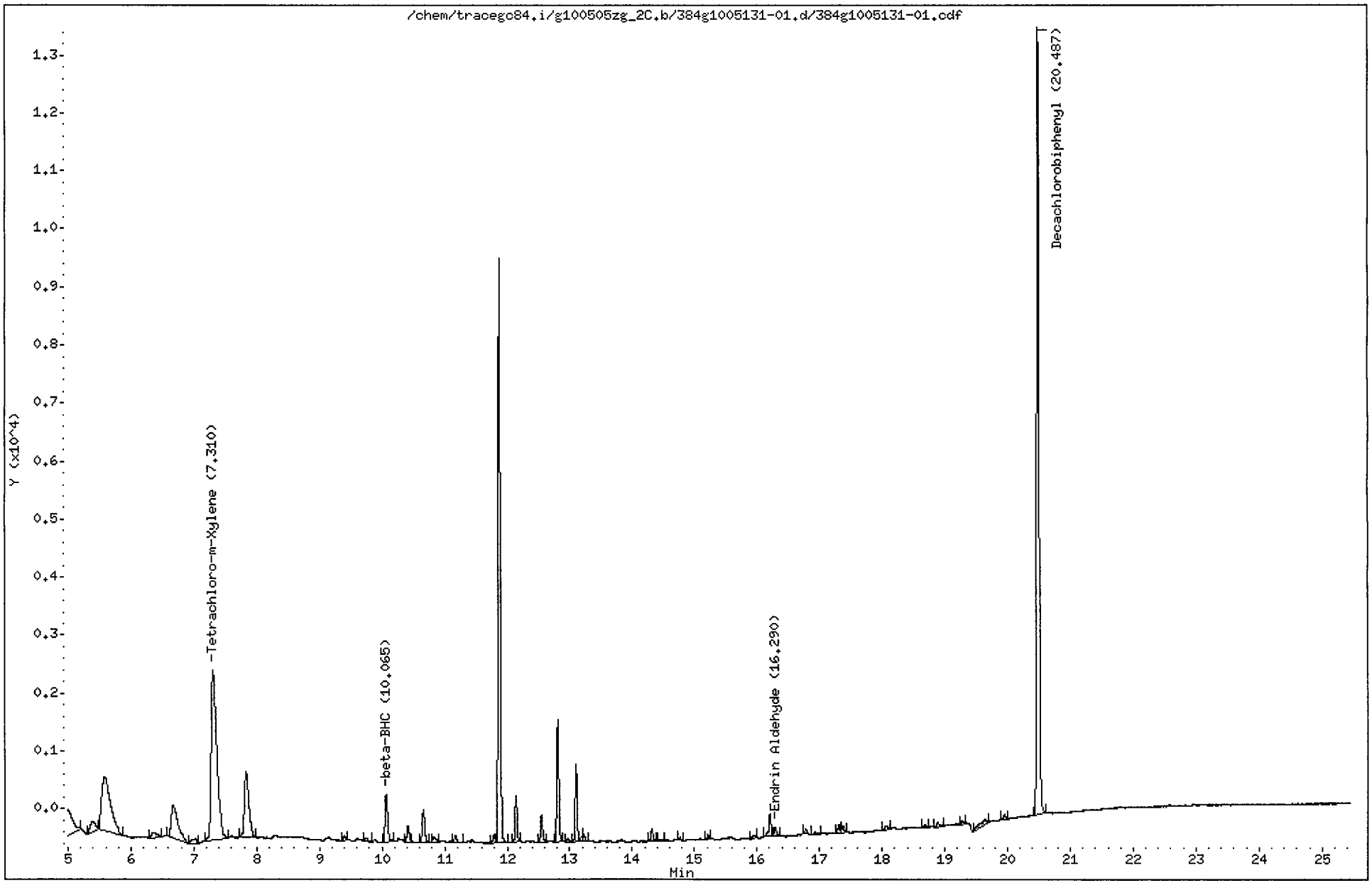
Sample Info: 1005131-01

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-01 Client Smp Id : EB051210-SS
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 19-MAY-2010 20:11 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg_2C.b/8081A_clpest2v6.m
Misc. Info : EB051210-SS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.37		121555								
1.69		27755								
1.74		127945								
3.24		333								
3.78		288								
4.97		4239								
5.39		981								
5.59		9354								
6.37		535								
6.67		4330								
7.02		428								
7.31	7.29 7.43	18347	407875	Tetrachloro-m-Xylene	0.044982	0.224910		75.0	25 - 140	
7.83		5563								
9.40		238								
9.74		169								
10.06	10.05 10.19	2294	246982	beta-BHC	0.009288	0.046441	0.050000			J
10.41		709								
10.66		1567								
10.82		301								
11.17		361								
11.79		330								
11.88		23808								
12.14		1755								
12.55		1045								
12.81		4715								
12.97		176								
13.10		2867								
13.18		158								
13.22		294								
14.31		444								
14.44		94								
14.77		108								
15.22		152								
15.94		170								
16.21		936								
16.29	16.18 16.32	415	284671	Endrin Aldehyde	0.001458	0.007289	0.100000			J
16.78		186								

AEH 5/24/10

CompuChem

Lab Smp Id : 1005131-01 Client Smp Id : EB051210-SS
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 19-MAY-2010 20:11 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zg_2C.b/8081A_clpest2v6.m
Misc. Info : EB051210-SS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
16.93		101								
17.31		335								
17.37		264								
18.07		218								
18.68		125								
18.89		203								
19.27		130								
19.64		768								
19.95		202								
20.49	20.48 20.62	34168	358404	Decachlorobiphenyl	0.095334	0.476669		79.4	30 - 135	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051210-SSRE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-01RE1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/13/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I PEST

Data File: /chem/tracegc84.i/g100505zk.b/413g1005131-01RE1.d

Date : 21-MAY-2010 13:09

Client ID: EB051210-SSRE

Instrument: tracegc84.i

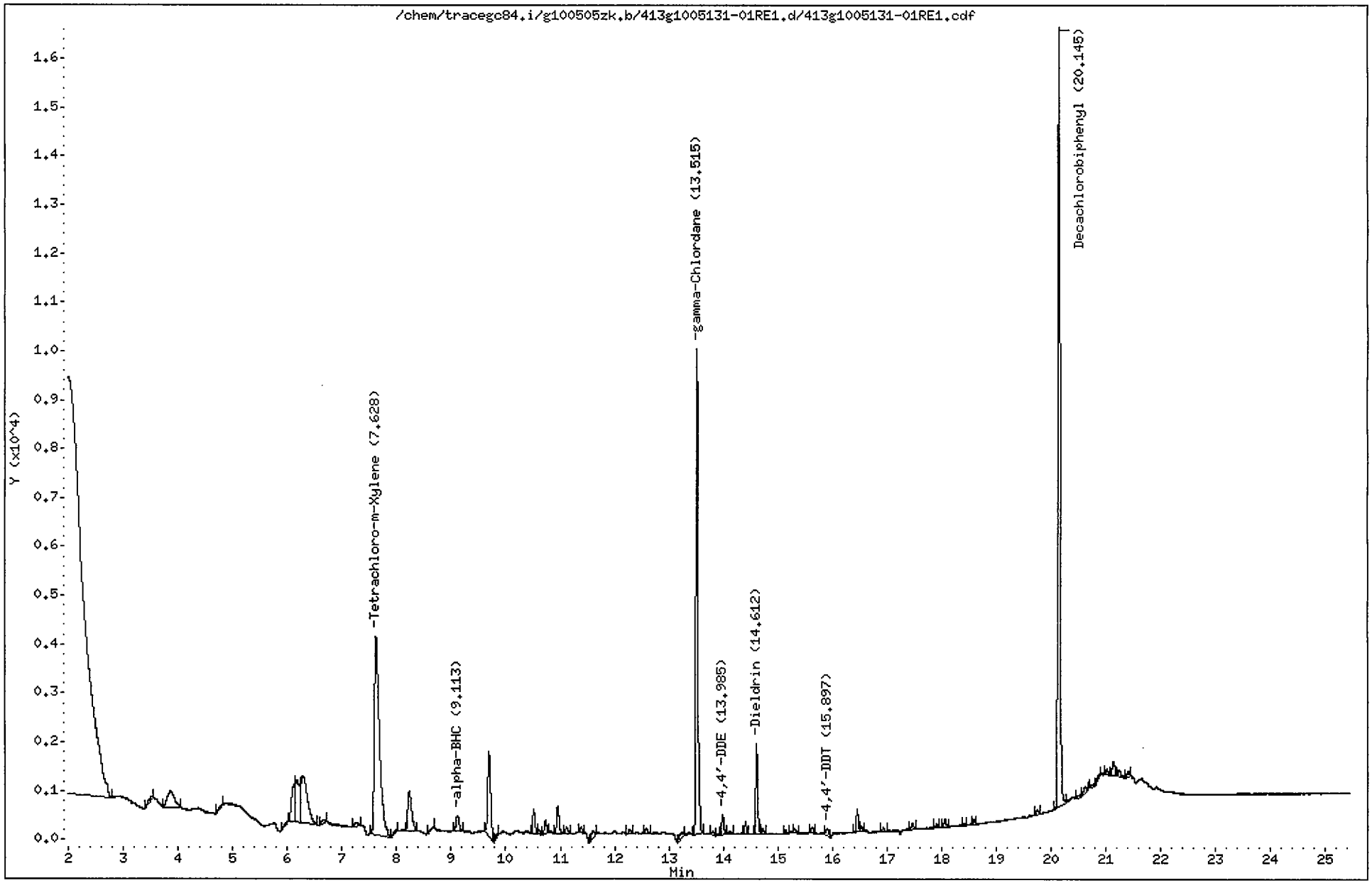
Sample Info: 1005131-01RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-01RE1 Client Smp Id : EB051210-SSRE
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 21-MAY-2010 13:09 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : EB051210-SSRE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.43			133888								
2.01			261611								
3.53			388								
3.86			3050								
4.82			227								
6.03			194								
6.13			2731								
6.17			4714								
6.29			8305								
6.68			289								
7.25			466								
7.63	7.56	7.70	26558	511075	Tetrachloro-m-Xylene	0.051963	0.259815		86.6	25 - 140	
8.01			242								
8.24			4078								
8.68			185								
9.11	9.06	9.20	1221	776175	alpha-BHC	0.001572	0.007859	0.050000			J
9.69			6566								
9.85			211								
10.52			1527								
10.61			272								
10.73			805								
10.96			1610								
11.12			380								
11.38			369								
11.61			557								
12.29			227								
12.58			326								
13.23			592								
13.52	13.45	13.59	25235	579092	gamma-Chlordane	0.043575	0.217875	0.050000			
13.81			151								
13.98	13.94	14.08	1076	515756	4,4'-DDE	0.002086	0.010431	0.100000			J
14.12			224								
14.40			512								
14.61	14.57	14.71	4498	512808	Dieldrin	0.008769	0.043847	0.100000			J
14.72			301								
15.14			233								
15.31			240								

KGH 5/24/10

CompuChem

Lab Smp Id : 1005131-01RE1 Client Smp Id : EB051210-SSRE
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 21-MAY-2010 13:09 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : EB051210-SSRE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
15.63		357								
15.90	15.83 15.97	488	433059	4,4'-DDT	0.001127	0.005634	0.100000			J
16.45		1197								
16.53		251								
16.93		204								
17.47		336								
17.91		185								
18.06		414								
18.41		149								
18.59		279								
19.75		249								
20.14	20.08 20.22	40788	372435	Decachlorobiphenyl	0.109517	0.547585		91.3	30 - 135	
20.48		180								
20.61		415								
20.78		160								
20.88		368								
21.02		279								
21.14		964								
21.24		501								
21.40		328								

Data File: /chem/tracegc84.i/g100505zk_2C.b/413g1005131-01RE1.d

Date : 21-MAY-2010 13:09

Client ID: EB051210-SSRE

Instrument: tracegc84.i

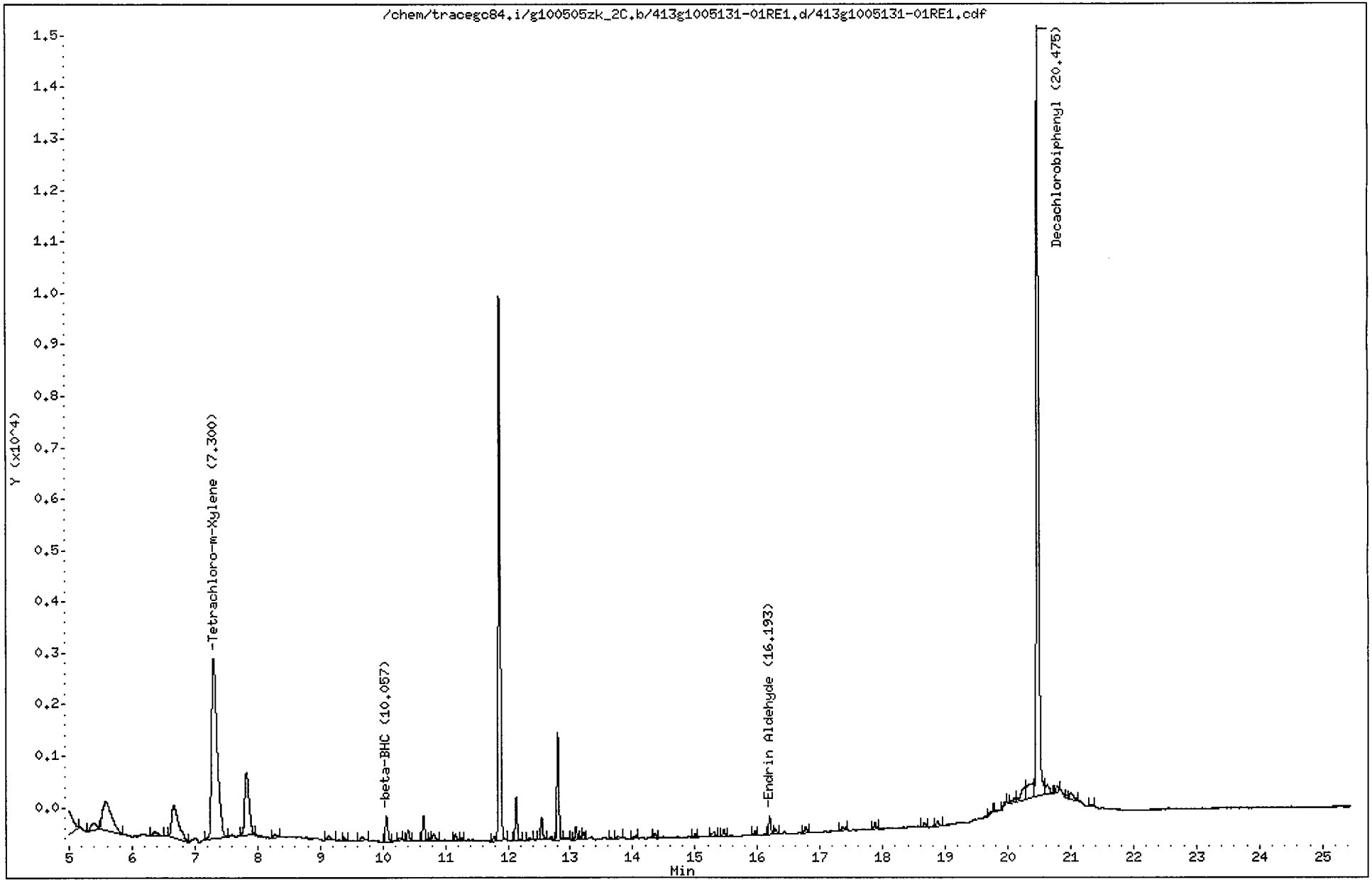
Sample Info: 1005131-01RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-01RE1 Client Smp Id : EB051210-SSRE
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 21-MAY-2010 13:09 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : EB051210-SSRE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.37		32535								
1.76		11879								
3.23		3421								
3.68		403								
4.00		1882								
4.96		4070								
5.38		859								
5.58		5843								
6.36		528								
6.66		4610								
7.30	7.24 7.38	21905	407875	Tetrachloro-m-Xylene	0.053705	0.268526		89.5	25 - 140	
7.83		5872								
8.28		205								
9.14		312								
9.38		201								
9.67		243								
10.06	10.00 10.14	1385	246982	beta-BHC	0.005608	0.028038	0.050000			J
10.26		118								
10.40		562								
10.65		1249								
10.75		134								
10.81		514								
11.16		332								
11.25		138								
11.78		217								
11.87		24948								
12.13		1896								
12.34		126								
12.54		1043								
12.69		199								
12.80		4670								
12.91		112								
13.09		575								
13.18		143								
13.21		296								
13.66		107								
13.76		187								

CompuChem

Lab Smp Id : 1005131-01RE1 Client Smp Id : EB051210-SSRE
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 21-MAY-2010 13:09 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : EB051210-SSRE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
14.02		184								
14.36		185								
15.00		172								
15.30		333								
15.46		291								
15.96		215								
16.19	16.12 16.26	851	284671	Endrin Aldehyde	0.002989	0.014947	0.100000			J
16.29		226								
16.77		283								
17.36		265								
17.87		307								
18.67		200								
18.87		246								
19.73		125								
19.83		105								
19.95		151								
20.09		358								
20.26		1233								
20.35		2079								
20.48	20.41 20.55	38648	358404	Decachlorobiphenyl	0.107831	0.539155		89.9	30 - 135	
20.63		687								
20.78		255								
20.93		113								
21.00		501								
21.33		98								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051310-SB

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-02RE1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zk.b/414g1005131-02RE1.d

Page 1

Date : 21-MAY-2010 13:38

Client ID: EB051310-SB

Instrument: tracegc84.i

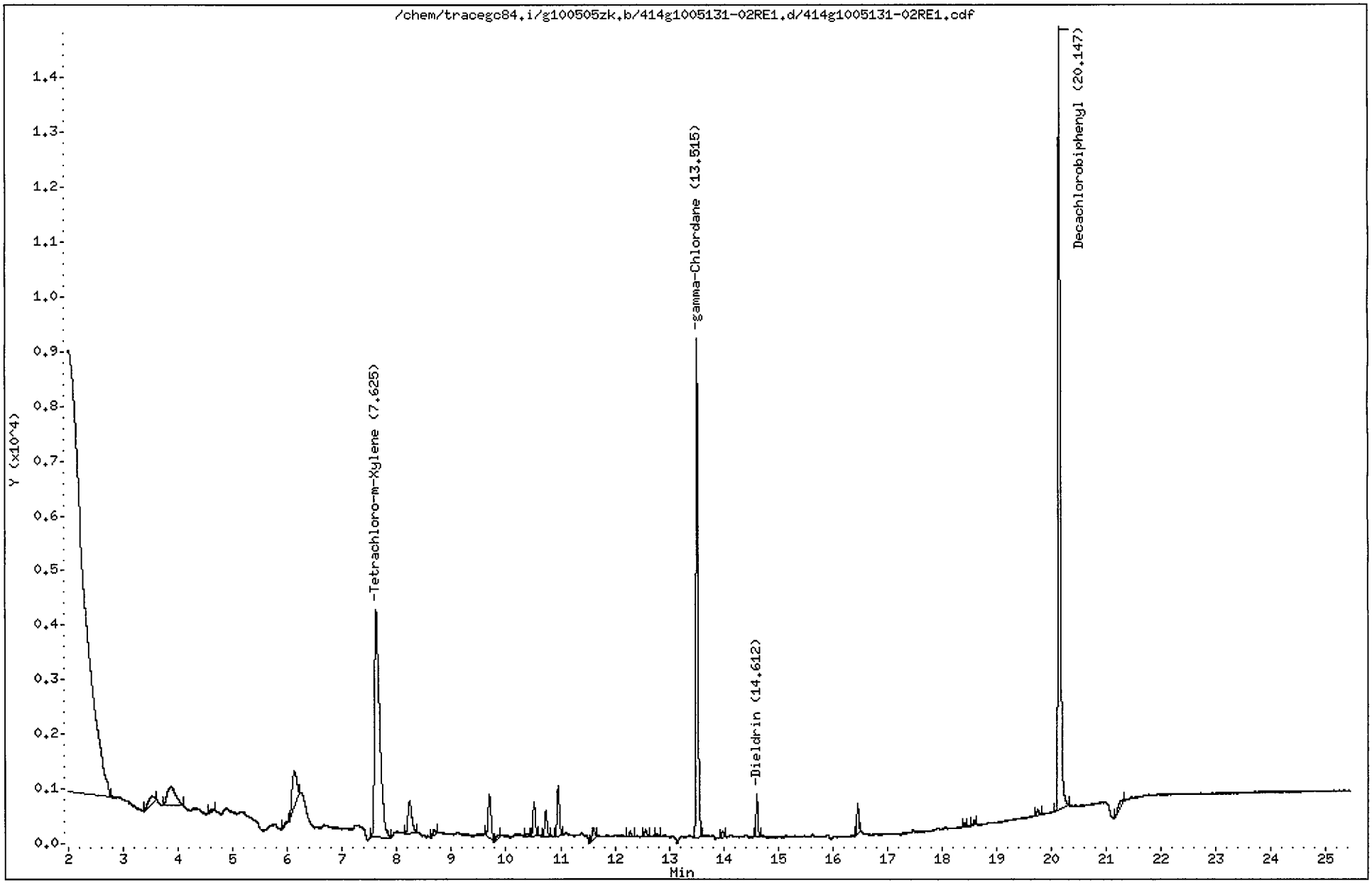
Sample Info: 1005131-02RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-02RE1 Client Smp Id : EB051310-SB
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 21-MAY-2010 13:38 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : EB051310-SB

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.43		124547								
2.01		251318								
3.53		1032								
3.86		3818								
4.61		209								
6.02		217								
6.13		4102								
7.62	7.56 7.70	27108	511075	Tetrachloro-m-Xylene	0.053039	0.265196		88.4	25 - 140	
8.24		2965								
8.69		431								
9.69		3047								
9.85		200								
10.40		214								
10.51		1838								
10.73		1402								
10.96		2688								
11.61		679								
12.28		292								
12.56		362								
12.78		121								
13.52	13.45 13.59	22582	579092	gamma-Chlordane	0.038994	0.194969	0.050000			
13.99		283								
14.61	14.57 14.71	1839	512808	Dieldrin	0.003586	0.017931	0.100000			J
16.46		1360								
18.41		166								
18.59		245								
19.76		327								
20.15	20.08 20.22	39621	372435	Decachlorobiphenyl	0.106381	0.531905		88.7	30 - 135	
21.30		640								

5/24/10

Data File: /chem/tracegc84.i/g100505zk_2C.b/414g1005131-02RE1.d

Date : 21-MAY-2010 13:38

Client ID: EB051310-SB

Instrument: tracegc84.i

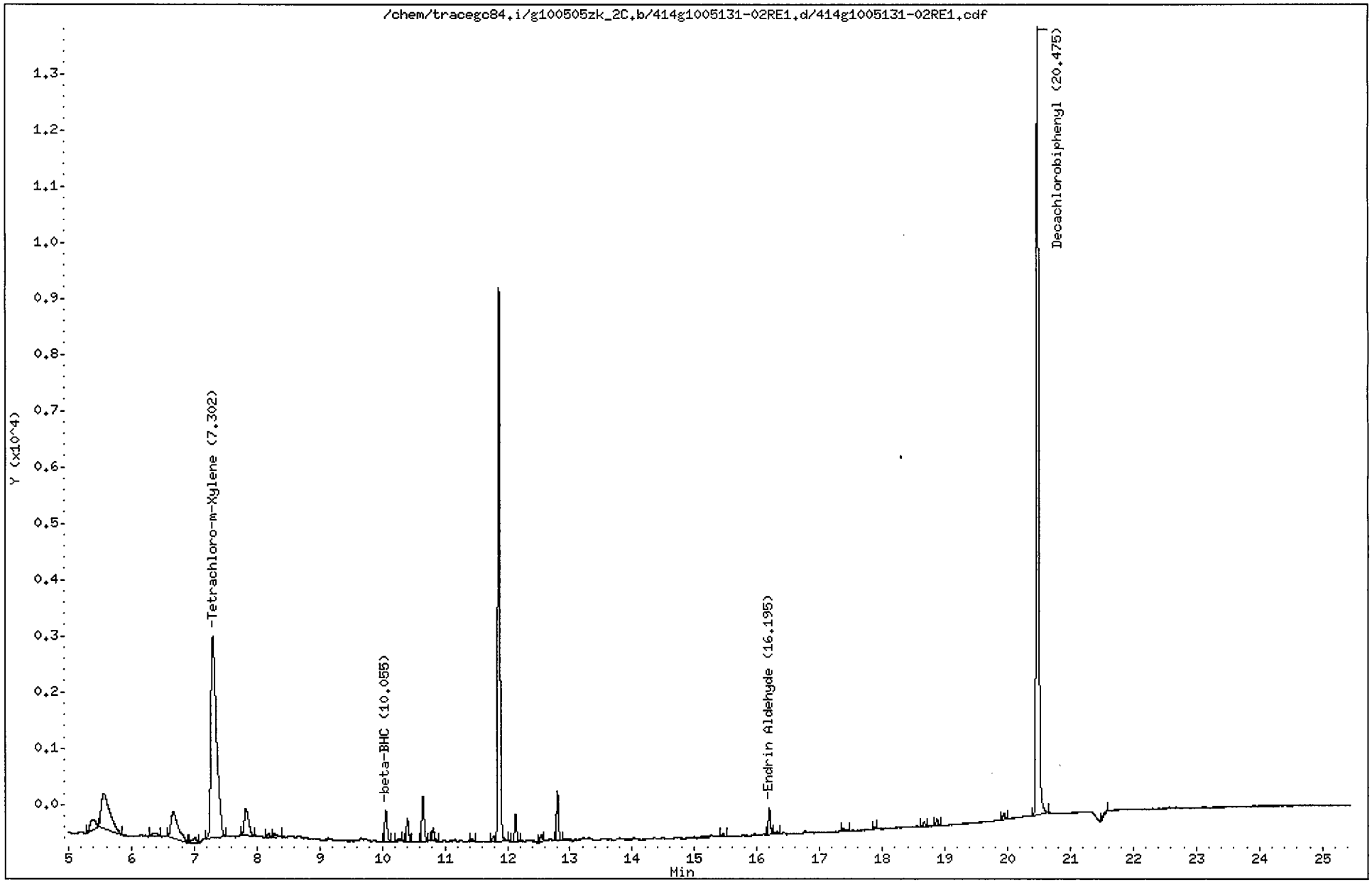
Sample Info: 1005131-02RE1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-02RE1 Client Smp Id : EB051310-SB
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 21-MAY-2010 13:38 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : EB051310-SB

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.39		27617								
1.75		234515								
3.23		3752								
3.98		181								
5.39		1201								
5.57		6153								
6.37		353								
6.67		3692								
7.02		362								
7.30	7.24 7.38	22185	407875	Tetrachloro-m-Xylene	0.054392	0.271958		90.7	25 - 140	
7.83		2251								
8.18		204								
8.28		252								
10.06	10.00 10.14	1595	246982	beta-BHC	0.006454	0.032269	0.050000			J
10.25		115								
10.40		1080								
10.65		2208								
10.81		614								
11.43		108								
11.78		258								
11.87		23324								
12.13		1075								
12.54		295								
12.80		1950								
15.46		116								
16.20	16.12 16.26	1086	284671	Endrin Aldehyde	0.003815	0.019075	0.100000			J
16.31		153								
17.37		145								
17.88		91								
18.67		205								
18.87		269								
19.94		293								
20.48	20.41 20.55	36549	358404	Decachlorobiphenyl	0.101977	0.509886		85.0	30 - 135	
21.59		209								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EB051810-SS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 1005131-05

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 05/19/10

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 8.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.0074	JP
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/e100528a_DOD.b/020e1005131-05.d

Date : 29-MAY-2010 03:00

Client ID: EB051810-SS

Instrument: tracegc82.i

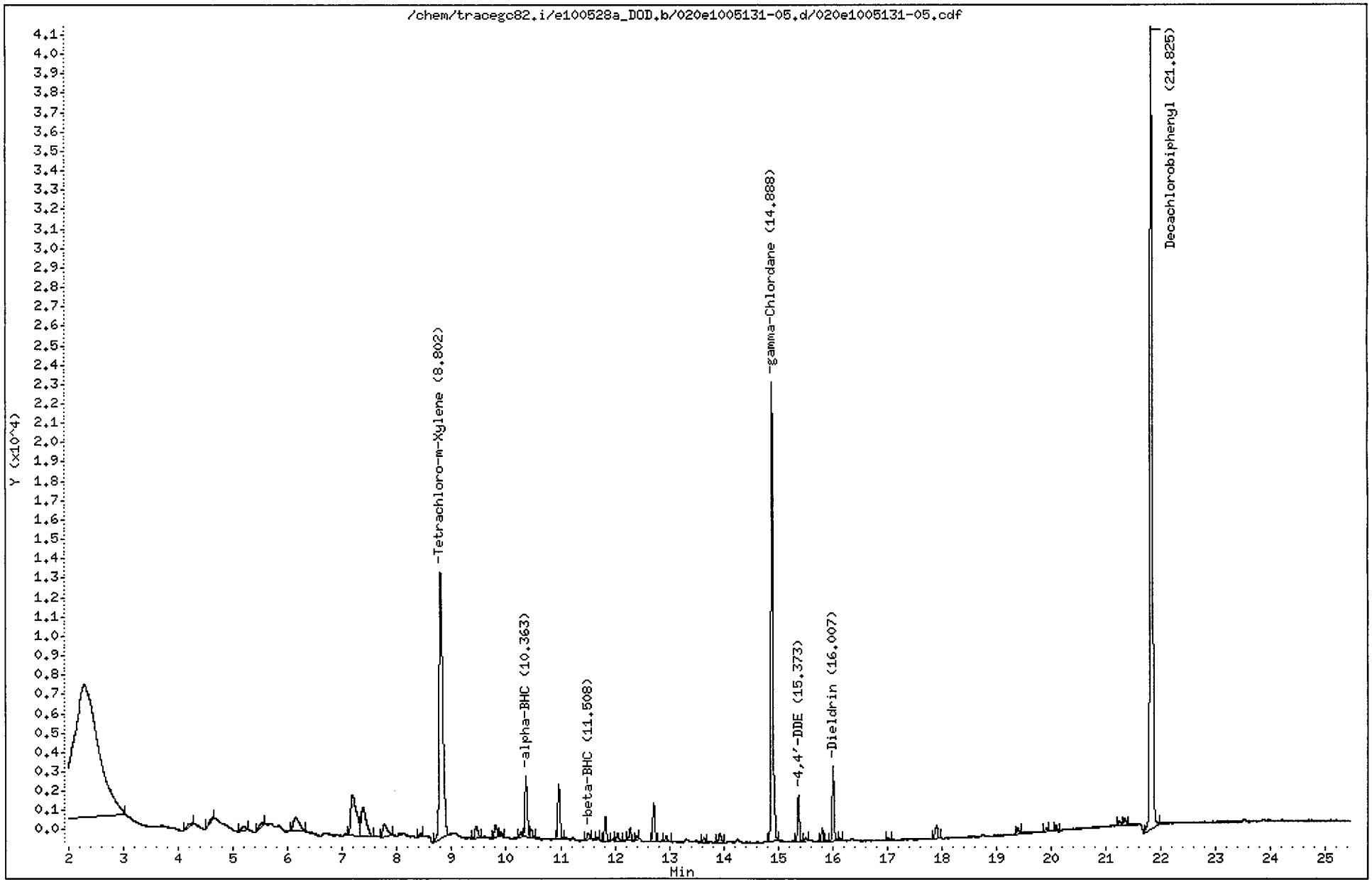
Sample Info: 1005131-05

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-05 Client Smp Id : EB051810-SS
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 03:00 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a_DOD.b/8081A_clpestv6.m
Misc. Info : EB051810-SS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.50			178033								
2.29			215135								
4.22			1009								
4.63			848								
5.19			1184								
5.53			1077								
6.14			5324								
7.19			14884								
7.37			9736								
7.76			3482								
8.42			320								
8.80	8.73	8.87	62541	1040565	Tetrachloro-m-Xylene	0.060103	0.300515		100.2	25 - 140	
9.45			2479								
9.80			2053								
9.90			625								
10.27			679								
10.36	10.32	10.46	9139	1883720	alpha-BHC	0.004851	0.024255	0.050000			J
10.46			1218								
10.97			8241								
11.51	11.41	11.55	999	671198	beta-BHC	0.001487	0.007434	0.050000			J
11.66			300								
11.82			3293								
12.05			1156								
12.28			1878								
12.40			501								
12.71			5555								
12.94			850								
13.63			539								
13.93			1605								
14.89	14.84	14.98	58810	1446418	gamma-Chlordane	0.040658	0.203292	0.050000			
15.37	15.33	15.47	5637	1321226	4,4'-DDE	0.004266	0.021332	0.100000			J
15.50			401								
15.81			1506								
16.01	15.99	16.13	9155	1325039	Dieldrin	0.006909	0.034546	0.100000			J
16.13			290								
17.02			393								
17.90			2126								

CompuChem

Lab Smp Id : 1005131-05 Client Smp Id : EB051810-SS
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 03:00 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/e100528a_DOD.b/8081A_clpestv6.m
Misc. Info : EB051810-SS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
19.39		796								
19.91		487								
20.09		756								
21.24		641								
21.34		919								
21.82	21.75 21.89	128850	1016676	Decachlorobiphenyl	0.126736	0.633678		105.6	30 - 135	

Data File: /chem/tracegc82.i/e100528a_2C_DOD.b/020e1005131-05.d

Date : 29-MAY-2010 03:00

Client ID: EB051810-SS

Instrument: tracegc82.i

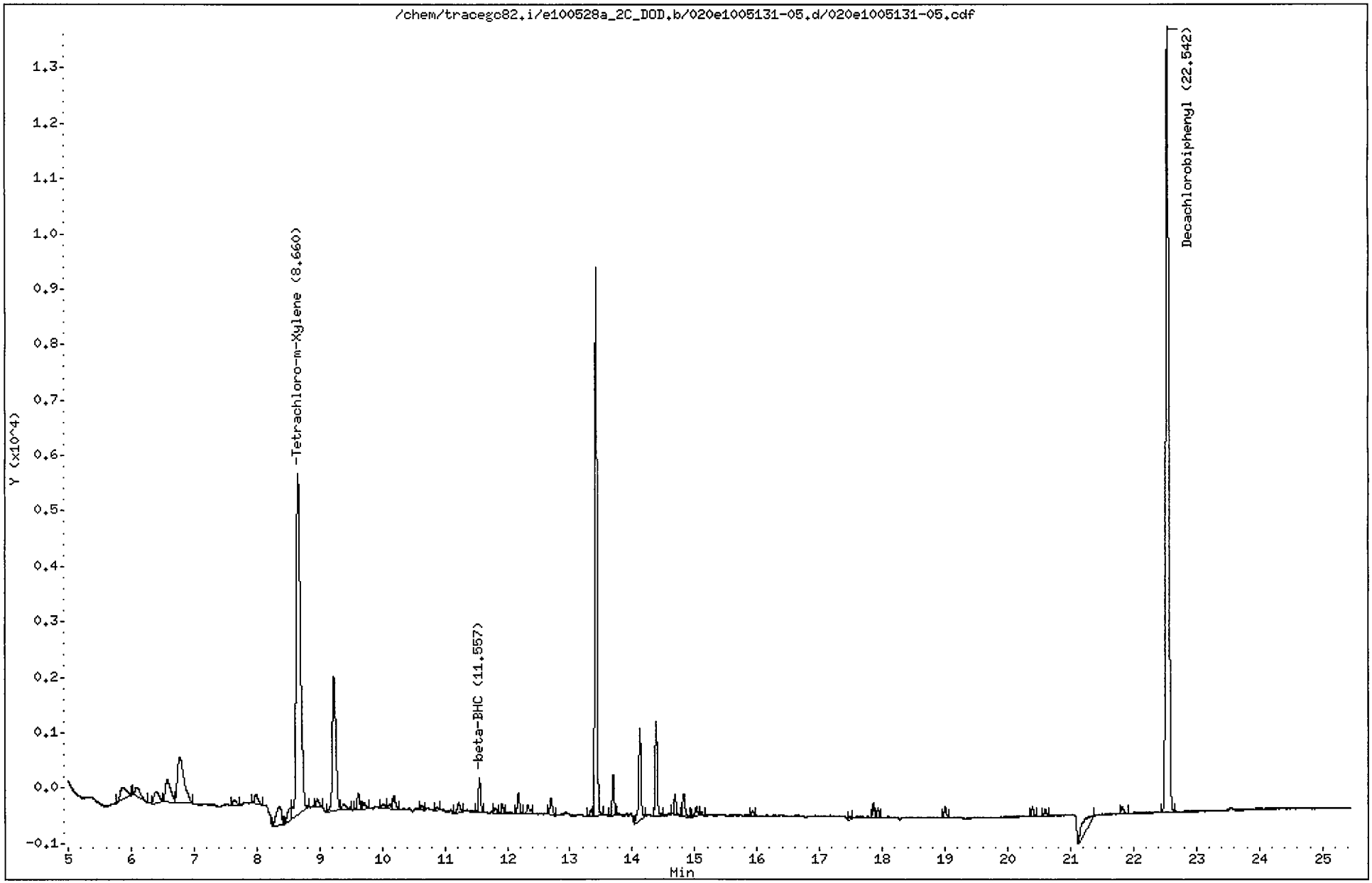
Sample Info: 1005131-05

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005131-05 Client Smp Id : EB051810-SS
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 03:00 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a_2C_DOD.b/8081A_clpest2v6.m
Misc. Info : EB051810-SS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.35			249								
1.51			88074								
1.85			3351								
1.96			169								
2.03			265								
4.04			425								
4.95			509								
5.87			1594								
6.10			953								
6.39			1182								
6.58			2392								
6.78			6018								
7.65			407								
7.99			810								
8.37			1970								
8.53			1050								
8.66	8.59	8.73	29238	503158	Tetrachloro-m-Xylene	0.058107	0.290535		96.8	25 - 140	
8.97			500								
9.23			9257								
9.38			537								
9.62			807								
9.71			408								
10.02			280								
10.11			278								
10.19			677								
10.63			209								
10.87			123								
11.23			611								
11.56	11.50	11.64	1521	317558	beta-BHC	0.004787	0.023933	0.050000			J
11.81			341								
11.91			418								
12.18			899								
12.33			509								
12.70			858								
13.33			262								
13.42			22510								
13.70			1597								

CompuChem

Lab Smp Id : 1005131-05 Client Smp Id : EB051810-SS
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 29-MAY-2010 03:00 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/e100528a_2C_DOD.b/8081A_clpest2v6.m
Misc. Info : EB051810-SS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
14.12		4212								
14.38		3909								
14.69		840								
14.82		1140								
15.03		487								
15.11		169								
15.93		216								
17.48		132								
17.86		591								
17.93		414								
19.00		469								
20.39		376								
20.60		273								
21.37		2361								
21.82		346								
22.54	22.47 22.61	45870	430874	Decachlorobiphenyl	0.106458	0.532290		88.7	30 - 135	

3. Standards Data

a. Initial Calibration Data (Form VI)

b. Continuing Verification Summary (Form VII)

c. Analytical Sequence (Form VIII)

d. Identification Summary for Single Component Analytes (Form X)

e. Identification Summary for Multicomponent Analytes (Form X) – if applicable

f. Chromatograms and Data System Printouts

a. Initial Calibration Data
(Form VI)

For all GC columns, all instruments, in chronological order by GC column and instrument.

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date(s): 05/05/10 05/11/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1703 1237

LAB FILE ID: RF0.0025: 271GAR12RF0.005: 272GAR125RF0.01: 273GAR1254
RF0.02: 274GAR1254RF0.04: 275GAR1254

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	657800.00	649400.00	633450.00	600550.00	595712.50
beta-BHC	304400.00	299100.00	295050.00	280075.00	277500.00
alpha-BHC	770600.00	805200.00	776900.00	755900.00	772275.00
delta-BHC	671400.00	677800.00	677650.00	657625.00	669050.00
gamma-BHC (Lindane)	735000.00	734800.00	732650.00	707625.00	716687.50
4,4'-DDD	393800.00	390550.00	382800.00	367787.50	370606.25
4,4'-DDE	543900.00	529700.00	520350.00	492250.00	492581.25
4,4'-DDT	460400.00	443550.00	431825.00	413437.50	416081.25
Dieldrin	534500.00	531600.00	516300.00	490225.00	491412.50
Endosulfan I	563800.00	550700.00	551700.00	514700.00	503725.00
Endosulfan II	462600.00	458550.00	444100.00	421662.50	418012.50
Endosulfan sulfate	390400.00	385300.00	373250.00	354062.50	351756.25
Endrin	474200.00	461500.00	448000.00	422225.00	419937.50
Endrin Aldehyde	333400.00	341600.00	331250.00	313437.50	308431.25
Heptachlor	724800.00	713000.00	691950.00	654300.00	647525.00
Heptachlor Epoxide	636800.00	609300.00	588800.00	550750.00	541400.00
Methoxychlor	204460.00	199130.00	188755.00	176785.00	173376.25
Toxaphene			14032.500		
(2)			13591.500		
(3)			10842.500		
(4)			21565.500		
(5)			16044.500		
Endrin Ketone	455700.00	453600.00	443225.00	421525.00	421025.00
gamma-Chlordane	618800.00	607200.00	582200.00	547600.00	539662.50
alpha-Chlordane	534400.00	523200.00	506650.00	477250.00	469087.50
Decachlorobiphenyl	416500.00	396300.00	369750.00	346150.00	333475.00
Tetrachloro-m-Xylene	526400.00	523100.00	515550.00	496875.00	493450.00

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date(s): 05/05/10 05/11/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1703 1237

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	627382.500	4.5
beta-BHC	AVRG	291225.000	4.1
alpha-BHC	AVRG	776175.000	2.3
delta-BHC	AVRG	670705.000	1.2
gamma-BHC (Lindane)	AVRG	725352.500	1.7
4,4'-DDD	AVRG	381108.750	3.0
4,4'-DDE	AVRG	515756.250	4.4
4,4'-DDT	AVRG	433058.750	4.5
Dieldrin	AVRG	512807.500	4.1
Endosulfan I	AVRG	536925.000	4.9
Endosulfan II	AVRG	440985.000	4.6
Endosulfan sulfate	AVRG	370953.750	4.8
Endrin	AVRG	445172.500	5.4
Endrin Aldehyde	AVRG	325623.750	4.3
Heptachlor	AVRG	686315.000	5.0
Heptachlor Epoxide	AVRG	585410.000	6.8
Methoxychlor	AVRG	188501.250	7.2
Toxaphene	AVRG	14032.5000	0.0
(2)	AVRG	13591.5000	0.0
(3)	AVRG	10842.5000	0.0
(4)	AVRG	21565.5000	0.0
(5)	AVRG	16044.5000	0.0
Endrin Ketone	AVRG	439015.000	3.8
gamma-Chlordane	AVRG	579092.500	6.0
alpha-Chlordane	AVRG	502117.500	5.6
Decachlorobiphenyl	AVRG	372435.000	9.2
Tetrachloro-m-Xylene	AVRG	511075.000	3.0

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date(s): 05/05/10 05/06/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1703 0045

LAB FILE ID: RF0.0025: 011G0E05RF0.005: 012G0E050RF0.01: 020G0E0501
RF0.02: 014G0E0501RF0.04: 015G0E0501

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	528800.00	538400.00	542350.00	532000.00	534037.50
beta-BHC	245200.00	250700.00	250450.00	244400.00	244162.50
alpha-BHC	542600.00	577900.00	603550.00	618425.00	646400.00
delta-BHC	478600.00	507300.00	538050.00	545250.00	566087.50
gamma-BHC (Lindane)	538400.00	566700.00	589600.00	593175.00	610187.50
4,4'-DDD	305300.00	318000.00	324875.00	319737.50	322237.50
4,4'-DDE	462600.00	464100.00	460175.00	441312.50	436893.75
4,4'-DDT	363900.00	365750.00	369925.00	362587.50	365381.25
Dieldrin	444800.00	455400.00	458925.00	444200.00	439731.25
Endosulfan I	463800.00	472200.00	474000.00	457750.00	452012.50
Endosulfan II	391400.00	395050.00	393425.00	377087.50	371975.00
Endosulfan sulfate	343700.00	347900.00	342350.00	328175.00	323962.50
Endrin	403500.00	409850.00	411675.00	396000.00	393468.75
Endrin Aldehyde	285800.00	287850.00	294050.00	280612.50	275043.75
Heptachlor	525636.36	582100.00	591400.00	571800.00	570175.00
Heptachlor Epoxide	499600.00	510600.00	512050.00	494500.00	490487.50
Methoxychlor	179940.00	177530.00	169570.00	158177.50	150931.25
Toxaphene			17795.500		
(2)			21805.000		
(3)			10433.500		
(4)			9595.500		
(5)			16966.500		
Endrin Ketone	382900.00	392200.00	389975.00	378125.00	373568.75
gamma-Chlordane	513200.00	508800.00	509350.00	489675.00	487450.00
alpha-Chlordane	440400.00	442100.00	440400.00	423900.00	420850.00
Decachlorobiphenyl	405000.00	383050.00	359150.00	330700.00	314118.75
Tetrachloro-m-Xylene	415800.00	412900.00	409850.00	400450.00	400375.00

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date(s): 05/05/10 05/06/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1703 0045

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	535117.500	1.0
beta-BHC	AVRG	246982.500	1.3
alpha-BHC	AVRG	597775.000	6.6
delta-BHC	AVRG	527057.500	6.5
gamma-BHC (Lindane)	AVRG	579612.500	4.8
4,4'-DDD	AVRG	318030.000	2.4
4,4'-DDE	AVRG	453016.250	2.8
4,4'-DDT	AVRG	365508.750	0.8
Dieldrin	AVRG	448611.250	1.8
Endosulfan I	AVRG	463952.500	2.0
Endosulfan II	AVRG	385787.500	2.7
Endosulfan sulfate	AVRG	337217.500	3.1
Endrin	AVRG	402898.750	2.0
Endrin Aldehyde	AVRG	284671.250	2.5
Heptachlor	AVRG	568222.273	4.4
Heptachlor Epoxide	AVRG	501447.500	1.9
Methoxychlor	AVRG	167229.750	7.4
Toxaphene	AVRG	17795.5000	0.0
(2)	AVRG	21805.0000	0.0
(3)	AVRG	10433.5000	0.0
(4)	AVRG	9595.50000	0.0
(5)	AVRG	16966.5000	0.0
Endrin Ketone	AVRG	383353.750	2.0
gamma-Chlordane	AVRG	501695.000	2.4
alpha-Chlordane	AVRG	433530.000	2.4
Decachlorobiphenyl	AVRG	358403.750	10.4
Tetrachloro-m-Xylene	AVRG	407875.000	1.7

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date(s): 05/28/10 05/28/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1914 2208

LAB FILE ID: RF0.0025: 004E0E27RF0.005: 005E0E270RF0.01: 010E0E2701
RF0.02: 007E0E2701RF0.04: 008E0E2701

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	1546600.0	1577100.0	1518300.0	1494300.0	1547612.5
beta-BHC	692800.00	687400.00	663800.00	647625.00	664362.50
alpha-BHC	1808200.0	1871100.0	1855600.0	1890750.0	1992950.0
delta-BHC	1610000.0	1689700.0	1682400.0	1706450.0	1810525.0
gamma-BHC (Lindane)	1725600.0	1786800.0	1748400.0	1773825.0	1862500.0
4,4'-DDD	1005700.0	1028200.0	989400.00	978325.00	1014818.8
4,4'-DDE	1355000.0	1353300.0	1296950.0	1275862.5	1325018.8
4,4'-DDT	1153900.0	1160500.0	1116475.0	1096637.5	1132712.5
Dieldrin	1351600.0	1355300.0	1303750.0	1289837.5	1324706.2
Endosulfan I	1394800.0	1398800.0	1332200.0	1292300.0	1354962.5
Endosulfan II	1180700.0	1180700.0	1136525.0	1107350.0	1127825.0
Endosulfan sulfate	1068600.0	1069800.0	1012225.0	973925.00	988962.50
Endrin	1044900.0	1065750.0	1028600.0	1001700.0	1050368.8
Endrin Aldehyde	956300.00	961750.00	937750.00	878687.50	890693.75
Heptachlor	1683800.0	1698500.0	1635500.0	1612250.0	1673287.5
Heptachlor Epoxide	1486000.0	1498500.0	1428650.0	1399775.0	1436800.0
Methoxychlor	507640.00	502290.00	476735.00	453875.00	443547.50
Toxaphene			52834.000		
(2)			38564.500		
(3)			31681.000		
(4)			38582.000		
(5)			63024.500		
Endrin Ketone	1314600.0	1308450.0	1242425.0	1197462.5	1217231.2
gamma-Chlordane	1502000.0	1500500.0	1413000.0	1389175.0	1427412.5
alpha-Chlordane	1319800.0	1310800.0	1243250.0	1207600.0	1235825.0
Decachlorobiphenyl	1159700.0	1109550.0	1002125.0	917925.00	894081.25
Tetrachloro-m-Xylene	1045000.0	1068400.0	1030550.0	1016850.0	1042025.0

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date(s): 05/28/10 05/28/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1914 2208

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	1536782.50	2.0
beta-BHC	AVRG	671197.500	2.8
alpha-BHC	AVRG	1883720.00	3.6
delta-BHC	AVRG	1699815.00	4.2
gamma-BHC (Lindane)	AVRG	1779425.00	2.9
4,4'-DDD	AVRG	1003288.75	2.0
4,4'-DDE	AVRG	1321226.25	2.6
4,4'-DDT	AVRG	1132045.00	2.3
Dieldrin	AVRG	1325038.75	2.2
Endosulfan I	AVRG	1354612.50	3.3
Endosulfan II	AVRG	1146620.00	2.9
Endosulfan sulfate	AVRG	1022702.50	4.4
Endrin	AVRG	1038263.75	2.3
Endrin Aldehyde	AVRG	925036.250	4.1
Heptachlor	AVRG	1660667.50	2.2
Heptachlor Epoxide	AVRG	1449945.00	2.8
Methoxychlor	AVRG	476817.500	6.0
Toxaphene	AVRG	52834.0000	0.0
(2)	AVRG	38564.5000	0.0
(3)	AVRG	31681.0000	0.0
(4)	AVRG	38582.0000	0.0
(5)	AVRG	63024.5000	0.0
Endrin Ketone	AVRG	1256033.75	4.2
gamma-Chlordane	AVRG	1446417.50	3.6
alpha-Chlordane	AVRG	1263455.00	3.9
Decachlorobiphenyl	AVRG	1016676.25	11.4
Tetrachloro-m-Xylene	AVRG	1040565.00	1.8

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date(s): 05/28/10 05/28/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1914 2208

LAB FILE ID: RF0.0025: 004E0E27RF0.005: 005E0E270RF0.01: 010E0E2701
RF0.02: 007E0E2701RF0.04: 008E0E2701

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	721400.00	708800.00	650600.00	613675.00	615862.50
beta-BHC	342200.00	331300.00	313100.00	301600.00	299587.50
alpha-BHC	852000.00	858600.00	811900.00	798425.00	829737.50
delta-BHC	786200.00	767000.00	730150.00	718475.00	753225.00
gamma-BHC (Lindane)	815600.00	816100.00	770700.00	756500.00	783137.50
4,4'-DDD	450500.00	440200.00	405450.00	384625.00	389600.00
4,4'-DDE	616900.00	595850.00	547000.00	521137.50	532856.25
4,4'-DDT	516700.00	496900.00	454950.00	430575.00	433450.00
Dieldrin	596300.00	579050.00	530000.00	501500.00	508937.50
Endosulfan I	655800.00	632300.00	575050.00	536025.00	524775.00
Endosulfan II	520900.00	504900.00	467050.00	436700.00	436262.50
Endosulfan sulfate	471900.00	461200.00	418575.00	387625.00	383200.00
Endrin	493800.00	478150.00	441700.00	410987.50	414981.25
Endrin Aldehyde	438700.00	420800.00	390675.00	351987.50	345581.25
Heptachlor	745454.55	764100.00	701250.00	663850.00	662625.00
Heptachlor Epoxide	689200.00	672700.00	620000.00	578050.00	571275.00
Methoxychlor	216960.00	206770.00	186195.00	171260.00	170638.75
Toxaphene			22464.500		
(2)			27203.000		
(3)			11880.000		
(4)			10382.000		
(5)			21992.500		
Endrin Ketone	545900.00	532200.00	486350.00	454237.50	449237.50
gamma-Chlordane	691400.00	674900.00	616500.00	578475.00	574362.50
alpha-Chlordane	606000.00	588000.00	534600.00	499100.00	491012.50
Decachlorobiphenyl	505200.00	481500.00	428125.00	379237.50	360306.25
Tetrachloro-m-Xylene	530600.00	528600.00	500300.00	480150.00	476137.50

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date(s): 05/28/10 05/28/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1914 2208

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	662067.500	7.7
beta-BHC	AVRG	317557.500	5.9
alpha-BHC	AVRG	830132.500	3.1
delta-BHC	AVRG	751010.000	3.6
gamma-BHC (Lindane)	AVRG	788407.500	3.4
4,4'-DDD	AVRG	414075.000	7.2
4,4'-DDE	AVRG	562748.750	7.4
4,4'-DDT	AVRG	466515.000	8.3
Dieldrin	AVRG	543157.500	7.8
Endosulfan I	AVRG	584790.000	9.9
Endosulfan II	AVRG	473162.500	8.2
Endosulfan sulfate	AVRG	424500.000	9.6
Endrin	AVRG	447923.750	8.3
Endrin Aldehyde	AVRG	389548.750	10.5
Heptachlor	AVRG	707455.909	6.6
Heptachlor Epoxide	AVRG	626245.000	8.6
Methoxychlor	AVRG	190364.750	11.0
Toxaphene	AVRG	22464.5000	0.0
(2)	AVRG	27203.0000	0.0
(3)	AVRG	11880.0000	0.0
(4)	AVRG	10382.0000	0.0
(5)	AVRG	21992.5000	0.0
Endrin Ketone	AVRG	493585.000	8.9
gamma-Chlordane	AVRG	627127.500	8.6
alpha-Chlordane	AVRG	543742.500	9.5
Decachlorobiphenyl	AVRG	430873.750	14.6
Tetrachloro-m-Xylene	AVRG	503157.500	5.1

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date(s): 05/05/10 05/11/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1703 1237

LAB FILE ID: RT1: 271GAR12541HTRT2: 272GAR12542HTRT3: 273GAR12543HT
RT4: 274GAR12544HTRT5: 275GAR12545HT

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	11.920	11.920	11.920	11.910	11.920
beta-BHC	10.270	10.280	10.270	10.270	10.270
alpha-BHC	9.210	9.220	9.220	9.210	9.220
delta-BHC	10.700	10.700	10.700	10.700	10.700
gamma-BHC (Lindane)	10.030	10.030	10.030	10.030	10.030
4,4'-DDD	15.400	15.400	15.400	15.400	15.400
4,4'-DDE	14.100	14.100	14.100	14.100	14.100
4,4'-DDT	15.990	15.990	15.990	15.990	15.990
Dieldrin	14.740	14.740	14.740	14.740	14.740
Endosulfan I	14.210	14.210	14.210	14.210	14.210
Endosulfan II	15.730	15.730	15.730	15.730	15.730
Endosulfan sulfate	17.570	17.570	17.570	17.570	17.570
Endrin	15.240	15.240	15.240	15.240	15.240
Endrin Aldehyde	16.640	16.640	16.640	16.640	16.640
Heptachlor	11.210	11.210	11.210	11.210	11.210
Heptachlor Epoxide	13.330	13.330	13.330	13.330	13.330
Methoxychlor	17.020	17.020	17.020	17.020	17.020
Toxaphene			15.980		
(2)			16.590		
(3)			16.840		
(4)			17.350		
(5)			17.450		
Endrin Ketone	18.160	18.170	18.160	18.160	18.160
gamma-Chlordane	13.610	13.610	13.610	13.610	13.610
alpha-Chlordane	13.900	13.910	13.910	13.910	13.910
Decachlorobiphenyl	20.240	20.240	20.240	20.240	20.240
Tetrachloro-m-Xylene	7.710	7.710	7.700	7.710	7.700

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date(s): 05/05/10 05/11/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1703 1237

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	11.918	11.847	11.987
beta-BHC	10.272	10.202	10.342
alpha-BHC	9.216	9.148	9.288
delta-BHC	10.700	10.630	10.770
gamma-BHC (Lindane)	10.030	9.963	10.103
4,4'-DDD	15.400	15.328	15.468
4,4'-DDE	14.100	14.028	14.168
4,4'-DDT	15.990	15.923	16.063
Dieldrin	14.740	14.670	14.810
Endosulfan I	14.210	14.142	14.282
Endosulfan II	15.730	15.660	15.800
Endosulfan sulfate	17.570	17.505	17.645
Endrin	15.240	15.175	15.315
Endrin Aldehyde	16.640	16.572	16.712
Heptachlor	11.210	11.137	11.277
Heptachlor Epoxide	13.330	13.263	13.403
Methoxychlor	17.020	16.948	17.088
Toxaphene	15.978	15.908	16.048
(2)	16.586	16.515	16.655
(3)	16.844	16.775	16.915
(4)	17.348	17.277	17.417
(5)	17.452	17.383	17.523
Endrin Ketone	18.162	18.095	18.235
gamma-Chlordane	13.610	13.540	13.680
alpha-Chlordane	13.908	13.838	13.978
Decachlorobiphenyl	20.240	20.170	20.310
Tetrachloro-m-Xylene	7.706	7.633	7.773

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date(s): 05/05/10 05/06/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1703 0045

LAB FILE ID: RT1: 011G0E05010-CRT2: 012G0E05010-CRT3: 020G0E05010-A
RT4: 014G0E05010-CRT5: 015G0E05010-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	11.780	11.780	11.780	11.780	11.780
beta-BHC	10.230	10.230	10.230	10.230	10.230
alpha-BHC	9.080	9.080	9.090	9.080	9.080
delta-BHC	10.920	10.930	10.930	10.920	10.920
gamma-BHC (Lindane)	9.980	9.990	9.980	9.980	9.980
4,4'-DDD	15.480	15.480	15.480	15.480	15.480
4,4'-DDE	14.240	14.240	14.240	14.240	14.240
4,4'-DDT	16.140	16.140	16.140	16.140	16.140
Dieldrin	14.540	14.540	14.540	14.540	14.540
Endosulfan I	13.950	13.950	13.950	13.950	13.950
Endosulfan II	15.650	15.650	15.650	15.650	15.650
Endosulfan sulfate	16.960	16.960	16.960	16.960	16.960
Endrin	15.190	15.200	15.200	15.190	15.200
Endrin Aldehyde	16.370	16.380	16.380	16.370	16.380
Heptachlor	11.030	11.030	11.030	11.030	11.030
Heptachlor Epoxide	13.090	13.090	13.090	13.090	13.090
Methoxychlor	17.590	17.590	17.590	17.590	17.590
Toxaphene			15.830		
(2)			16.390		
(3)			16.570		
(4)			16.940		
(5)			17.460		
Endrin Ketone	18.080	18.080	18.080	18.080	18.080
gamma-Chlordane	13.520	13.520	13.520	13.520	13.520
alpha-Chlordane	13.840	13.840	13.840	13.840	13.840
Decachlorobiphenyl	20.670	20.670	20.670	20.670	20.670
Tetrachloro-m-Xylene	7.440	7.450	7.450	7.450	7.450

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date(s): 05/05/10 05/06/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1703 0045

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	11.780	11.707	11.847
beta-BHC	10.230	10.160	10.300
alpha-BHC	9.082	9.013	9.153
delta-BHC	10.924	10.853	10.993
gamma-BHC (Lindane)	9.982	9.915	10.055
4,4'-DDD	15.480	15.408	15.548
4,4'-DDE	14.240	14.173	14.313
4,4'-DDT	16.140	16.067	16.207
Dieldrin	14.540	14.475	14.615
Endosulfan I	13.950	13.877	14.017
Endosulfan II	15.650	15.585	15.725
Endosulfan sulfate	16.960	16.892	17.032
Endrin	15.196	15.125	15.265
Endrin Aldehyde	16.376	16.307	16.447
Heptachlor	11.030	10.963	11.103
Heptachlor Epoxide	13.090	13.023	13.163
Methoxychlor	17.590	17.525	17.665
Toxaphene	15.832	15.763	15.903
(2)	16.390	16.320	16.460
(3)	16.568	16.498	16.638
(4)	16.938	16.868	17.008
(5)	17.464	17.395	17.535
Endrin Ketone	18.080	18.013	18.153
gamma-Chlordane	13.520	13.445	13.585
alpha-Chlordane	13.840	13.768	13.908
Decachlorobiphenyl	20.670	20.598	20.738
Tetrachloro-m-Xylene	7.448	7.378	7.518

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date(s): 05/28/10 05/28/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1914 2208

LAB FILE ID: RT1: 004E0E27016-CRT2: 005E0E27016-CRT3: 010E0E27016-A
RT4: 007E0E27016-CRT5: 008E0E27016-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	13.180	13.180	13.180	13.180	13.180
beta-BHC	11.480	11.480	11.480	11.480	11.480
alpha-BHC	10.380	10.390	10.390	10.390	10.390
delta-BHC	11.920	11.920	11.930	11.920	11.930
gamma-BHC (Lindane)	11.230	11.230	11.230	11.230	11.230
4,4'-DDD	16.730	16.730	16.730	16.730	16.730
4,4'-DDE	15.400	15.400	15.400	15.400	15.400
4,4'-DDT	17.330	17.340	17.340	17.340	17.340
Dieldrin	16.060	16.060	16.060	16.060	16.060
Endosulfan I	15.520	15.520	15.520	15.520	15.520
Endosulfan II	17.070	17.070	17.070	17.070	17.070
Endosulfan sulfate	18.940	18.940	18.940	18.940	18.950
Endrin	16.570	16.570	16.570	16.570	16.570
Endrin Aldehyde	17.990	17.990	17.990	17.990	17.990
Heptachlor	12.450	12.450	12.450	12.450	12.450
Heptachlor Epoxide	14.620	14.630	14.630	14.620	14.630
Methoxychlor	18.380	18.380	18.390	18.390	18.390
Toxaphene			17.200		
(2)			17.320		
(3)			17.740		
(4)			17.940		
(5)			18.720		
Endrin Ketone	19.550	19.550	19.550	19.550	19.550
gamma-Chlordane	14.910	14.910	14.910	14.910	14.910
alpha-Chlordane	15.210	15.210	15.210	15.210	15.210
Decachlorobiphenyl	21.810	21.810	21.820	21.810	21.820
Tetrachloro-m-Xylene	8.800	8.800	8.800	8.800	8.800

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date(s): 05/28/10 05/28/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1914 2208

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	13.180	13.113	13.253
beta-BHC	11.480	11.412	11.552
alpha-BHC	10.388	10.318	10.458
delta-BHC	11.924	11.855	11.995
gamma-BHC (Lindane)	11.230	11.165	11.305
4,4'-DDD	16.730	16.658	16.798
4,4'-DDE	15.400	15.335	15.475
4,4'-DDT	17.338	17.268	17.408
Dieldrin	16.060	15.992	16.132
Endosulfan I	15.520	15.450	15.590
Endosulfan II	17.070	17.002	17.142
Endosulfan sulfate	18.942	18.875	19.015
Endrin	16.570	16.505	16.645
Endrin Aldehyde	17.990	17.923	18.063
Heptachlor	12.450	12.383	12.523
Heptachlor Epoxide	14.626	14.555	14.695
Methoxychlor	18.386	18.318	18.458
Toxaphene	17.200	17.132	17.272
(2)	17.320	17.253	17.393
(3)	17.740	17.673	17.813
(4)	17.940	17.873	18.013
(5)	18.720	18.652	18.792
Endrin Ketone	19.550	19.483	19.623
gamma-Chlordane	14.910	14.843	14.983
alpha-Chlordane	15.210	15.145	15.285
Decachlorobiphenyl	21.814	21.748	21.888
Tetrachloro-m-Xylene	8.800	8.733	8.873

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date(s): 05/28/10 05/28/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1914 2208

LAB FILE ID: RT1: 004E0E27016-CRT2: 005E0E27016-CRT3: 010E0E27016-A
RT4: 007E0E27016-CRT5: 008E0E27016-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	13.170	13.170	13.180	13.170	13.180
beta-BHC	11.570	11.570	11.570	11.570	11.570
alpha-BHC	10.390	10.390	10.390	10.390	10.390
delta-BHC	12.290	12.290	12.290	12.290	12.290
gamma-BHC (Lindane)	11.320	11.320	11.320	11.320	11.320
4,4'-DDD	16.940	16.950	16.950	16.940	16.950
4,4'-DDE	15.680	15.690	15.690	15.680	15.690
4,4'-DDT	17.620	17.620	17.620	17.620	17.620
Dieldrin	16.010	16.010	16.010	16.010	16.010
Endosulfan I	15.390	15.400	15.400	15.400	15.400
Endosulfan II	17.140	17.140	17.140	17.140	17.140
Endosulfan sulfate	18.470	18.470	18.470	18.470	18.480
Endrin	16.670	16.680	16.680	16.670	16.680
Endrin Aldehyde	17.870	17.880	17.880	17.880	17.880
Heptachlor	12.400	12.400	12.410	12.410	12.410
Heptachlor Epoxide	14.520	14.520	14.520	14.520	14.520
Methoxychlor	19.100	19.100	19.100	19.100	19.100
Toxaphene			17.320		
(2)			17.890		
(3)			18.450		
(4)			18.650		
(5)			18.990		
Endrin Ketone	19.620	19.630	19.630	19.620	19.630
gamma-Chlordane	14.950	14.950	14.950	14.950	14.950
alpha-Chlordane	15.280	15.280	15.280	15.280	15.280
Decachlorobiphenyl	22.540	22.540	22.540	22.540	22.540
Tetrachloro-m-Xylene	8.660	8.660	8.660	8.660	8.660

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date(s): 05/28/10 05/28/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1914 2208

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	13.174	13.105	13.245
beta-BHC	11.570	11.502	11.642
alpha-BHC	10.390	10.320	10.460
delta-BHC	12.290	12.220	12.360
gamma-BHC (Lindane)	11.320	11.255	11.395
4,4'-DDD	16.946	16.877	17.017
4,4'-DDE	15.686	15.615	15.755
4,4'-DDT	17.620	17.550	17.690
Dieldrin	16.010	15.940	16.080
Endosulfan I	15.398	15.328	15.468
Endosulfan II	17.140	17.073	17.213
Endosulfan sulfate	18.472	18.405	18.545
Endrin	16.676	16.607	16.747
Endrin Aldehyde	17.878	17.808	17.948
Heptachlor	12.406	12.338	12.478
Heptachlor Epoxide	14.520	14.453	14.593
Methoxychlor	19.100	19.030	19.170
Toxaphene	17.320	17.255	17.395
(2)	17.890	17.822	17.962
(3)	18.450	18.383	18.523
(4)	18.650	18.583	18.723
(5)	18.990	18.922	19.062
Endrin Ketone	19.626	19.555	19.695
gamma-Chlordane	14.950	14.883	15.023
alpha-Chlordane	15.280	15.213	15.353
Decachlorobiphenyl	22.540	22.473	22.613
Tetrachloro-m-Xylene	8.660	8.590	8.730

b. Continuing Calibration Summary (Form VII)

For all performance evaluation mixtures (if applicable) and Continuing calibration verification standards, on all GC columns and instruments, in chronological order by GC column and instrument.

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date: 05/19/10 Time: 1746

Lab File ID: 379GSEQ-CCV2 Init. Calib. Date(s): 05/05/10 05/05/10

Init. Calib. Times: 1703 1859

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	627382.50	626350.00	0.01	-0.16	20.00	AVRG
alpha-BHC	776175.00	758600.00	0.01	-2.26	20.00	AVRG
beta-BHC	291225.00	282500.00	0.01	-3.00	20.00	AVRG
delta-BHC	670705.00	647450.00	0.01	-3.47	20.00	AVRG
gamma-BHC (Lindane)	725352.50	712850.00	0.01	-1.72	20.00	AVRG
4,4'-DDD	381108.75	351150.00	0.01	-7.86	20.00	AVRG
4,4'-DDE	515756.25	495525.00	0.01	-3.92	20.00	AVRG
4,4'-DDT	433058.75	404125.00	0.01	-6.68	20.00	AVRG
Dieldrin	512807.50	500350.00	0.01	-2.43	20.00	AVRG
Endosulfan I	536925.00	560050.00	0.01	4.31	20.00	AVRG
Endosulfan II	440985.00	430250.00	0.01	-2.43	20.00	AVRG
Endosulfan sulfate	370953.75	356350.00	0.01	-3.94	20.00	AVRG
Endrin	445172.50	440925.00	0.01	-0.95	20.00	AVRG
Endrin Aldehyde	325623.75	321200.00	0.01	-1.36	20.00	AVRG
Heptachlor	686315.00	680450.00	0.01	-0.85	20.00	AVRG
Heptachlor Epoxide	585410.00	587400.00	0.01	0.34	20.00	AVRG
Methoxychlor	188501.25	174840.00	0.01	-7.25	20.00	AVRG
Endrin Ketone	439015.00	417900.00	0.01	-4.81	20.00	AVRG
gamma-Chlordane	579092.50	571500.00	0.01	-1.31	20.00	AVRG
alpha-Chlordane	502117.50	498350.00	0.01	-0.75	20.00	AVRG
Decachlorobiphenyl	372435.00	357925.00	0.01	-3.90	20.00	AVRG
Tetrachloro-m-Xylene	511075.00	503400.00	0.01	-1.50	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date: 05/19/10 Time: 1746

Lab File ID: 379GSEQ-CCV2 Init. Calib. Date(s): 05/05/10 05/05/10

Init. Calib. Times: 1703 1859

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	535117.50	518100.00	0.01	-3.18	20.00	AVRG
beta-BHC	246982.50	236300.00	0.01	-4.32	20.00	AVRG
alpha-BHC	597775.00	570750.00	0.01	-4.52	20.00	AVRG
delta-BHC	527057.50	489350.00	0.01	-7.15	20.00	AVRG
gamma-BHC (Lindane)	579612.50	559700.00	0.01	-3.44	20.00	AVRG
4,4'-DDD	318030.00	289000.00	0.01	-9.13	20.00	AVRG
4,4'-DDE	453016.25	431325.00	0.01	-4.79	20.00	AVRG
4,4'-DDT	365508.75	343025.00	0.01	-6.15	20.00	AVRG
Dieldrin	448611.25	436675.00	0.01	-2.66	20.00	AVRG
Endosulfan I	463952.50	445967.50	0.01	-3.88	20.00	AVRG
Endosulfan II	385787.50	371275.00	0.01	-3.76	20.00	AVRG
Endosulfan sulfate	337217.50	323225.00	0.01	-4.15	20.00	AVRG
Endrin	402898.75	403025.00	0.01	0.03	20.00	AVRG
Endrin Aldehyde	284671.25	274200.00	0.01	-3.68	20.00	AVRG
Heptachlor	568222.27	557300.00	0.01	-1.92	20.00	AVRG
Heptachlor Epoxide	501447.50	493350.00	0.01	-1.61	20.00	AVRG
Methoxychlor	167229.75	160010.00	0.01	-4.32	20.00	AVRG
Endrin Ketone	383353.75	364200.00	0.01	-5.00	20.00	AVRG
gamma-Chlordane	501695.00	487650.00	0.01	-2.80	20.00	AVRG
alpha-Chlordane	433530.00	418115.00	0.01	-3.56	20.00	AVRG
Decachlorobiphenyl	358403.75	336775.00	0.01	-6.03	20.00	AVRG
Tetrachloro-m-Xylene	407875.00	382900.00	0.01	-6.12	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date: 05/19/10 Time: 2304

Lab File ID: 390GSEQ-CCV4 Init. Calib. Date(s): 05/05/10 05/05/10

Init. Calib. Times: 1703 1859

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	627382.50	640550.00	0.01	2.10	20.00	AVRG
alpha-BHC	776175.00	774750.00	0.01	-0.18	20.00	AVRG
beta-BHC	291225.00	286700.00	0.01	-1.55	20.00	AVRG
delta-BHC	670705.00	661550.00	0.01	-1.36	20.00	AVRG
gamma-BHC (Lindane)	725352.50	729550.00	0.01	0.58	20.00	AVRG
4,4'-DDD	381108.75	352325.00	0.01	-7.55	20.00	AVRG
4,4'-DDE	515756.25	500150.00	0.01	-3.02	20.00	AVRG
4,4'-DDT	433058.75	411925.00	0.01	-4.88	20.00	AVRG
Dieldrin	512807.50	514200.00	0.01	0.27	20.00	AVRG
Endosulfan I	536925.00	584300.00	0.01	8.82	20.00	AVRG
Endosulfan II	440985.00	432950.00	0.01	-1.82	20.00	AVRG
Endosulfan sulfate	370953.75	355900.00	0.01	-4.06	20.00	AVRG
Endrin	445172.50	449900.00	0.01	1.06	20.00	AVRG
Endrin Aldehyde	325623.75	330550.00	0.01	1.51	20.00	AVRG
Heptachlor	686315.00	697450.00	0.01	1.62	20.00	AVRG
Heptachlor Epoxide	585410.00	600400.00	0.01	2.56	20.00	AVRG
Methoxychlor	188501.25	181100.00	0.01	-3.93	20.00	AVRG
Endrin Ketone	439015.00	420750.00	0.01	-4.16	20.00	AVRG
gamma-Chlordane	579092.50	583300.00	0.01	0.73	20.00	AVRG
alpha-Chlordane	502117.50	508400.00	0.01	1.25	20.00	AVRG
Decachlorobiphenyl	372435.00	357075.00	0.01	-4.12	20.00	AVRG
Tetrachloro-m-Xylene	511075.00	517600.00	0.01	1.28	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date: 05/19/10 Time: 2304

Lab File ID: 390GSEQ-CCV4 Init. Calib. Date(s): 05/05/10 05/05/10

Init. Calib. Times: 1703 1859

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	535117.50	535700.00	0.01	0.11	20.00	AVRG
beta-BHC	246982.50	241300.00	0.01	-2.30	20.00	AVRG
alpha-BHC	597775.00	590700.00	0.01	-1.18	20.00	AVRG
delta-BHC	527057.50	501047.50	0.01	-4.93	20.00	AVRG
gamma-BHC (Lindane)	579612.50	574850.00	0.01	-0.82	20.00	AVRG
4,4'-DDD	318030.00	291075.00	0.01	-8.48	20.00	AVRG
4,4'-DDE	453016.25	442600.00	0.01	-2.30	20.00	AVRG
4,4'-DDT	365508.75	342675.00	0.01	-6.25	20.00	AVRG
Dieldrin	448611.25	448700.00	0.01	0.02	20.00	AVRG
Endosulfan I	463952.50	459050.00	0.01	-1.06	20.00	AVRG
Endosulfan II	385787.50	386100.00	0.01	0.08	20.00	AVRG
Endosulfan sulfate	337217.50	324775.00	0.01	-3.69	20.00	AVRG
Endrin	402898.75	412175.00	0.01	2.30	20.00	AVRG
Endrin Aldehyde	284671.25	286150.00	0.01	0.52	20.00	AVRG
Heptachlor	568222.27	576017.50	0.01	1.37	20.00	AVRG
Heptachlor Epoxide	501447.50	508800.00	0.01	1.47	20.00	AVRG
Methoxychlor	167229.75	160360.00	0.01	-4.11	20.00	AVRG
Endrin Ketone	383353.75	369775.00	0.01	-3.54	20.00	AVRG
gamma-Chlordane	501695.00	500550.00	0.01	-0.23	20.00	AVRG
alpha-Chlordane	433530.00	429400.00	0.01	-0.95	20.00	AVRG
Decachlorobiphenyl	358403.75	342450.00	0.01	-4.45	20.00	AVRG
Tetrachloro-m-Xylene	407875.00	403950.00	0.01	-0.96	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date: 05/21/10 Time: 1044

Lab File ID: 408GSEQ-CCV1 Init. Calib. Date(s): 05/05/10 05/05/10

Init. Calib. Times: 1703 1859

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	627382.50	618150.00	0.01	-1.47	20.00	AVRG
alpha-BHC	776175.00	740900.00	0.01	-4.54	20.00	AVRG
beta-BHC	291225.00	272600.00	0.01	-6.40	20.00	AVRG
delta-BHC	670705.00	615100.00	0.01	-8.29	20.00	AVRG
gamma-BHC (Lindane)	725352.50	698450.00	0.01	-3.71	20.00	AVRG
4,4'-DDD	381108.75	325700.00	0.01	-14.54	20.00	AVRG
4,4'-DDE	515756.25	473000.00	0.01	-8.29	20.00	AVRG
4,4'-DDT	433058.75	386200.00	0.01	-10.82	20.00	AVRG
Dieldrin	512807.50	495350.00	0.01	-3.40	20.00	AVRG
Endosulfan I	536925.00	577700.00	0.01	7.59	20.00	AVRG
Endosulfan II	440985.00	416125.00	0.01	-5.64	20.00	AVRG
Endosulfan sulfate	370953.75	335000.00	0.01	-9.69	20.00	AVRG
Endrin	445172.50	432900.00	0.01	-2.76	20.00	AVRG
Endrin Aldehyde	325623.75	312225.00	0.01	-4.11	20.00	AVRG
Heptachlor	686315.00	671450.00	0.01	-2.16	20.00	AVRG
Heptachlor Epoxide	585410.00	577400.00	0.01	-1.37	20.00	AVRG
Methoxychlor	188501.25	170240.00	0.01	-9.69	20.00	AVRG
Endrin Ketone	439015.00	395350.00	0.01	-9.95	20.00	AVRG
gamma-Chlordane	579092.50	571400.00	0.01	-1.33	20.00	AVRG
alpha-Chlordane	502117.50	489950.00	0.01	-2.42	20.00	AVRG
Decachlorobiphenyl	372435.00	335525.00	0.01	-9.91	20.00	AVRG
Tetrachloro-m-Xylene	511075.00	495100.00	0.01	-3.12	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date: 05/21/10 Time: 1044

Lab File ID: 408GSEQ-CCV1 Init. Calib. Date(s): 05/05/10 05/05/10

Init. Calib. Times: 1703 1859

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	535117.50	509632.50	0.01	-4.76	20.00	AVRG
beta-BHC	246982.50	228225.00	0.01	-7.59	20.00	AVRG
alpha-BHC	597775.00	560965.00	0.01	-6.16	20.00	AVRG
delta-BHC	527057.50	484245.00	0.01	-8.12	20.00	AVRG
gamma-BHC (Lindane)	579612.50	545937.50	0.01	-5.81	20.00	AVRG
4,4'-DDD	318030.00	264851.25	0.01	-16.72	20.00	AVRG
4,4'-DDE	453016.25	418317.50	0.01	-7.66	20.00	AVRG
4,4'-DDT	365508.75	324926.25	0.01	-11.10	20.00	AVRG
Dieldrin	448611.25	427832.50	0.01	-4.63	20.00	AVRG
Endosulfan I	463952.50	438350.00	0.01	-5.52	20.00	AVRG
Endosulfan II	385787.50	364565.00	0.01	-5.50	20.00	AVRG
Endosulfan sulfate	337217.50	302935.00	0.01	-10.17	20.00	AVRG
Endrin	402898.75	386898.75	0.01	-3.97	20.00	AVRG
Endrin Aldehyde	284671.25	264918.75	0.01	-6.94	20.00	AVRG
Heptachlor	568222.27	568590.00	0.01	0.06	20.00	AVRG
Heptachlor Epoxide	501447.50	486907.50	0.01	-2.90	20.00	AVRG
Methoxychlor	167229.75	147657.25	0.01	-11.70	20.00	AVRG
Endrin Ketone	383353.75	348840.00	0.01	-9.00	20.00	AVRG
gamma-Chlordane	501695.00	476692.50	0.01	-4.98	20.00	AVRG
alpha-Chlordane	433530.00	409480.00	0.01	-5.55	20.00	AVRG
Decachlorobiphenyl	358403.75	324052.50	0.01	-9.58	20.00	AVRG
Tetrachloro-m-Xylene	407875.00	382030.00	0.01	-6.34	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date: 05/21/10 Time: 1602

Lab File ID: 419GSEQ-CCV3 Init. Calib. Date(s): 05/05/10 05/05/10

Init. Calib. Times: 1703 1859

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	627382.50	636400.00	0.01	1.44	20.00	AVRG
alpha-BHC	776175.00	764800.00	0.01	-1.46	20.00	AVRG
beta-BHC	291225.00	281800.00	0.01	-3.24	20.00	AVRG
delta-BHC	670705.00	636250.00	0.01	-5.14	20.00	AVRG
gamma-BHC (Lindane)	725352.50	717400.00	0.01	-1.10	20.00	AVRG
4,4'-DDD	381108.75	357725.00	0.01	-6.14	20.00	AVRG
4,4'-DDE	515756.25	483525.00	0.01	-6.25	20.00	AVRG
4,4'-DDT	433058.75	401025.00	0.01	-7.40	20.00	AVRG
Dieldrin	512807.50	508225.00	0.01	-0.89	20.00	AVRG
Endosulfan I	536925.00	586150.00	0.01	9.17	20.00	AVRG
Endosulfan II	440985.00	426725.00	0.01	-3.23	20.00	AVRG
Endosulfan sulfate	370953.75	353150.00	0.01	-4.80	20.00	AVRG
Endrin	445172.50	447850.00	0.01	0.60	20.00	AVRG
Endrin Aldehyde	325623.75	337925.00	0.01	3.78	20.00	AVRG
Heptachlor	686315.00	693000.00	0.01	0.97	20.00	AVRG
Heptachlor Epoxide	585410.00	597300.00	0.01	2.03	20.00	AVRG
Methoxychlor	188501.25	181025.00	0.01	-3.97	20.00	AVRG
Endrin Ketone	439015.00	422500.00	0.01	-3.76	20.00	AVRG
gamma-Chlordane	579092.50	580350.00	0.01	0.22	20.00	AVRG
alpha-Chlordane	502117.50	504450.00	0.01	0.46	20.00	AVRG
Decachlorobiphenyl	372435.00	363750.00	0.01	-2.33	20.00	AVRG
Tetrachloro-m-Xylene	511075.00	513450.00	0.01	0.46	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC84 Calibration Date: 05/21/10 Time: 1602

Lab File ID: 419GSEQ-CCV3 Init. Calib. Date(s): 05/05/10 05/05/10

Init. Calib. Times: 1703 1859

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	535117.50	529650.00	0.01	-1.02	20.00	AVRG
beta-BHC	246982.50	237150.00	0.01	-3.98	20.00	AVRG
alpha-BHC	597775.00	581500.00	0.01	-2.72	20.00	AVRG
delta-BHC	527057.50	499200.00	0.01	-5.28	20.00	AVRG
gamma-BHC (Lindane)	579612.50	568000.00	0.01	-2.00	20.00	AVRG
4,4'-DDD	318030.00	278700.00	0.01	-12.37	20.00	AVRG
4,4'-DDE	453016.25	433950.00	0.01	-4.21	20.00	AVRG
4,4'-DDT	365508.75	344225.00	0.01	-5.82	20.00	AVRG
Dieldrin	448611.25	444225.00	0.01	-0.98	20.00	AVRG
Endosulfan I	463952.50	454950.00	0.01	-1.94	20.00	AVRG
Endosulfan II	385787.50	398325.00	0.01	3.25	20.00	AVRG
Endosulfan sulfate	337217.50	319325.00	0.01	-5.30	20.00	AVRG
Endrin	402898.75	401900.00	0.01	-0.25	20.00	AVRG
Endrin Aldehyde	284671.25	286625.00	0.01	0.69	20.00	AVRG
Heptachlor	568222.27	588050.00	0.01	3.49	20.00	AVRG
Heptachlor Epoxide	501447.50	503950.00	0.01	0.50	20.00	AVRG
Methoxychlor	167229.75	157965.00	0.01	-5.54	20.00	AVRG
Endrin Ketone	383353.75	368975.00	0.01	-3.75	20.00	AVRG
gamma-Chlordane	501695.00	494150.00	0.01	-1.50	20.00	AVRG
alpha-Chlordane	433530.00	424400.00	0.01	-2.10	20.00	AVRG
Decachlorobiphenyl	358403.75	350275.00	0.01	-2.27	20.00	AVRG
Tetrachloro-m-Xylene	407875.00	399750.00	0.01	-1.99	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date: 05/29/10 Time: 0005

Lab File ID: 014ESEQ-CCV1 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1914 2110

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	662067.50	667242.50	0.01	0.78	20.00	AVRG
beta-BHC	317557.50	323710.00	0.01	1.94	20.00	AVRG
alpha-BHC	830132.50	835545.00	0.01	0.65	20.00	AVRG
delta-BHC	751010.00	750347.50	0.01	-0.09	20.00	AVRG
gamma-BHC (Lindane)	788407.50	792215.00	0.01	0.48	20.00	AVRG
4,4'-DDD	414075.00	411071.25	0.01	-0.72	20.00	AVRG
4,4'-DDE	562748.75	560566.25	0.01	-0.39	20.00	AVRG
4,4'-DDT	466515.00	461680.00	0.01	-1.04	20.00	AVRG
Dieldrin	543157.50	541227.50	0.01	-0.36	20.00	AVRG
Endosulfan I	584790.00	589360.00	0.01	0.78	20.00	AVRG
Endosulfan II	473162.50	474022.50	0.01	0.18	20.00	AVRG
Endosulfan sulfate	424500.00	424512.50	0.01	0.00	20.00	AVRG
Endrin	447923.75	451387.50	0.01	0.77	20.00	AVRG
Endrin Aldehyde	389548.75	396893.75	0.01	1.88	20.00	AVRG
Heptachlor	707455.91	722130.00	0.01	2.07	20.00	AVRG
Heptachlor Epoxide	626245.00	631405.00	0.01	0.82	20.00	AVRG
Methoxychlor	190364.75	187565.00	0.01	-1.47	20.00	AVRG
Endrin Ketone	493585.00	489882.50	0.01	-0.75	20.00	AVRG
gamma-Chlordane	627127.50	630227.50	0.01	0.49	20.00	AVRG
alpha-Chlordane	543742.50	547695.00	0.01	0.73	20.00	AVRG
Decachlorobiphenyl	430873.75	431745.00	0.01	0.20	20.00	AVRG
Tetrachloro-m-Xylene	503157.50	512780.00	0.01	1.91	20.00	AVRG

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date: 05/29/10 Time: 0005

Lab File ID: 014ESEQ-CCV1 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1914 2110

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	1536782.5	1668870.0	0.01	8.60	20.00	AVRG
alpha-BHC	1883720.0	2045067.5	0.01	8.56	20.00	AVRG
beta-BHC	671197.50	725530.00	0.01	8.09	20.00	AVRG
delta-BHC	1699815.0	1843060.0	0.01	8.43	20.00	AVRG
gamma-BHC (Lindane)	1779425.0	1930535.0	0.01	8.49	20.00	AVRG
4,4'-DDD	1003288.8	1072722.5	0.01	6.92	20.00	AVRG
4,4'-DDE	1321226.3	1423355.0	0.01	7.73	20.00	AVRG
4,4'-DDT	1132045.0	1211195.0	0.01	6.99	20.00	AVRG
Dieldrin	1325038.7	1425843.8	0.01	7.61	20.00	AVRG
Endosulfan I	1354612.5	1457660.0	0.01	7.61	20.00	AVRG
Endosulfan II	1146620.0	1230607.5	0.01	7.32	20.00	AVRG
Endosulfan sulfate	1022702.5	1085592.5	0.01	6.15	20.00	AVRG
Endrin	1038263.8	1123500.0	0.01	8.21	20.00	AVRG
Endrin Aldehyde	925036.25	1006928.8	0.01	8.85	20.00	AVRG
Heptachlor	1660667.5	1806110.0	0.01	8.76	20.00	AVRG
Heptachlor Epoxide	1449945.0	1562850.0	0.01	7.79	20.00	AVRG
Methoxychlor	476817.50	510928.50	0.01	7.15	20.00	AVRG
Endrin Ketone	1256033.7	1315655.0	0.01	4.75	20.00	AVRG
gamma-Chlordane	1446417.5	1551887.5	0.01	7.29	20.00	AVRG
alpha-Chlordane	1263455.0	1364022.5	0.01	7.96	20.00	AVRG
Decachlorobiphenyl	1016676.2	1073242.5	0.01	5.56	20.00	AVRG
Tetrachloro-m-Xylene	1040565.0	1119825.0	0.01	7.62	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date: 05/29/10 Time: 0652

Lab File ID: 028ESEQ-CCV2 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1914 2110

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	1536782.5	1820600.0	0.01	18.47	20.00	AVRG
alpha-BHC	1883720.0	2236622.5	0.01	18.73	20.00	AVRG
beta-BHC	671197.50	781592.50	0.01	16.45	20.00	AVRG
delta-BHC	1699815.0	2008915.0	0.01	18.18	20.00	AVRG
gamma-BHC (Lindane)	1779425.0	2106205.0	0.01	18.36	20.00	AVRG
4,4'-DDD	1003288.8	1177210.0	0.01	17.34	20.00	AVRG
4,4'-DDE	1321226.3	1573462.5	0.01	19.09	20.00	AVRG
4,4'-DDT	1132045.0	1329602.5	0.01	17.45	20.00	AVRG
Dieldrin	1325038.7	1560126.2	0.01	17.74	20.00	AVRG
Endosulfan I	1354612.5	1620467.5	0.01	19.62	20.00	AVRG
Endosulfan II	1146620.0	1344680.0	0.01	17.27	20.00	AVRG
Endosulfan sulfate	1022702.5	1187827.5	0.01	16.14	20.00	AVRG
Endrin	1038263.8	1237671.2	0.01	19.20	20.00	AVRG
Endrin Aldehyde	925036.25	1105517.5	0.01	19.51	20.00	AVRG
Heptachlor	1660667.5	1977085.0	0.01	19.05	20.00	AVRG
Heptachlor Epoxide	1449945.0	1704930.0	0.01	17.58	20.00	AVRG
Methoxychlor	476817.50	562497.50	0.01	17.97	20.00	AVRG
Endrin Ketone	1256033.7	1444021.2	0.01	14.97	20.00	AVRG
gamma-Chlordane	1446417.5	1697065.0	0.01	17.33	20.00	AVRG
alpha-Chlordane	1263455.0	1482475.0	0.01	17.34	20.00	AVRG
Decachlorobiphenyl	1016676.2	1196855.0	0.01	17.72	20.00	AVRG
Tetrachloro-m-Xylene	1040565.0	1214587.5	0.01	16.72	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: TRACEGC82 Calibration Date: 05/29/10 Time: 0652

Lab File ID: 028ESEQ-CCV2 Init. Calib. Date(s): 05/28/10 05/28/10

Init. Calib. Times: 1914 2110

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	662067.50	673402.50	0.01	1.71	20.00	AVRG
beta-BHC	317557.50	326965.00	0.01	2.96	20.00	AVRG
alpha-BHC	830132.50	841565.00	0.01	1.38	20.00	AVRG
delta-BHC	751010.00	756290.00	0.01	0.70	20.00	AVRG
gamma-BHC (Lindane)	788407.50	801605.00	0.01	1.67	20.00	AVRG
4,4'-DDD	414075.00	418730.00	0.01	1.12	20.00	AVRG
4,4'-DDE	562748.75	571890.00	0.01	1.62	20.00	AVRG
4,4'-DDT	466515.00	471195.00	0.01	1.00	20.00	AVRG
Dieldrin	543157.50	550386.25	0.01	1.33	20.00	AVRG
Endosulfan I	584790.00	596850.00	0.01	2.06	20.00	AVRG
Endosulfan II	473162.50	482382.50	0.01	1.95	20.00	AVRG
Endosulfan sulfate	424500.00	432467.50	0.01	1.88	20.00	AVRG
Endrin	447923.75	456958.75	0.01	2.02	20.00	AVRG
Endrin Aldehyde	389548.75	403072.50	0.01	3.47	20.00	AVRG
Heptachlor	707455.91	734595.00	0.01	3.84	20.00	AVRG
Heptachlor Epoxide	626245.00	639580.00	0.01	2.13	20.00	AVRG
Methoxychlor	190364.75	191737.75	0.01	0.72	20.00	AVRG
Endrin Ketone	493585.00	499330.00	0.01	1.16	20.00	AVRG
gamma-Chlordane	627127.50	642300.00	0.01	2.42	20.00	AVRG
alpha-Chlordane	543742.50	555705.00	0.01	2.20	20.00	AVRG
Decachlorobiphenyl	430873.75	441281.25	0.01	2.42	20.00	AVRG
Tetrachloro-m-Xylene	503157.50	517717.50	0.01	2.89	20.00	AVRG

FORM VII PEST

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/28/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMDA Date Analyzed :05/28/10

Lab Sample ID (PEM): 0E27016-PEM1 Time Analyzed :1844

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	15.40	15.34	15.47	341
4,4'-DDT	17.34	17.27	17.41	30863
Endrin	16.57	16.50	16.64	20874
Endrin Aldehyde	17.99	17.92	18.06	1183
Endrin Ketone	19.55	19.48	19.62	1678

4,4'-DDT % breakdown (1): 1.09 Endrin % breakdown (1): 12.0

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/28/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMDA Date Analyzed :05/28/10

Lab Sample ID (PEM): 0E27016-PEM1 Time Analyzed :1844

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.68	15.62	15.76	128
4,4'-DDE	17.62	17.55	17.69	13208
4,4'-DDT	16.68	16.61	16.75	9553
Endrin	17.88	17.81	17.95	411
Endrin Aldehyde	19.63	19.55	19.70	629
Endrin Ketone				

4,4'-DDT % breakdown (1): 0.960 Endrin % breakdown (1): 9.82

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/28/10

EPA Sample No.(PIBLK): PIBLKEA Date Analyzed :05/28/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :2336

EPA Sample No.(PEM): PEMEB Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :0034

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.73	16.66	16.80	387
4,4'-DDE	15.40	15.34	15.47	399
4,4'-DDT	17.34	17.27	17.41	37743
Endrin	16.57	16.50	16.64	26937
Endrin Aldehyde	17.99	17.92	18.06	1165
Endrin Ketone	19.55	19.48	19.62	1464

4,4'-DDT % breakdown (1): 2.04 Endrin % breakdown (1): 8.89

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/28/10

EPA Sample No.(PIBLK): PIBLKEB Date Analyzed :05/28/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :2336

EPA Sample No.(PEM): PEMEB Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :0034

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.94	16.88	17.02	99
4,4'-DDE	15.68	15.62	15.76	161
4,4'-DDT	17.62	17.55	17.69	14774
Endrin	16.67	16.61	16.75	11110
Endrin Aldehyde	17.87	17.81	17.95	505
Endrin Ketone	19.62	19.55	19.70	588

4,4'-DDT % breakdown (1): 1.73 Endrin % breakdown (1): 8.96

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/28/10

EPA Sample No.(PIBLK): PIBLKEC Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :0623

EPA Sample No.(PEM): PEMED Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :0722

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.73	16.66	16.80	268
4,4'-DDE	15.40	15.34	15.47	355
4,4'-DDT	17.34	17.27	17.41	39988
Endrin	16.58	16.50	16.64	28723
Endrin Aldehyde	18.00	17.92	18.06	924
Endrin Ketone	19.56	19.48	19.62	1192

4,4'-DDT % breakdown (1): 1.53 Endrin % breakdown (1): 6.86

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/28/10

EPA Sample No.(PIBLK): PIBLKED Date Analyzed :05/29/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :0623

EPA Sample No.(PEM): PEMED Date Analyzed :05/29/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :0722

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.95	16.88	17.02	70
4,4'-DDE	15.68	15.62	15.76	135
4,4'-DDT	17.62	17.55	17.69	14658
Endrin	16.68	16.61	16.75	11217
Endrin Aldehyde	17.88	17.81	17.95	299
Endrin Ketone	19.63	19.55	19.70	437

4,4'-DDT % breakdown (1): 1.38 Endrin % breakdown (1): 6.16

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMGA Date Analyzed :05/05/10

Lab Sample ID (PEM): 0E05010-PEM1 Time Analyzed :1634

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	14.10	14.03	14.17	112
4,4'-DDT	15.99	15.92	16.06	12871
Endrin	15.24	15.18	15.31	9360
Endrin Aldehyde	16.64	16.57	16.71	173
Endrin Ketone	18.17	18.09	18.23	334

4,4'-DDT % breakdown (1): 0.863 Endrin % breakdown (1): 5.14

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/06/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMGA Date Analyzed :05/05/10

Lab Sample ID (PEM): 0E05010-PEM1 Time Analyzed :1634

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE				
4,4'-DDT	16.14	16.07	16.21	10837
Endrin	15.20	15.13	15.27	8282
Endrin Aldehyde	16.38	16.31	16.45	90
Endrin Ketone	18.08	18.01	18.15	218

4,4'-DDT % breakdown (1): 0.00 Endrin % breakdown (1): 3.58

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

EPA Sample No.(PIBLK): PIBLKIQ Date Analyzed :05/19/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :1648

EPA Sample No.(PEM): PEMIR Date Analyzed :05/19/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :1815

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.31	15.27	15.41	163
4,4'-DDE	14.02	13.97	14.11	222
4,4'-DDT	15.91	15.86	16.00	12671
Endrin	15.15	15.11	15.25	10102
Endrin Aldehyde	16.55	16.50	16.64	332
Endrin Ketone	18.07	18.02	18.16	325

4,4'-DDT % breakdown (1): 2.95 Endrin % breakdown (1): 6.11

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

EPA Sample No.(PIBLK): PIBLKIR Date Analyzed :05/19/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :1648

EPA Sample No.(PEM): PEMIR Date Analyzed :05/19/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :1815

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.31	15.30	15.44	94
4,4'-DDE	14.08	14.06	14.21	157
4,4'-DDT	15.97	15.95	16.09	10580
Endrin	15.02	15.01	15.14	8784
Endrin Aldehyde	16.20	16.18	16.32	226
Endrin Ketone	17.89	17.88	18.02	262

4,4'-DDT % breakdown (1): 2.32 Endrin % breakdown (1): 5.26

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

EPA Sample No.(PIBLK): PIBLKIS Date Analyzed :05/19/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :2206

EPA Sample No.(PEM): PEMIT Date Analyzed :05/19/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :2333

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.31	15.27	15.41	179
4,4'-DDE	14.01	13.97	14.11	257
4,4'-DDT	15.91	15.86	16.00	13094
Endrin	15.15	15.11	15.25	10400
Endrin Aldehyde	16.55	16.50	16.64	350
Endrin Ketone	18.07	18.02	18.16	323

4,4'-DDT % breakdown (1): 3.22 Endrin % breakdown (1): 6.08

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

EPA Sample No.(PIBLK): PIBLKIT Date Analyzed :05/19/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :2206

EPA Sample No.(PEM): PEMIT Date Analyzed :05/19/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :2333

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.31	15.30	15.44	93
4,4'-DDE	14.07	14.06	14.21	181
4,4'-DDT	15.96	15.95	16.09	10834
Endrin	15.01	15.01	15.14	9149
Endrin Aldehyde	16.19	16.18	16.32	254
Endrin Ketone	17.89	17.88	18.02	273

4,4'-DDT % breakdown (1): 2.47 Endrin % breakdown (1): 5.45

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

EPA Sample No.(PIBLK): PIBLKRW Date Analyzed :05/21/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :1015

EPA Sample No.(PEM): PEMRW Date Analyzed :05/21/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :1113

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	14.01	13.94	14.08	218
4,4'-DDT	15.90	15.83	15.97	11633
Endrin	15.14	15.08	15.22	9872
Endrin Aldehyde	16.54	16.47	16.61	417
Endrin Ketone	18.07	17.99	18.13	409

4,4'-DDT % breakdown (1): 1.84 Endrin % breakdown (1): 7.72

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

EPA Sample No.(PIBLK): PIBLKRX Date Analyzed :05/21/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :1015

EPA Sample No.(PEM): PEMRX Date Analyzed :05/21/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :1113

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	14.07	14.01	14.14	217
4,4'-DDT	15.96	15.89	16.04	9463
Endrin	15.01	14.94	15.08	8499
Endrin Aldehyde	16.19	16.12	16.26	312
Endrin Ketone	17.88	17.81	17.95	331

4,4'-DDT % breakdown (1): 2.24 Endrin % breakdown (1): 7.03

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

EPA Sample No.(PIBLK): PIBLKRY Date Analyzed :05/21/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :1504

EPA Sample No.(PEM): PEMRZ Date Analyzed :05/21/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :1631

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.33	15.27	15.41	61
4,4'-DDE	14.01	13.97	14.11	221
4,4'-DDT	15.90	15.86	16.00	11791
Endrin	15.14	15.11	15.25	10166
Endrin Aldehyde	16.54	16.50	16.64	372
Endrin Ketone	18.06	18.02	18.16	422

4,4'-DDT % breakdown (1): 2.34 Endrin % breakdown (1): 7.24

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

EPA Sample No.(PIBLK): PIBLKRZ Date Analyzed :05/21/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :1504

EPA Sample No.(PEM): PEMRZ Date Analyzed :05/21/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :1631

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	15.31	15.24	15.38	129
4,4'-DDE	14.07	14.01	14.14	211
4,4'-DDT	15.96	15.89	16.04	9451
Endrin	15.00	14.94	15.08	8802
Endrin Aldehyde	16.18	16.12	16.26	234
Endrin Ketone	17.87	17.81	17.95	310

4,4'-DDT % breakdown (1): 3.47 Endrin % breakdown (1): 5.82

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

c. Analytical Sequence (Form VIII)

For all GC columns, all instruments, in chronological order by GC column and instrument

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/11/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:20.24 TCX:7.70
SURROGATE RT FROM CONTINUING CALIBRATION DCB:20.16 TCX:7.64

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMGA	0E05010-PEM1	05/05/10	1634	20.24	7.71
02	INDC1GA	0E05010-CAL1	05/05/10	1703	20.24	7.71
03	INDC2GA	0E05010-CAL2	05/05/10	1732	20.24	7.71
04	INDC3GA	0E05010-CAL3	05/05/10	1801	20.24	7.70
05	INDC4GA	0E05010-CAL4	05/05/10	1830	20.24	7.71
06	INDC5GA	0E05010-CAL5	05/05/10	1859	20.24	7.70
07	TOXAPH3GA	0E05010-ARC1	05/05/10	1928	20.24	7.70
08	CHLORO3GA	0E05010-ARC2	05/05/10	1957	20.24	7.71
09	PIBLKIQ	SEQ-CCB1	05/19/10	1648	20.16	7.64
10	INDC3IR	SEQ-CCV2	05/19/10	1746	20.16	7.64
11	PEMIR	SEQ-PEM1	05/19/10	1815	20.16	7.64
12	PBLKBM	0051904-BLK1	05/19/10	1844	20.15	7.63
13	EB051210-SS	1005131-01	05/19/10	2011	20.15	7.63
14	PIBLKIS	SEQ-CCB2	05/19/10	2206	20.16	7.63
15	INDC3IT	SEQ-CCV4	05/19/10	2304	20.15	7.64
16	PEMIT	SEQ-PEM2	05/19/10	2333	20.15	7.63
17	PIBLKRW	SEQ-CCB1	05/21/10	1015	20.16	7.64
18	INDC3RW	SEQ-CCV1	05/21/10	1044	20.15	7.63
19	PEMRW	SEQ-PEM1	05/21/10	1113	20.16	7.63
20	PBLKBQ	0052020-BLK1	05/21/10	1142	20.15	7.63
21	PBQLCS	0052020-BS1	05/21/10	1211	20.15	7.63
22	PBQLCSD	0052020-BSD1	05/21/10	1240	20.15	7.63
23	EB051210-SSR	1005131-01RE	05/21/10	1309	20.14	7.63
24	EB051310-SB	1005131-02RE	05/21/10	1338	20.15	7.63
25	BBG-FB051310	1005131-03RE	05/21/10	1407	20.15	7.63
26	PIBLKRY	SEQ-CCB2	05/21/10	1504	20.16	7.63
27	INDC3RZ	SEQ-CCV3	05/21/10	1602	20.15	7.63
28	PEMRZ	SEQ-PEM2	05/21/10	1631	20.15	7.63
29						
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/05/10 05/06/10

Instrument ID: TRACEGC84

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:20.67 TCX:7.45
SURROGATE RT FROM CONTINUING CALIBRATION DCB:20.49 TCX:7.31

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMGA	0E05010-PEM1	05/05/10	1634	20.67	7.45
02	INDC1GA	0E05010-CAL1	05/05/10	1703	20.67	7.44
03	INDC2GA	0E05010-CAL2	05/05/10	1732	20.67	7.45
04	INDC3GA	0E05010-CAL3	05/05/10	1801	20.67	7.45
05	INDC4GA	0E05010-CAL4	05/05/10	1830	20.67	7.45
06	INDC5GA	0E05010-CAL5	05/05/10	1859	20.67	7.45
07	TOXAPH3GA	0E05010-ARC1	05/05/10	1928	20.67	7.45
08	CHLORO3GA	0E05010-ARC2	05/05/10	1957	20.67	7.45
09	PIBLKIR	SEQ-CCB1	05/19/10	1648	20.49	7.31
10	INDC3IR	SEQ-CCV2	05/19/10	1746	20.49	7.31
11	PEMIR	SEQ-PEM1	05/19/10	1815	20.49	7.31
12	PBLKBM	0051904-BLK1	05/19/10	1844	20.49	7.31
13	EB051210-SS	1005131-01	05/19/10	2011	20.49	7.31
14	PIBLKIT	SEQ-CCB2	05/19/10	2206	20.49	7.31
15	INDC3IT	SEQ-CCV4	05/19/10	2304	20.48	7.31
16	PEMIT	SEQ-PEM2	05/19/10	2333	20.48	7.31
17	PIBLKRX	SEQ-CCB1	05/21/10	1015	20.48	7.30
18	INDC3RX	SEQ-CCV1	05/21/10	1044	20.48	7.31
19	PEMRX	SEQ-PEM1	05/21/10	1113	20.48	7.30
20	PBLKBQ	0052020-BLK1	05/21/10	1142	20.48	7.30
21	PBQLCS	0052020-BS1	05/21/10	1211	20.48	7.30
22	PBQLCSD	0052020-BSD1	05/21/10	1240	20.48	7.30
23	EB051210-SSR	1005131-01RE	05/21/10	1309	20.48	7.30
24	EB051310-SB	1005131-02RE	05/21/10	1338	20.48	7.30
25	BBG-FB051310	1005131-03RE	05/21/10	1407	20.48	7.30
26	PIBLKRZ	SEQ-CCB2	05/21/10	1504	20.48	7.30
27	INDC3RZ	SEQ-CCV3	05/21/10	1602	20.48	7.30
28	PEMRZ	SEQ-PEM2	05/21/10	1631	20.48	7.30
29						
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/28/10

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 21.82 TCX: 8.80

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMDA	0E27016-PEM1	05/28/10	1844	21.81	8.80
02	INDC1DA	0E27016-CAL1	05/28/10	1914	21.81	8.80
03	INDC2DA	0E27016-CAL2	05/28/10	1943	21.81	8.80
04	INDC3DA	0E27016-CAL3	05/28/10	2012	21.82	8.80
05	INDC4DA	0E27016-CAL4	05/28/10	2041	21.81	8.80
06	INDC5DA	0E27016-CAL5	05/28/10	2110	21.82	8.80
07	TOXAPH3DA	0E27016-ARC1	05/28/10	2139	21.82	8.80
08	CHLORO3DA	0E27016-ARC2	05/28/10	2208	21.82	8.80
09	PIBLKEA	SEQ-CCB1	05/28/10	2336	21.82	8.80
10	INDC3EB	SEQ-CCV1	05/29/10	0005	21.82	8.80
11	PEMEB	SEQ-PEM1	05/29/10	0034	21.82	8.80
12	PBLKCA	0052401-BLK1	05/29/10	0103	21.82	8.80
13	PCALCS	0052401-BS1	05/29/10	0132	21.82	8.80
14	PCALCSD	0052401-BSD1	05/29/10	0201	21.82	8.80
15	BBG-FB051810	1005131-04	05/29/10	0230	21.83	8.80
16	EB051810-SS	1005131-05	05/29/10	0300	21.82	8.80
17	PIBLKEC	SEQ-CCB2	05/29/10	0623	21.83	8.80
18	INDC3ED	SEQ-CCV2	05/29/10	0652	21.83	8.80
19	PEMED	SEQ-PEM2	05/29/10	0722	21.83	8.80
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 05/28/10 05/28/10

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 22.54 TCX: 8.66

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMDA	0E27016-PEM1	05/28/10	1844	22.54	8.66
02	INDC1DA	0E27016-CAL1	05/28/10	1914	22.54	8.66
03	INDC2DA	0E27016-CAL2	05/28/10	1943	22.54	8.66
04	INDC3DA	0E27016-CAL3	05/28/10	2012	22.54	8.66
05	INDC4DA	0E27016-CAL4	05/28/10	2041	22.54	8.66
06	INDC5DA	0E27016-CAL5	05/28/10	2110	22.54	8.66
07	TOXAPH3DA	0E27016-ARC1	05/28/10	2139	22.54	8.66
08	CHLORO3DA	0E27016-ARC2	05/28/10	2208	22.54	8.66
09	PIBLKEB	SEQ-CCB1	05/28/10	2336	22.54	8.66
10	INDC3EB	SEQ-CCV1	05/29/10	0005	22.54	8.66
11	PEMEB	SEQ-PEM1	05/29/10	0034	22.54	8.66
12	PBLKCA	0052401-BLK1	05/29/10	0103	22.54	8.66
13	PCALCS	0052401-BS1	05/29/10	0132	22.54	8.66
14	PCALCSD	0052401-BSD1	05/29/10	0201	22.54	8.66
15	BBG-FB051810	1005131-04	05/29/10	0230	22.55	8.66
16	EB051810-SS	1005131-05	05/29/10	0300	22.54	8.66
17	PIBLKED	SEQ-CCB2	05/29/10	0623	22.54	8.66
18	INDC3ED	SEQ-CCV2	05/29/10	0652	22.54	8.66
19	PEMED	SEQ-PEM2	05/29/10	0722	22.54	8.66
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

d. Identification Summary for Single Component Analytes (Form X)

For all samples with positively identified single component analytes, in order by increasing Client Sample ID number.

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

BBG-FB051810

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 1005131-04 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	11.51	11.41	11.55	0.0060	
	2	11.56	11.50	11.64	0.014	80.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

EB051810-SS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 1005131-05 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	11.51	11.41	11.55	0.0074	
	2	11.56	11.50	11.64	0.024	105.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBLKCA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052401-BLK1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	11.52	11.41	11.55	0.0093	
	2	11.56	11.50	11.64	0.016	53.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBQLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052020-BS1 Date(s) Analyzed: 05/21/10 05/21/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	11.83	11.76	11.90	0.097	
	2	11.61	11.54	11.68	0.094	3.1
beta-BHC	1	10.19	10.12	10.26	0.14	
	2	10.06	10.00	10.14	0.16	13.3
alpha-BHC	1	9.13	9.06	9.20	0.14	
	2	8.92	8.86	8.99	0.14	0.0
delta-BHC	1	10.61	10.54	10.68	0.15	
	2	10.76	10.69	10.83	0.15	0.0
gamma-BHC (Lindane)	1	9.95	9.88	10.02	0.14	
	2	9.82	9.75	9.89	0.13	7.4
4,4'-DDD	1	15.31	15.24	15.38	0.36	
	2	15.30	15.24	15.38	0.36	0.0
4,4'-DDE	1	14.01	13.94	14.08	0.35	
	2	14.07	14.01	14.14	0.35	0.0
4,4'-DDT	1	15.90	15.83	15.97	0.32	
	2	15.96	15.89	16.04	0.33	3.1

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBQLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052020-BS1 Date(s) Analyzed: 05/21/10 05/21/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	14.64	14.57	14.71	0.36	
	2	14.36	14.29	14.44	0.38	5.4
Endosulfan I	1	14.12	14.04	14.19	0.14	
	2	13.77	13.70	13.84	0.14	0.0
Endosulfan II	1	15.63	15.56	15.70	0.35	
	2	15.47	15.40	15.54	0.36	2.8
Endosulfan sulfate	1	17.47	17.40	17.54	0.33	
	2	16.77	16.70	16.84	0.33	0.0
Endrin	1	15.15	15.08	15.22	0.33	
	2	15.01	14.94	15.08	0.34	3.0
Endrin Aldehyde	1	16.54	16.47	16.61	0.20	
	2	16.18	16.12	16.26	0.22	9.5
Heptachlor	1	11.12	11.05	11.19	0.14	
	2	10.87	10.80	10.94	0.15	6.9
Heptachlor Epoxide	1	13.24	13.17	13.31	0.16	
	2	12.92	12.85	12.99	0.16	0.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBQLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052020-BS1 Date(s) Analyzed: 05/21/10 05/21/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	16.93	16.87	17.01	0.37	
	2	17.41	17.35	17.49	0.38	2.7
Endrin Ketone	1	18.06	17.99	18.13	0.38	
	2	17.88	17.81	17.95	0.39	2.6
gamma-Chlordane	1	13.52	13.45	13.59	0.14	
	2	13.34	13.27	13.41	0.14	0.0
alpha-Chlordane	1	13.82	13.74	13.88	0.16	
	2	13.66	13.60	13.73	0.16	0.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBQLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052020-BSD1 Date(s) Analyzed: 05/21/10 05/21/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	11.83	11.76	11.90	0.12	
	2	11.61	11.54	11.68	0.12	0.0
beta-BHC	1	10.19	10.12	10.26	0.16	
	2	10.06	10.00	10.14	0.18	11.8
alpha-BHC	1	9.13	9.06	9.20	0.16	
	2	8.92	8.86	8.99	0.16	0.0
delta-BHC	1	10.61	10.54	10.68	0.17	
	2	10.75	10.69	10.83	0.18	5.7
gamma-BHC (Lindane)	1	9.95	9.88	10.02	0.16	
	2	9.81	9.75	9.89	0.15	6.4
4,4'-DDD	1	15.31	15.24	15.38	0.40	
	2	15.30	15.24	15.38	0.41	2.5
4,4'-DDE	1	14.01	13.94	14.08	0.39	
	2	14.07	14.01	14.14	0.39	0.0
4,4'-DDT	1	15.90	15.83	15.97	0.36	
	2	15.96	15.89	16.04	0.37	2.7

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBQLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052020-BSD1 Date(s) Analyzed: 05/21/10 05/21/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	14.64	14.57	14.71	0.40	
	2	14.36	14.29	14.44	0.43	7.2
Endosulfan I	1	14.11	14.04	14.19	0.16	
	2	13.77	13.70	13.84	0.15	6.4
Endosulfan II	1	15.63	15.56	15.70	0.39	
	2	15.46	15.40	15.54	0.40	2.5
Endosulfan sulfate	1	17.47	17.40	17.54	0.37	
	2	16.77	16.70	16.84	0.37	0.0
Endrin	1	15.15	15.08	15.22	0.39	
	2	15.01	14.94	15.08	0.40	2.5
Endrin Aldehyde	1	16.54	16.47	16.61	0.23	
	2	16.18	16.12	16.26	0.25	8.3
Heptachlor	1	11.12	11.05	11.19	0.16	
	2	10.87	10.80	10.94	0.17	6.1
Heptachlor Epoxide	1	13.24	13.17	13.31	0.18	
	2	12.91	12.85	12.99	0.18	0.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBQLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052020-BSD1 Date(s) Analyzed: 05/21/10 05/21/10

Instrument ID (1): TRACEGC84 Instrument ID (2): TRACEGC84

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	16.93	16.87	17.01	0.42	
	2	17.41	17.35	17.49	0.43	2.4
Endrin Ketone	1	18.06	17.99	18.13	0.42	
	2	17.88	17.81	17.95	0.43	2.4
gamma-Chlordane	1	13.52	13.45	13.59	0.16	
	2	13.34	13.27	13.41	0.16	0.0
alpha-Chlordane	1	13.81	13.74	13.88	0.17	
	2	13.66	13.60	13.73	0.18	5.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCALCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052401-BS1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.18	13.11	13.25	0.14	
	2	13.17	13.11	13.24	0.12	15.4
beta-BHC	1	11.48	11.41	11.55	0.16	
	2	11.57	11.50	11.64	0.14	13.3
alpha-BHC	1	10.39	10.32	10.46	0.17	
	2	10.39	10.32	10.46	0.15	12.5
delta-BHC	1	11.93	11.86	11.99	0.18	
	2	12.29	12.22	12.36	0.16	11.8
gamma-BHC (Lindane)	1	11.23	11.16	11.30	0.15	
	2	11.32	11.26	11.39	0.14	6.9
4,4'-DDD	1	16.73	16.66	16.80	0.44	
	2	16.95	16.88	17.02	0.39	12.0
4,4'-DDE	1	15.40	15.34	15.47	0.42	
	2	15.68	15.62	15.76	0.36	15.4
4,4'-DDT	1	17.34	17.27	17.41	0.40	
	2	17.62	17.55	17.69	0.35	13.3

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCALCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052401-BS1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	16.06	15.99	16.13	0.44	
	2	16.01	15.94	16.08	0.38	14.6
Endosulfan I	1	15.52	15.45	15.59	0.16	
	2	15.40	15.33	15.47	0.14	13.3
Endosulfan II	1	17.07	17.00	17.14	0.43	
	2	17.14	17.07	17.21	0.38	12.3
Endosulfan sulfate	1	18.95	18.87	19.02	0.41	
	2	18.47	18.41	18.55	0.36	13.0
Endrin	1	16.57	16.50	16.64	0.42	
	2	16.68	16.61	16.75	0.37	12.6
Endrin Aldehyde	1	17.99	17.92	18.06	0.32	
	2	17.88	17.81	17.95	0.29	9.8
Heptachlor	1	12.45	12.38	12.52	0.18	
	2	12.41	12.34	12.48	0.16	11.8
Heptachlor Epoxide	1	14.63	14.55	14.70	0.18	
	2	14.52	14.45	14.59	0.16	11.8

FORM X PEST-1

10A

EPA SAMPLE NO.

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

PCALCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052401-BS1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	18.39	18.32	18.46	0.47	
	2	19.10	19.03	19.17	0.44	6.6
Endrin Ketone	1	19.55	19.48	19.62	0.46	
	2	19.62	19.55	19.70	0.41	11.5
gamma-Chlordane	1	14.91	14.84	14.98	0.16	
	2	14.95	14.88	15.02	0.14	13.3
alpha-Chlordane	1	15.21	15.14	15.29	0.18	
	2	15.28	15.21	15.35	0.16	11.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCALCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052401-BSD1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.18	13.11	13.25	0.13	
	2	13.17	13.11	13.24	0.12	8.0
beta-BHC	1	11.48	11.41	11.55	0.14	
	2	11.57	11.50	11.64	0.14	0.0
alpha-BHC	1	10.39	10.32	10.46	0.17	
	2	10.39	10.32	10.46	0.14	19.4
delta-BHC	1	11.92	11.86	11.99	0.17	
	2	12.29	12.22	12.36	0.15	12.5
gamma-BHC (Lindane)	1	11.23	11.16	11.30	0.15	
	2	11.32	11.26	11.39	0.13	14.3
4,4'-DDD	1	16.73	16.66	16.80	0.41	
	2	16.95	16.88	17.02	0.36	13.0
4,4'-DDE	1	15.40	15.34	15.47	0.40	
	2	15.68	15.62	15.76	0.35	13.3
4,4'-DDT	1	17.34	17.27	17.41	0.37	
	2	17.62	17.55	17.69	0.32	14.5

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCALCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052401-BSD1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	16.06	15.99	16.13	0.42	
	2	16.01	15.94	16.08	0.36	15.4
Endosulfan I	1	15.52	15.45	15.59	0.15	
	2	15.40	15.33	15.47	0.13	14.3
Endosulfan II	1	17.07	17.00	17.14	0.39	
	2	17.14	17.07	17.21	0.34	13.7
Endosulfan sulfate	1	18.95	18.87	19.02	0.37	
	2	18.47	18.41	18.55	0.33	11.4
Endrin	1	16.57	16.50	16.64	0.39	
	2	16.68	16.61	16.75	0.34	13.7
Endrin Aldehyde	1	17.99	17.92	18.06	0.29	
	2	17.88	17.81	17.95	0.26	10.9
Heptachlor	1	12.45	12.38	12.52	0.17	
	2	12.41	12.34	12.48	0.15	12.5
Heptachlor Epoxide	1	14.63	14.55	14.70	0.17	
	2	14.52	14.45	14.59	0.15	12.5

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCALCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab Sample ID: 0052401-BSD1 Date(s) Analyzed: 05/29/10 05/29/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	18.39	18.32	18.46	0.41	
	2	19.10	19.03	19.17	0.39	5.0
Endrin Ketone	1	19.55	19.48	19.62	0.41	
	2	19.62	19.55	19.70	0.37	10.2
gamma-Chlordane	1	14.91	14.84	14.98	0.16	
	2	14.95	14.88	15.02	0.14	13.3
alpha-Chlordane	1	15.21	15.14	15.29	0.17	
	2	15.28	15.21	15.35	0.15	12.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

e. Identification Summary for Multicomponent Analytes (Form X) – if applicable

For all samples with positively identified multicomponent analytes, in order by increasing Client Sample ID number.

f. Chromatograms and Data System Printouts

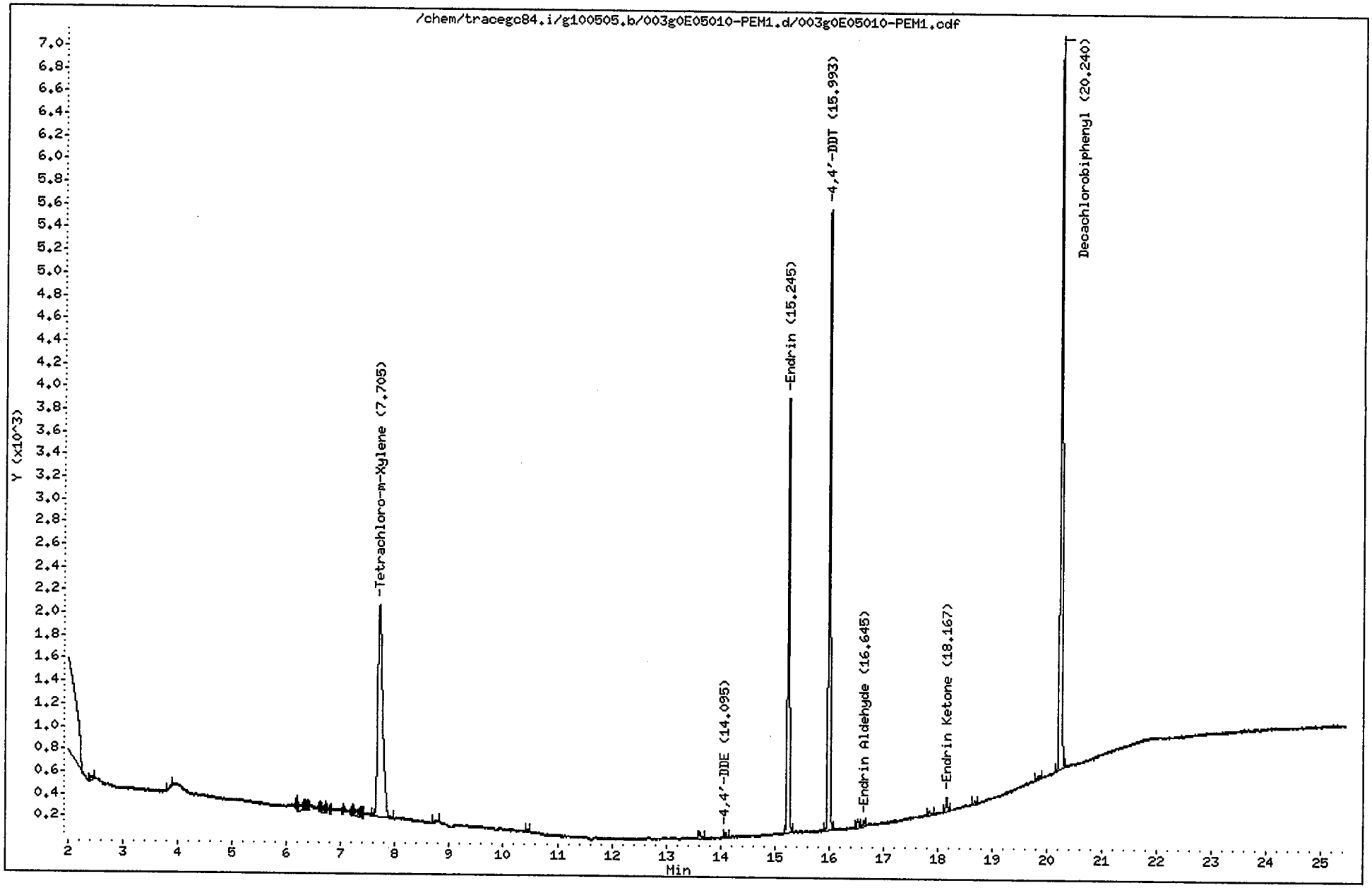
For all methods, standards packages shall include
The following:

- Performance evaluation mixtures (8081 only)
- Initial Calibration Standards
- Second Source Initial Calibration Verifications (if required by client)
- Continuing Calibration Verification Standards
- The quantitation report must include the Client Sample ID number.
- The chromatograms shall include the following: Client Sample ID number for the standard, labeled standard peaks, volume injected, for each standard, date and time of injection, GC column identifier, and GC Instrument identifier

Data File: /chem/tracegc84.i/g100505.b/003g0E05010-PEM1.d
Date : 05-MAY-2010 16:34
Client ID: PEMGA
Sample Info: 0E05010-PEM1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-PEM1 Client Smp Id : PEMGA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 05-MAY-2010 16:34 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : PEMGA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

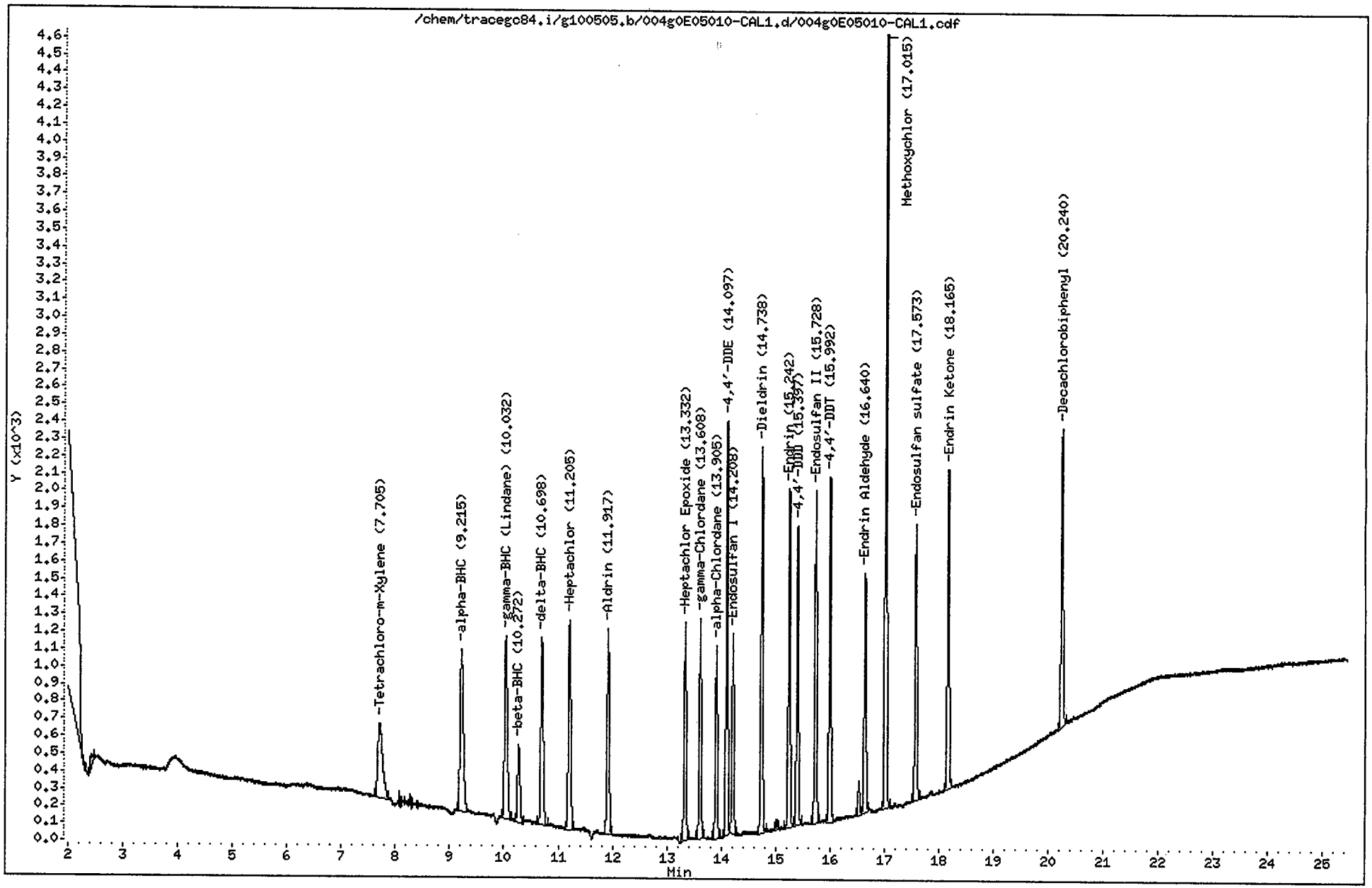
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.30			99								
0.39			156								
0.42			116								
0.49			120								
1.04			82								
1.15			63								
1.19			98								
1.43			82574								
2.41			136								
3.86			65								
6.17			72								
6.22			231								
6.31			109								
6.36			177								
6.60			105								
6.64			295								
7.21			93								
7.24			289								
7.38			177								
7.70	7.63	7.77	11779	511077	Tetrachloro-m-Xylene	0.023047	0.023047		116.4	43 - 135	
8.74			83								
10.44			53								
13.62			193								
14.10	14.03	14.17	113	515756	4,4'-DDE	0.000219	0.000219	0.020000			J
15.24	15.17	15.31	9360	445172	Endrin	0.021026	0.021026	0.020000			
15.99	15.92	16.06	12872	433059	4,4'-DDT	0.029722	0.029722	0.020000			
16.53			195								
16.64	16.57	16.71	174	325624	Endrin Aldehyde	0.000533	0.000533	0.020000			J
17.85			123								
18.17	18.09	18.23	334	439015	Endrin Ketone	0.000761	0.000761	0.020000			J
18.68			78								
19.84			116								
20.24	20.17	20.31	16131	372436	Decachlorobiphenyl	0.043312	0.043312		109.4	43 - 144	

5/6/10

Data File: /chem/tracegc84.i/g100505.b/004g0E05010-CAL1.d
Date : 05-MAY-2010 17:03
Client ID: INDC1GA
Sample Info: 0E05010-CAL1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



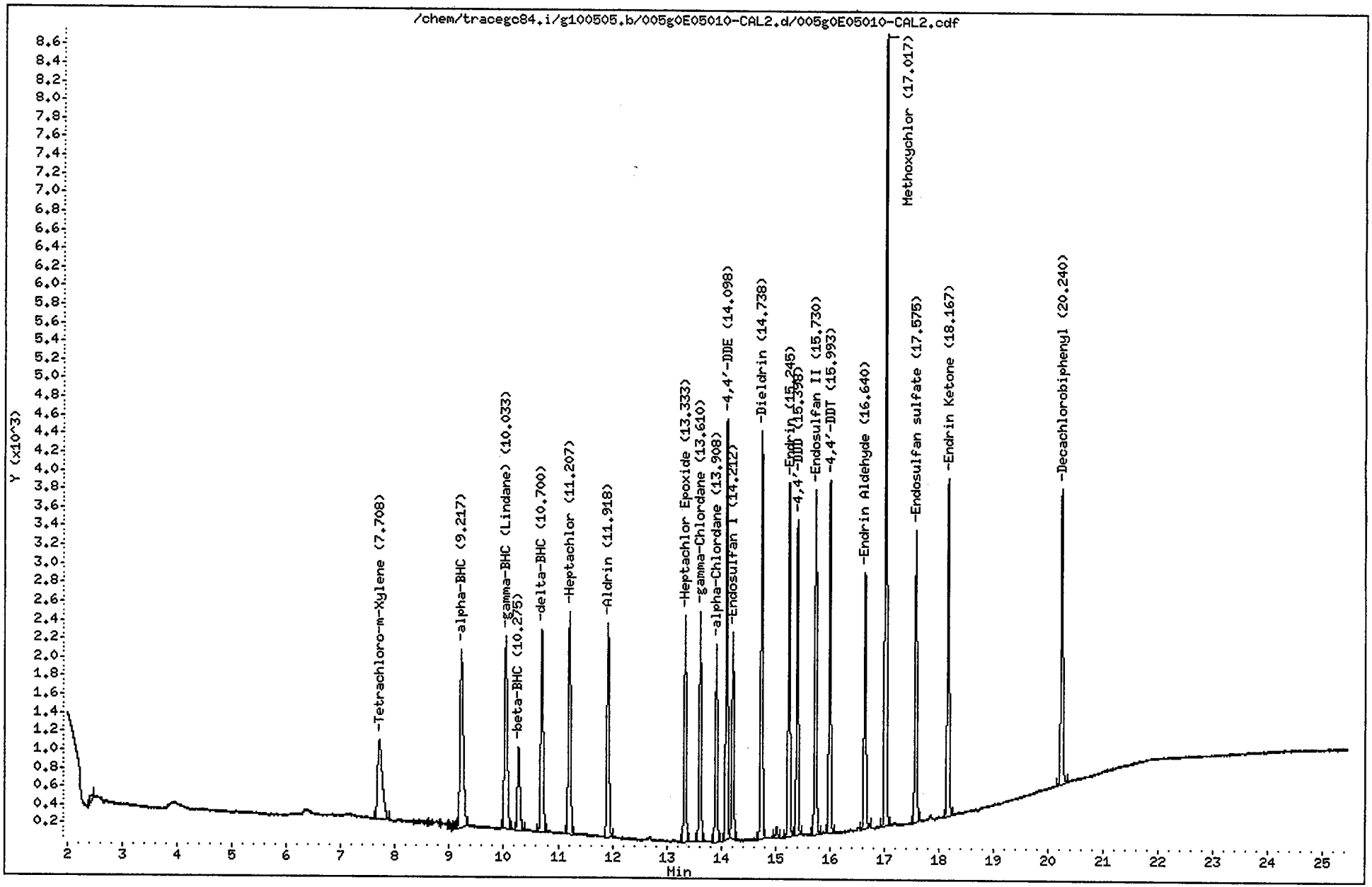
CompuChem

Lab Smp Id : 0E05010-CAL1 Client Smp Id : INDC1GA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 05-MAY-2010 17:03 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : INDC1GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44			239781					
2.42			215					
7.70	7.64	7.78	2633	511077	Tetrachloro-m-Xylene	0.005000	526400	
9.22	9.15	9.29	3853	776175	alpha-BHC	0.005000	770600	
10.03	9.96	10.10	3675	725352	gamma-BHC (Lindane)	0.005000	735000	
10.27	10.20	10.34	1522	291225	beta-BHC	0.005000	304400	
10.70	10.63	10.77	3357	670705	delta-BHC	0.005000	671400	
11.20	11.14	11.28	3624	686315	Heptachlor	0.005000	724800	
11.92	11.85	11.99	3289	627382	Aldrin	0.005000	657800	
13.33	13.26	13.40	3184	585410	Heptachlor Epoxide	0.005000	636800	
13.61	13.54	13.68	3094	579092	gamma-Chlordane	0.005000	618800	
13.90	13.84	13.98	2673	502118	alpha-Chlordane	0.005000	534400	
14.10	14.03	14.17	5439	515756	4,4'-DDE	0.010000	543900	
14.21	14.14	14.28	2819	536925	Endosulfan I	0.005000	563800	
14.74	14.67	14.81	5345	512808	Dieldrin	0.010000	534500	
15.02			140					
15.24	15.17	15.31	4742	445172	Endrin	0.010000	474200	
15.40	15.33	15.47	3939	381109	4,4'-DDD	0.010000	393800	
15.73	15.66	15.80	4627	440985	Endosulfan II	0.010000	462600	
15.99	15.92	16.06	4605	433059	4,4'-DDT	0.010000	460400	
16.53			445					
16.64	16.57	16.71	3334	325624	Endrin Aldehyde	0.010000	333400	
17.02	16.95	17.09	10224	188501	Methoxychlor	0.050000	204460	
17.57	17.50	17.64	3905	370954	Endosulfan sulfate	0.010000	390400	
18.16	18.09	18.23	4558	439015	Endrin Ketone	0.010000	455700	
20.24	20.17	20.31	4165	372436	Decachlorobiphenyl	0.010000	416500	

Data File: /chem/tracegc84.i/g100505.b/005g0E05010-CAL2.d
Date : 05-MAY-2010 17:32
Client ID: INDC2GA
Sample Info: 0E05010-CAL2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



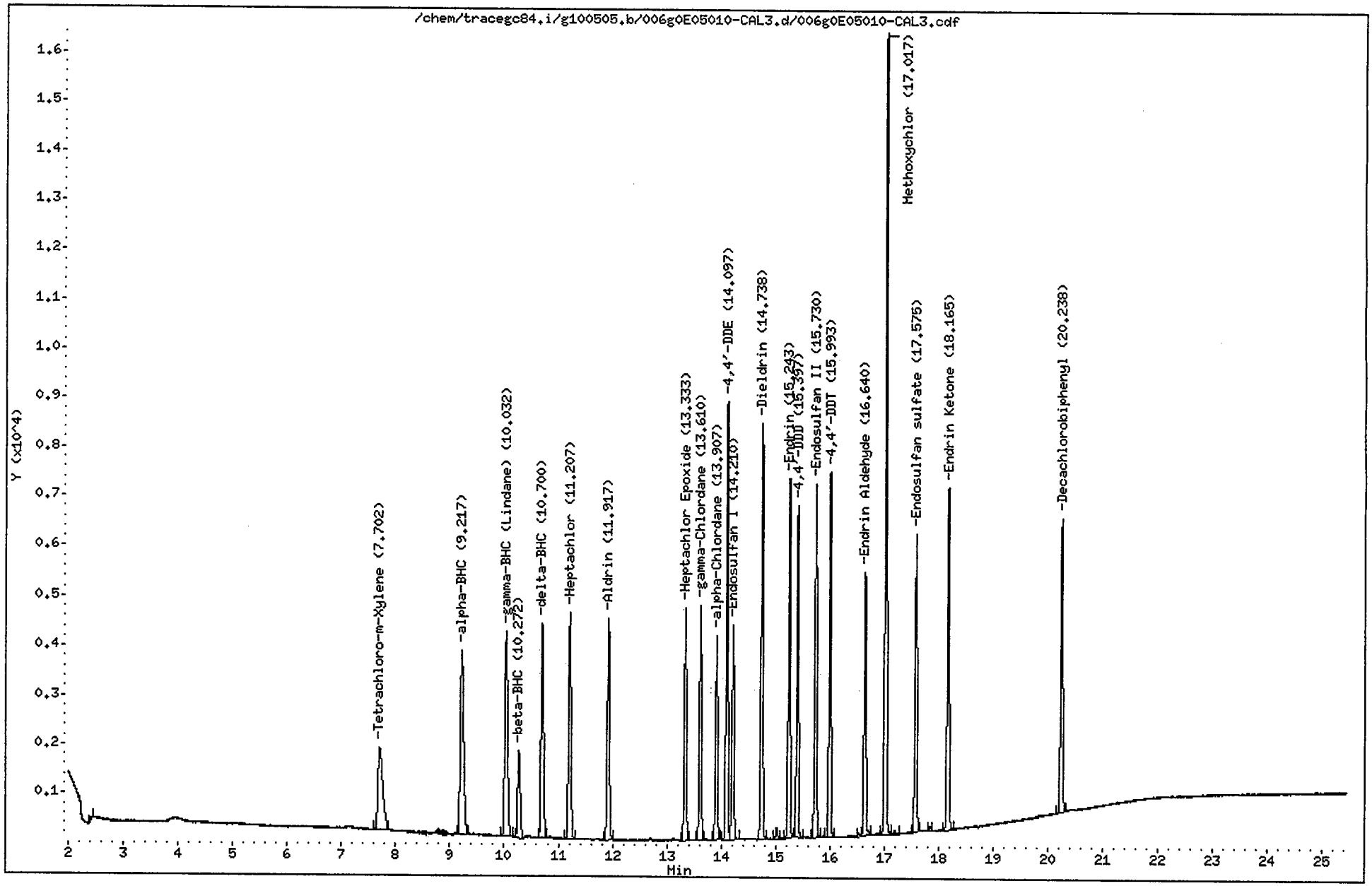
CompuChem

Lab Smp Id : 0E05010-CAL2 Client Smp Id : INDC2GA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 05-MAY-2010 17:32 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : INDC2GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44			34415					
2.42			281					
7.71	7.64	7.78	5232	511077	Tetrachloro-m-Xylene	0.010000	523100	
9.22	9.15	9.29	8053	776175	alpha-BHC	0.010000	805200	
10.03	9.96	10.10	7348	725352	gamma-BHC (Lindane)	0.010000	734800	
10.28	10.20	10.34	2992	291225	beta-BHC	0.010000	299100	
10.70	10.63	10.77	6778	670705	delta-BHC	0.010000	677800	
11.21	11.14	11.28	7131	686315	Heptachlor	0.010000	713000	
11.92	11.85	11.99	6495	627382	Aldrin	0.010000	649400	
13.33	13.26	13.40	6094	585410	Heptachlor Epoxide	0.010000	609300	
13.61	13.54	13.68	6072	579092	gamma-Chlordane	0.010000	607200	
13.91	13.84	13.98	5232	502118	alpha-Chlordane	0.010000	523200	
14.10	14.03	14.17	10594	515756	4,4'-DDE	0.020000	529700	
14.21	14.14	14.28	5507	536925	Endosulfan I	0.010000	550700	
14.74	14.67	14.81	10632	512808	Dieldrin	0.020000	531600	
15.02			264					
15.24	15.17	15.31	9231	445172	Endrin	0.020000	461500	
15.40	15.33	15.47	7812	381109	4,4'-DDD	0.020000	390550	
15.73	15.66	15.80	9171	440985	Endosulfan II	0.020000	458550	
15.99	15.92	16.06	8872	433059	4,4'-DDT	0.020000	443550	
16.64	16.57	16.71	6833	325624	Endrin Aldehyde	0.020000	341600	
17.02	16.95	17.09	19914	188501	Methoxychlor	0.100000	199130	
17.58	17.50	17.64	7707	370954	Endosulfan sulfate	0.020000	385300	
18.17	18.09	18.23	9072	439015	Endrin Ketone	0.020000	453600	
20.24	20.17	20.31	7927	372436	Decachlorobiphenyl	0.020000	396300	

Data File: /chem/tracegc84.i/g100505.b/006g0E05010-CAL3.d
Date : 05-MAY-2010 18:01
Client ID: INDC3GA
Sample Info: 0E05010-CAL3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL3 Client Smp Id : INDC3GA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 05-MAY-2010 18:01 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : INDC3GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44			34922					
2.42			150					
7.70	7.64	7.78	10312	511077	Tetrachloro-m-Xylene	0.020000	515550	
9.22	9.15	9.29	15538	776175	alpha-BHC	0.020000	776900	
10.03	9.96	10.10	14653	725352	gamma-BHC (Lindane)	0.020000	732650	
10.27	10.20	10.34	5902	291225	beta-BHC	0.020000	295050	
10.70	10.63	10.77	13553	670705	delta-BHC	0.020000	677650	
11.21	11.14	11.28	13839	686315	Heptachlor	0.020000	691950	
11.92	11.85	11.99	12669	627382	Aldrin	0.020000	633450	
13.33	13.26	13.40	11776	585410	Heptachlor Epoxide	0.020000	588800	
13.61	13.54	13.68	11644	579092	gamma-Chlordane	0.020000	582200	
13.91	13.84	13.98	10133	502118	alpha-Chlordane	0.020000	506650	
14.10	14.03	14.17	20814	515756	4,4'-DDE	0.040000	520350	
14.21	14.14	14.28	11035	536925	Endosulfan I	0.020000	551700	
14.74	14.67	14.81	20652	512808	Dieldrin	0.040000	516300	
15.02			521					
15.24	15.17	15.31	17921	445172	Endrin	0.040000	448000	
15.40	15.33	15.47	15313	381109	4,4'-DDD	0.040000	382800	
15.73	15.66	15.80	17765	440985	Endosulfan II	0.040000	444100	
15.99	15.92	16.06	17274	433059	4,4'-DDT	0.040000	431825	
16.53			121					
16.64	16.57	16.71	13250	325624	Endrin Aldehyde	0.040000	331250	
17.02	16.95	17.09	37752	188501	Methoxychlor	0.200000	188755	
17.19			196					
17.58	17.50	17.64	14930	370954	Endosulfan sulfate	0.040000	373250	
17.84			216					
18.16	18.09	18.23	17730	439015	Endrin Ketone	0.040000	443225	
20.24	20.17	20.31	14790	372436	Decachlorobiphenyl	0.040000	369750	

Data File: /chem/tracegc84.i/g100505.b/007g0E05010-CAL4.d

Date : 05-MAY-2010 18:30

Client ID: INDC4GA

Sample Info: 0E05010-CAL4

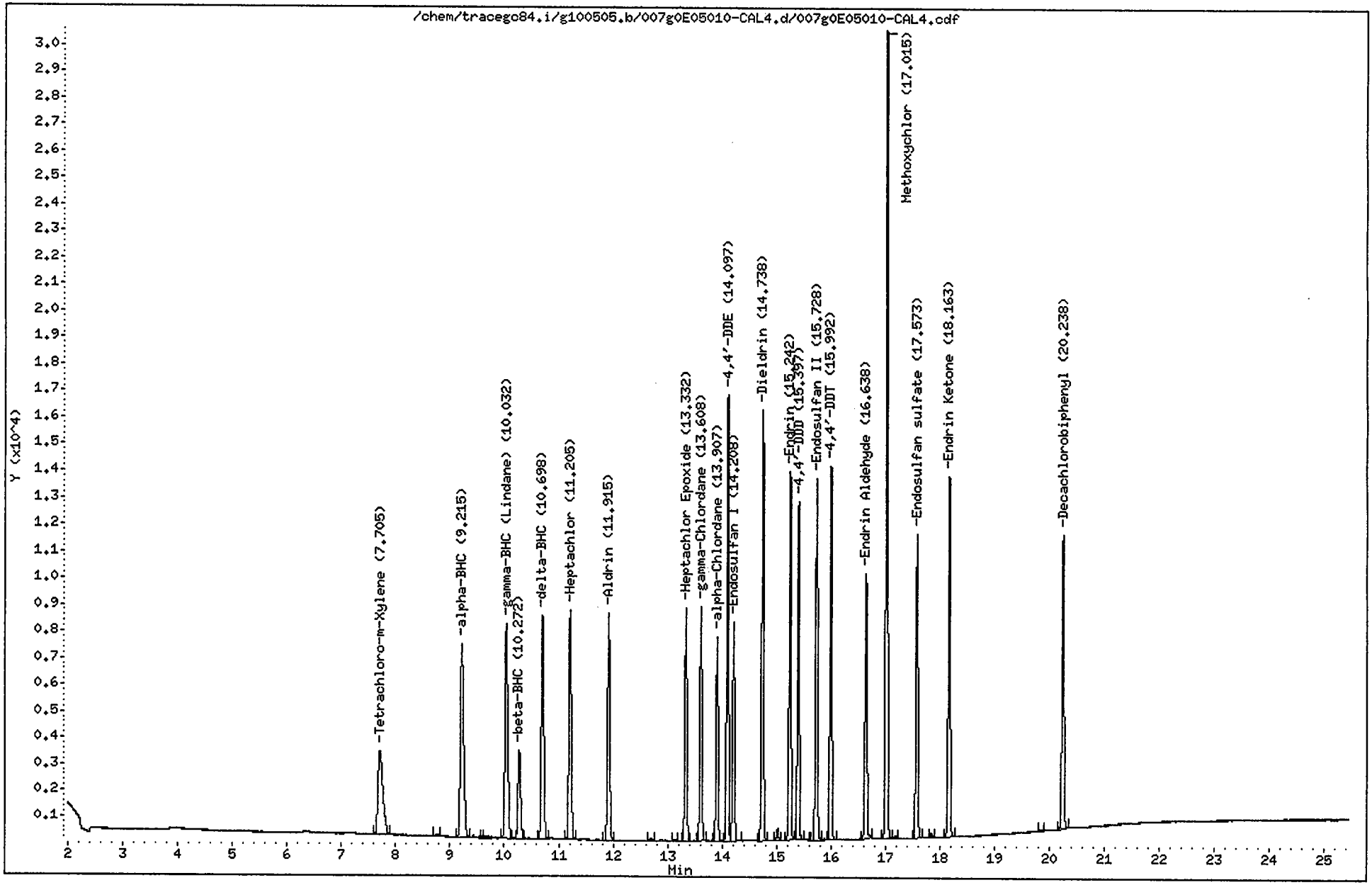
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



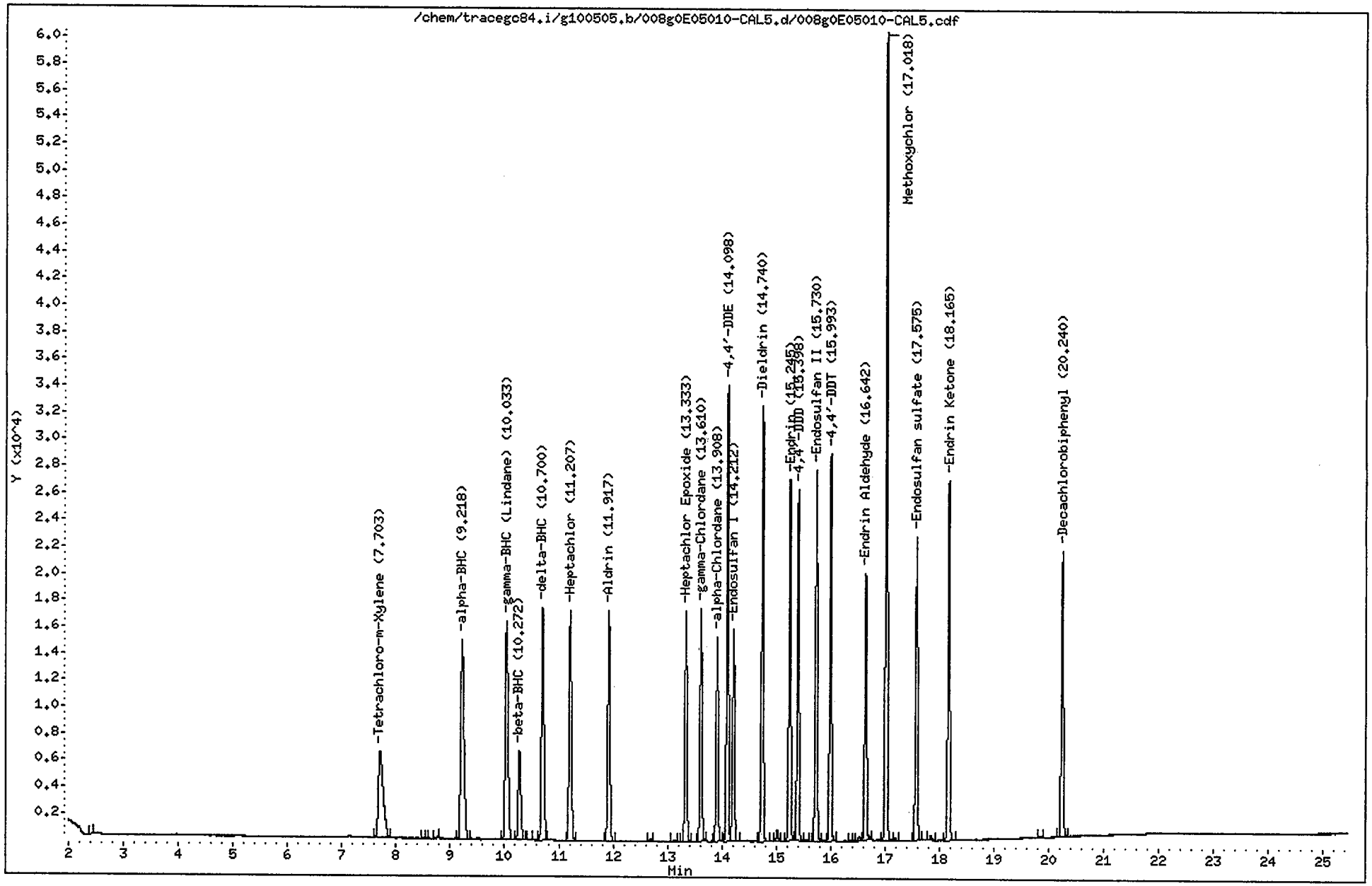
CompuChem

Lab Smp Id : 0E05010-CAL4 Client Smp Id : INDC4GA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 05-MAY-2010 18:30 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : INDC4GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44			36505					
7.70	7.64	7.78	19875	511077	Tetrachloro-m-Xylene	0.040000	496875	
8.74			181					
9.22	9.15	9.29	30236	776175	alpha-BHC	0.040000	755900	
9.60			169					
10.03	9.96	10.10	28306	725352	gamma-BHC (Lindane)	0.040000	707625	
10.27	10.20	10.34	11204	291225	beta-BHC	0.040000	280075	
10.70	10.63	10.77	26305	670705	delta-BHC	0.040000	657625	
11.20	11.14	11.28	26173	686315	Heptachlor	0.040000	654300	
11.92	11.85	11.99	24023	627382	Aldrin	0.040000	600550	
12.69			272					
13.13			151					
13.33	13.26	13.40	22031	585410	Heptachlor Epoxide	0.040000	550750	
13.61	13.54	13.68	21905	579092	gamma-Chlordane	0.040000	547600	
13.91	13.84	13.98	19090	502118	alpha-Chlordane	0.040000	477250	
14.10	14.03	14.17	39380	515756	4,4'-DDE	0.080000	492250	
14.21	14.14	14.28	20589	536925	Endosulfan I	0.040000	514700	
14.74	14.67	14.81	39219	512808	Dieldrin	0.080000	490225	
15.02			1006					
15.24	15.17	15.31	33779	445172	Endrin	0.080000	422225	
15.40	15.33	15.47	29424	381109	4,4'-DDD	0.080000	367787	
15.53			126					
15.73	15.66	15.80	33733	440985	Endosulfan II	0.080000	421663	
15.87			159					
15.99	15.92	16.06	33076	433059	4,4'-DDT	0.080000	413437	
16.64	16.57	16.71	25076	325624	Endrin Aldehyde	0.080000	313437	
17.02	16.95	17.09	70714	188501	Methoxychlor	0.400000	176785	
17.18			280					
17.57	17.50	17.64	28326	370954	Endosulfan sulfate	0.080000	354063	
17.84			459					
18.16	18.09	18.23	33723	439015	Endrin Ketone	0.080000	421525	
19.85			126					
20.24	20.17	20.31	27692	372436	Decachlorobiphenyl	0.080000	346150	

Data File: /chem/tracegc84.i/g100505.b/008g0E05010-CAL5.d
Date : 05-MAY-2010 18:59
Client ID: INDC5GA
Sample Info: 0E05010-CAL5
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

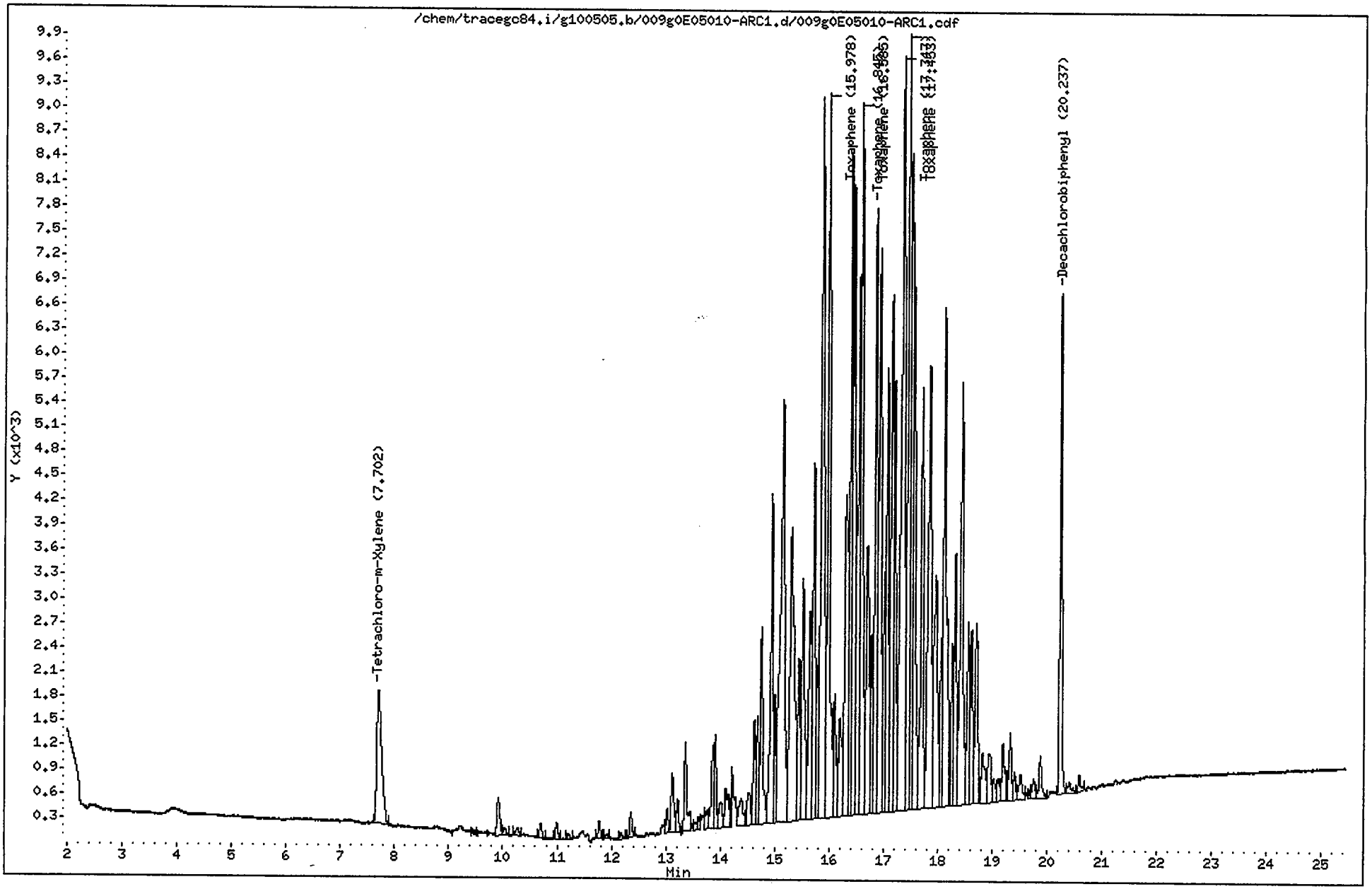
Lab Smp Id : 0E05010-CAL5 Client Smp Id : INDC5GA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 05-MAY-2010 18:59 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : INDC5GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44			39588					
2.44			169					
7.70	7.64	7.78	39477	511077	Tetrachloro-m-Xylene	0.080000	493450	
8.49			182					
8.56			159					
8.76			253					
9.22	9.15	9.29	61782	776175	alpha-BHC	0.080000	772275	
10.03	9.96	10.10	57336	725352	gamma-BHC (Lindane)	0.080000	716687	
10.27	10.20	10.34	22200	291225	beta-BHC	0.080000	277500	
10.46			165					
10.70	10.63	10.77	53524	670705	delta-BHC	0.080000	669050	
11.21	11.14	11.28	51803	686315	Heptachlor	0.080000	647525	
11.92	11.85	11.99	47658	627382	Aldrin	0.080000	595713	
12.69			525					
13.13			272					
13.33	13.26	13.40	43312	585410	Heptachlor Epoxide	0.080000	541400	
13.61	13.54	13.68	43173	579092	gamma-Chlordane	0.080000	539663	
13.91	13.84	13.98	37527	502118	alpha-Chlordane	0.080000	469087	
14.10	14.03	14.17	78813	515756	4,4'-DDE	0.160000	492581	
14.21	14.14	14.28	40299	536925	Endosulfan I	0.080000	503725	
14.74	14.67	14.81	78627	512808	Dieldrin	0.160000	491413	
15.02			2074					
15.24	15.17	15.31	67191	445172	Endrin	0.160000	419937	
15.40	15.33	15.47	59298	381109	4,4'-DDD	0.160000	370606	
15.54			150					
15.73	15.66	15.80	66882	440985	Endosulfan II	0.160000	418013	
15.88			299					
15.99	15.92	16.06	66574	433059	4,4'-DDT	0.160000	416081	
16.37			133					
16.53			797					
16.64	16.57	16.71	49349	325624	Endrin Aldehyde	0.160000	308431	
17.02	16.95	17.09	138702	188501	Methoxychlor	0.800000	173376	
17.19			534					
17.58	17.50	17.64	56282	370954	Endosulfan sulfate	0.160000	351756	
17.85			879					
18.16	18.09	18.23	67364	439015	Endrin Ketone	0.160000	421025	
19.84			196					
20.24	20.17	20.31	53357	372436	Decachlorobiphenyl	0.160000	333475	

Data File: /chem/tracegc84.i/g100505.b/009g0E05010-ARC1.d
Date : 05-MAY-2010 19:28
Client ID: TOXAPH3GA
Sample Info: 0E05010-ARC1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC1 Client Smp Id : TOXAPH3GA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 05-MAY-2010 19:28 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : TOXAPH3GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44		37771					
7.70	7.64 7.78	10194	511077	Tetrachloro-m-Xylene	0.020000	515550	
9.91		1708					
10.04		334					
10.27		367					
10.70		595					
10.99		651					
11.21		191					
11.78		595					
11.91		148					
12.17		233					
12.36		879					
13.03		799					
13.12		2454					
13.22		1077					
13.36		3534					
13.52		357					
13.61		354					
13.75		904					
13.86		3009					
13.90		3056					
14.00		1372					
14.10		2247					
14.22		1032					
14.38		1823					
14.51		1753					
14.62		3798					
14.68		3470					
14.75		8019					
14.94		12573					
14.99		3792					
15.14		29131					
15.30		21856					
15.44		6018					
15.51		11585					
15.64		9235					
15.71		15024					
15.78		4454					
15.86		36982					
15.98	15.91 16.05	28065	14032	Toxaphene Peak 1	2.000000	14033	25
16.10		5285					
16.20		5082					

pm 5/7/10

5/6/10

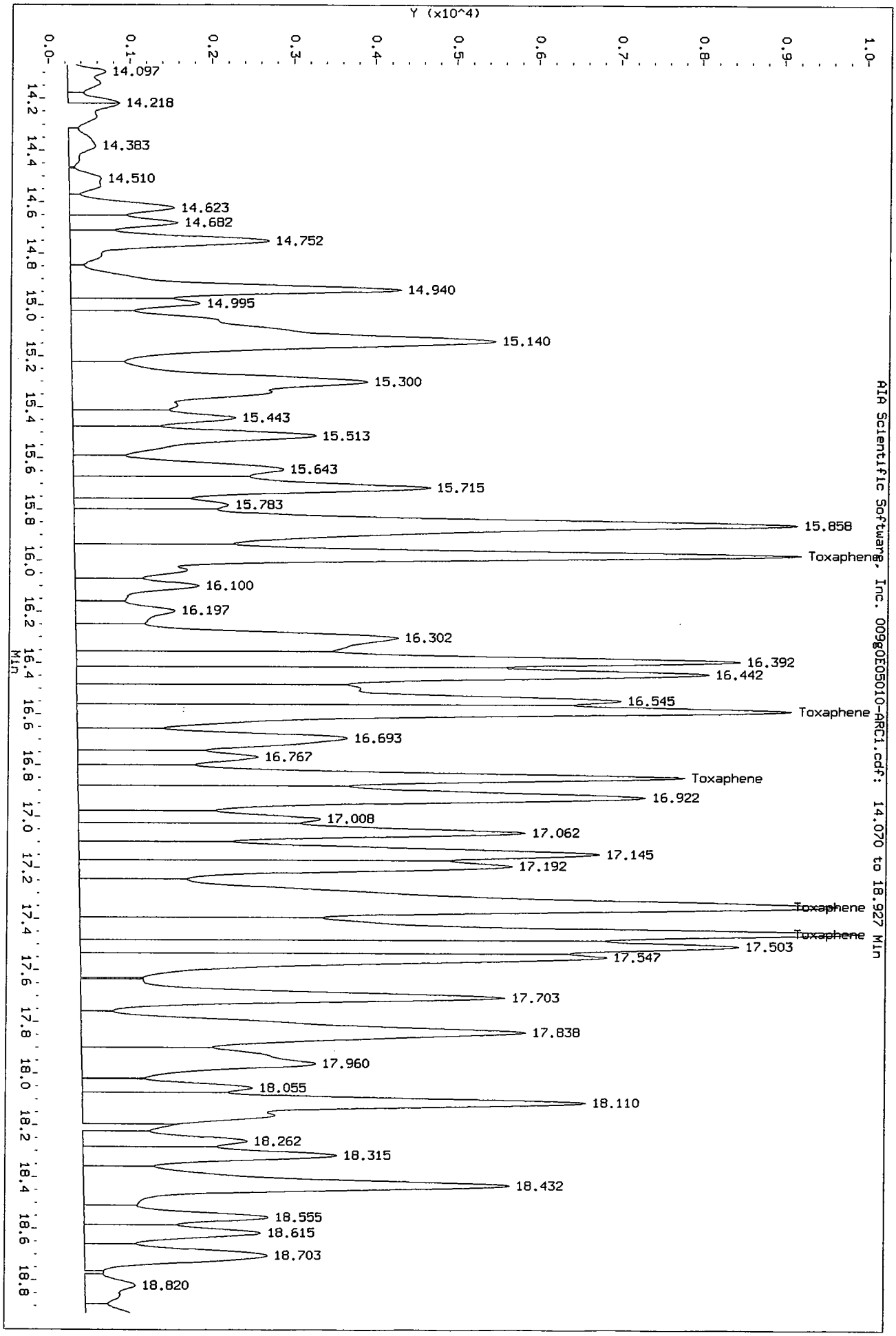
CompuChem

Lab Smp Id : 0E05010-ARC1 Client Smp Id : TOXAPH3GA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 05-MAY-2010 19:28 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : TOXAPH3GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.30		18083					
16.39		21962					
16.44		23822					
16.55		22181					
16.58	16.51 16.65	27184	13592	Toxaphene Peak 2	2.000000	13591	2Y
16.69		12521					
16.77		6400					
16.84	16.77 16.91	21686	10842	Toxaphene Peak 3	2.000000	10843	
16.92		25881					
17.01		7418					
17.06		16531					
17.14		20261					
17.19		16013					
17.35	17.28 17.42	43132	21566	Toxaphene Peak 4	2.000000	21565	
17.45	17.38 17.52	32089	16044	Toxaphene Peak 5	2.000000	16045	
17.50		22505					
17.55		19609					
17.70		16417					
17.84		23889					
17.96		14028					
18.05		5083					
18.11		23445					
18.26		5659					
18.32		9598					
18.43		19639					
18.55		6765					
18.61		6507					
18.70		8069					
18.82		2893					
18.95		2861					
19.02		862					
19.11		1142					
19.19		2591					
19.33		2455					
19.40		933					
19.51		1325					
19.68		259					
19.75		774					
19.87		1843					
20.24	20.17 20.31	15819	372436	Decachlorobiphenyl	0.040000	369750	
20.41		559					
20.58		583					

pw 5/7/10

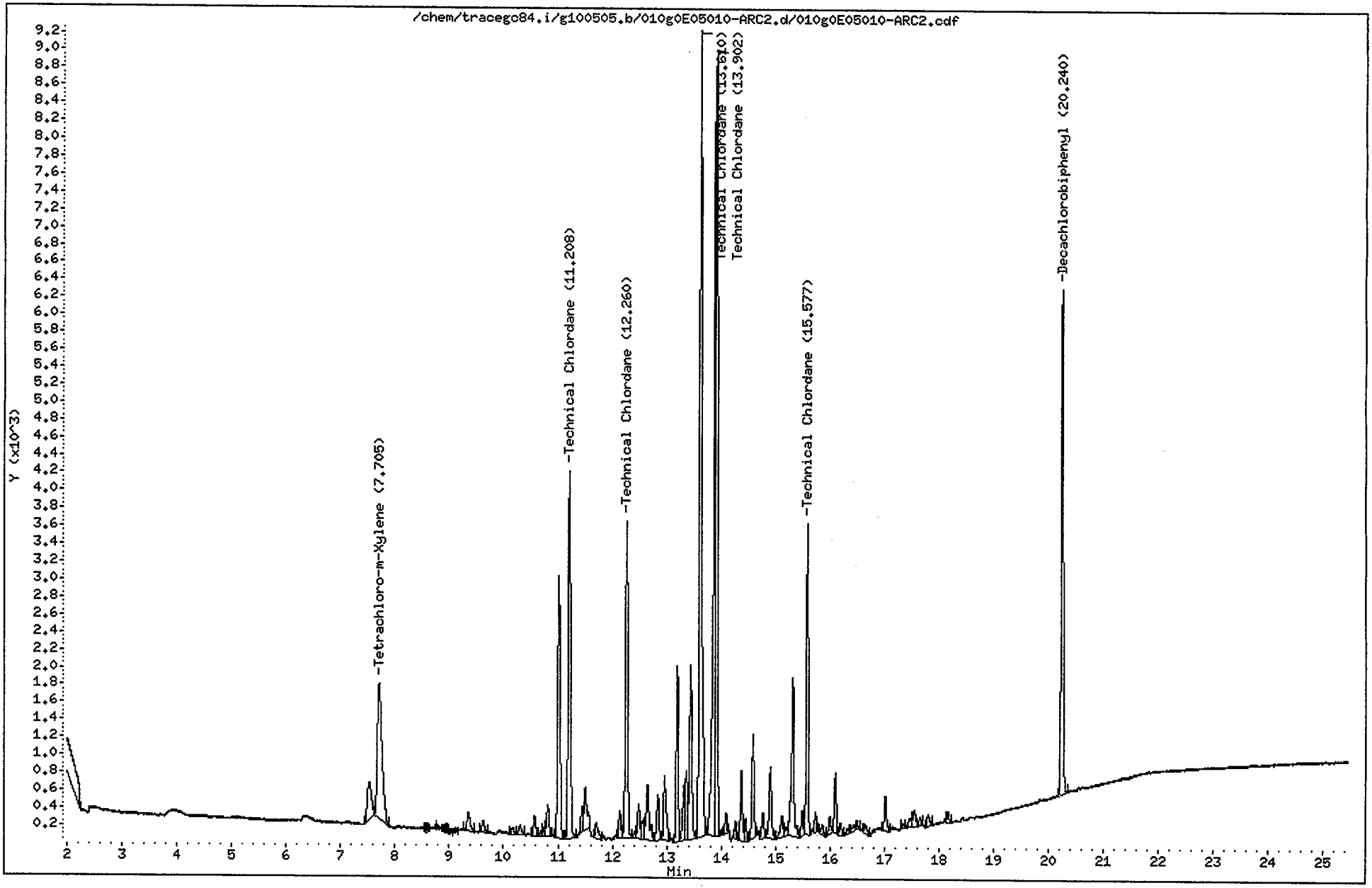
CT 6/10


Data File: /chem/tracegc84.i/g100505.b/009gOE05010-ARC1.d/009gOE05010-ARC1.cdf
Injection Date: 05-MAY-2010 19:28
Instrument: tracegc84.i
Client Sample ID: TOXAPH3GA
Y (x10^4)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
14.097
14.218
14.383
14.510
14.623
14.682
14.752
14.940
14.995
15.140
15.300
15.443
15.513
15.643
15.715
15.783
15.858
Toxaphene
16.100
16.197
16.302
16.392
16.442
16.545
Toxaphene
16.693
16.767
Toxaphene
16.922
17.008
17.062
17.145
17.192
Toxaphene
Toxaphene
17.503
17.547
17.703
17.838
17.960
18.055
18.110
18.262
18.315
18.432
18.555
18.615
18.703
18.820
14.2
14.4
14.6
14.8
15.0
15.2
15.4
15.6
15.8
16.0
16.2
16.4
16.6
16.8
17.0
17.2
17.4
17.6
17.8
18.0
18.2
18.4
18.6
18.8
Min
AIA Scientific Software, Inc. 009gOE05010-ARC1.cdf: 14.070 to 18.927 Min

Data File: /chem/tracegc84.i/g100505.b/010g0E05010-ARC2.d
Date : 05-MAY-2010 19:57
Client ID: CHLOR03GA
Sample Info: 0E05010-ARC2
Volume Injected (uL): 1.0
Column phase: olpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC2 Client Smp Id : CHLORO3GA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 05-MAY-2010 19:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : CHLORO3GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.33			461					
1.44			60587					
7.52			2286					
7.70	7.64	7.78	9271	511077	Tetrachloro-m-Xylene	0.020000	515550	
8.58			191					
8.97			217					
9.36			883					
9.62			494					
10.17			274					
10.30			330					
10.57			721					
10.70			189					
10.76			231					
10.81			1116					
11.02			9092					
11.21	11.14	11.28	12650	31622	TechnicalChlordane Peak 1	0.400000	31623	
11.44			798					
11.50			1810					
11.71			679					
12.14			875					
12.26	12.19	12.33	10488	26218	TechnicalChlordane Peak 2	0.400000	26217	
12.42			192					
12.48			1221					
12.56			545					
12.65			2601					
12.84			1540					
12.96			2484					
13.19			5036					
13.32			1367					
13.36			2663					
13.44			5956					
13.61	13.54	13.68	27239	68098	TechnicalChlordane Peak 3	0.400000	68097	
13.88			21759					
13.90	13.83	13.97	20685	51710	TechnicalChlordane Peak 4	0.400000	51710	
14.00			140					
14.09			548					
14.27			397					
14.37			2100					
14.45			606					
14.58			3123					
14.77			809					
14.90			2569					

CompuChem

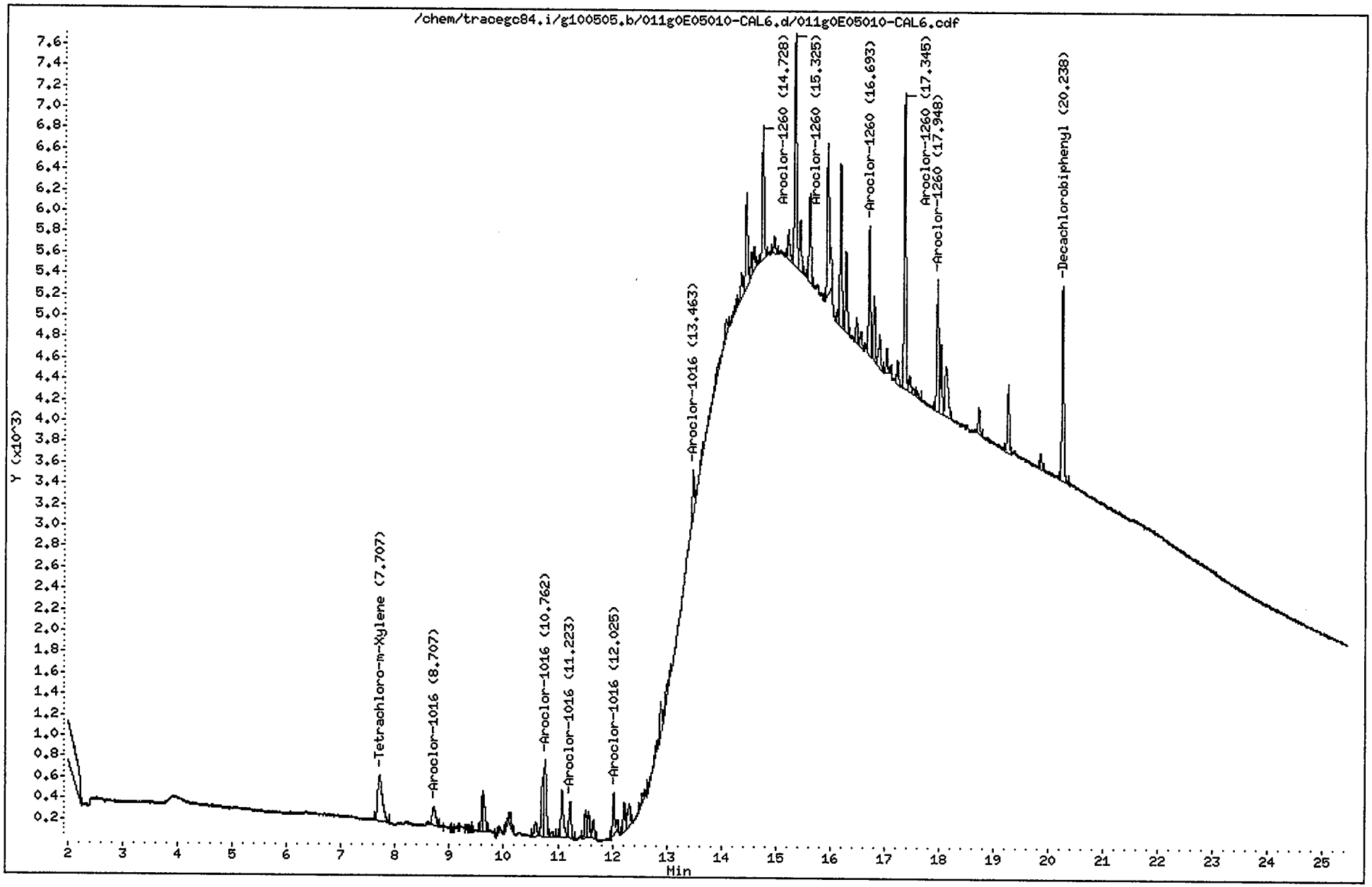
Lab Smp Id : 0E05010-ARC2 Client Smp Id : CHLORO3GA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 05-MAY-2010 19:57 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : CHLORO3GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.12		886					
15.20		249					
15.31		5869					
15.49		642					
15.58	15.51 15.65	8554	21385	TechnicalChlordane Peak 5	0.400000	21385	
15.73		515					
15.86		277					
15.99		488					
16.10		1685					
16.19		371					
16.32		173					
16.44		223					
16.50		188					
16.64		364					
17.02		1068					
17.36		134					
17.47		394					
17.55		634					
17.65		213					
17.80		396					
18.16		339					
20.24	20.17 20.31	14486	372436	Decachlorobiphenyl	0.040000	369750	

Data File: /chem/tracegc84.i/g100505.b/011g0E05010-CAL6.d
Date : 05-MAY-2010 20:26
Client ID: AR16601GA
Sample Info: 0E05010-CAL6
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL6 Client Smp Id : AR16601GA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 05-MAY-2010 20:26 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16601GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.32			453					
1.44			63646					
7.71	7.64	7.78	2686	511077	Tetrachloro-m-Xylene	0.005000	526400	
8.71	8.64	8.78	838	7539	Aroclor-1016 Peak 1	0.100000	8380.000	
9.37			156					
9.60			403					
9.62			1166					
10.07			161					
10.12			320					
10.60			500					
10.71			1393					
10.76	10.69	10.83	2381	22169	Aroclor-1016 Peak 2	0.100000	23810	
10.89			146					
11.07			1465					
11.22	11.15	11.29	990	9219	Aroclor-1016 Peak 3	0.100000	9900.000	
11.51			677					
11.57			648					
11.65			464					
12.02	11.95	12.09	1146	10369	Aroclor-1016 Peak 4	0.100000	11460	
12.22			682					
12.31			785					
12.55			228					
12.80			514					
12.88			661					
12.99			302					
13.06			139					
13.46	13.39	13.53	888	8754	Aroclor-1016 Peak 5	0.100000	8870.000	M 2
13.63			55					
13.92			353					
14.06			315					
14.22			5					
14.27			95					
14.34			722					
14.43			2260					
14.52			592					
14.56			544					
14.73	14.66	14.80	3012	23830	Aroclor-1260 Peak 1	0.100000	30110	
14.94			435					
15.20			793					
15.32	15.25	15.39	5865	47256	Aroclor-1260 Peak 2	0.100000	58650	
15.42			1240					
15.60			2187					

pw 5/7/16

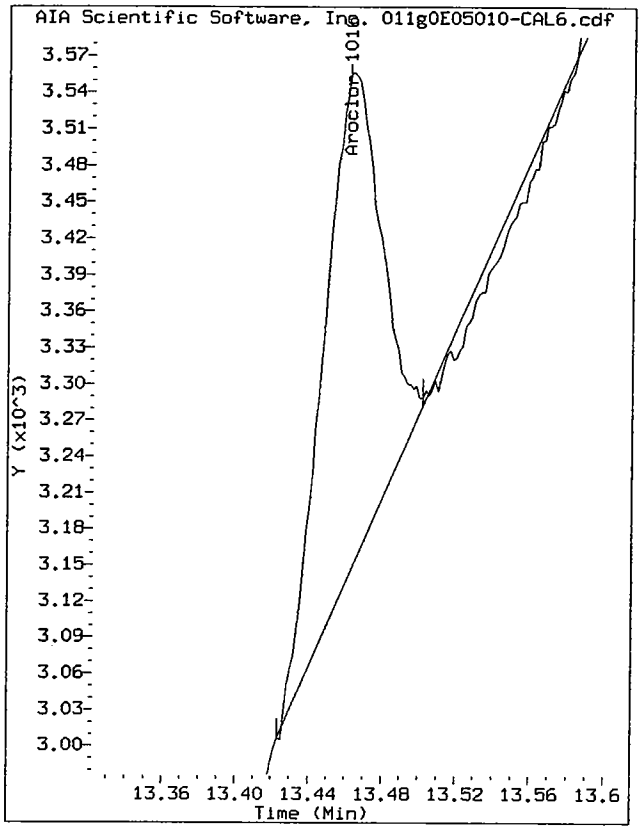
CT/LC

CompuChem

Lab Smp Id : 0E05010-CAL6 Client Smp Id : AR16601GA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 05-MAY-2010 20:26 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16601GA

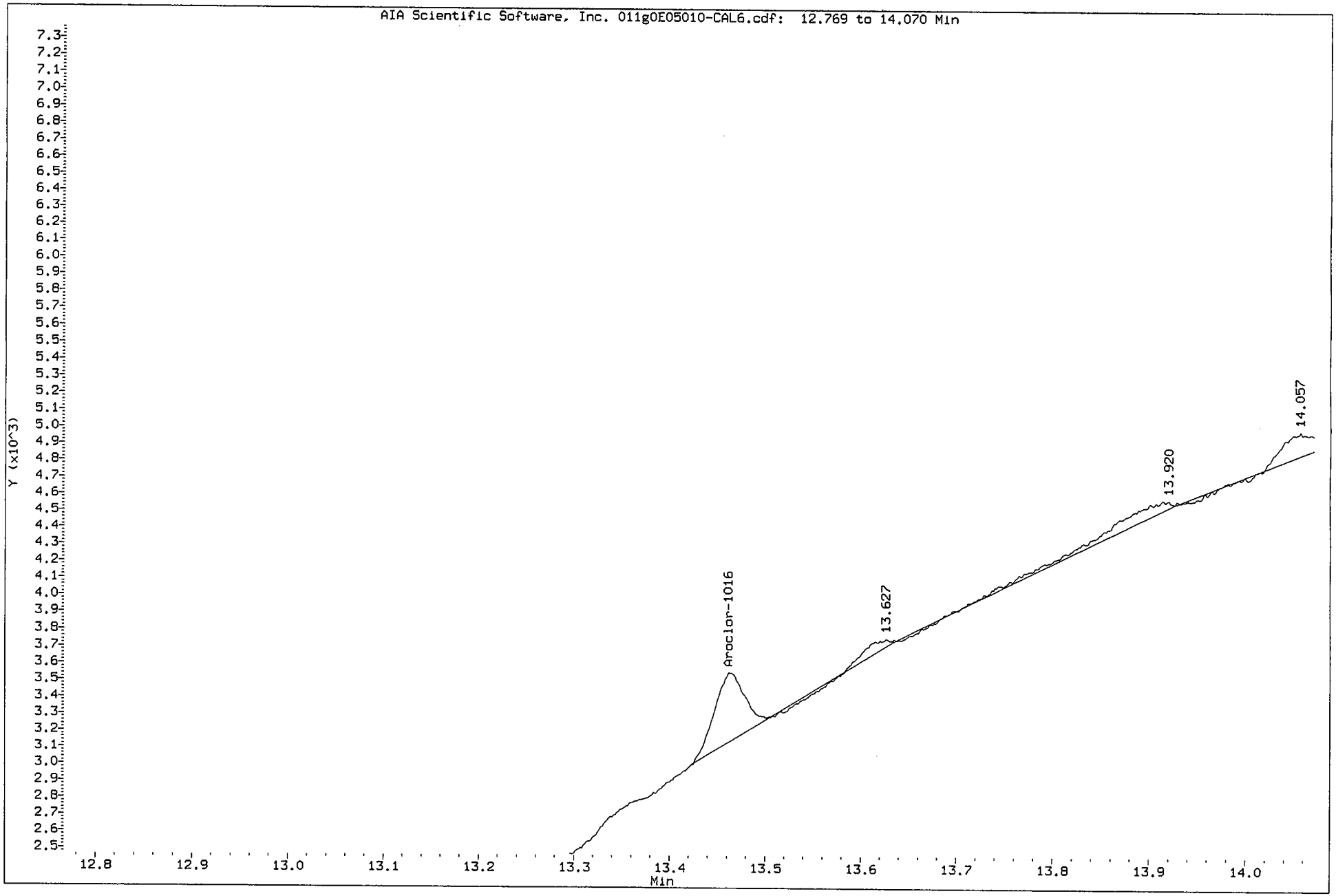
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.93		4291					
16.09		227					
16.16		3626					
16.27		1783					
16.45		561					
16.54		407					
16.69	16.62 16.76	2781	24838	Aroclor-1260 Peak 3	0.100000	27800	
16.79		1373					
16.89		887					
17.02		561					
17.21		536					
17.34	17.27 17.41	6725	57780	Aroclor-1260 Peak 4	0.100000	67240	
17.44		584					
17.57		183					
17.95	17.88 18.02	3030	26453	Aroclor-1260 Peak 5	0.100000	30290	
18.02		1530					
18.11		1938					
18.71		596					
19.25		1617					
19.84		362					
20.24	20.17 20.31	4584	372436	Decachlorobiphenyl	0.010000	416500	

Manually Integrated Peaks



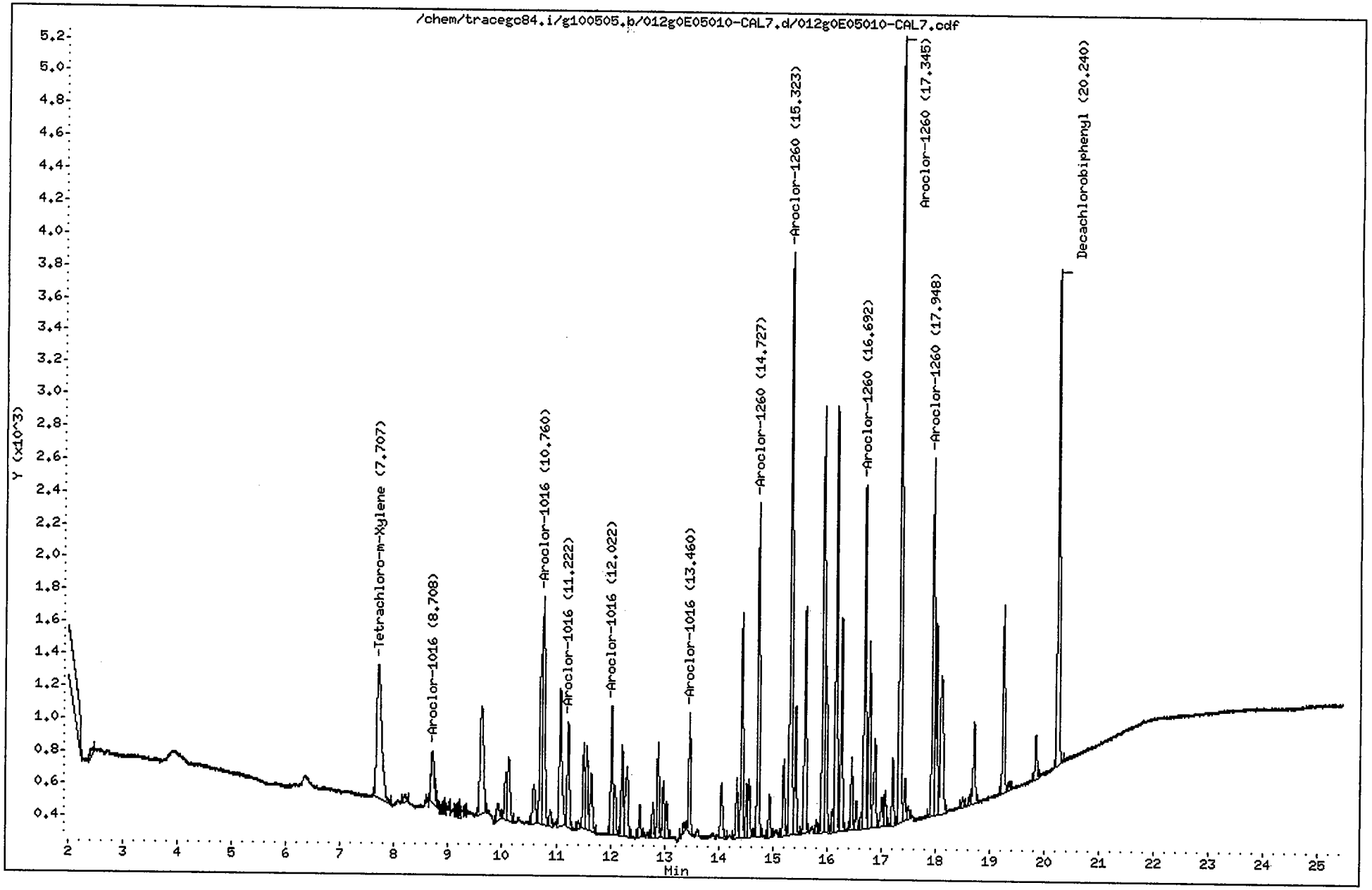
Start: 13.42 Stop: 13.50

Data File: /chem/tracegc84.i/g100505.b/011g0E05010-CAL6.d/011g0E05010-CAL6.cdf
Injection Date: 05-MAY-2010 20:26
Instrument: tracegc84.i
Client Sample ID: AR16601GA



Data File: /chem/tracegc84.i/g100505.b/012g0E05010-CAL7.d
Date : 05-MAY-2010 20:55
Client ID: AR16602GA
Sample Info: 0E05010-CAL7
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL7 Client Smp Id : AR16602GA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 05-MAY-2010 20:55 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16602GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.31			695					
1.41			65772					
2.41			164					
7.71	7.64	7.78	5186	511077	Tetrachloro-m-Xylene	0.010000	523100	
8.21			154					
8.71	8.64	8.78	1384	7539	Aroclor-1016 Peak 1	0.200000	6915.000	
8.93			135					
9.20			124					
9.62			3014					
9.93			370					
10.07			828					
10.12			1350					
10.59			892					
10.71			2532					
10.76	10.69	10.83	4489	22169	Aroclor-1016 Peak 2	0.200000	22445	
10.89			253					
11.07			2783					
11.22	11.15	11.29	1808	9219	Aroclor-1016 Peak 3	0.200000	9040.000	
11.40			125					
11.51			1363					
11.56			1335					
11.65			1063					
12.02	11.95	12.09	2103	10369	Aroclor-1016 Peak 4	0.200000	10515	
12.09			751					
12.22			1415					
12.31			1640					
12.55			474					
12.79			532					
12.88			1423					
12.98			858					
13.04			544					
13.35			148					
13.46	13.39	13.53	1682	8754	Aroclor-1016 Peak 5	0.200000	8410.000	
14.05			990					
14.33			845					
14.43			3266					
14.52			741					
14.56			839					
14.73	14.66	14.80	4794	23830	Aroclor-1260 Peak 1	0.200000	23965	
14.94			657					
15.20			1148					
15.32	15.25	15.39	9530	47256	Aroclor-1260 Peak 2	0.200000	47645	

CompuChem

Lab Smp Id : 0E05010-CAL7 Client Smp Id : AR16602GA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 05-MAY-2010 20:55 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16602GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.42		1916					
15.60		3660					
15.81		177					
15.93		6791					
15.98		2490					
16.10		305					
16.16		6216					
16.27		3118					
16.46		1012					
16.55		433					
16.64		203					
16.69	16.62 16.76	5160	24838	Aroclor-1260 Peak 3	0.200000	25795	
16.78		2702					
16.89		1606					
17.01		519					
17.07		528					
17.21		951					
17.34	17.27 17.41	11676	57780	Aroclor-1260 Peak 4	0.200000	58375	
17.44		615					
17.51		184					
17.95	17.88 18.02	5434	26453	Aroclor-1260 Peak 5	0.200000	27165	
18.01		2797					
18.10		3383					
18.50		141					
18.64		131					
18.71		1280					
19.25		2800					
19.36		146					
19.84		660					
20.24	20.17 20.31	7736	372436	Decachlorobiphenyl	0.020000	396300	

Data File: /chem/tracegc84.i/g100505.b/013g0E05010-CAL8.d

Date : 05-MAY-2010 21:24

Client ID: AR16603GA

Sample Info: 0E05010-CAL8

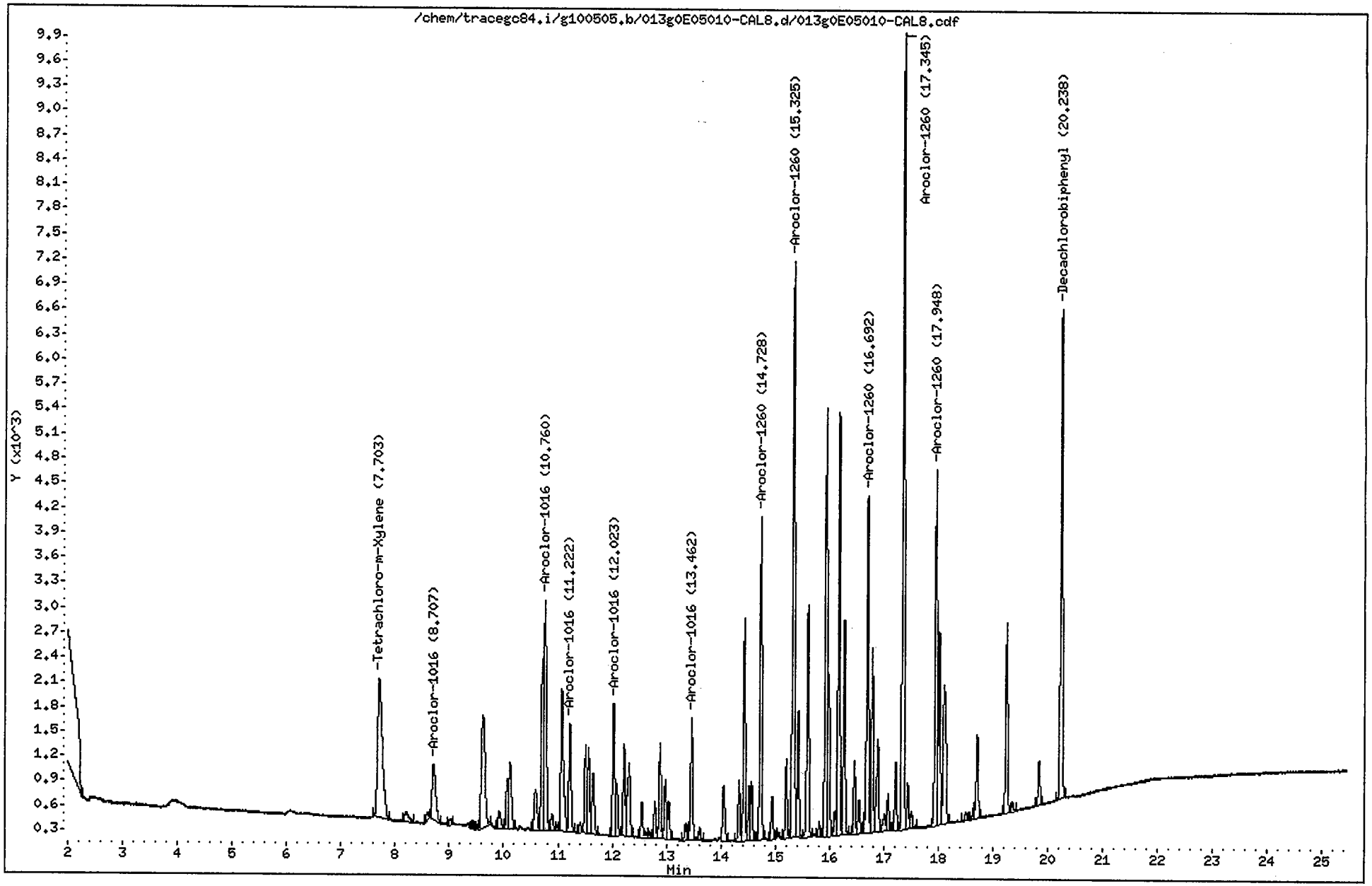
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL8 Client Smp Id : AR16603GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 05-MAY-2010 21:24 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16603GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44			261869					
7.70	7.64	7.78	10322	511077	Tetrachloro-m-Xylene	0.020000	515550	
8.20			639					
8.60			328					
8.71	8.64	8.78	3113	7780	Aroclor-1016 Peak 1	0.400000	7780.000	
9.02			208					
9.47			120					
9.62			6526					
9.93			784					
10.07			1656					
10.12			2765					
10.59			1881					
10.71			5024					
10.76	10.69	10.83	9135	22835	Aroclor-1016 Peak 2	0.400000	22835	
10.89			571					
10.98			148					
11.07			5872					
11.22	11.15	11.29	3768	9420	Aroclor-1016 Peak 3	0.400000	9420.000	
11.41			300					
11.51			2690					
11.56			2880					
11.65			2310					
12.02	11.95	12.09	4265	10660	Aroclor-1016 Peak 4	0.400000	10660	
12.09			1536					
12.22			2822					
12.31			3260					
12.55			1226					
12.69			191					
12.79			1124					
12.88			2838					
12.98			1835					
13.04			1154					
13.35			505					
13.40			270					
13.46	13.39	13.53	3764	9410	Aroclor-1016 Peak 5	0.400000	9410.000	
13.61			345					
14.05			1972					
14.34			1709					
14.43			6457					
14.52			1536					
14.56			1661					
14.73	14.66	14.80	9413	23532	Aroclor-1260 Peak 1	0.400000	23533	

5/6/10

CompuChem

Lab Smp Id : 0E05010-CAL8 Client Smp Id : AR16603GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 05-MAY-2010 21:24 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16603GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.94		1267					
15.08		139					
15.20		2194					
15.32	15.25 15.39	18460	46148	Aroclor-1260 Peak 2	0.400000	46147	
15.42		3672					
15.60		7276					
15.81		403					
15.93		13453					
15.98		4635					
16.10		650					
16.16		12200					
16.27		6144					
16.46		2064					
16.54		1024					
16.63		331					
16.69	16.62 16.76	10153	25380	Aroclor-1260 Peak 3	0.400000	25380	
16.78		5433					
16.89		3274					
17.02		688					
17.07		1038					
17.21		1914					
17.34	17.27 17.41	23147	57868	Aroclor-1260 Peak 4	0.400000	57867	
17.44		1330					
17.50		521					
17.95	17.88 18.02	10662	26655	Aroclor-1260 Peak 5	0.400000	26655	
18.01		5638					
18.10		6583					
18.50		275					
18.64		329					
18.71		2607					
19.25		5599					
19.36		296					
19.84		1315					
20.24	20.17 20.31	14717	372436	Decachlorobiphenyl	0.040000	369750	

Data File: /chem/tracegc84.i/g100505.b/014g0E05010-CAL9.d

Date : 05-MAY-2010 21:53

Client ID: AR16604GA

Instrument: tracegc84.i

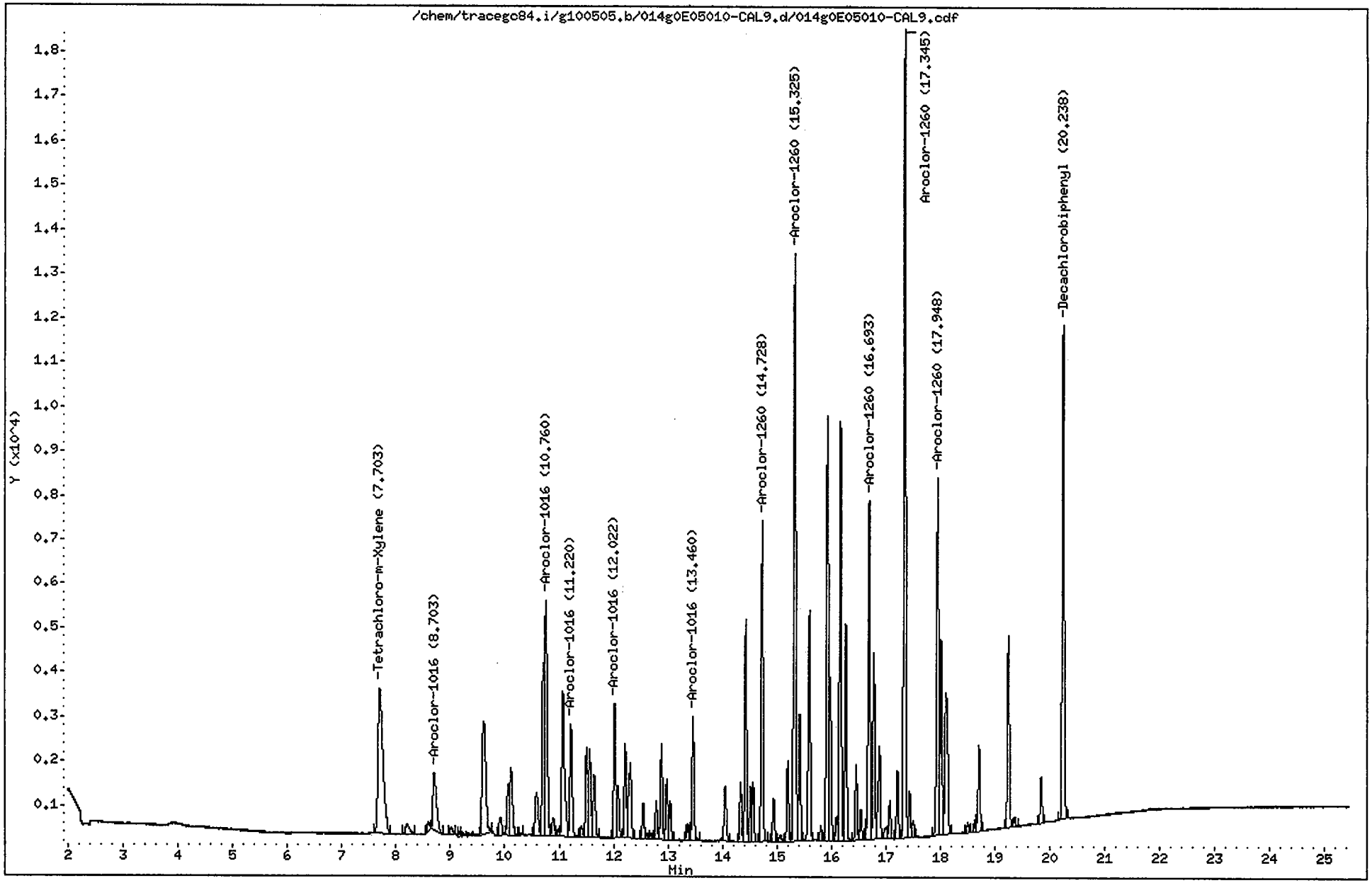
Sample Info: 0E05010-CAL9

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL9 Client Smp Id : AR16604GA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 05-MAY-2010 21:53 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16604GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.37			125					
1.41			4253					
7.70	7.64	7.78	20545	511077	Tetrachloro-m-Xylene	0.040000	496875	
8.20			1174					
8.60			632					
8.70	8.64	8.78	5967	7539	Aroclor-1016 Peak 1	0.800000	7457.500	
9.02			522					
9.16			141					
9.62			11915					
9.92			1464					
10.07			3119					
10.12			5321					
10.30			178					
10.59			3759					
10.71			9970					
10.76	10.69	10.83	17287	22169	Aroclor-1016 Peak 2	0.800000	21607	
10.89			1302					
10.98			395					
11.07			11457					
11.22	11.15	11.29	7400	9219	Aroclor-1016 Peak 3	0.800000	9250.000	
11.41			652					
11.51			5385					
11.56			5480					
11.65			4442					
12.02	11.95	12.09	8038	10369	Aroclor-1016 Peak 4	0.800000	10046	
12.09			3010					
12.22			5399					
12.31			6271					
12.55			2006					
12.62			258					
12.69			275					
12.79			2173					
12.88			5404					
12.98			3545					
13.04			2207					
13.35			912					
13.40			511					
13.46	13.39	13.53	7194	8754	Aroclor-1016 Peak 5	0.800000	8992.500	
14.05			3629					
14.33			3235					
14.43			12093					
14.52			3014					

CompuChem

Lab Smp Id : 0E05010-CAL9 Client Smp Id : AR16604GA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 05-MAY-2010 21:53 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16604GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.56		3118					
14.73	14.66 14.80	17493	23830	Aroclor-1260 Peak 1	0.800000	21865	
14.94		2527					
15.07		554					
15.20		4295					
15.32	15.25 15.39	35076	47256	Aroclor-1260 Peak 2	0.800000	43844	
15.42		6958					
15.60		13794					
15.81		766					
15.93		25482					
15.98		8544					
16.10		1272					
16.16		22898					
16.27		11634					
16.45		3896					
16.54		1547					
16.63		524					
16.69	16.62 16.76	18937	24838	Aroclor-1260 Peak 3	0.800000	23670	
16.78		10136					
16.88		6168					
17.01		937					
17.07		2007					
17.21		3662					
17.34	17.27 17.41	43861	57780	Aroclor-1260 Peak 4	0.800000	54825	
17.43		2494					
17.50		852					
17.95	17.88 18.02	20233	26453	Aroclor-1260 Peak 5	0.800000	25290	
18.01		10605					
18.10		12433					
18.50		512					
18.64		590					
18.71		5025					
19.25		10644					
19.36		534					
19.84		2507					
20.24	20.17 20.31	27540	372436	Decachlorobiphenyl	0.080000	346150	

Data File: /chem/tracegc84.i/g100505.b/015g0E05010-CALA.d

Date : 05-MAY-2010 22:22

Client ID: AR16605GA

Instrument: tracegc84.i

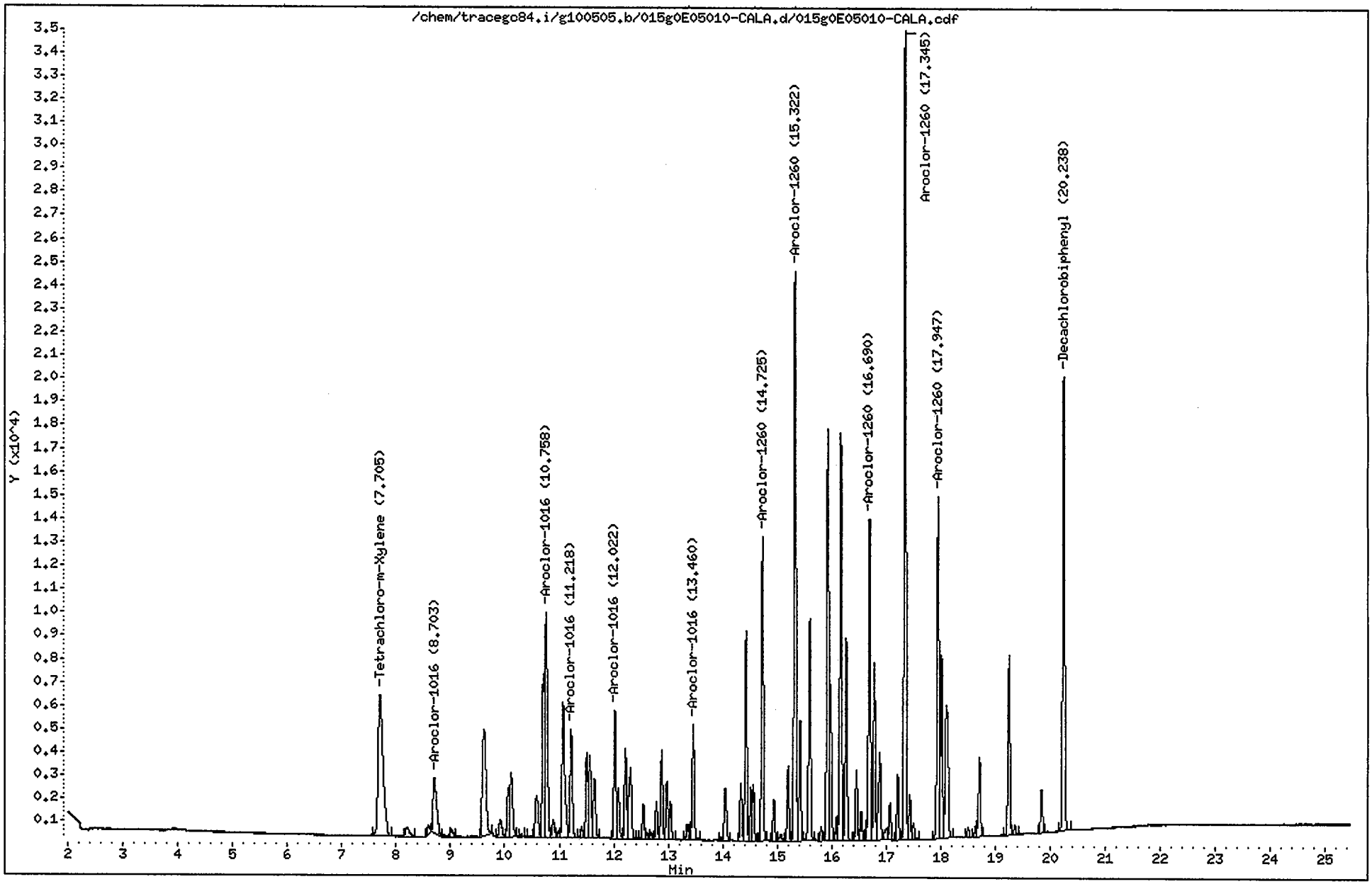
Sample Info: 0E05010-CALA

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CALA Client Smp Id : AR16605GA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 05-MAY-2010 22:22 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16605GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.31			221					
1.43			31447					
7.70	7.64	7.78	38199	511077	Tetrachloro-m-Xylene	0.080000	493450	
8.20			2179					
8.59			1184					
8.70	8.64	8.78	11463	7539	Aroclor-1016 Peak 1	1.600000	7163.750	
9.01			1287					
9.62			21642					
9.92			2801					
10.06			5767					
10.12			9822					
10.30			306					
10.45			222					
10.59			7040					
10.71			17288					
10.76	10.69	10.83	32235	22169	Aroclor-1016 Peak 2	1.600000	20146	
10.89			2379					
10.98			747					
11.07			20899					
11.22	11.15	11.29	13575	9219	Aroclor-1016 Peak 3	1.600000	8484.375	
11.41			1231					
11.51			9731					
11.56			10057					
11.64			8156					
12.02	11.95	12.09	14664	10369	Aroclor-1016 Peak 4	1.600000	9165.000	
12.08			5829					
12.21			10106					
12.31			11739					
12.55			3783					
12.62			593					
12.69			621					
12.79			4057					
12.88			9769					
12.98			6540					
13.04			4013					
13.35			1670					
13.40			905					
13.46	13.39	13.53	12938	8754	Aroclor-1016 Peak 5	1.600000	8085.625	
13.97			296					
14.05			6781					
14.33			5900					
14.42			21770					

CompuChem

Lab Smp Id : 0E05010-CALA Client Smp Id : AR16605GA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 05-MAY-2010 22:22 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR16605GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.52		5330					
14.56		5830					
14.72	14.66 14.80	31487	23830	Aroclor-1260 Peak 1	1.600000	19679	
14.94		4621					
15.07		989					
15.20		7836					
15.32	15.25 15.39	63993	47256	Aroclor-1260 Peak 2	1.600000	39996	
15.42		12619					
15.60		25038					
15.81		1410					
15.93		46081					
15.98		15664					
16.10		2391					
16.16		41685					
16.27		21217					
16.45		7238					
16.54		2995					
16.63		1100					
16.69	16.62 16.76	34471	24838	Aroclor-1260 Peak 3	1.600000	21544	
16.78		18456					
16.88		11422					
16.98		1880					
17.07		3825					
17.21		6690					
17.34	17.27 17.41	80949	57780	Aroclor-1260 Peak 4	1.600000	50593	
17.43		4643					
17.50		1611					
17.95	17.88 18.02	36585	26453	Aroclor-1260 Peak 5	1.600000	22865	
18.01		19084					
18.10		22495					
18.50		957					
18.64		1057					
18.71		9011					
19.24		19079					
19.36		1023					
19.84		4550					
20.24	20.17 20.31	49085	372436	Decachlorobiphenyl	0.160000	333475	

Data File: /chem/tracegc84.i/g100505.b/016g0E05010-ARC3.d

Page 1

Date : 05-MAY-2010 22:50

Client ID: AR12213GA

Instrument: tracegc84.i

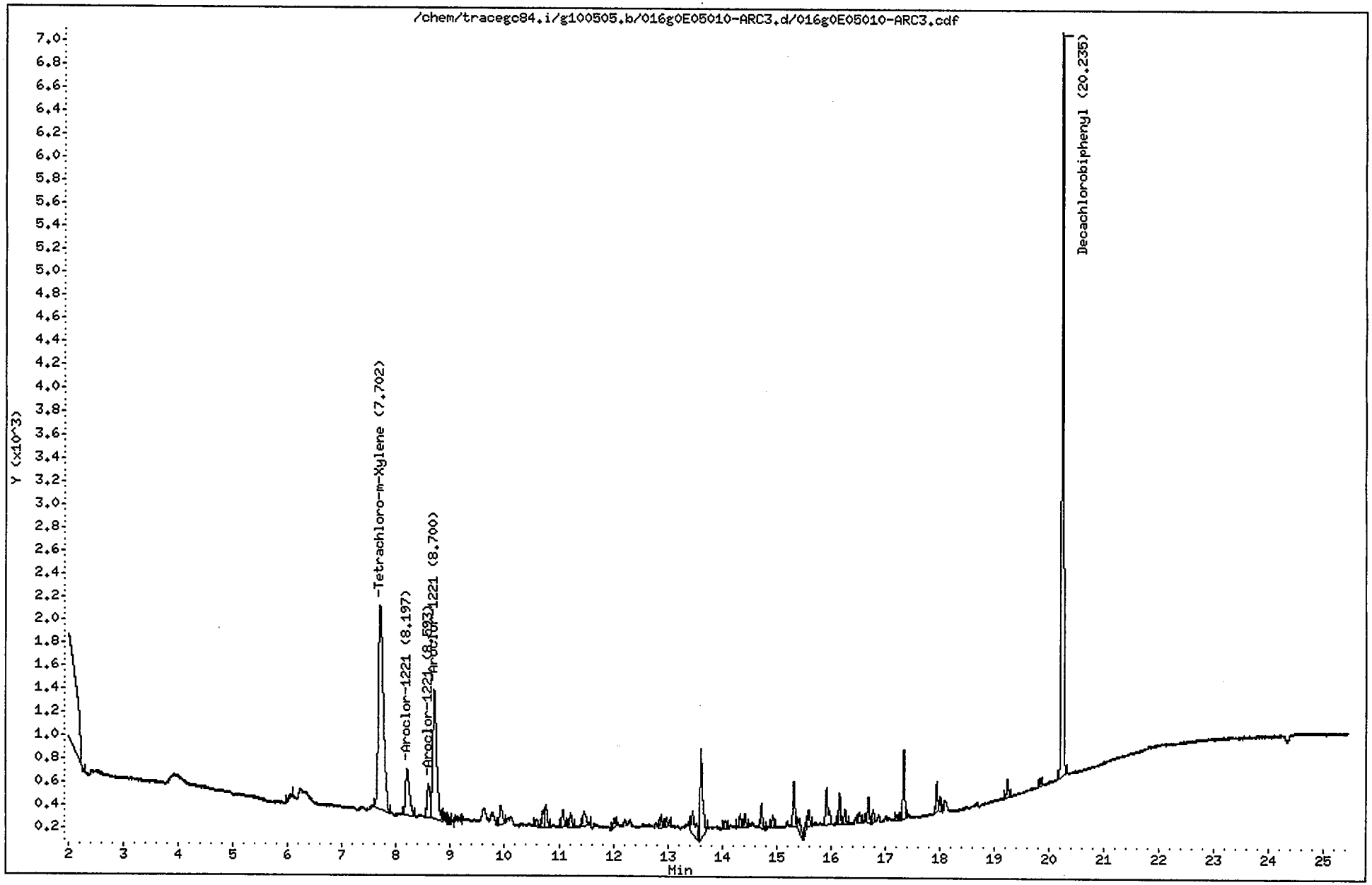
Sample Info: 0E05010-ARC3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC3 Client Smp Id : AR12213GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 05-MAY-2010 22:50 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR12213GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.05			196					
1.43			128032					
6.06			141					
7.70	7.64	7.78	11102	511077	Tetrachloro-m-Xylene	0.020000	515550	
8.20	8.13	8.27	2101	5250	Aroclor-1221 Peak 2	0.400000	5250.000	
8.59	8.52	8.66	1135	2838	Aroclor-1221 Peak 3	0.400000	2837.500	
8.70	8.63	8.77	5772	14428	Aroclor-1221 Peak 4	0.400000	14427	
9.94			653					
10.58			242					
10.71			379					
10.76			619					
11.07			430					
11.22			350					
11.46			578					
12.02			220					
12.88			254					
12.97			261					
13.46			950					
13.61			2410					
14.05			194					
14.33			298					
14.43			274					
14.72			567					
14.94			252					
15.32			1017					
15.42			409					
15.54			149					
15.60			364					
15.92			1047					
16.16			604					
16.26			318					
16.52			244					
16.68			516					
16.78			269					
17.21			134					
17.34			1391					
17.94			557					
18.01			252					
19.24			396					
19.84			169					
20.24	20.17	20.31	16127	372436	Decachlorobiphenyl	0.040000	369750	

Data File: /chem/tracegc84.i/g100505.b/017g0E05010-ARC4.d

Date : 05-MAY-2010 23:19

Client ID: AR12323GA

Instrument: tracegc84.i

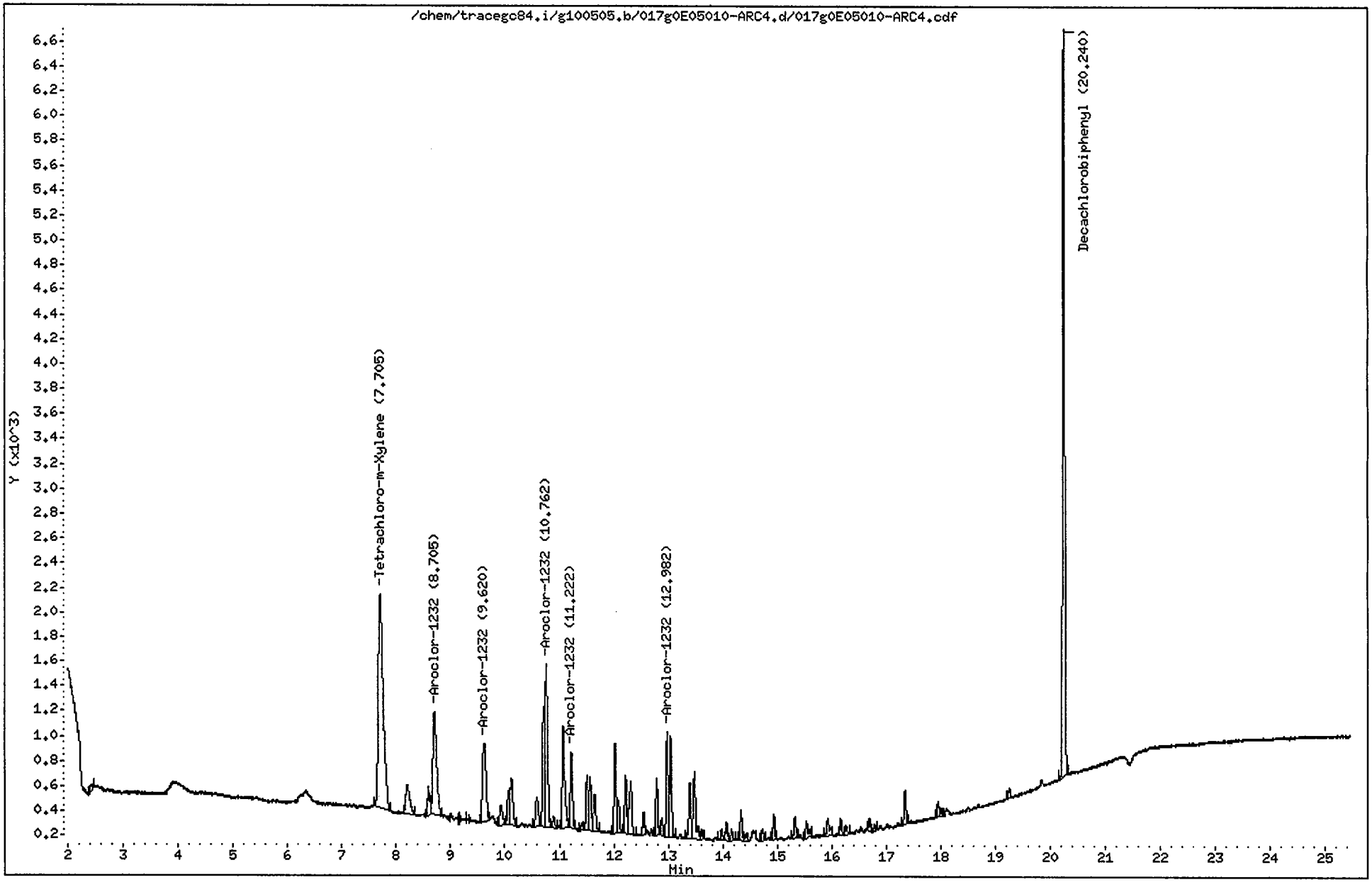
Sample Info: 0E05010-ARC4

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC4 Client Smp Id : AR12323GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 05-MAY-2010 23:19 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR12323GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.32			127					
1.42			35562					
2.42			144					
7.70	7.64	7.78	10772	511077	Tetrachloro-m-Xylene	0.020000	515550	
8.20			1241					
8.59			758					
8.70	8.63	8.77	3888	9720	Aroclor-1232 Peak 1	0.400000	9720.000	
9.62	9.55	9.69	2863	7158	Aroclor-1232 Peak 2	0.400000	7157.500	
9.93			584					
10.07			720					
10.12			1332					
10.59			851					
10.71			2219					
10.76	10.69	10.83	4303	10755	Aroclor-1232 Peak 3	0.400000	10755	
10.89			227					
11.07			2617					
11.22	11.15	11.29	1707	4265	Aroclor-1232 Peak 4	0.400000	4265.000	
11.41			129					
11.51			1143					
11.56			1178					
11.65			942					
12.03			1906					
12.09			680					
12.22			1193					
12.31			1503					
12.54			437					
12.79			1102					
12.88			334					
12.98	12.91	13.05	2105	5260	Aroclor-1232 Peak 5	0.400000	5260.000	
13.04			2053					
13.39			1238					
13.48			1793					
13.62			149					
13.98			214					
14.07			354					
14.17			223					
14.33			582					
14.43			148					
14.73			226					
14.94			469					
15.32			444					
15.54			455					

CompuChem

Lab Smp Id : 0E05010-ARC4 Client Smp Id : AR12323GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 05-MAY-2010 23:19 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR12323GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.93		462					
16.17		285					
16.27		166					
16.69		225					
16.78		126					
17.35		650					
17.95		276					
18.02		133					
19.24		177					
20.24	20.17 20.31	15104	372436	Decachlorobiphenyl	0.040000	369750	

Data File: /chem/tracegc84.i/g100505.b/018g0E05010-ARC5.d

Page 1

Date : 05-MAY-2010 23:48

Client ID: AR12423GA

Instrument: tracegc84.i

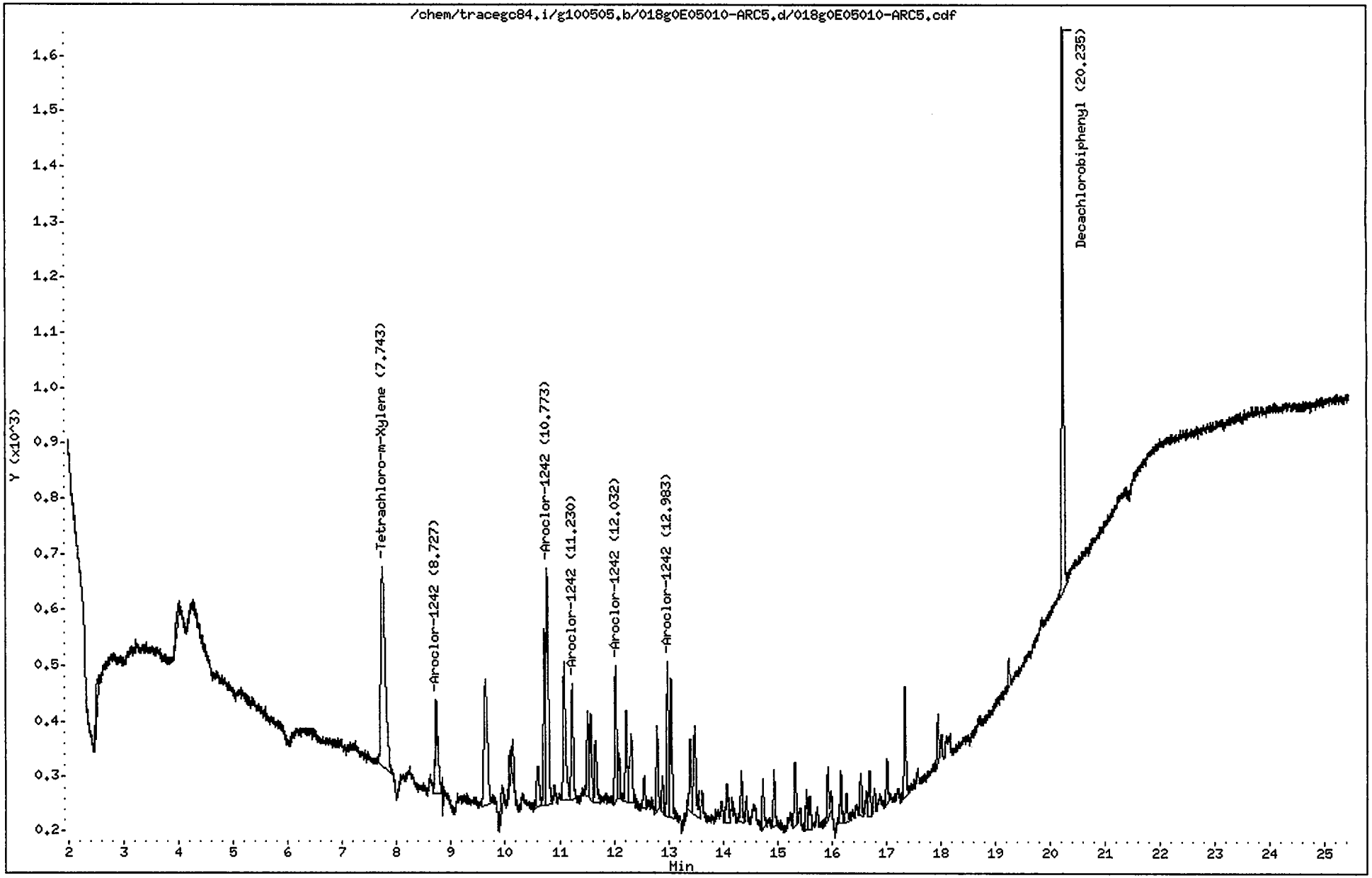
Sample Info: 0E05010-ARC5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC5 Client Smp Id : AR12423GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 05-MAY-2010 23:48 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR12423GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.62			1388					
2.54			145					
4.00			160					
7.74	7.64	7.78	2032	511077	Tetrachloro-m-Xylene	0.020000	515550	
8.73	8.66	8.80	520	1298	Aroclor-1242 Peak 1	0.400000	1297.500	
9.63			1015					
9.94			138					
10.08			120					
10.14			180					
10.60			257					
10.72			756					
10.77	10.70	10.84	1294	3235	Aroclor-1242 Peak 2	0.400000	3235.000	
11.08			785					
11.23	11.16	11.30	559	1395	Aroclor-1242 Peak 3	0.400000	1395.000	
11.52			399					
11.57			389					
11.66			321					
12.03	11.96	12.10	623	1555	Aroclor-1242 Peak 4	0.400000	1555.000	M2
12.09			185					
12.22			410					
12.31			444					
12.55			148					
12.79			380					
12.88			145					
12.98	12.91	13.05	674	1685	Aroclor-1242 Peak 5	0.400000	1685.000	
13.05			668					
13.40			316					
13.48			564					
14.07			214					
14.34			223					
14.73			198					
14.94			237					
15.32			298					
15.54			166					
15.59			154					
15.93			278					
16.16			225					
16.27			144					
16.54			189					
16.70			210					
17.01			189					
17.34			478					

RM 5/7/10

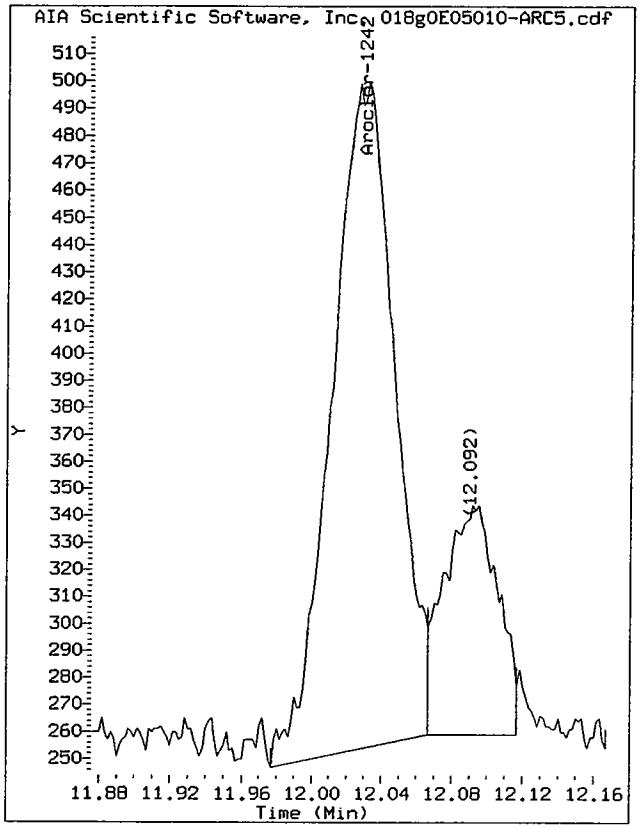
15416

CompuChem

Lab Smp Id : 0E05010-ARC5 Client Smp Id : AR12423GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 05-MAY-2010 23:48 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR12423GA

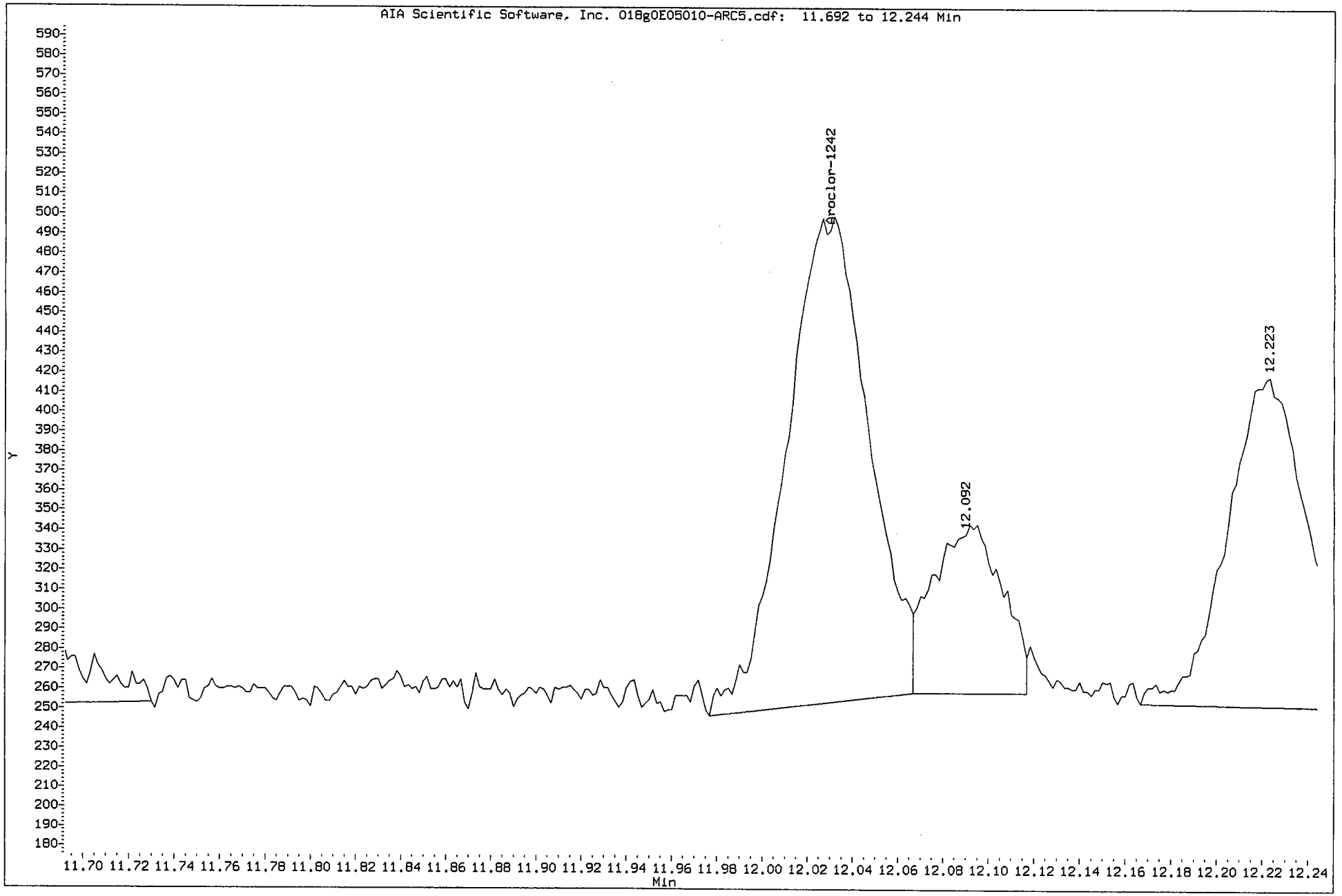
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
17.95		187					
19.24		121					
20.24	20.17 20.31	2468	372436	Decachlorobiphenyl	0.040000	369750	

Manually Integrated Peaks



Start: 11.98 Stop: 12.07

Data File: /chem/tracegc84.i/g100505.b/018g0E05010-ARC5.d/018g0E05010-ARC5.cdf
Injection Date: 05-MAY-2010 23:48
Instrument: tracegc84.i
Client Sample ID: AR12423GA



Data File: /chem/tracegc84.i/g100505.b/019g0E05010-ARC6.d

Date : 06-MAY-2010 00:17

Client ID: AR12483GA

Instrument: tracegc84.i

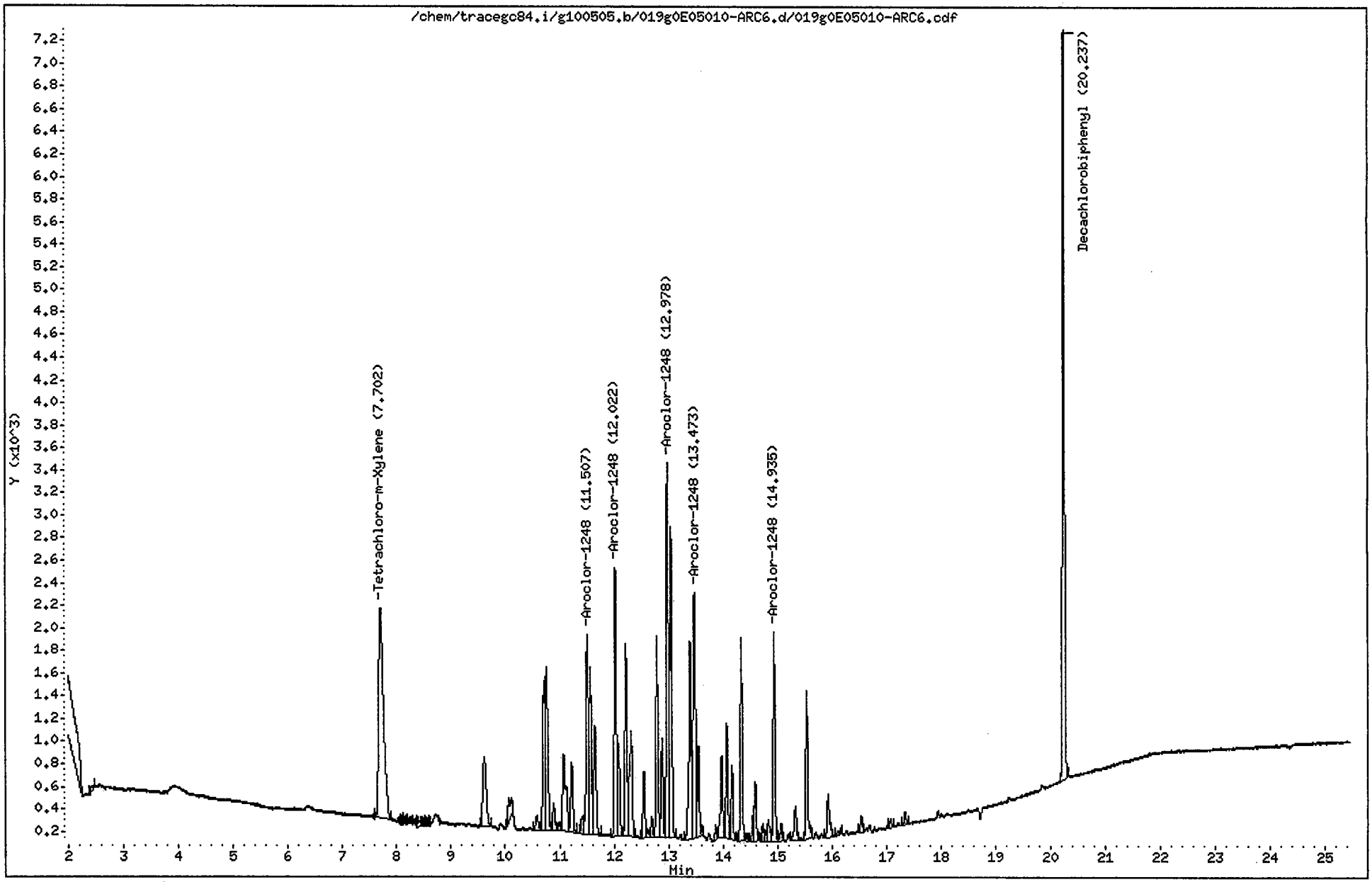
Sample Info: 0E05010-ARC6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC6 Client Smp Id : AR12483GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 06-MAY-2010 00:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR12483GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.43		106859					
2.43		177					
7.70	7.64 7.78	11502	511077	Tetrachloro-m-Xylene	0.020000	515550	
8.38		209					
8.51		166					
9.61		2704					
10.06		873					
10.58		416					
10.71		3521					
10.76		4491					
10.89		653					
10.98		155					
11.07		2956					
11.22		1747					
11.41		391					
11.51	11.44 11.58	4958	12395	Aroclor-1248 Peak 1	0.400000	12395	
11.56		4117					
11.65		3099					
12.02	11.95 12.09	6362	15905	Aroclor-1248 Peak 2	0.400000	15905	
12.09		2048					
12.22		4474					
12.31		3442					
12.55		1468					
12.62		175					
12.69		419					
12.79		4413					
12.88		2228					
12.98	12.91 13.05	8455	21138	Aroclor-1248 Peak 3	0.400000	21137	
13.04		7203					
13.39		5166					
13.47	13.40 13.54	6732	16828	Aroclor-1248 Peak 4	0.400000	16827	
13.54		2019					
13.86		246					
13.97		1909					
14.07		2359					
14.16		1517					
14.33		4269					
14.43		134					
14.56		469					
14.59		1353					
14.73		367					
14.79		175					

CompuChem

Lab Smp Id : 0E05010-ARC6 Client Smp Id : AR12483GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 06-MAY-2010 00:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR12483GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.83		589					
14.94	14.87 15.01	4454	11132	Aroclor-1248 Peak 5	0.400000	11133	
15.07		377					
15.32		920					
15.53		3336					
15.93		1227					
16.11		204					
16.54		372					
17.07		190					
17.34		276					
20.24	20.17 20.31	16512	372436	Decachlorobiphenyl	0.040000	369750	

Data File: /chem/tracegc84.i/g100505.b/020g0E05010-ARC7.d

Date : 06-MAY-2010 00:45

Client ID: AR12543GA

Sample Info: 0E05010-ARC7

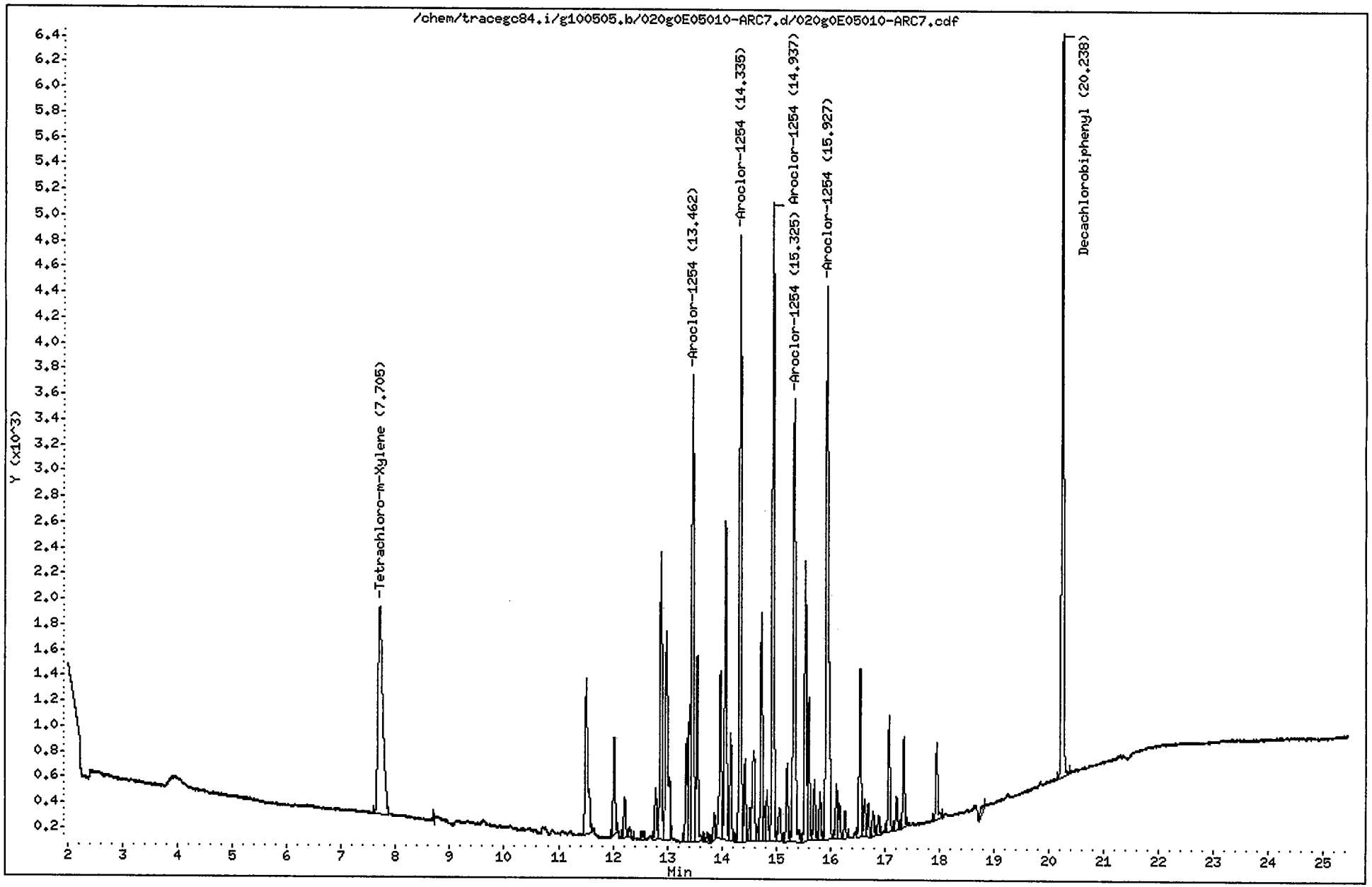
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC7 Client Smp Id : AR12543GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 06-MAY-2010 00:45 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR12543GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.44		34038					
7.70	7.64 7.78	10022	511077	Tetrachloro-m-Xylene	0.020000	515550	
11.51		4157					
12.02		1955					
12.22		791					
12.31		191					
12.55		149					
12.79		1006					
12.88		5660					
12.98		5652					
13.35		1865					
13.40		2385					
13.46	13.39 13.53	9493	23730	Aroclor-1254 Peak 1	0.400000	23730	
13.55		3638					
13.74		188					
13.87		468					
13.97		3393					
14.07		6276					
14.16		1941					
14.34	14.27 14.41	11359	28398	Aroclor-1254 Peak 2	0.400000	28397	
14.43		1489					
14.52		519					
14.59		2505					
14.66		221					
14.73		4209					
14.79		501					
14.83		1056					
14.94	14.87 15.01	12134	30335	Aroclor-1254 Peak 3	0.400000	30335	
15.06		843					
15.20		1420					
15.32	15.25 15.39	10474	26182	Aroclor-1254 Peak 4	0.400000	26183	
15.53		5220					
15.60		2644					
15.70		1107					
15.81		873					
15.93	15.86 16.00	13769	34420	Aroclor-1254 Peak 5	0.400000	34420	
16.11		1027					
16.16		613					
16.26		478					
16.54		3367					
16.63		692					
16.69		525					

CompuChem

Lab Smp Id : 0E05010-ARC7 Client Smp Id : AR12543GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 06-MAY-2010 00:45 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : AR12543GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.78		463					
16.88		353					
17.07		2140					
17.21		615					
17.34		1670					
17.95		1498					
18.82		273					
20.24	20.17 20.31	14694	372436	Decachlorobiphenyl	0.040000	369750	

Data File: /chem/tracegc84.i/g100505.b/021g0E05010-ICV1.d

Date : 06-MAY-2010 01:14

Client ID: PESTCHKGA

Sample Info: 0E05010-ICV1

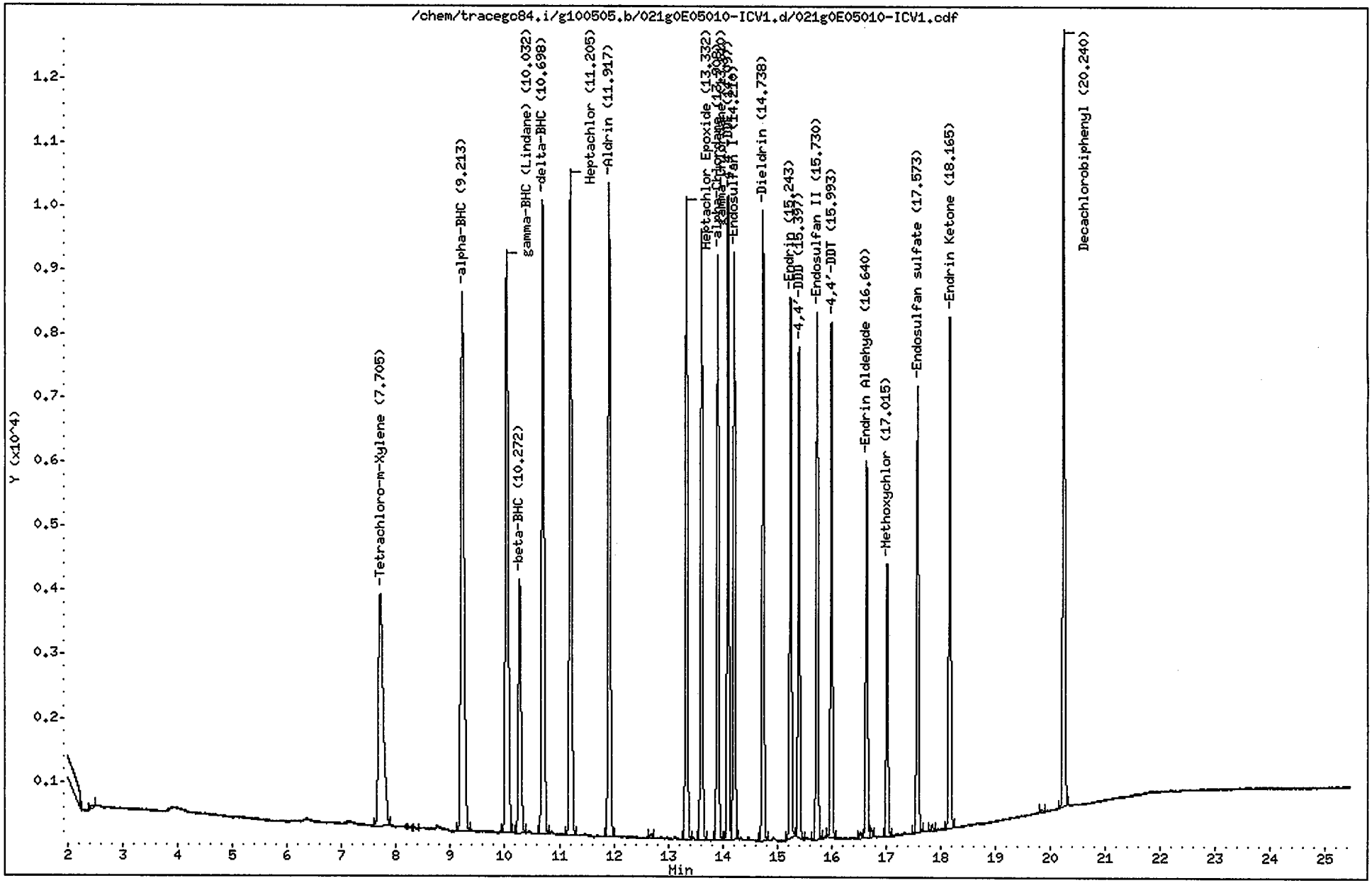
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ICV1 Client Smp Id : PESTCHKGA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 06-MAY-2010 01:14 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : INDAchek
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : PESTCHKGA

RT	AREA
1.32	362
1.43	61827
2.43	228
7.71	22564
9.21	35612
10.03	32211
10.27	13148
10.70	30710
11.21	31570
11.92	28533
12.69	190
13.33	25300
13.61	23587
13.91	22628
14.10	23722
14.21	22846
14.74	23942
15.24	20838
15.40	17781
15.73	20169
15.99	18914
16.53	213
16.64	14549
16.73	323
17.02	9959
17.57	17221
17.85	258
18.16	20327
19.85	151
20.24	30571

Data File: /chem/tracegc84.i/g100505.b/022g0E05010-ICV2.d

Date : 06-MAY-2010 01:43

Client ID: PCBCHKGA

Instrument: tracegc84.i

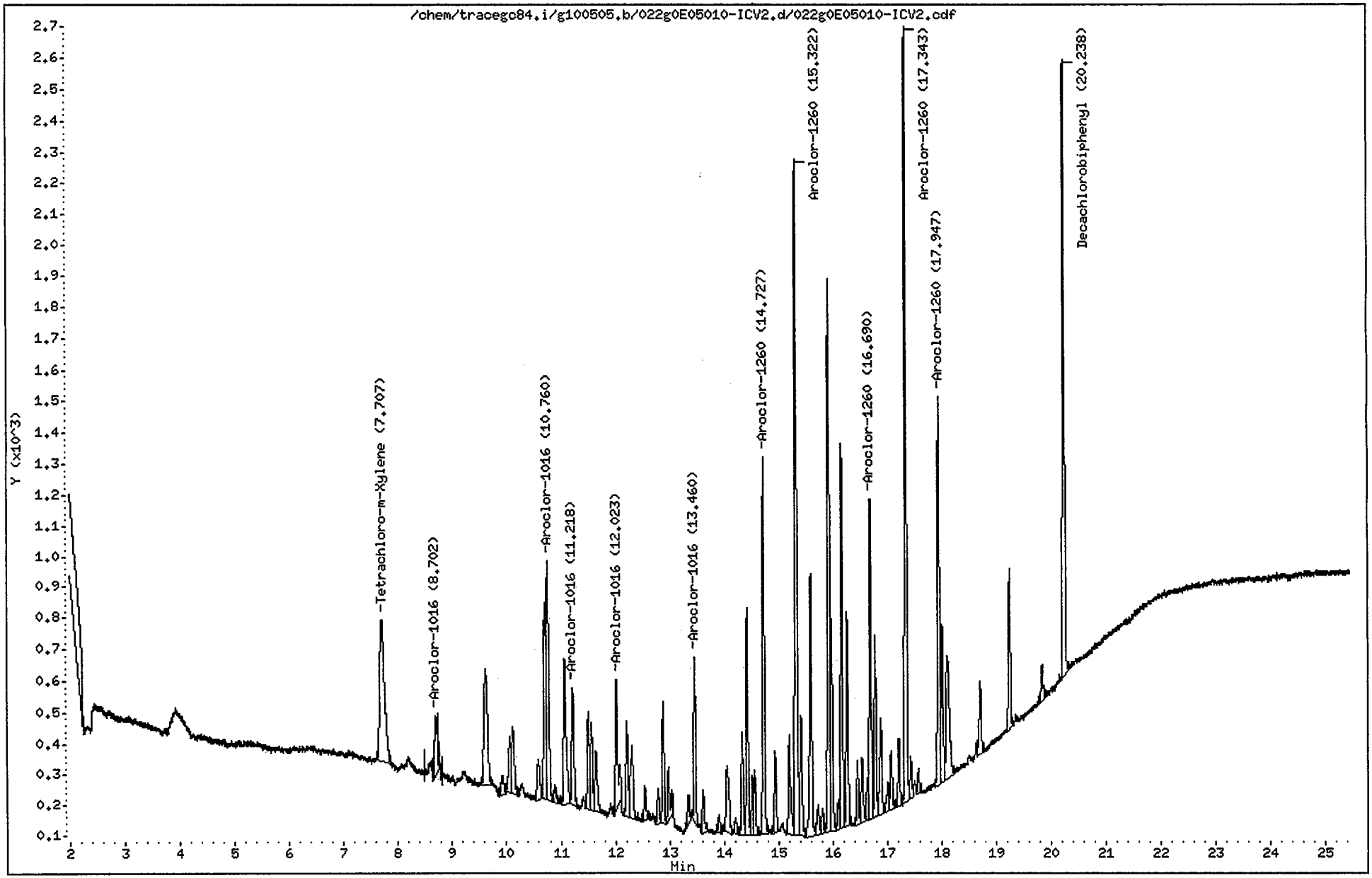
Sample Info: 0E05010-ICV2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ICV2 Client Smp Id : PCBCHKGA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 06-MAY-2010 01:43 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : PCBCHKGA

RT	AREA
1.31	437
1.42	60417
7.71	2748
8.70	723
9.62	1647
9.92	234
10.06	543
10.12	737
10.58	467
10.71	1655
10.76	2393
10.88	161
11.07	1579
11.22	1074
11.50	826
11.56	764
11.65	613
12.02	1304
12.21	784
12.31	893
12.54	271
12.79	281
12.88	936
12.97	572
13.35	248
13.46	1214
13.61	356
13.90	140
14.05	841
14.21	124
14.33	810
14.42	1702
14.52	471
14.56	494
14.73	2877
14.94	653
15.20	880
15.32	5854
15.42	1068
15.60	2310
15.73	296
15.80	191
15.93	4598
15.97	1588
16.10	215

CompuChem

Lab Smp Id : 0E05010-ICV2 Client Smp Id : PCBCHKGA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 06-MAY-2010 01:43 Inst ID :
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/g100505.b/8081A_clpestv6.m
Misc. Info : PCBCHKGA

RT	AREA
16.16	2933
16.26	1594
16.45	485
16.54	563
16.64	298
16.69	2523
16.78	1351
16.89	881
17.02	280
17.07	468
17.21	517
17.34	5915
17.44	292
17.57	162
17.95	3064
18.01	1184
18.10	1704
18.71	587
19.24	1194
19.84	287
20.24	4882

Data File: /chem/tracegc84.i/g100505_2C.b/003g0E05010-PEM1.d

Date : 05-MAY-2010 16:34

Client ID: PEMGA

Instrument: tracegc84.i

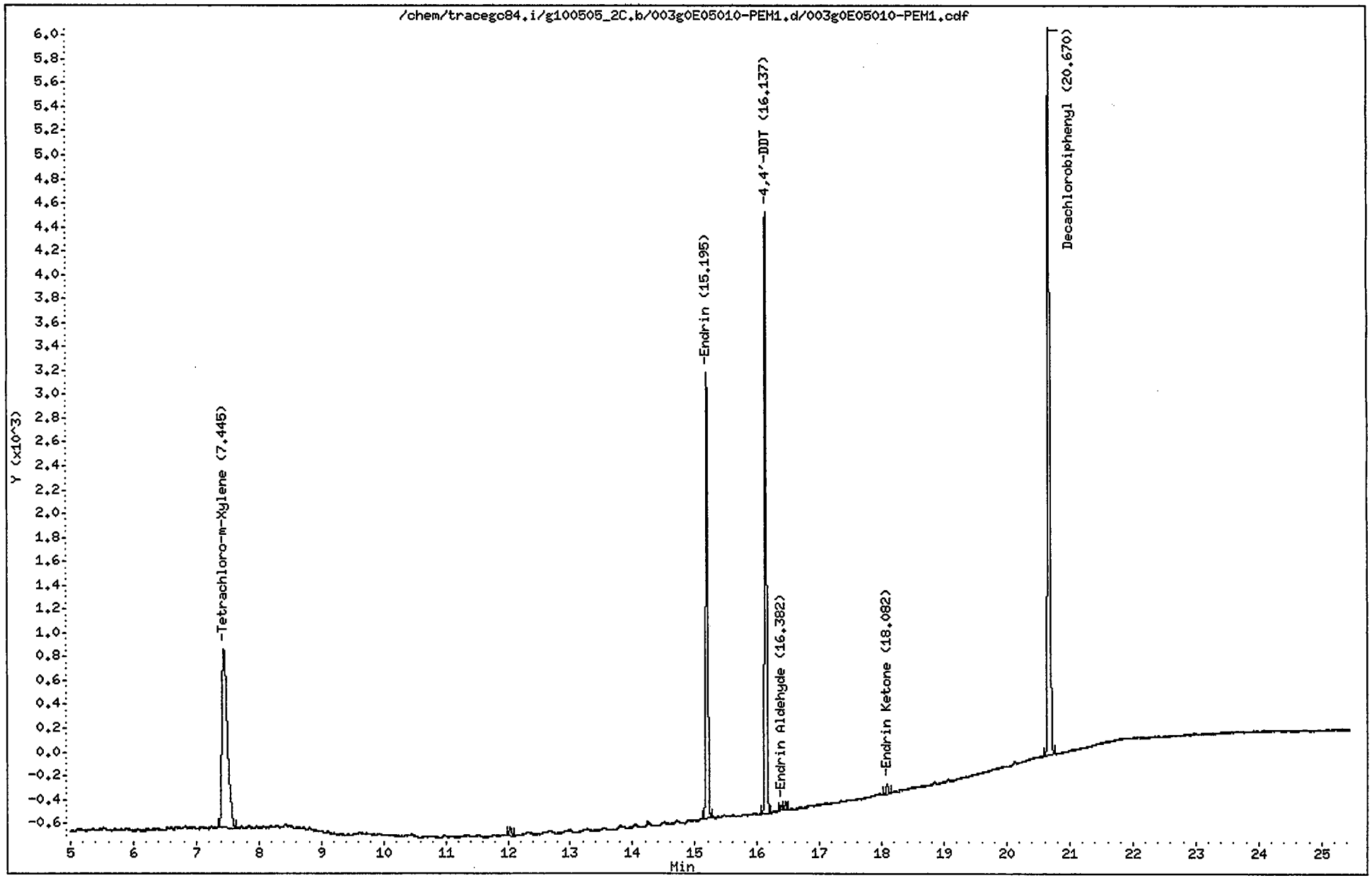
Sample Info: 0E05010-PEM1

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-PEM1 Client Smp Id : PEMGA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 05-MAY-2010 16:34 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : PEMGA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.36			23989								
1.69			21408								
7.44	7.38	7.52	9085	407875	Tetrachloro-m-Xylene	0.022273	0.022273		112.5	43 - 135	
12.04			174								
15.20	15.13	15.27	8283	402899	Endrin	0.020558	0.020558	0.020000			J
16.14	16.07	16.21	10837	365509	4,4'-DDT	0.029650	0.029650	0.020000			
16.38	16.31	16.45	91	284671	Endrin Aldehyde	0.000319	0.000319	0.020000			J
16.46			161								
18.08	18.01	18.15	219	383354	Endrin Ketone	0.000570	0.000570	0.020000			J
20.67	20.60	20.74	15430	358404	Decachlorobiphenyl	0.043051	0.043051		108.7	43 - 144	

Data File: /chem/tracegc84.i/g100505_2C.b/004g0E05010-CAL1.d

Date : 05-MAY-2010 17:03

Client ID: INDC1GA

Instrument: tracegc84.i

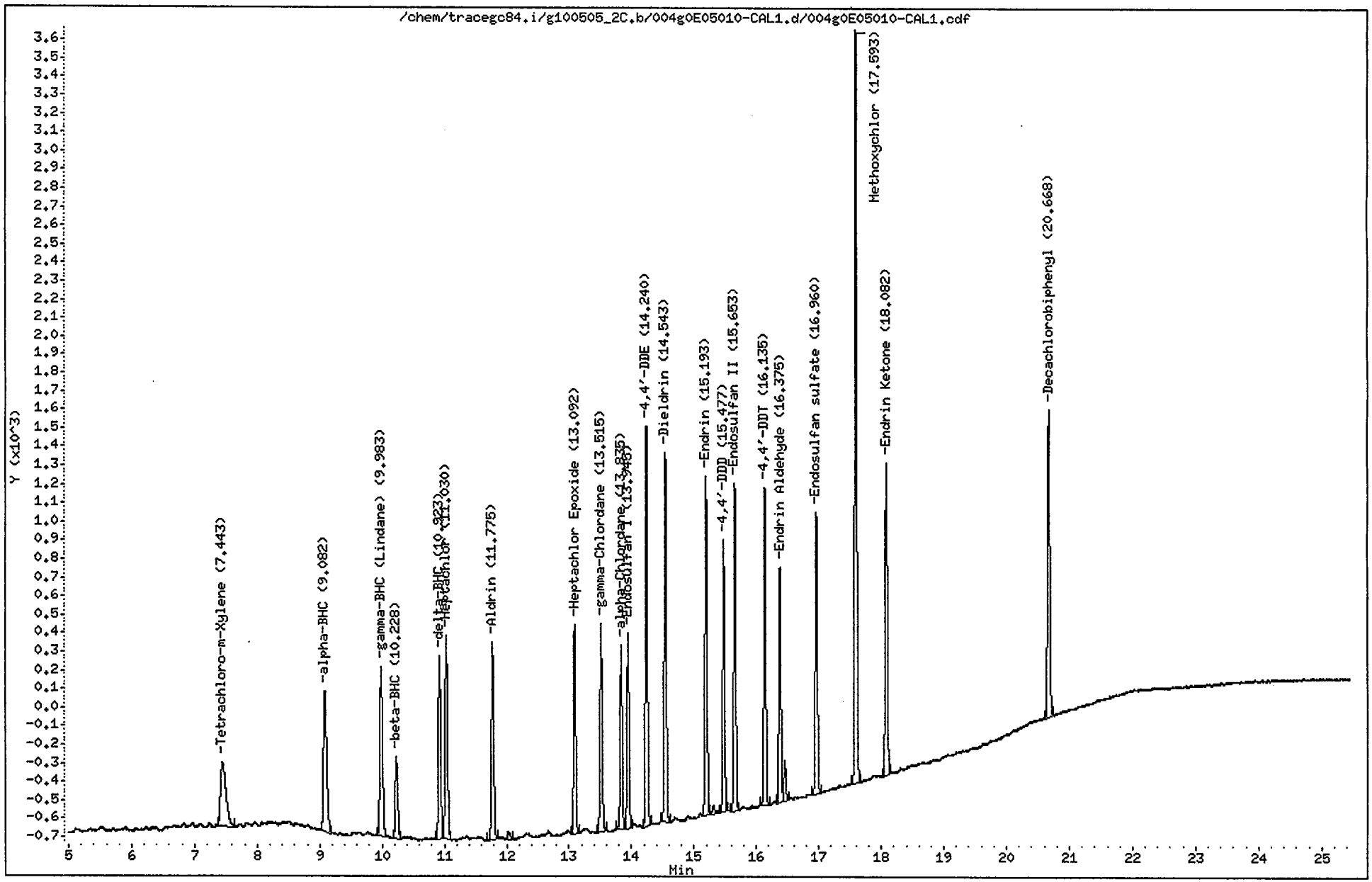
Sample Info: 0E05010-CAL1

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL1 Client Smp Id : INDC1GA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 05-MAY-2010 17:03 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : INDC1GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.38			166972					
2.31			100					
7.44	7.38	7.52	2080	407875	Tetrachloro-m-Xylene	0.005000	415800	
9.08	9.01	9.15	2713	597775	alpha-BHC	0.005000	542600	
9.98	9.91	10.05	2692	579612	gamma-BHC (Lindane)	0.005000	538400	
10.23	10.16	10.30	1226	246982	beta-BHC	0.005000	245200	
10.92	10.85	10.99	2393	527058	delta-BHC	0.005000	478600	
11.03	10.96	11.10	2892	568222	Heptachlor	0.005500	525636	
11.78	11.71	11.85	2645	535118	Aldrin	0.005000	528800	
12.03			97					
13.09	13.02	13.16	2499	501448	Heptachlor Epoxide	0.005000	499600	
13.52	13.45	13.59	2567	501695	gamma-Chlordane	0.005000	513200	
13.84	13.77	13.91	2203	433530	alpha-Chlordane	0.005000	440400	
13.94	13.88	14.02	2319	463952	Endosulfan I	0.005000	463800	
14.24	14.17	14.31	4626	453016	4,4'-DDE	0.010000	462600	
14.54	14.47	14.61	4448	448611	Dieldrin	0.010000	444800	
15.19	15.13	15.27	4036	402899	Endrin	0.010000	403500	
15.31			152					
15.48	15.41	15.55	3054	318030	4,4'-DDD	0.010000	305300	
15.65	15.58	15.72	3915	385788	Endosulfan II	0.010000	391400	
16.14	16.07	16.21	3640	365509	4,4'-DDT	0.010000	363900	
16.38	16.31	16.45	2858	284671	Endrin Aldehyde	0.010000	285800	
16.45			484					
16.96	16.89	17.03	3437	337218	Endosulfan sulfate	0.010000	343700	
17.59	17.52	17.66	8997	167230	Methoxychlor	0.050000	179940	
18.08	18.01	18.15	3829	383354	Endrin Ketone	0.010000	382900	
20.67	20.60	20.74	4051	358404	Decachlorobiphenyl	0.010000	405000	

Data File: /chem/tracegc84.i/g100505_2C.b/005g0E05010-CAL2.d

Date : 05-MAY-2010 17:32

Client ID: INDC2GA

Instrument: tracegc84.i

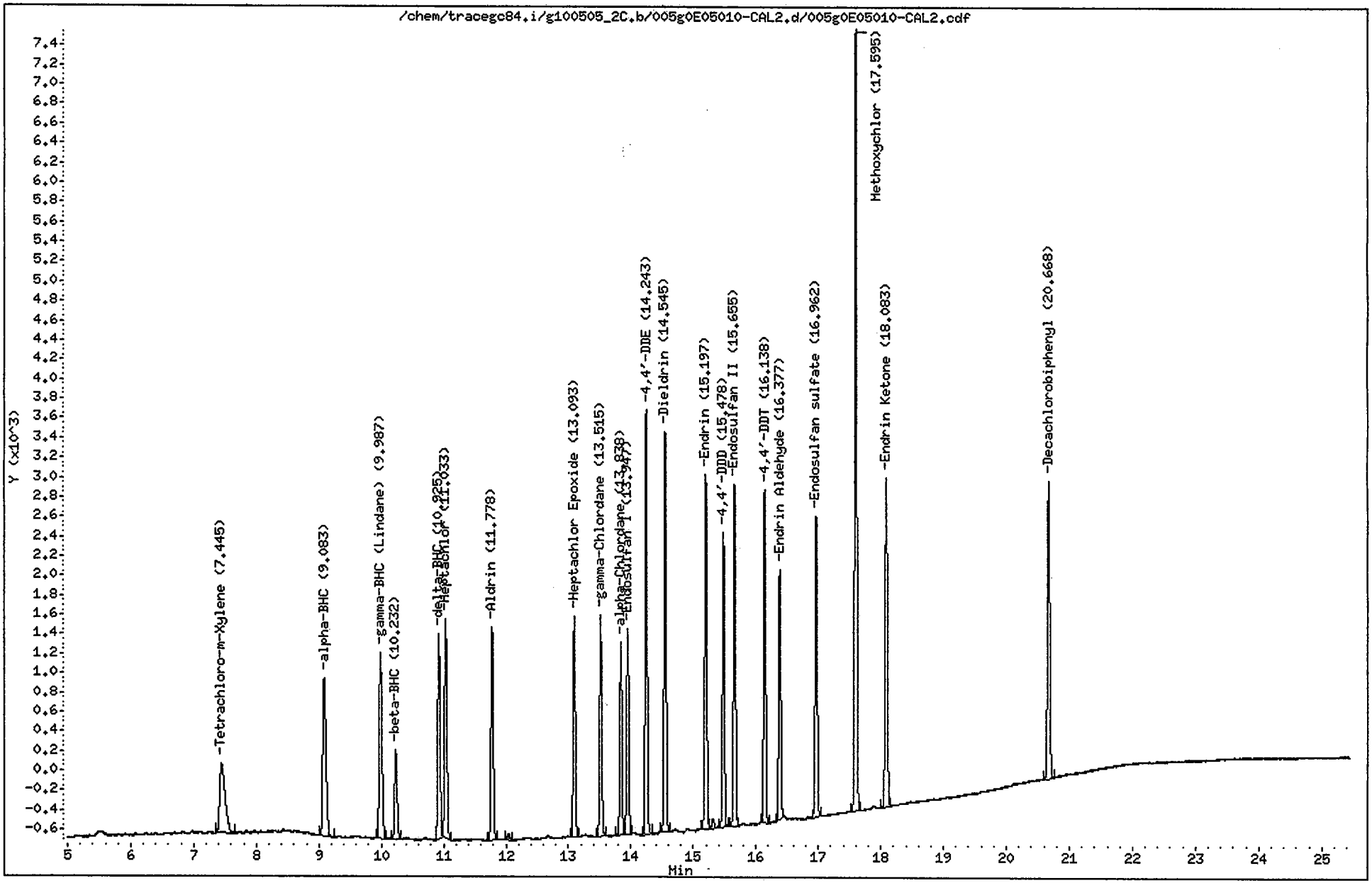
Sample Info: 0E05010-CAL2

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL2 Client Smp Id : INDC2GA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 05-MAY-2010 17:32 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : INDC2GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.36			6305					
2.31			103					
7.44	7.38	7.52	4129	407875	Tetrachloro-m-Xylene	0.010000	412900	
9.08	9.01	9.15	5779	597775	alpha-BHC	0.010000	577900	
9.99	9.91	10.05	5667	579612	gamma-BHC (Lindane)	0.010000	566700	
10.23	10.16	10.30	2507	246982	beta-BHC	0.010000	250700	
10.92	10.85	10.99	5073	527058	delta-BHC	0.010000	507300	
11.03	10.96	11.10	5821	568222	Heptachlor	0.010000	582100	
11.78	11.71	11.85	5385	535118	Aldrin	0.010000	538400	
12.04			154					
13.09	13.02	13.16	5107	501448	Heptachlor Epoxide	0.010000	510600	
13.52	13.45	13.59	5089	501695	gamma-Chlordane	0.010000	508800	
13.84	13.77	13.91	4421	433530	alpha-Chlordane	0.010000	442100	
13.95	13.88	14.02	4723	463952	Endosulfan I	0.010000	472200	
14.24	14.17	14.31	9282	453016	4,4'-DDE	0.020000	464100	
14.54	14.47	14.61	9109	448611	Dieldrin	0.020000	455400	
15.20	15.13	15.27	8198	402899	Endrin	0.020000	409850	
15.32			251					
15.48	15.41	15.55	6361	318030	4,4'-DDD	0.020000	318000	
15.66	15.58	15.72	7902	385788	Endosulfan II	0.020000	395050	
16.14	16.07	16.21	7315	365509	4,4'-DDT	0.020000	365750	
16.38	16.31	16.45	5758	284671	Endrin Aldehyde	0.020000	287850	
16.96	16.89	17.03	6959	337218	Endosulfan sulfate	0.020000	347900	
17.60	17.52	17.66	17754	167230	Methoxychlor	0.100000	177530	
18.08	18.01	18.15	7844	383354	Endrin Ketone	0.020000	392200	
20.67	20.60	20.74	7662	358404	Decachlorobiphenyl	0.020000	383050	

Data File: /chem/tracegc84.i/g100505_2C.b/006g0E05010-CAL3.d

Date : 05-MAY-2010 18:01

Client ID: INDC3GA

Instrument: tracegc84.i

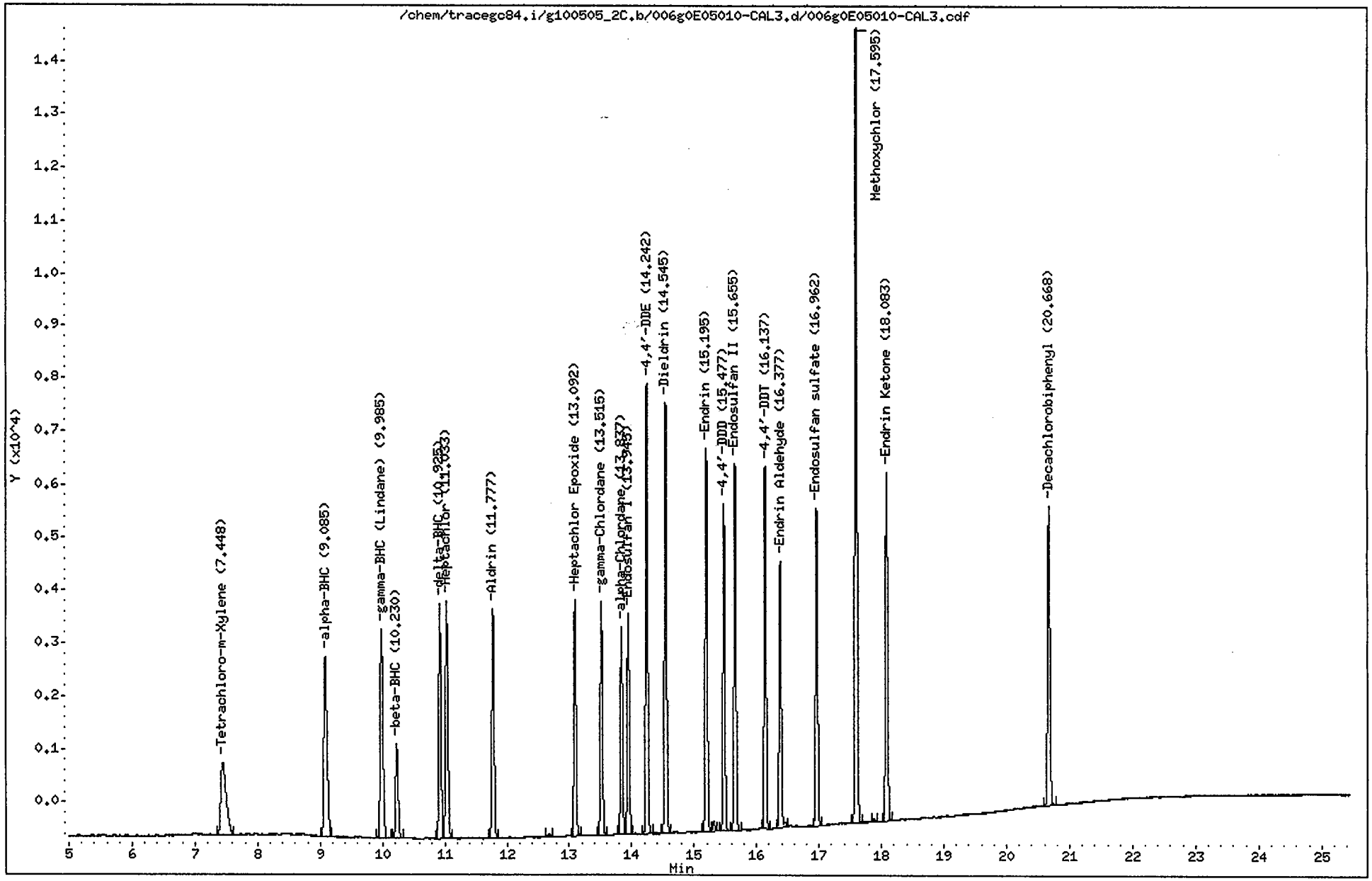
Sample Info: 0E05010-CAL3

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL3 Client Smp Id : INDC3GA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 05-MAY-2010 18:01 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.37			6207					
7.45	7.38	7.52	8198	407875	Tetrachloro-m-Xylene	0.020000	409850	
9.08	9.01	9.15	12071	597775	alpha-BHC	0.020000	603550	
9.98	9.91	10.05	11793	579612	gamma-BHC (Lindane)	0.020000	589600	
10.23	10.16	10.30	5009	246982	beta-BHC	0.020000	250450	
10.92	10.85	10.99	10761	527058	delta-BHC	0.020000	538050	
11.03	10.96	11.10	11829	568222	Heptachlor	0.020000	591400	
11.78	11.71	11.85	10848	535118	Aldrin	0.020000	542350	
12.68			144					
13.09	13.02	13.16	10241	501448	Heptachlor Epoxide	0.020000	512050	
13.52	13.45	13.59	10188	501695	gamma-Chlordane	0.020000	509350	
13.84	13.77	13.91	8808	433530	alpha-Chlordane	0.020000	440400	
13.94	13.88	14.02	9480	463952	Endosulfan I	0.020000	474000	
14.24	14.17	14.31	18407	453016	4,4'-DDE	0.040000	460175	
14.54	14.47	14.61	18357	448611	Dieldrin	0.040000	458925	
15.20	15.13	15.27	16467	402899	Endrin	0.040000	411675	
15.31			399					
15.48	15.41	15.55	12996	318030	4,4'-DDD	0.040000	324875	
15.66	15.58	15.72	15737	385788	Endosulfan II	0.040000	393425	
16.14	16.07	16.21	14797	365509	4,4'-DDT	0.040000	369925	
16.38	16.31	16.45	11762	284671	Endrin Aldehyde	0.040000	294050	
16.96	16.89	17.03	13694	337218	Endosulfan sulfate	0.040000	342350	
17.60	17.52	17.66	33914	167230	Methoxychlor	0.200000	169570	
17.88			158					
18.08	18.01	18.15	15600	383354	Endrin Ketone	0.040000	389975	
20.67	20.60	20.74	14366	358404	Decachlorobiphenyl	0.040000	359150	

Data File: /chem/tracegc84.i/g100505_2C.b/007g0E05010-CAL4.d

Date : 05-MAY-2010 18:30

Client ID: INDC4GA

Sample Info: 0E05010-CAL4

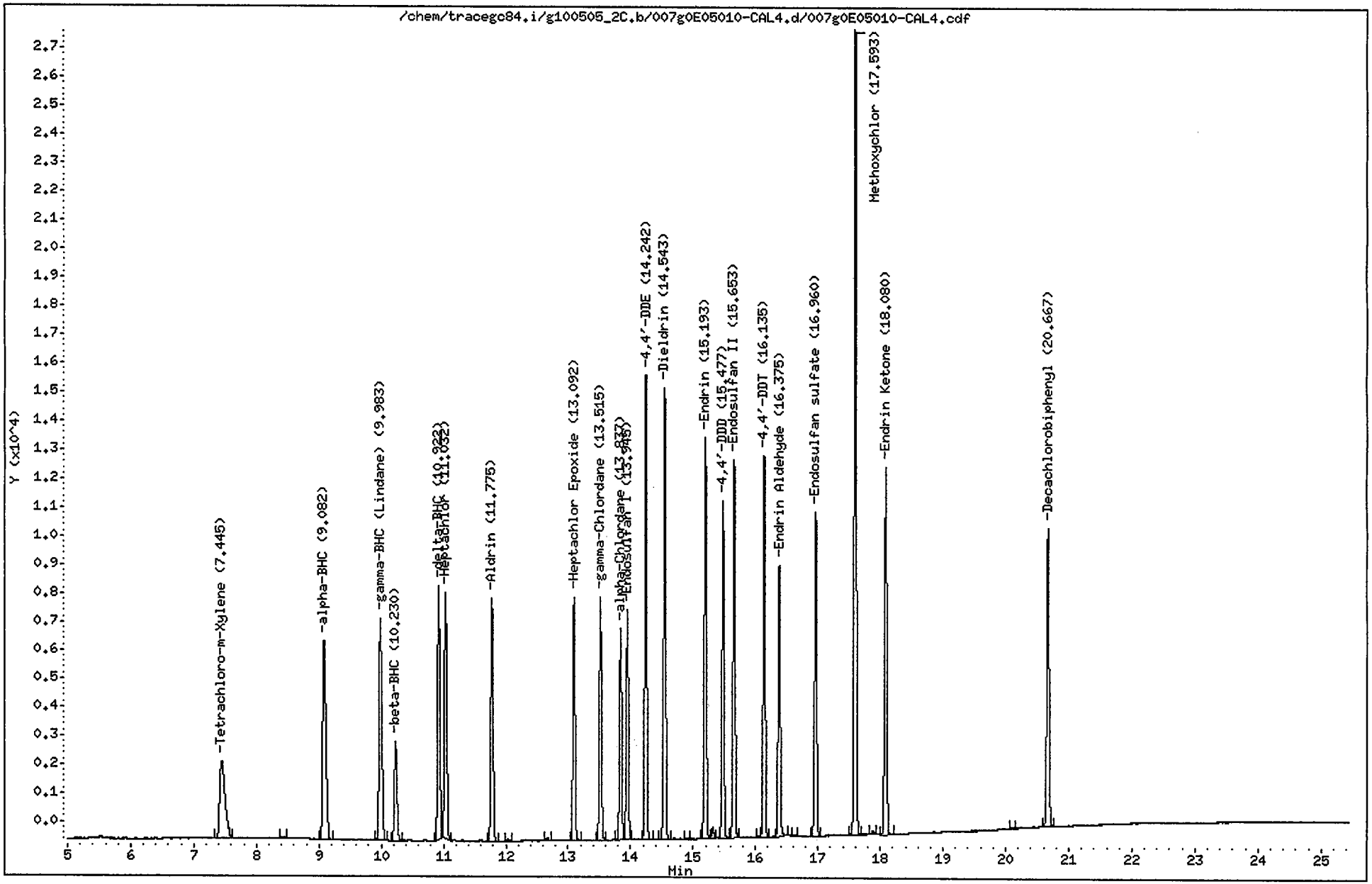
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: System

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL4 Client Smp Id : INDC4GA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 05-MAY-2010 18:30 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : INDC4GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.36			6310					
2.32			102					
7.44	7.38	7.52	16019	407875	Tetrachloro-m-Xylene	0.040000	400450	
8.42			140					
9.08	9.01	9.15	24737	597775	alpha-BHC	0.040000	618425	
9.98	9.91	10.05	23728	579612	gamma-BHC (Lindane)	0.040000	593175	
10.23	10.16	10.30	9777	246982	beta-BHC	0.040000	244400	
10.92	10.85	10.99	21811	527058	delta-BHC	0.040000	545250	
11.03	10.96	11.10	22872	568222	Heptachlor	0.040000	571800	
11.78	11.71	11.85	21281	535118	Aldrin	0.040000	532000	
12.04			148					
12.67			227					
13.09	13.02	13.16	19780	501448	Heptachlor Epoxide	0.040000	494500	
13.52	13.45	13.59	19587	501695	gamma-Chlordane	0.040000	489675	
13.84	13.77	13.91	16957	433530	alpha-Chlordane	0.040000	423900	
13.94	13.88	14.02	18311	463952	Endosulfan I	0.040000	457750	
14.24	14.17	14.31	35305	453016	4,4'-DDE	0.080000	441313	
14.54	14.47	14.61	35536	448611	Dieldrin	0.080000	444200	
14.90			127					
15.19	15.13	15.27	31680	402899	Endrin	0.080000	396000	
15.31			777					
15.48	15.41	15.55	25579	318030	4,4'-DDD	0.080000	319737	
15.65	15.58	15.72	30167	385788	Endosulfan II	0.080000	377087	
16.06			144					
16.14	16.07	16.21	29007	365509	4,4'-DDT	0.080000	362587	
16.38	16.31	16.45	22449	284671	Endrin Aldehyde	0.080000	280613	
16.62			117					
16.96	16.89	17.03	26254	337218	Endosulfan sulfate	0.080000	328175	
17.59	17.52	17.66	63271	167230	Methoxychlor	0.400000	158177	
17.88			292					
18.08	18.01	18.15	30250	383354	Endrin Ketone	0.080000	378125	
20.12			97					
20.67	20.60	20.74	26457	358404	Decachlorobiphenyl	0.080000	330700	

Data File: /chem/tracegc84.i/g100505_2C.b/008g0E05010-CAL5.d

Date : 05-MAY-2010 18:59

Client ID: INDC5GA

Instrument: tracegc84.i

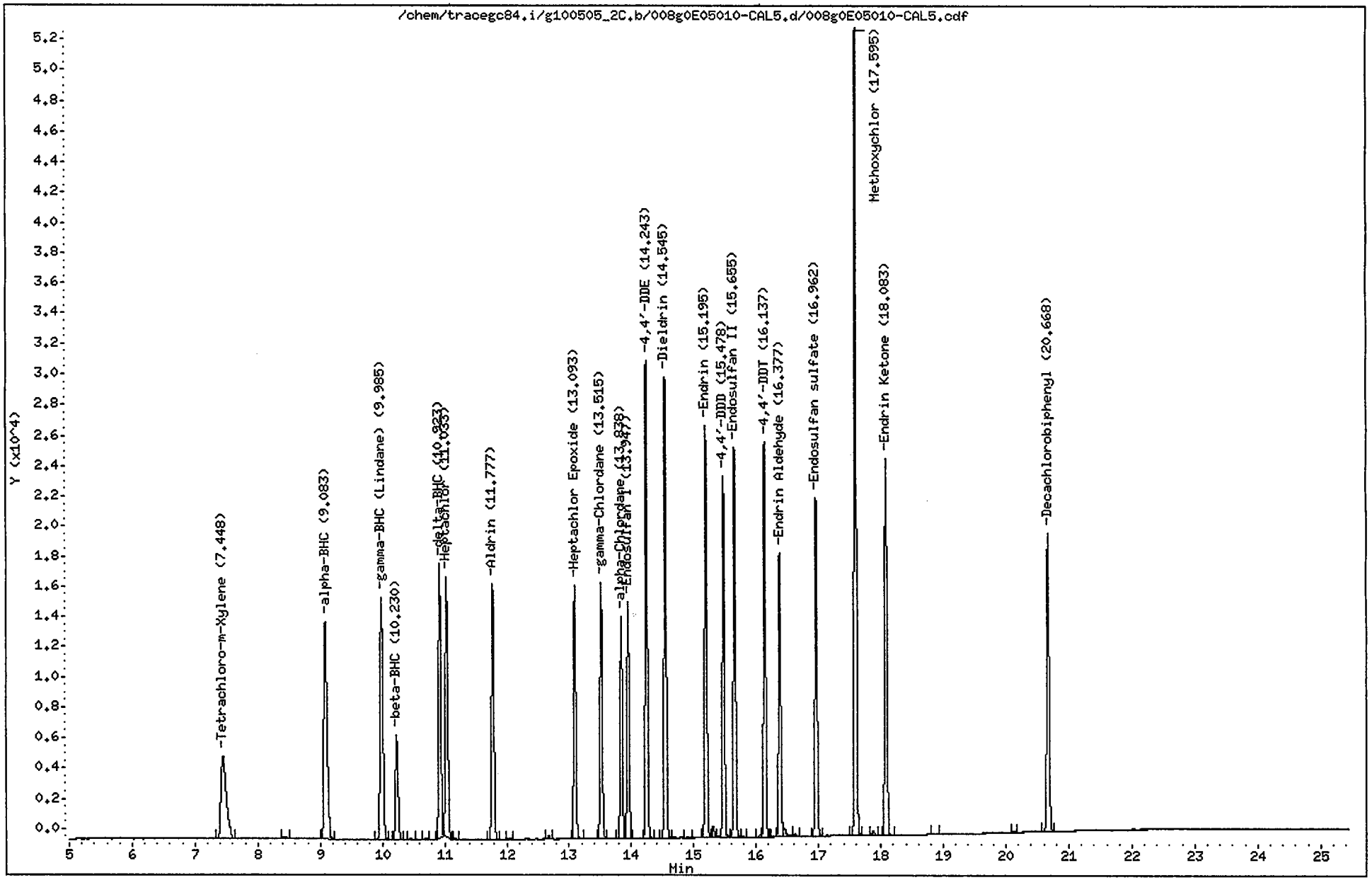
Sample Info: 0E05010-CAL5

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL5 Client Smp Id : INDC5GA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 05-MAY-2010 18:59 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : INDC5GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.38			12789					
2.33			112					
7.45	7.38	7.52	32031	407875	Tetrachloro-m-Xylene	0.080000	400375	
8.43			315					
9.08	9.01	9.15	51712	597775	alpha-BHC	0.080000	646400	
9.98	9.91	10.05	48815	579612	gamma-BHC (Lindane)	0.080000	610187	
10.23	10.16	10.30	19533	246982	beta-BHC	0.080000	244163	
10.45			174					
10.70			140					
10.92	10.85	10.99	45288	527058	delta-BHC	0.080000	566087	
11.03	10.96	11.10	45615	568222	Heptachlor	0.080000	570175	
11.16			174					
11.78	11.71	11.85	42723	535118	Aldrin	0.080000	534037	
12.04			209					
12.67			422					
13.09	13.02	13.16	39240	501448	Heptachlor Epoxide	0.080000	490487	
13.52	13.45	13.59	38996	501695	gamma-Chlordane	0.080000	487450	
13.84	13.77	13.91	33668	433530	alpha-Chlordane	0.080000	420850	
13.95	13.88	14.02	36162	463952	Endosulfan I	0.080000	452013	
14.24	14.17	14.31	69903	453016	4,4'-DDE	0.160000	436894	
14.54	14.47	14.61	70357	448611	Dieldrin	0.160000	439731	
14.90			196					
15.20	15.13	15.27	62955	402899	Endrin	0.160000	393469	
15.31			1698					
15.39			168					
15.48	15.41	15.55	51559	318030	4,4'-DDD	0.160000	322237	
15.66	15.58	15.72	59517	385788	Endosulfan II	0.160000	371975	
15.79			115					
16.06			324					
16.14	16.07	16.21	58462	365509	4,4'-DDT	0.160000	365381	
16.28			131					
16.38	16.31	16.45	44007	284671	Endrin Aldehyde	0.160000	275044	
16.45			2012					
16.63			401					
16.96	16.89	17.03	51834	337218	Endosulfan sulfate	0.160000	323963	
17.60	17.52	17.66	120745	167230	Methoxychlor	0.800000	150931	
17.88			627					
18.08	18.01	18.15	59772	383354	Endrin Ketone	0.160000	373569	
18.85			110					
20.12			188					
20.67	20.60	20.74	50259	358404	Decachlorobiphenyl	0.160000	314119	

Data File: /chem/tracegc84.i/g100505_2C.b/009g0E05010-ARC1.d

Date : 05-MAY-2010 19:28

Client ID: TOXAPH3GA

Instrument: tracegc84.i

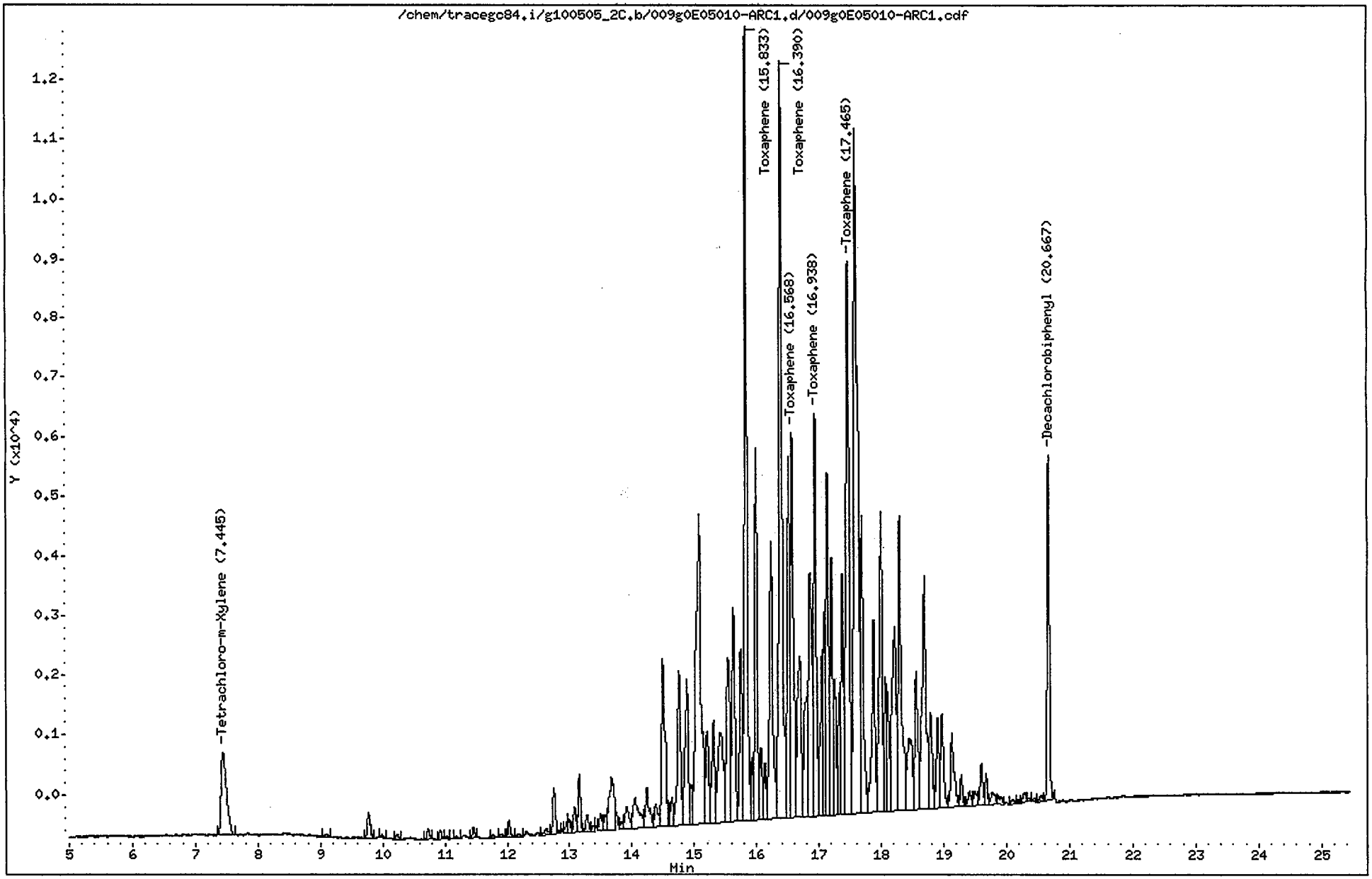
Sample Info: 0E05010-ARC1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC1 Client Smp Id : TOXAPH3GA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 05-MAY-2010 19:28 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.23			95					
1.37			7287					
1.67			4154					
7.44	7.38	7.52	8208	407875	Tetrachloro-m-Xylene	0.020000	409850	
9.09			200					
9.77			1487					
9.98			178					
10.23			269					
10.73			470					
10.92			361					
11.03			103					
11.19			128					
11.46			423					
11.78			136					
11.90			179					
12.03			756					
12.18			152					
12.62			438					
12.75			2313					
12.97			523					
13.00			552					
13.08			1215					
13.16			2331					
13.28			947					
13.38			294					
13.49			998					
13.57			818					
13.68			5005					
13.84			378					
13.92			1730					
14.05			3479					
14.24			2813					
14.38			1461					
14.50			10588					
14.64			1441					
14.76			9347					
14.89			9044					
14.95			1605					
15.08			29495					
15.21			5322					
15.31			5730					
15.42			9855					

CompuChem

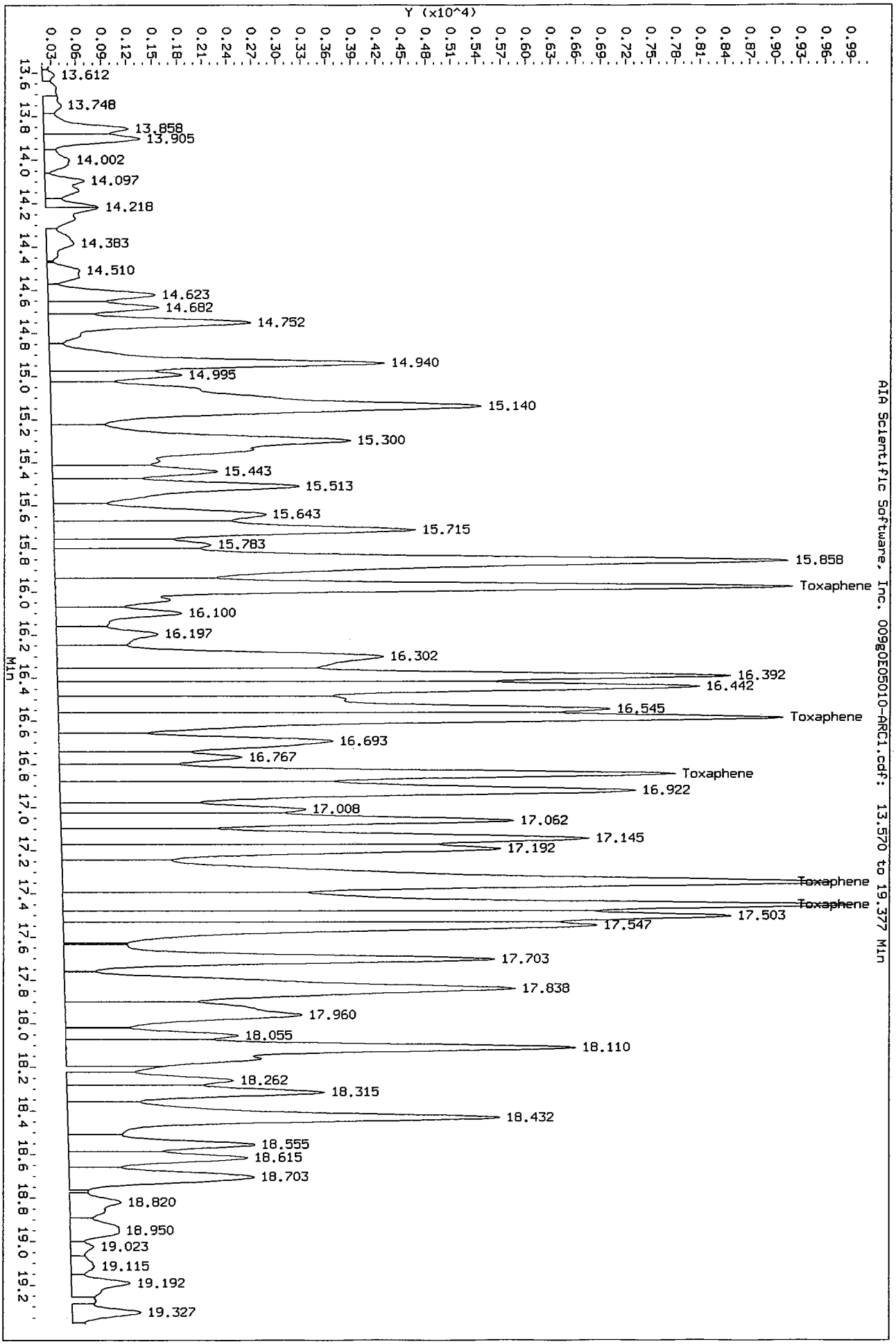
Lab Smp Id : 0E05010-ARC1 Client Smp Id : TOXAPH3GA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 05-MAY-2010 19:28 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.54		11011					
15.63		11673					
15.75		9233					
15.83	15.76 15.90	35591	17796	Toxaphene Peak 1	2.000000	17795	
15.92		2599					
15.99		16368					
16.07		3698					
16.14		2557					
16.23		16936					
16.39	16.32 16.46	43610	21805	Toxaphene Peak 2	2.000000	21805	
16.52		16386					
16.57	16.50 16.64	20867	10434	Toxaphene Peak 3	2.000000	10433	
16.70		11454					
16.80		8380					
16.86		15558					
16.94	16.87 17.01	19192	9596	Toxaphene Peak 4	2.000000	9595.500	
17.05		8317					
17.09		7774					
17.14		16113					
17.20		11751					
17.26		5695					
17.33		4935					
17.37		10733					
17.46	17.39 17.53	33934	16966	Toxaphene Peak 5	2.000000	16967	
17.59		50235					
17.69		15445					
17.88		11184					
18.00		16858					
18.07		5859					
18.10		4692					
18.21		15162					
18.29		17585					
18.44		6685					
18.56		8204					
18.69		16727					
18.79		5277					
18.90		4900					
18.97		5029					
19.13		4740					
19.28		1408					
19.41		907					
19.49		1056					

CompuChem

Lab Smp Id : 0E05010-ARC1 Client Smp Id : TOXAPH3GA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 05-MAY-2010 19:28 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
19.60		1992					
19.68		1282					
19.78		957					
19.87		600					
20.11		262					
20.18		146					
20.29		508					
20.35		113					
20.43		162					
20.56		349					
20.67	20.60 20.74	14823	358404	Decachlorobiphenyl	0.040000	359150	


Data File: /chem/tracegc84.i/g100505.b/009g0E05010-ARC1.d/009g0E05010-ARC1.cdf
Injection Date: 05-MAY-2010 19:28
Instrument: tracegc84.i
Client Sample ID: TOXAPH3GA
Y (x10^4)
Min
AIA Scientific Software, Inc. 009g0E05010-ARC1.cdf: 13.570 to 19.377 Min
13.612
13.748
13.858
13.905
14.002
14.097
14.218
14.383
14.510
14.623
14.682
14.752
14.940
14.995
15.140
15.300
15.443
15.513
15.643
15.715
15.783
15.858
Toxaphene
16.100
16.197
16.302
16.392
16.442
16.545
Toxaphene
16.693
16.767
Toxaphene
16.922
17.008
17.062
17.145
17.192
Toxaphene
Toxaphene
17.503
17.547
17.703
17.838
17.960
18.055
18.110
18.262
18.315
18.432
18.555
18.615
18.703
18.820
18.950
19.023
19.115
19.192
19.327

Data File: /chem/tracegc84.i/g100505_2C.b/010g0E05010-ARC2.d

Date : 05-MAY-2010 19:57

Client ID: CHLOR03GA

Sample Info: 0E05010-ARC2

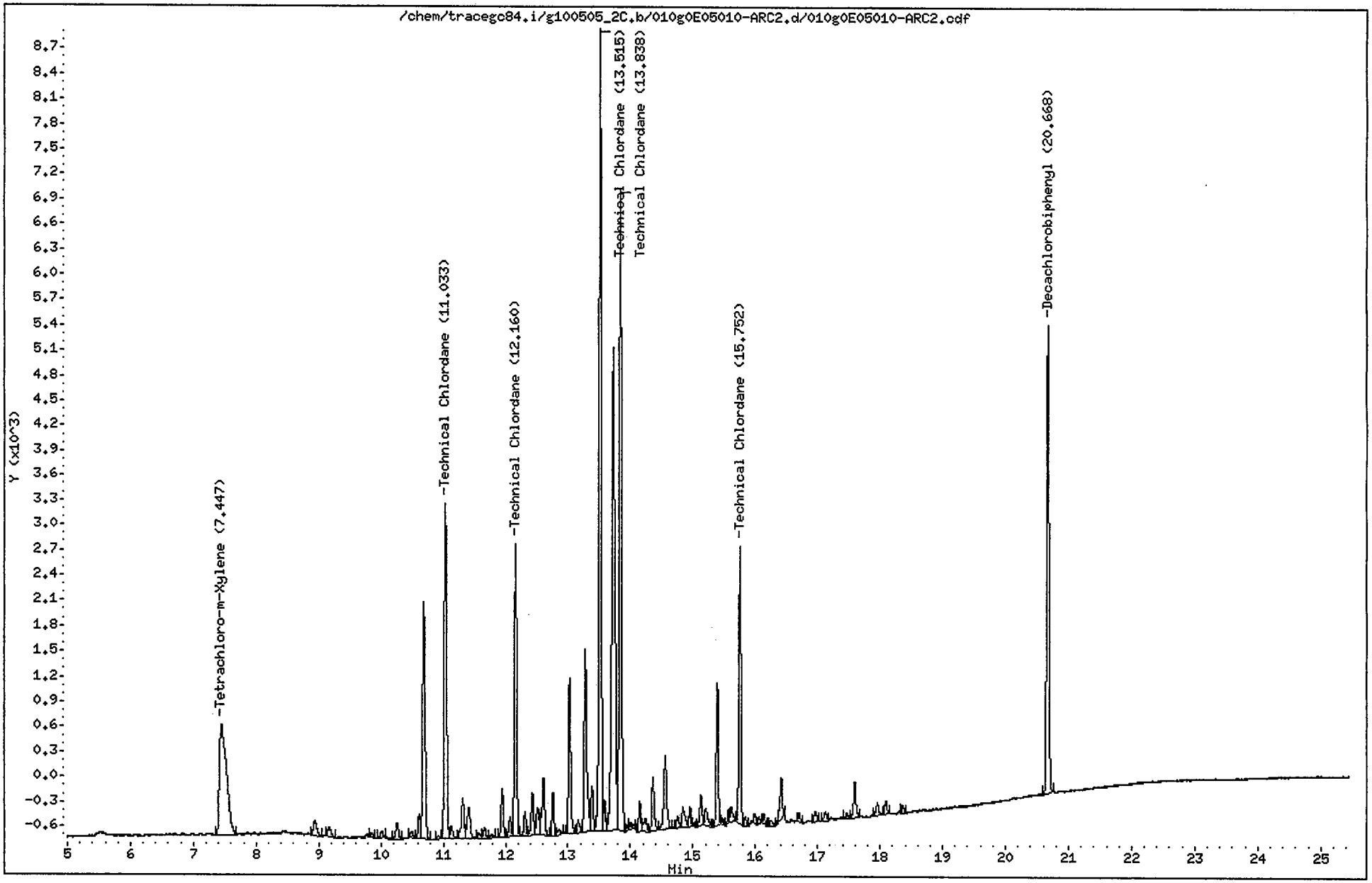
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC2 Client Smp Id : CHLORO3GA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 05-MAY-2010 19:57 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.24		95					
1.35		5535					
7.45	7.38 7.52	10387	407875	Tetrachloro-m-Xylene	0.020000	409850	
8.94		650					
9.16		427					
9.85		150					
10.01		253					
10.26		636					
10.50		247					
10.61		743					
10.69		7900					
10.93		96					
11.03	10.96 11.10	10785	26960	TechnicalChlordane Peak 1	0.400000	26960	
11.13		429					
11.31		1524					
11.41		1402					
11.57		230					
11.66		352					
11.78		129					
11.95		1444					
12.07		639					
12.16	12.09 12.23	8458	21145	TechnicalChlordane Peak 2	0.400000	21145	
12.31		726					
12.43		1338					
12.52		1035					
12.61		2181					
12.76		1142					
12.86		209					
13.03		4492					
13.16		420					
13.28		6298					
13.39		1476					
13.52	13.45 13.59	22741	56852	TechnicalChlordane Peak 3	0.400000	56853	
13.59		781					
13.72		20087					
13.84	13.77 13.91	18651	46628	TechnicalChlordane Peak 4	0.400000	46627	
13.95		97					
14.00		297					
14.15		795					
14.24		594					
14.36		1691					
14.56		2854					

CompuChem

Lab Smp Id : 0E05010-ARC2 Client Smp Id : CHLORO3GA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 05-MAY-2010 19:57 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.75		385					
14.84		825					
14.96		490					
15.03		101					
15.13		982					
15.21		704					
15.39		3951					
15.48		138					
15.57		269					
15.62		492					
15.75	15.68 15.82	7330	18325	TechnicalChlordane Peak 5	0.400000	18325	
15.84		237					
15.99		202					
16.06		187					
16.14		257					
16.26		232					
16.41		1376					
16.70		268					
16.96		392					
17.13		314					
17.46		170					
17.59		1158					
17.96		452					
18.09		430					
18.37		236					
20.67	20.60 20.74	13953	358404	Decachlorobiphenyl	0.040000	359150	

Data File: /chem/tracegc84.i/g100505_2C.b/011g0E05010-CAL6.d

Date : 05-MAY-2010 20:26

Client ID: AR16601GA

Instrument: tracegc84.i

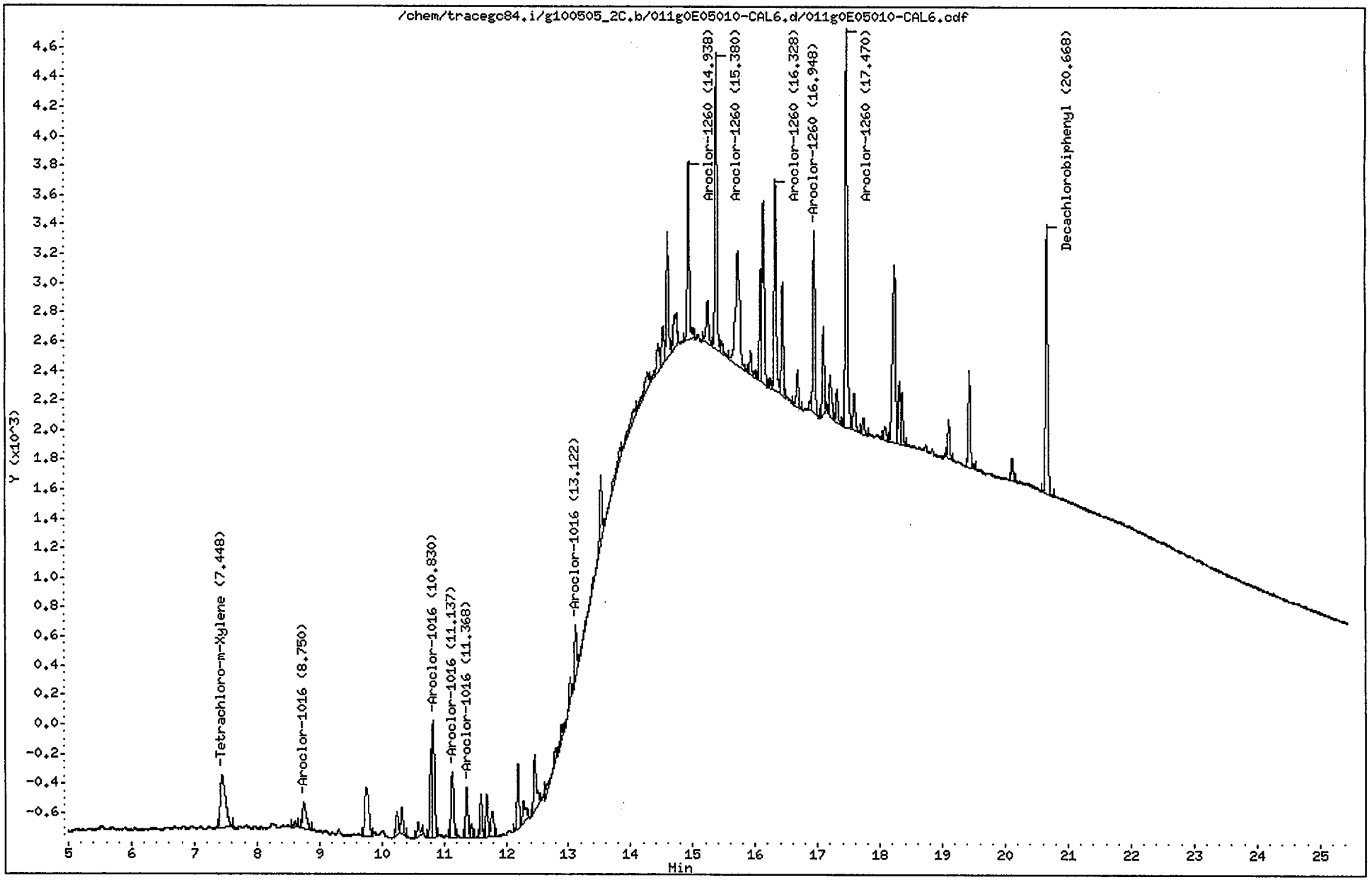
Sample Info: 0E05010-CAL6

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL6 Client Smp Id : AR16601GA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 05-MAY-2010 20:26 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16601GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.36			6722					
2.31			98					
7.45	7.38	7.52	2022	407875	Tetrachloro-m-Xylene	0.005000	415800	
8.61			117					
8.75	8.68	8.82	795	7292	Aroclor-1016 Peak 1	0.100000	7940.000	
9.75			1499					
10.25			376					
10.32			450					
10.58			290					
10.80			1160					
10.83	10.76	10.90	2224	20647	Aroclor-1016 Peak 2	0.100000	22240	
11.14	11.06	11.20	1288	12384	Aroclor-1016 Peak 3	0.100000	12880	
11.37	11.30	11.44	881	8199	Aroclor-1016 Peak 4	0.100000	8800.000	
11.44			215					
11.60			687					
11.69			705					
11.78			555					
12.19			1035					
12.28			508					
12.46			1157					
12.80			514					
12.89			220					
13.04			393					
13.12	13.05	13.19	807	8243	Aroclor-1016 Peak 5	0.100000	8060.000	
13.53			1199					
13.85			570					
14.08			449					
14.28			637					
14.45			713					
14.53			768					
14.60			2016					
14.71			993					
14.94	14.87	15.01	2827	21767	Aroclor-1260 Peak 1	0.100000	28270	
15.24			786					
15.38	15.31	15.45	4497	36912	Aroclor-1260 Peak 2	0.100000	44960	
15.48			223					
15.73			3700					
15.94			492					
16.09			1731					
16.14			3128					
16.25			138					
16.33	16.26	16.40	3379	28538	Aroclor-1260 Peak 3	0.100000	33790	

CompuChem

Lab Smp Id : 0E05010-CAL6 Client Smp Id : AR16601GA
Sample Type : INITIAL CAL: Level 1 Sublist : AR1660
Inj Date : 05-MAY-2010 20:26 Inst ID :
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16601GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.44		1725					
16.68		627					
16.89		132					
16.95	16.88 17.02	2781	23367	Aroclor-1260 Peak 4	0.100000	27810	
17.10		1244					
17.21		712					
17.32		517					
17.47	17.40 17.54	6368	54848	Aroclor-1260 Peak 5	0.100000	63670	
17.59		677					
17.74		296					
18.09		274					
18.24		4126					
18.32		949					
18.36		764					
19.11		562					
19.43		1542					
20.12		350					
20.67	20.60 20.74	4578	358404	Decachlorobiphenyl	0.010000	405000	

Data File: /chem/tracegc84.i/g100505_2C.b/012g0E05010-CAL7.d

Date : 05-MAY-2010 20:55

Client ID: AR16602GA

Instrument: tracegc84.i

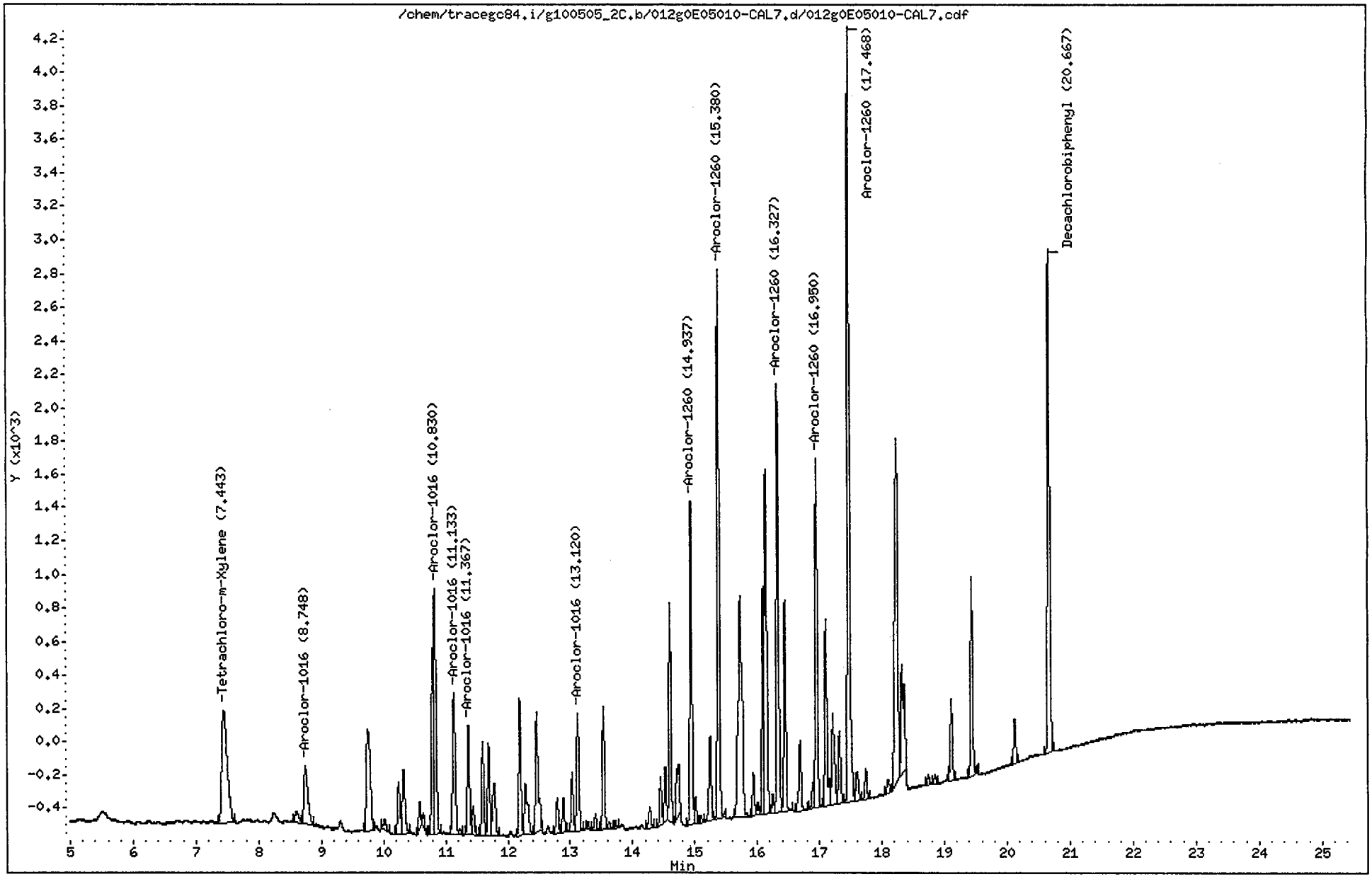
Sample Info: 0E05010-CAL7

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL7 Client Smp Id : AR16602GA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 05-MAY-2010 20:55 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16602GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.24			102					
1.35			6652					
2.31			113					
7.44	7.38	7.52	4128	407875	Tetrachloro-m-Xylene	0.010000	412900	
8.61			292					
8.75	8.68	8.82	1465	7292	Aroclor-1016 Peak 1	0.200000	7325.000	
9.75			2786					
10.02			176					
10.24			874					
10.32			1172					
10.58			353					
10.64			179					
10.79			2165					
10.83	10.76	10.90	4257	20647	Aroclor-1016 Peak 2	0.200000	21280	
11.13	11.06	11.20	2584	12384	Aroclor-1016 Peak 3	0.200000	12920	
11.37	11.30	11.44	1659	8199	Aroclor-1016 Peak 4	0.200000	8290.000	
11.44			425					
11.60			1388					
11.69			1403					
11.78			1089					
12.19			1944					
12.28			1157					
12.46			2173					
12.79			523					
12.89			477					
13.03			837					
13.12	13.05	13.19	1780	8243	Aroclor-1016 Peak 5	0.200000	8895.000	
13.29			109					
13.40			240					
13.53			1695					
13.62			106					
13.72			98					
14.28			355					
14.45			623					
14.52			709					
14.60			2855					
14.71			1146					
14.94	14.87	15.01	4426	21767	Aroclor-1260 Peak 1	0.200000	22125	
15.01			346					
15.09			98					
15.24			1278					
15.38	15.31	15.45	7495	36912	Aroclor-1260 Peak 2	0.200000	37470	

5/6/10

CompuChem

Lab Smp Id : 0E05010-CAL7 Client Smp Id : AR16602GA
Sample Type : INITIAL CAL: Level 2 Sublist : AR1660
Inj Date : 05-MAY-2010 20:55 Inst ID :
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16602GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.72		5863					
15.94		576					
16.01		149					
16.09		3127					
16.14		5264					
16.25		237					
16.33	16.26 16.40	5870	28538	Aroclor-1260 Peak 3	0.200000	29350	
16.44		2885					
16.69		1113					
16.89		322					
16.95	16.88 17.02	4812	23367	Aroclor-1260 Peak 4	0.200000	24060	
17.10		2856					
17.21		1665					
17.32		1075					
17.47	17.40 17.54	11199	54848	Aroclor-1260 Peak 5	0.200000	55990	
17.60		553					
17.74		427					
18.10		238					
18.24		7024					
18.32		2379					
18.74		144					
18.85		118					
19.11		1129					
19.43		2710					
20.12		621					
20.67	20.60 20.74	7600	358404	Decachlorobiphenyl	0.020000	383050	

Data File: /chem/tracegc84.i/g100505_2C.b/013g0E05010-CAL8.d

Date : 05-MAY-2010 21:24

Client ID: AR16603GA

Instrument: tracegc84.i

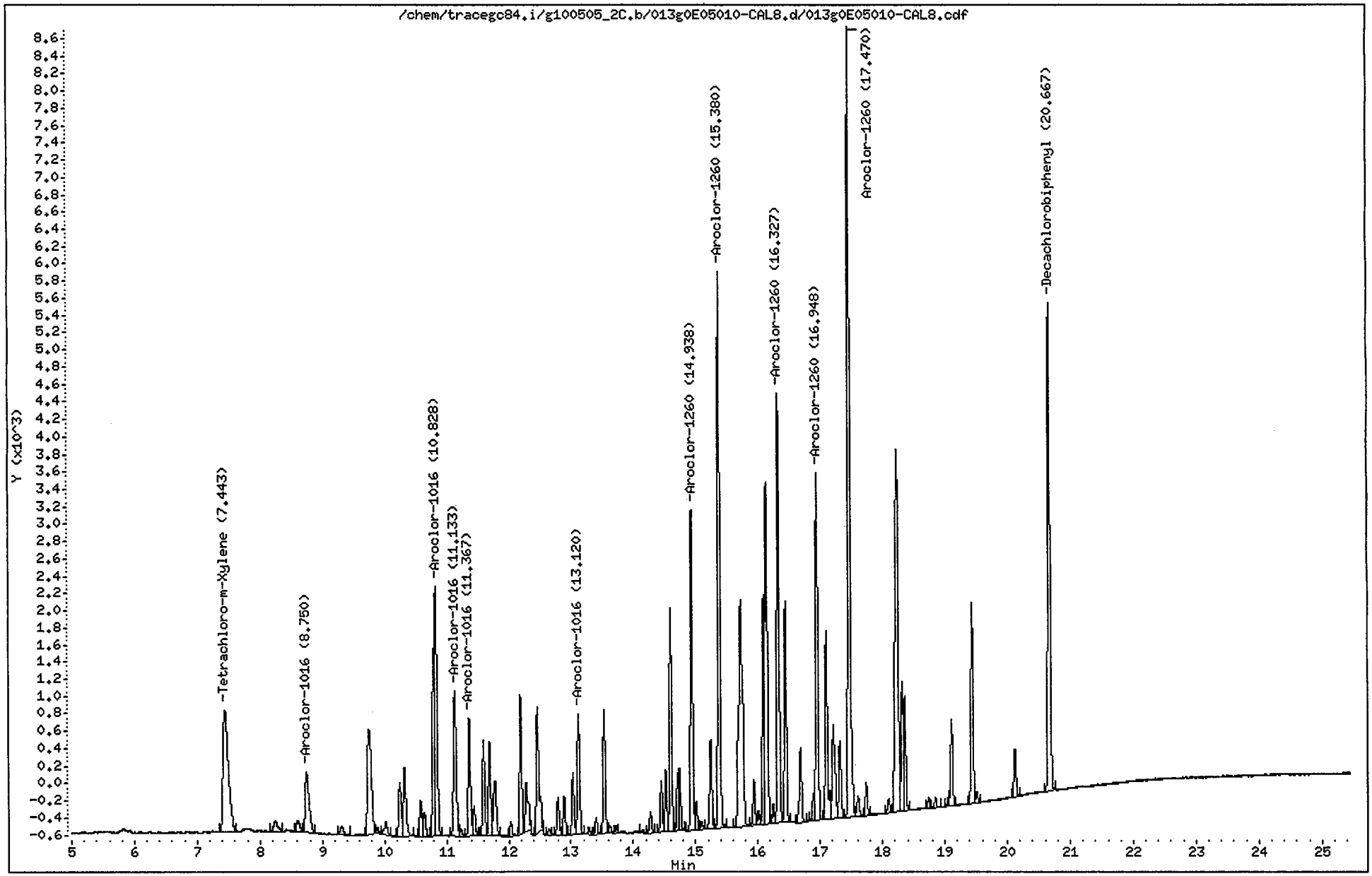
Sample Info: 0E05010-CAL8

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL8 Client Smp Id : AR16603GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 05-MAY-2010 21:24 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.38			183654					
7.44	7.38	7.52	8358	407875	Tetrachloro-m-Xylene	0.020000	409850	
8.24			556					
8.60			513					
8.75	8.68	8.82	2932	7292	Aroclor-1016 Peak 1	0.400000	7327.500	
9.31			381					
9.75			5465					
9.88			172					
10.02			542					
10.24			1776					
10.32			2421					
10.58			1100					
10.64			745					
10.79			4242					
10.83	10.76	10.90	8437	20647	Aroclor-1016 Peak 2	0.400000	21090	
11.13	11.06	11.20	5168	12384	Aroclor-1016 Peak 3	0.400000	12920	M2
11.23			201					
11.37	11.30	11.44	3379	8199	Aroclor-1016 Peak 4	0.400000	8447.500	
11.44			886					
11.60			2651					
11.69			2836					
11.78			2169					
12.03			429					
12.19			3740					
12.28			1839					
12.46			4283					
12.65			189					
12.79			1046					
12.89			1036					
13.03			1671					
13.12	13.05	13.19	3519	8243	Aroclor-1016 Peak 5	0.400000	8795.000	
13.29			213					
13.40			433					
13.53			3246					
13.63			237					
13.72			177					
14.15			91					
14.28			585					
14.45			1351					
14.52			1577					
14.60			5805					
14.71			1276					

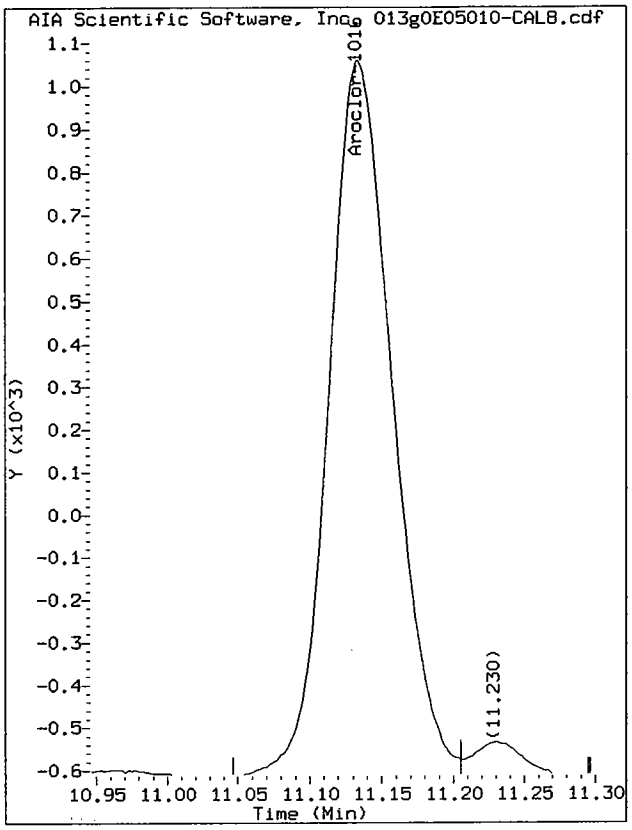
PW 5/7/10

CompuChem

Lab Smp Id : 0E05010-CAL8 Client Smp Id : AR16603GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1660
Inj Date : 05-MAY-2010 21:24 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603GA

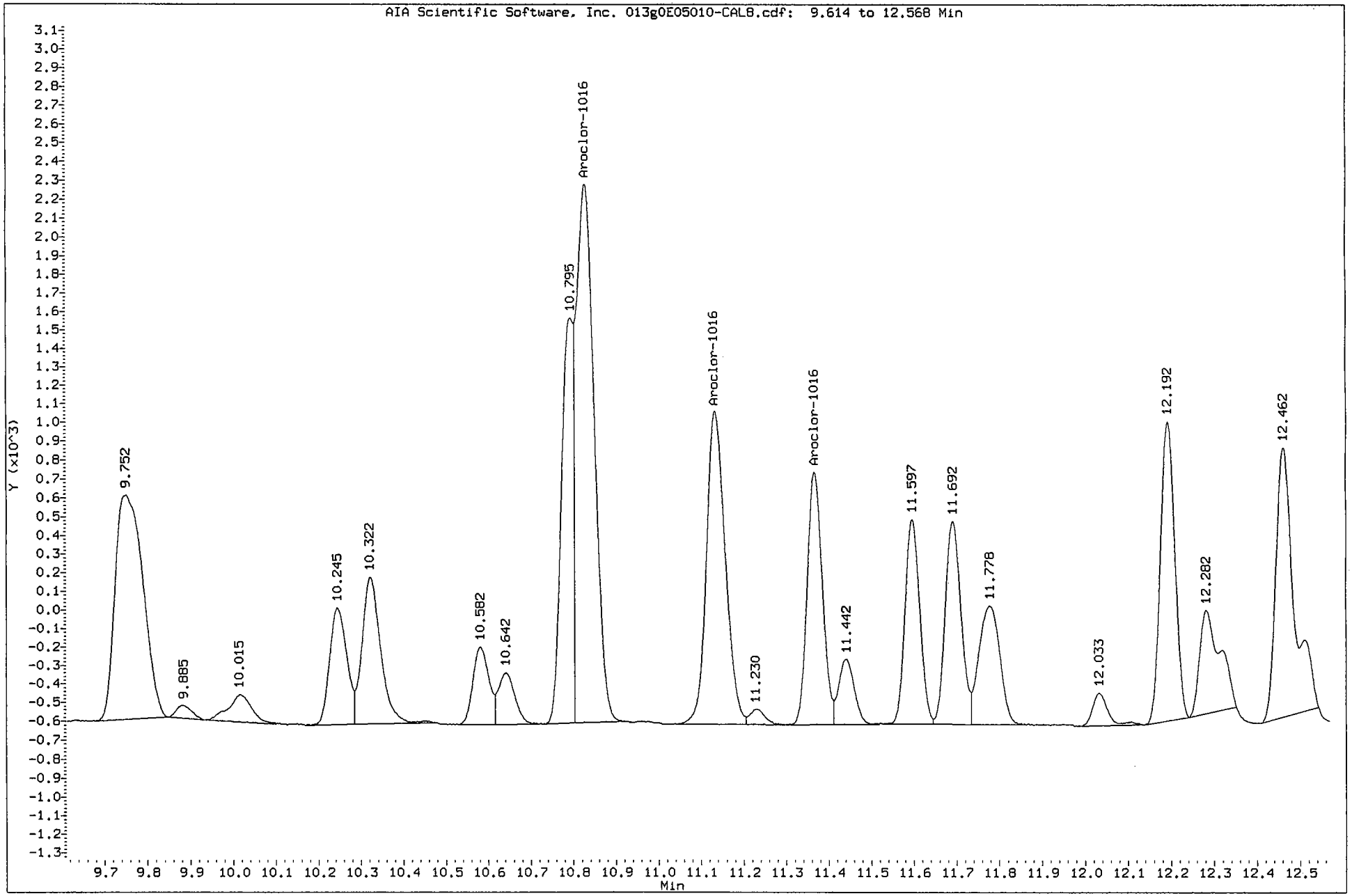
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.74		1566					
14.94	14.87 15.01	8549	21767	Aroclor-1260 Peak 1	0.400000	21373	
15.01		724					
15.10		200					
15.24		2572					
15.38	15.31 15.45	14705	36912	Aroclor-1260 Peak 2	0.400000	36763	
15.72		11476					
15.94		1181					
16.00		318					
16.09		6135					
16.14		10324					
16.25		466					
16.33	16.26 16.40	11411	28538	Aroclor-1260 Peak 3	0.400000	28527	
16.44		5801					
16.68		2185					
16.89		640					
16.95	16.88 17.02	9336	23367	Aroclor-1260 Peak 4	0.400000	23340	
17.10		5642					
17.21		3311					
17.32		2166					
17.47	17.40 17.54	21994	54848	Aroclor-1260 Peak 5	0.400000	54983	
17.61		650					
17.74		849					
18.10		413					
18.24		14615					
18.32		3326					
18.36		2866					
18.74		276					
18.85		276					
19.05		178					
19.11		2274					
19.44		5348					
19.51		267					
20.12		1273					
20.67	20.60 20.74	14393	358404	Decachlorobiphenyl	0.040000	359150	

Manually Integrated Peaks



Start: 11.05 Stop: 11.21

Data File: /chem/tracegc84.i/g100505_2C.b/013g0E05010-CAL8.d/013g0E05010-CAL8.cdf
Injection Date: 05-MAY-2010 21:24
Instrument: tracegc84.i
Client Sample ID: AR16603GA



Data File: /chem/tracegc84.i/g100505_2C.b/014g0E05010-CAL9.d

Date : 05-MAY-2010 21:53

Client ID: AR16604GA

Instrument: tracegc84.i

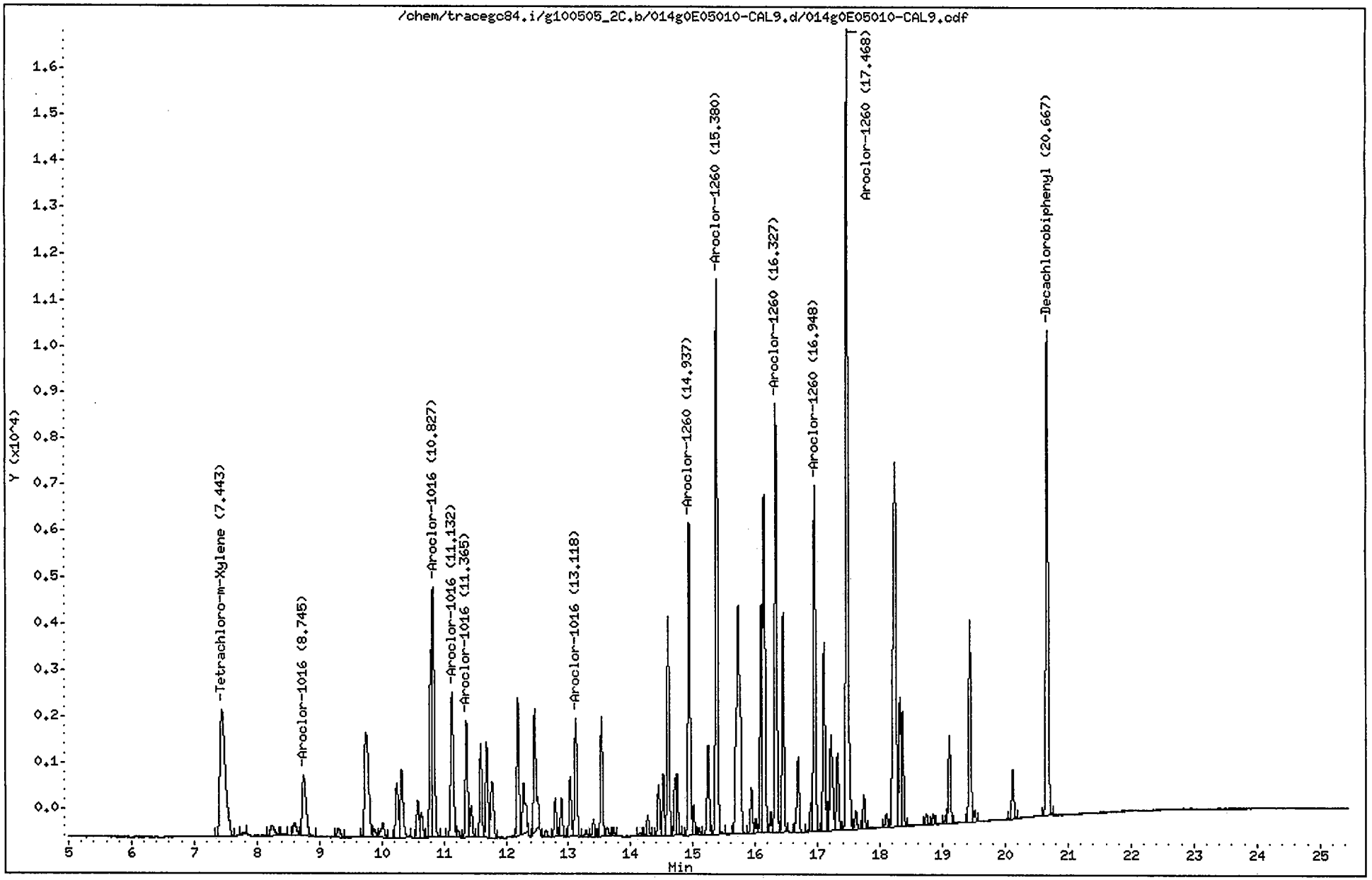
Sample Info: 0E05010-CAL9

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CAL9 Client Smp Id : AR16604GA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 05-MAY-2010 21:53 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16604GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.24			105					
1.36			2089					
7.44	7.38	7.52	16414	407875	Tetrachloro-m-Xylene	0.040000	400450	
7.78			121					
8.24			1026					
8.44			123					
8.60			1124					
8.74	8.68	8.82	5781	7292	Aroclor-1016 Peak 1	0.800000	7226.250	
9.30			714					
9.75			10550					
9.88			449					
10.02			1079					
10.24			3396					
10.32			4620					
10.58			2173					
10.64			1483					
10.79			8578					
10.83	10.76	10.90	15749	20647	Aroclor-1016 Peak 2	0.800000	19686	M
11.13	11.06	11.20	9750	12384	Aroclor-1016 Peak 3	0.800000	12186	
11.23			407					
11.36	11.30	11.44	6471	8199	Aroclor-1016 Peak 4	0.800000	8087.500	
11.44			1753					
11.60			5031					
11.69			5342					
11.78			4179					
12.19			6982					
12.28			3674					
12.46			7883					
12.64			411					
12.79			2040					
12.89			1940					
13.03			3104					
13.12	13.05	13.19	6524	8243	Aroclor-1016 Peak 5	0.800000	8155.000	
13.29			362					
13.40			858					
13.53			5989					
13.63			511					
13.72			353					
14.15			176					
14.27			1035					
14.45			2550					
14.52			2986					

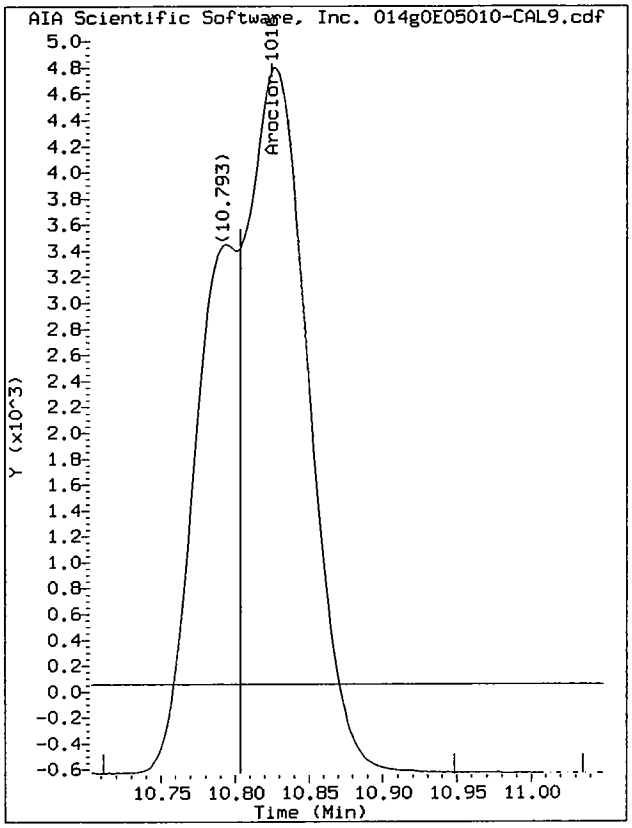
2 pw 5/7/10

CompuChem

Lab Smp Id : 0E05010-CAL9 Client Smp Id : AR16604GA
Sample Type : INITIAL CAL: Level 4 Sublist : AR1660
Inj Date : 05-MAY-2010 21:53 Inst ID :
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16604GA

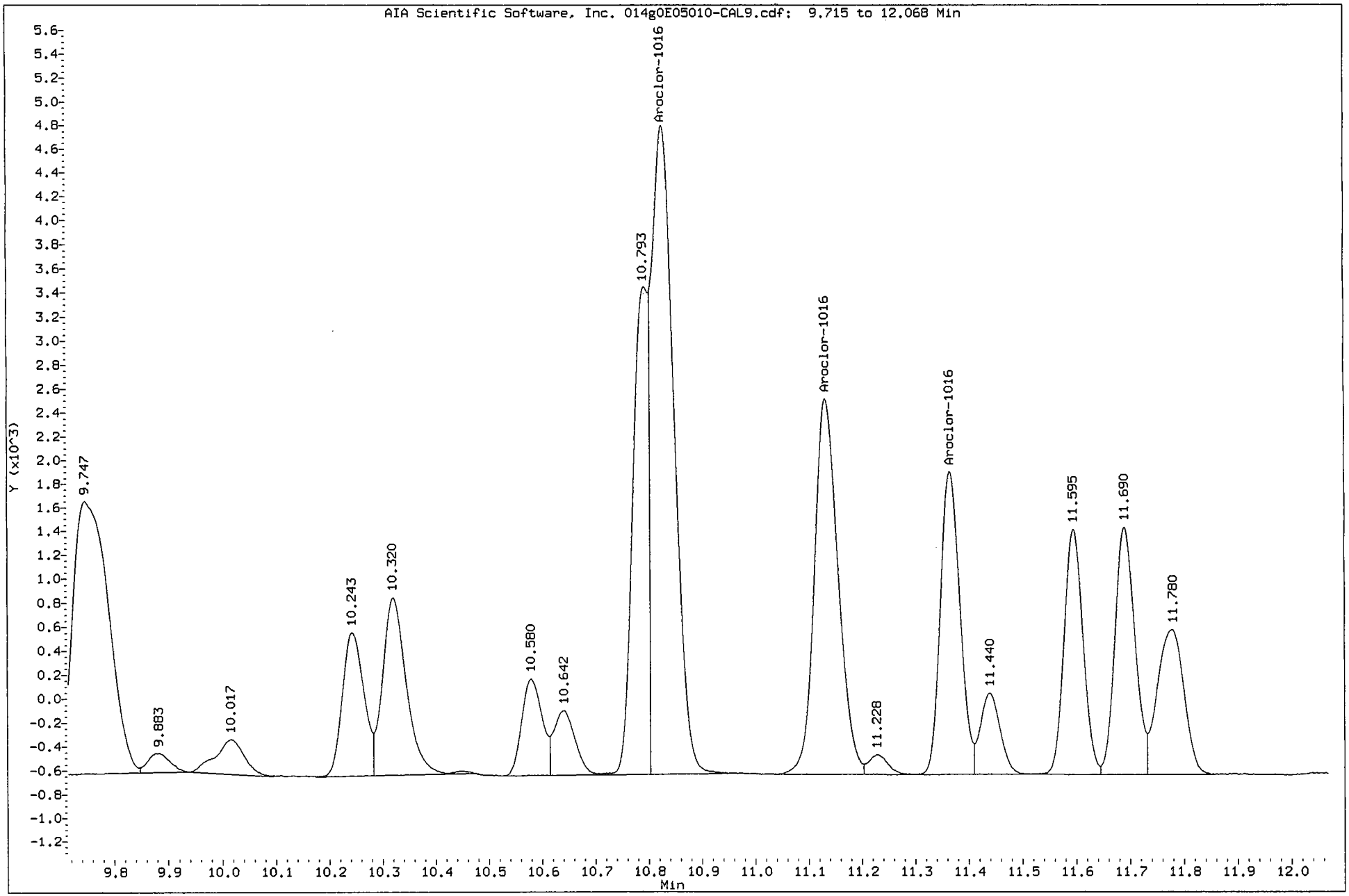
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.60		10859					
14.71		2390					
14.74		3027					
14.94	14.87 15.01	15713	21767	Aroclor-1260 Peak 1	0.800000	19641	
15.01		1405					
15.09		358					
15.24		4888					
15.38	15.31 15.45	27558	36912	Aroclor-1260 Peak 2	0.800000	34446	
15.72		21556					
15.94		2236					
16.01		655					
16.09		11327					
16.14		19523					
16.24		930					
16.33	16.26 16.40	21404	28538	Aroclor-1260 Peak 3	0.800000	26755	
16.44		10702					
16.68		4262					
16.89		1250					
16.95	16.88 17.02	17532	23367	Aroclor-1260 Peak 4	0.800000	21914	
17.10		9484					
17.16		1205					
17.21		6414					
17.32		4227					
17.47	17.40 17.54	41779	54848	Aroclor-1260 Peak 5	0.800000	52224	
17.61		1023					
17.74		1655					
18.10		699					
18.24		27684					
18.32		6238					
18.36		5512					
18.74		531					
18.85		477					
19.05		321					
19.11		4444					
19.43		10206					
19.51		522					
20.12		2450					
20.67	20.60 20.74	26593	358404	Decachlorobiphenyl	0.080000	330700	

Manually Integrated Peaks



Start: 10.80 Stop: 10.95

Data File: /chem/tracegc84.i/g100505_2C.b/014g0E05010-CAL9.d/014g0E05010-CAL9.cdf
Injection Date: 05-MAY-2010 21:53
Instrument: tracegc84.i
Client Sample ID: AR16604GA



Data File: /chem/tracegc84.i/g100505_2C.b/015g0E05010-CALA.d

Date : 05-MAY-2010 22:22

Client ID: AR16605GA

Sample Info: 0E05010-CALA

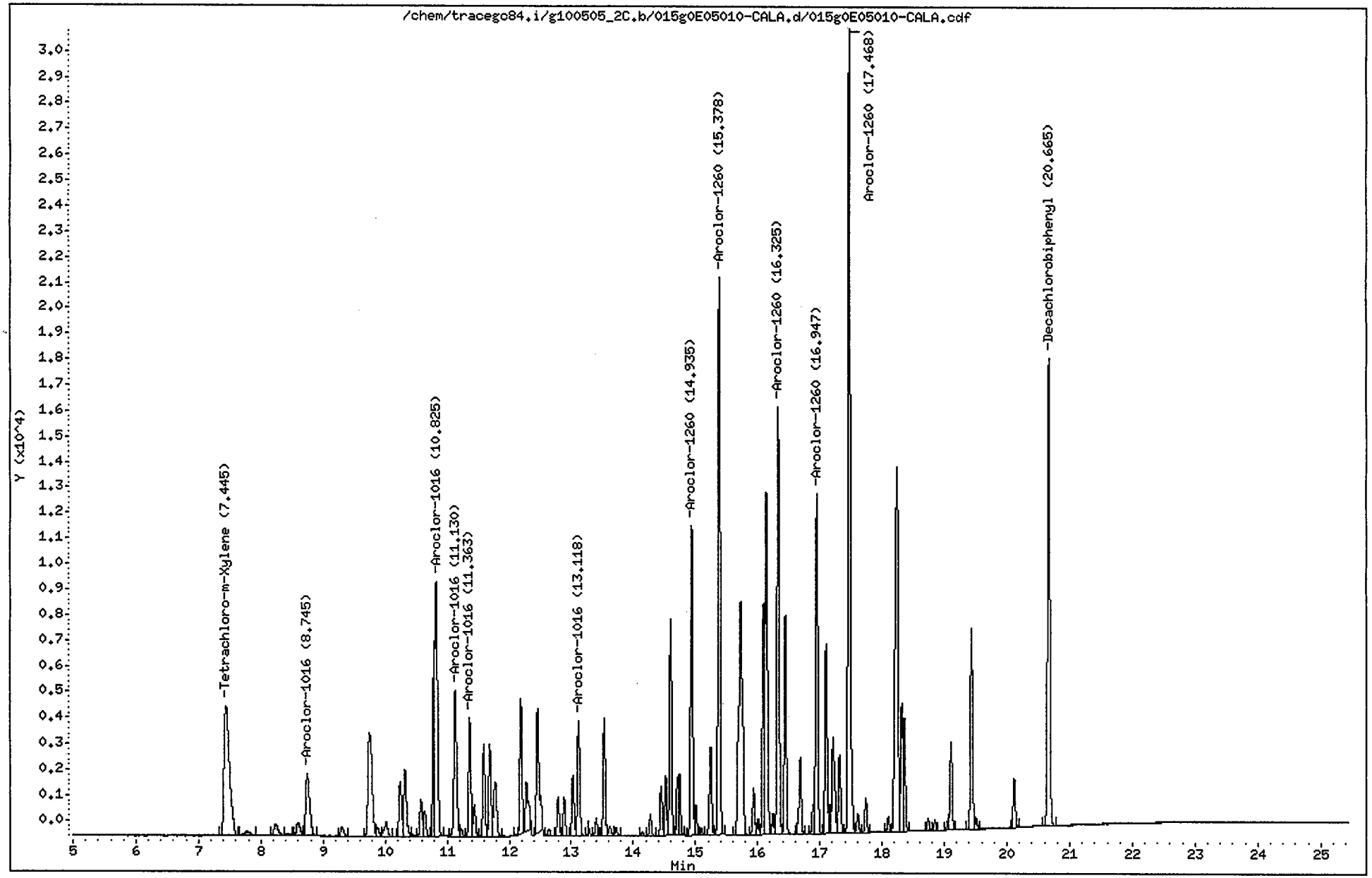
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: System

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-CALA Client Smp Id : AR16605GA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 05-MAY-2010 22:22 Inst ID : TRACEGC84
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16605GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.37			5663					
2.33			139					
7.44	7.38	7.52	31075	407875	Tetrachloro-m-Xylene	0.080000	400375	
7.78			1073					
8.24			1934					
8.43			254					
8.60			2036					
8.74	8.68	8.82	10625	7292	Aroclor-1016 Peak 1	1.600000	6640.000	
9.30			1316					
9.75			19283					
9.88			1147					
10.02			2278					
10.24			6232					
10.32			8509					
10.45			196					
10.58			3958					
10.64			2755					
10.79			12711					
10.82	10.76	10.90	30306	20647	Aroclor-1016 Peak 2	1.600000	18941	
11.13	11.06	11.20	17619	12384	Aroclor-1016 Peak 3	1.600000	11011	
11.23			739					
11.36	11.30	11.44	11794	8199	Aroclor-1016 Peak 4	1.600000	7371.250	
11.44			3198					
11.59			8953					
11.69			9588					
11.77			7576					
12.10			113					
12.19			12501					
12.28			6489					
12.46			14835					
12.64			678					
12.79			3779					
12.88			3591					
13.03			5615					
13.12	13.05	13.19	11693	8243	Aroclor-1016 Peak 5	1.600000	7308.125	
13.28			316					
13.40			1590					
13.53			10625					
13.62			1033					
13.72			743					
14.14			330					
14.27			1902					

CompuChem

Lab Smp Id : 0E05010-CALA Client Smp Id : AR16605GA
Sample Type : INITIAL CAL: Level 5 Sublist : AR1660
Inj Date : 05-MAY-2010 22:22 Inst ID :
Operator : System
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR16605GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.45		4542					
14.52		5284					
14.60		19358					
14.71		4443					
14.74		5253					
14.94	14.87 15.01	27885	21767	Aroclor-1260 Peak 1	1.600000	17428	
15.00		2532					
15.09		591					
15.24		8687					
15.38	15.31 15.45	49473	36912	Aroclor-1260 Peak 2	1.600000	30921	
15.72		38912					
15.93		4213					
16.00		1306					
16.09		20335					
16.14		35468					
16.24		1838					
16.32	16.26 16.40	38828	28538	Aroclor-1260 Peak 3	1.600000	24267	
16.44		19607					
16.68		7784					
16.89		2339					
16.95	16.88 17.02	31541	23367	Aroclor-1260 Peak 4	1.600000	19713	
17.10		16989					
17.16		2224					
17.21		11717					
17.32		7767					
17.47	17.40 17.54	75803	54848	Aroclor-1260 Peak 5	1.600000	47376	
17.61		1753					
17.74		3059					
18.10		1282					
18.24		49848					
18.32		11497					
18.36		9672					
18.74		1018					
18.85		871					
19.05		603					
19.11		8060					
19.43		18280					
19.51		972					
20.12		4454					
20.66	20.60 20.74	46774	358404	Decachlorobiphenyl	0.160000	314119	

Data File: /chem/tracegc84.i/g100505_2C.b/016g0E05010-ARC3.d

Date : 05-MAY-2010 22:50

Client ID: AR12213GA

Instrument: tracegc84.i

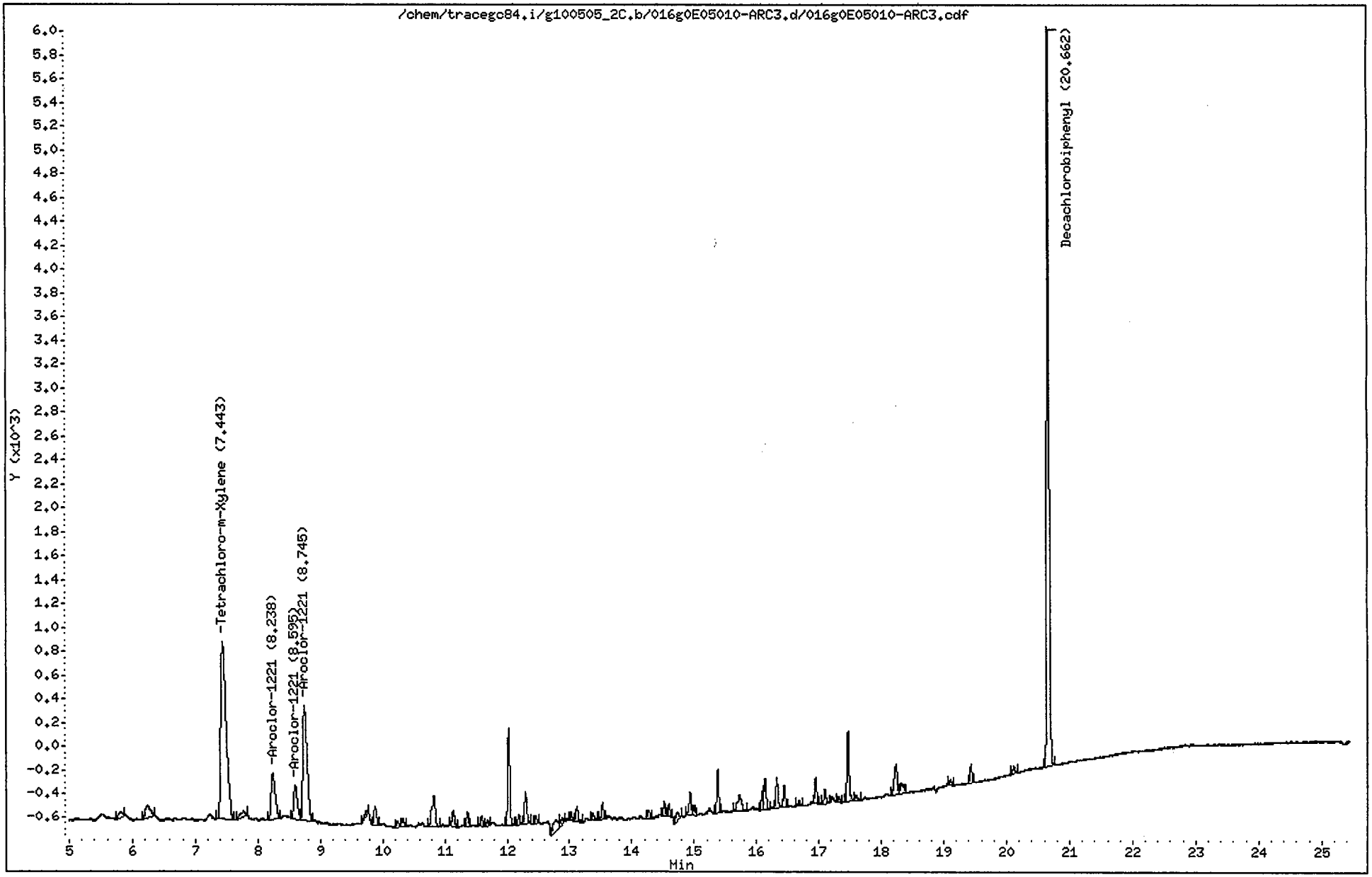
Sample Info: 0E05010-ARC3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC3 Client Smp Id : AR12213GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 05-MAY-2010 22:50 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12213GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.37			77387					
5.81			218					
6.24			662					
7.44	7.38	7.52	8924	407875	Tetrachloro-m-Xylene	0.020000	409850	
7.77			260					
8.24	8.17	8.31	1837	4590	Aroclor-1221 Peak 2	0.400000	4590.000	
8.60	8.53	8.67	1184	2958	Aroclor-1221 Peak 3	0.400000	2957.500	
8.74	8.67	8.81	4566	11412	Aroclor-1221 Peak 4	0.400000	11413	
9.74			154					
9.88			484					
10.23			112					
10.32			175					
10.82			1082					
11.13			396					
11.36			293					
11.59			190					
11.69			96					
12.03			1892					
12.19			184					
12.29			691					
12.46			138					
12.79			562					
12.89			187					
13.03			150					
13.12			338					
13.38			175					
13.53			321					
14.27			171					
14.52			264					
14.60			237					
14.73			278					
14.93			454					
15.01			194					
15.37			779					
15.72			599					
16.09			370					
16.13			685					
16.32			602					
16.44			452					
16.68			101					
16.95			482					
17.10			274					

CompuChem

Lab Smp Id : 0E05010-ARC3 Client Smp Id : AR12213GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1221
Inj Date : 05-MAY-2010 22:50 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12213GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
17.31		121					
17.46		1371					
17.59		150					
18.23		848					
18.31		317					
19.11		109					
19.43		345					
20.12		160					
20.66	20.60 20.74	15856	358404	Decachlorobiphenyl	0.040000	359150	

Data File: /chem/tracegc84.i/g100505_2C.b/017g0E05010-ARC4.d

Date : 05-MAY-2010 23:19

Client ID: AR12323GA

Instrument: tracegc84.i

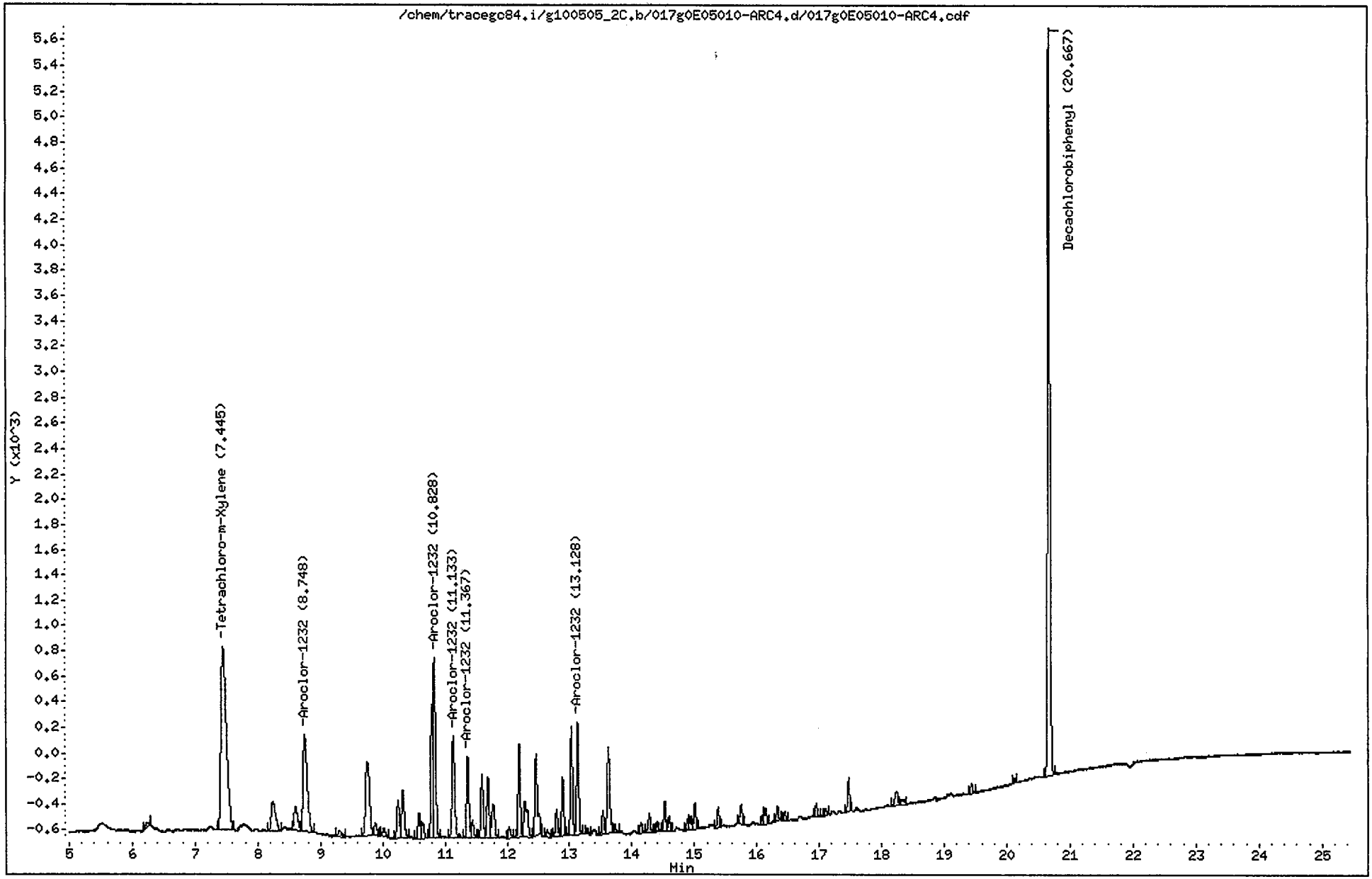
Sample Info: 0E05010-ARC4

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC4 Client Smp Id : AR12323GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 05-MAY-2010 23:19 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12323GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.24			123					
1.38			2506					
1.68			4950					
6.25			140					
7.44	7.38	7.52	8612	407875	Tetrachloro-m-Xylene	0.020000	409850	
8.24			1111					
8.60			775					
8.75	8.68	8.82	3437	8592	Aroclor-1232 Peak 1	0.400000	8592.500	
9.31			193					
9.75			2671					
9.88			267					
10.02			169					
10.24			838					
10.32			1127					
10.58			516					
10.64			347					
10.80			2042					
10.83	10.76	10.90	4082	10202	Aroclor-1232 Peak 2	0.400000	10203	
11.13	11.06	11.20	2476	6190	Aroclor-1232 Peak 3	0.400000	6190.000	
11.37	11.30	11.44	1609	4020	Aroclor-1232 Peak 4	0.400000	4020.000	
11.44			355					
11.60			1184					
11.69			1223					
11.78			908					
12.03			216					
12.19			1739					
12.28			1144					
12.46			1868					
12.65			152					
12.79			530					
12.89			1068					
13.03			1991					
13.13	13.06	13.20	2089	5220	Aroclor-1232 Peak 5	0.400000	5220.000	
13.29			111					
13.53			450					
13.62			2031					
13.72			144					
14.14			208					
14.28			371					
14.40			147					
14.52			532					
14.60			265					

CompuChem

Lab Smp Id : 0E05010-ARC4 Client Smp Id : AR12323GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1232
Inj Date : 05-MAY-2010 23:19 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12323GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
14.89		201					
14.94		252					
15.01		453					
15.38		337					
15.75		417					
16.09		194					
16.14		306					
16.33		244					
16.45		171					
16.95		237					
17.10		130					
17.47		553					
18.24		417					
18.32		184					
19.44		174					
20.12		95					
20.67	20.60 20.74	14824	358404	Decachlorobiphenyl	0.040000	359150	

Data File: /chem/tracegc84.i/g100505_2C.b/018g0E05010-ARC5.d

Date : 05-MAY-2010 23:48

Client ID: AR12423GA

Instrument: tracegc84.i

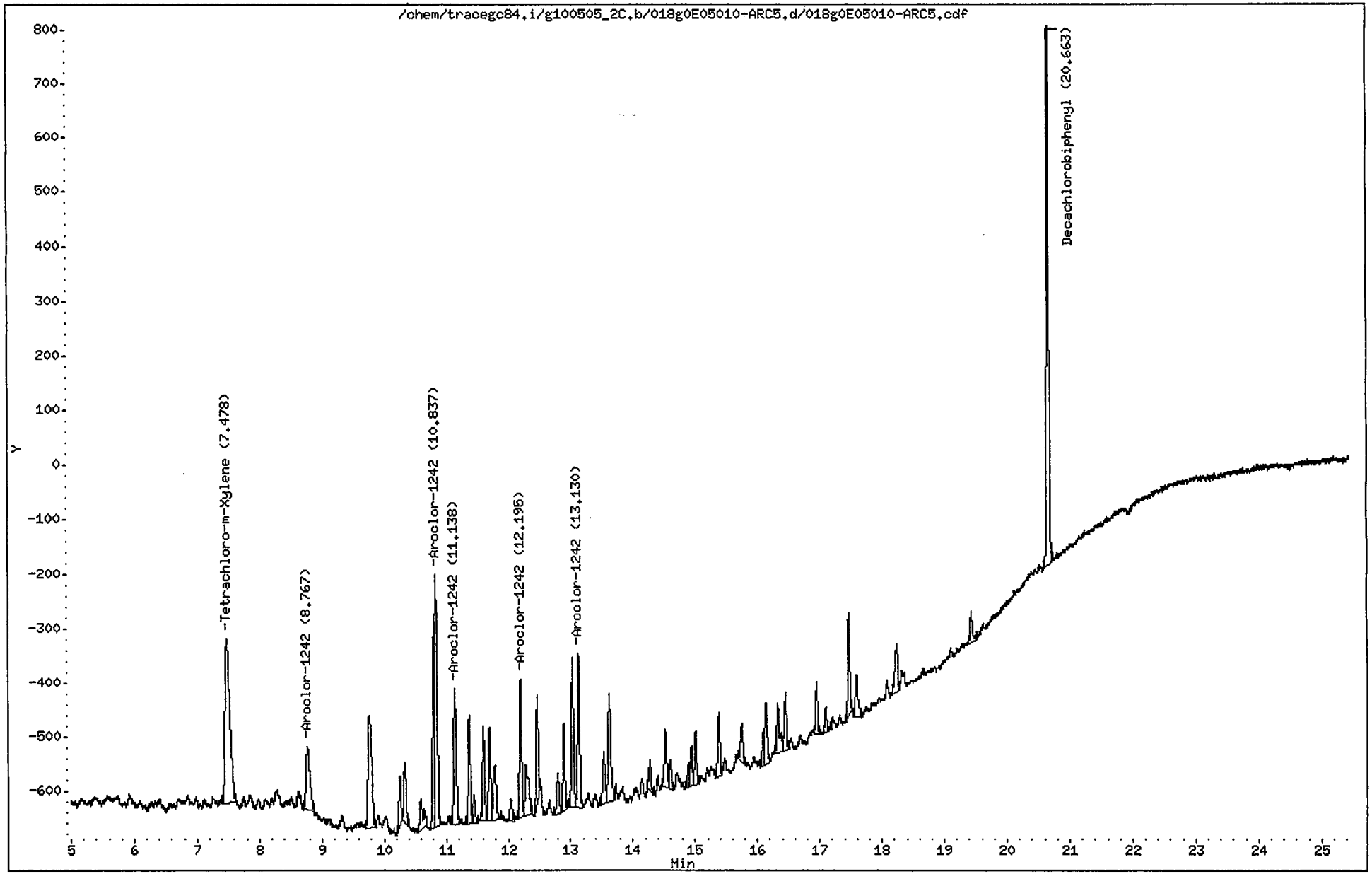
Sample Info: 0E05010-ARC5

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC5 Client Smp Id : AR12423GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 05-MAY-2010 23:48 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12423GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.54			716					
7.48	7.38	7.52	1629	407875	Tetrachloro-m-Xylene	0.020000	409850	
8.77	8.70	8.84	506	1262	Aroclor-1242 Peak 1	0.400000	1262.500	
9.76			910					
10.26			227					
10.34			272					
10.60			209					
10.80			693					
10.84	10.77	10.91	1281	3202	Aroclor-1242 Peak 2	0.400000	3202.500	
11.14	11.07	11.21	708	1770	Aroclor-1242 Peak 3	0.400000	1770.000	
11.37			481					
11.45			126					
11.60			392					
11.70			408					
11.78			334					
12.04			107					
12.20	12.13	12.27	596	1488	Aroclor-1242 Peak 4	0.400000	1487.500	
12.28			387					
12.46			413					
12.79			189					
12.89			360					
13.03			616					
13.13	13.06	13.20	668	1668	Aroclor-1242 Peak 5	0.400000	1667.500	
13.53			265					
13.62			600					
14.28			144					
14.52			267					
14.60			122					
14.89			99					
14.94			168					
15.01			222					
15.38			256					
15.75			195					
16.10			137					
16.14			291					
16.33			277					
16.45			256					
16.95			203					
17.09			116					
17.47			406					
17.59			213					
18.24			290					

CompuChem

Lab Smp Id : 0E05010-ARC5 Client Smp Id : AR12423GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1242
Inj Date : 05-MAY-2010 23:48 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12423GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
19.43		147					
20.66	20.60 20.74	2419	358404	Decachlorobiphenyl	0.040000	359150	

Data File: /chem/tracegc84.i/g100505_2C.b/019g0E05010-ARC6.d

Date : 06-MAY-2010 00:17

Client ID: AR12483GA

Instrument: tracegc84.i

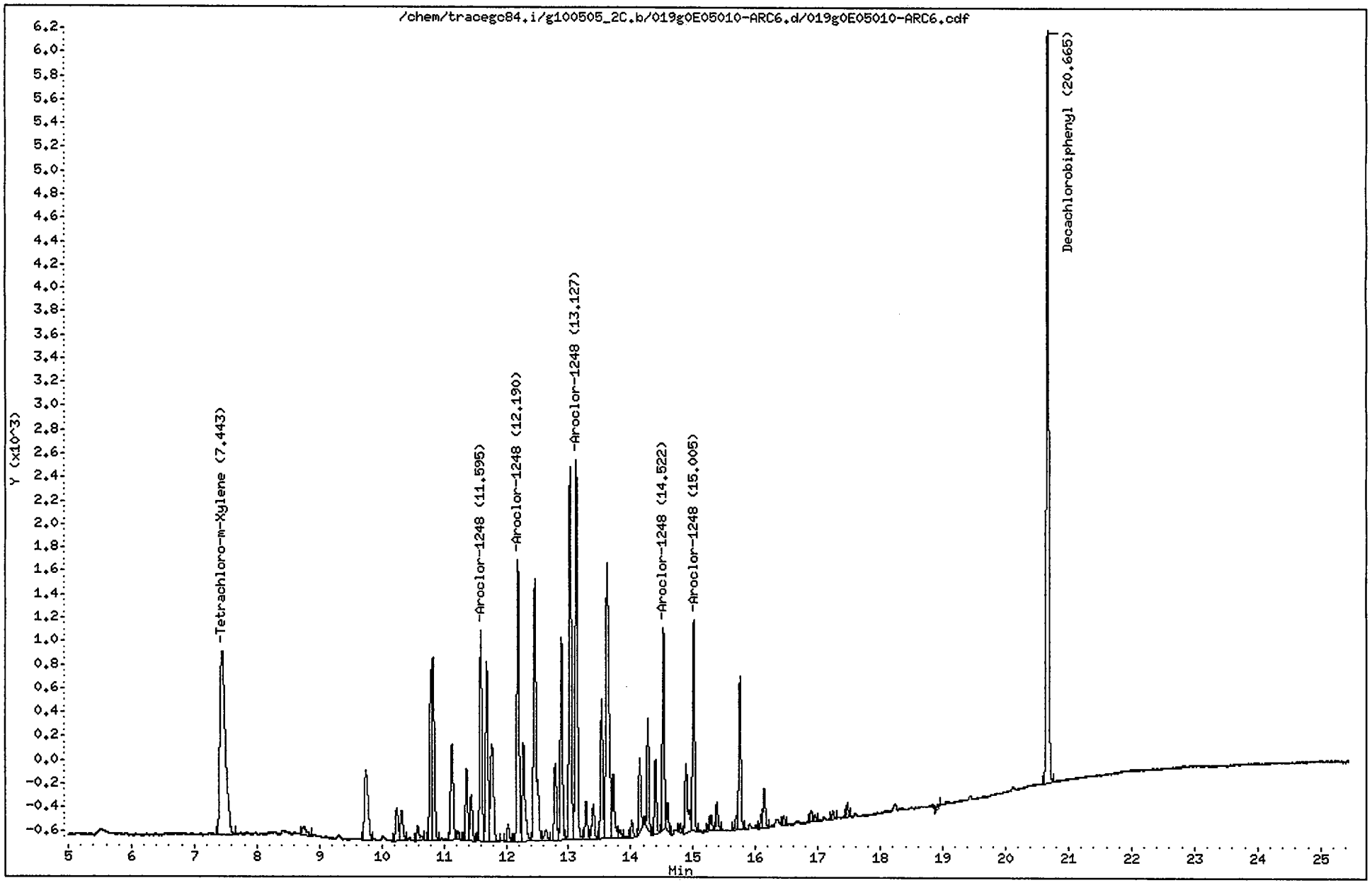
Sample Info: 0E05010-ARC6

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC6 Client Smp Id : AR12483GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 06-MAY-2010 00:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12483GA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.37			61837					
7.44	7.38	7.52	9410	407875	Tetrachloro-m-Xylene	0.020000	409850	
8.74			341					
9.75			2482					
10.24			791					
10.32			773					
10.58			387					
10.79			3186					
10.83			4231					
11.13			2440					
11.23			176					
11.37			1542					
11.44			1025					
11.60	11.53	11.67	4366	10912	Aroclor-1248 Peak 1	0.400000	10913	
11.69			3928					
11.77			2891					
12.03			377					
12.19	12.12	12.26	5750	14375	Aroclor-1248 Peak 2	0.400000	14375	
12.28			2435					
12.46			6711					
12.64			331					
12.79			1708					
12.89			4032					
13.03			7641					
13.13	13.06	13.20	8123	20308	Aroclor-1248 Peak 3	0.400000	20307	
13.29			783					
13.40			824					
13.53			2794					
13.62			8183					
13.72			1453					
13.82			195					
14.02			346					
14.14			1430					
14.27			1977					
14.40			1442					
14.52	14.45	14.59	3720	9298	Aroclor-1248 Peak 4	0.400000	9297.500	
14.59			485					
14.79			149					
14.88			1849					
15.00	14.93	15.07	3994	9982	Aroclor-1248 Peak 5	0.400000	9982.500	
15.25			96					
15.29			304					

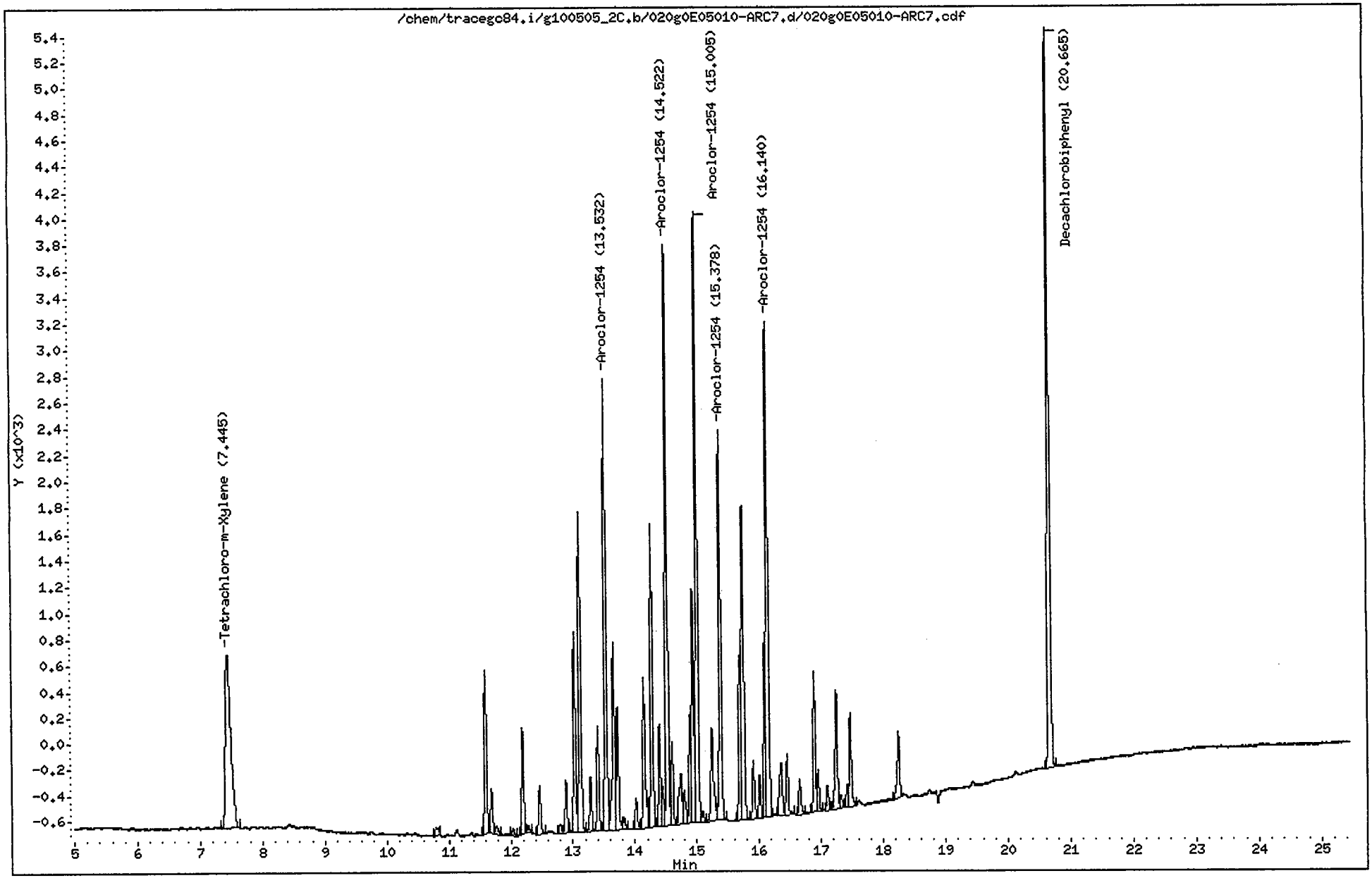
CompuChem

Lab Smp Id : 0E05010-ARC6 Client Smp Id : AR12483GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1248
Inj Date : 06-MAY-2010 00:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12483GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.38		565					
15.69		237					
15.75		3058					
16.09		208					
16.14		869					
16.45		170					
16.89		199					
16.95		119					
17.24		176					
17.47		221					
18.95		113					
20.66	20.60 20.74	16283	358404	Decachlorobiphenyl	0.040000	359150	

Data File: /chem/tracegc84.i/g100505_2C.b/020g0E05010-ARC7.d
Date : 06-MAY-2010 00:45
Client ID: AR12543GA
Sample Info: 0E05010-ARC7
Volume Injected (uL): 1.0
Column phase: olpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ARC7 Client Smp Id : AR12543GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 06-MAY-2010 00:45 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12543GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.36		2202					
1.68		242					
7.44	7.38 7.52	8109	407875	Tetrachloro-m-Xylene	0.020000	409850	
10.79		231					
11.60		3043					
11.69		782					
11.77		166					
12.03		142					
12.19		1879					
12.28		126					
12.46		929					
12.79		195					
12.89		954					
13.03		3634					
13.12		6091					
13.29		993					
13.40		1816					
13.53	13.46 13.60	8016	20038	Aroclor-1254 Peak 1	0.400000	20037	
13.66		3921					
13.72		2277					
13.82		237					
14.02		574					
14.14		3006					
14.22		343					
14.27		5319					
14.40		1738					
14.45		629					
14.52	14.45 14.59	10210	25522	Aroclor-1254 Peak 2	0.400000	25523	
14.60		1430					
14.74		1362					
14.79		757					
14.89		1856					
14.94		4291					
15.00	14.93 15.07	10764	26908	Aroclor-1254 Peak 3	0.400000	26907	
15.09		181					
15.24		2263					
15.38	15.31 15.45	6963	17405	Aroclor-1254 Peak 4	0.400000	17405	
15.69		2663					
15.74		7096					
15.90		1055					
16.00		685					
16.09		2649					

CompuChem

Lab Smp Id : 0E05010-ARC7 Client Smp Id : AR12543GA
Sample Type : INITIAL CAL: Level 3 Sublist : AR1254
Inj Date : 06-MAY-2010 00:45 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : AR12543GA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.14	16.07 16.21	9829	24572	Aroclor-1254 Peak 5	0.400000	24573	
16.35		1342					
16.45		1204					
16.65		683					
16.89		2438					
16.95		693					
17.10		429					
17.24		2309					
17.32		235					
17.41		357					
17.47		1676					
18.24		1339					
20.66	20.60 20.74	14295	358404	Decachlorobiphenyl	0.040000	359150	

Data File: /chem/tracegc84.i/g100505_2C.b/021g0E05010-ICV1.d

Page 1

Date : 06-MAY-2010 01:14

Client ID: PESTCHKGA

Instrument: tracegc84.i

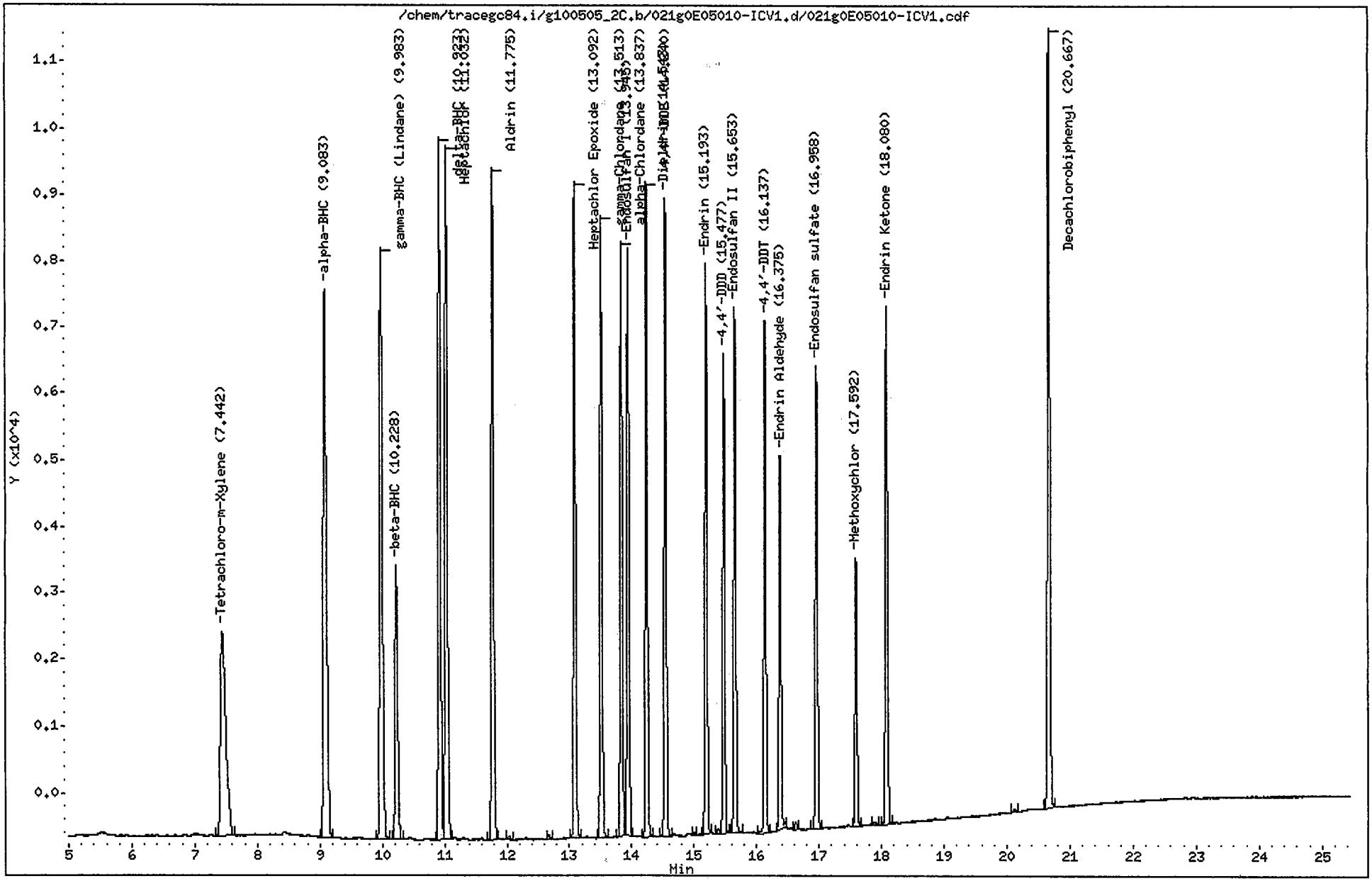
Sample Info: 0E05010-ICV1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ICV1 Client Smp Id : PESTCHKGA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 06-MAY-2010 01:14 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : INDAchek
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : PESTCHKGA

RT	AREA
1.37	5654
2.32	95
7.44	18386
9.08	29590
9.98	27392
10.23	11628
10.92	26515
11.03	28406
11.78	25625
12.04	141
12.68	168
13.09	22872
13.51	21453
13.84	20215
13.95	20572
14.24	21390
14.54	21739
15.01	98
15.19	19393
15.38	168
15.48	15418
15.65	18220
16.14	16941
16.37	13209
16.63	242
16.96	16018
17.59	8939
17.89	115
18.08	18379
20.12	115
20.67	29680

Data File: /chem/tracegc84.i/g100505_2C.b/022g0E05010-ICV2.d

Page 1

Date : 06-MAY-2010 01:43

Client ID: PCBCHKGA

Instrument: tracegc84.i

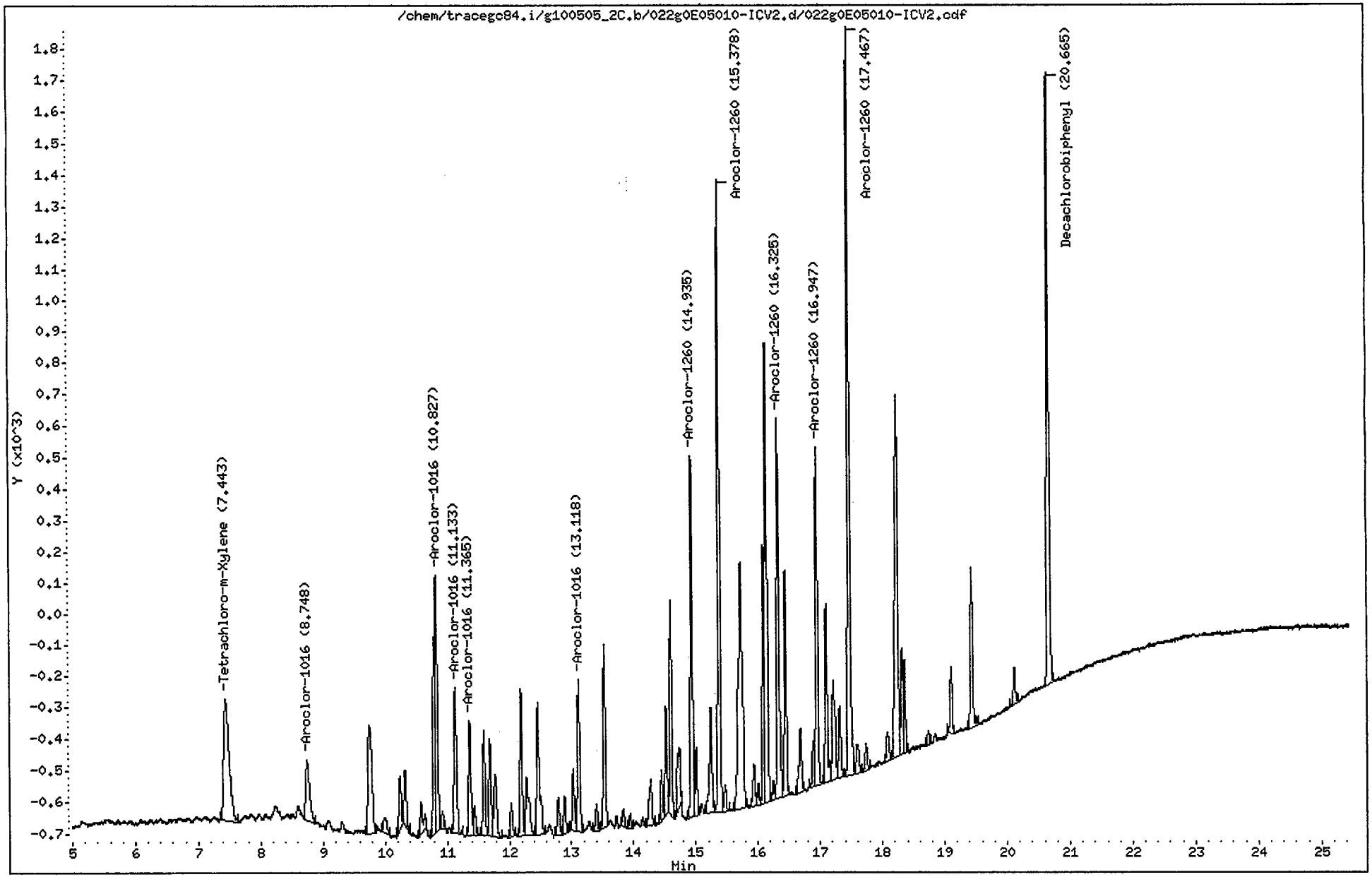
Sample Info: 0E05010-ICV2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E05010-ICV2 Client Smp Id : PCBCHKGA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 06-MAY-2010 01:43 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : PCBCHKGA

RT	AREA
1.34	1552
2.32	106
7.44	2329
8.75	838
9.75	1554
10.00	208
10.24	430
10.32	458
10.58	347
10.79	1199
10.83	2331
10.92	119
11.13	1371
11.37	934
11.44	223
11.60	789
11.69	771
11.78	677
12.03	252
12.19	1100
12.28	715
12.46	1293
12.79	299
12.89	282
13.03	454
13.12	1243
13.40	197
13.53	1353
13.83	130
13.94	93
14.27	478
14.45	341
14.52	777
14.60	1494
14.71	672
14.94	2633
15.01	457
15.24	956
15.38	4476
15.47	193
15.72	3534
15.94	328
16.00	140
16.09	1764
16.14	3835

CompuChem

Lab Smp Id : 0E05010-ICV2 Client Smp Id : PCBCHKGA
Sample Type : QCCHECK Sublist : AR1660
Inj Date : 06-MAY-2010 01:43 Inst ID :
Operator : AHW Spike Sublist : AR1660OVchk
Method : /chem/tracegc84.i/g100505_2C.b/8081A_clpest2v6.m
Misc. Info : PCBCHKGA

RT	AREA
16.24	126
16.32	2893
16.44	1601
16.68	578
16.89	309
16.95	2483
17.10	1395
17.21	1063
17.32	551
17.47	5644
17.60	283
17.74	210
18.08	258
18.24	3787
18.32	725
18.36	635
18.74	95
19.11	484
19.43	1214
20.12	284
20.66	4845

Manual Integrations

SDG:

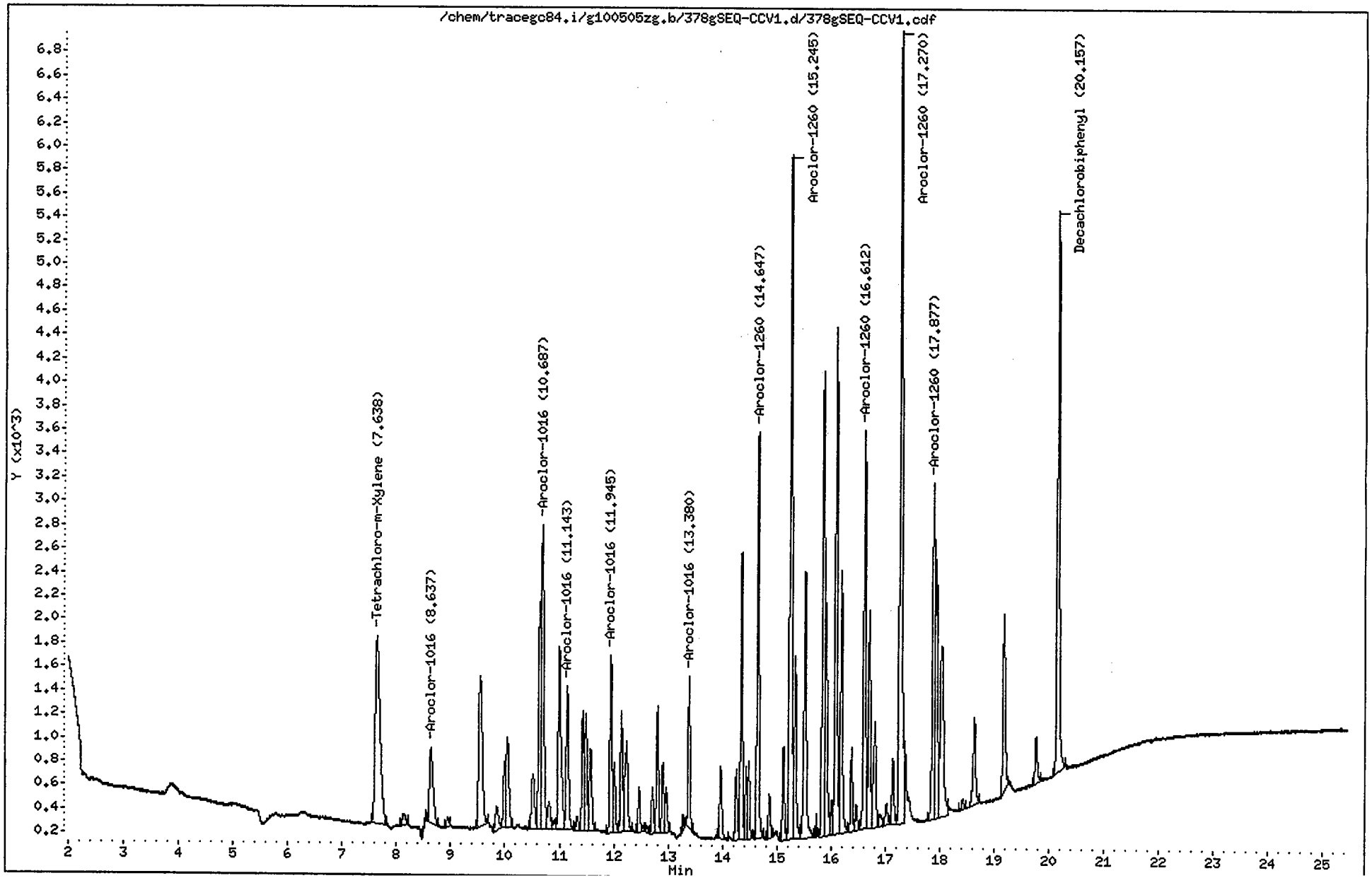
Sample(s)	0E05010-ARC5	0E05010-CAL6	0E05010-CAL8	0E05010-CAL9		
Compound						
Aroclor 1221						
Aroclor 1232						
Aroclor 1016		x	x	x		
Aroclor 1242	x					
Aroclor 1248						
Aroclor 1254						
Aroclor 1260						
Tetrachloro-m-xylene						
Decachlorbiphenyl						

"X" Denotes a manual integration for the compound

Manual Integrations							
SDG:							
Sample(s)	0E05010-ARC1						
Compound							
alpha-BHC							
gamma-BHC							
beta-BHC							
delta-BHC							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
gamma-Chlordane							
alpha-Chlordane							
Endosulfan I							
4,4'-DDE							
Dieldrin							
Endrin							
4,4'-DDD							
Endosulfan II							
4,4'-DDT							
Endrin Aldehyde							
Endosulfan sulfate							
Methoxychlor							
Endrin Ketone							
Toxaphene	x						
Technical Chordane							
Tetrachloro-m-xylene							
Decachlorbiphenyl							
"X" Denotes a manual integration for the compound							

Data File: /chem/tracegc84.i/g100505zg.b/378gSEQ-CCV1.d
Date : 19-MAY-2010 17:17
Client ID: AR16603IR
Sample Info: SEQ-CCV1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : AR16603IR
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 19-MAY-2010 17:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg.b/8081A_clpestv6.m
Misc. Info : AR16603IR

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS
1.43		36193							
7.64	7.59 7.73	9773	511075	Tetrachloro-m-Xylene	0.020000	488655	4.4	20.0	
8.14		404							
8.53		173							
8.64	8.59 8.73	2945	7539	Aroclor-1016 Peak 1	0.400000	7360.000	2.4	20.0	
8.95		225							
9.54		5974							
9.85		769							
9.99		1446							
10.04		2660							
10.51		1763							
10.63		4776							
10.69	10.64 10.78	8805	22169	Aroclor-1016 Peak 2	0.400000	22013	0.7	20.0	
10.81		756							
10.91		225							
10.99		5643							
11.14	11.09 11.23	3621	9219	Aroclor-1016 Peak 3	0.400000	9050.000	1.8	20.0	
11.33		343							
11.43		2592							
11.48		2738							
11.57		2185							
11.94	11.90 12.04	3974	10369	Aroclor-1016 Peak 4	0.400000	9932.500	4.2	20.0	
12.01		1583							
12.14		2644							
12.23		2993							
12.47		1067							
12.62		130							
12.71		954							
12.80		2676							
12.90		1532							
12.96		985							
13.27		241							
13.38	13.33 13.47	3018	8754	Aroclor-1016 Peak 5	0.400000	7545.000	13.8	20.0	
13.97		1779							
14.25		1460							
14.35		6041							
14.44		1408							
14.48		1629							
14.65	14.60 14.74	8730	23830	Aroclor-1260 Peak 1	0.400000	21825	8.4	20.0	
14.86		963							
15.12		1971							
15.24	15.20 15.34	16877	47256	Aroclor-1260 Peak 2	0.400000	42190	10.7	20.0	

AHW
5/24/10

CompuChem

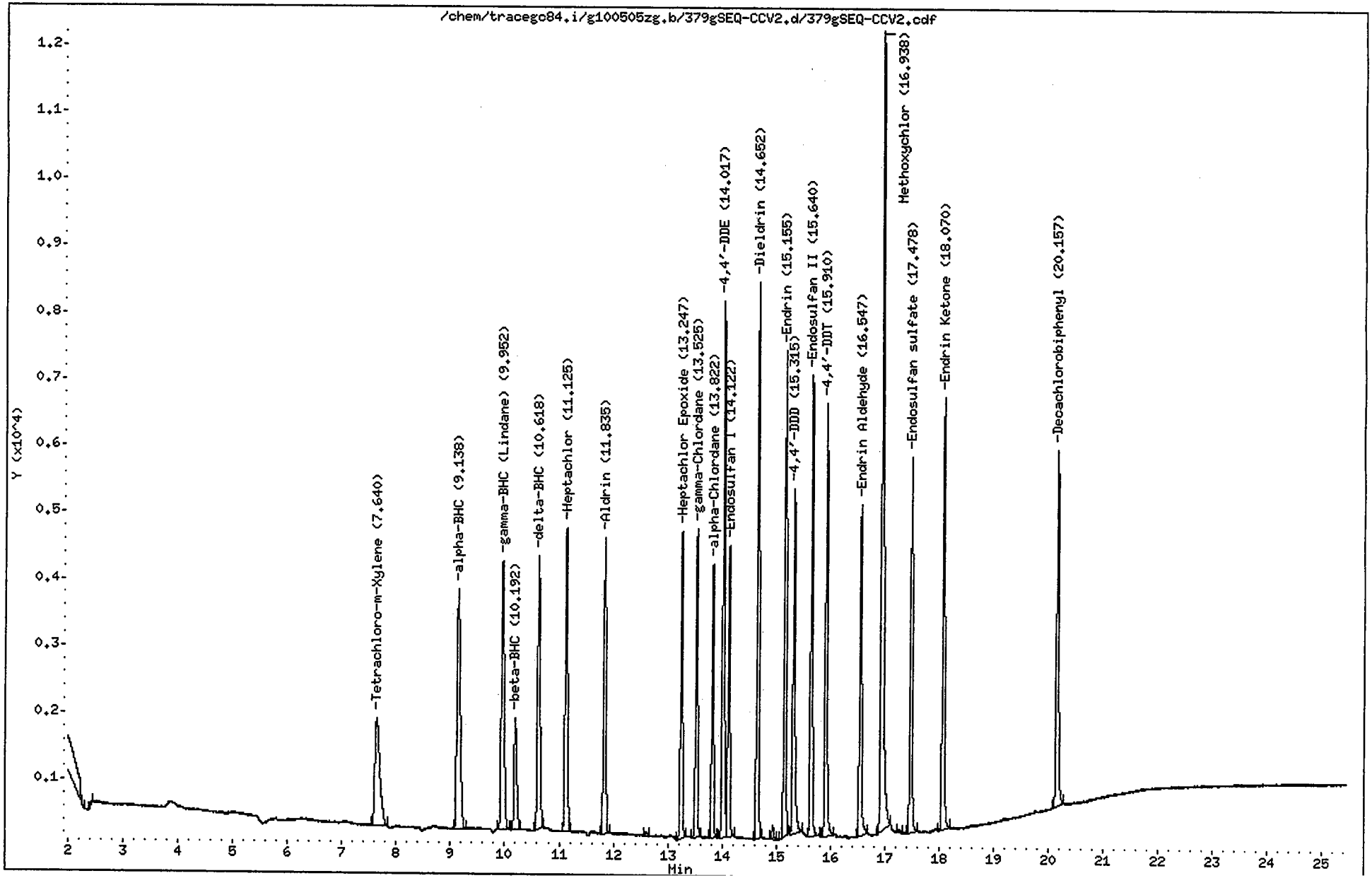
Lab Smp Id : SEQ-CCV1 Client Smp Id : AR16603IR
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 19-MAY-2010 17:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zg.b/8081A_clpestv6.m
Misc. Info : AR16603IR

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
15.34		4250								
15.52		7030								
15.73		165								
15.85		11060								
15.90		5523								
16.02		740								
16.08		11247								
16.18		6015								
16.38		1688								
16.46		553								
16.61	16.57 16.71	8983	24838	Aroclor-1260 Peak 3	0.400000	22455	9.6	20.0		
16.70		4942								
16.80		2995								
16.91		354								
17.02		577								
17.14		1481								
17.27	17.22 17.36	20600	57780	Aroclor-1260 Peak 4	0.400000	51500	10.9	20.0		
17.88	17.82 17.96	8190	26453	Aroclor-1260 Peak 5	0.400000	20473	22.6*	20.0	R	
17.93		6206								
18.03		6673								
18.42		249								
18.63		2379								
19.17		4455								
19.77		1076								
20.16	20.11 20.25	12969	372435	Decachlorobiphenyl	0.040000	324230	12.9	20.0		

Data File: /chem/tracegc84.i/g100505zg.b/379gSEQ-CCV2.d
Date : 19-MAY-2010 17:46
Client ID: INDC3IR
Sample Info: SEQ-CCV2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3IR
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 19-MAY-2010 17:46 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg.b/8081A_clpestv6.m
Misc. Info : INDC3IR

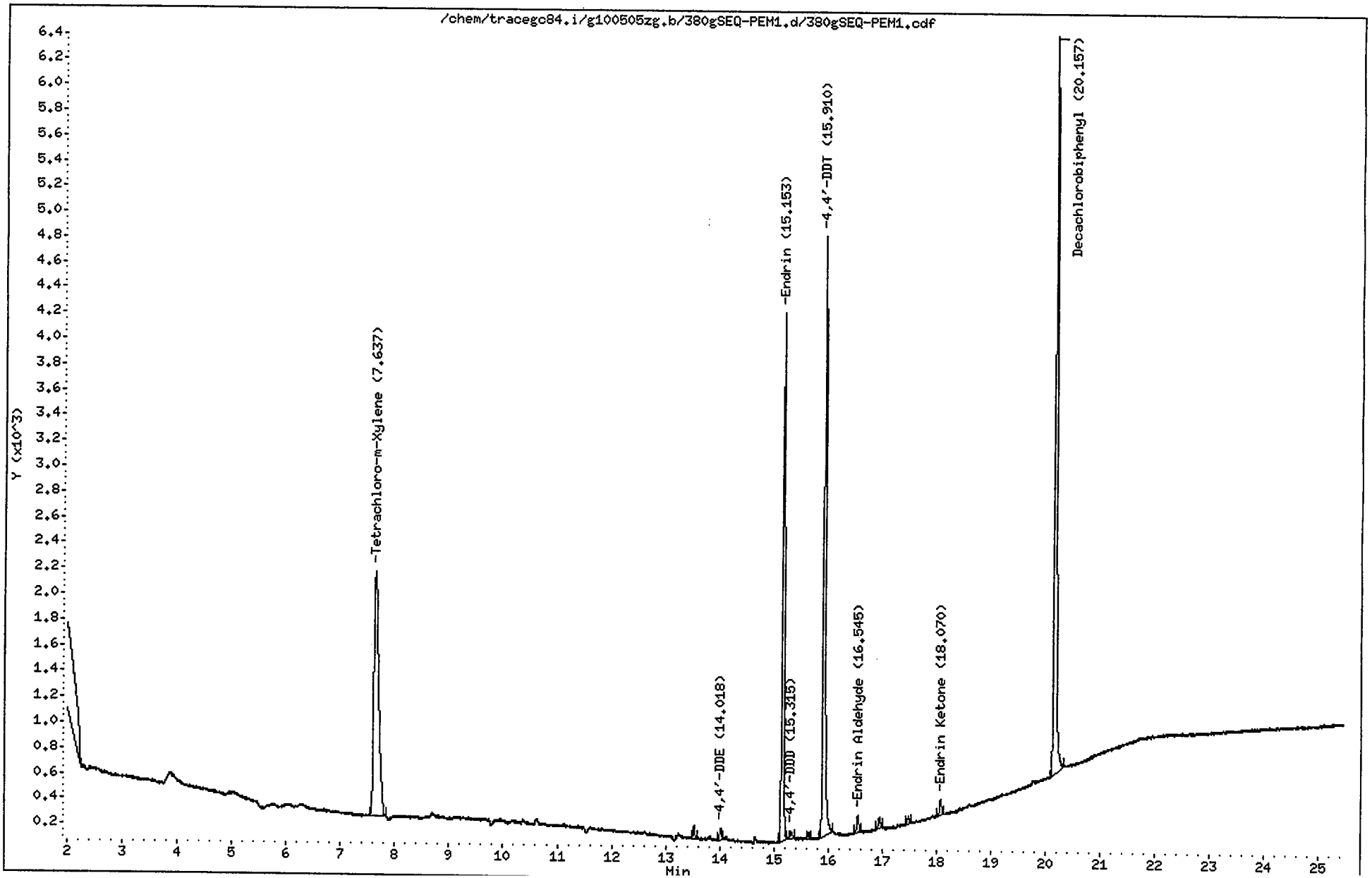
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.42			78158								
2.43			131								
7.64	7.59	7.73	10069	511075	Tetrachloro-m-Xylene	0.020000	503447	1.5	20.0		
9.14	9.09	9.23	15172	776175	alpha-BHC	0.020000	758615	2.3	20.0		
9.95	9.91	10.05	14258	725352	gamma-BHC (Lindane)	0.020000	712880	1.7	20.0		
10.19	10.15	10.29	5650	291225	beta-BHC	0.020000	282523	3.0	20.0		
10.62	10.57	10.71	12950	670705	delta-BHC	0.020000	647483	3.5	20.0		
11.12	11.08	11.22	13609	686315	Heptachlor	0.020000	680450	0.9	20.0		
11.84	11.79	11.93	12527	627382	Aldrin	0.020000	626350	0.2	20.0		
12.60			165								
13.25	13.20	13.34	11749	585410	Heptachlor Epoxide	0.020000	587450	-0.3	20.0		
13.52	13.48	13.62	11430	579092	gamma-Chlordane	0.020000	571520	1.3	20.0		
13.82	13.78	13.92	9967	502118	alpha-Chlordane	0.020000	498360	0.7	20.0		
14.02	13.97	14.11	19822	515756	4,4'-DDE	0.040000	495541	3.9	20.0		
14.12	14.08	14.22	11202	536925	Endosulfan I	0.020000	560088	-4.3	20.0		
14.65	14.61	14.75	20014	512808	Dieldrin	0.040000	500359	2.4	20.0		
14.94			494								
15.16	15.11	15.25	17638	445172	Endrin	0.040000	440943	1.0	20.0		
15.32	15.27	15.41	14046	381109	4,4'-DDD	0.040000	351153	7.9	20.0		
15.64	15.59	15.73	17211	440985	Endosulfan II	0.040000	430264	2.4	20.0		
15.91	15.86	16.00	16165	433059	4,4'-DDT	0.040000	404131	6.7	20.0		
16.55	16.50	16.64	12849	325624	Endrin Aldehyde	0.040000	321217	1.4	20.0		
16.94	16.89	17.03	34969	188501	Methoxychlor	0.200000	174845	7.2	20.0		
17.27			137								
17.48	17.44	17.58	14255	370954	Endosulfan sulfate	0.040000	356364	3.9	20.0		
18.07	18.03	18.17	16716	439015	Endrin Ketone	0.040000	417911	4.8	20.0		
20.16	20.11	20.25	14318	372435	Decachlorobiphenyl	0.040000	357938	3.9	20.0		

AHW
5/24/10

Data File: /chem/tracegc84.i/g100505zg.b/380gSEQ-PEM1.d
Date : 19-MAY-2010 18:15
Client ID: PEMIR
Sample Info: SEQ-PEM1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMIR
Sample Type : SAMPLE Sublist : PEM
Inj Date : 19-MAY-2010 18:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg.b/8081A_clpestv6.m
Misc. Info : PEMIR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.43			99677								
7.64	7.59	7.73	12041	511075	Tetrachloro-m-Xylene	0.023560	0.023560		119.0	43 - 135	
13.53			233								
14.02	13.97	14.11	222	515756	4,4'-DDE	0.000431	0.000431	0.020000			J
15.15	15.11	15.25	10102	445172	Endrin	0.022693	0.022693	0.020000			
15.32	15.27	15.41	163	381109	4,4'-DDD	0.000428	0.000428	0.020000			J
15.64			137								
15.91	15.86	16.00	12671	433059	4,4'-DDT	0.029260	0.029260	0.020000			
16.54	16.50	16.64	333	325624	Endrin Aldehyde	0.001022	0.001022	0.020000			J
16.94			228								
17.48			134								
18.07	18.03	18.17	325	439015	Endrin Ketone	0.000741	0.000741	0.020000			J
20.16	20.11	20.25	16034	372435	Decachlorobiphenyl	0.043051	0.043051		108.7	43 - 144	

AHW
5/24/10

Data File: /chem/tracegc84.i/g100505zg_2C.b/378gSEQ-CCV1.d

Date : 19-MAY-2010 17:17

Client ID: AR16603IR

Sample Info: SEQ-CCV1

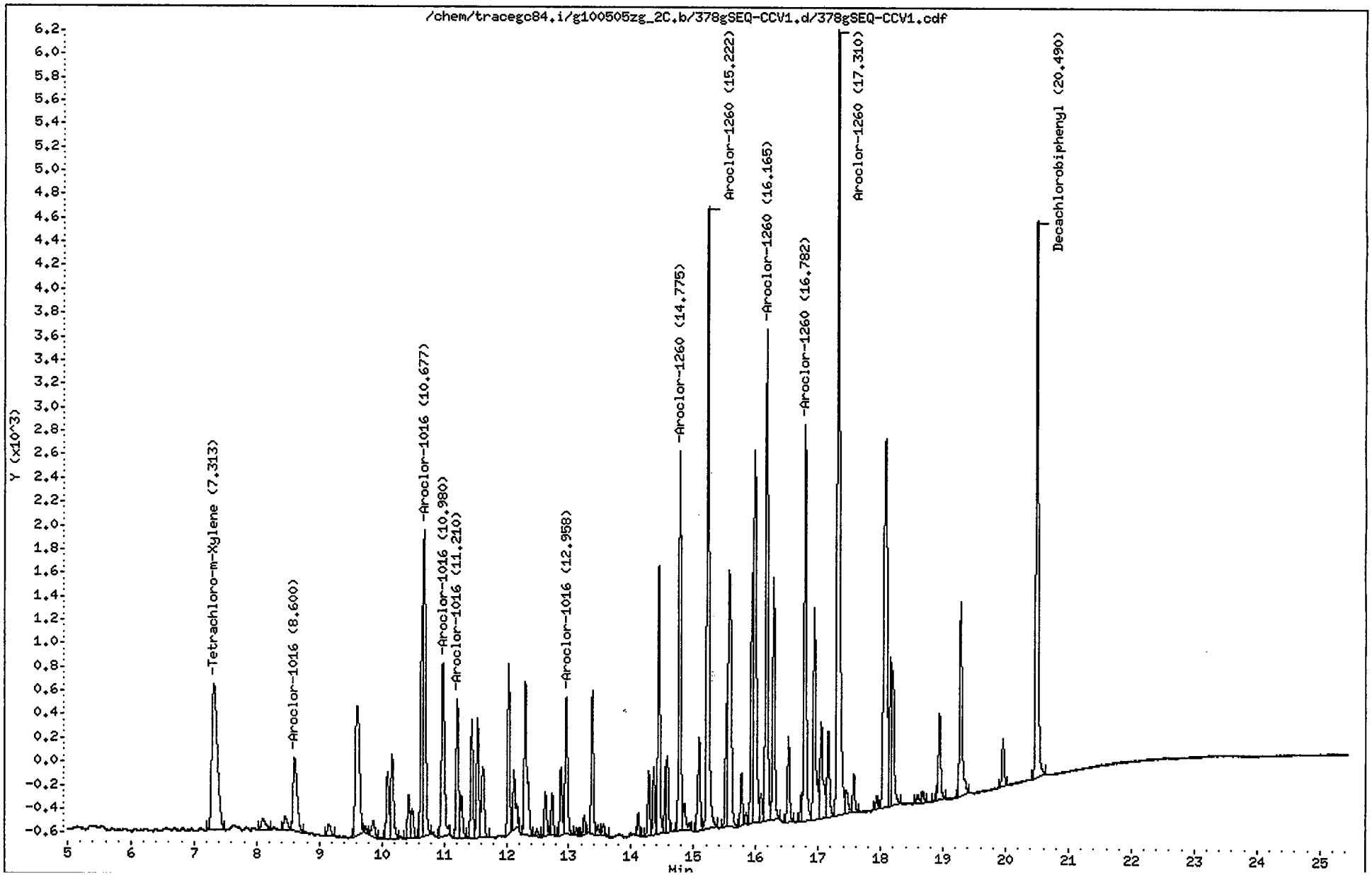
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : AR16603IR
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 19-MAY-2010 17:17 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603IR

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.23			116								
1.36			2384								
1.66			129								
7.31	7.29	7.43	7531	407875	Tetrachloro-m-Xylene	0.020000	376550	7.7	20.0		
8.11			504								
8.45			473								
8.60	8.58	8.72	2666	7292	Aroclor-1016 Peak 1	0.400000	6662.500	8.6	20.0		
9.15			360								
9.60			5065								
9.73			142								
9.86			489								
10.09			1574								
10.16			2230								
10.43			946								
10.49			708								
10.65			3870								
10.68	10.66	10.80	7920	20647	Aroclor-1016 Peak 2	0.400000	19800	4.1	20.0	M	≥M
10.98	10.96	11.10	4745	12384	Aroclor-1016 Peak 3	0.400000	11860	4.2	20.0		
11.21	11.14	11.28	3030	8199	Aroclor-1016 Peak 4	0.400000	7574.500	7.6	20.0		
11.28			970								
11.44			2482								
11.54			2622								
11.62			2008								
12.03			3356								
12.12			1478								
12.30			4210								
12.49			134								
12.62			926								
12.73			834								
12.87			1368								
12.96	12.94	13.08	3184	8243	Aroclor-1016 Peak 5	0.400000	7960.000	3.4	20.0		
13.12			135								
13.25			369								
13.37			2798								
13.46			242								
13.55			259								
14.11			407								
14.28			1252								
14.36			1303								
14.44			5312								
14.55			1150								
14.58			1383								

RM 5/26/10

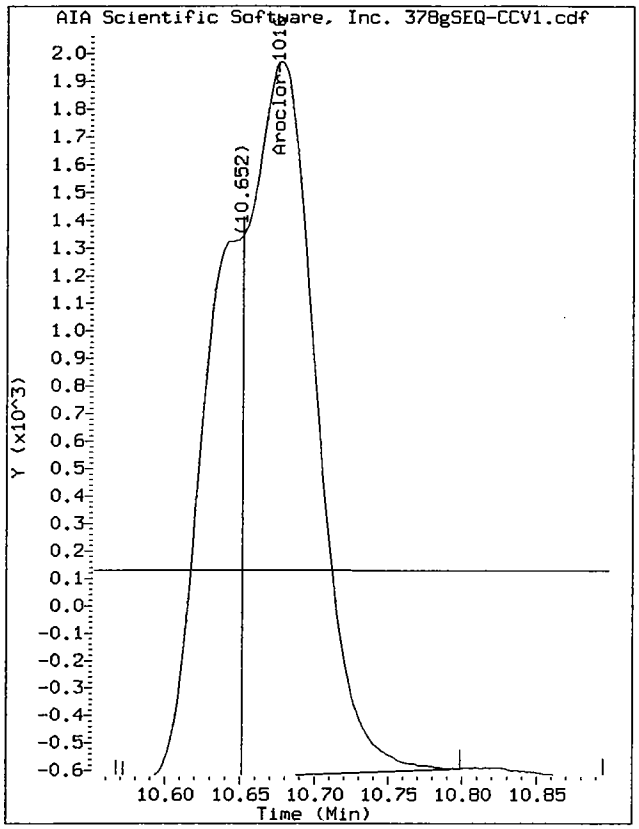
AHW 5/24/10

CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : AR16603IR
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 19-MAY-2010 17:17 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zg_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603IR

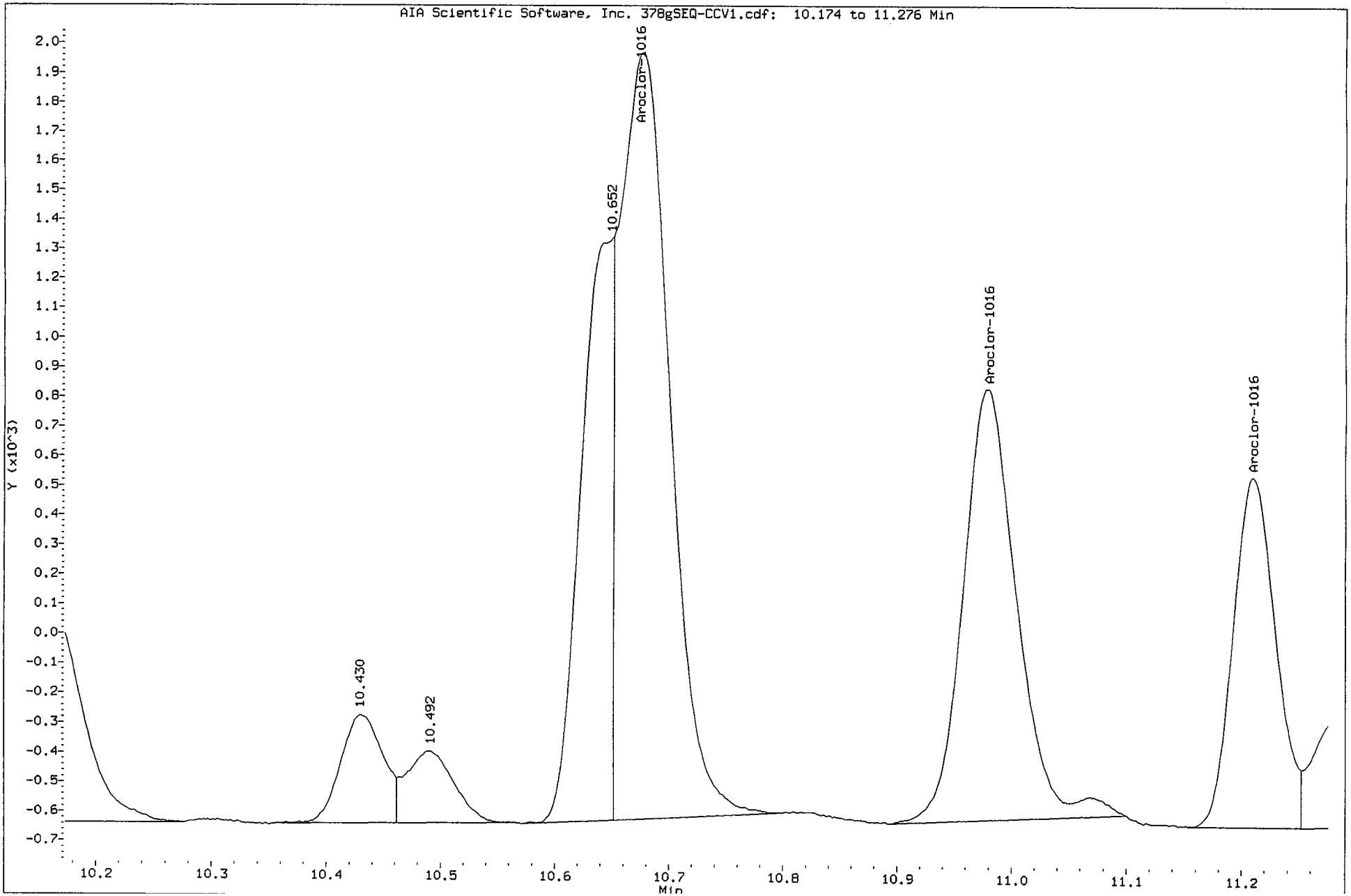
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
14.78	14.71 14.85	7539	21767	Aroclor-1260 Peak 1	0.400000	18845	13.4	20.0		
14.85		708								
15.09		2165								
15.22	15.20 15.34	13299	36912	Aroclor-1260 Peak 2	0.400000	33245	9.9	20.0		
15.52		2019								
15.57		8022								
15.77		975								
15.84		203								
15.94		4530								
15.97		9751								
16.08		594								
16.16	16.15 16.29	10077	28538	Aroclor-1260 Peak 3	0.400000	25190	11.7	20.0		
16.28		4998								
16.52		1809								
16.72		443								
16.78	16.77 16.91	8351	23367	Aroclor-1260 Peak 4	0.400000	20875	10.7	20.0		
16.93		4990								
17.05		2698								
17.16		2044								
17.31	17.29 17.43	19328	54848	Aroclor-1260 Peak 5	0.400000	48320	11.9	20.0		
17.45		645								
17.57		779								
17.94		269								
18.07		12013								
18.15		3011								
18.19		2917								
18.59		206								
18.68		230								
18.89		138								
18.94		1919								
19.28		4693								
19.95		1012								
20.49	20.48 20.62	12190	358404	Decachlorobiphenyl	0.040000	304752	15.0	20.0		

Manually Integrated Peaks



Start: 10.65 Stop: 10.80

Data File: /chem/tracegc84.i/g100505zg_2C.b/378gSEQ-CCV1.d/378gSEQ-CCV1.cdf
Injection Date: 19-MAY-2010 17:17
Instrument: tracegc84.i
Client Sample ID: AR16603IR



Data File: /chem/tracegc84.i/g100505zg_2C.b/379gSEQ-CCV2.d

Page 1

Date : 19-MAY-2010 17:46

Client ID: INDC3IR

Instrument: tracegc84.i

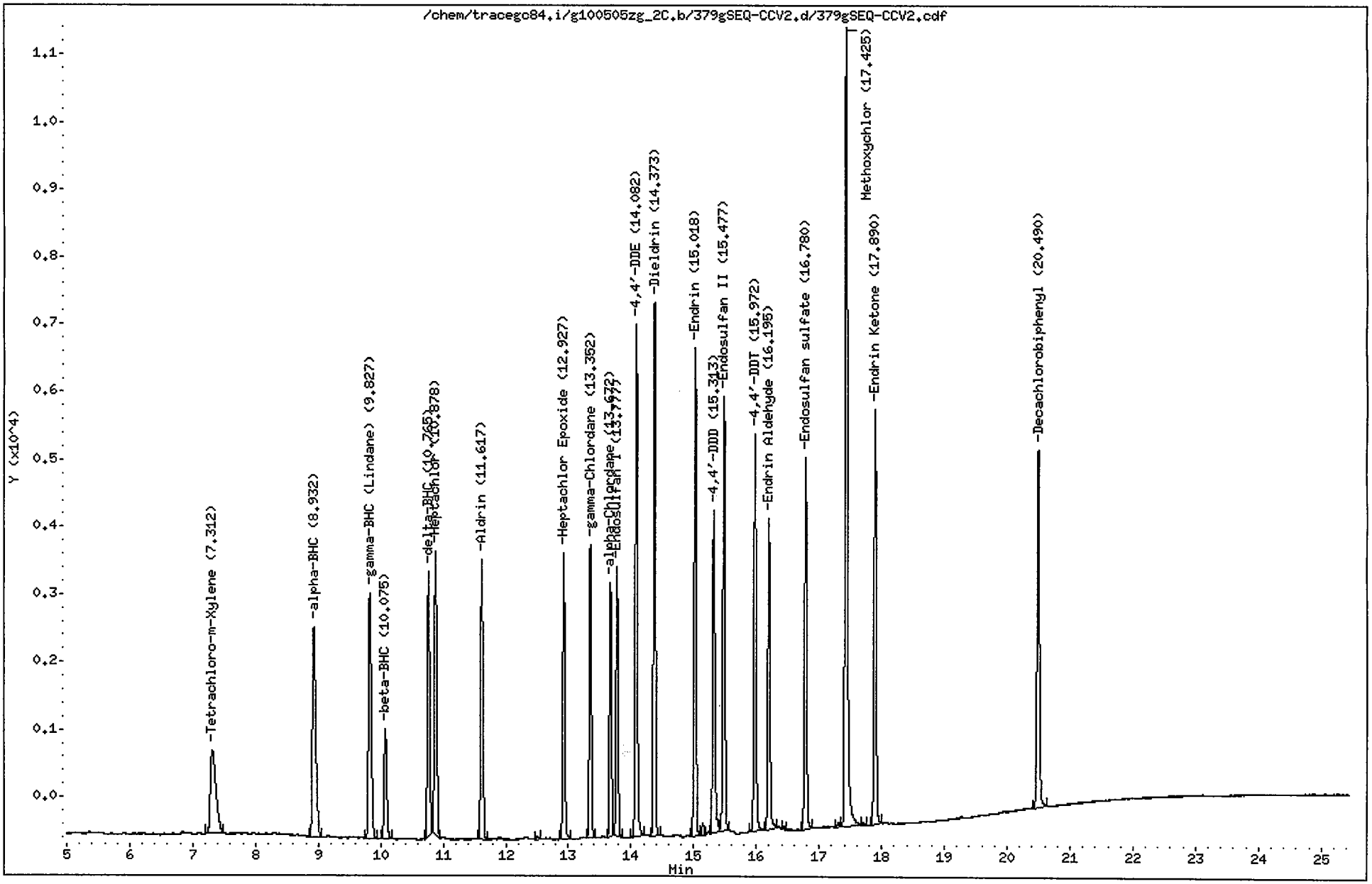
Sample Info: SEQ-CCV2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3IR
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 19-MAY-2010 17:46 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3IR

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.24			118								
1.38			9284								
2.33			108								
7.31	7.29	7.43	7659	407875	Tetrachloro-m-Xylene	0.020000	382900	6.1	20.0		
8.93	8.91	9.05	11416	597775	alpha-BHC	0.020000	570750	4.5	20.0		
9.83	9.81	9.95	11195	579612	gamma-BHC (Lindane)	0.020000	559700	3.4	20.0		
10.08	10.05	10.19	4726	246982	beta-BHC	0.020000	236300	4.3	20.0		
10.76	10.75	10.89	9787	527058	delta-BHC	0.020000	489350	7.2	20.0		
10.88	10.86	11.00	11147	568222	Heptachlor	0.020000	557300	1.9	20.0		
11.62	11.60	11.74	10363	535118	Aldrin	0.020000	518100	3.2	20.0		
12.51			107								
12.93	12.91	13.05	9868	501448	Heptachlor Epoxide	0.020000	493350	1.6	20.0		
13.35	13.33	13.47	9753	501695	gamma-Chlordane	0.020000	487650	2.8	20.0		
13.67	13.66	13.80	8362	433530	alpha-Chlordane	0.020000	418115	3.6	20.0		
13.78	13.76	13.90	8919	463952	Endosulfan I	0.020000	445968	3.9	20.0		
14.08	14.07	14.21	17253	453016	4,4'-DDE	0.040000	431325	4.8	20.0		
14.37	14.36	14.50	17468	448611	Dieldrin	0.040000	436675	2.7	20.0		
15.02	15.01	15.15	16122	402899	Endrin	0.040000	403025	0.0	20.0		
15.15			379								
15.31	15.30	15.44	11561	318030	4,4'-DDD	0.040000	289000	9.1	20.0		
15.48	15.47	15.61	14852	385788	Endosulfan II	0.040000	371275	3.8	20.0		
15.97	15.95	16.09	13721	365509	4,4'-DDT	0.040000	343025	6.2	20.0		
16.20	16.18	16.32	10969	284671	Endrin Aldehyde	0.040000	274200	3.7	20.0		
16.44			98								
16.78	16.77	16.91	12930	337218	Endosulfan sulfate	0.040000	323225	4.1	20.0		
17.31			189								
17.42	17.41	17.55	32003	167230	Methoxychlor	0.200000	160010	4.3	20.0		
17.71			109								
17.89	17.88	18.02	14568	383354	Endrin Ketone	0.040000	364200	5.0	20.0		
20.49	20.48	20.62	13471	358404	Decachlorobiphenyl	0.040000	336775	6.0	20.0		

TAJ 6/7/10

Data File: /chem/tracegc84.i/g100505zg_2C.b/380gSEQ-PEM1.d

Date : 19-MAY-2010 18:15

Client ID: PEMIR

Instrument: tracegc84.i

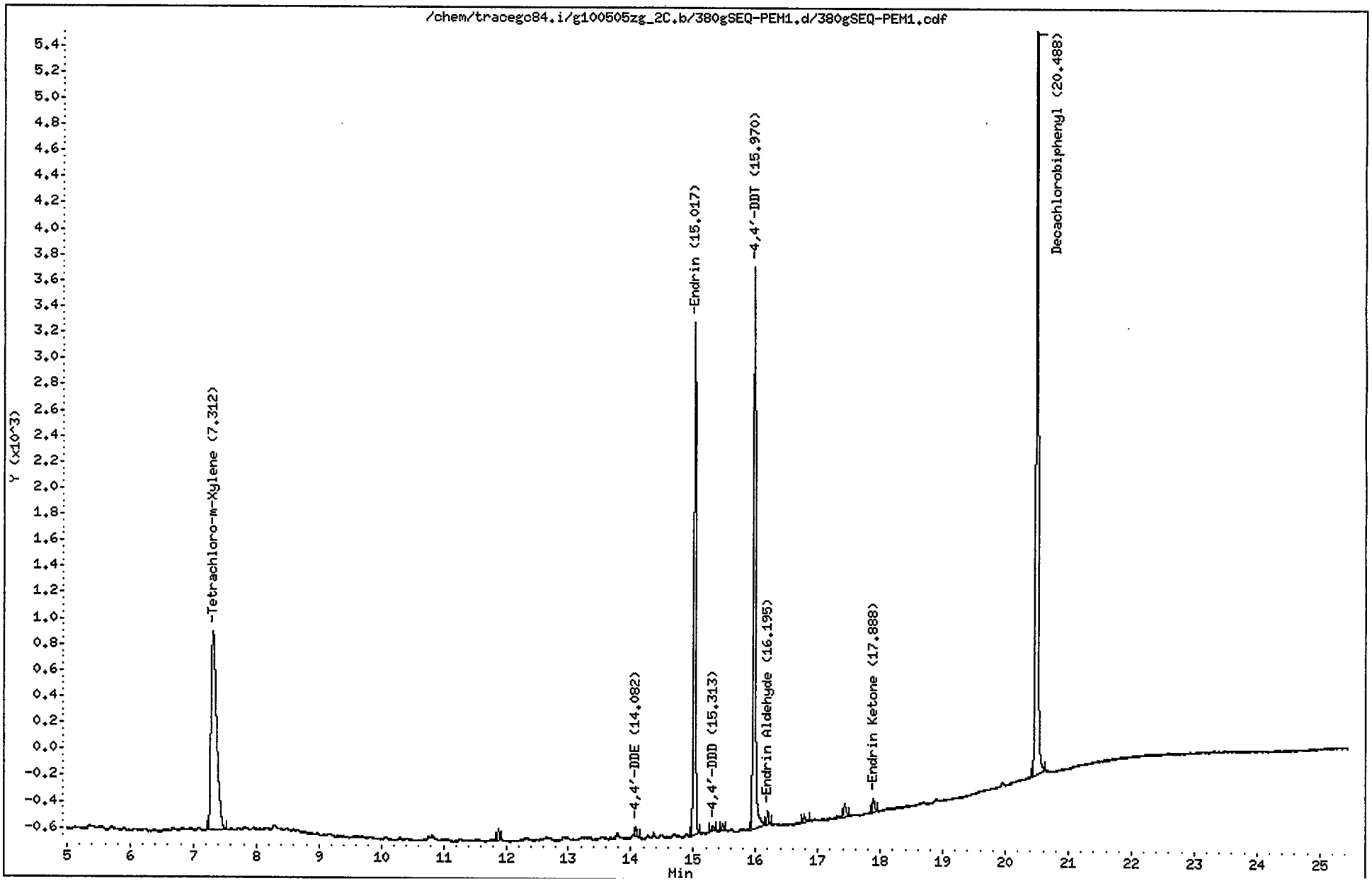
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMIR
Sample Type : SAMPLE Sublist : PEM
Inj Date : 19-MAY-2010 18:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg_2C.b/8081A_clpest2v6.m
Misc. Info : PEMIR

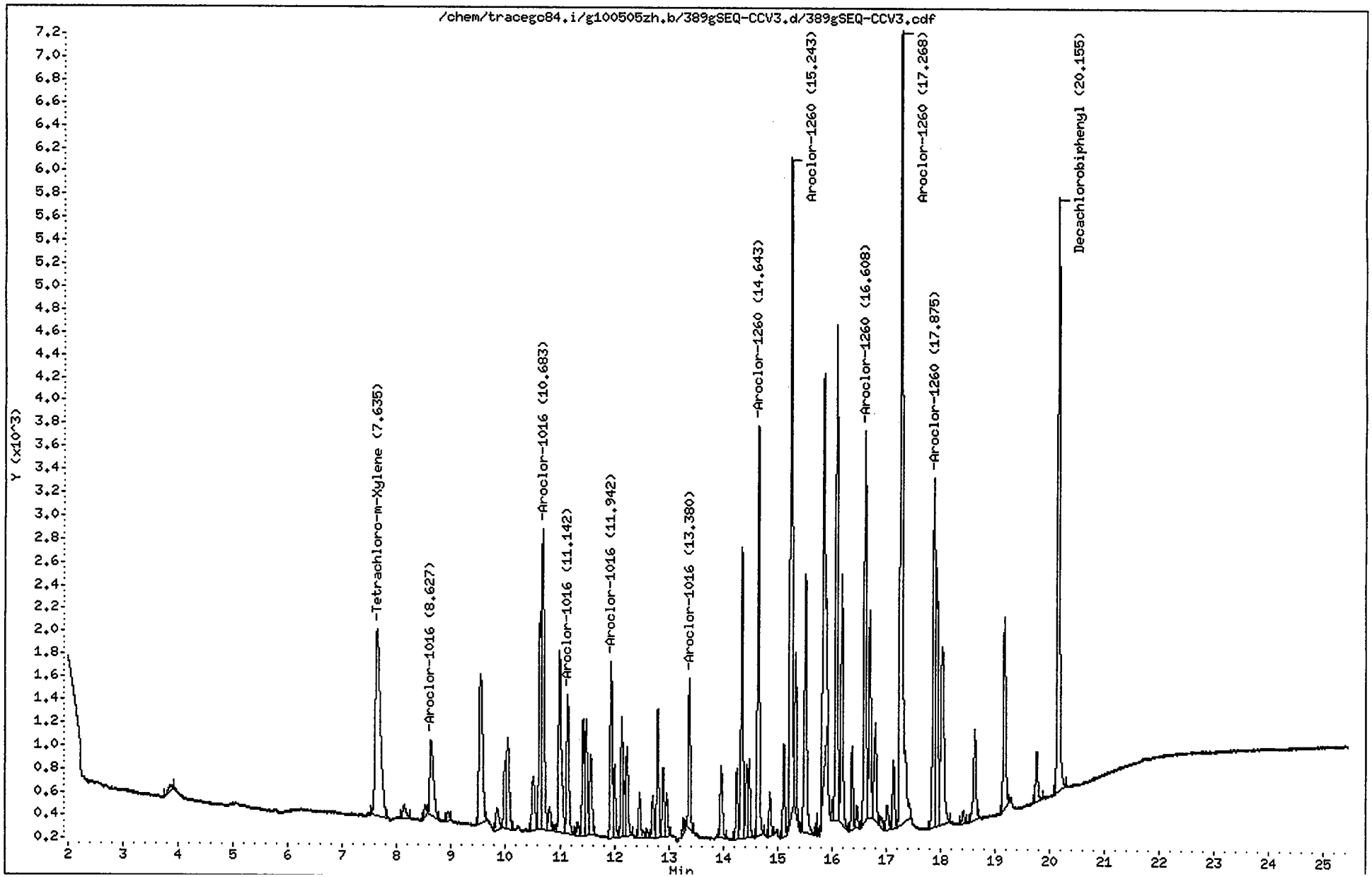
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.37			58130								
7.31	7.29	7.43	9317	407875	Tetrachloro-m-Xylene	0.022842	0.022842		115.4	43 - 135	
11.88			193								
14.08	14.07	14.21	157	453016	4,4'-DDE	0.000347	0.000347	0.020000			J
15.02	15.01	15.15	8785	402899	Endrin	0.021804	0.021804	0.020000			
15.31	15.30	15.44	94	318030	4,4'-DDD	0.000297	0.000297	0.020000			J
15.48			108								
15.97	15.95	16.09	10580	365509	4,4'-DDT	0.028946	0.028946	0.020000			
16.20	16.18	16.32	226	284671	Endrin Aldehyde	0.000795	0.000795	0.020000			J
16.78			134								
17.43			242								
17.89	17.88	18.02	263	383354	Endrin Ketone	0.000686	0.000686	0.020000			J
20.49	20.48	20.62	14952	358404	Decachlorobiphenyl	0.041719	0.041719		105.4	43 - 144	

Data File: /chem/tracegc84.i/g100505zh.b/389gSEQ-CCV3.d
Date : 19-MAY-2010 22:35
Client ID: AR16603IT
Sample Info: SEQ-CCV3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : AR16603IT
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 19-MAY-2010 22:35 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zh.b/8081A_clpestv6.m
Misc. Info : AR16603IT

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.43		38202								
3.86		266								
7.64	7.59 7.73	10309	511075	Tetrachloro-m-Xylene	0.020000	515470	-0.9	20.0		
8.13		531								
8.52		315								
8.63	8.59 8.73	3039	7539	Aroclor-1016 Peak 1	0.400000	7595.000	-0.7	20.0		
8.95		244								
9.54		5905								
9.85		736								
9.99		1453								
10.04		2777								
10.51		1656								
10.63		4590								
10.68	10.64 10.78	8872	22169	Aroclor-1016 Peak 2	0.400000	22177	0.0	20.0		
10.81		572								
10.90		126								
10.99		5630								
11.14	11.09 11.23	3633	9219	Aroclor-1016 Peak 3	0.400000	9082.500	1.5	20.0		
11.33		324								
11.43		2609								
11.48		2810								
11.57		2144								
11.94	11.90 12.04	4122	10369	Aroclor-1016 Peak 4	0.400000	10305	0.6	20.0		
12.00		1626								
12.13		2709								
12.19		813								
12.23		2236								
12.46		1156								
12.61		156								
12.71		960								
12.80		2752								
12.90		1570								
12.96		1012								
13.27		232								
13.38	13.33 13.47	3083	8754	Aroclor-1016 Peak 5	0.400000	7707.500	12.0	20.0		
13.96		1785								
14.25		1546								
14.34		6284								
14.43		1483								
14.48		1740								
14.64	14.60 14.74	8989	23830	Aroclor-1260 Peak 1	0.400000	22470	5.7	20.0		
14.86		1001								

AHW
5/25/10

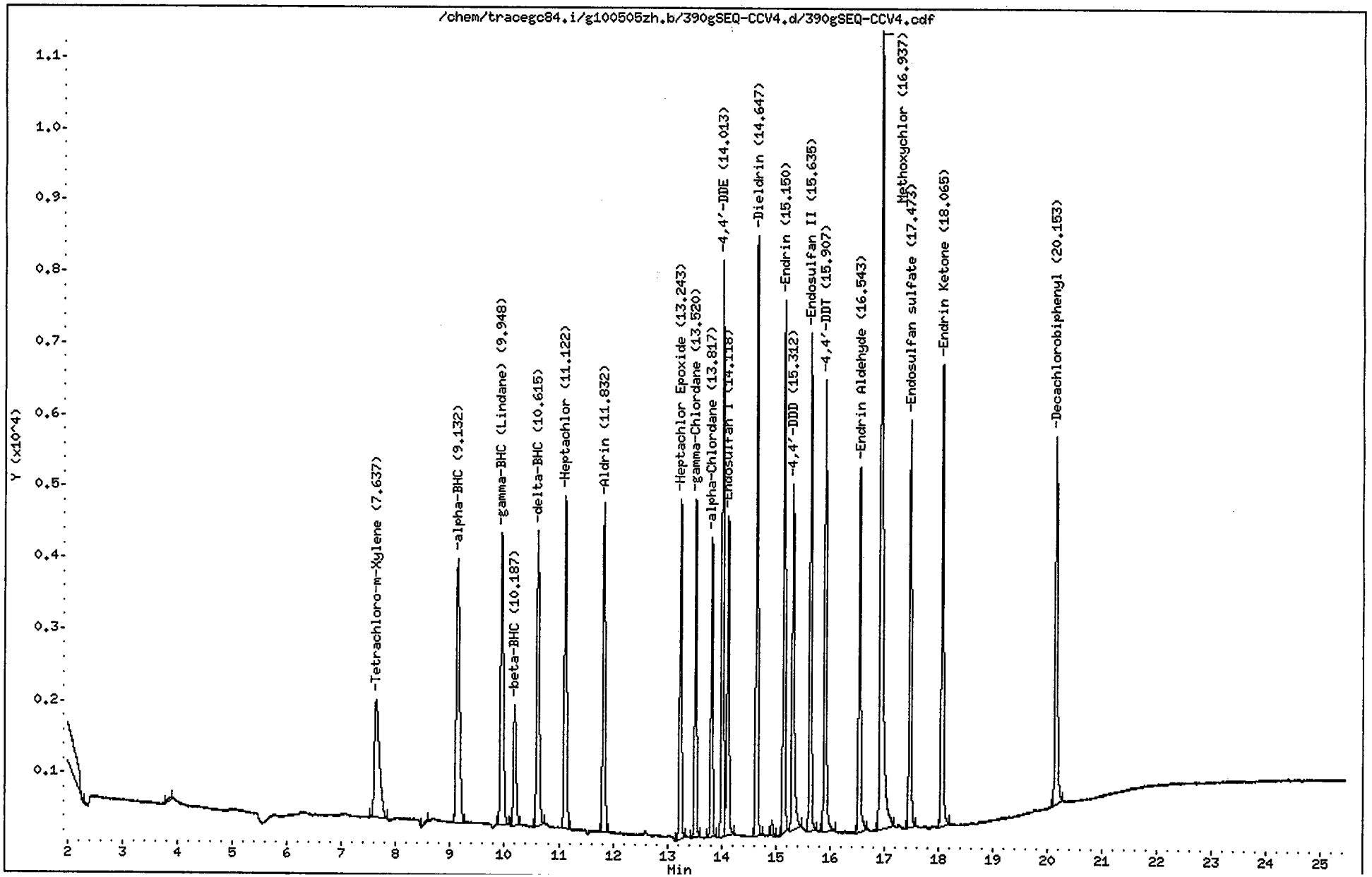
CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : AR16603IT
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 19-MAY-2010 22:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zh.b/8081A_clpestv6.m
Misc. Info : AR16603IT

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
15.12		1952								
15.24	15.20 15.34	16359	47256	Aroclor-1260 Peak 2	0.400000	40897	13.5	20.0		
15.33		3320								
15.51		6924								
15.72		122								
15.85		11886								
16.01		353								
16.08		10986								
16.18		5702								
16.37		1695								
16.46		496								
16.61	16.57 16.71	9077	24838	Aroclor-1260 Peak 3	0.400000	22690	8.6	20.0		
16.70		4716								
16.80		2743								
16.90		305								
17.02		665								
17.13		1542								
17.27	17.22 17.36	23229	57780	Aroclor-1260 Peak 4	0.400000	58073	-0.5	20.0		
17.88	17.82 17.96	8896	26453	Aroclor-1260 Peak 5	0.400000	22237	15.9	20.0		
17.93		6217								
18.03		6717								
18.42		287								
18.63		2505								
19.17		4870								
19.76		1221								
20.16	20.11 20.25	14111	372435	Decachlorobiphenyl	0.040000	352775	5.3	20.0		

Data File: /chem/tracegc84.i/g100505zh.b/390gSEQ-CCV4.d
Date : 19-MAY-2010 23:04
Client ID: INDC3IT
Sample Info: SEQ-CCV4
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

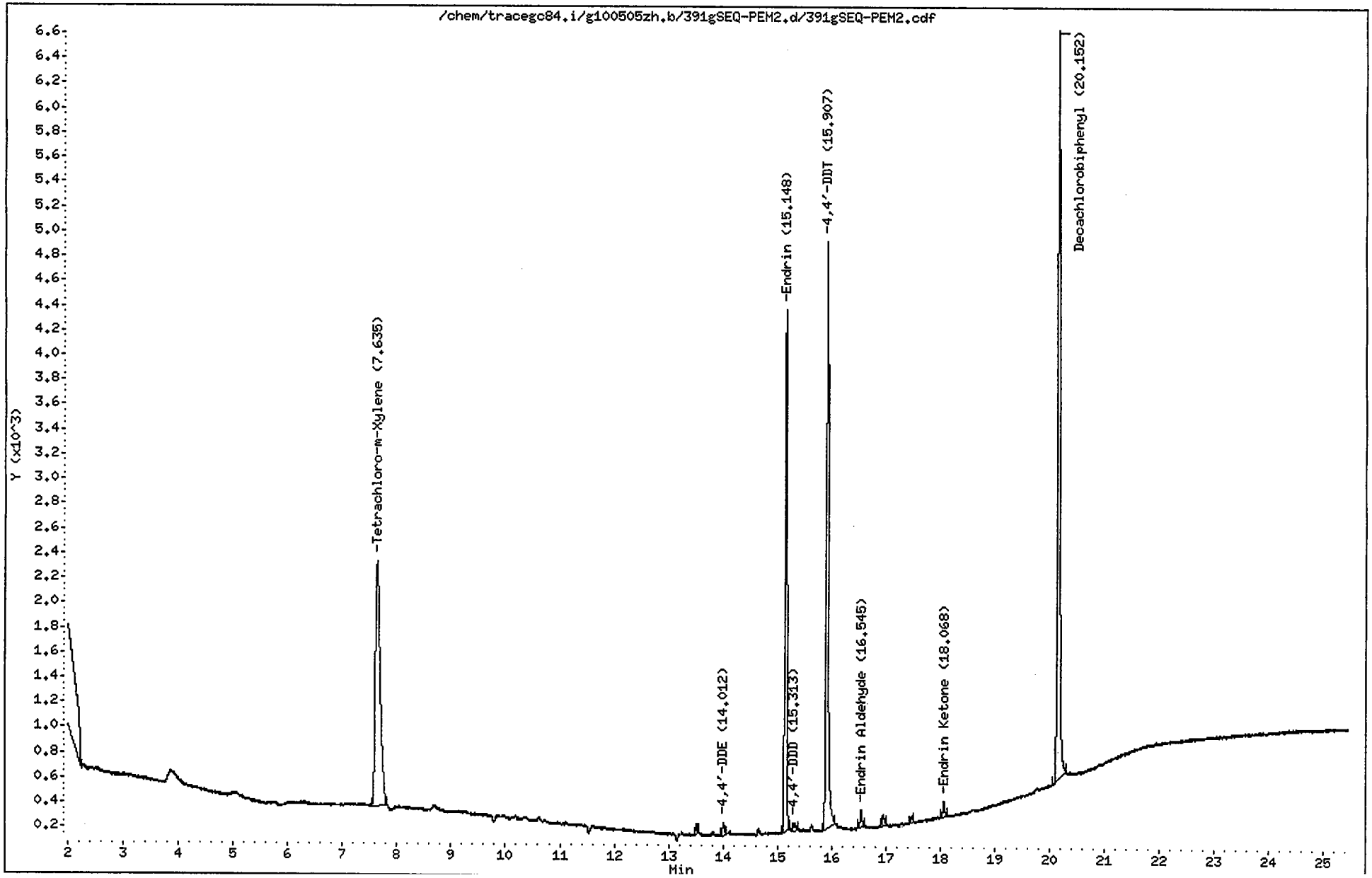
Lab Smp Id : SEQ-CCV4 Client Smp Id : INDC3IT
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 19-MAY-2010 23:04 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zh.b/8081A_clpestv6.m
Misc. Info : INDC3IT

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.43			82749								
3.86			227								
7.64	7.59	7.73	10352	511075	Tetrachloro-m-Xylene	0.020000	517600	-1.3	20.0		
8.57			124								
9.13	9.09	9.23	15495	776175	alpha-BHC	0.020000	774750	0.2	20.0		
9.95	9.91	10.05	14591	725352	gamma-BHC (Lindane)	0.020000	729550	-0.6	20.0		
10.19	10.15	10.29	5735	291225	beta-BHC	0.020000	286700	1.6	20.0		
10.62	10.57	10.71	13232	670705	delta-BHC	0.020000	661550	1.4	20.0		
11.12	11.08	11.22	13949	686315	Heptachlor	0.020000	697450	-1.6	20.0		
11.83	11.79	11.93	12812	627382	Aldrin	0.020000	640550	-2.1	20.0		
13.24	13.20	13.34	12009	585410	Heptachlor Epoxide	0.020000	600400	-2.6	20.0		
13.52	13.48	13.62	11666	579092	gamma-Chlordane	0.020000	583300	-0.7	20.0		
13.82	13.78	13.92	10169	502118	alpha-Chlordane	0.020000	508400	-1.3	20.0		
14.01	13.97	14.11	20006	515756	4,4'-DDE	0.040000	500150	3.0	20.0		
14.12	14.08	14.22	11686	536925	Endosulfan I	0.020000	584300	-8.8	20.0		
14.65	14.61	14.75	20569	512808	Dieldrin	0.040000	514200	-0.3	20.0		
14.93			505								
15.15	15.11	15.25	17997	445172	Endrin	0.040000	449900	-1.1	20.0		
15.31	15.27	15.41	14094	381109	4,4'-DDD	0.040000	352325	7.6	20.0		
15.64	15.59	15.73	17318	440985	Endosulfan II	0.040000	432950	1.8	20.0		
15.91	15.86	16.00	16478	433059	4,4'-DDT	0.040000	411925	4.9	20.0		
16.54	16.50	16.64	13223	325624	Endrin Aldehyde	0.040000	330550	-1.5	20.0		
16.94	16.89	17.03	36221	188501	Methoxychlor	0.200000	181100	3.9	20.0		
17.47	17.44	17.58	14236	370954	Endosulfan sulfate	0.040000	355900	4.1	20.0		
18.06	18.03	18.17	16830	439015	Endrin Ketone	0.040000	420750	4.2	20.0		
20.15	20.11	20.25	14283	372435	Decachlorobiphenyl	0.040000	357075	4.1	20.0		

AHW
5/25/10

Data File: /chem/tracegc84.i/g100505zh.b/391gSEQ-PEM2.d
Date : 19-MAY-2010 23:33
Client ID: PEMIT
Sample Info: SEQ-PEM2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMIT
Sample Type : SAMPLE Sublist : PEM
Inj Date : 19-MAY-2010 23:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zh.b/8081A_clpestv6.m
Misc. Info : PEMIT

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.05			334								
1.43			108755								
7.64	7.59	7.73	12344	511075	Tetrachloro-m-Xylene	0.024152	0.024152		122.0	43 - 135	
13.52			173								
14.01	13.97	14.11	258	515756	4,4'-DDE	0.000500	0.000500	0.020000			J
15.15	15.11	15.25	10401	445172	Endrin	0.023363	0.023363	0.020000			
15.31	15.27	15.41	179	381109	4,4'-DDD	0.000470	0.000470	0.020000			J
15.91	15.86	16.00	13094	433059	4,4'-DDT	0.030237	0.030237	0.020000			
16.54	16.50	16.64	351	325624	Endrin Aldehyde	0.001077	0.001077	0.020000			J
16.94			235								
17.47			121								
18.07	18.03	18.17	324	439015	Endrin Ketone	0.000737	0.000737	0.020000			J
20.15	20.11	20.25	16889	372435	Decachlorobiphenyl	0.045348	0.045348		114.5	43 - 144	

AHW
5/25/10

Data File: /chem/tracegc84.i/g100505zh_2C.b/389gSEQ-CCV3.d

Date : 19-MAY-2010 22:35

Client ID: AR16603IT

Instrument: tracegc84.i

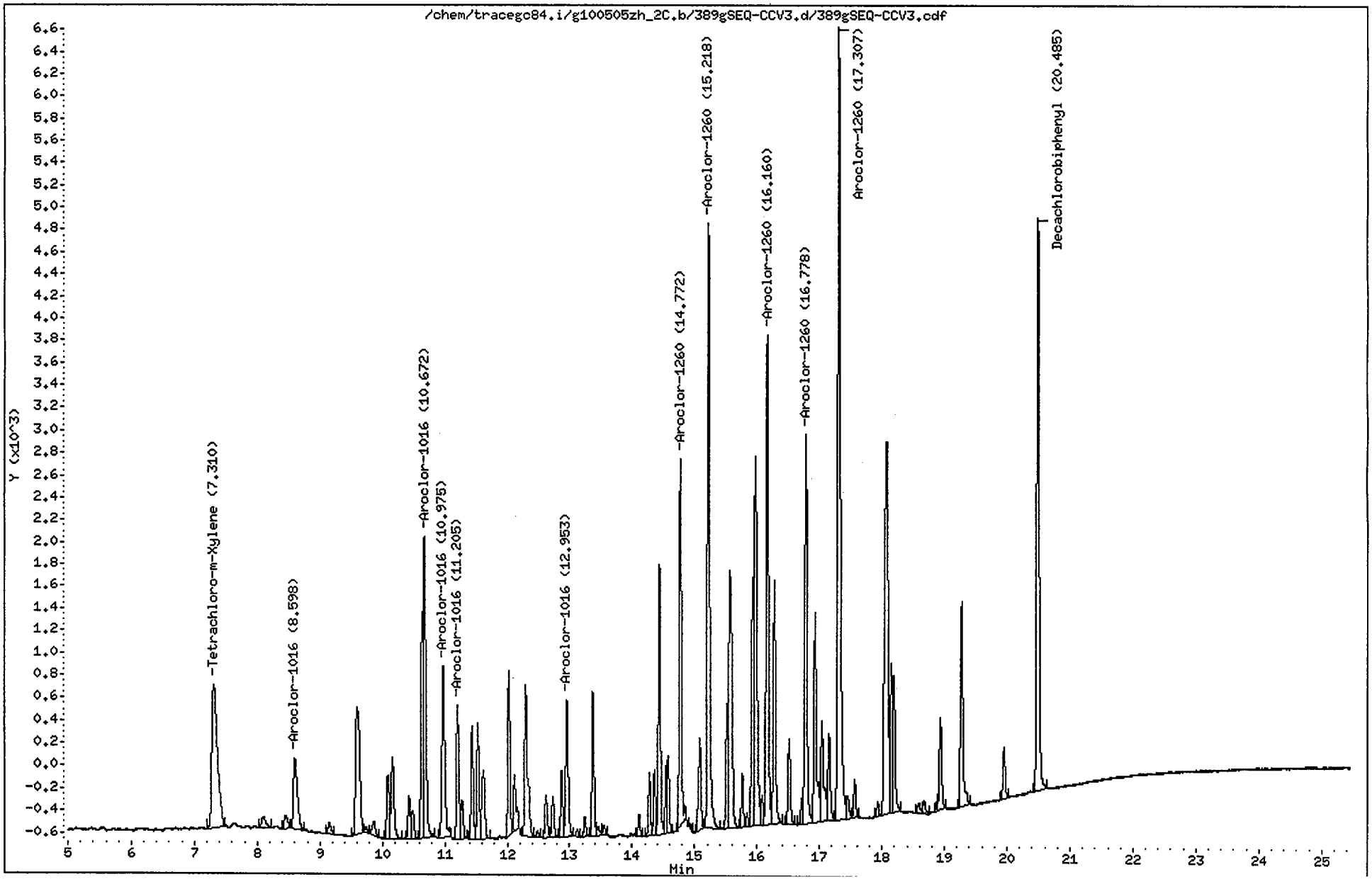
Sample Info: SEQ-CCV3

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : AR16603IT
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 19-MAY-2010 22:35 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zh_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603IT

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.37			5972								
1.67			24421								
7.31	7.29	7.43	7879	407875	Tetrachloro-m-Xylene	0.020000	393935	3.4	20.0		
8.10			517								
8.45			491								
8.60	8.58	8.72	2760	7292	Aroclor-1016 Peak 1	0.400000	6900.000	5.4	20.0		
9.15			374								
9.60			5227								
9.73			147								
9.86			505								
10.09			1629								
10.16			2341								
10.43			1045								
10.48			713								
10.65			4219								
10.67	10.66	10.80	8118	20647	Aroclor-1016 Peak 2	0.400000	20293	1.7	20.0	M	ZM
10.98	10.96	11.10	4984	12384	Aroclor-1016 Peak 3	0.400000	12460	-0.6	20.0		
11.20	11.19	11.33	3114	8199	Aroclor-1016 Peak 4	0.400000	7785.000	5.0	20.0		
11.27			970								
11.44			2536								
11.53			2708								
11.62			2071								
12.03			3468								
12.12			1469								
12.30			4400								
12.49			133								
12.62			1034								
12.73			942								
12.87			1435								
12.95	12.94	13.08	3426	8243	Aroclor-1016 Peak 5	0.400000	8565.000	-3.9	20.0		
13.12			161								
13.24			439								
13.37			2962								
13.46			261								
13.55			229								
14.11			420								
14.28			1320								
14.36			1363								
14.44			5575								
14.55			1171								
14.58			1516								
14.77	14.76	14.90	7887	21767	Aroclor-1260 Peak 1	0.400000	19717	9.4	20.0		

pm 5/26/10

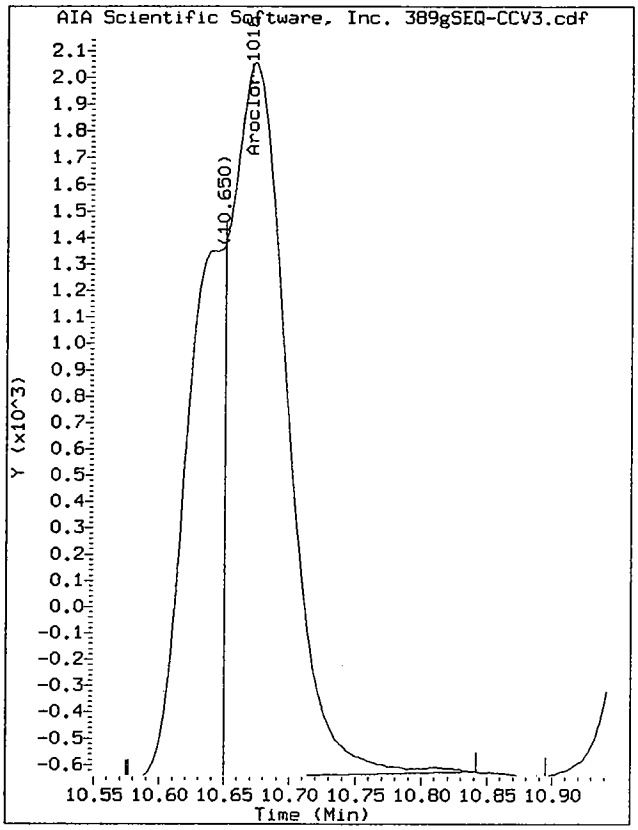
AHW 5/25/10

CompuChem

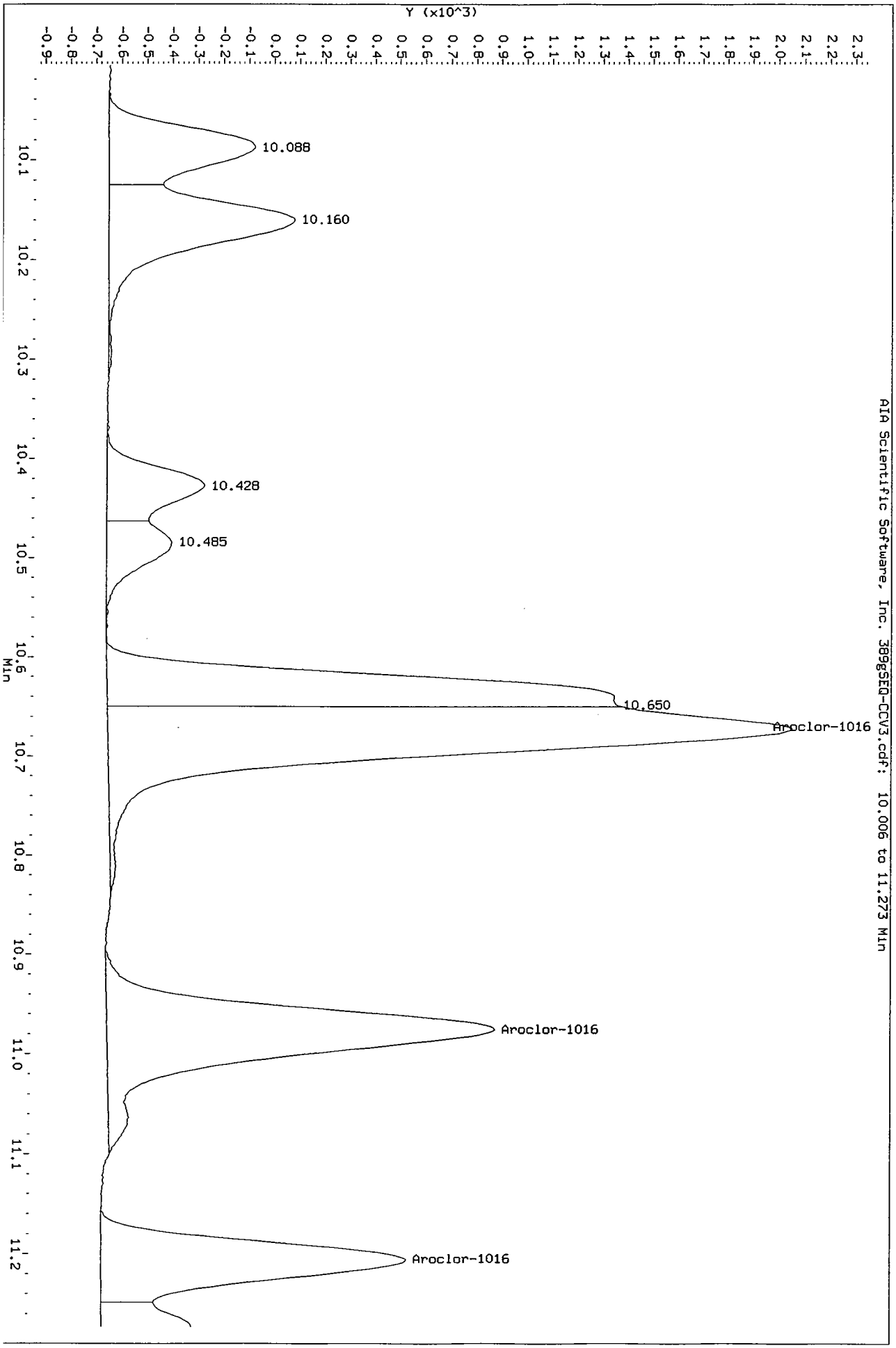
Lab Smp Id : SEQ-CCV3 Client Smp Id : AR16603IT
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 19-MAY-2010 22:35 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zh_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603IT

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
14.94		90								
15.08		2190								
15.22	15.20 15.34	13940	36912	Aroclor-1260 Peak 2	0.400000	34847	5.6	20.0		
15.52		2155								
15.56		8475								
15.76		1052								
15.84		234								
15.93		4594								
15.97		10597								
16.08		669								
16.16	16.15 16.29	10790	28538	Aroclor-1260 Peak 3	0.400000	26975	5.5	20.0		
16.27		5496								
16.52		1938								
16.72		485								
16.78	16.77 16.91	8944	23367	Aroclor-1260 Peak 4	0.400000	22360	4.3	20.0		
16.93		5336								
17.04		2885								
17.15		2171								
17.31	17.29 17.43	20587	54848	Aroclor-1260 Peak 5	0.400000	51467	6.2	20.0		
17.45		658								
17.57		795								
17.93		290								
18.07		12968								
18.15		3088								
18.19		3120								
18.59		273								
18.68		354								
18.88		152								
18.94		2069								
19.27		5121								
19.95		1125								
20.48	20.48 20.62	13426	358404	Decachlorobiphenyl	0.040000	335640	6.4	20.0		

Manually Integrated Peaks



Start: 10.65 Stop: 10.84


Data File: /chem/tracegc84.i/g100505zh_2C.b/389gSEQ-CCV3.d/389gSEQ-CCV3.cdf
Injection Date: 19-MAY-2010 22:35
Instrument: tracegc84.i
Client Sample ID: AR1660ZIT
Y (x10^3)
10.088
10.160
10.428
10.485
10.650
Aroclor-1016
Aroclor-1016
Aroclor-1016
AIA Scientific Software, Inc. 389gSEQ-CCV3.cdf: 10.006 to 11.273 Min
Min

Data File: /chem/tracegc84.i/g100505zh_2C.b/390gSEQ-CCV4.d

Date : 19-MAY-2010 23:04

Client ID: INDC3IT

Sample Info: SEQ-CCV4

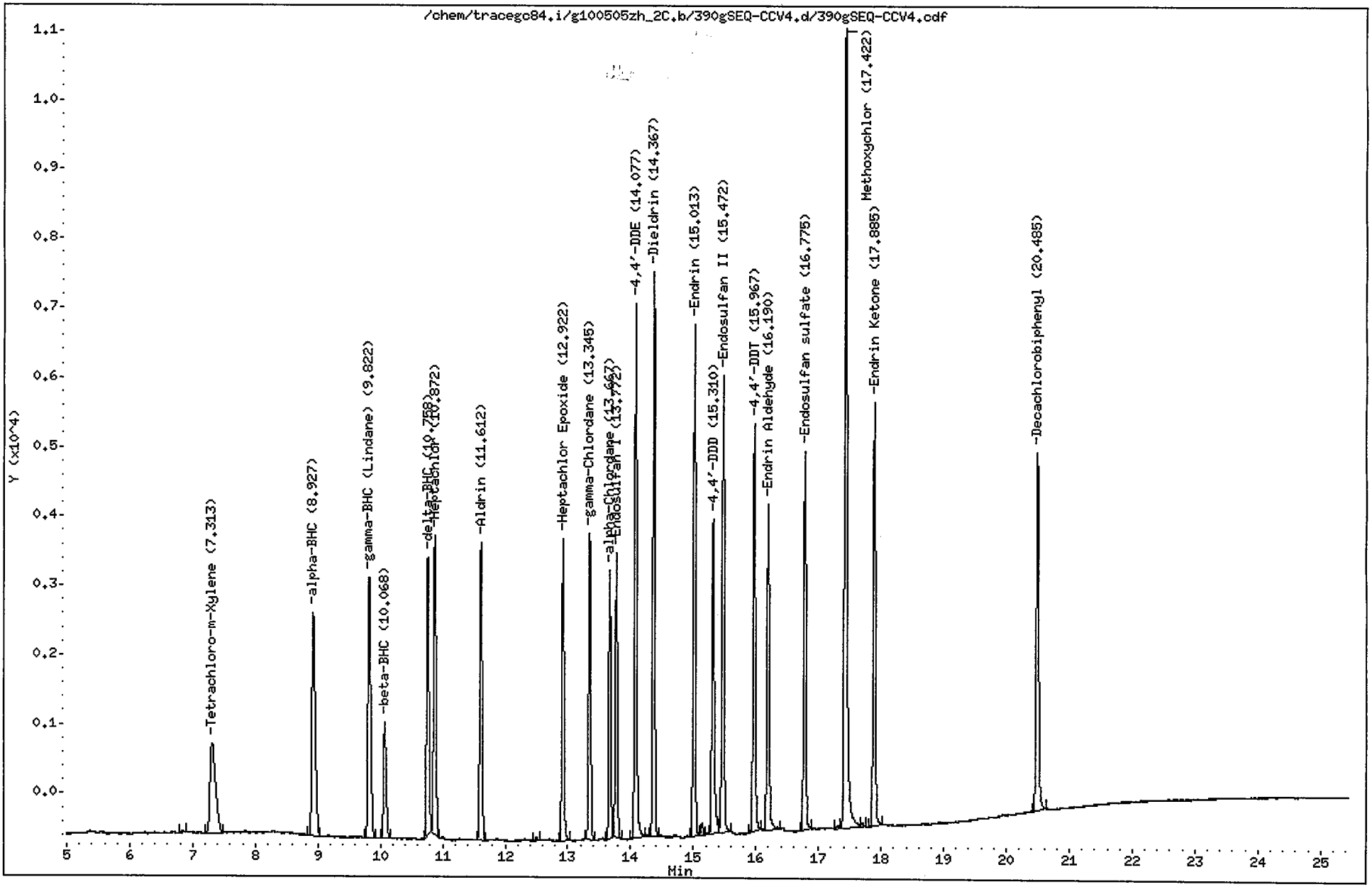
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV4 Client Smp Id : INDC3IT
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 19-MAY-2010 23:04 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zh_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3IT

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.24			117								
1.37			22898								
1.66			20114								
2.31			96								
6.84			109								
7.31	7.29	7.43	8080	407875	Tetrachloro-m-Xylene	0.020000	403950	1.0	20.0		
8.93	8.91	9.05	11814	597775	alpha-BHC	0.020000	590700	1.2	20.0		
9.82	9.81	9.95	11498	579612	gamma-BHC (Lindane)	0.020000	574850	0.8	20.0		
10.07	10.05	10.19	4826	246982	beta-BHC	0.020000	241300	2.3	20.0		
10.76	10.75	10.89	10021	527058	delta-BHC	0.020000	501048	4.9	20.0		
10.87	10.86	11.00	11520	568222	Heptachlor	0.020000	576017	-1.4	20.0		
11.61	11.60	11.74	10714	535118	Aldrin	0.020000	535700	-0.1	20.0		
12.50			101								
12.92	12.91	13.05	10176	501448	Heptachlor Epoxide	0.020000	508800	-1.5	20.0		
13.34	13.33	13.47	10012	501695	gamma-Chlordane	0.020000	500550	0.2	20.0		
13.67	13.66	13.80	8589	433530	alpha-Chlordane	0.020000	429400	1.0	20.0		
13.77	13.76	13.90	9182	463952	Endosulfan I	0.020000	459050	1.1	20.0		
14.08	14.07	14.21	17704	453016	4,4'-DDE	0.040000	442600	2.3	20.0		
14.37	14.36	14.50	17948	448611	Dieldrin	0.040000	448700	0.0	20.0		
15.01	15.01	15.15	16488	402899	Endrin	0.040000	412175	-2.3	20.0		
15.14			403								
15.31	15.30	15.44	11644	318030	4,4'-DDD	0.040000	291075	8.5	20.0		
15.47	15.47	15.61	15444	385788	Endosulfan II	0.040000	386100	-0.1	20.0		
15.97	15.95	16.09	13708	365509	4,4'-DDT	0.040000	342675	6.2	20.0		
16.19	16.18	16.32	11446	284671	Endrin Aldehyde	0.040000	286150	-0.5	20.0		
16.78	16.77	16.91	12991	337218	Endosulfan sulfate	0.040000	324775	3.7	20.0		
17.31			146								
17.42	17.41	17.55	32073	167230	Methoxychlor	0.200000	160360	4.1	20.0		
17.70			117								
17.88	17.88	18.02	14791	383354	Endrin Ketone	0.040000	369775	3.5	20.0		
20.48	20.48	20.62	13698	358404	Decachlorobiphenyl	0.040000	342450	4.5	20.0		

TAJ 6/7/10

Data File: /chem/tracegc84.i/g100505zh_2C.b/391gSEQ-PEM2.d

Date : 19-MAY-2010 23:33

Client ID: PEMIT

Instrument: tracegc84.i

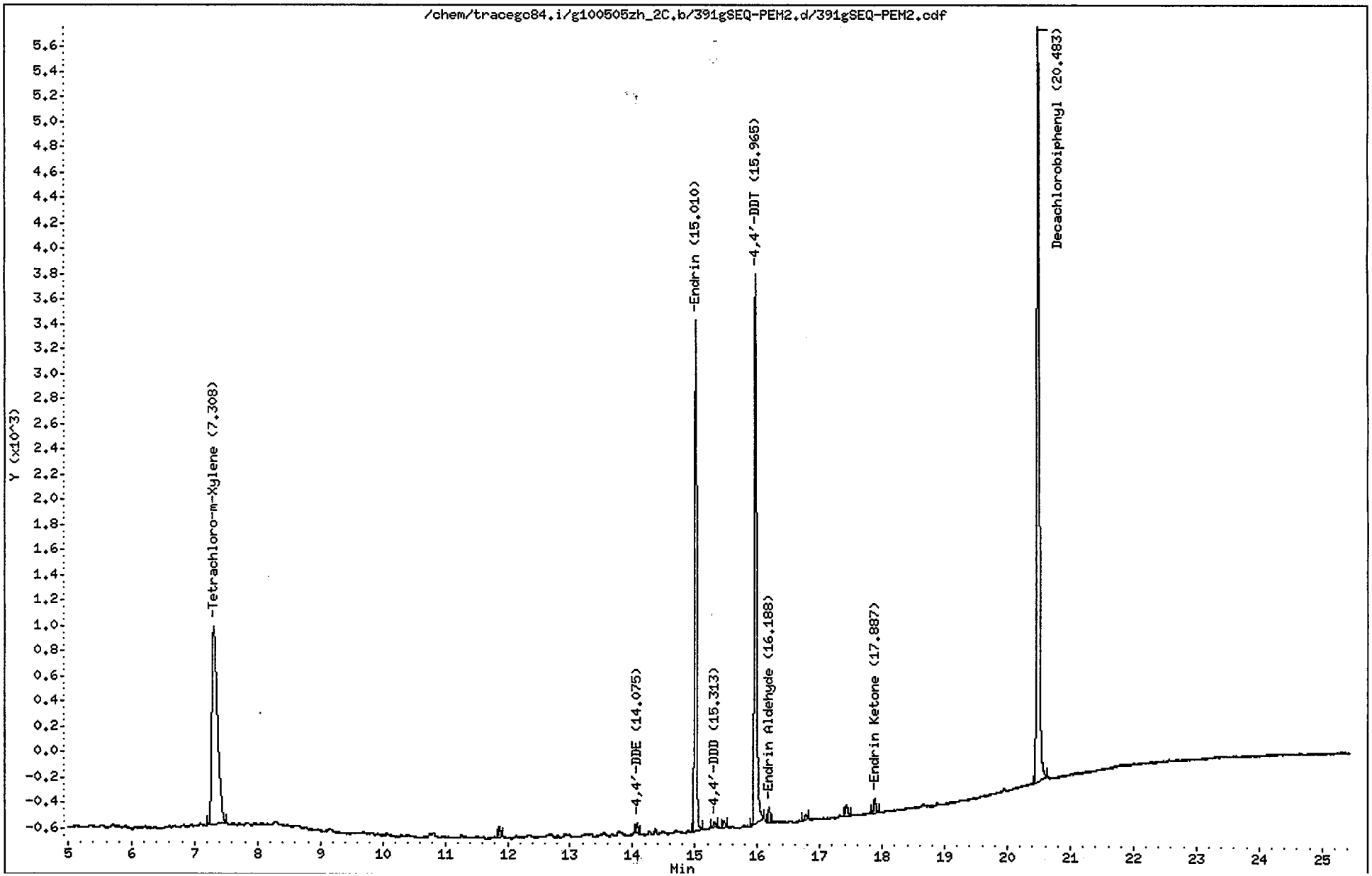
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMIT
Sample Type : SAMPLE Sublist : PEM
Inj Date : 19-MAY-2010 23:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zh_2C.b/8081A_clpest2v6.m
Misc. Info : PEMIT

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.37			20171								
7.31	7.29	7.43	9740	407875	Tetrachloro-m-Xylene	0.023880	0.023880		120.6	43 - 135	
11.87			214								
14.08	14.07	14.21	181	453016	4,4'-DDE	0.000400	0.000400	0.020000			J
15.01	15.01	15.15	9149	402899	Endrin	0.022708	0.022708	0.020000			T
15.31	15.30	15.44	93	318030	4,4'-DDD	0.000292	0.000292	0.020000			J
15.47			115								
15.96	15.95	16.09	10834	365509	4,4'-DDT	0.029641	0.029641	0.020000			
16.19	16.18	16.32	255	284671	Endrin Aldehyde	0.000892	0.000892	0.020000			J
16.78			111								
17.43			250								
17.89	17.88	18.02	273	383354	Endrin Ketone	0.000712	0.000712	0.020000			J
20.48	20.48	20.62	16095	358404	Decachlorobiphenyl	0.044905	0.044905		113.4	43 - 144	

AHW
5/25/10

Data File: /chem/tracegc84.i/g100505zk.b/408gSEQ-CCV1.d

Date : 21-MAY-2010 10:44

Client ID: INDC3RW

Instrument: tracegc84.i

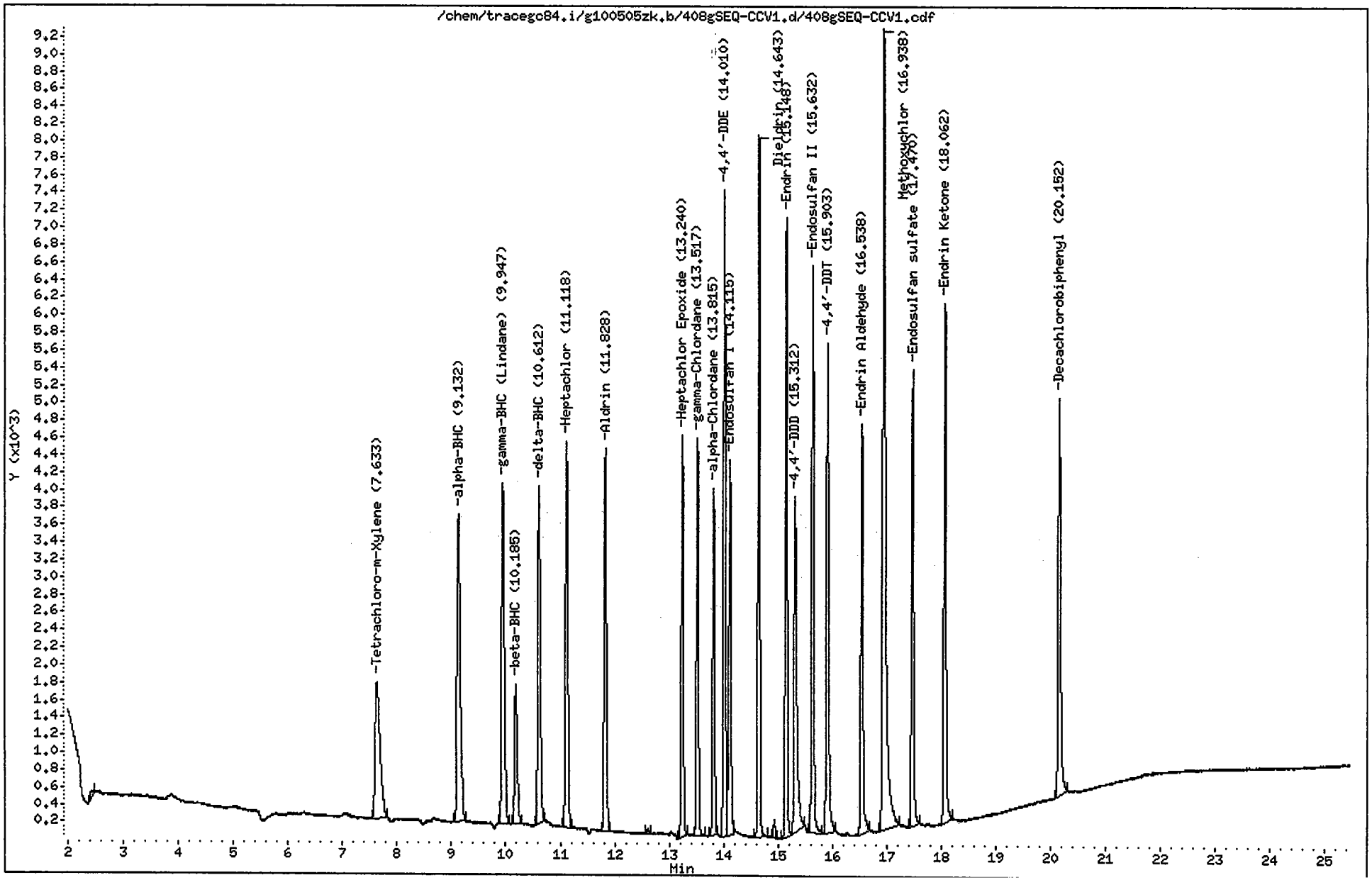
Sample Info: SEQ-CCV1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3RW
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 21-MAY-2010 10:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : INDC3RW

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.42			4639								
2.42			346								
7.63	7.56	7.70	9903	511075	Tetrachloro-m-Xylene	0.020000	495100	3.1	20.0		
9.13	9.06	9.20	14818	776175	alpha-BHC	0.020000	740900	4.5	20.0		
9.95	9.88	10.02	13970	725352	gamma-BHC (Lindane)	0.020000	698450	3.7	20.0		
10.18	10.11	10.25	5452	291225	beta-BHC	0.020000	272600	6.4	20.0		
10.61	10.54	10.68	12302	670705	delta-BHC	0.020000	615100	8.3	20.0		
11.12	11.05	11.19	13429	686315	Heptachlor	0.020000	671450	2.2	20.0		
11.83	11.76	11.90	12364	627382	Aldrin	0.020000	618150	1.5	20.0		
12.60			143								
13.24	13.17	13.31	11548	585410	Heptachlor Epoxide	0.020000	577400	1.4	20.0		
13.52	13.45	13.59	11428	579092	gamma-Chlordane	0.020000	571400	1.3	20.0		
13.82	13.75	13.89	9799	502118	alpha-Chlordane	0.020000	489950	2.4	20.0		
14.01	13.94	14.08	18921	515756	4,4'-DDE	0.040000	473000	8.3	20.0		
14.12	14.05	14.19	11554	536925	Endosulfan I	0.020000	577700	-7.6	20.0		
14.64	14.57	14.71	19815	512808	Dieldrin	0.040000	495350	3.4	20.0		
14.93			469								
15.15	15.08	15.22	17317	445172	Endrin	0.040000	432900	2.8	20.0		
15.31	15.24	15.38	13029	381109	4,4'-DDD	0.040000	325700	14.5	20.0		
15.63	15.56	15.70	16645	440985	Endosulfan II	0.040000	416125	5.6	20.0		
15.90	15.83	15.97	15448	433059	4,4'-DDT	0.040000	386200	10.8	20.0		
16.54	16.47	16.61	12490	325624	Endrin Aldehyde	0.040000	312225	4.1	20.0		
16.94	16.87	17.01	34048	188501	Methoxychlor	0.200000	170240	9.7	20.0		
17.47	17.40	17.54	13400	370954	Endosulfan sulfate	0.040000	335000	9.7	20.0		
18.06	17.99	18.13	15814	439015	Endrin Ketone	0.040000	395350	9.9	20.0		
20.15	20.08	20.22	13422	372435	Decachlorobiphenyl	0.040000	335525	9.9	20.0		

Data File: /chem/tracegc84.i/g100505zk.b/409gSEQ-PEM1.d

Date : 21-MAY-2010 11:13

Client ID: PEMRW

Instrument: tracegc84.i

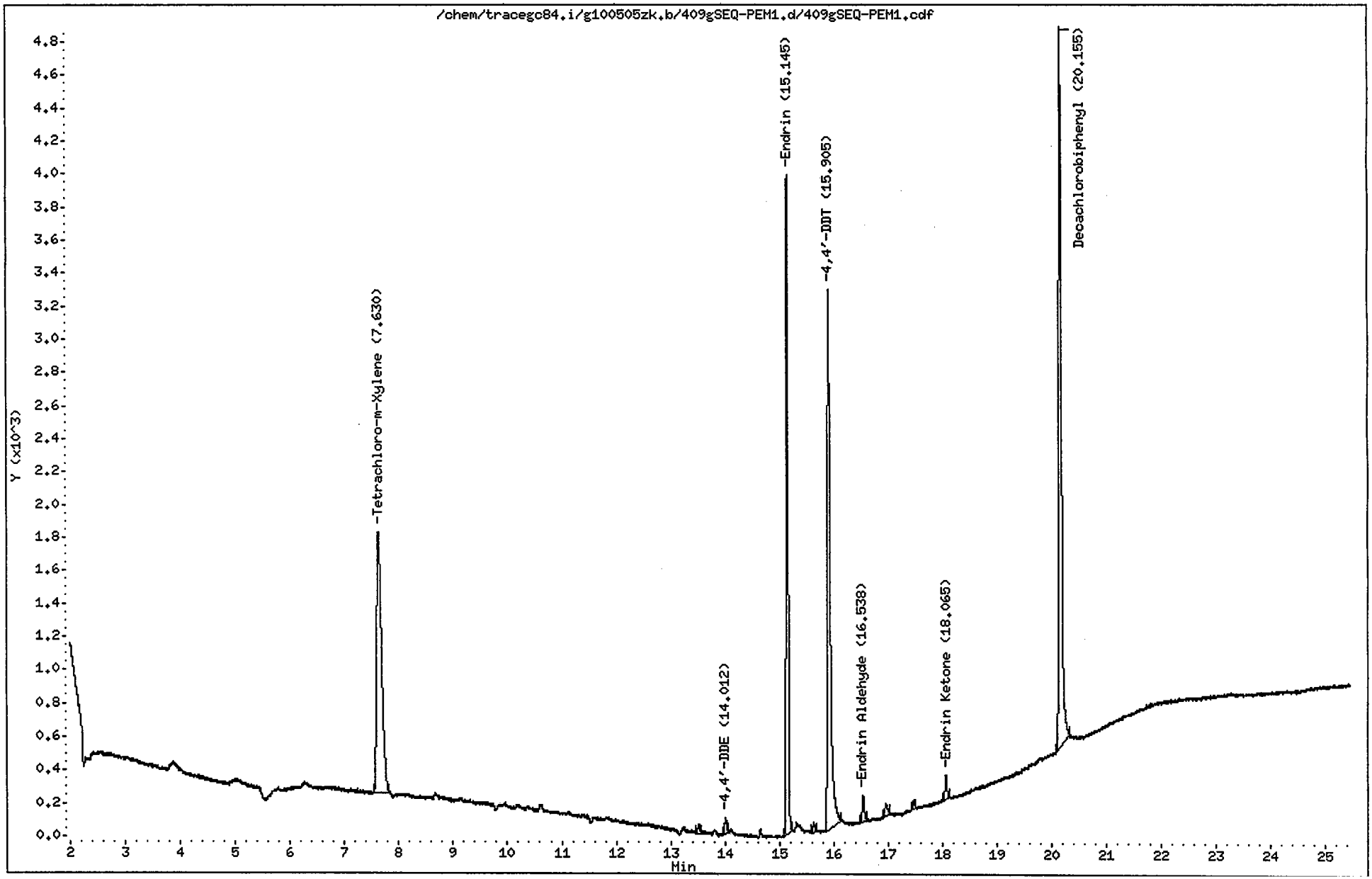
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMRW
Sample Type : SAMPLE Sublist : PEM
Inj Date : 21-MAY-2010 11:13 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : PEMRW

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.42			3886								
7.63	7.56	7.70	9925	511075	Tetrachloro-m-Xylene	0.019419	0.019419		98.1	43 - 135	
13.52			145								
14.01	13.94	14.08	218	515756	4,4'-DDE	0.000424	0.000424	0.020000			J
15.14	15.08	15.22	9872	445172	Endrin	0.022177	0.022177	0.020000			
15.63			157								
15.90	15.83	15.97	11634	433059	4,4'-DDT	0.026864	0.026864	0.020000			
16.54	16.47	16.61	417	325624	Endrin Aldehyde	0.001282	0.001282	0.020000			J
16.96			246								
17.47			133								
18.06	17.99	18.13	409	439015	Endrin Ketone	0.000932	0.000932	0.020000			J
20.16	20.08	20.22	13767	372435	Decachlorobiphenyl	0.036964	0.036964		93.3	43 - 144	

Data File: /chem/tracegc84.i/g100505zk_2C.b/408gSEQ-CCV1.d

Date : 21-MAY-2010 10:44

Client ID: INDC3RX

Instrument: tracegc84.i

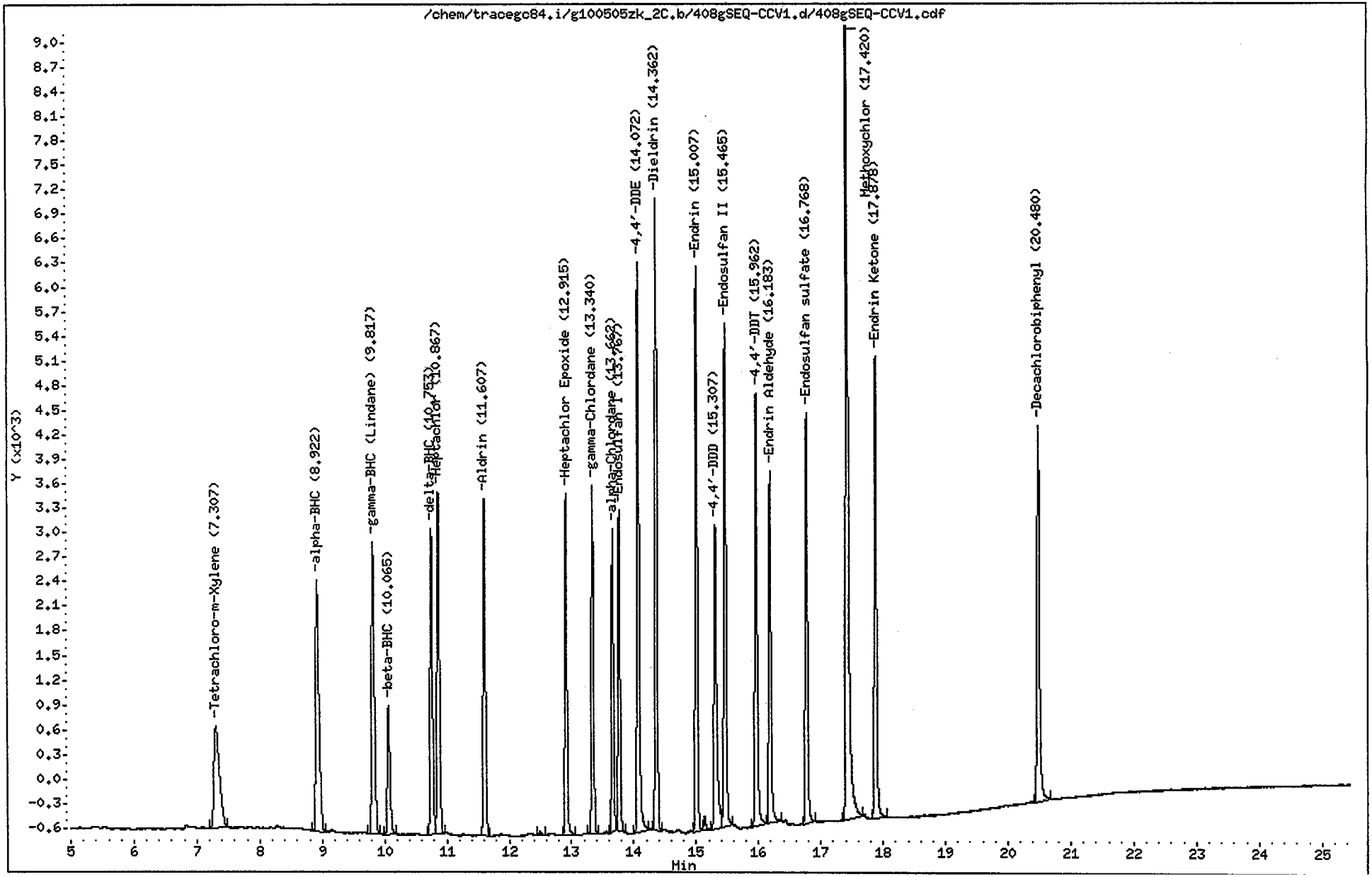
Sample Info: SEQ-CCV1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3RX
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 21-MAY-2010 10:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3RX

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.24			120								
1.37			21635								
1.66			19678								
7.31	7.24	7.38	7641	407875	Tetrachloro-m-Xylene	0.020000	382030	6.3	20.0		
8.92	8.85	8.99	11219	597775	alpha-BHC	0.020000	560965	6.2	20.0		
9.82	9.75	9.89	10919	579612	gamma-BHC (Lindane)	0.020000	545938	5.8	20.0		
10.06	10.00	10.14	4564	246982	beta-BHC	0.020000	228225	7.6	20.0		
10.75	10.69	10.83	9685	527058	delta-BHC	0.020000	484245	8.1	20.0		
10.87	10.80	10.94	11372	568222	Heptachlor	0.020000	568590	-0.1	20.0		
11.61	11.54	11.68	10193	535118	Aldrin	0.020000	509633	4.8	20.0		
12.49			114								
12.92	12.85	12.99	9738	501448	Heptachlor Epoxide	0.020000	486907	2.9	20.0		
13.34	13.27	13.41	9534	501695	gamma-Chlordane	0.020000	476692	5.0	20.0		
13.66	13.59	13.73	8190	433530	alpha-Chlordane	0.020000	409480	5.5	20.0		
13.77	13.70	13.84	8767	463952	Endosulfan I	0.020000	438350	5.5	20.0		
14.07	14.01	14.15	16733	453016	4,4'-DDE	0.040000	418317	7.7	20.0		
14.36	14.29	14.43	17113	448611	Dieldrin	0.040000	427832	4.6	20.0		
15.01	14.94	15.08	15476	402899	Endrin	0.040000	386899	4.0	20.0		
15.13			428								
15.31	15.24	15.38	10594	318030	4,4'-DDD	0.040000	264851	16.7	20.0		
15.46	15.40	15.54	14583	385788	Endosulfan II	0.040000	364565	5.5	20.0		
15.96	15.89	16.03	12997	365509	4,4'-DDT	0.040000	324926	11.1	20.0		
16.18	16.12	16.26	10597	284671	Endrin Aldehyde	0.040000	264919	6.9	20.0		
16.77	16.70	16.84	12117	337218	Endosulfan sulfate	0.040000	302935	10.2	20.0		
17.42	17.35	17.49	29531	167230	Methoxychlor	0.200000	147657	11.7	20.0		
17.88	17.81	17.95	13954	383354	Endrin Ketone	0.040000	348840	9.0	20.0		
20.48	20.41	20.55	12962	358404	Decachlorobiphenyl	0.040000	324052	9.6	20.0		

Data File: /chem/tracegc84.i/g100505zk_2C.b/409gSEQ-PEM1.d

Date : 21-MAY-2010 11:13

Client ID: PEMRX

Instrument: tracegc84.i

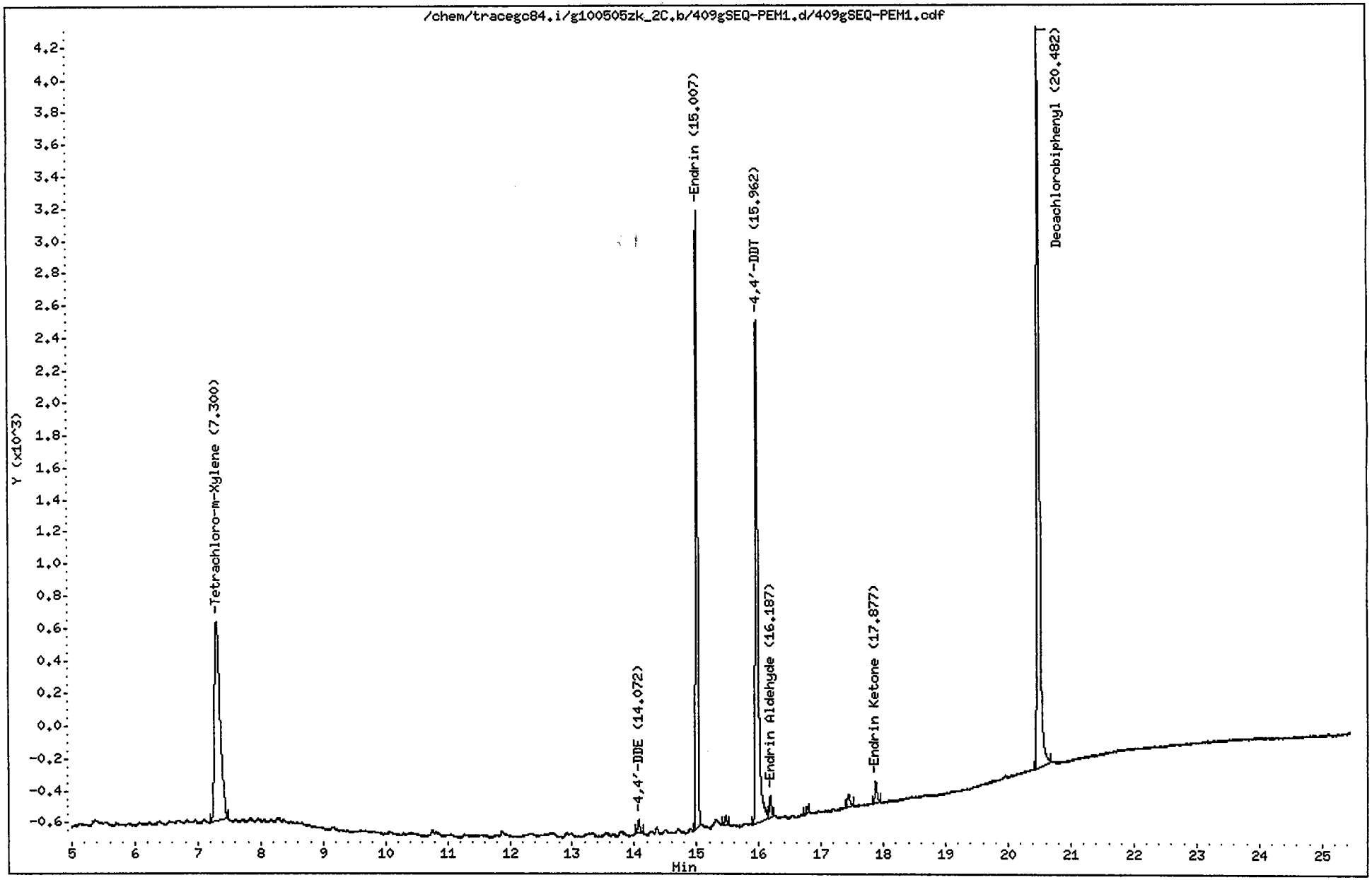
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMRX
Sample Type : SAMPLE Sublist : PEM
Inj Date : 21-MAY-2010 11:13 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : PEMRX

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.35			1918								
7.30	7.24	7.38	7726	407875	Tetrachloro-m-Xylene	0.018942	0.018942		95.7	43 - 135	
14.07	14.01	14.15	217	453016	4,4'-DDE	0.000479	0.000479	0.020000			J
15.01	14.94	15.08	8500	402899	Endrin	0.021096	0.021096	0.020000			
15.47			142								
15.96	15.89	16.03	9464	365509	4,4'-DDT	0.025892	0.025892	0.020000			
16.19	16.12	16.26	312	284671	Endrin Aldehyde	0.001097	0.001097	0.020000			J
16.77			99								
17.44			250								
17.88	17.81	17.95	332	383354	Endrin Ketone	0.000865	0.000865	0.020000			J
20.48	20.41	20.55	13300	358404	Decachlorobiphenyl	0.037109	0.037109		93.7	43 - 144	

Data File: /chem/tracegc84.i/g100505z1.b/418gSEQ-CCV2.d

Page 1

Date : 21-MAY-2010 15:33

Client ID: AR1606O3RZ

Instrument: tracegc84.i

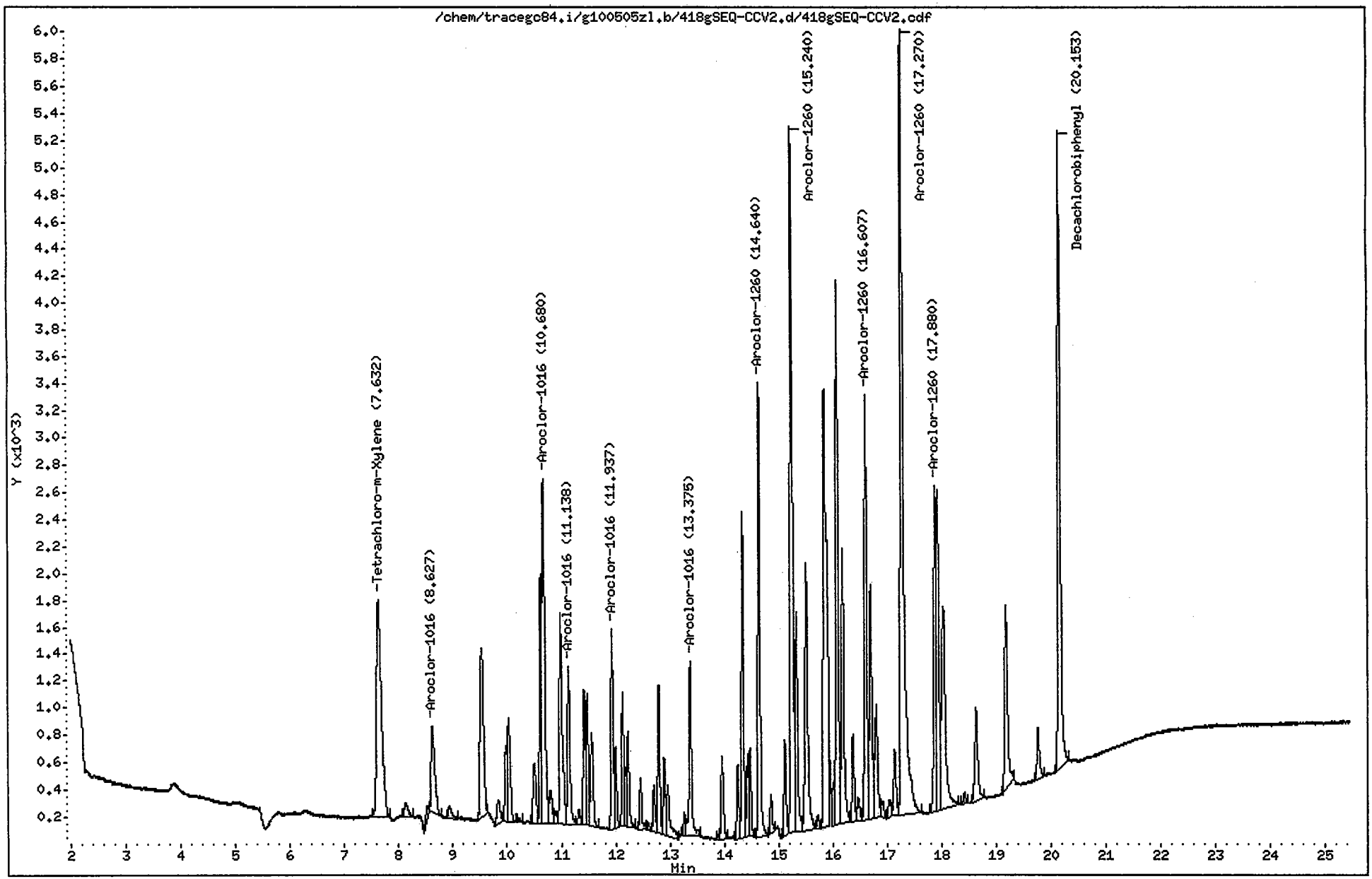
Sample Info: SEQ-CCV2 TAJ 6/7/10

Volume Injected (uL): 1.0

Operator: AHW

Column phase: olpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : AR16603RZ
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 21-MAY-2010 15:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zl.b/8081A_clpestv6.m
Misc. Info : AR16603RZ

TAJ 6/7/10

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
0.39			84								
1.06			73								
1.44			33450								
7.63	7.59	7.73	10059	511075	Tetrachloro-m-Xylene	0.020000	501015	2.0	20.0		
8.14			554								
8.53			356								
8.63	8.59	8.73	2936	7539	Aroclor-1016 Peak 1	0.400000	7340.000	2.6	20.0		
8.94			393								
9.54			5818								
9.84			694								
9.98			1449								
10.04			2766								
10.22			101								
10.51			1746								
10.63			4551								
10.68	10.64	10.78	8954	22169	Aroclor-1016 Peak 2	0.400000	22383	-1.0	20.0		
10.80			891								
10.89			293								
10.99			5696								
11.14	11.09	11.23	3672	9219	Aroclor-1016 Peak 3	0.400000	9177.500	0.5	20.0		
11.32			287								
11.42			2525								
11.48			2720								
11.56			2224								
11.94	11.90	12.04	3917	10369	Aroclor-1016 Peak 4	0.400000	9790.000	5.6	20.0		
12.00			1551								
12.13			2520								
12.19			779								
12.23			2081								
12.46			1047								
12.61			111								
12.71			896								
12.80			2867								
12.90			1580								
12.96			1539								
13.27			376								
13.38	13.33	13.47	3932	8754	Aroclor-1016 Peak 5	0.400000	9830.000	-12.3	20.0		
13.89			71								
13.96			1867								
14.25			1396								
14.34			6160								
14.43			1507								

AHW
5/25/10

CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id :
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 21-MAY-2010 15:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zl.b/8081A_clpestv6.m
Misc. Info : AR16603RZ

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
14.47		1605								
14.64	14.60 14.74	9015	23830	Aroclor-1260 Peak 1	0.400000	22535	5.4	20.0		
14.86		741								
15.12		1896								
15.24	15.20 15.34	16711	47256	Aroclor-1260 Peak 2	0.400000	41775	11.6	20.0		
15.33		4860								
15.51		7100								
15.72		271								
15.85		15171								
16.00		860								
16.08		11598								
16.18		6444								
16.37		1738								
16.47		581								
16.61	16.57 16.71	9187	24838	Aroclor-1260 Peak 3	0.400000	22967	7.5	20.0		
16.70		5326								
16.80		3323								
16.92		472								
17.03		487								
17.14		1537								
17.27	17.22 17.36	24263	57780	Aroclor-1260 Peak 4	0.400000	60657	-5.0	20.0		
17.88	17.82 17.96	6944	26453	Aroclor-1260 Peak 5	0.400000	17357	34.4*	20.0	R	
17.93		7395								
18.03		7526								
18.42		234								
18.63		2584								
19.18		5006								
19.76		1195								
20.15	20.11 20.25	14415	372435	Decachlorobiphenyl	0.040000	358520	3.7	20.0		

Data File: /chem/tracegc84.i/g100505z1.b/419gSEQ-CCV3.d

Date : 21-MAY-2010 16:02

Client ID: INDC3RZ

Sample Info: SEQ-CCV3

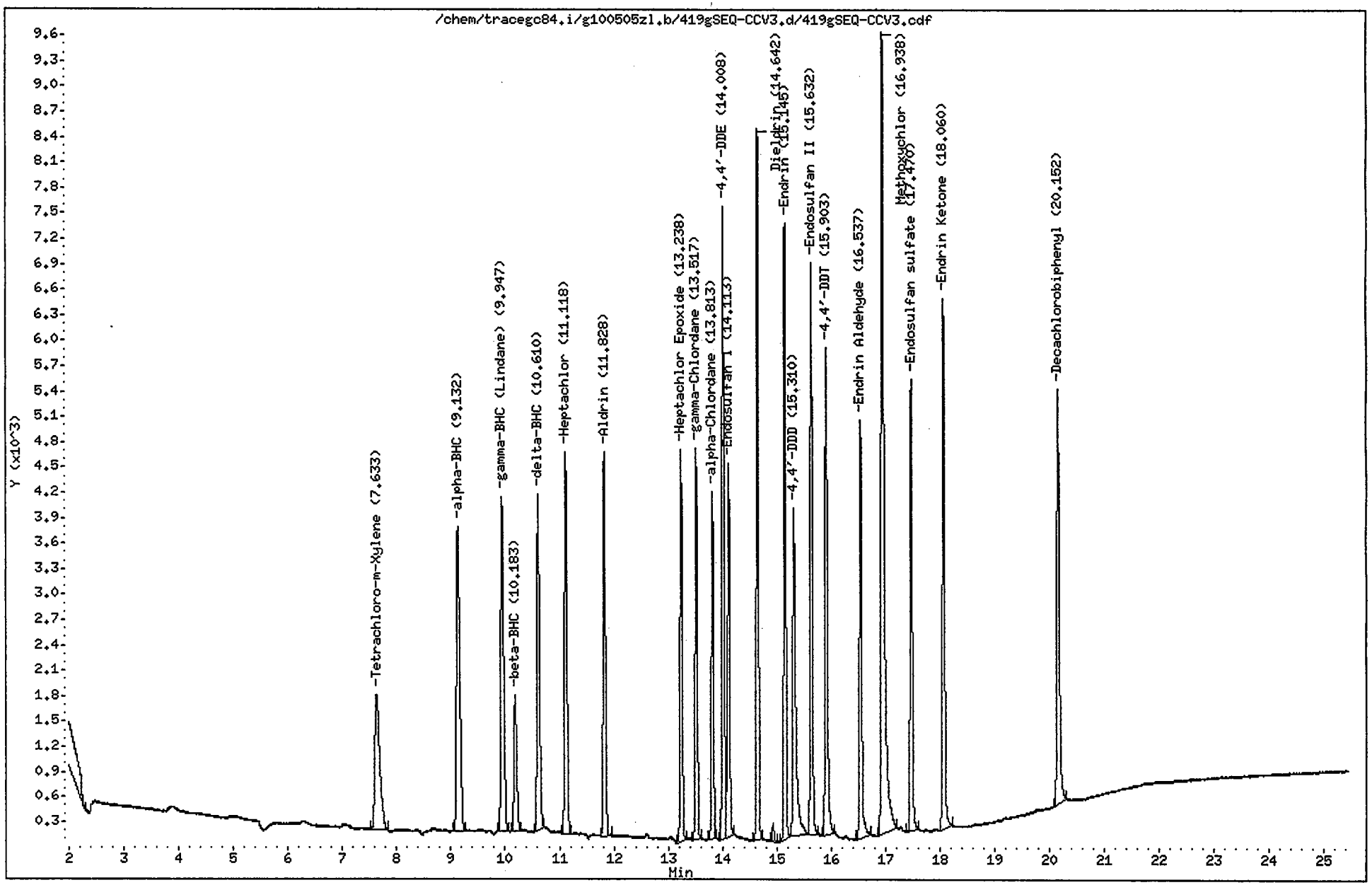
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3RZ
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 21-MAY-2010 16:02 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zl.b/8081A_clpestv6.m
Misc. Info : INDC3RZ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.31			414								
1.43			73019								
7.63	7.59	7.73	10270	511075	Tetrachloro-m-Xylene	0.020000	513450	-0.5	20.0		
9.13	9.09	9.23	15297	776175	alpha-BHC	0.020000	764800	1.5	20.0		
9.95	9.91	10.05	14349	725352	gamma-BHC (Lindane)	0.020000	717400	1.1	20.0		
10.18	10.15	10.29	5636	291225	beta-BHC	0.020000	281800	3.2	20.0		
10.61	10.57	10.71	12725	670705	delta-BHC	0.020000	636250	5.1	20.0		
11.12	11.08	11.22	13860	686315	Heptachlor	0.020000	693000	-1.0	20.0		
11.83	11.79	11.93	12729	627382	Aldrin	0.020000	636400	-1.4	20.0		
13.24	13.20	13.34	11946	585410	Heptachlor Epoxide	0.020000	597300	-2.0	20.0		
13.52	13.48	13.62	11608	579092	gamma-Chlordane	0.020000	580350	-0.2	20.0		
13.81	13.78	13.92	10090	502118	alpha-Chlordane	0.020000	504450	-0.5	20.0		
14.01	13.97	14.11	19342	515756	4,4'-DDE	0.040000	483525	6.2	20.0		
14.11	14.08	14.22	11723	536925	Endosulfan I	0.020000	586150	-9.2	20.0		
14.64	14.61	14.75	20329	512808	Dieldrin	0.040000	508225	0.9	20.0		
14.93			501								
15.14	15.11	15.25	17914	445172	Endrin	0.040000	447850	-0.6	20.0		
15.31	15.27	15.41	14309	381109	4,4'-DDD	0.040000	357725	6.1	20.0		
15.63	15.59	15.73	17070	440985	Endosulfan II	0.040000	426725	3.2	20.0		
15.90	15.86	16.00	16041	433059	4,4'-DDT	0.040000	401025	7.4	20.0		
16.54	16.50	16.64	13518	325624	Endrin Aldehyde	0.040000	337925	-3.8	20.0		
16.94	16.89	17.03	36205	188501	Methoxychlor	0.200000	181025	4.0	20.0		
17.47	17.44	17.58	14126	370954	Endosulfan sulfate	0.040000	353150	4.8	20.0		
18.06	18.03	18.17	16901	439015	Endrin Ketone	0.040000	422500	3.8	20.0		
20.15	20.11	20.25	14551	372435	Decachlorobiphenyl	0.040000	363750	2.3	20.0		

Data File: /chem/tracegc84.i/g100505z1.b/420gSEQ-PEM2.d

Date : 21-MAY-2010 16:31

Client ID: PEMRZ

Instrument: tracegc84.i

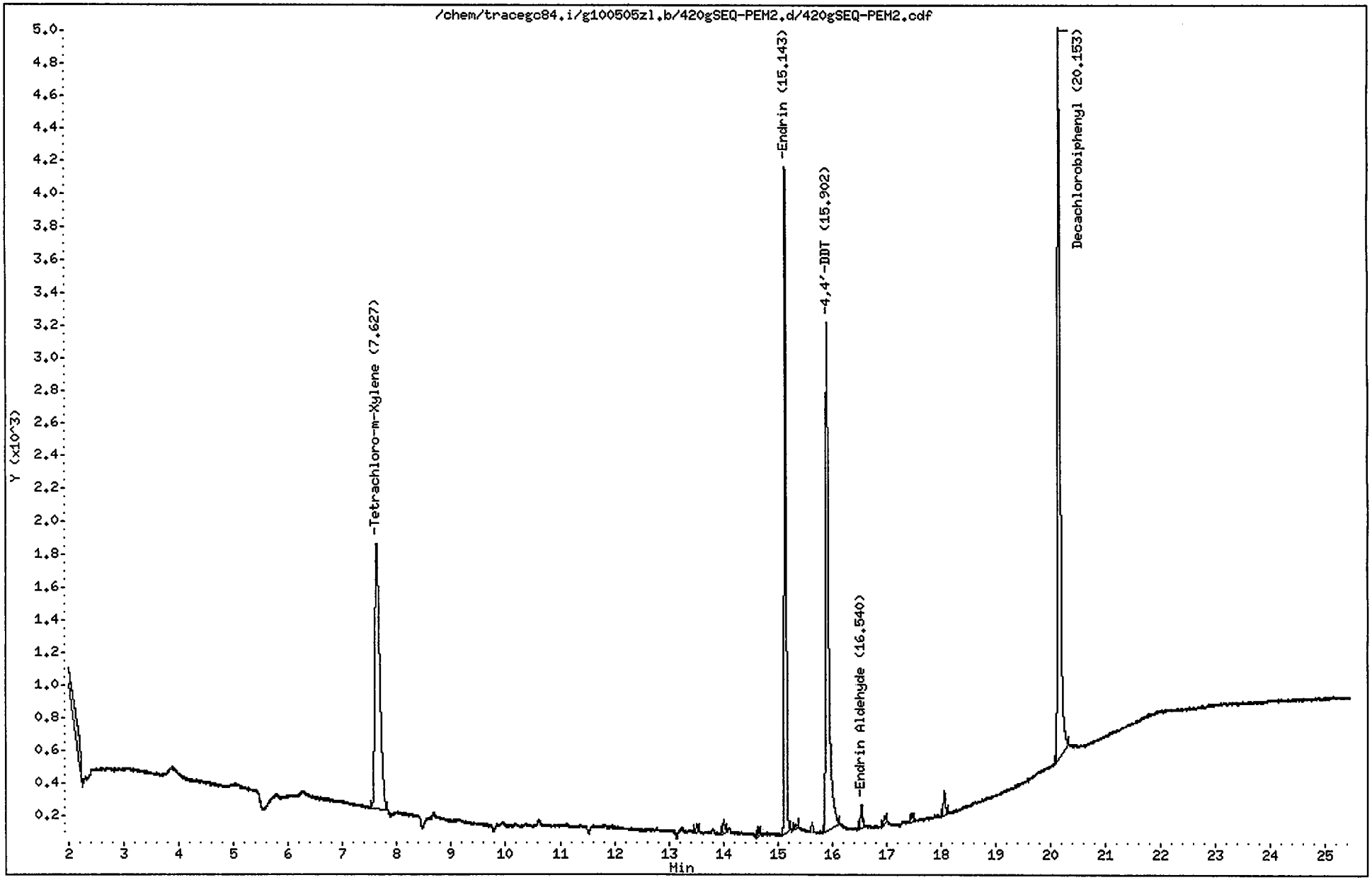
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMRZ
Sample Type : SAMPLE Sublist : PEM
Inj Date : 21-MAY-2010 16:31 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zl.b/8081A_clpestv6.m
Misc. Info : PEMRZ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.41		52119								
7.63	7.59 7.73	10225	511075	Tetrachloro-m-Xylene	0.020007	0.020007		101.0	43 - 135	
13.52		122								
14.01		221								
14.64		124								
15.14	15.11 15.25	10166	445172	Endrin	0.022836	0.022836	0.020000			
15.33		62								
15.90	15.86 16.00	11791	433059	4,4'-DDT	0.027227	0.027227	0.020000			
16.54	16.50 16.64	372	325624	Endrin Aldehyde	0.001142	0.001142	0.020000			J
16.96		184								
17.47		140								
18.06		423								
20.15	20.11 20.25	14380	372435	Decachlorobiphenyl	0.038611	0.038611		97.5	43 - 144	

AHW
5/26/10

Data File: /chem/tracegc84.i/g100505z1_2C.b/418gSEQ-CCV2.d

Date : 21-MAY-2010 15:33

Client ID: AR16603RZ

Sample Info: SEQ-CCV2

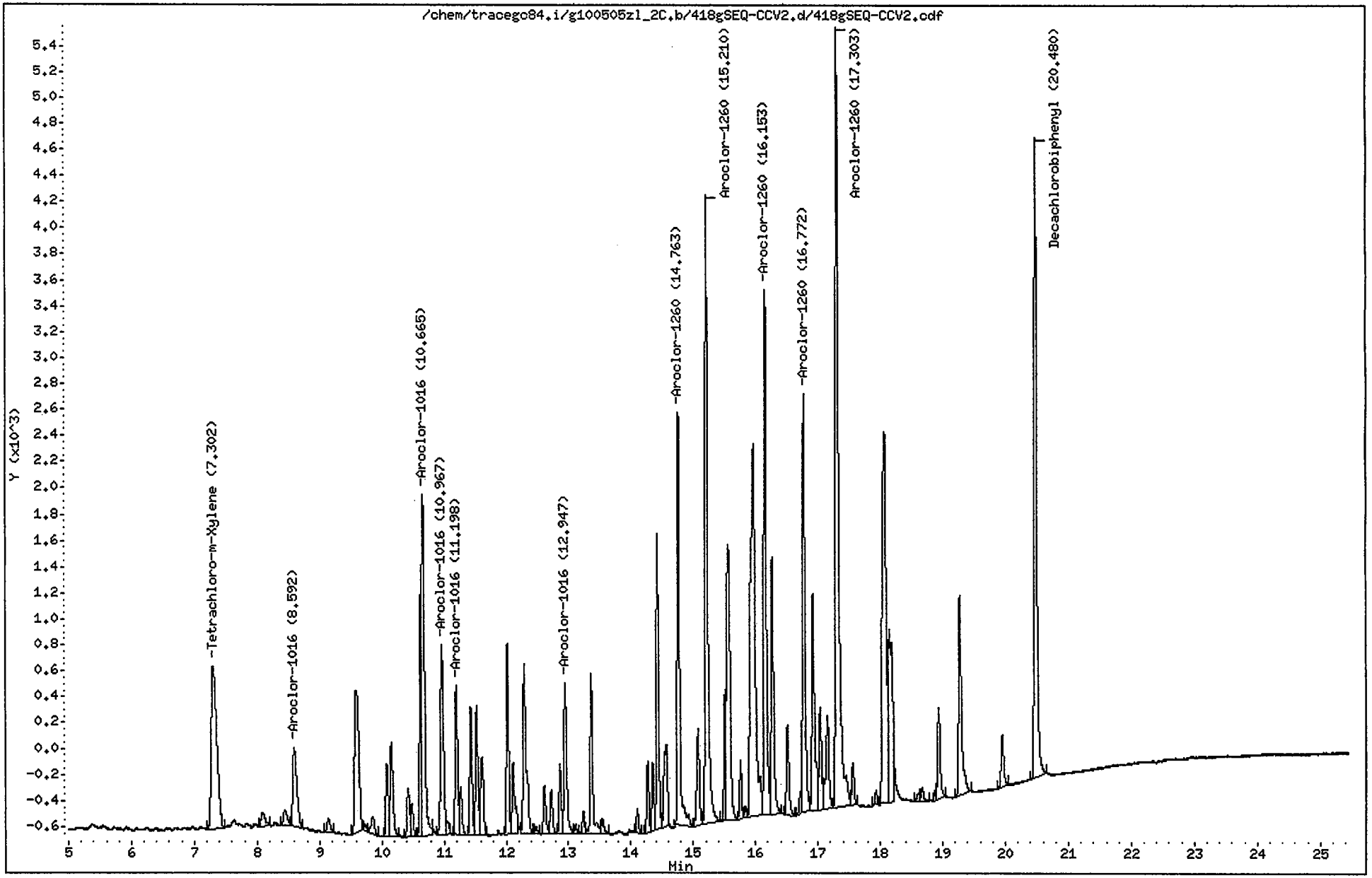
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : AR16603RZ
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 21-MAY-2010 15:33 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zl_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603RZ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.38			6313								
7.30	7.24	7.38	7800	407875	Tetrachloro-m-Xylene	0.020000	390000	4.4	20.0		
8.09			489								
8.44			464								
8.59	8.58	8.72	2673	7292	Aroclor-1016 Peak 1	0.400000	6680.000	8.4	20.0		
9.14			379								
9.59			5164								
9.73			126								
9.85			519								
10.08			1593								
10.15			2267								
10.42			1030								
10.48			694								
10.64			3662								
10.66	10.66	10.80	8513	20647	Aroclor-1016 Peak 2	0.400000	21280	-3.1	20.0	M ZM	
10.97	10.96	11.10	4729	12384	Aroclor-1016 Peak 3	0.400000	11823	4.5	20.0	M ZM	
11.06			249								
11.20	11.19	11.33	2969	8199	Aroclor-1016 Peak 4	0.400000	7422.500	9.5	20.0		
11.27			1024								
11.43			2476								
11.53			2635								
11.61			2033								
12.02			3516								
12.11			1826								
12.29			4479								
12.48			115								
12.61			981								
12.72			853								
12.86			1304								
12.95	12.94	13.08	3420	8243	Aroclor-1016 Peak 5	0.400000	8550.000	-3.7	20.0		
13.12			155								
13.24			416								
13.36			3322								
13.54			340								
14.10			392								
14.27			1269								
14.35			1241								
14.43			5395								
14.54			2418								
14.76	14.76	14.90	8329	21767	Aroclor-1260 Peak 1	0.400000	20823	4.3	20.0		
15.08			2149								
15.21	15.20	15.34	13837	36912	Aroclor-1260 Peak 2	0.400000	34593	6.3	20.0		

pm 5/26/10

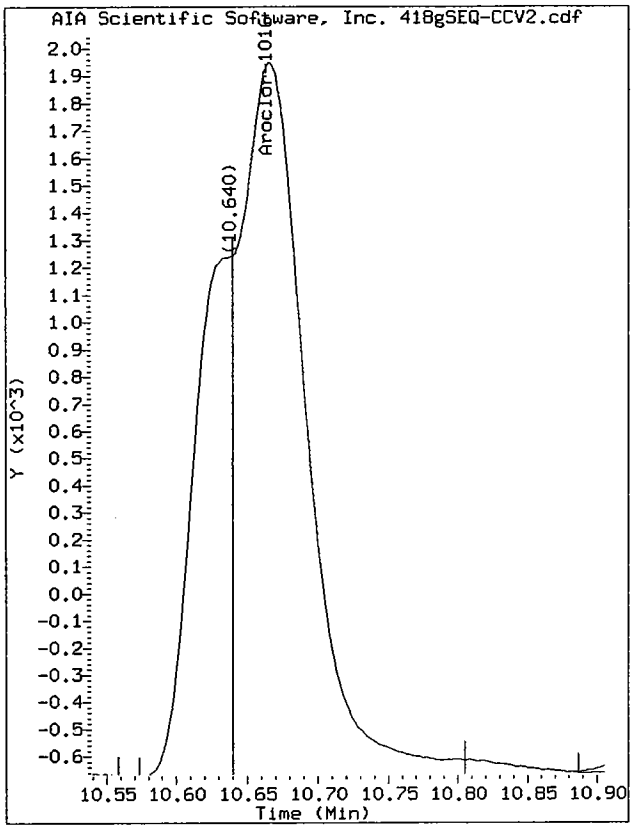
AHW
5/25/10

CompuChem

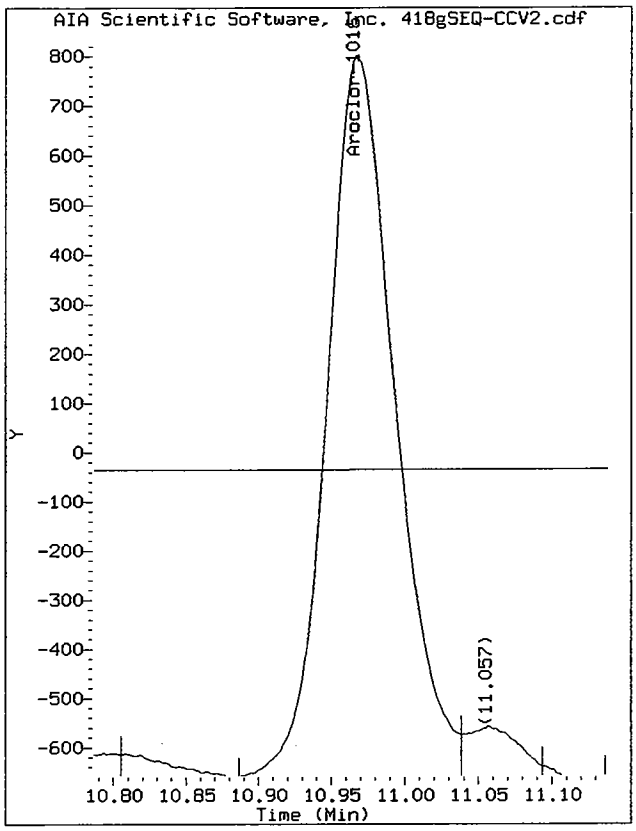
Lab Smp Id : SEQ-CCV2 Client Smp Id : AR16603RZ
Sample Type : CONT CAL: Level 3 Sublist : AR1660
Inj Date : 21-MAY-2010 15:33 Inst ID :
Operator : AHW
Method : /chem/tracegc84.i/g100505zl_2C.b/8081A_clpest2v6.m
Misc. Info : AR16603RZ

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
15.51		1933								
15.56		8388								
15.76		1015								
15.84		187								
15.96		15344								
16.15	16.15 16.29	10614	28538	Aroclor-1260 Peak 3	0.400000	26535	7.0	20.0		
16.27		5452								
16.51		1874								
16.73		323								
16.77	16.77 16.91	8672	23367	Aroclor-1260 Peak 4	0.400000	21680	7.2	20.0		
16.92		5086								
17.03		2161								
17.15		2606								
17.30	17.29 17.43	20893	54848	Aroclor-1260 Peak 5	0.400000	52233	4.8	20.0		
17.56		841								
17.93		191								
18.07		12212								
18.14		6193								
18.60		180								
18.67		283								
18.88		136								
18.93		2015								
19.27		5089								
19.95		1104								
20.48	20.41 20.55	13673	358404	Decachlorobiphenyl	0.040000	341825	4.6	20.0		

Manually Integrated Peaks

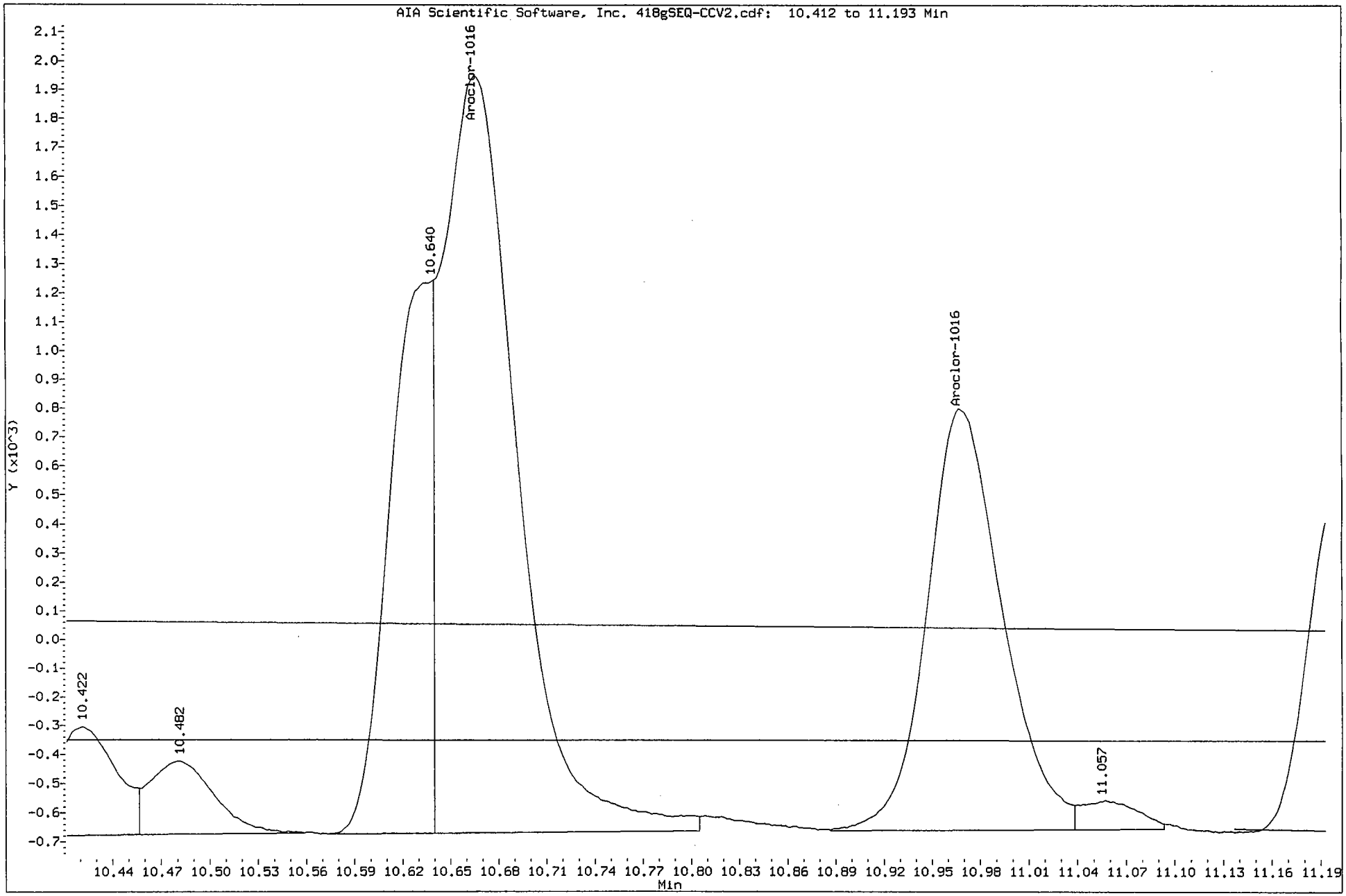


Start: 10.64 Stop: 10.80



Start: 10.89 Stop: 11.04

Data File: /chem/tracegc84.i/g100505z1_2C.b/418gSEQ-CCV2.d/418gSEQ-CCV2.cdf
Injection Date: 21-MAY-2010 15:33
Instrument: tracegc84.i
Client Sample ID: AR16603RZ



Data File: /chem/tracegc84.i/g100505z1_2C.b/420gSEQ-PEM2.d

Date : 21-MAY-2010 16:31

Client ID: PEMRZ

Instrument: tracegc84.i

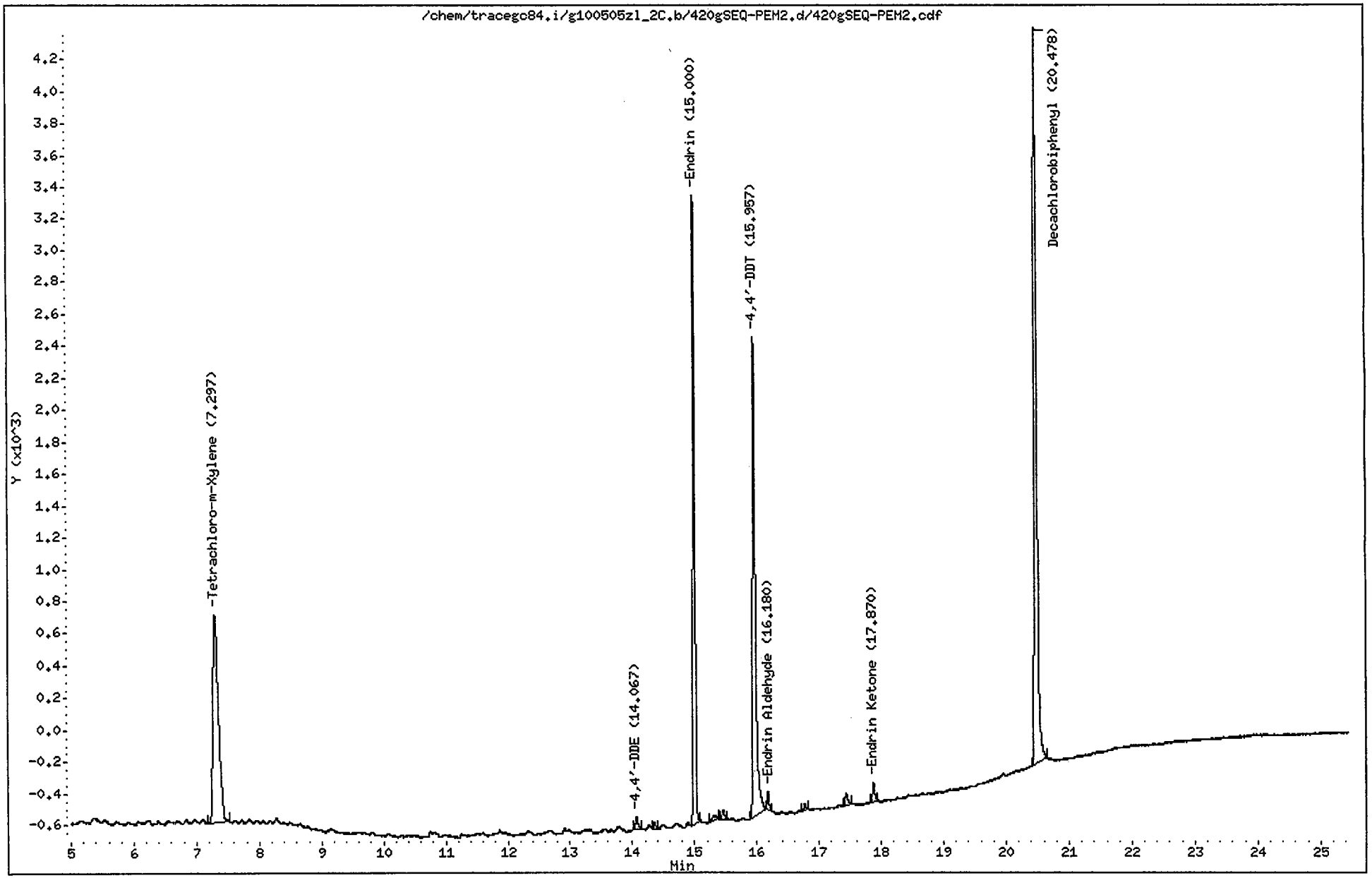
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMRZ
Sample Type : SAMPLE Sublist : PEM
Inj Date : 21-MAY-2010 16:31 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zl_2C.b/8081A_clpest2v6.m
Misc. Info : PEMRZ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.35			1658								
2.33			146								
7.30	7.24	7.38	8103	407875	Tetrachloro-m-Xylene	0.019864	0.019864		100.3	43 - 135	
14.07	14.01	14.15	211	453016	4,4'-DDE	0.000466	0.000466	0.020000			J
14.36			92								
15.00	14.94	15.08	8803	402899	Endrin	0.021847	0.021847	0.020000			
15.31			129								
15.46			145								
15.96	15.89	16.03	9452	365509	4,4'-DDT	0.025857	0.025857	0.020000			
16.18	16.12	16.26	234	284671	Endrin Aldehyde	0.000822	0.000822	0.020000			J
16.76			109								
17.43			233								
17.87	17.81	17.95	310	383354	Endrin Ketone	0.000809	0.000809	0.020000			J
20.48	20.41	20.55	13783	358404	Decachlorobiphenyl	0.038454	0.038454		97.1	43 - 144	

AHW
5/26/10

Data File: /chem/tracegc82.i/e100528.b/003e0E27016-PEM1.d

Date : 28-MAY-2010 18:44

Client ID: PEMDA

Sample Info: 0E27016-PEM1

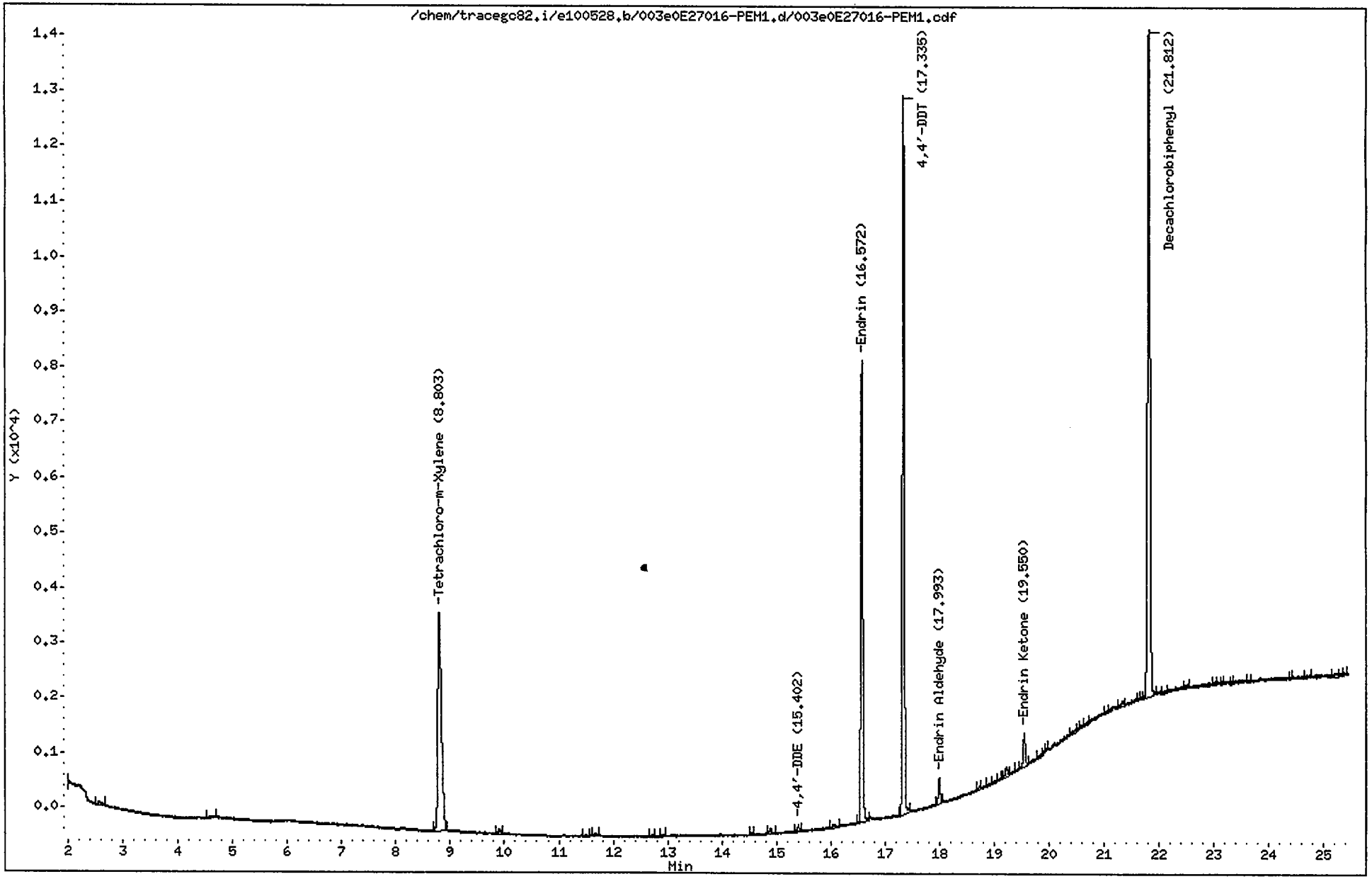
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc82.i

Operator: System

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-PEM1 Client Smp Id : PEMDA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 28-MAY-2010 18:44 Inst ID : TRACEGC82
Operator : System
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : PEMDA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.09			452								
0.33			111								
0.40			101								
1.05			120								
1.46			24809								
2.57			362								
4.63			220								
8.80	8.73	8.87	18945	1040566	Tetrachloro-m-Xylene	0.018206	0.018206		92.0	43 - 135	
9.91			304								
11.48			111								
11.67			181								
12.70			124								
12.89			107								
14.55			134								
14.88			305								
15.40	15.33	15.47	342	1321226	4,4'-DDE	0.000259	0.000259	0.020000			J
16.05			255								
16.57	16.51	16.65	20875	1038264	Endrin	0.020106	0.020106	0.020000			J
17.34	17.27	17.41	30864	1132045	4,4'-DDT	0.027264	0.027264	0.020000			
17.99	17.92	18.06	1184	925036	Endrin Aldehyde	0.001280	0.001280	0.020000			J
18.73			148								
18.95			123								
19.01			101								
19.09			95								
19.23			534								
19.42			107								
19.55	19.48	19.62	1679	1256034	Endrin Ketone	0.001337	0.001337	0.020000			J
19.85			124								
19.93			113								
19.96			98								
20.48			294								
20.54			104								
20.70			197								
21.05			149								
21.34			279								
21.64			95								
21.81	21.75	21.89	37693	1016677	Decachlorobiphenyl	0.037075	0.037075		93.6	43 - 144	

CompuChem

Lab Smp Id : 0E27016-PEM1 Client Smp Id : PEMDA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 28-MAY-2010 18:44 Inst ID :
Operator : System
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : PEMDA

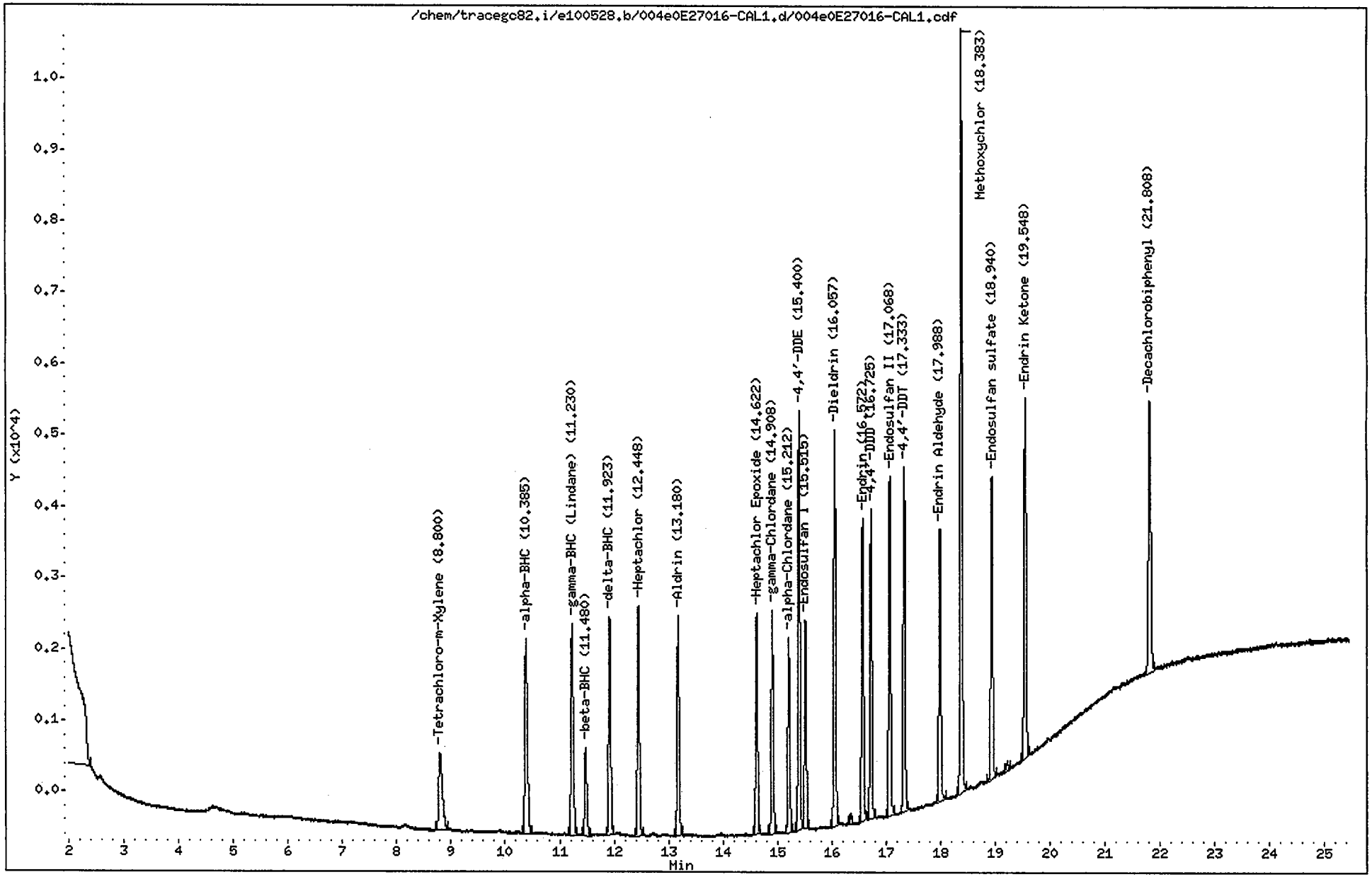
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
22.10		160								
22.48		185								
23.00		123								
23.16		92								
23.33		130								
23.63		127								
24.39		95								
24.70		196								
25.20		285								
25.37		116								

Data File: /chem/tracegc82.i/e100528.b/004e0E27016-CAL1.d
Date : 28-MAY-2010 19:14
Client ID: INDC1DA
Sample Info: 0E27016-CAL1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: BWL
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-CAL1 Client Smp Id : INDC1DA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 28-MAY-2010 19:14 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : INDC1DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.50			226413					
8.80	8.73	8.87	5226	1040566	Tetrachloro-m-Xylene	0.005000	1045000	
10.38	10.32	10.46	9042	1883720	alpha-BHC	0.005000	1808200	
11.23	11.16	11.30	8629	1779425	gamma-BHC (Lindane)	0.005000	1725600	
11.48	11.41	11.55	3465	671198	beta-BHC	0.005000	692800	
11.92	11.85	11.99	8050	1699815	delta-BHC	0.005000	1610000	
12.45	12.38	12.52	8419	1660668	Heptachlor	0.005000	1683800	
13.18	13.11	13.25	7734	1536782	Aldrin	0.005000	1546600	
14.62	14.56	14.70	7431	1449945	Heptachlor Epoxide	0.005000	1486000	
14.91	14.84	14.98	7510	1446418	gamma-Chlordane	0.005000	1502000	
15.21	15.14	15.28	6600	1263455	alpha-Chlordane	0.005000	1319800	
15.40	15.33	15.47	13551	1321226	4,4'-DDE	0.010000	1355000	
15.52	15.45	15.59	6975	1354612	Endosulfan I	0.005000	1394800	
16.06	15.99	16.13	13517	1325039	Dieldrin	0.010000	1351600	
16.34			335					
16.57	16.50	16.64	10449	1038264	Endrin	0.010000	1044900	
16.72	16.66	16.80	10057	1003289	4,4'-DDD	0.010000	1005700	
17.07	17.00	17.14	11807	1146620	Endosulfan II	0.010000	1180700	
17.33	17.27	17.41	11539	1132045	4,4'-DDT	0.010000	1153900	
17.99	17.92	18.06	9563	925036	Endrin Aldehyde	0.010000	956300	
18.38	18.32	18.46	25382	476818	Methoxychlor	0.050000	507640	
18.94	18.87	19.01	10687	1022702	Endosulfan sulfate	0.010000	1068600	
19.23			295					
19.55	19.48	19.62	13147	1256034	Endrin Ketone	0.010000	1314600	
21.81	21.74	21.88	11597	1016677	Decachlorobiphenyl	0.010000	1159700	

Data File: /chem/tracegc82.i/e100528.b/005e0E27016-CAL2.d

Page 1

Date : 28-MAY-2010 19:43

Client ID: INDC2DA

Instrument: tracegc82.i

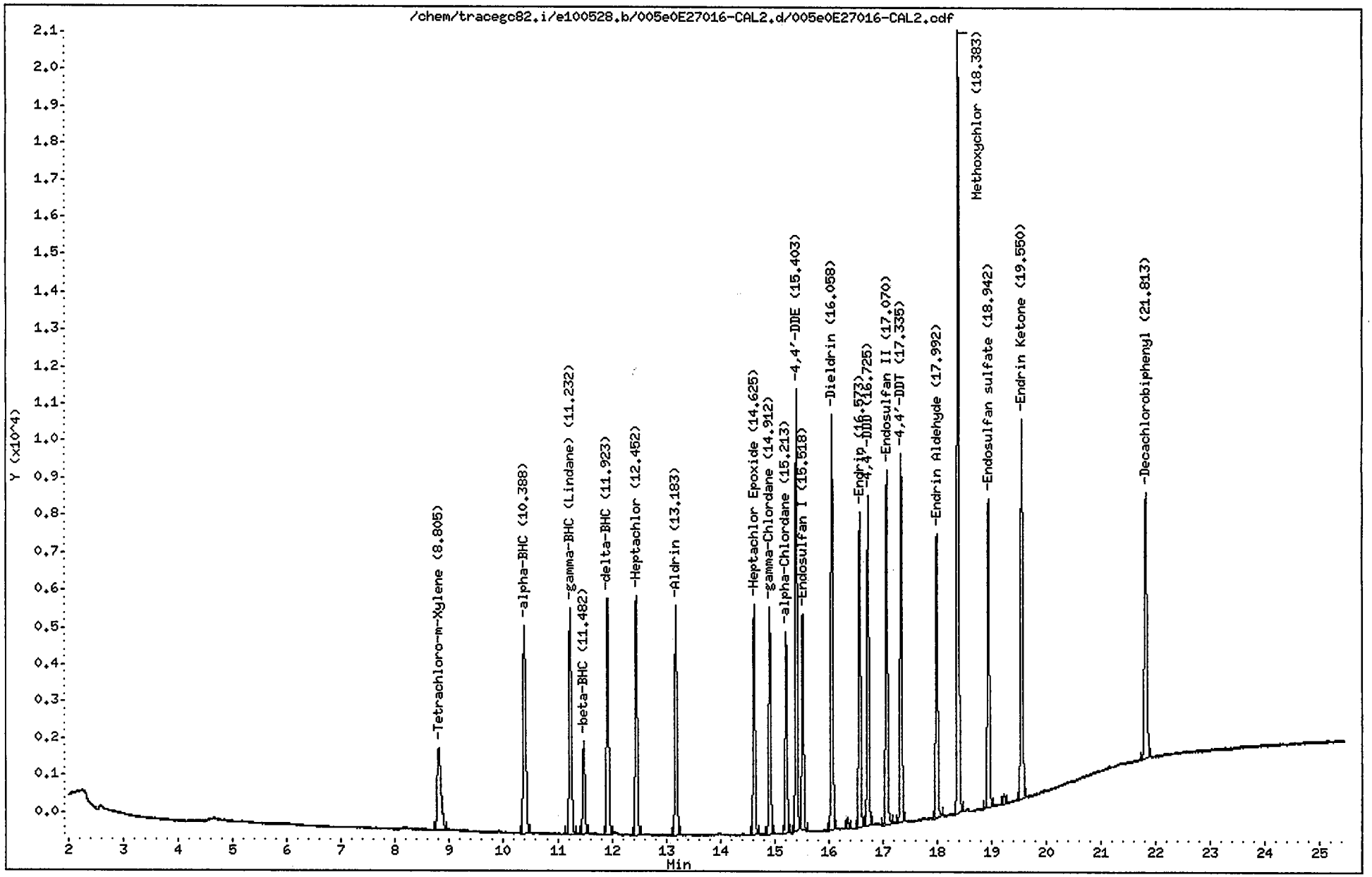
Sample Info: 0E27016-CAL2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



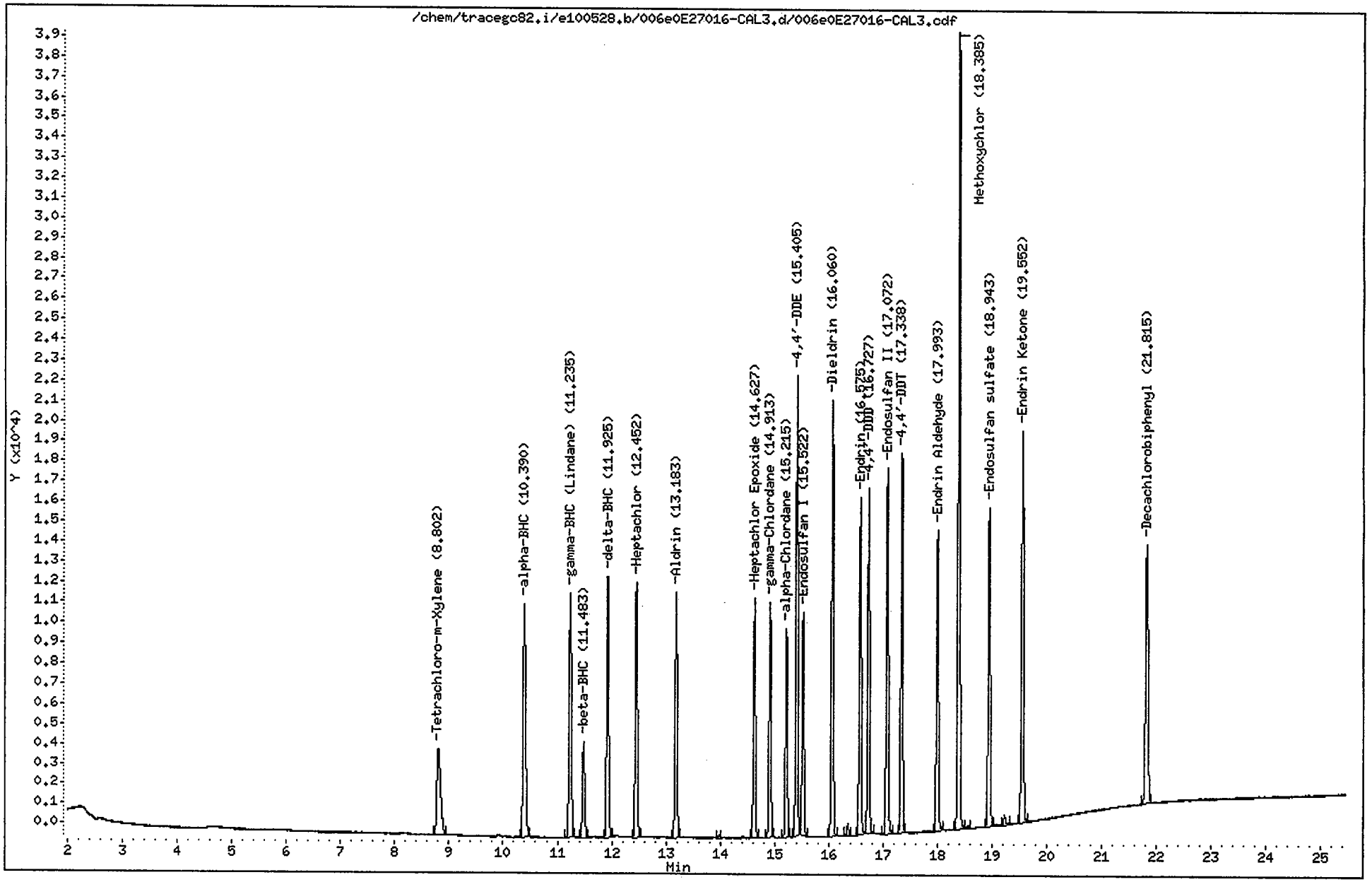
CompuChem

Lab Smp Id : 0E27016-CAL2 Client Smp Id : INDC2DA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 28-MAY-2010 19:43 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : INDC2DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.37			309					
1.46			17250					
8.80	8.73	8.87	10684	1040566	Tetrachloro-m-Xylene	0.010000	1068400	
10.39	10.32	10.46	18711	1883720	alpha-BHC	0.010000	1871100	
11.23	11.16	11.30	17869	1779425	gamma-BHC (Lindane)	0.010000	1786800	
11.48	11.41	11.55	6874	671198	beta-BHC	0.010000	687400	
11.92	11.85	11.99	16897	1699815	delta-BHC	0.010000	1689700	
12.45	12.38	12.52	16985	1660668	Heptachlor	0.010000	1698500	
13.18	13.11	13.25	15772	1536782	Aldrin	0.010000	1577100	
14.62	14.56	14.70	14985	1449945	Heptachlor Epoxide	0.010000	1498500	
14.91	14.84	14.98	15005	1446418	gamma-Chlordane	0.010000	1500500	
15.21	15.14	15.28	13109	1263455	alpha-Chlordane	0.010000	1310800	
15.40	15.33	15.47	27066	1321226	4,4'-DDE	0.020000	1353300	
15.52	15.45	15.59	13988	1354612	Endosulfan I	0.010000	1398800	
16.06	15.99	16.13	27106	1325039	Dieldrin	0.020000	1355300	
16.35			759					
16.57	16.50	16.64	21315	1038264	Endrin	0.020000	1065750	
16.72	16.66	16.80	20565	1003289	4,4'-DDD	0.020000	1028200	
17.07	17.00	17.14	23614	1146620	Endosulfan II	0.020000	1180700	
17.34	17.27	17.41	23211	1132045	4,4'-DDT	0.020000	1160500	
17.99	17.92	18.06	19235	925036	Endrin Aldehyde	0.020000	961750	
18.38	18.32	18.46	50230	476818	Methoxychlor	0.100000	502290	
18.94	18.87	19.01	21396	1022702	Endosulfan sulfate	0.020000	1069800	
19.22			649					
19.55	19.48	19.62	26169	1256034	Endrin Ketone	0.020000	1308450	
21.81	21.74	21.88	22191	1016677	Decachlorobiphenyl	0.020000	1109550	

Data File: /chem/tracegc82.i/e100528.b/006e0E27016-CAL3.d
Date : 28-MAY-2010 20:12
Client ID: INDC3DA
Sample Info: 0E27016-CAL3
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: System
Column diameter: 0.32



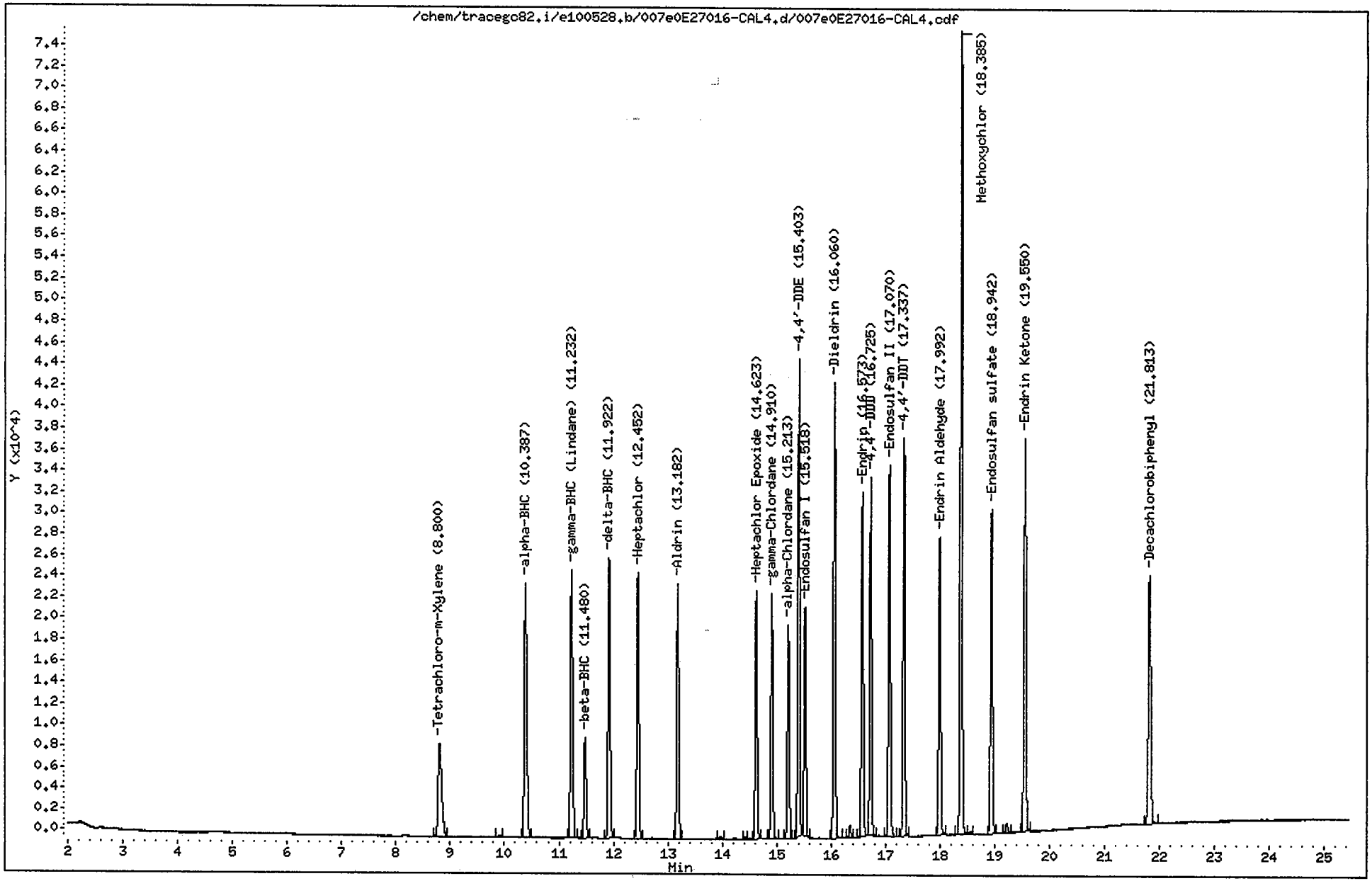
CompuChem

Lab Smp Id : 0E27016-CAL3 Client Smp Id : INDC3DA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 28-MAY-2010 20:12 Inst ID : TRACEGC82
Operator : System
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : INDC3DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.48			2770					
8.80	8.73	8.87	20612	1040566	Tetrachloro-m-Xylene	0.020000	1030550	
10.39	10.32	10.46	37112	1883720	alpha-BHC	0.020000	1855600	
11.24	11.16	11.30	34969	1779425	gamma-BHC (Lindane)	0.020000	1748400	
11.48	11.41	11.55	13277	671198	beta-BHC	0.020000	663800	
11.92	11.85	11.99	33649	1699815	delta-BHC	0.020000	1682400	
12.45	12.38	12.52	32710	1660668	Heptachlor	0.020000	1635500	
13.18	13.11	13.25	30366	1536782	Aldrin	0.020000	1518300	
13.98			347					
14.63	14.56	14.70	28573	1449945	Heptachlor Epoxide	0.020000	1428650	
14.91	14.84	14.98	28260	1446418	gamma-Chlordane	0.020000	1413000	
15.22	15.14	15.28	24865	1263455	alpha-Chlordane	0.020000	1243250	
15.40	15.33	15.47	51879	1321226	4,4'-DDE	0.040000	1296950	
15.52	15.45	15.59	26645	1354612	Endosulfan I	0.020000	1332200	
16.06	15.99	16.13	52150	1325039	Dieldrin	0.040000	1303750	
16.35			1371					
16.58	16.50	16.64	41144	1038264	Endrin	0.040000	1028600	
16.73	16.66	16.80	39577	1003289	4,4'-DDD	0.040000	989400	
17.07	17.00	17.14	45461	1146620	Endosulfan II	0.040000	1136525	
17.34	17.27	17.41	44659	1132045	4,4'-DDT	0.040000	1116475	
17.99	17.92	18.06	37510	925036	Endrin Aldehyde	0.040000	937750	
18.38	18.32	18.46	95348	476818	Methoxychlor	0.200000	476735	
18.56			469					
18.94	18.87	19.01	40490	1022702	Endosulfan sulfate	0.040000	1012225	
19.23			1218					
19.55	19.48	19.62	49698	1256034	Endrin Ketone	0.040000	1242425	
21.82	21.74	21.88	40085	1016677	Decachlorobiphenyl	0.040000	1002125	

Data File: /chem/tracegc82.i/e100528.b/007e0E27016-CAL4.d
Date : 28-MAY-2010 20:41
Client ID: INDC4DA
Sample Info: 0E27016-CAL4
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: BWL
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-CAL4 Client Smp Id : INDC4DA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 28-MAY-2010 20:41 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : INDC4DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.47			26815					
8.80	8.73	8.87	40675	1040566	Tetrachloro-m-Xylene	0.040000	1016850	
9.91			637					
10.39	10.32	10.46	75630	1883720	alpha-BHC	0.040000	1890750	
11.23	11.16	11.30	70953	1779425	gamma-BHC (Lindane)	0.040000	1773825	
11.48	11.41	11.55	25905	671198	beta-BHC	0.040000	647625	
11.92	11.85	11.99	68259	1699815	delta-BHC	0.040000	1706450	
12.45	12.38	12.52	64490	1660668	Heptachlor	0.040000	1612250	
13.18	13.11	13.25	59772	1536782	Aldrin	0.040000	1494300	
13.98			648					
14.42			354					
14.62	14.56	14.70	55991	1449945	Heptachlor Epoxide	0.040000	1399775	
14.91	14.84	14.98	55567	1446418	gamma-Chlordane	0.040000	1389175	
15.21	15.14	15.28	48304	1263455	alpha-Chlordane	0.040000	1207600	
15.40	15.33	15.47	102070	1321226	4,4'-DDE	0.080000	1275863	
15.52	15.45	15.59	51692	1354612	Endosulfan I	0.040000	1292300	
16.06	15.99	16.13	103188	1325039	Dieldrin	0.080000	1289837	
16.35			2627					
16.57	16.50	16.64	80136	1038264	Endrin	0.080000	1001700	
16.72	16.66	16.80	78266	1003289	4,4'-DDD	0.080000	978325	
17.07	17.00	17.14	88588	1146620	Endosulfan II	0.080000	1107350	
17.34	17.27	17.41	87731	1132045	4,4'-DDT	0.080000	1096637	
17.99	17.92	18.06	70295	925036	Endrin Aldehyde	0.080000	878687	
18.38	18.32	18.46	181550	476818	Methoxychlor	0.400000	453875	
18.56			779					
18.94	18.87	19.01	77915	1022702	Endosulfan sulfate	0.080000	973925	
19.22			2220					
19.55	19.48	19.62	95797	1256034	Endrin Ketone	0.080000	1197463	
21.81	21.74	21.88	73434	1016677	Decachlorobiphenyl	0.080000	917925	

6/11/10

Data File: /chem/tracegc82.i/e100528.b/008e0E27016-CAL5.d

Date : 28-MAY-2010 21:10

Client ID: INDC5DA

Sample Info: 0E27016-CAL5

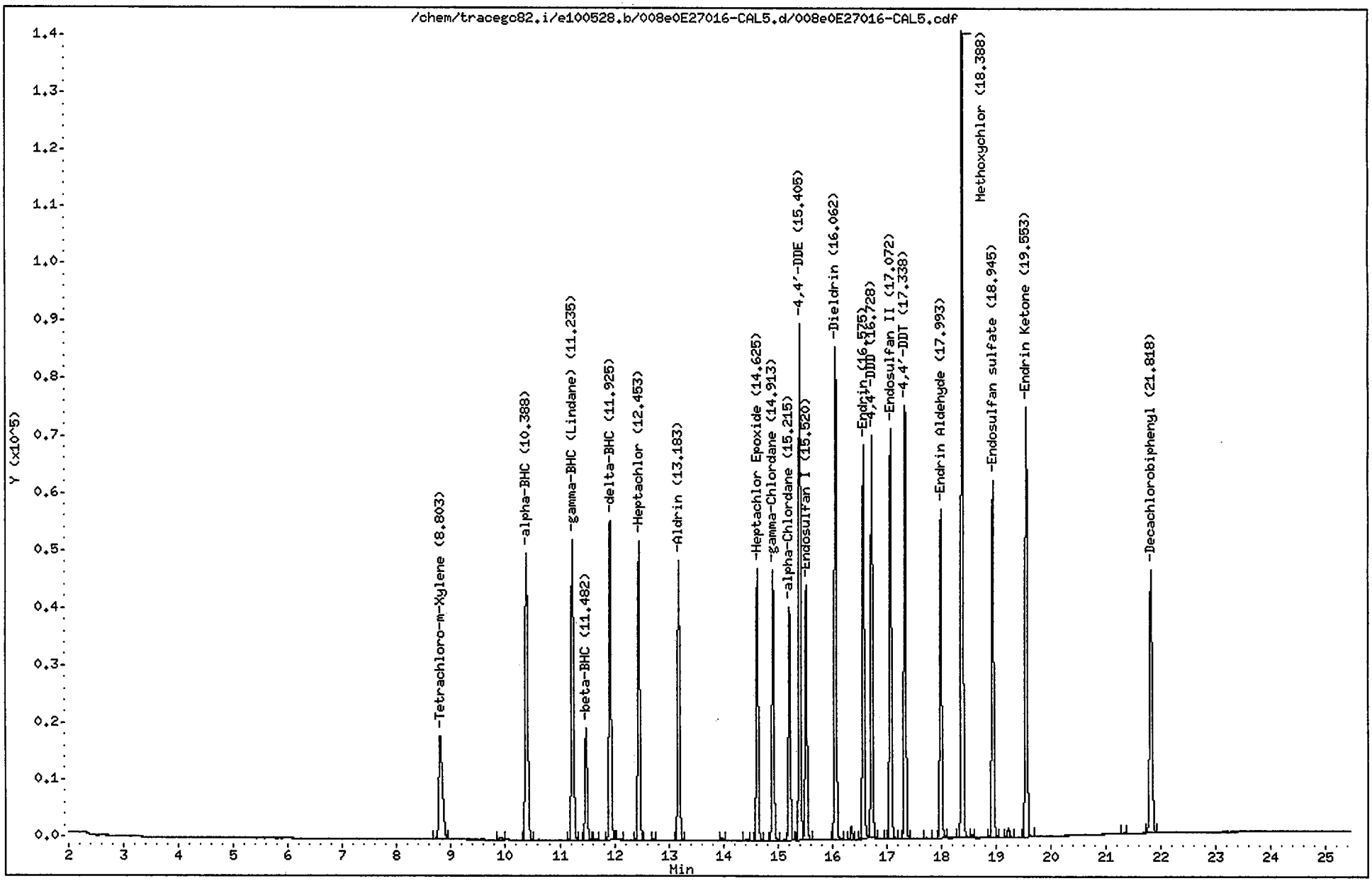
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-CAL5 Client Smp Id : INDC5DA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 28-MAY-2010 21:10 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : INDC5DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.04			339					
1.49			3862					
8.80	8.73	8.87	83362	1040566	Tetrachloro-m-Xylene	0.080000	1042025	
9.90			1271					
10.39	10.32	10.46	159436	1883720	alpha-BHC	0.080000	1992950	
11.24	11.16	11.30	149000	1779425	gamma-BHC (Lindane)	0.080000	1862500	
11.48	11.41	11.55	53150	671198	beta-BHC	0.080000	664363	
11.66			512					
11.92	11.85	11.99	144843	1699815	delta-BHC	0.080000	1810525	
12.09			553					
12.45	12.38	12.52	133863	1660668	Heptachlor	0.080000	1673287	
12.72			362					
13.18	13.11	13.25	123810	1536782	Aldrin	0.080000	1547613	
13.98			1283					
14.42			767					
14.62	14.56	14.70	114945	1449945	Heptachlor Epoxide	0.080000	1436800	
14.91	14.84	14.98	114193	1446418	gamma-Chlordane	0.080000	1427413	
15.22	15.14	15.28	98866	1263455	alpha-Chlordane	0.080000	1235825	
15.40	15.33	15.47	212003	1321226	4,4'-DDE	0.160000	1325019	
15.52	15.45	15.59	108398	1354612	Endosulfan I	0.080000	1354963	
16.06	15.99	16.13	211954	1325039	Dieldrin	0.160000	1324706	
16.35			5422					
16.58	16.50	16.64	168060	1038264	Endrin	0.160000	1050369	
16.73	16.66	16.80	162372	1003289	4,4'-DDD	0.160000	1014819	
16.88			502					
17.07	17.00	17.14	180452	1146620	Endosulfan II	0.160000	1127825	
17.34	17.27	17.41	181234	1132045	4,4'-DDT	0.160000	1132713	
17.73			462					
17.99	17.92	18.06	142511	925036	Endrin Aldehyde	0.160000	890694	
18.39	18.32	18.46	354838	476818	Methoxychlor	0.800000	443547	
18.56			1478					
18.94	18.87	19.01	158235	1022702	Endosulfan sulfate	0.160000	988963	
19.23			4176					
19.55	19.48	19.62	194758	1256034	Endrin Ketone	0.160000	1217231	
21.33			475					
21.82	21.74	21.88	143053	1016677	Decachlorobiphenyl	0.160000	894081	

6/1/10

Data File: /chem/tracegc82.i/e100528.b/009e0E27016-ARC1.d

Page 1

Date : 28-MAY-2010 21:39

Client ID: TOXAPH3DA

Instrument: tracegc82.i

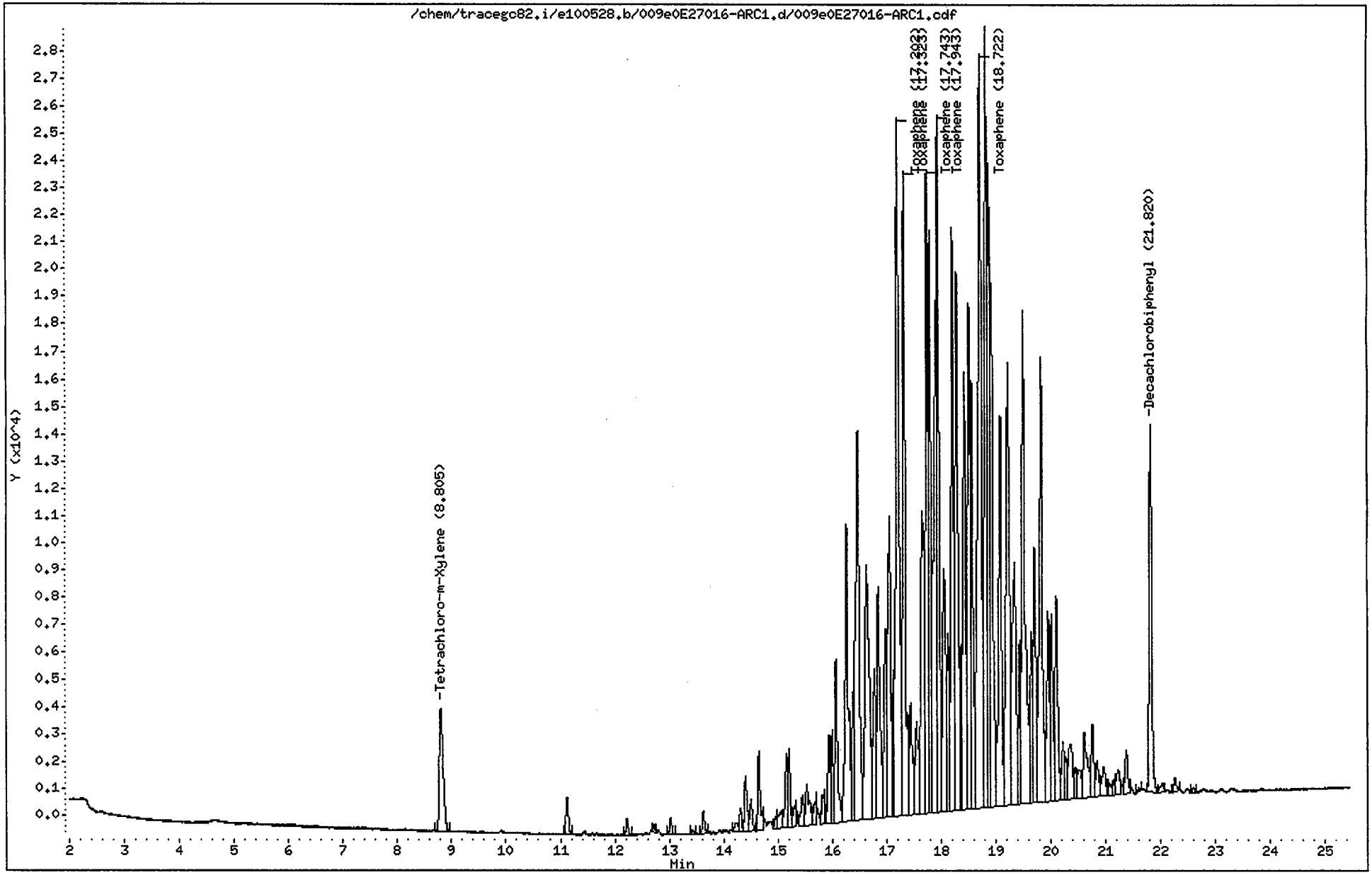
Sample Info: 0E27016-ARC1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-ARC1 Client Smp Id : TOXAPH3DA
Sample Type : INITIAL CAL: Level 1 Sublist : TOXAPH
Inj Date : 28-MAY-2010 21:39 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : TOXAPH3DA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.48		3323					
8.80	8.73 8.87	21986	1040566	Tetrachloro-m-Xylene	0.005000	1045000	
11.13		4237					
12.22		1539					
12.72		633					
13.03		1607					
13.43		454					
13.63		2363					
14.23		1307					
14.31		2384					
14.40		6912					
14.50		3472					
14.65		9158					
14.96		1321					
15.02		2997					
15.16		8077					
15.21		7753					
15.31		2735					
15.45		4339					
15.53		7326					
15.70		2663					
15.82		3662					
15.94		9905					
16.00		9470					
16.07		19994					
16.27		43448					
16.39		10839					
16.47		70031					
16.63		52483					
16.78		20211					
16.84		32766					
16.99		25244					
17.05		40445					
17.13		12685					
17.20	17.13 17.27	105669	131294	Toxaphene Peak 1	0.500000	211336	
17.32	17.25 17.39	77130	95678	Toxaphene Peak 2	0.500000	154258	
17.44		16217					
17.55		13655					
17.66		52851					
17.74	17.67 17.81	63363	78631	Toxaphene Peak 3	0.500000	126724	
17.80		66306					
17.90		63619					

Zn

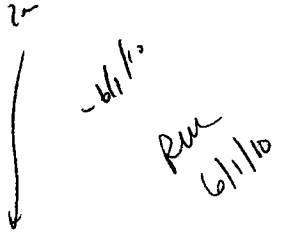
BWL 6/1/10

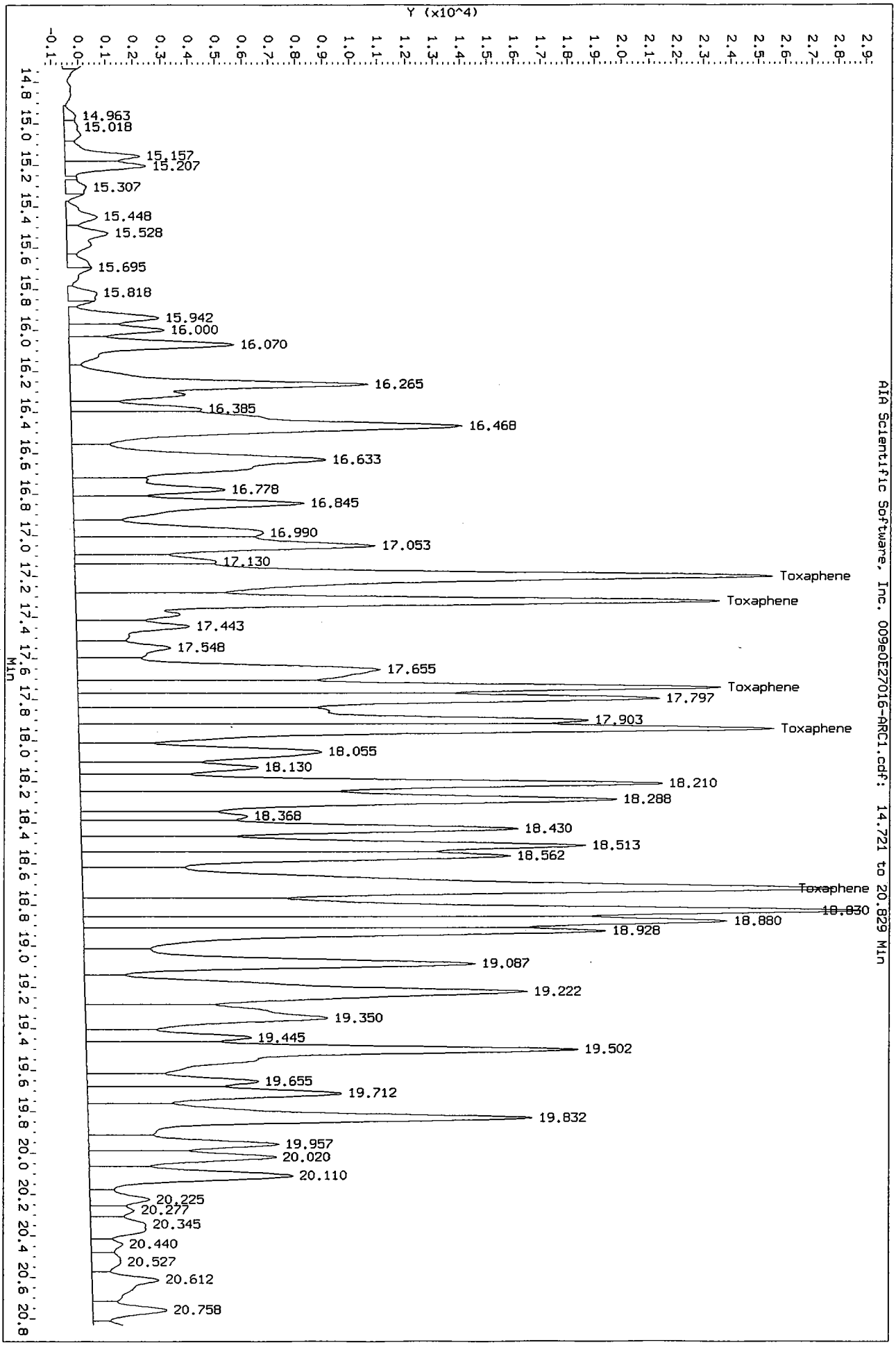
CLL/10

CompuChem

Lab Smp Id : 0E27016-ARC1 Client Smp Id : TOXAPH3DA
Sample Type : INITIAL CAL: Level 1 Sublist : TOXAPH
Inj Date : 28-MAY-2010 21:39 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : TOXAPH3DA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
17.94	17.87 18.01	77165	95768	Toxaphene Peak 4	0.500000	154328	
18.05		36381					
18.13		19348					
18.21		65577					
18.29		73074					
18.37		14849					
18.43		50219					
18.51		59571					
18.56		47904					
18.72	18.65 18.79	126049	156727	Toxaphene Peak 5	0.500000	252098	
18.83		98527					
18.88		67364					
18.93		58694					
19.09		50711					
19.22		73578					
19.35		44542					
19.45		16199					
19.50		74222					
19.66		19008					
19.71		32048					
19.83		63631					
19.96		21926					
20.02		21685					
20.11		26997					
20.23		7225					
20.28		4541					
20.34		10703					
20.44		3920					
20.53		5168					
20.61		12710					
20.76		9197					
20.84		5002					
20.97		4911					
21.08		1332					
21.16		1588					
21.23		3848					
21.37		5840					
21.60		311					
21.82	21.74 21.88	43233	1016677	Decachlorobiphenyl	0.010000	1159700	
22.03		1310					
22.25		1822					
22.60		525					




Data File: /chem/tracegc82.i/e100528.b/009e0E27016-ARC1.d/009e0E27016-ARC1.cdf
Injection Date: 28-MAY-2010 21:39
Instrument: tracegc82.i
Client Sample ID: TOXAPH3DA
Y (x10^4)
AIA Scientific Software, Inc. 009e0E27016-ARC1.cdf: 14.721 to 20.829 Min
Min
14.963
15.018
15.157
15.207
15.307
15.448
15.528
15.695
15.818
15.942
16.000
16.070
16.265
16.385
16.468
16.633
16.778
16.845
16.990
17.053
17.130
Toxaphene
Toxaphene
17.443
17.548
17.655
Toxaphene
17.797
17.903
Toxaphene
18.055
18.130
18.210
18.288
18.368
18.430
18.513
18.562
Toxaphene
18.830
18.880
18.928
19.087
19.222
19.350
19.445
19.502
19.655
19.712
19.832
19.957
20.020
20.110
20.225
20.277
20.345
20.440
20.527
20.612
20.758

Data File: /chem/tracegc82.i/e100528.b/010e0E27016-ARC2.d

Page 1

Date : 28-MAY-2010 22:08

Client ID: CHLORO3DA

Instrument: tracegc82.i

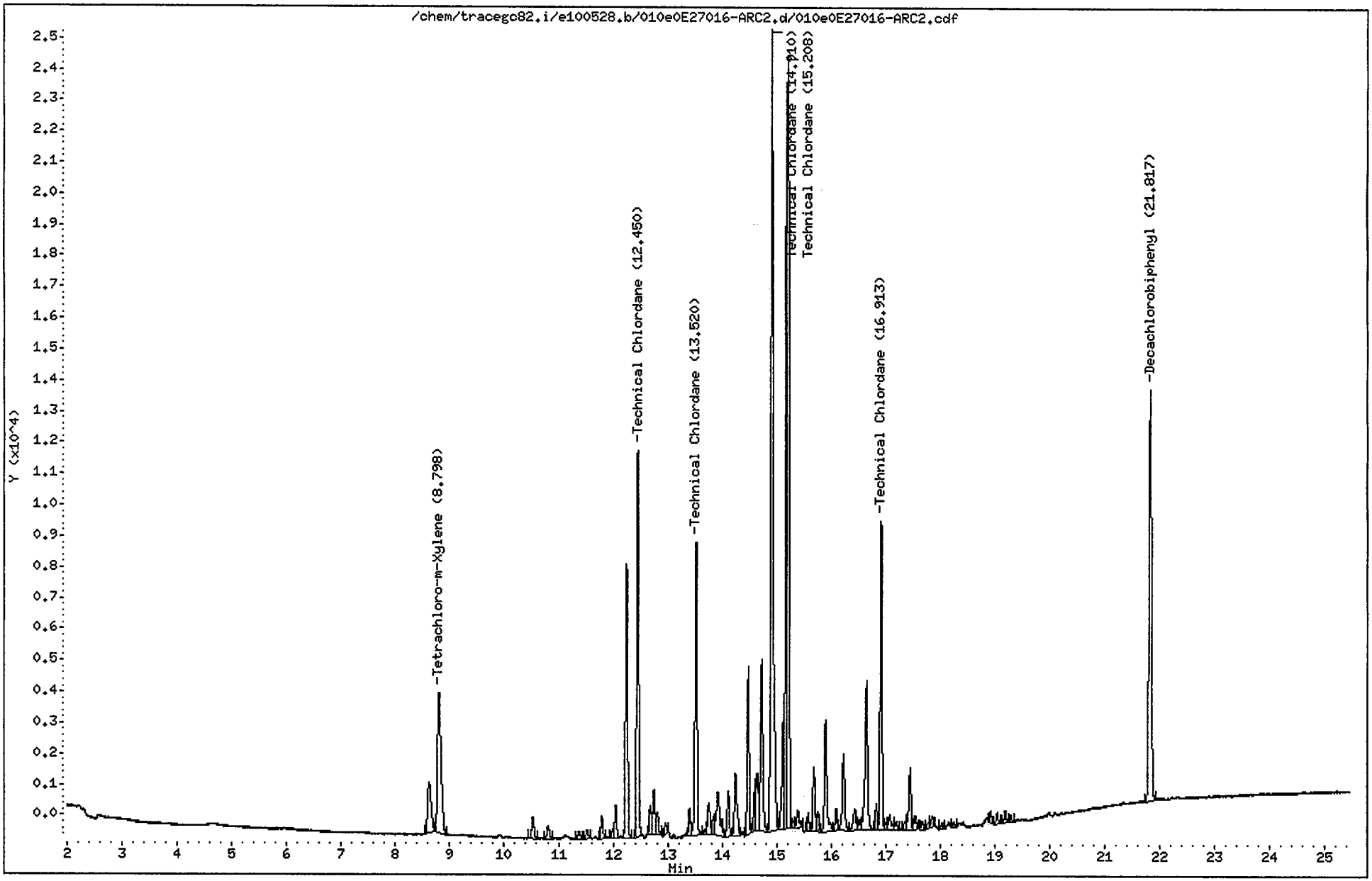
Sample Info: 0E27016-ARC2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-ARC2 Client Smp Id : CHLORO3DA
Sample Type : INITIAL CAL: Level 2 Sublist : TechChlor
Inj Date : 28-MAY-2010 22:08 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : CHLORO3DA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.46		19353					
8.62		7624					
8.80	8.73 8.87	20653	1040566	Tetrachloro-m-Xylene	0.010000	1068400	
10.53		2134					
10.81		1254					
11.37		740					
11.52		922					
11.79		1868					
11.98		637					
12.04		2819					
12.24		23009					
12.45	12.38 12.52	31495	118106	TechnicalChlordane Peak 1	0.200000	157475	
12.68		2382					
12.75		4084					
12.81		1854					
12.96		866					
13.40		2118					
13.52	13.45 13.59	26250	98436	TechnicalChlordane Peak 2	0.200000	131245	
13.69		451					
13.75		3051					
13.84		1504					
13.92		6634					
14.11		3884					
14.24		6542					
14.47		12738					
14.61		3686					
14.64		5769					
14.72		16380					
14.91	14.84 14.98	73737	276514	TechnicalChlordane Peak 3	0.200000	368685	
15.13		8786					
15.19		48912					
15.21	15.14 15.28	57199	214496	TechnicalChlordane Peak 4	0.200000	285995	
15.30		519					
15.39		1903					
15.57		1152					
15.68		5329					
15.76		1597					
15.90		11028					
16.09		1804					
16.23		7596					
16.44		2623					
16.52		905					

CompuChem

Lab Smp Id : 0E27016-ARC2 Client Smp Id : CHLORO3DA
Sample Type : INITIAL CAL: Level 2 Sublist : TechChlor
Inj Date : 28-MAY-2010 22:08 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : CHLORO3DA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.65		15407					
16.83		1975					
16.91	16.84 16.98	24425	91595	TechnicalChlordane Peak 5	0.200000	122125	
17.01		571					
17.07		1694					
17.20		616					
17.37		756					
17.45		5546					
17.54		1240					
17.67		743					
17.78		533					
17.85		935					
18.04		446					
18.25		357					
18.92		920					
19.04		931					
19.18		953					
19.30		536					
21.82	21.74 21.88	41141	1016677	Decachlorobiphenyl	0.020000	1109550	

Data File: /chem/tracegc82.i/e100528.b/011e0E27016-SCV1.d

Date : 28-MAY-2010 22:37

Client ID: PESTCHKDA

Instrument: tracegc82.i

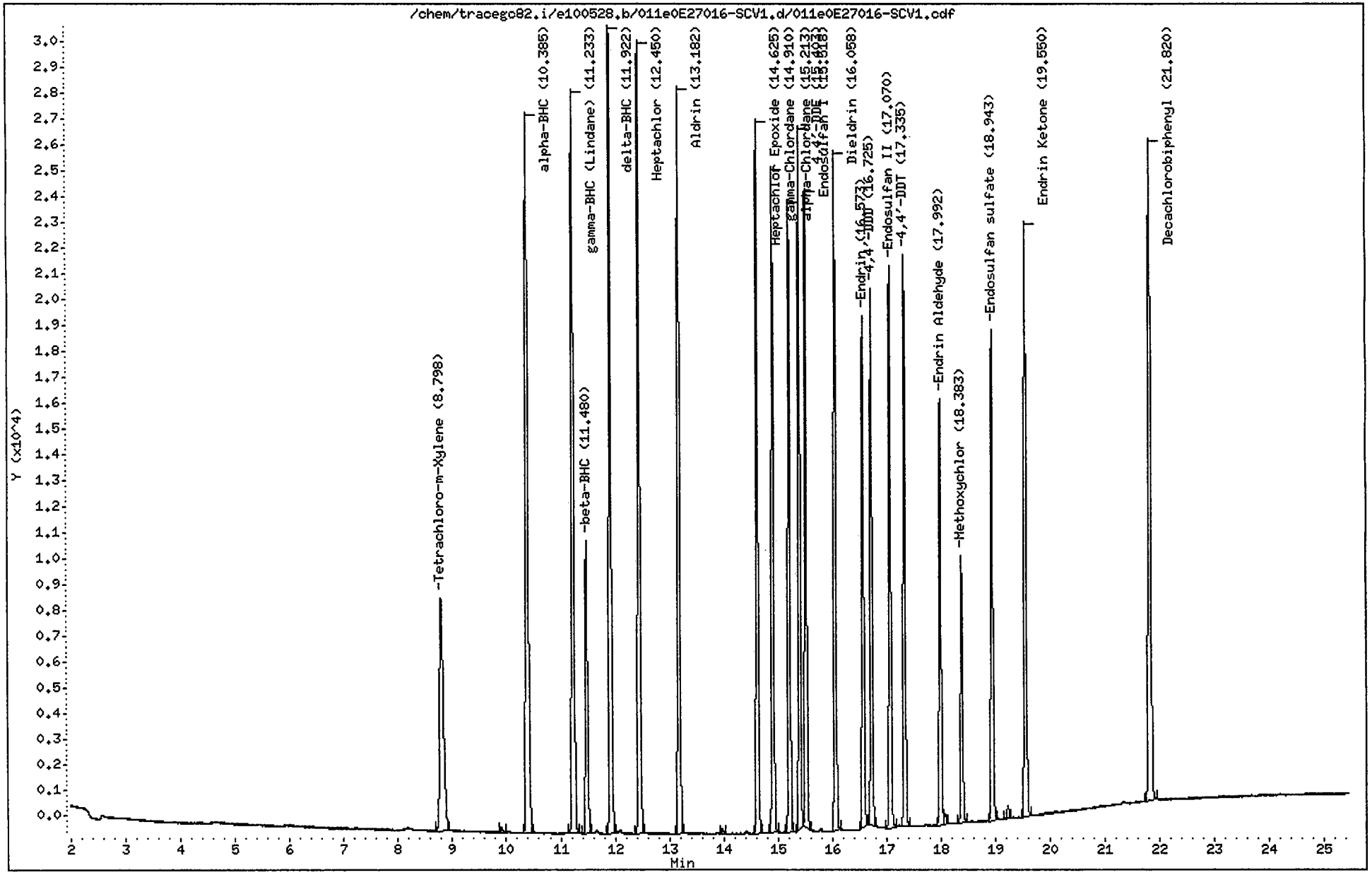
Sample Info: 0E27016-SCV1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

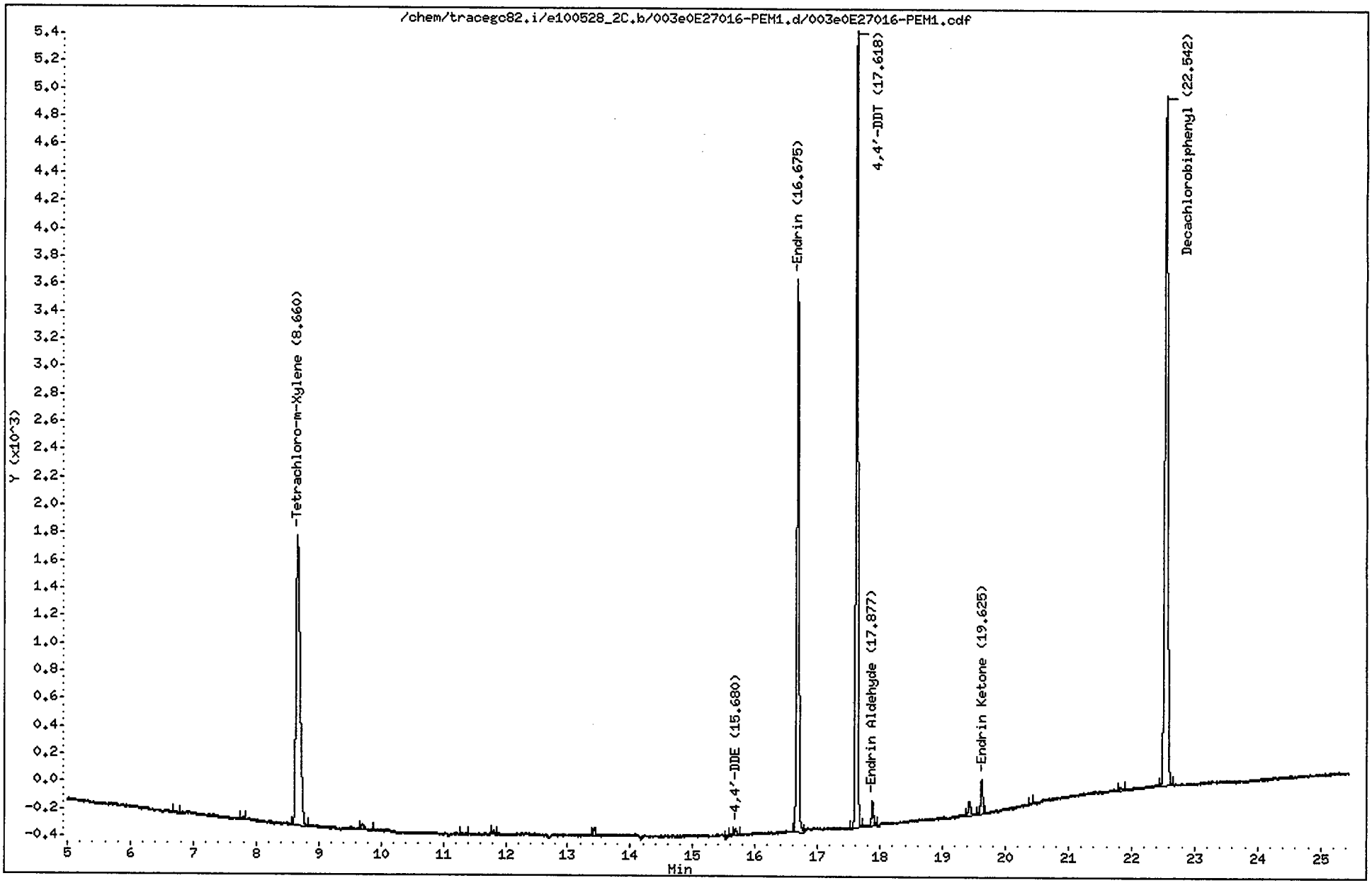
Lab Smp Id : 0E27016-SCV1 Client Smp Id : PESTCHKDA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 28-MAY-2010 22:37 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : INDAchek
Method : /chem/tracegc82.i/e100528.b/8081A_clpestv6.m
Misc. Info : PESTCHKDA

RT	AREA
1.36	383
1.47	1865
8.80	44064
9.90	529
10.38	90986
11.23	82577
11.48	30960
11.92	82341
12.45	80396
13.18	73186
13.97	477
14.63	65761
14.91	61308
15.21	58722
15.40	62237
15.52	59725
16.06	63365
16.57	48768
16.73	47933
17.07	53664
17.34	50987
17.99	41147
18.08	987
18.38	24980
18.94	48127
19.22	1230
19.55	58899
21.82	79915

6/1/10

Data File: /chem/tracegc82.i/e100528_2C.b/003e0E27016-PEM1.d
Date : 28-MAY-2010 18:44
Client ID: PEMDA
Sample Info: 0E27016-PEM1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc82.i
Operator: System
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-PEM1 Client Smp Id : PEMDA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 28-MAY-2010 18:44 Inst ID : TRACEGC82
Operator : System
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : PEMDA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

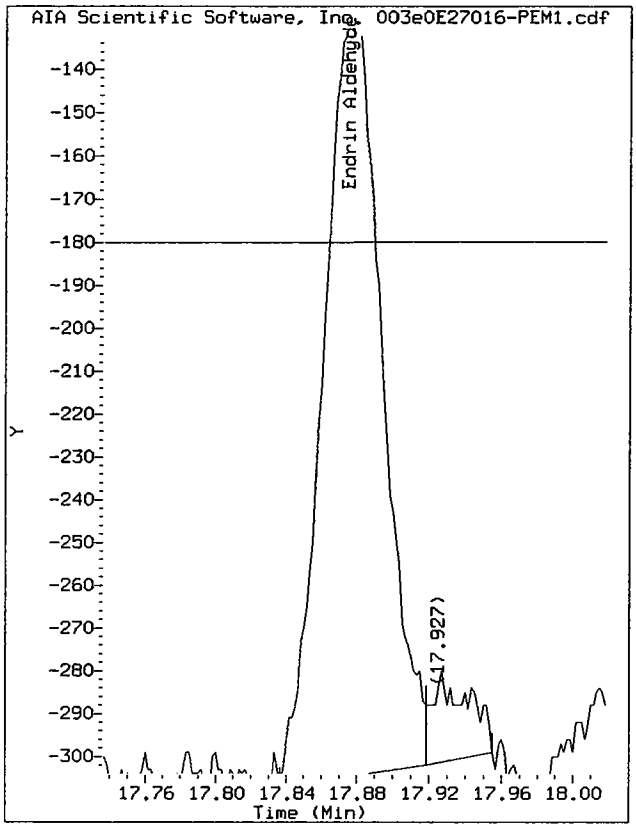
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.07			110								
1.05			84								
1.21			97								
1.35			1125								
1.50			59486								
2.52			431								
2.88			44								
6.70			42								
7.78			47								
8.66	8.59	8.73	9459	503160	Tetrachloro-m-Xylene	0.018800	0.018800		94.9	43 - 135	
9.71			172								
11.30			54								
11.81			96								
13.42			112								
15.56			51								
15.68	15.61	15.75	128	562749	4,4'-DDE	0.000228	0.000228	0.020000			J
16.68	16.61	16.75	9554	447924	Endrin	0.021329	0.021329	0.020000			
17.62	17.55	17.69	13208	466515	4,4'-DDT	0.028313	0.028313	0.020000			
17.88	17.81	17.95	411	389549	Endrin Aldehyde	0.001056	0.001056	0.020000			JM 2
17.93			30								
19.43			300								
19.62	19.55	19.69	629	493585	Endrin Ketone	0.001274	0.001274	0.020000			J
20.41			43								
21.82			94								
22.54	22.47	22.61	16121	430874	Decachlorobiphenyl	0.037414	0.037414		94.5	43 - 144	

pm 6/1/10

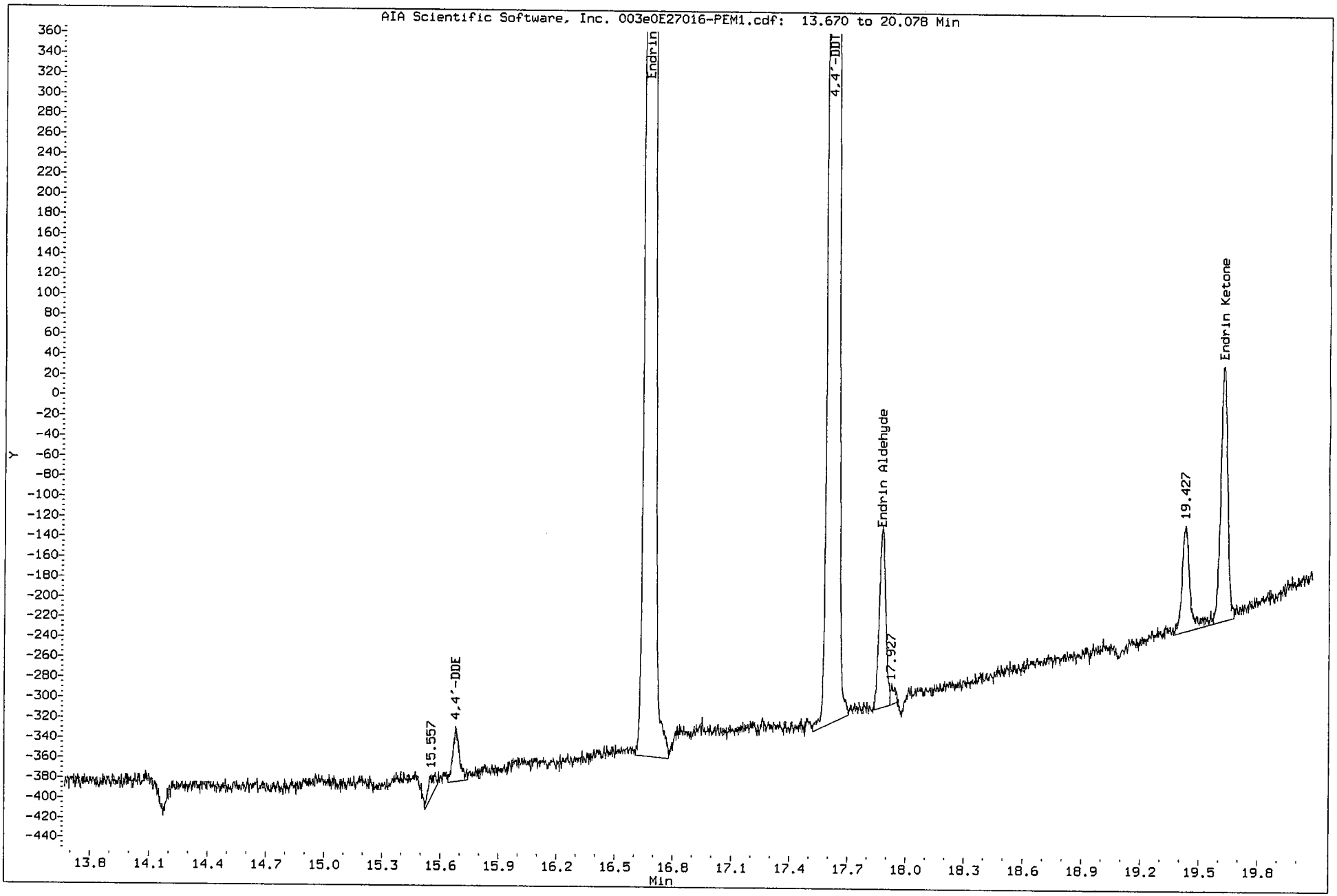
6/1/10

Manually Integrated Peaks



Start: 17.84 Stop: 17.92

Data File: /chem/tracegc82.i/e100528_2C.b/003e0E27016-PEM1.d/003e0E27016-PEM1.cdf
Injection Date: 28-MAY-2010 18:44
Instrument: tracegc82.i
Client Sample ID: PEMDA



Data File: /chem/tracegc82.i/e100528_2C.b/004e0E27016-CAL1.d

Date : 28-MAY-2010 19:14

Client ID: INDC1DA

Sample Info: 0E27016-CAL1

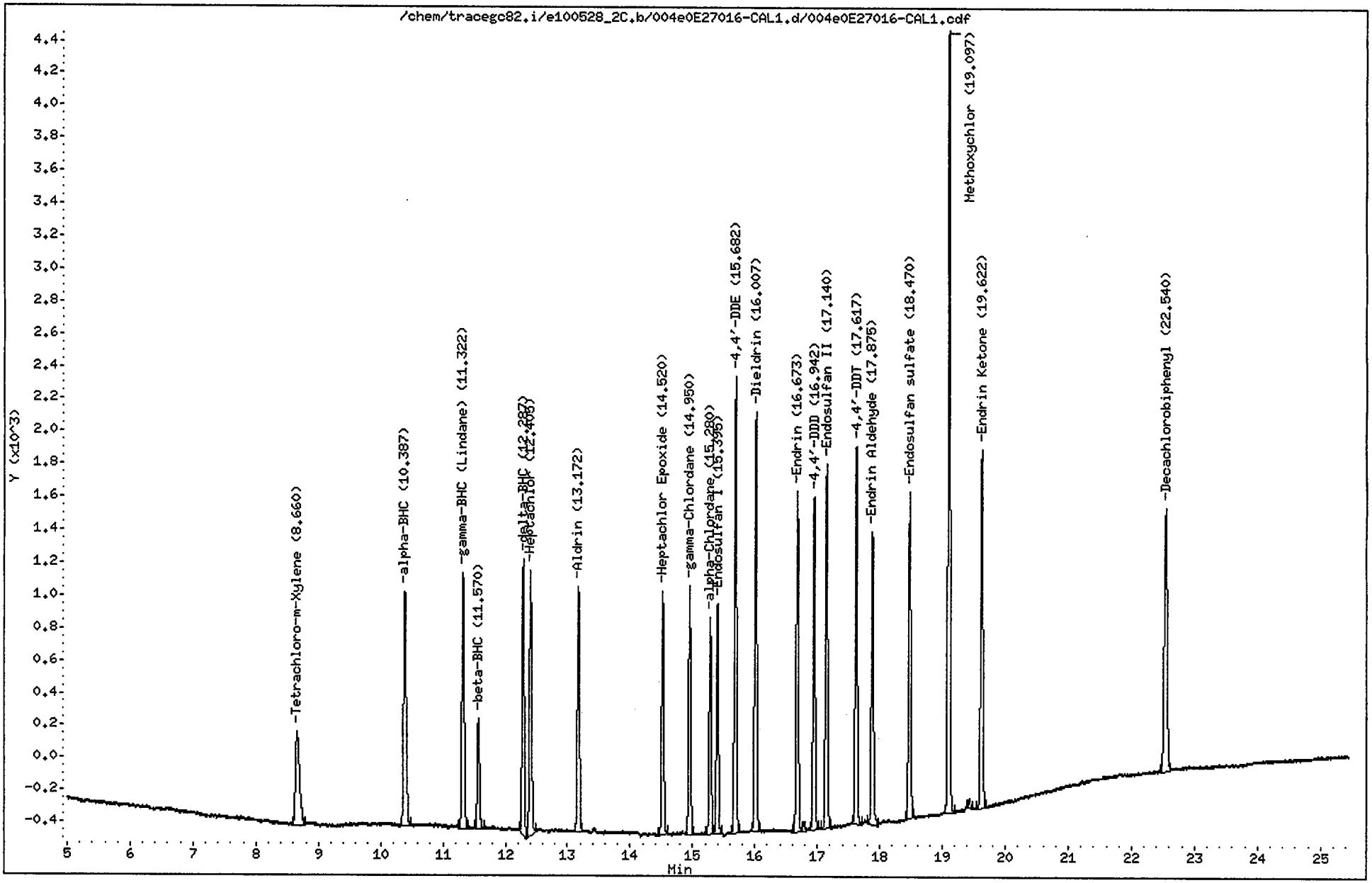
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-CAL1 Client Smp Id : INDC1DA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 28-MAY-2010 19:14 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC1DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.06			204					
1.35			206					
1.51			198402					
2.53			225					
8.66	8.59	8.73	2653	503160	Tetrachloro-m-Xylene	0.005000	530600	
10.39	10.32	10.46	4261	830132	alpha-BHC	0.005000	852000	
11.32	11.25	11.39	4079	788408	gamma-BHC (Lindane)	0.005000	815600	
11.57	11.50	11.64	1711	317558	beta-BHC	0.005000	342200	
12.29	12.22	12.36	3931	751010	delta-BHC	0.005000	786200	
12.40	12.34	12.48	4101	707456	Heptachlor	0.005500	745455	
13.17	13.10	13.24	3608	662068	Aldrin	0.005000	721400	
14.52	14.45	14.59	3447	626245	Heptachlor Epoxide	0.005000	689200	
14.95	14.88	15.02	3457	627128	gamma-Chlordane	0.005000	691400	
15.28	15.21	15.35	3031	543742	alpha-Chlordane	0.005000	606000	
15.40	15.33	15.47	3280	584790	Endosulfan I	0.005000	655800	
15.68	15.62	15.76	6169	562749	4,4'-DDE	0.010000	616900	
16.01	15.94	16.08	5964	543158	Dieldrin	0.010000	596300	
16.67	16.61	16.75	4938	447924	Endrin	0.010000	493800	
16.79			159					
16.94	16.88	17.02	4505	414075	4,4'-DDD	0.010000	450500	
17.14	17.07	17.21	5209	473162	Endosulfan II	0.010000	520900	
17.62	17.55	17.69	5167	466515	4,4'-DDT	0.010000	516700	
17.88	17.81	17.95	4388	389549	Endrin Aldehyde	0.010000	438700	
18.47	18.40	18.54	4720	424500	Endosulfan sulfate	0.010000	471900	
19.10	19.03	19.17	10849	190365	Methoxychlor	0.050000	216960	
19.43			141					
19.62	19.56	19.70	5460	493585	Endrin Ketone	0.010000	545900	
22.54	22.47	22.61	5053	430874	Decachlorobiphenyl	0.010000	505200	

Data File: /chem/tracegc82.i/e100528_2C.b/005e0E27016-CAL2.d

Date : 28-MAY-2010 19:43

Client ID: INDC2DA

Sample Info: 0E27016-CAL2

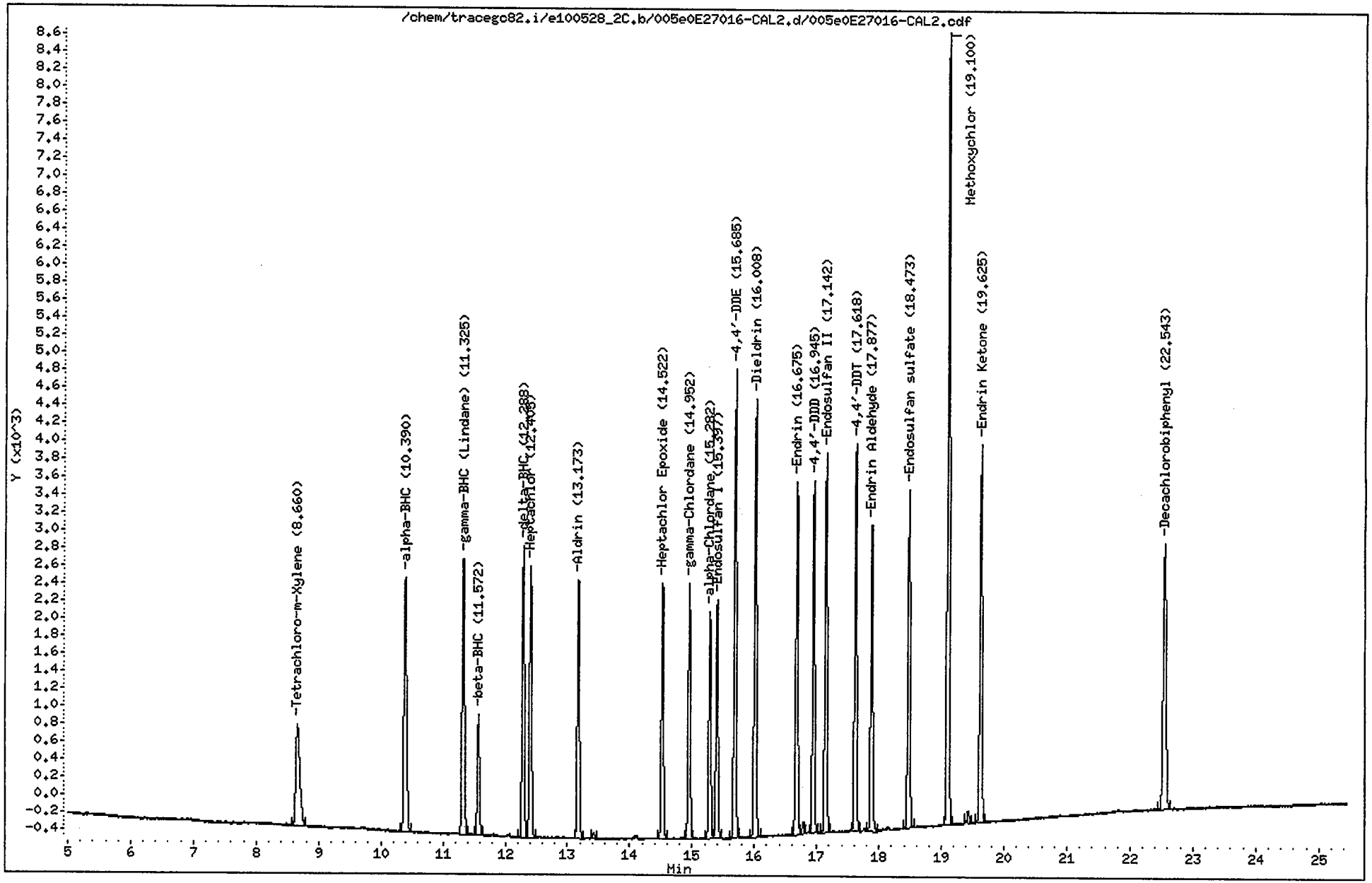
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-CAL2 Client Smp Id : INDC2DA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 28-MAY-2010 19:43 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC2DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.05			151					
1.35			241					
1.50			3378					
2.53			147					
8.66	8.59	8.73	5287	503160	Tetrachloro-m-Xylene	0.010000	528600	
10.39	10.32	10.46	8586	830132	alpha-BHC	0.010000	858600	
11.32	11.25	11.39	8162	788408	gamma-BHC (Lindane)	0.010000	816100	
11.57	11.50	11.64	3314	317558	beta-BHC	0.010000	331300	
12.29	12.22	12.36	7671	751010	delta-BHC	0.010000	767000	
12.40	12.34	12.48	7642	707456	Heptachlor	0.010000	764100	
13.17	13.10	13.24	7088	662068	Aldrin	0.010000	708800	
13.43			148					
14.52	14.45	14.59	6727	626245	Heptachlor Epoxide	0.010000	672700	
14.95	14.88	15.02	6750	627128	gamma-Chlordane	0.010000	674900	
15.28	15.21	15.35	5881	543742	alpha-Chlordane	0.010000	588000	
15.40	15.33	15.47	6323	584790	Endosulfan I	0.010000	632300	
15.68	15.62	15.76	11918	562749	4,4'-DDE	0.020000	595850	
16.01	15.94	16.08	11582	543158	Dieldrin	0.020000	579050	
16.68	16.61	16.75	9563	447924	Endrin	0.020000	478150	
16.78			295					
16.94	16.88	17.02	8805	414075	4,4'-DDD	0.020000	440200	
17.14	17.07	17.21	10098	473162	Endosulfan II	0.020000	504900	
17.62	17.55	17.69	9938	466515	4,4'-DDT	0.020000	496900	
17.88	17.81	17.95	8417	389549	Endrin Aldehyde	0.020000	420800	
18.47	18.40	18.54	9224	424500	Endosulfan sulfate	0.020000	461200	
19.10	19.03	19.17	20678	190365	Methoxychlor	0.100000	206770	
19.43			309					
19.62	19.56	19.70	10644	493585	Endrin Ketone	0.020000	532200	
22.54	22.47	22.61	9631	430874	Decachlorobiphenyl	0.020000	481500	

Data File: /chem/tracegc82.i/e100528_2C.b/006e0E27016-CAL3.d

Date : 28-MAY-2010 20:12

Client ID: INDC3DA

Sample Info: 0E27016-CAL3

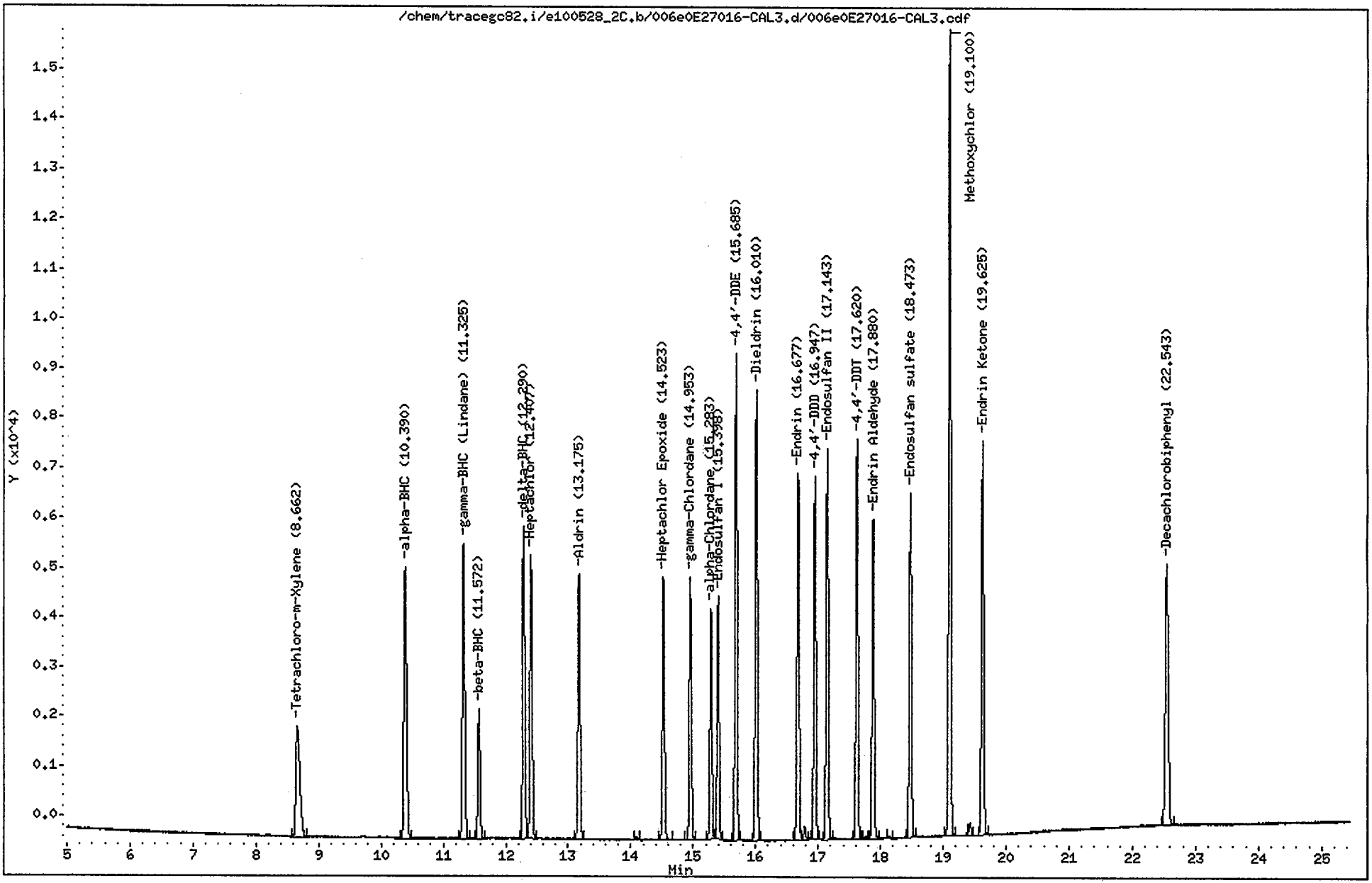
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: System

Column diameter: 0.32



CompuChem

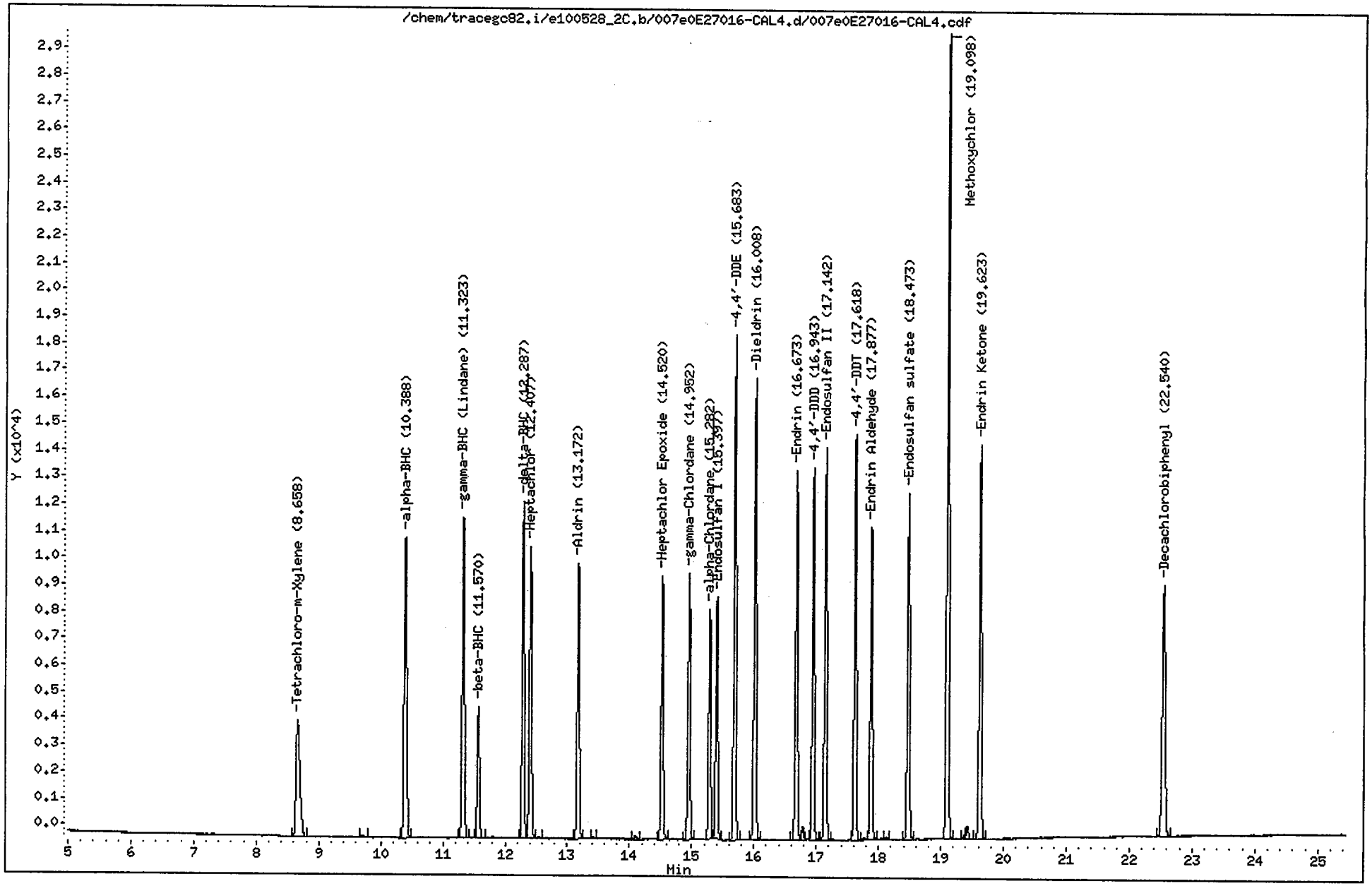
Lab Smp Id : 0E27016-CAL3 Client Smp Id : INDC3DA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 28-MAY-2010 20:12 Inst ID : TRACEGC82
Operator : System
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.35			326					
1.50			69970					
2.54			264					
8.66	8.59	8.73	10006	503160	Tetrachloro-m-Xylene	0.020000	500300	
10.39	10.32	10.46	16239	830132	alpha-BHC	0.020000	811900	
11.32	11.25	11.39	15415	788408	gamma-BHC (Lindane)	0.020000	770700	
11.57	11.50	11.64	6263	317558	beta-BHC	0.020000	313100	
12.29	12.22	12.36	14603	751010	delta-BHC	0.020000	730150	
12.41	12.34	12.48	14025	707456	Heptachlor	0.020000	701250	
13.18	13.10	13.24	13013	662068	Aldrin	0.020000	650600	
14.09			154					
14.52	14.45	14.59	12401	626245	Heptachlor Epoxide	0.020000	620000	
14.95	14.88	15.02	12330	627128	gamma-Chlordane	0.020000	616500	
15.28	15.21	15.35	10693	543742	alpha-Chlordane	0.020000	534600	
15.40	15.33	15.47	11502	584790	Endosulfan I	0.020000	575050	
15.68	15.62	15.76	21881	562749	4,4'-DDE	0.040000	547000	
16.01	15.94	16.08	21201	543158	Dieldrin	0.040000	530000	
16.68	16.61	16.75	17669	447924	Endrin	0.040000	441700	
16.78			591					
16.95	16.88	17.02	16218	414075	4,4'-DDD	0.040000	405450	
17.14	17.07	17.21	18683	473162	Endosulfan II	0.040000	467050	
17.62	17.55	17.69	18199	466515	4,4'-DDT	0.040000	454950	
17.76			127					
17.88	17.81	17.95	15627	389549	Endrin Aldehyde	0.040000	390675	
18.14			122					
18.47	18.40	18.54	16744	424500	Endosulfan sulfate	0.040000	418575	
19.10	19.03	19.17	37239	190365	Methoxychlor	0.200000	186195	
19.43			605					
19.62	19.56	19.70	19454	493585	Endrin Ketone	0.040000	486350	
22.54	22.47	22.61	17125	430874	Decachlorobiphenyl	0.040000	428125	

6/1/10

Data File: /chem/tracegc82.i/e100528_2C.b/007e0E27016-CAL4.d
Date : 28-MAY-2010 20:41
Client ID: INDC4DA
Sample Info: 0E27016-CAL4
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc82.i
Operator: BWL
Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-CAL4 Client Smp Id : INDC4DA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 28-MAY-2010 20:41 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC4DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.35			285					
1.49			4054					
2.55			337					
8.66	8.59	8.73	19207	503160	Tetrachloro-m-Xylene	0.040000	480150	
9.71			262					
10.39	10.32	10.46	31938	830132	alpha-BHC	0.040000	798425	
11.32	11.25	11.39	30260	788408	gamma-BHC (Lindane)	0.040000	756500	
11.57	11.50	11.64	12064	317558	beta-BHC	0.040000	301600	
12.29	12.22	12.36	28739	751010	delta-BHC	0.040000	718475	
12.41	12.34	12.48	26554	707456	Heptachlor	0.040000	663850	
12.54			171					
13.17	13.10	13.24	24547	662068	Aldrin	0.040000	613675	
13.43			138					
14.09			375					
14.52	14.45	14.59	23123	626245	Heptachlor Epoxide	0.040000	578050	
14.95	14.88	15.02	23139	627128	gamma-Chlordane	0.040000	578475	
15.28	15.21	15.35	19964	543742	alpha-Chlordane	0.040000	499100	
15.40	15.33	15.47	21441	584790	Endosulfan I	0.040000	536025	
15.68	15.62	15.76	41692	562749	4,4'-DDE	0.080000	521137	
16.01	15.94	16.08	40121	543158	Dieldrin	0.080000	501500	
16.67	16.61	16.75	32880	447924	Endrin	0.080000	410987	
16.78			1126					
16.94	16.88	17.02	30771	414075	4,4'-DDD	0.080000	384625	
17.14	17.07	17.21	34936	473162	Endosulfan II	0.080000	436700	
17.62	17.55	17.69	34447	466515	4,4'-DDT	0.080000	430575	
17.76			203					
17.88	17.81	17.95	28159	389549	Endrin Aldehyde	0.080000	351987	
18.14			166					
18.47	18.40	18.54	31011	424500	Endosulfan sulfate	0.080000	387625	
19.10	19.03	19.17	68505	190365	Methoxychlor	0.400000	171260	
19.38			246					
19.43			1110					
19.62	19.56	19.70	36339	493585	Endrin Ketone	0.080000	454237	
22.54	22.47	22.61	30339	430874	Decachlorobiphenyl	0.080000	379237	

Data File: /chem/tracegc82.i/e100528_2C.b/008e0E27016-CAL5.d

Date : 28-MAY-2010 21:10

Client ID: INDC5DA

Sample Info: 0E27016-CAL5

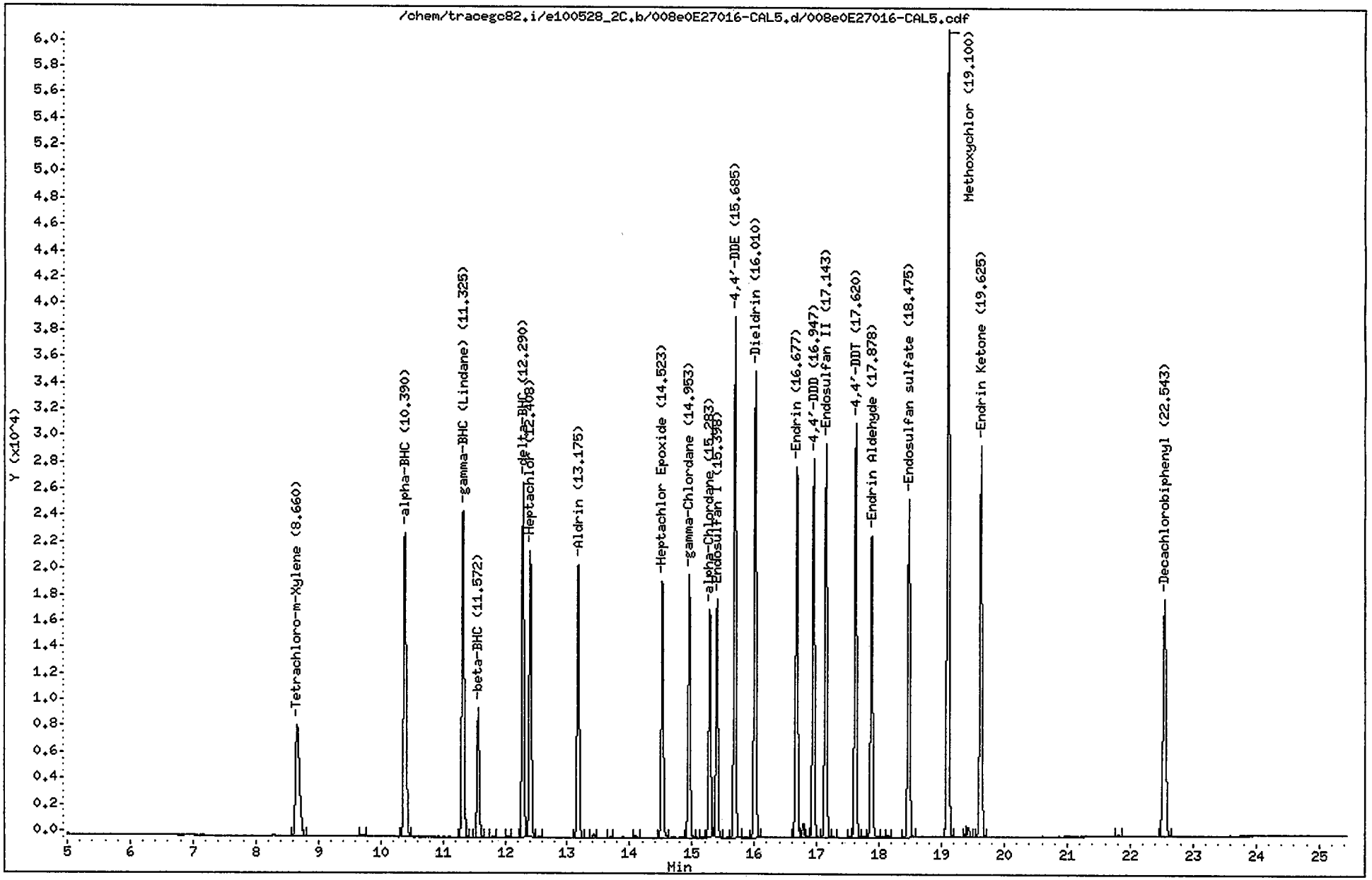
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-CAL5 Client Smp Id : INDC5DA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 28-MAY-2010 21:10 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : INDC5DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.35			360					
1.51			64412					
8.66	8.59	8.73	38092	503160	Tetrachloro-m-Xylene	0.080000	476137	
9.71			509					
10.39	10.32	10.46	66379	830132	alpha-BHC	0.080000	829737	
11.32	11.25	11.39	62652	788408	gamma-BHC (Lindane)	0.080000	783137	
11.57	11.50	11.64	23968	317558	beta-BHC	0.080000	299587	
11.80			254					
12.06			187					
12.29	12.22	12.36	60259	751010	delta-BHC	0.080000	753225	
12.41	12.34	12.48	53010	707456	Heptachlor	0.080000	662625	
12.54			294					
13.18	13.10	13.24	49269	662068	Aldrin	0.080000	615863	
13.42			540					
13.70			163					
14.10			483					
14.52	14.45	14.59	45702	626245	Heptachlor Epoxide	0.080000	571275	
14.95	14.88	15.02	45950	627128	gamma-Chlordane	0.080000	574363	
15.16			127					
15.28	15.21	15.35	39282	543742	alpha-Chlordane	0.080000	491013	
15.40	15.33	15.47	41983	584790	Endosulfan I	0.080000	524775	
15.68	15.62	15.76	85257	562749	4,4'-DDE	0.160000	532856	
16.01	15.94	16.08	81430	543158	Dieldrin	0.160000	508937	
16.68	16.61	16.75	66398	447924	Endrin	0.160000	414981	
16.78			2354					
16.86			196					
16.95	16.88	17.02	62336	414075	4,4'-DDD	0.160000	389600	
17.14	17.07	17.21	69803	473162	Endosulfan II	0.160000	436263	
17.27			208					
17.54			179					
17.62	17.55	17.69	69353	466515	4,4'-DDT	0.160000	433450	
17.77			254					
17.88	17.81	17.95	55294	389549	Endrin Aldehyde	0.160000	345581	
18.07			219					
18.14			389					
18.48	18.40	18.54	61312	424500	Endosulfan sulfate	0.160000	383200	
19.10	19.03	19.17	136511	190365	Methoxychlor	0.800000	170639	
19.38			450					
19.43			1926					
19.62	19.56	19.70	71879	493585	Endrin Ketone	0.160000	449237	
21.82			237					
22.54	22.47	22.61	57650	430874	Decachlorobiphenyl	0.160000	360306	

6/11

Data File: /chem/tracegc82.i/e100528_2C.b/009e0E27016-ARC1.d

Date : 28-MAY-2010 21:39

Client ID: TOXAPH3DA

Sample Info: 0E27016-ARC1

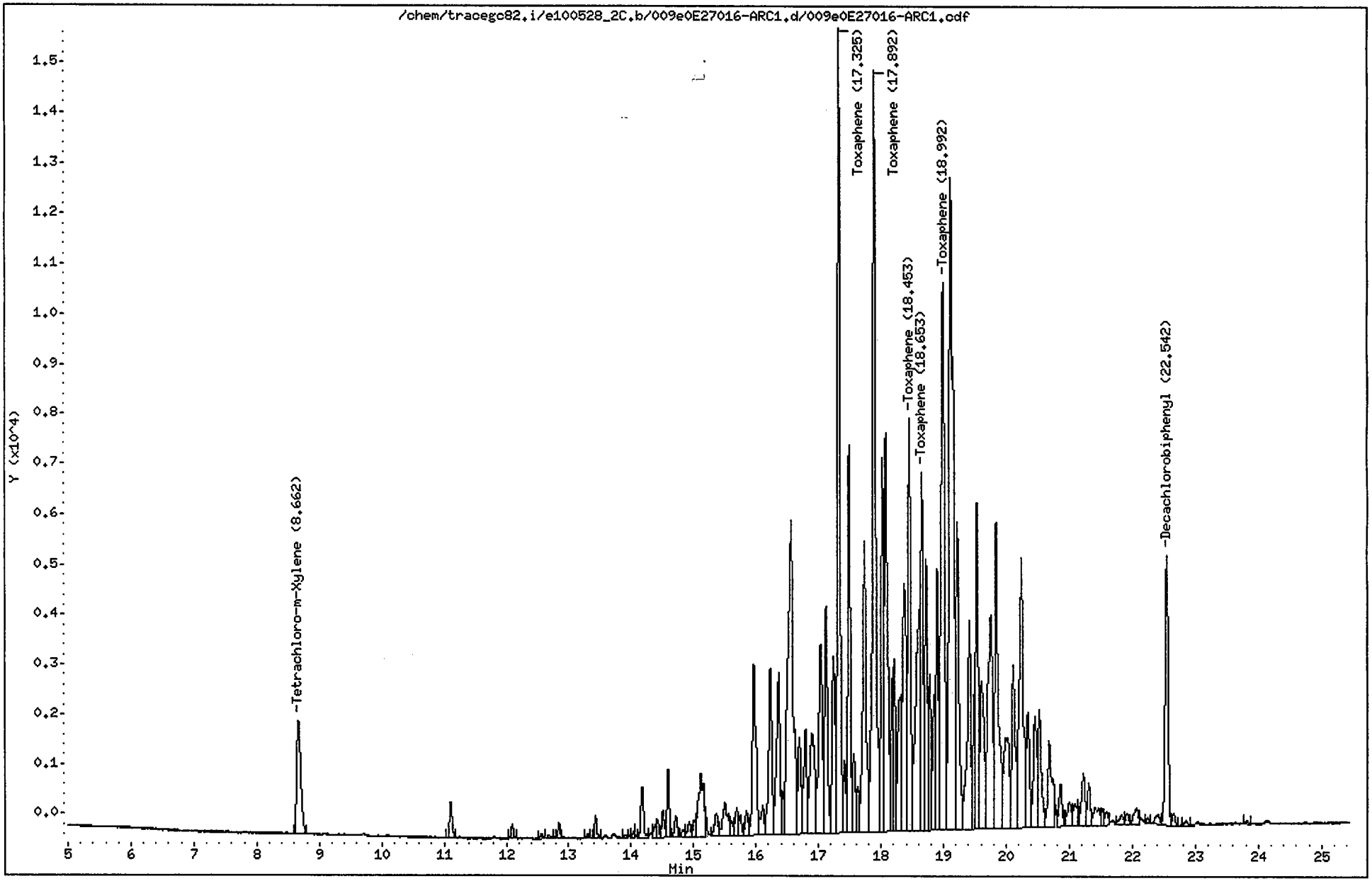
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-ARC1 Client Smp Id : TOXAPH3DA
Sample Type : INITIAL CAL: Level 1 Sublist : TOXAPH
Inj Date : 28-MAY-2010 21:39 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3DA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.35			290					
1.51			37743					
2.53			128					
8.66	8.59	8.73	10416	503160	Tetrachloro-m-Xylene	0.005000	530600	
11.11			2044					
12.10			680					
12.56			254					
12.68			208					
12.84			661					
13.30			204					
13.43			1146					
13.91			170					
14.04			269					
14.17			3285					
14.39			782					
14.43			812					
14.51			1483					
14.59			3341					
14.72			1384					
14.83			560					
14.93			973					
15.01			1013					
15.12			7237					
15.37			1808					
15.50			3770					
15.61			874					
15.69			1828					
15.75			1138					
15.84			1675					
15.96			13399					
16.11			2251					
16.22			12081					
16.36			12115					
16.42			2060					
16.56			38016					
16.69			6491					
16.79			7633					
16.89			11524					
17.03			15603					
17.12			14622					
17.23			12074					
17.32	17.25	17.39	44930	55723	Toxaphene Peak 1	0.500000	89858	

2A 6/1/10 pm 6/1/10

CompuChem

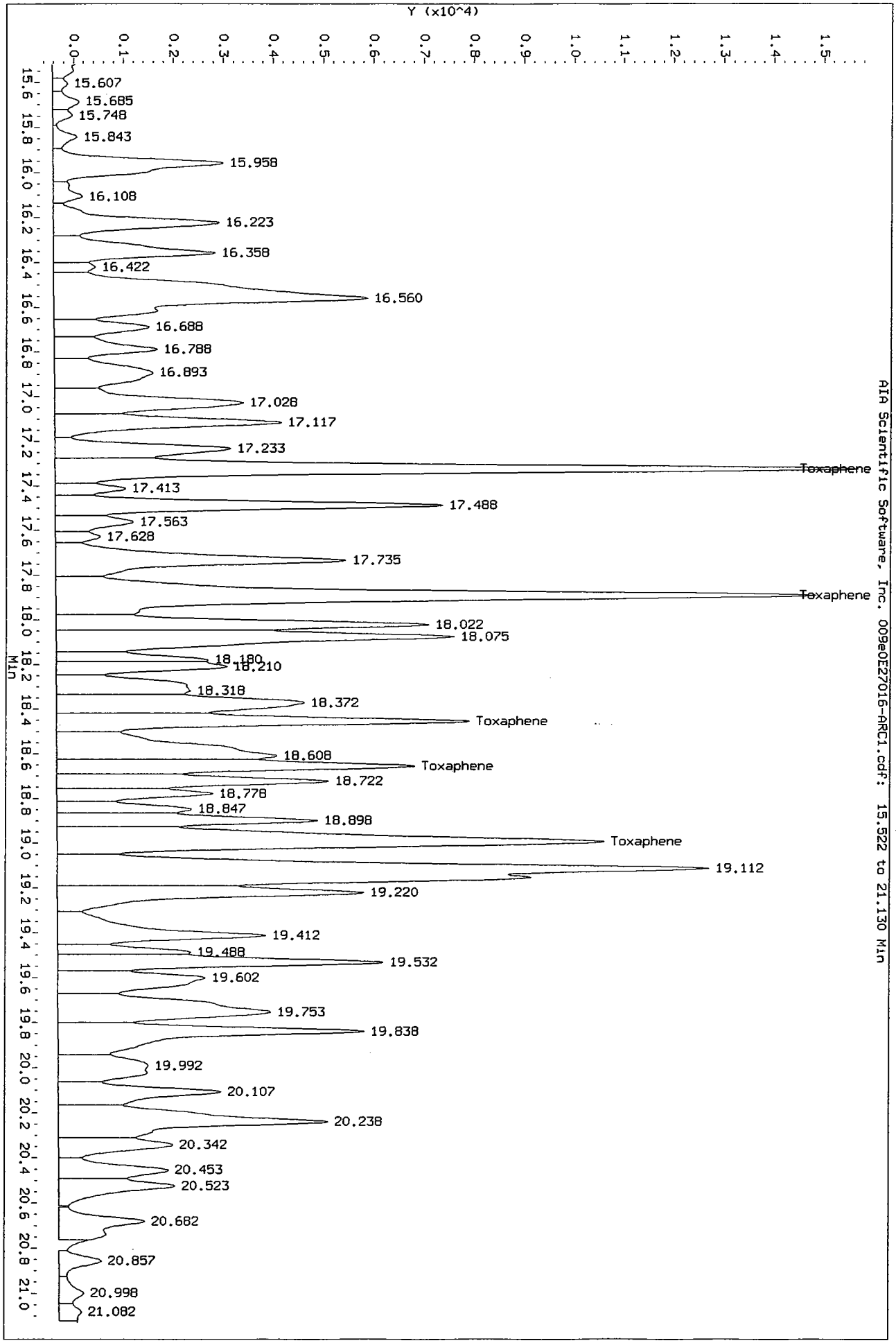
Lab Smp Id : 0E27016-ARC1 Client Smp Id : TOXAPH3DA
Sample Type : INITIAL CAL: Level 1 Sublist : TOXAPH
Inj Date : 28-MAY-2010 21:39 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3DA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
17.41		3619					
17.49		20965					
17.56		5119					
17.63		2337					
17.73		22191					
17.89	17.82 17.96	54407	67201	Toxaphene Peak 2	0.500000	108812	
18.02		20257					
18.07		27648					
18.18		6244					
18.21		9553					
18.32		11809					
18.37		20233					
18.45	18.38 18.52	23761	29181	Toxaphene Peak 3	0.500000	47520	
18.61		21595					
18.65	18.58 18.72	20764	25486	Toxaphene Peak 4	0.500000	41528	
18.72		15330					
18.78		8164					
18.85		7002					
18.90		14128					
18.99	18.92 19.06	43986	54161	Toxaphene Peak 5	0.500000	87970	
19.11		63244					
19.22		20480					
19.41		16102					
19.49		5431					
19.53		18516					
19.60		13505					
19.75		22376					
19.84		23301					
19.99		11073					
20.11		12325					
20.24		24642					
20.34		8214					
20.45		7842					
20.52		8751					
20.68		7940					
20.86		2924					
21.00		2246					
21.08		1741					
21.22		4064					
21.31		2573					
21.41		2272					
21.53		861					

CompuChem

Lab Smp Id : 0E27016-ARC1 Client Smp Id : TOXAPH3DA
Sample Type : INITIAL CAL: Level 1 Sublist : TOXAPH
Inj Date : 28-MAY-2010 21:39 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3DA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
21.59		954					
21.82		979					
21.92		689					
22.07		1611					
22.24		283					
22.38		885					
22.54	22.47 22.61	17638	430874	Decachlorobiphenyl	0.010000	505200	
22.66		746					
22.85		342					
23.81		186					


Data File: /chem/tracegc82.i/e100528_2C.b/009e0E27016-ARC1.d/009e0E27016-ARC1.cdf
Injection Date: 28-MAY-2010 21:39
Instrument: tracegc82.i
Client Sample ID: TOXAPH3DA
Y (x10^4)
0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5
15.607
15.685
15.748
15.843
15.958
16.108
16.223
16.358
16.422
16.560
16.688
16.788
16.893
17.028
17.117
17.233
Toxaphene
17.413
17.488
17.563
17.628
17.735
Toxaphene
18.022
18.075
18.180
18.210
18.318
18.372
Toxaphene
18.608
Toxaphene
18.722
18.778
18.847
18.898
Toxaphene
19.112
19.220
19.412
19.488
19.532
19.602
19.753
19.838
19.992
20.107
20.238
20.342
20.453
20.523
20.682
20.857
20.998
21.082
15.6 15.8 16.0 16.2 16.4 16.6 16.8 17.0 17.2 17.4 17.6 17.8 18.0 18.2 18.4 18.6 18.8 19.0 19.2 19.4 19.6 19.8 20.0 20.2 20.4 20.6 20.8 21.0
Min
AIA Scientific Software, Inc. 009e0E27016-ARC1.cdf: 15.522 to 21.130 Min

Data File: /chem/tracegc82.i/e100528_2C.b/010e0E27016-ARC2.d

Date : 28-MAY-2010 22:08

Client ID: CHLOR03DA

Sample Info: 0E27016-ARC2

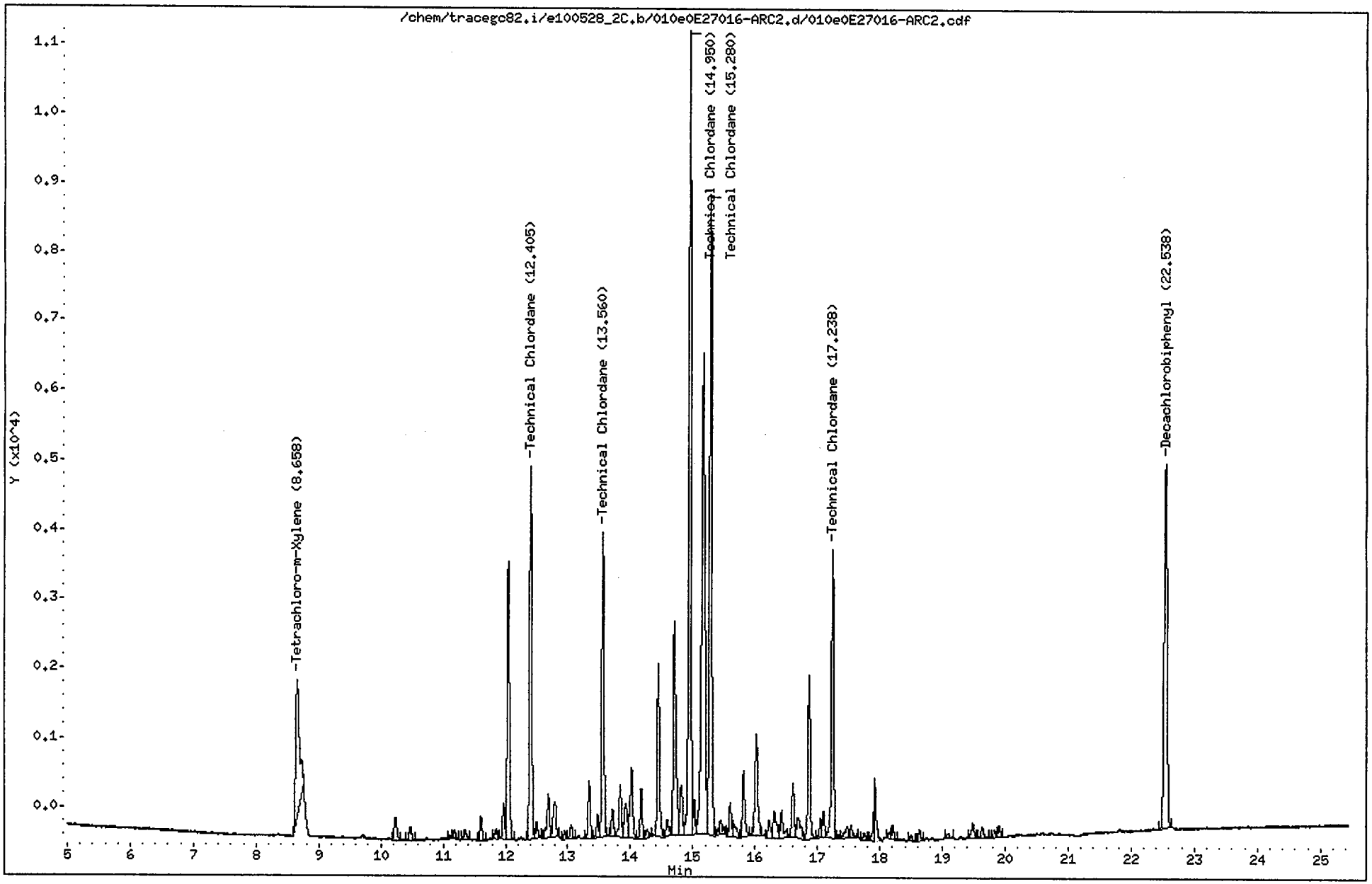
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-ARC2 Client Smp Id : CHLORO3DA
Sample Type : INITIAL CAL: Level 2 Sublist : TechChlor
Inj Date : 28-MAY-2010 22:08 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3DA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.34		412					
1.49		51654					
8.66	8.59 8.73	8300	503160	Tetrachloro-m-Xylene	0.010000	528600	
10.23		985					
10.47		605					
11.11		130					
11.18		312					
11.35		430					
11.61		855					
11.85		375					
11.97		1230					
12.05		10027					
12.40	12.33 12.47	13351	50066	TechnicalChlordane Peak 1	0.200000	66755	
12.50		558					
12.69		1884					
12.80		1799					
12.95		277					
13.05		558					
13.34		2065					
13.47		779					
13.56	13.49 13.63	10346	38794	TechnicalChlordane Peak 2	0.200000	51725	
13.71		956					
13.84		1908					
13.93		1685					
14.02		3197					
14.18		1639					
14.28		362					
14.45		5997					
14.59		674					
14.71		9073					
14.81		2160					
14.95	14.88 15.02	27621	103579	TechnicalChlordane Peak 3	0.200000	138105	
15.02		1075					
15.16		25201					
15.28	15.21 15.35	23074	86528	TechnicalChlordane Peak 4	0.200000	115370	
15.40		151					
15.45		616					
15.60		1171					
15.65		750					
15.81		2596					
16.02		4431					
16.22		746					

CompuChem

Lab Smp Id : 0E27016-ARC2 Client Smp Id : CHLORO3DA
Sample Type : INITIAL CAL: Level 2 Sublist : TechChlor
Inj Date : 28-MAY-2010 22:08 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3DA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
16.30		1467					
16.43		1213					
16.60		2110					
16.69		1360					
16.86		5826					
17.04		618					
17.09		900					
17.24	17.17 17.31	10498	39368	TechnicalChlordane Peak 5	0.200000	52490	
17.33		126					
17.48		578					
17.54		486					
17.75		304					
17.92		1212					
18.15		184					
18.21		504					
18.50		199					
18.63		422					
19.09		228					
19.48		629					
19.64		461					
19.83		250					
19.91		390					
22.54	22.47 22.61	17117	430874	Decachlorobiphenyl	0.020000	481500	

Data File: /chem/tracegc82.i/e100528_2C.b/011e0E27016-SCV1.d

Date : 28-MAY-2010 22:37

Client ID: PESTCHKDA

Instrument: tracegc82.i

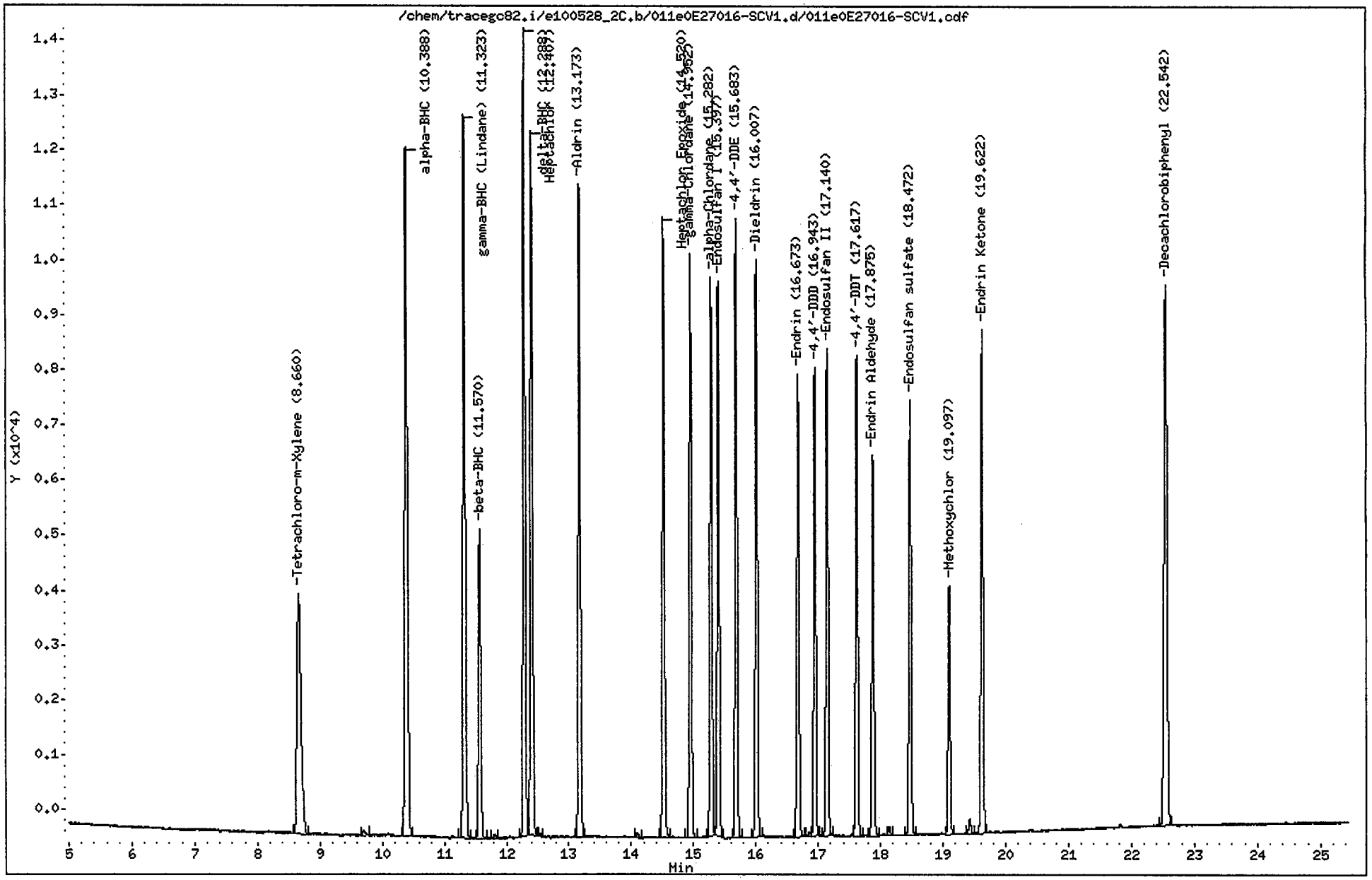
Sample Info: 0E27016-SCV1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0E27016-SCV1 Client Smp Id : PESTCHKDA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 28-MAY-2010 22:37 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : INDAchek
Method : /chem/tracegc82.i/e100528_2C.b/8081A_clpest2v6.m
Misc. Info : PESTCHKDA

RT	AREA
1.35	395
1.50	52854
8.66	20264
9.70	276
10.39	37170
11.32	34104
11.57	13986
11.80	155
12.29	33478
12.41	31576
12.54	150
13.17	28915
14.09	238
14.52	26133
14.95	24795
15.28	23463
15.40	23754
15.68	25166
16.01	24574
16.67	20333
16.86	180
16.94	18922
17.14	21239
17.62	20207
17.87	16606
18.14	343
18.47	19325
19.10	10315
19.43	652
19.62	22381
22.54	32153

Manual Integrations							
SDG:							
Sample(s)	0E27016-PEM1	0E27016-ARC1					
Compound							
alpha-BHC							
gamma-BHC							
beta-BHC							
delta-BHC							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
gamma-Chlordane							
alpha-Chlordane							
Endosulfan I							
4,4'-DDE							
Dieldrin							
Endrin							
4,4'-DDD							
Endosulfan II							
4,4'-DDT							
Endrin Aldehyde	x						
Endosulfan sulfate							
Methoxychlor							
Endrin Ketone							
Toxaphene		x					
Technical Chordane							
Tetrachloro-m-xylene							
Decachlorbiphenyl							
"X" Denotes a manual integration for the compound							

Data File: /chem/tracegc82.i/e100528a.b/014eSEQ-CCV1.d

Date : 29-MAY-2010 00:05

Client ID: INDC3EB

Sample Info: SEQ-CCV1

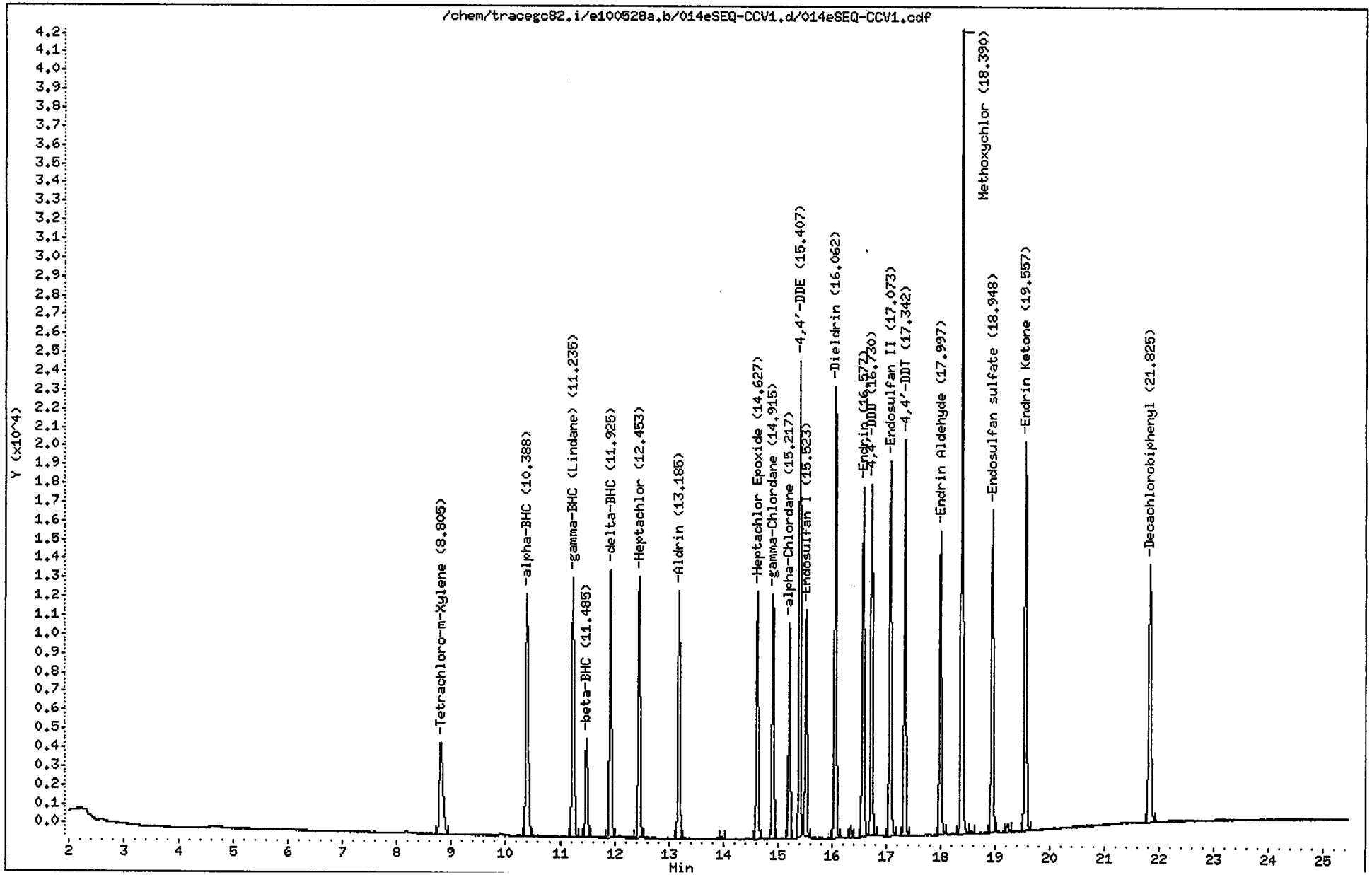
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3EB
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 00:05 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a.b/8081A_clpestv6.m
Misc. Info : INDC3EB

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.49			3280								
8.80	8.73	8.87	22397	1040565	Tetrachloro-m-Xylene	0.020000	1119825	-7.6	20.0		
10.39	10.32	10.46	40901	1883720	alpha-BHC	0.020000	2045068	-8.6	20.0		
11.24	11.17	11.31	38611	1779425	gamma-BHC (Lindane)	0.020000	1930535	-8.5	20.0		
11.48	11.41	11.55	14511	671198	beta-BHC	0.020000	725530	-8.1	20.0		
11.92	11.85	11.99	36861	1699815	delta-BHC	0.020000	1843060	-8.4	20.0		
12.45	12.38	12.52	36122	1660668	Heptachlor	0.020000	1806110	-8.8	20.0		
13.18	13.11	13.25	33377	1536782	Aldrin	0.020000	1668870	-8.6	20.0		
13.98			369								
14.63	14.55	14.69	31257	1449945	Heptachlor Epoxide	0.020000	1562850	-7.8	20.0		
14.92	14.84	14.98	31038	1446418	gamma-Chlordane	0.020000	1551888	-7.3	20.0		
15.22	15.15	15.29	27280	1263455	alpha-Chlordane	0.020000	1364023	-8.0	20.0		
15.41	15.33	15.47	56934	1321226	4,4'-DDE	0.040000	1423355	-7.7	20.0		
15.52	15.45	15.59	29153	1354612	Endosulfan I	0.020000	1457660	-7.6	20.0		
16.06	15.99	16.13	57034	1325039	Dieldrin	0.040000	1425844	-7.6	20.0		
16.35			1489								
16.58	16.51	16.65	44940	1038264	Endrin	0.040000	1123500	-8.2	20.0		
16.73	16.66	16.80	42909	1003289	4,4'-DDD	0.040000	1072723	-6.9	20.0		
17.07	17.00	17.14	49224	1146620	Endosulfan II	0.040000	1230608	-7.3	20.0		
17.34	17.27	17.41	48448	1132045	4,4'-DDT	0.040000	1211195	-7.0	20.0		
18.00	17.92	18.06	40277	925036	Endrin Aldehyde	0.040000	1006929	-8.9	20.0		
18.39	18.32	18.46	102186	476818	Methoxychlor	0.200000	510928	-7.2	20.0		
18.56			528								
18.95	18.87	19.01	43424	1022702	Endosulfan sulfate	0.040000	1085593	-6.1	20.0		
19.23			1131								
19.56	19.48	19.62	52626	1256034	Endrin Ketone	0.040000	1315655	-4.7	20.0		
21.82	21.75	21.89	42930	1016676	Decachlorobiphenyl	0.040000	1073243	-5.6	20.0		

6/11/10

Data File: /chem/tracegc82.i/e100528a.b/015eSEQ-PEM1.d

Date : 29-MAY-2010 00:34

Client ID: PEMEB

Sample Info: SEQ-PEM1

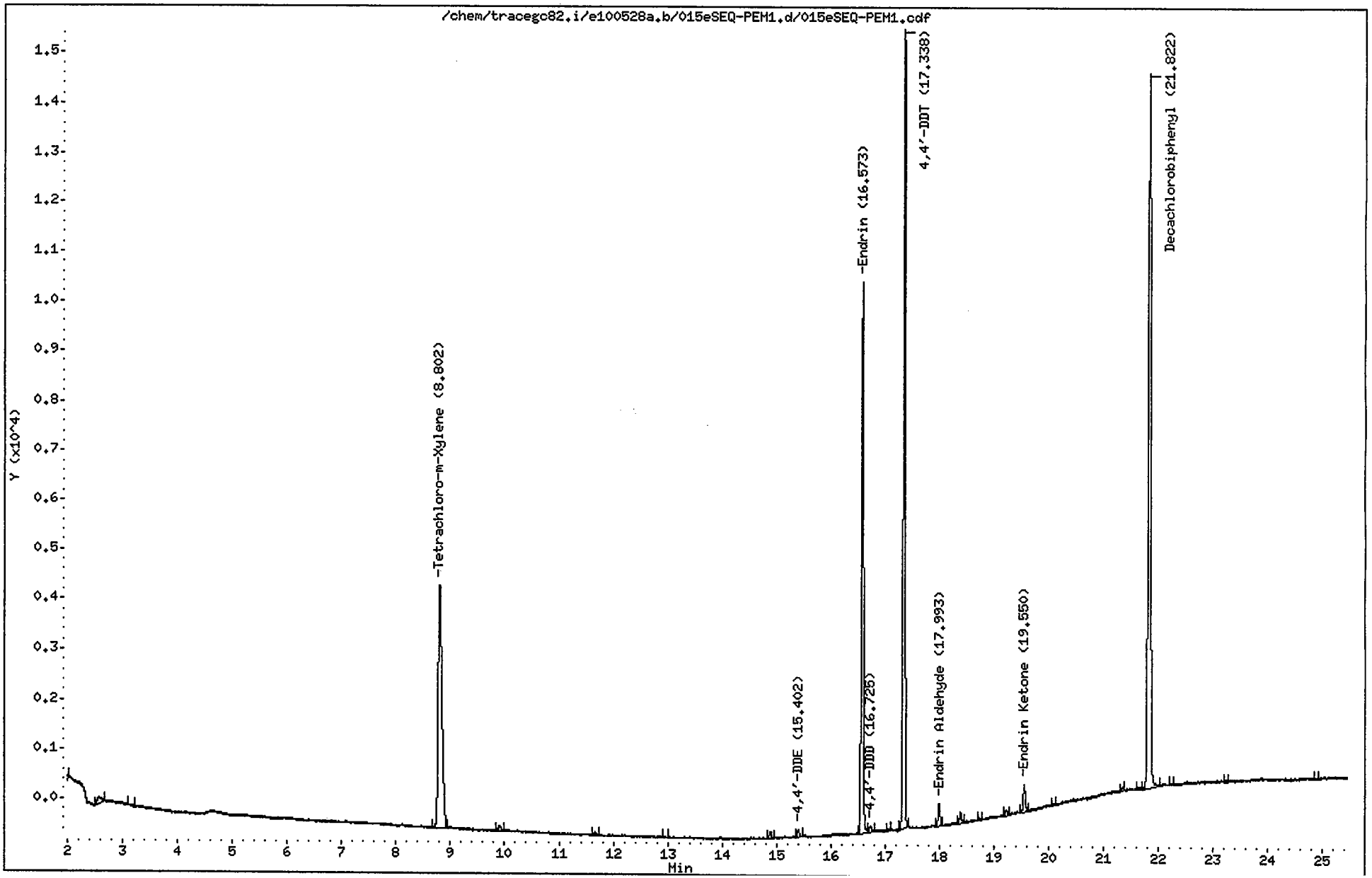
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMEB
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 00:34 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a.b/8081A_clpestv6.m
Misc. Info : PEMEB

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.04			513								
1.33			963								
1.46			30099								
2.57			764								
3.13			102								
8.80	8.73	8.87	23628	1040565	Tetrachloro-m-Xylene	0.022707	0.022707		114.7	43 - 135	
9.91			350								
11.67			213								
12.95			111								
14.89			359								
15.40	15.33	15.47	400	1321226	4,4'-DDE	0.000303	0.000303	0.020000			J
16.57	16.51	16.65	26938	1038264	Endrin	0.025945	0.025945	0.020000			
16.72	16.66	16.80	388	1003289	4,4'-DDD	0.000387	0.000387	0.020000			J
17.07			111								
17.34	17.27	17.41	37743	1132045	4,4'-DDT	0.033341	0.033341	0.020000			
17.99	17.92	18.06	1166	925036	Endrin Aldehyde	0.001260	0.001260	0.020000			J
18.38			563								
18.74			87								
19.23			290								
19.55	19.48	19.62	1465	1256034	Endrin Ketone	0.001166	0.001166	0.020000			J
20.09			151								
21.34			204								
21.65			156								
21.82	21.75	21.89	45493	1016676	Decachlorobiphenyl	0.044746	0.044746		113.0	43 - 144	
22.21			96								
23.22			87								
24.88			97								

6/1/10

Data File: /chem/tracegc82.i/e100528a_2C.b/014eSEQ-CCV1.d

Date : 29-MAY-2010 00:05

Client ID: INDC3EB

Sample Info: SEQ-CCV1

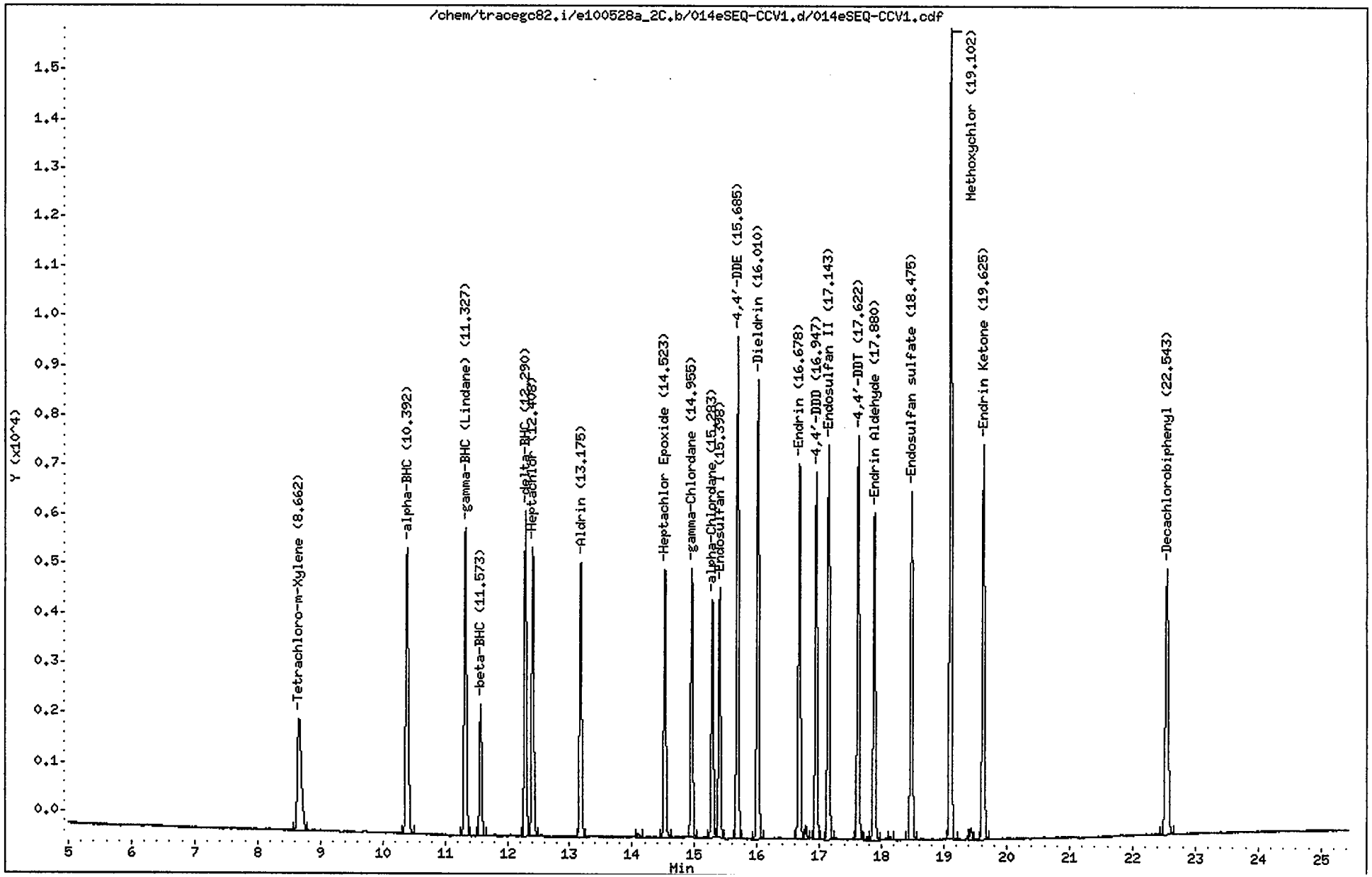
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3EB
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 00:05 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3EB

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.35			349								
1.50			3861								
2.54			551								
8.66	8.59	8.73	10256	503158	Tetrachloro-m-Xylene	0.020000	512780	-1.9	20.0		
10.39	10.32	10.46	16711	830132	alpha-BHC	0.020000	835545	-0.7	20.0		
11.33	11.25	11.39	15844	788408	gamma-BHC (Lindane)	0.020000	792215	-0.5	20.0		
11.57	11.50	11.64	6474	317558	beta-BHC	0.020000	323710	-1.9	20.0		
12.29	12.22	12.36	15007	751010	delta-BHC	0.020000	750348	0.1	20.0		
12.41	12.34	12.48	14443	707456	Heptachlor	0.020000	722130	-2.1	20.0		
13.18	13.11	13.25	13345	662068	Aldrin	0.020000	667242	-0.8	20.0		
14.10			233								
14.52	14.45	14.59	12628	626245	Heptachlor Epoxide	0.020000	631405	-0.8	20.0		
14.96	14.88	15.02	12605	627128	gamma-Chlordane	0.020000	630227	-0.5	20.0		
15.28	15.21	15.35	10954	543742	alpha-Chlordane	0.020000	547695	-0.7	20.0		
15.40	15.33	15.47	11787	584790	Endosulfan I	0.020000	589360	-0.8	20.0		
15.68	15.61	15.75	22423	562749	4,4'-DDE	0.040000	560566	0.4	20.0		
16.01	15.94	16.08	21649	543158	Dieldrin	0.040000	541228	0.4	20.0		
16.68	16.61	16.75	18055	447924	Endrin	0.040000	451387	-0.8	20.0		
16.79			600								
16.95	16.88	17.02	16443	414075	4,4'-DDD	0.040000	411071	0.7	20.0		
17.14	17.07	17.21	18961	473162	Endosulfan II	0.040000	474022	-0.2	20.0		
17.62	17.55	17.69	18467	466515	4,4'-DDT	0.040000	461680	1.0	20.0		
17.77			153								
17.88	17.81	17.95	15876	389549	Endrin Aldehyde	0.040000	396894	-1.9	20.0		
18.14			120								
18.48	18.41	18.55	16981	424500	Endosulfan sulfate	0.040000	424513	0.0	20.0		
19.10	19.03	19.17	37513	190365	Methoxychlor	0.200000	187565	1.5	20.0		
19.43			539								
19.62	19.55	19.69	19595	493585	Endrin Ketone	0.040000	489882	0.8	20.0		
22.54	22.47	22.61	17270	430874	Decachlorobiphenyl	0.040000	431745	-0.2	20.0		

6/1/10

Data File: /chem/tracegc82.i/e100528a_2C.b/015eSEQ-PEM1.d

Page 1

Date : 29-MAY-2010 00:34

Client ID: PEMEB

Instrument: tracegc82.i

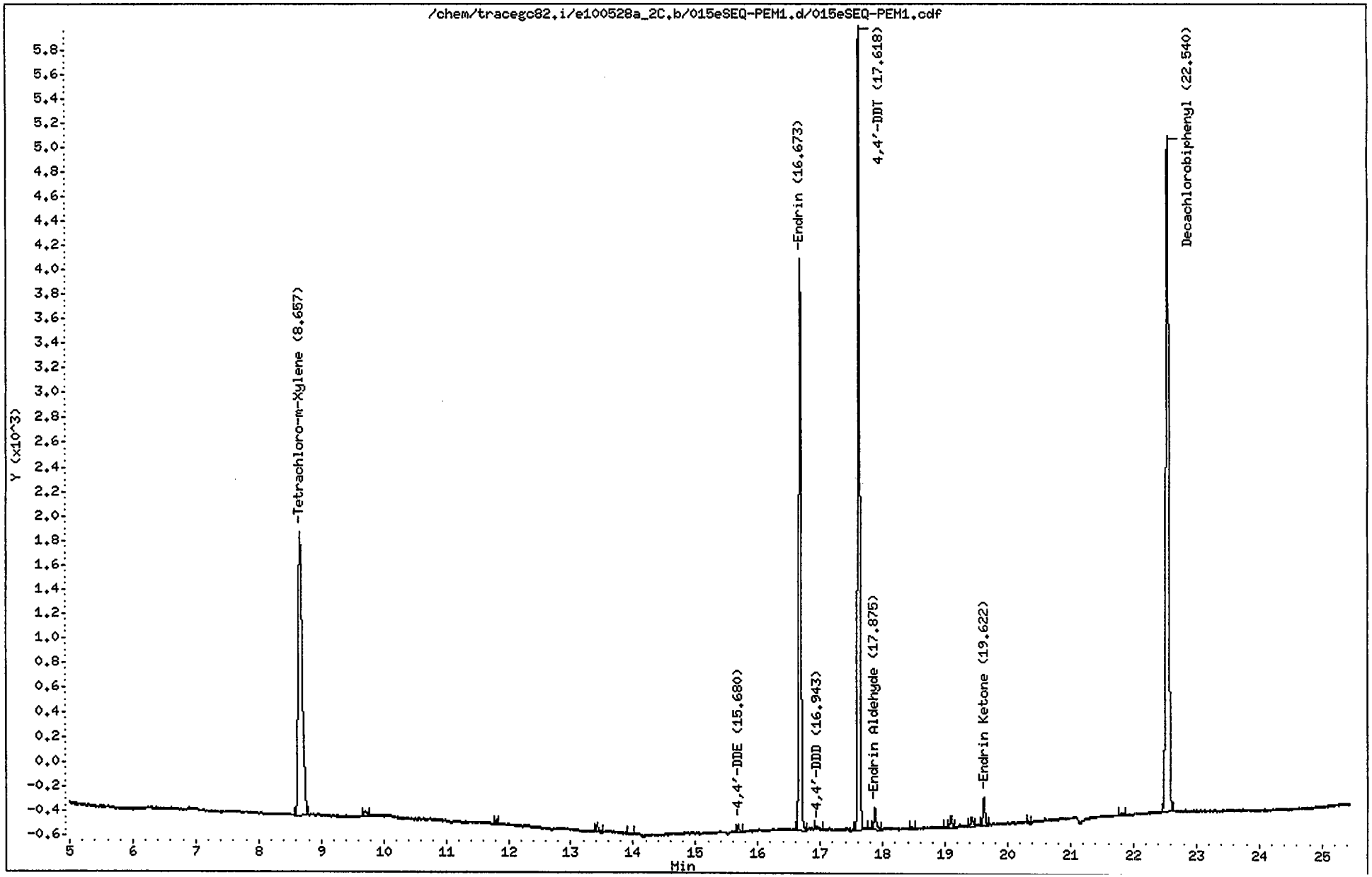
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMEB
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 00:34 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a_2C.b/8081A_clpest2v6.m
Misc. Info : PEMEB

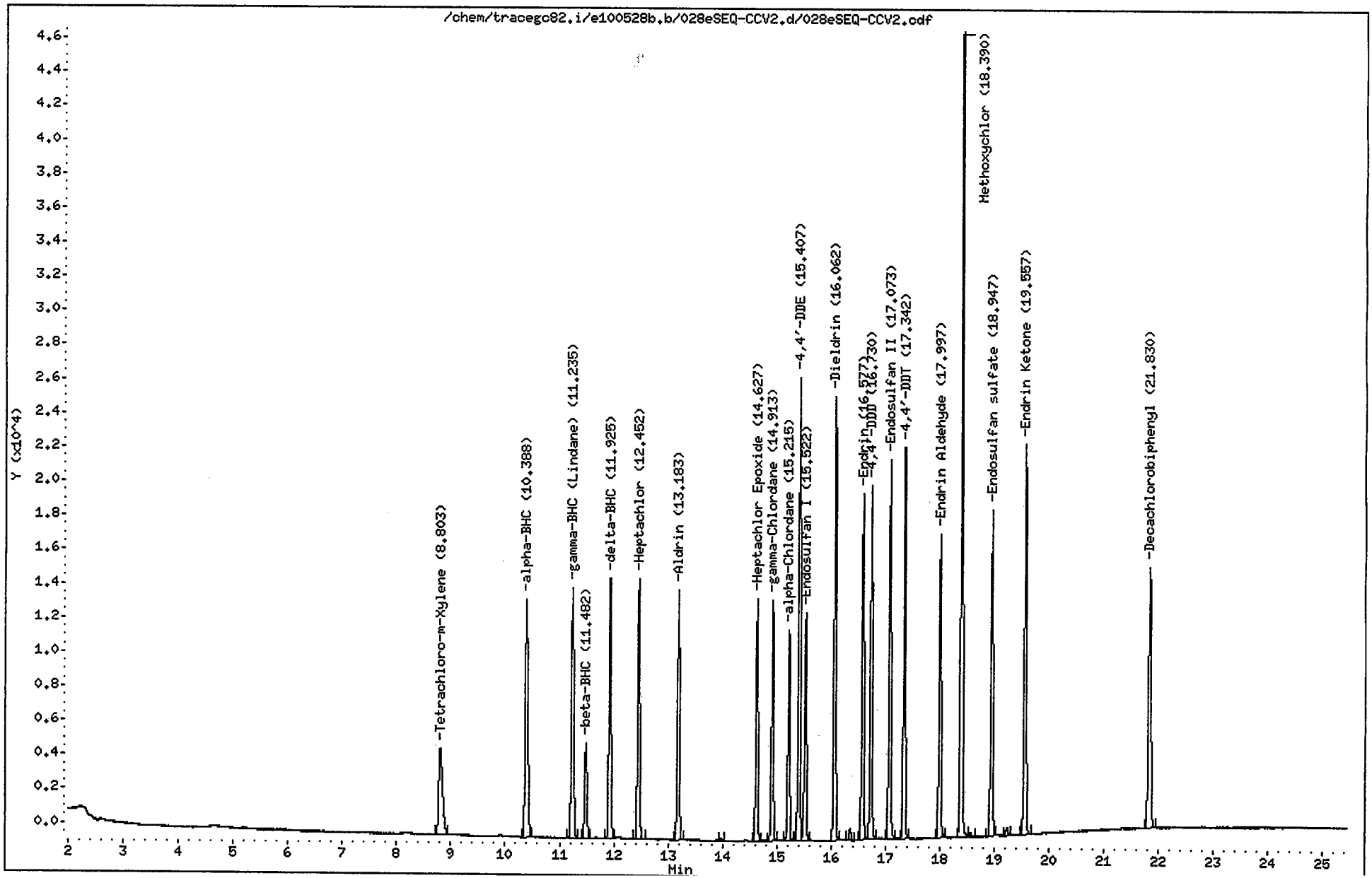
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.75		45								
1.04		85								
1.35		344								
1.49		57303								
2.50		381								
2.54		138								
3.51		44								
8.66	8.59 8.73	10594	503158	Tetrachloro-m-Xylene	0.021056	0.021056		106.3	43 - 135	
9.71		136								
11.79		69								
13.42		179								
13.92		47								
15.68	15.61 15.75	161	562749	4,4'-DDE	0.000286	0.000286	0.020000			J
16.67	16.61 16.75	11110	447924	Endrin	0.024804	0.024804	0.020000			
16.94	16.88 17.02	100	414075	4,4'-DDD	0.000241	0.000241	0.020000			J
17.62	17.55 17.69	14774	466515	4,4'-DDT	0.031669	0.031669	0.020000			
17.88	17.81 17.95	506	389549	Endrin Aldehyde	0.001298	0.001298	0.020000			J
18.48		50								
19.01		41								
19.10		208								
19.43		198								
19.62	19.55 19.69	588	493585	Endrin Ketone	0.001192	0.001192	0.020000			J
20.32		45								
21.82		98								
22.54	22.47 22.61	17824	430874	Decachlorobiphenyl	0.041367	0.041367		104.5	43 - 144	

Data File: /chem/tracegc82.i/e100528b.b/028eSEQ-CCV2.d
Date : 29-MAY-2010 06:52
Client ID: INDC3ED
Sample Info: SEQ-CCV2
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc82.i
Operator: BWL
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3ED
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 06:52 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528b.b/8081A_clpestv6.m
Misc. Info : INDC3ED

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.37			455								
1.48			38348								
8.80	8.73	8.87	24292	1040565	Tetrachloro-m-Xylene	0.020000	1214587	-16.7	20.0		
10.39	10.32	10.46	44732	1883720	alpha-BHC	0.020000	2236623	-18.7	20.0		
11.24	11.17	11.31	42124	1779425	gamma-BHC (Lindane)	0.020000	2106205	-18.4	20.0		
11.48	11.41	11.55	15632	671198	beta-BHC	0.020000	781593	-16.4	20.0		
11.92	11.85	11.99	40178	1699815	delta-BHC	0.020000	2008915	-18.2	20.0		
12.45	12.38	12.52	39542	1660668	Heptachlor	0.020000	1977085	-19.1	20.0		
13.18	13.11	13.25	36412	1536782	Aldrin	0.020000	1820600	-18.5	20.0		
13.97			395								
14.63	14.55	14.69	34099	1449945	Heptachlor Epoxide	0.020000	1704930	-17.6	20.0		
14.91	14.84	14.98	33941	1446418	gamma-Chlordane	0.020000	1697065	-17.3	20.0		
15.22	15.15	15.29	29649	1263455	alpha-Chlordane	0.020000	1482475	-17.3	20.0		
15.41	15.33	15.47	62939	1321226	4,4'-DDE	0.040000	1573463	-19.1	20.0		
15.52	15.45	15.59	32409	1354612	Endosulfan I	0.020000	1620468	-19.6	20.0		
16.06	15.99	16.13	62405	1325039	Dieldrin	0.040000	1560126	-17.7	20.0		
16.35			1608								
16.58	16.51	16.65	49507	1038264	Endrin	0.040000	1237671	-19.2	20.0		
16.73	16.66	16.80	47088	1003289	4,4'-DDD	0.040000	1177210	-17.3	20.0		
17.07	17.00	17.14	53787	1146620	Endosulfan II	0.040000	1344680	-17.3	20.0		
17.34	17.27	17.41	53184	1132045	4,4'-DDT	0.040000	1329603	-17.5	20.0		
18.00	17.92	18.06	44221	925036	Endrin Aldehyde	0.040000	1105517	-19.5	20.0		
18.39	18.32	18.46	112499	476818	Methoxychlor	0.200000	562497	-18.0	20.0		
18.56			683								
18.95	18.87	19.01	47513	1022702	Endosulfan sulfate	0.040000	1187828	-16.1	20.0		
19.23			1199								
19.56	19.48	19.62	57761	1256034	Endrin Ketone	0.040000	1444021	-15.0	20.0		
21.83	21.75	21.89	47874	1016676	Decachlorobiphenyl	0.040000	1196855	-17.7	20.0		

Data File: /chem/tracegc82.i/e100528b.b/029eSEQ-PEM2.d

Page 1

Date : 29-MAY-2010 07:22

Client ID: PEMED

Instrument: tracegc82.i

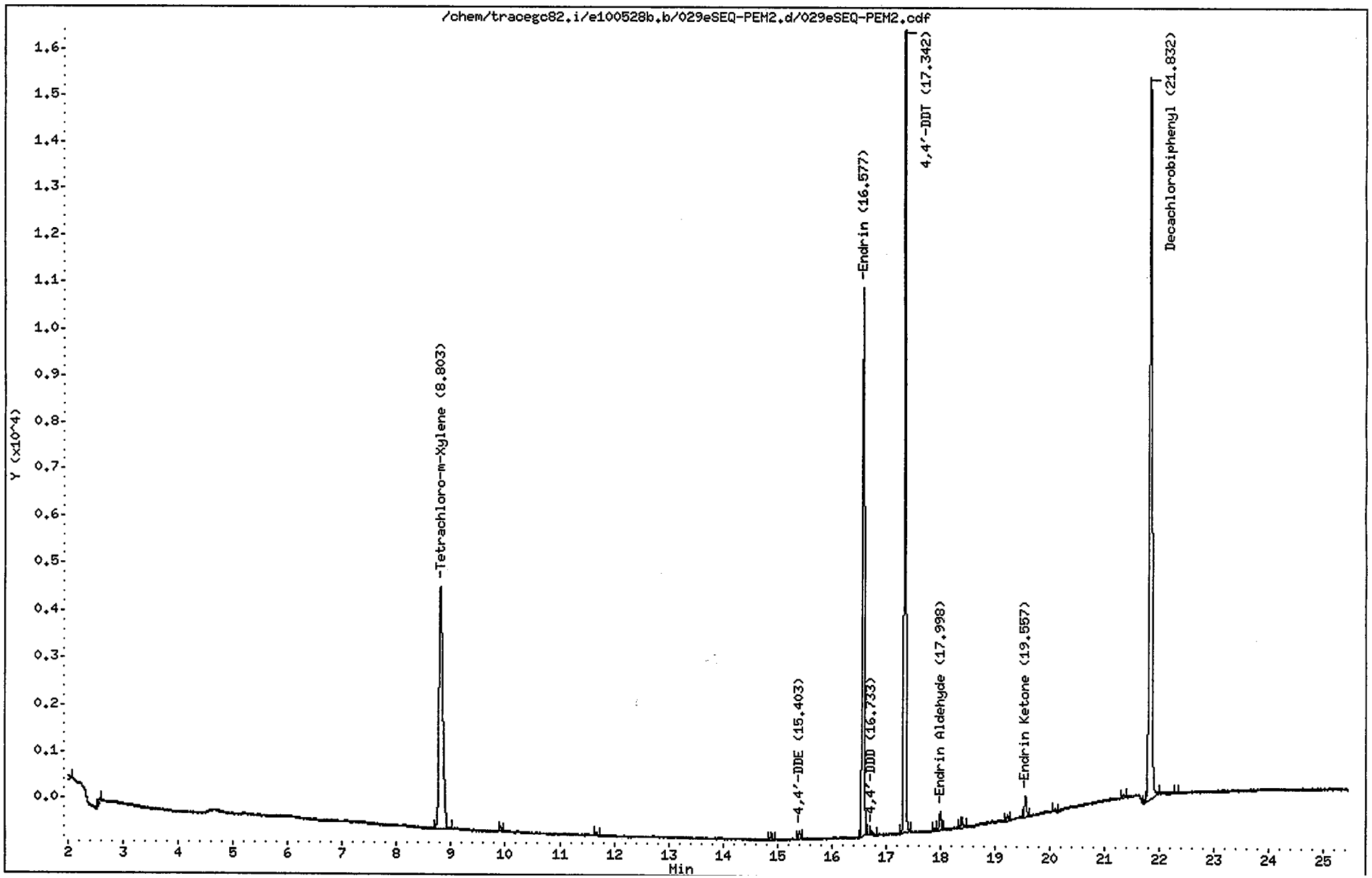
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMED
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 07:22 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528b.b/8081A_clpestv6.m
Misc. Info : PEMED

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.03		163								
0.41		98								
1.05		148								
1.28		99								
1.32		176								
1.34		270								
1.37		483								
1.48		34833								
2.57		317								
8.80	8.73 8.87	25003	1040565	Tetrachloro-m-Xylene	0.024028	0.024028		121.4	43 - 135	
9.91		270								
11.66		198								
14.89		371								
15.40	15.33 15.47	356	1321226	4,4'-DDE	0.000269	0.000269	0.020000			J
16.58	16.51 16.65	28724	1038264	Endrin	0.027665	0.027665	0.020000			
16.73	16.66 16.80	268	1003289	4,4'-DDD	0.000267	0.000267	0.020000			J
17.34	17.27 17.41	39989	1132045	4,4'-DDT	0.035325	0.035325	0.020000			
17.88		134								
18.00	17.92 18.06	925	925036	Endrin Aldehyde	0.001000	0.001000	0.020000			J
18.39		516								
19.23		333								
19.56	19.48 19.62	1192	1256034	Endrin Ketone	0.000949	0.000949	0.020000			J
20.09		221								
21.34		228								
21.74		107								
21.83	21.75 21.89	48952	1016676	Decachlorobiphenyl	0.048149	0.048149		121.6	43 - 144	
22.29		113								

Data File: /chem/tracegc82.i/e100528b_2C.b/028eSEQ-CCV2.d

Page 1

Date : 29-MAY-2010 06:52

Client ID: INDC3ED

Instrument: tracegc82.i

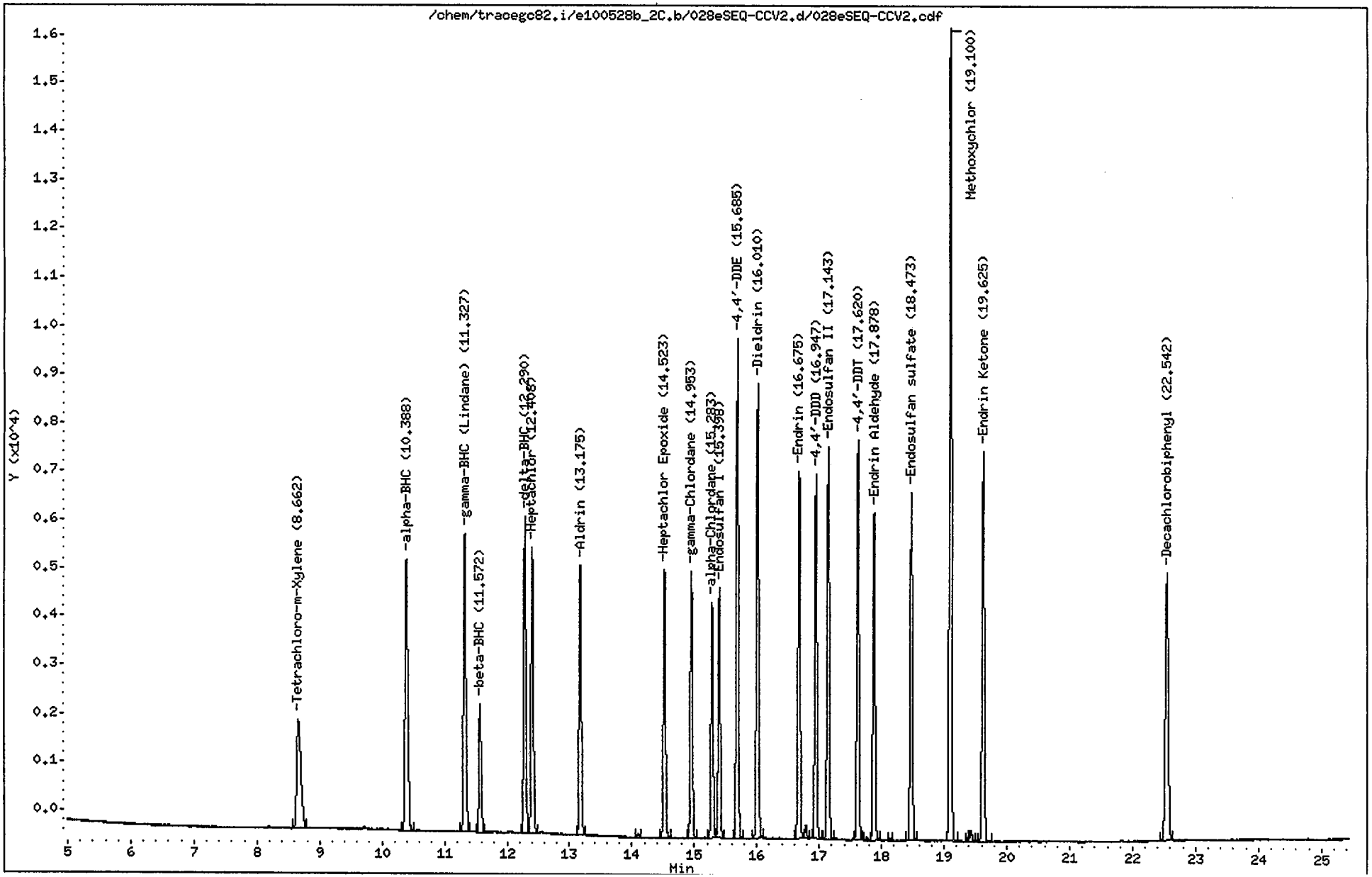
Sample Info: SEQ-CCV2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3ED
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 29-MAY-2010 06:52 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528b_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3ED

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.35			386								
1.51			5117								
2.54			195								
8.66	8.59	8.73	10354	503158	Tetrachloro-m-Xylene	0.020000	517718	-2.9	20.0		
10.39	10.32	10.46	16831	830132	alpha-BHC	0.020000	841565	-1.4	20.0		
11.33	11.25	11.39	16032	788408	gamma-BHC (Lindane)	0.020000	801605	-1.7	20.0		
11.57	11.50	11.64	6539	317558	beta-BHC	0.020000	326965	-3.0	20.0		
12.29	12.22	12.36	15126	751010	delta-BHC	0.020000	756290	-0.7	20.0		
12.41	12.34	12.48	14692	707456	Heptachlor	0.020000	734595	-3.8	20.0		
13.18	13.11	13.25	13468	662068	Aldrin	0.020000	673402	-1.7	20.0		
14.10			157								
14.52	14.45	14.59	12792	626245	Heptachlor Epoxide	0.020000	639580	-2.1	20.0		
14.95	14.88	15.02	12846	627128	gamma-Chlordane	0.020000	642300	-2.4	20.0		
15.28	15.21	15.35	11114	543742	alpha-Chlordane	0.020000	555705	-2.2	20.0		
15.40	15.33	15.47	11937	584790	Endosulfan I	0.020000	596850	-2.1	20.0		
15.68	15.61	15.75	22876	562749	4,4'-DDE	0.040000	571890	-1.6	20.0		
16.01	15.94	16.08	22015	543158	Dieldrin	0.040000	550386	-1.3	20.0		
16.68	16.61	16.75	18278	447924	Endrin	0.040000	456959	-2.0	20.0		
16.78			564								
16.95	16.88	17.02	16749	414075	4,4'-DDD	0.040000	418730	-1.1	20.0		
17.14	17.07	17.21	19295	473162	Endosulfan II	0.040000	482383	-1.9	20.0		
17.62	17.55	17.69	18848	466515	4,4'-DDT	0.040000	471195	-1.0	20.0		
17.76			138								
17.88	17.81	17.95	16123	389549	Endrin Aldehyde	0.040000	403073	-3.5	20.0		
18.14			121								
18.47	18.41	18.55	17299	424500	Endosulfan sulfate	0.040000	432467	-1.9	20.0		
19.10	19.03	19.17	38348	190365	Methoxychlor	0.200000	191738	-0.7	20.0		
19.39			147								
19.43			532								
19.62	19.55	19.69	19973	493585	Endrin Ketone	0.040000	499330	-1.2	20.0		
22.54	22.47	22.61	17651	430874	Decachlorobiphenyl	0.040000	441281	-2.4	20.0		

Data File: /chem/tracegc82.i/e100528b_2C.b/029eSEQ-PEM2.d

Page 1

Date : 29-MAY-2010 07:22

Client ID: PEMED

Instrument: tracegc82.i

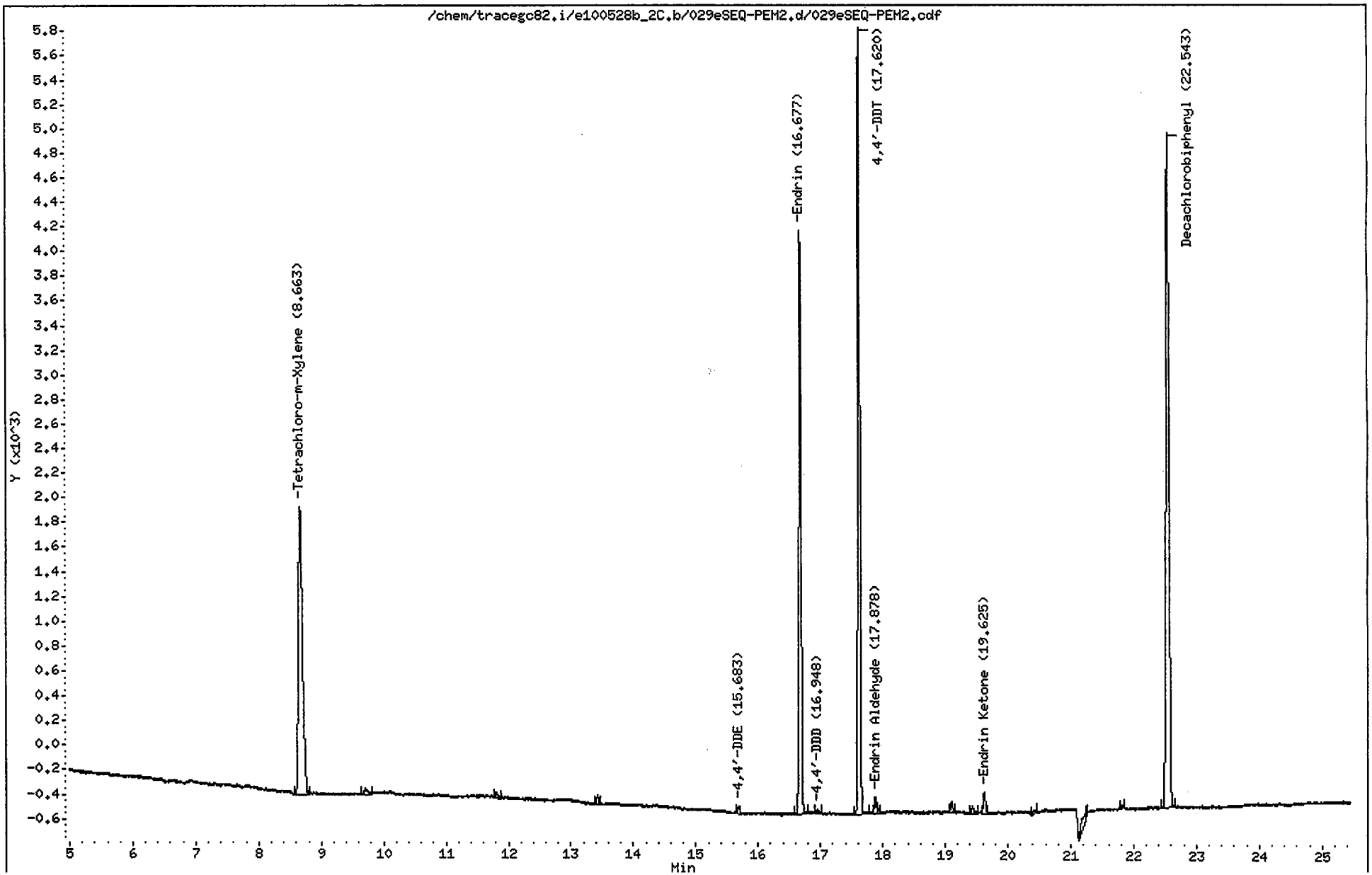
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMED
Sample Type : SAMPLE Sublist : PEM
Inj Date : 29-MAY-2010 07:22 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528b_2C.b/8081A_clpest2v6.m
Misc. Info : PEMED

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

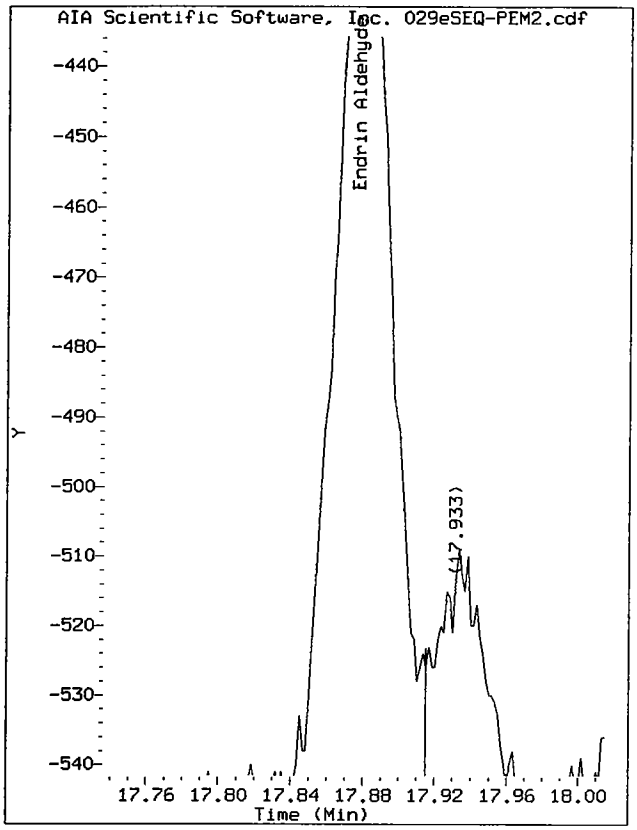
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.04			45								
1.29			85								
1.35			530								
1.51			60701								
2.52			254								
4.75			42								
8.66	8.59	8.73	10569	503158	Tetrachloro-m-Xylene	0.021006	0.021006		106.1	43 - 135	
9.71			191								
11.80			124								
13.43			175								
15.68	15.61	15.75	135	562749	4,4'-DDE	0.000240	0.000240	0.020000			J
16.68	16.61	16.75	11217	447924	Endrin	0.025042	0.025042	0.020000			
16.95	16.88	17.02	71	414075	4,4'-DDD	0.000171	0.000171	0.020000			J
17.62	17.55	17.69	14659	466515	4,4'-DDT	0.031422	0.031422	0.020000			
17.88	17.81	17.95	300	389549	Endrin Aldehyde	0.000770	0.000770	0.020000			JM ✓
17.93			61								
19.10			187								
19.43			159								
19.62	19.55	19.69	437	493585	Endrin Ketone	0.000886	0.000886	0.020000			J
20.41			67								
21.23			402								
21.25			48								
21.82			56								
22.54	22.47	22.61	17631	430874	Decachlorobiphenyl	0.040920	0.040920		103.3	43 - 144	

pm 6/1/10

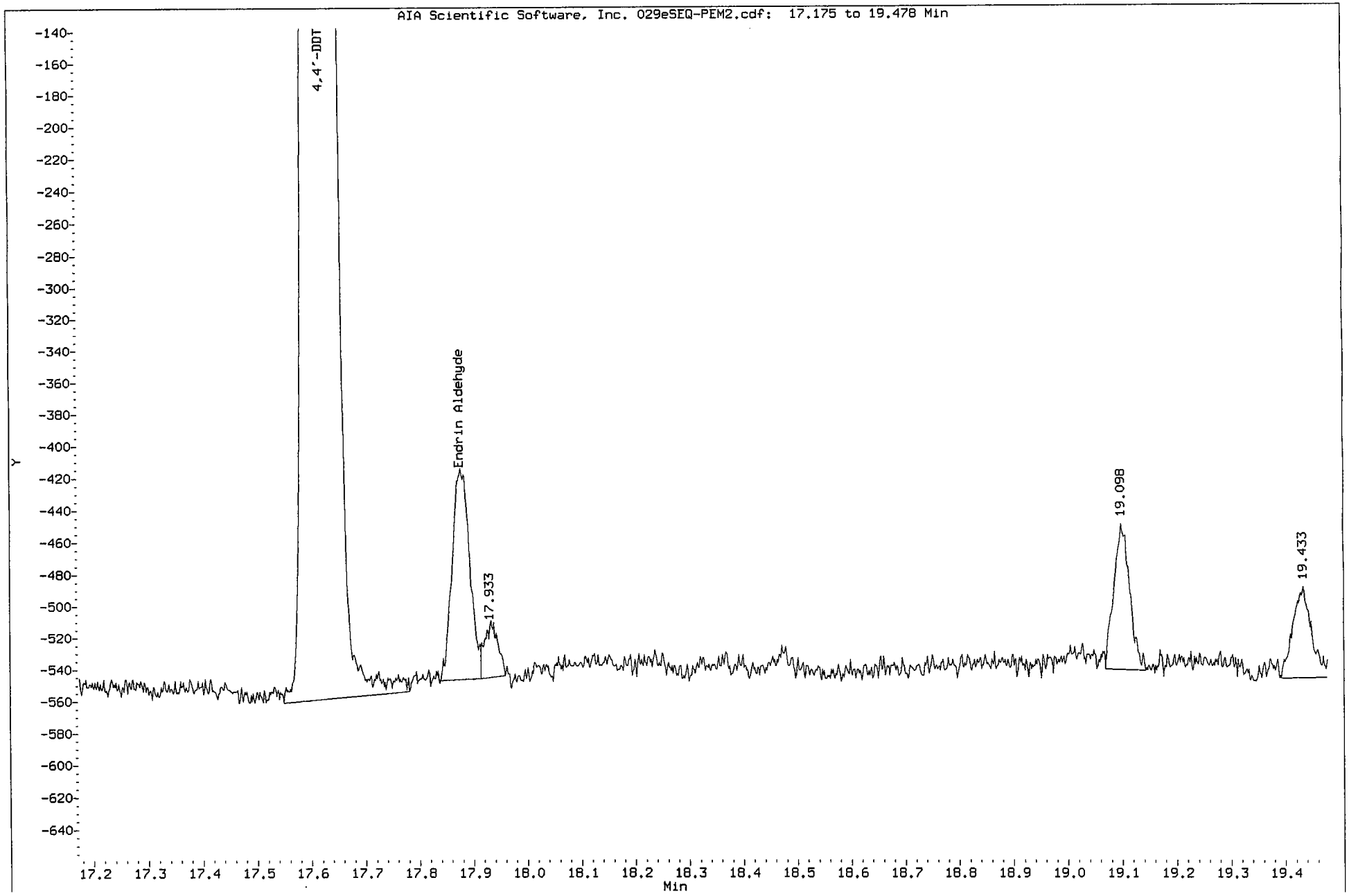
6/1/10

Manually Integrated Peaks



Start: 17.84 Stop: 17.91

Data File: /chem/tracegc82.i/e100528b_2C.b/029eSEQ-PEM2.d/029eSEQ-PEM2.cdf
Injection Date: 29-MAY-2010 07:22
Instrument: tracegc82.i
Client Sample ID: PEMED



Manual Integrations							
SDG:							
Sample(s)	SEQ-PEM2						
Compound							
alpha-BHC							
gamma-BHC							
beta-BHC							
delta-BHC							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
gamma-Chlordane							
alpha-Chlordane							
Endosulfan I							
4,4'-DDE							
Dieldrin							
Endrin							
4,4'-DDD							
Endosulfan II							
4,4'-DDT							
Endrin Aldehyde	x						
Endosulfan sulfate							
Methoxychlor							
Endrin Ketone							
Toxaphene							
Technical Chordane							
Tetrachloro-m-xylene							
Decachlorbiphenyl							
"X" Denotes a manual integration for the compound							

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 9100505 Date 5/5/10
GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)
LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1	✓	1		5/5/10	Hexane	Std	NA	AHW	wt
2	✓	2		/ /	Hexane	↓			
3		3	✓	/ /	0E05010 - PEM1	0002005			
4		4	✓	/ /	CAL1	0023001			
5		5	✓	/ /	2	0026002			
6		6	✓	/ /	3	0026003			
7		7	✓	/ /	4	0026004			
8		8	✓	/ /	↓ 5	0026005			
9		9	✓	/ /	ARC1	0016008			
10		10	✓	/ /	↓ 2	0002004			
11		11	✓	/ /	CAL6	0324009			
12		12	✓	/ /	7	0324010			
13		13	✓	/ /	8	0015043			
14		14	✓	/ /	9	0324013			
15		15	✓	/ /	↓ A	0324014			
16		16	✓	/ /	ARC3	9K24015			
17		17	✓	/ /	4	9K25008			
18		18	✓	/ /	5	9K25013			
19		19	✓	5/6/10	6	0512007			
20		20	✓	↓ /	↓ 7	0C17001	↓	↓	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: _____ Sequence ID: 0E05010 Hexane Lot No 71940

REVIEWED BY: _____ DATE 5/7/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: g100509 Date 5/6/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		21		5/6/10	OE03010-ICV1	OB23009	NA	AHW	wp
2		22		↓	ICV2	OB01002	↓	↓	↓
3				/ /					
4				/ /					
5				/ /					
6				/ /					
7				/ /					
8				/ /					
9				/ /					
10				/ /					
11				/ /					
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: _____ Sequence ID: OE05010 Hexane Lot No 71940

REVIEWED BY: _____ DATE 5/7/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp
GC EXTRACTABLES RUN LOG
LOGBOOK 4 N (4) 38

Instrument ID 84/85

Method: 8081A 8081B 8082 8082A 8151A

Sequence ID: 9100505 [illegible]
Amt.Inj. 2 µL (1 µL per column)

Date 5/19/10

SOM01.2 or Other: ______

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM#	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		376		5/19/10	SEQ-1661	0E0701	~~[illegible]~~ [illegible]		
2		377	/	/ /	-CCB1	↓	[illegible]	[illegible]	
3	/	378		/ /	-CCV1	0E14052	AR1660316		
4		379	/	/ /	-CCV2	0E11005	IND0316		
5		380	/	/ /	-PEM1	0D02005	PEM16		
6		381	/	/ /	0051964-6BC1	1005131			
7	/	382	WS	/ /	-BS1				
8	/	383	WS	/ /	-BS01				
9	/	384	/	/ /	1005131-01				
10	/	385	WS	/ /	02				
11	/	386	WS	/ /	03	↓			
12		387		/ /	SEQ-1662	0E0701			
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 5/24/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA

Sequence ID: NA

Hexane Lot No 71940

REVIEWED BY: KEH

DATE 5/24/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: q100505eh Date 5/19/10
GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)
LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		388	✓	5/19/10	SEW-CCH2	OE6001	NA	CO	not used
2		389	✓	/ /	-CW3	OE1402			
3		390	✓	/ /	-CW4	OE1107			
4		391	✓	/ /	-PEM2	OD1207			
5				/ /					
6				/ /					
7				/ /					
8				/ /					
9				/ /					
10				/ /					
11				/ /					
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

KEH 5/24/10

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 5/24/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: q10505ek Date 5/21/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: (8081A 8081B) 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	SELECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1	✓	406		5/21/10	SEQ-1661	0E31001		LQ	
2		407	✓	/ /	-CCB1	↓	PIBLKRUN4	↓	
3		408	✓	/ /	-CCV1	0E1K05T	10MLSRX		
4		409	✓	/ /	-PEM1	0AU20ST	PEMRX		
5		410	✓	/ /	0502 020-BLK1	10ST51RE1			
6		411	✓	/ /	-BS1	↓			
7		412	✓	/ /	-BSD1				
8		413	✓	/ /	10UT151-01RE1				
9		414	✓	/ /	02				
10		415	✓	/ /	03				
11		416	✓	/ /	SEQ-1662				
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

KEH 5/24/10

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 5/24/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 84/85 Sequence ID: 100527 1 Date 5/21/10

GC EXTRACTABLES RUN LOG Amt.Inj. 2 µL (1 µL per column)

LOGBOOK 4 N (4) 38 Method: 8081A 8081B 8082 8082A 8151A SOM01.2 or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		417	✓	5/21/10	SEQ-CCV2	DE6001	PIBZNCRTRZ	LO	
2	✓	418		/ /	-CCV2	DE14002	ARIB6037RZ		
3		419	✓	/ /	-CCV3	DE11007	TMB23RZ		
4		420	✓	/ /	-BLK2	DD052405	PBMRZ		
5		421		/ /	005128-BLK1	1035894			
6		422		/ /	-BS1				
7		423		/ /	-BS2				
8		424		/ /	-BSD1				
9		425		/ /	-BSD2				
10		426		/ /	1035044-01				10X
11		427		/ /	↓ 02				10X
12		428		/ /	SEQ-IBL3	DE6001			
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

KEH 5/24/10

Calibration ID: NA Sequence ID: NA Hexane Lot No 7/940

REVIEWED BY: KEH DATE 5/24/10

03/17/10: jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 82/83 File Path: C100528 DATE 5/28/10

GC EXTRACTABLES RUN LOG Amt. Inj. 2 µL (1 µL per column)

LOGBOOK 4 M(4) 38 Method: (8081A) (8081B) 8082 8082A 8151A OLM04.3 OLC03.2 SOM01.2 (Circle one) or Other: _____

☒ Changed septum ☒ Changed liner ☒ Baked column ☒ Trimmed column

	REJECTED	FILE NUMBER	REJECTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1	✓	1		5/28/10	Hexane	M	M	LD	M
2	✓	2		/ /	J	"	J		
3		3	✓	/ /	OE27016-ICV1	PCMSA	6E21052		
4		4	✓	/ /	-CAL1	PAH/DA	0CL6001		
5		5	✓	/ /	2	2	0CL6002		
6		6	✓	/ /	3	3	0E11055		
7		7	✓	/ /	4	4	0CL6004		
8		8	✓	/ /	5	5	0CL6005		
9		9	✓	/ /	-ARC1	TCX/APH/DA	6016008		
10		10	✓	/ /	2	CHLORDDA	0CL6001		
11		11	✓	/ /	-SCV1	PESTICIDA	0E27016		
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

6/1/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: 060101 Sequence ID: OE27016 Hexane Lot No 71940

REVIEWED BY: TMP DATE 6/1/10

Supervisor/Manager Review: _____ pages ____ to ____ Date _____

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 82/83 File Path: Q100528a DATE 5/28/10

GC EXTRACTABLES RUN LOG Amt. Inj. 2 µL (1 µL per column)

LOGBOOK 4 M(4) 38 Method: (8081A) 8081B 8082 8082A 8151A OLM04.3 OLC03.2 SOM01.2 (Circle one) or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1	✓	12		5/28/10	SEQ-16U1	0E07001		LQ	
2		13	✓	/↓/	-CCU1	↓	PIBUCEATED		
3		14	✓	5/29/10	-CCW1	6E11005	(NOUSED		
4		15	✓	/ /	-PEM1	0E21002	PEMED		
5		16	✓	/ /	0552401-BUC1	VBLK			
6		17	✓	/ /	-SS1	↓			
7		18	✓	/ /	-SSD1	↓			
8		19	✓	/ /	10051371-04	10051311			
9		20	✓	/ /	↓-05	↓			
10		21	✓	/ /	10051581-01	10051584			
11		22	✓	/ /	02				
12		23	✓	/ /	03				
13		24	✓	/ /	04				
14		25	✓	/ /	05	↓			
15		26	✓	/ /	SEQ-16U2	0E07001			
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 6/1/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/1/10

7/02/09:jr

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 82/83 File Path: P100528b DATE 5/29/10

GC EXTRACTABLES RUN LOG Amt. Inj. 2 µL (1 µL per column)

LOGBOOK 4 M(4) 38 Method: (8081A 8081B) 8082 8082A 8151A OLM04.3 OLC03.2 SOM01.2 (Circle one) or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		27	-	5/29/10	5E2-CCS2	DE3701	PIBWCECES	LD	
2		28	✓	/ /	-CCV2	05/1005	100136ED		
3		29	✓	/ /	-DBM2	DE 21002	BEMGD		
4		30		/ /	005240S-BLK1	100732			
5		31		/ /	-BS1				
6		32		/ /	-SD1				
7		33		/ /	100732-15				
8		34		/ /	16				
9		35		/ /	17				
10		36		/ /	18				
11		37		/ /	19				
12		38		/ /	20				
13		39		/ /	5E2-1663				
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

6/1/10

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: DEH DATE 6/1/10

7/02/09:jr

4. Raw QC Data

    a. Blank Data

    b. Laboratory Control Sample Data

    c. Matrix Spike Data

    d. Matrix Spike Duplicate Data

a. Blank Data

Arranged by type of blank

i) Method blanks shall be in chronological order, by extraction date.
ii) Instrument blanks shall be in chronological order, by GC column and instrument.
iii) Sulfur cleanup blanks (if needed) shall be in chronological order, by date of analysis.

- Tabulated Results (Form I)
- Chromatograms and date system printout(s) for each GC column and instrument used for analysis.

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKBM

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0051904-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/19/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/19/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zg.b/381g0051904-BLK1.d

Date : 19-MAY-2010 18:44

Client ID: PBLKBM

Instrument: tracegc84.i

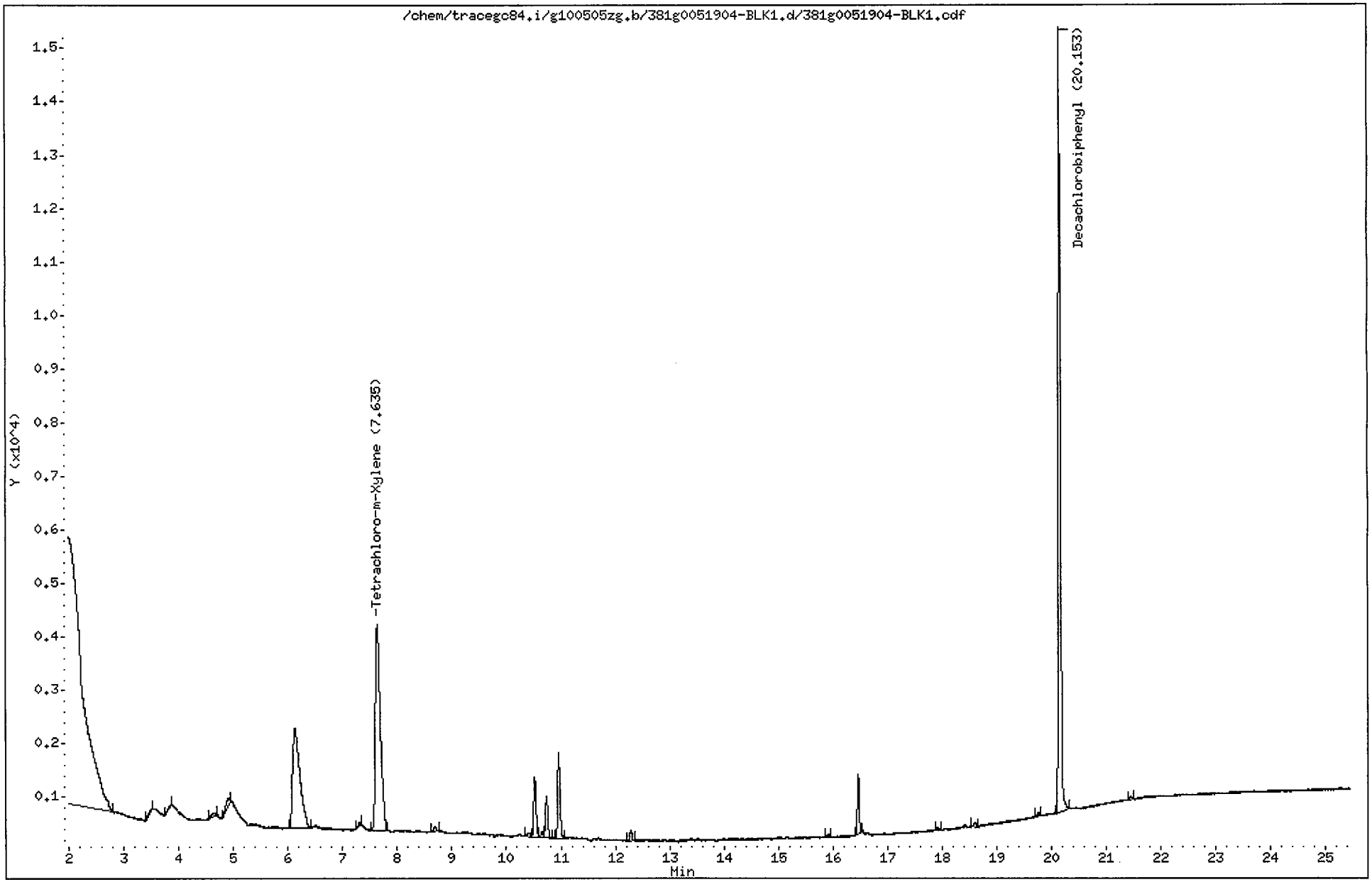
Sample Info: 0051904-BLK1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051904-BLK1 Client Smp Id : PBLKBM
Sample Type : BLANK Sublist : DODPEST
Inj Date : 19-MAY-2010 18:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg.b/8081A_clpestv6.m
Misc. Info : PBLKBM

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

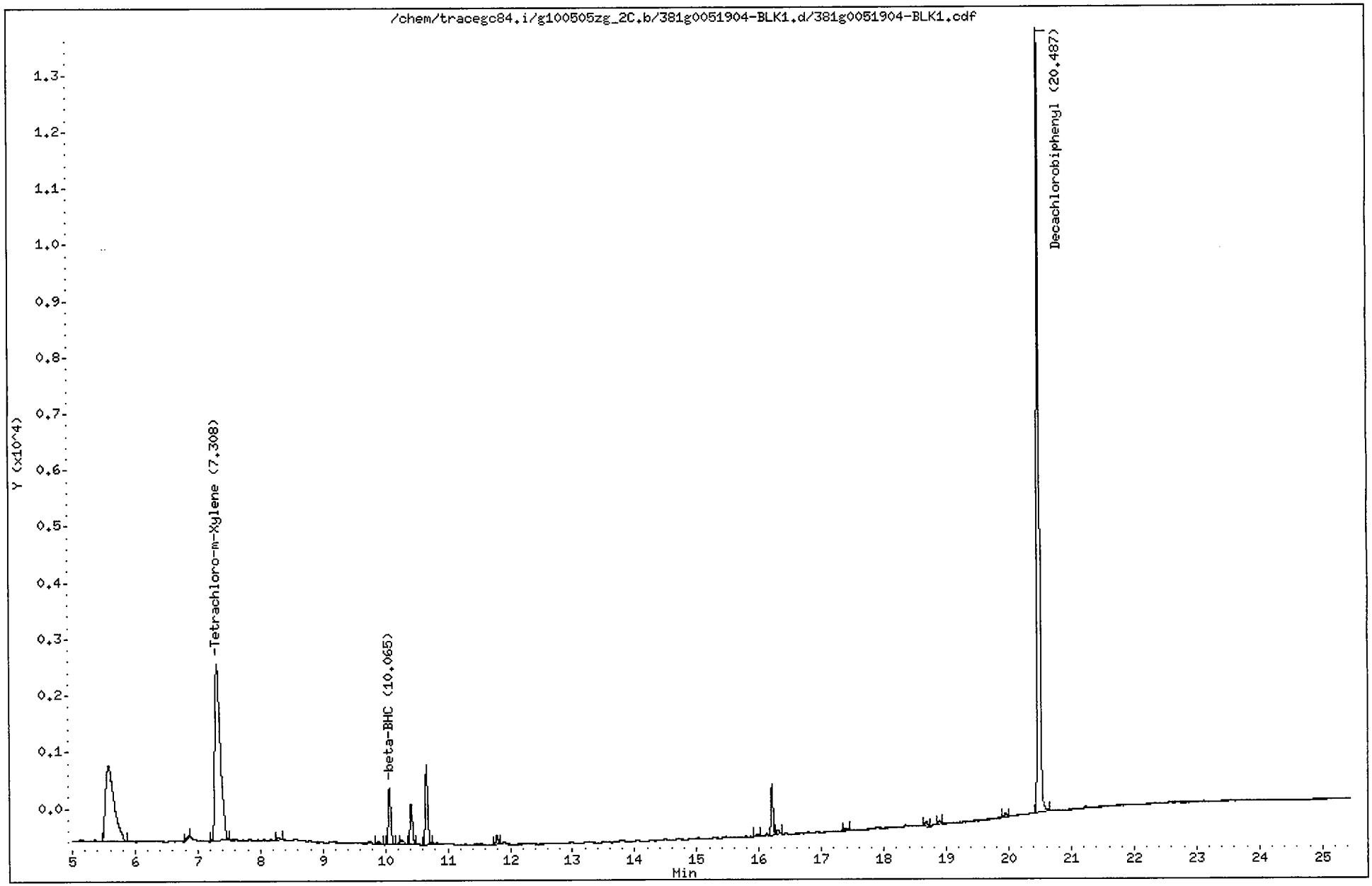
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.06			287								
1.44			208589								
1.99			126405								
3.51			138								
3.86			164								
4.66			322								
4.91			824								
6.13			17144								
7.32			144								
7.64	7.59	7.73	24459	511075	Tetrachloro-m-Xylene	0.047856	0.239280		79.8	25 - 140	
8.68			352								
10.41			278								
10.52			3413								
10.65			325								
10.74			2377								
10.96			4873								
12.29			526								
15.90			143								
16.46			2623								
17.91			146								
18.60			258								
19.76			233								
20.15	20.11	20.25	38823	372435	Decachlorobiphenyl	0.104241	0.521205		86.9	30 - 135	
21.45			195								

5/24/10

Data File: /chem/tracegc84.i/g100505zg_2C.b/381g0051904-BLK1.d
Date : 19-MAY-2010 18:44
Client ID: PBLKBM
Sample Info: 0051904-BLK1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i
Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0051904-BLK1 Client Smp Id : PBLKBM
Sample Type : BLANK Sublist : DODPEST
Inj Date : 19-MAY-2010 18:44 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKBM

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.37			109028								
1.69			25370								
1.73			105902								
2.83			253								
4.53			3481								
5.57			12898								
6.85			119								
7.31	7.29	7.43	19159	407875	Tetrachloro-m-Xylene	0.046970	0.234851		78.3	25 - 140	
8.28			176								
9.88			160								
10.06	10.05	10.19	2844	246982	beta-BHC	0.011511	0.057555	0.050000			
10.26			258								
10.41			1888								
10.66			3711								
11.79			396								
15.97			93								
16.21			1976								
16.30			202								
17.38			134								
18.68			210								
18.88			145								
19.95			202								
20.49	20.48	20.62	35656	358404	Decachlorobiphenyl	0.099486	0.497428		82.9	30 - 135	

KEH 5/24/10

ASSIGNED TO: T. WILLIAMS

EMPLOYEE ID # 1289

COMPUCHEM
EXTRACTION WORKSHEET
PEST/PCB IN WATER BY METHOD 3510C for 8081A, 8081B, 8082, and 8082A

DATE/TIME EXTRACTED/POSTED 5-19-10 @ 1250

5-19-2

BATCH NUMBER 0051904

427

	COMPUCHEM SAMPLE NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE VOLUME (mL)	RECORD INITIAL pH	pH ADJUSTED (Y/N)	FINAL VOL. (mL)	COMMENTS
1	0051904-BLK1	PBLKBM	MB	1000	8.0	N	5.0	
2	0051904-BS1	PBMLCS	LCS	1000	8.0	N	5.0	
3	0051904-BSD1	PBMLCSD	LCSD	1000	8.0	N	5.0	
4	1005131-01	EB051210-SS	SAMPLE	1000	8.0	N	5.0	
5	1005131-02	EB051310-SB	SAMPLE	900	8.0	N	5.0	FLORISIL (3620B) PERFORMED Y (N)
6	1005131-03	BBG-FB051310	SAMPLE	950	8.0	N	5.0	
7								
8								
9								Add 1.0 ml 4615 to PCBLCS & PCBSS
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								

B. Patterson 5-19-10

B. Patterson 5-19-10

B. Patterson 5-19-10

B. Patterson 5-19-10

		AMOUNT	LOT	SURROGATE AND SPIKE ADDED BY:
SURROGATE	449	0.5 mL	0E07004	TTMW 5-19-10
PEST SPIKE	~~4030~~	~~1.0 mL~~	~~TTMW 5-19-10~~	INITIALS DATE
PCB SPIKE	4615	1.0 mL	0C29001	

FINAL VOL. VERIFIED: B. Patterson

SUPERVISOR REVIEW:

Witness AA / 5-19-10
Initial Date

Analysts initials. Extracted TTMW KD TTMW N2 BFP Bottle up BFP

Manufacturer and lot number of reagents/solvents CH_2Cl_2-J17500, Na_2SO_4-2XB-697-3, C_6H_{14}-73003

Rev. 3/16/10:RM

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PBLKBQ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052020-BLK1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zk.b/410g0052020-BLK1.d

Date : 21-MAY-2010 11:42

Client ID: PBLKBQ

Instrument: tracegc84.i

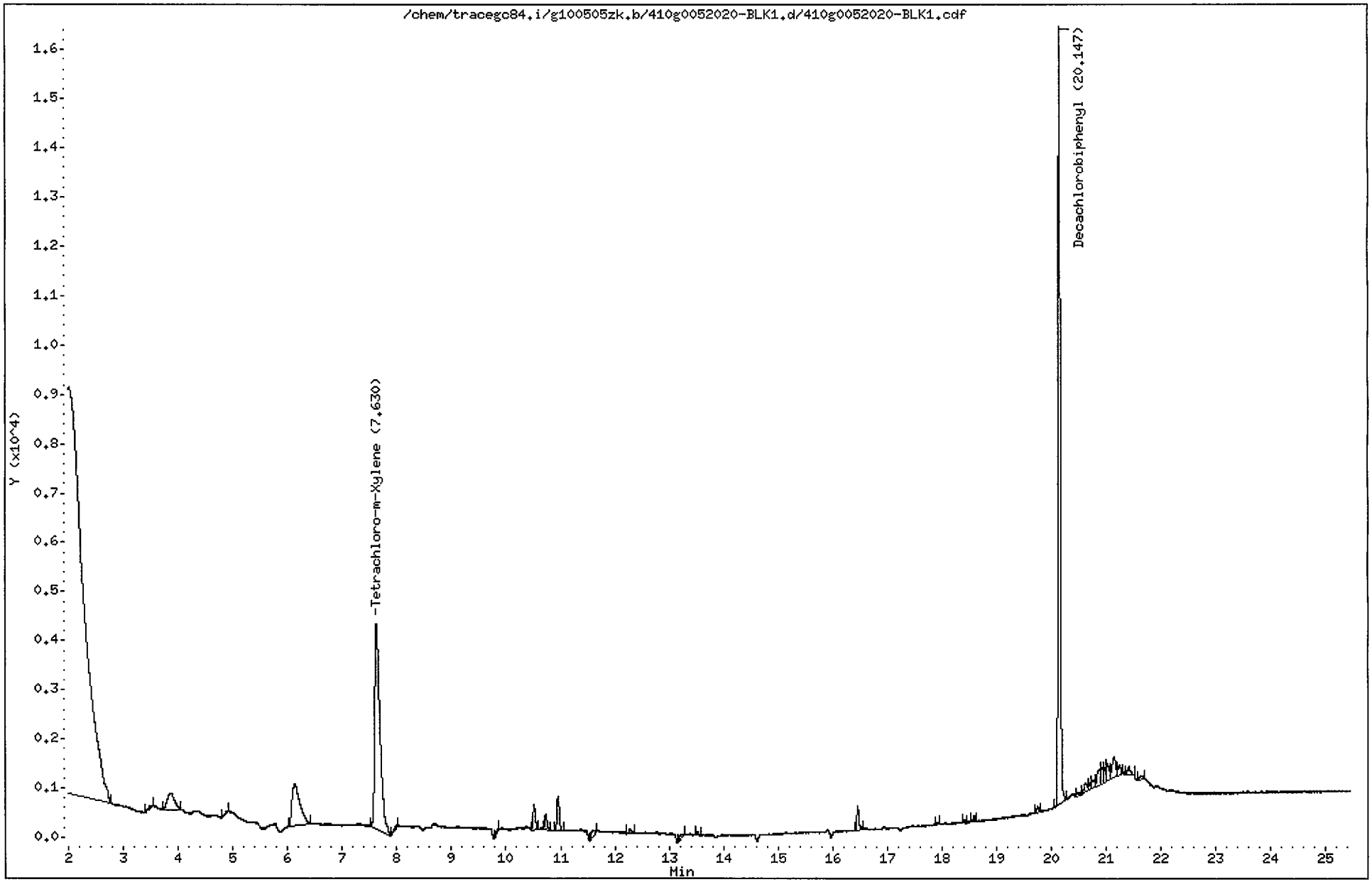
Sample Info: 0052020-BLK1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052020-BLK1 Client Smp Id : PBLKBQ
Sample Type : BLANK Sublist : DODPEST
Inj Date : 21-MAY-2010 11:42 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : PBLKBQ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

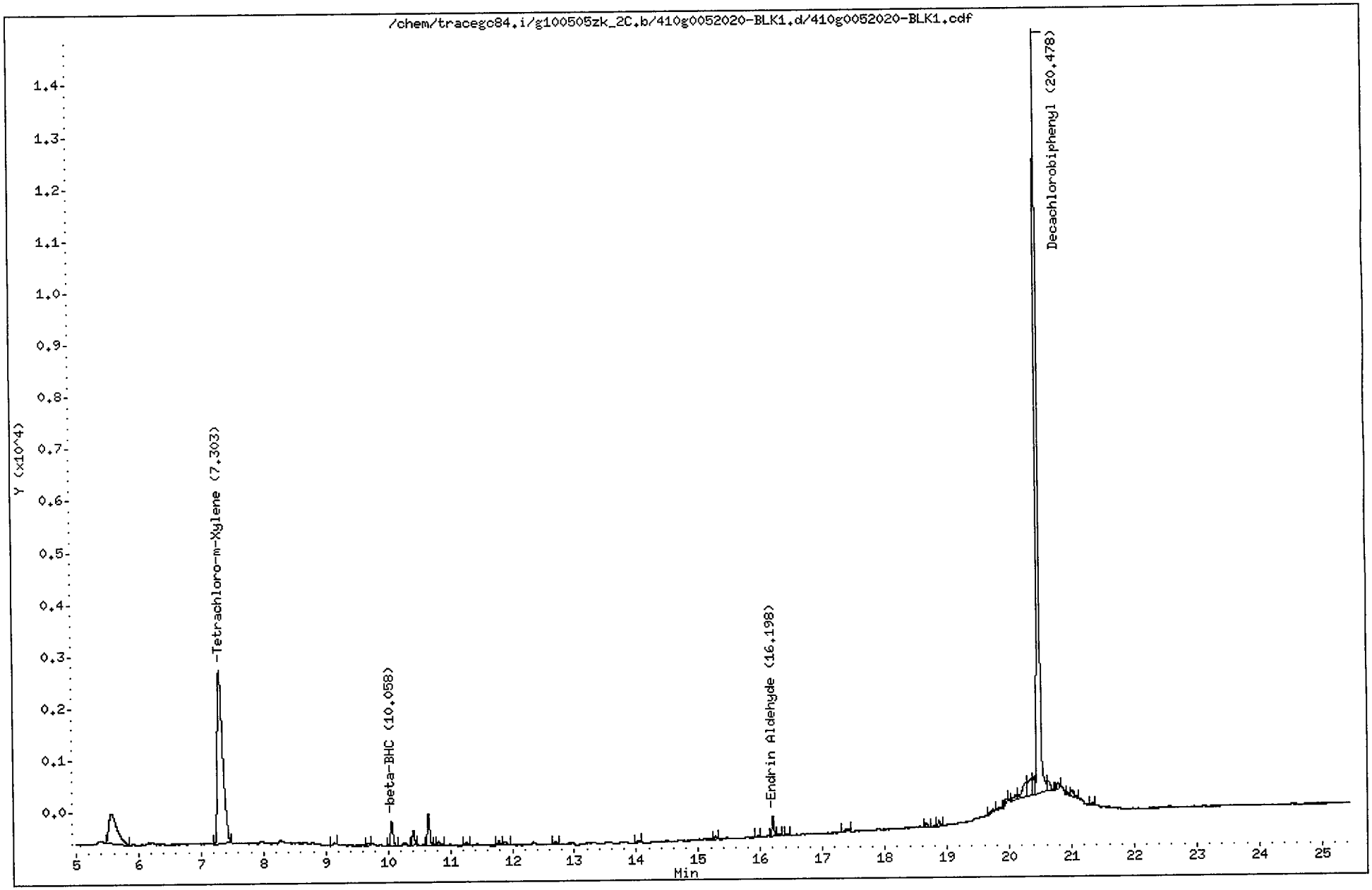
RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.44			82669								
2.02			250728								
3.53			223								
3.86			3046								
4.92			190								
6.13			8569								
7.63	7.56	7.70	27740	511075	Tetrachloro-m-Xylene	0.054276	0.271379		90.5	25 - 140	
8.00			161								
9.85			180								
10.52			1525								
10.73			897								
10.96			2113								
11.60			481								
12.28			267								
13.24			452								
13.52			170								
16.46			1336								
17.92			128								
18.41			162								
18.59			298								
19.75			249								
20.15	20.08	20.22	40371	372435	Decachlorobiphenyl	0.108397	0.541987		90.3	30 - 135	
20.48			177								
20.62			657								
20.71			309								
20.77			628								
20.88			1357								
20.93			976								
20.98			687								
21.03			1236								
21.14			1934								
21.25			669								
21.41			653								
21.62			312								

5/24/10

Data File: /chem/tracegc84.i/g100505zk_2C.b/410g0052020-BLK1.d
Date : 21-MAY-2010 11:42
Client ID: PBLKBQ
Sample Info: 0052020-BLK1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : 0052020-BLK1 Client Smp Id : PBLKBQ
Sample Type : BLANK Sublist : DODPEST
Inj Date : 21-MAY-2010 11:42 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKBQ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.37		14605								
1.76		226095								
3.24		754								
5.57		5367								
7.30	7.24 7.38	20203	407875	Tetrachloro-m-Xylene	0.049530	0.247649		82.5	25 - 140	
9.14		107								
9.68		98								
10.06	10.00 10.14	1311	246982	beta-BHC	0.005308	0.026540	0.050000			J
10.40		764								
10.65		1564								
10.81		185								
11.26		146								
11.78		193								
11.88		204								
12.70		113								
14.03		108								
15.27		144								
15.96		108								
16.20	16.12 16.26	865	284671	Endrin Aldehyde	0.003035	0.015175	0.100000			J
16.30		115								
16.43		101								
17.36		182								
18.67		227								
18.87		227								
19.74		209								
19.84		140								
19.96		124								
20.10		413								
20.26		1432								
20.35		1552								
20.40		844								
20.48	20.41 20.55	38600	358404	Decachlorobiphenyl	0.107700	0.538499		89.7	30 - 135	
20.63		740								
20.79		315								
20.94		116								
21.00		512								
21.33		111								

AHH 5/24/10

ASSIGNED TO: A. Lake

EMPLOYEE ID # 2728

COMPUCHEM
EXTRACTION WORKSHEET
PEST/PCB IN WATER BY METHOD 3510C for 8081A, 8081B, 8082, and 8082A

DATE/TIME EXTRACTED/POSTED 5-20-10 1245

BATCH NUMBER 0052020

5-20-3

433

	COMPUCHEM SAMPLE NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE VOLUME (mL)	RECORD INITIAL pH	pH ADJUSTED? (Y/N)	FINAL VOL. (mL)	COMMENTS
1	0052020-BLK1	PBLKBQ	MB	500	8.0	N	2.5mL	~~USE~~ 50mL for all Samples **
2	0052020-BS1	PBQLCS	LCS	500	8.0	N	2.5mL	
3	0052020-BSD1	PBQLCSD	LCSD	500	8.0	N	2.5mL	VK 5/20/10
4	1005131-01RE1	EB051210-SS	SAMPLE	500	8.0	N	2.5mL	
5	1005131-02RE1	EB051310-SB	SAMPLE	500	8.0	N	2.5mL	FLORISIL (3620B) PERFORMED Y / (N)
6	1005131-03RE1	BBG-FB051310	SAMPLE	500	8.0	N	2.5mL	VK 5/20/10
7								
8								
9								Add 1.0 ml 4615 to PCBLCS & PCBSS
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								

VK 5-20-10

VK 5-20-10

	#	VOL. ADDED	LOT #	SURROGATE AND SPIKE ADDED BY
SURROGATE	449	0.25 0.5 mL	5ml'd OE07004	BFP / 5-20-10
PEST SPIKE	4030	0.5 1.0 mL	OE08140	INITIALS DATE
PCB SPIKE	4615	1.0 mL	N/A	

FINAL VOL. VERIFIED: WG

SUPERVISOR REVIEW: J. M. Willia

Witness AM / 5-20-10
Initial Date

Analysts initials. Extracted AJL KD VK N2 VK Bottle up VK

Number of reagents/solvents CH_2Cl_2 - J17500, Na_2SO_4 - 2XX8-647-3, C_6H_{14} - 73003

Rev. 3/16/10:RM

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PBLKCA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052401-BLK1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.0093	JP
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/e100528a_DOD.b/016e0052401-BLK1.d

Date : 29-MAY-2010 01:03

Client ID: PBLKCA

Instrument: tracegc82.i

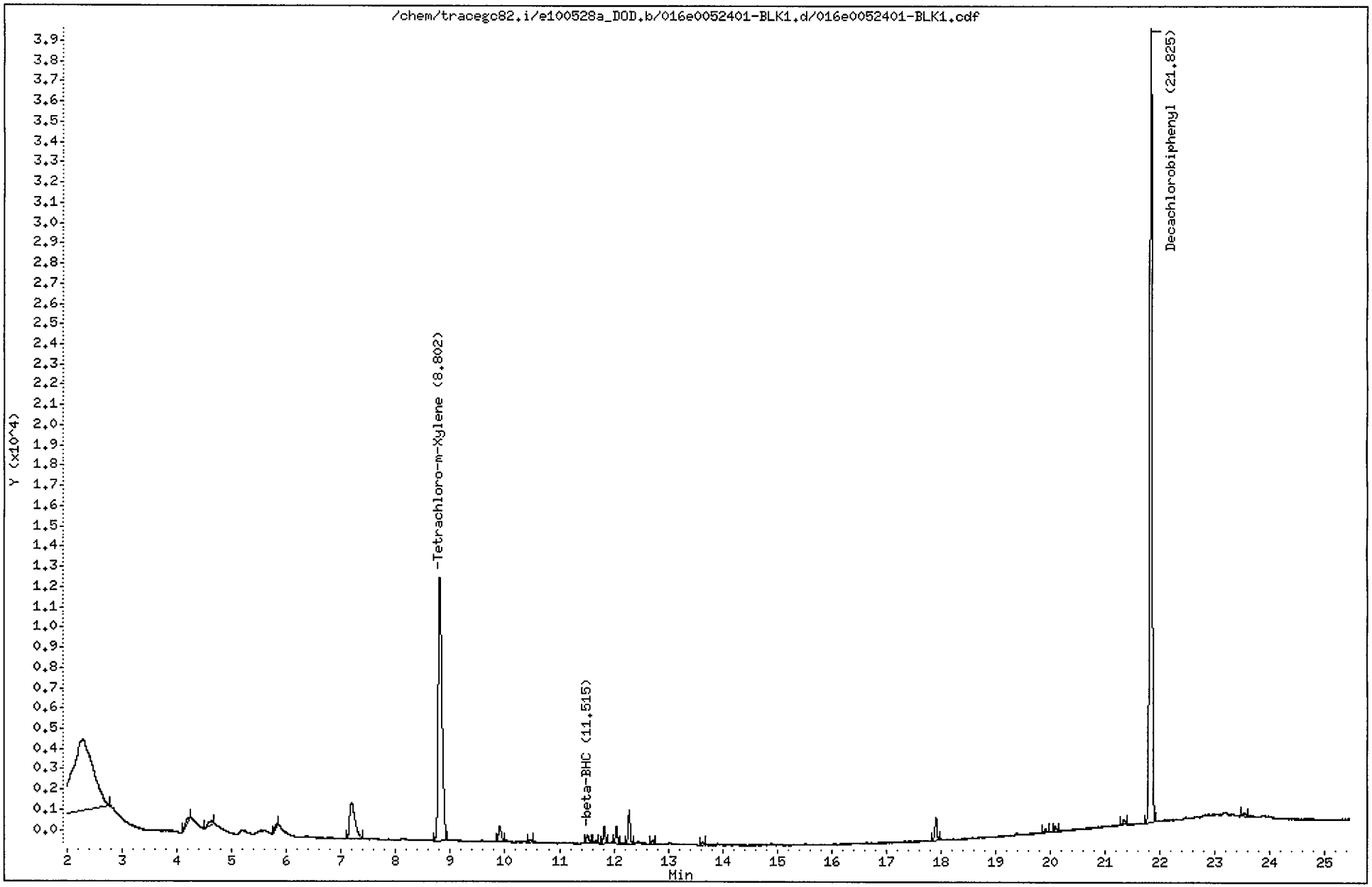
Sample Info: 0052401-BLK1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052401-BLK1 Client Smp Id : PBLKCA
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 01:03 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a.b/8081A_clpestv6.m
Misc. Info : PBLKCA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

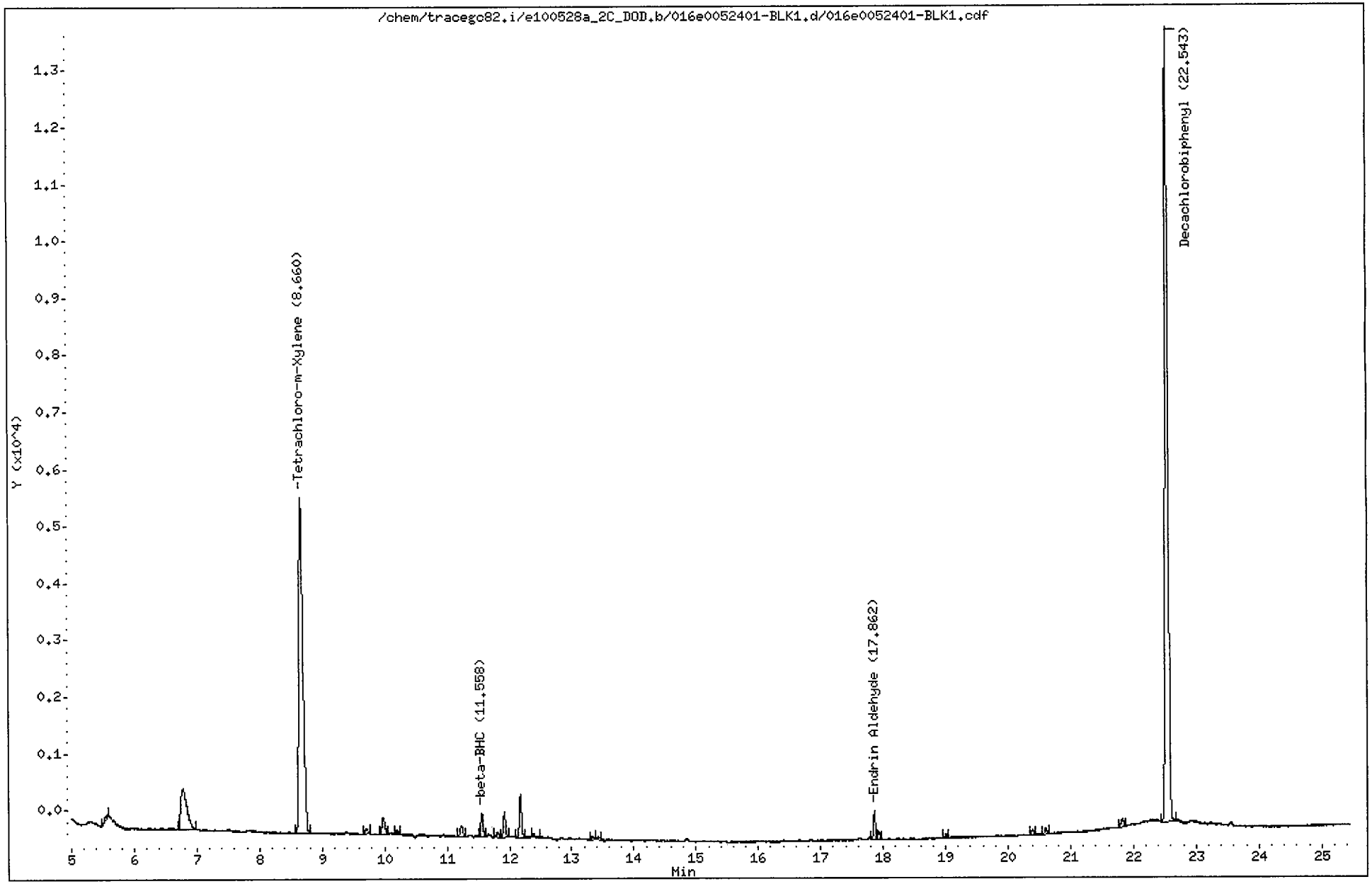
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.04		311								
1.50		132656								
2.29		92119								
4.22		922								
4.64		1241								
5.83		628								
7.19		11976								
8.80	8.73 8.87	61626	1040565	Tetrachloro-m-Xylene	0.059224	0.296118		98.7	25 - 140	
9.90		2826								
10.47		343								
11.52	11.41 11.55	1245	671198	beta-BHC	0.001855	0.009274	0.050000			J
11.67		415								
11.83		2175								
12.05		2090								
12.28		4249								
12.72		503								
13.64		385								
17.91		3107								
19.91		506								
20.09		749								
21.34		765								
21.82	21.75 21.89	121635	1016676	Decachlorobiphenyl	0.119639	0.598194		99.7	30 - 135	
23.52		648								

6/1/10

Data File: /chem/tracegc82.i/e100528a_2C_DOD.b/016e0052401-BLK1.d
Date : 29-MAY-2010 01:03
Client ID: PBLKCA
Sample Info: 0052401-BLK1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc82.i
Operator: BWL
Column diameter: 0.32



CompuChem

Lab Smp Id : 0052401-BLK1 Client Smp Id : PBLKCA
Sample Type : BLANK Sublist : DODPEST
Inj Date : 29-MAY-2010 01:03 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a_2C_DOD.b/8081A_clpest2v6.m
Misc. Info : PBLKCA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.36			241								
1.51			127729								
2.04			53453								
3.53			979								
4.00			234								
4.97			173								
5.57			187								
6.78			5107								
8.66	8.59	8.73	26930	503158	Tetrachloro-m-Xylene	0.053522	0.267610		89.2	25 - 140	
9.71			314								
9.98			989								
10.20			168								
11.22			583								
11.56	11.50	11.64	1001	317558	beta-BHC	0.003149	0.015745	0.050000			J
11.80			239								
11.92			1039								
12.18			1840								
12.39			177								
13.34			154								
13.43			146								
17.86	17.81	17.95	1125	389549	Endrin Aldehyde	0.002888	0.014440	0.100000			J
17.94			299								
19.00			134								
20.39			207								
20.60			282								
21.82			438								
22.54	22.47	22.61	45577	430874	Decachlorobiphenyl	0.105778	0.528890		88.1	30 - 135	

KEH 6/1/10

COMPUCHEM

ASSIGNED TO: Vincent, Martha, Andrea EXTRACTION WORKSHEET DATE/TIME EXTRACTED/POSTED 5-24-10 0955

PEST/PCB IN WATER BY METHOD 3510C for 8081A, 8081B, 8082, and 8082A

EMPLOYEE ID # 274, 2502, 272B 069 5-24-5 BATCH NUMBER D052401

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE VOLUME (ml)	RECORD INITIAL pH	pH ADJUSTED (Y/N)	FINAL VOL (ml)	COMMENTS
1	0052401-BLK1	PBLKCA	MB	1000	8.0	N	5.0	
2	0052401-BS1	PCALCS	LCS	1000	8.0	N	5.0	ML 5-24-10
3	0052401-BSD1	PCALCSD	LCSD	1000	8.0	N	5.0	
4	1005131-04	BBG-FB051810	SAMPLE	925	8.0	N	5.0	
5	1005131-05	EB051810-SS	SAMPLE	5x 400 ml	8.0	N	2.5	FLORISIL (3620B) PERFORMED Y (N)
6	1005158-01	AOC8-MW-35	SAMPLE	1000	7.0	N	5.0	ML 5-24-10
7	1005158-02	AOC8-MW-35D	SAMPLE	1000	8.0	N	5.0	
8	1005158-03	AOC8-MW-36	SAMPLE	1000	8.0	N	5.0	Add 1.0 ml 4615 to PCBLCS & PCBSS
9	1005158-04	ER051910	SAMPLE	950	8.0	N	5.0	
10	1005158-05	AOC8-MW-37	SAMPLE	975	8.0	N	5.0	
11								
12								
13								ML 5-24-10
14			ML 5-24-10					
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								

		AMOUNT	LOT	SURROGATE AND SPIKE ADDED BY
SURROGATE	449	0.5 mL	DE07004	ML / 5-24-10
PEST SPIKE	4030	1.0 mL	OE14001	INITIALS DATE
PCB SPIKE	4615	1.0 mL	n/a	

FINAL VOL. VERIFIED: [signature]

SUPERVISOR REVIEW: B. Patten

Witness AM / 5-24-10
Initial Date

Analysts initials. Extracted ML, VG, AL KD BP N2 BP Bottle up ML

Manufacturer and lot number of reagents/solvents CH_2Cl_2-317501, Na_2SO_4-2XX8650-1, C_6H_{14}-73003

Rev. 3/16/10:RM

439

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKEA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/28/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/e100528a.b/013eSEQ-CCB1.d

Date : 28-MAY-2010 23:36

Client ID: PIBLKEA

Instrument: tracegc82.i

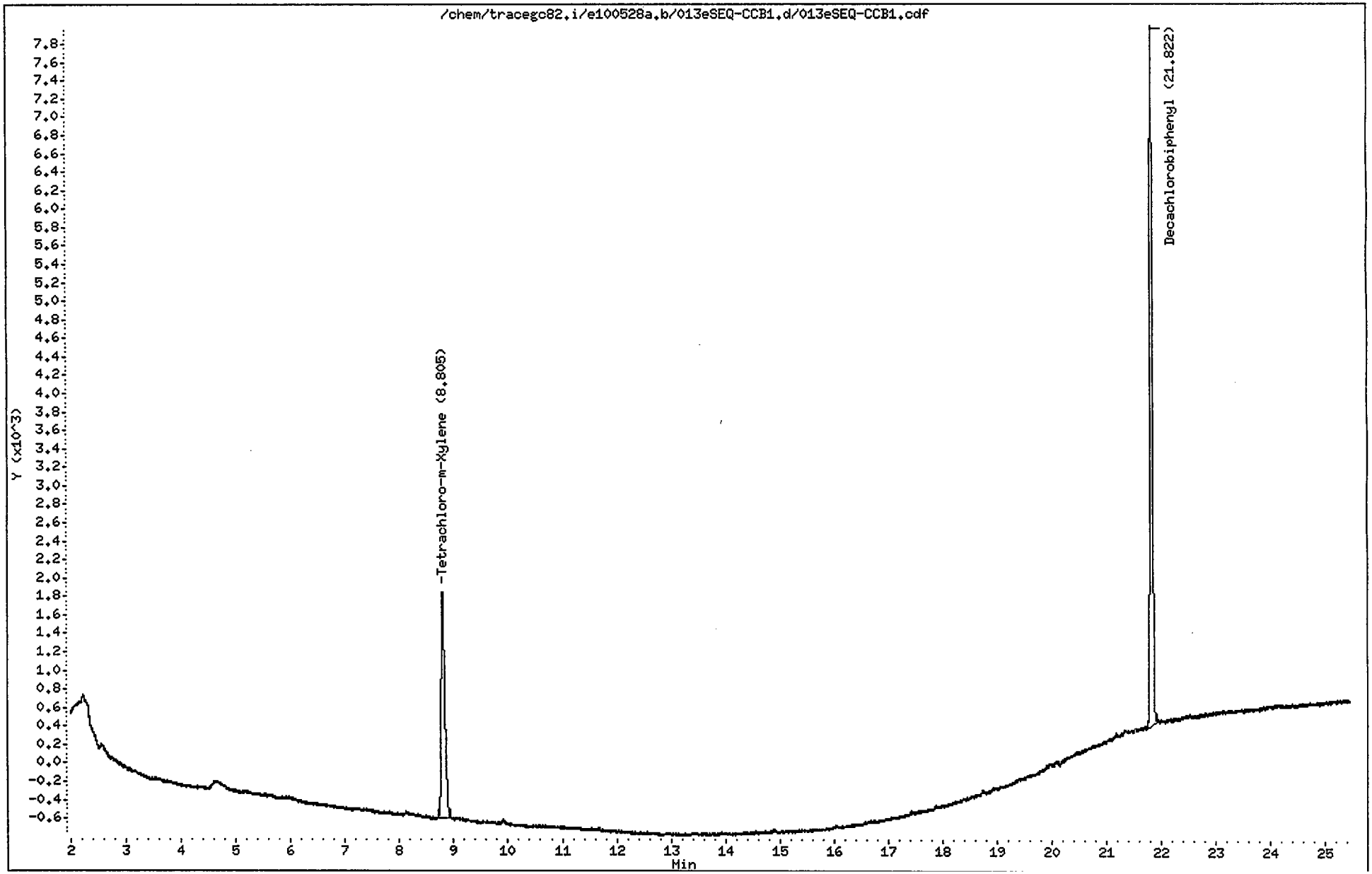
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKEA
Sample Type : INSTBLANK Sublist : all
Inj Date : 28-MAY-2010 23:36 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a.b/8081A_clpestv6.m
Misc. Info : PIBLKEAEB

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.48			11889						
8.80	8.73	8.87	11231	1040565	Tetrachloro-m-Xylene	0.010793	0.053966		
21.82	21.75	21.89	23485	1016676	Decachlorobiphenyl	0.023100	0.115498		

6/1/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKEB

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/28/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/e100528a_2C.b/013eSEQ-CCB1.d

Date : 28-MAY-2010 23:36

Client ID: PIBLKEB

Instrument: tracegc82.i

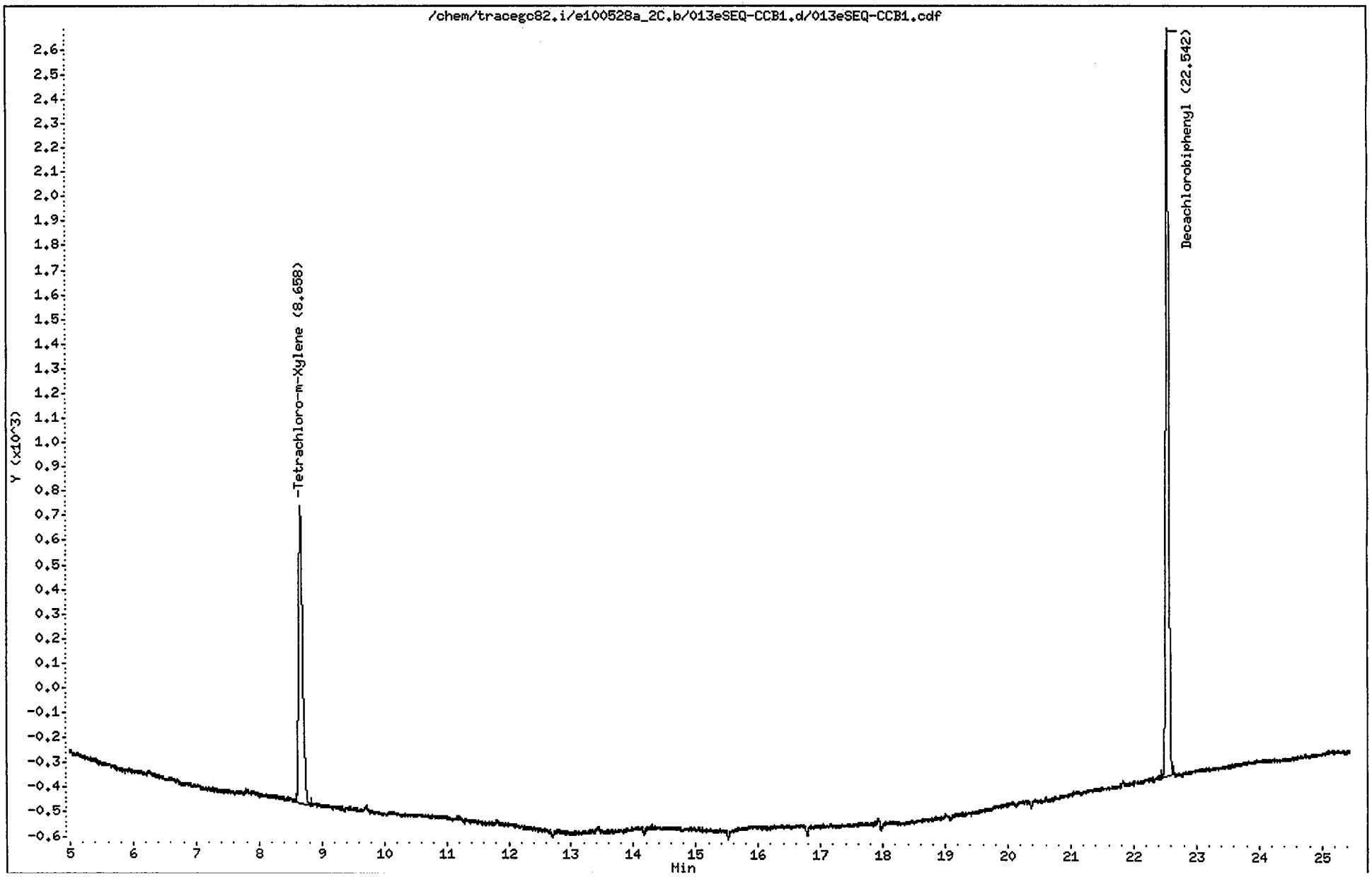
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKEB
Sample Type : INSTBLANK Sublist : all
Inj Date : 28-MAY-2010 23:36 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528a_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKEAEB

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.35			397						
1.49			2496						
2.52			202						
8.66	8.59	8.73	5332	503158	Tetrachloro-m-Xylene	0.010597	0.052983		
22.54	22.47	22.61	9720	430874	Decachlorobiphenyl	0.022560	0.112800		

6/1/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKEC

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/e100528b.b/027eSEQ-CCB2.d

Page 1

Date : 29-MAY-2010 06:23

Client ID: PIBLKEC

Instrument: tracegc82.i

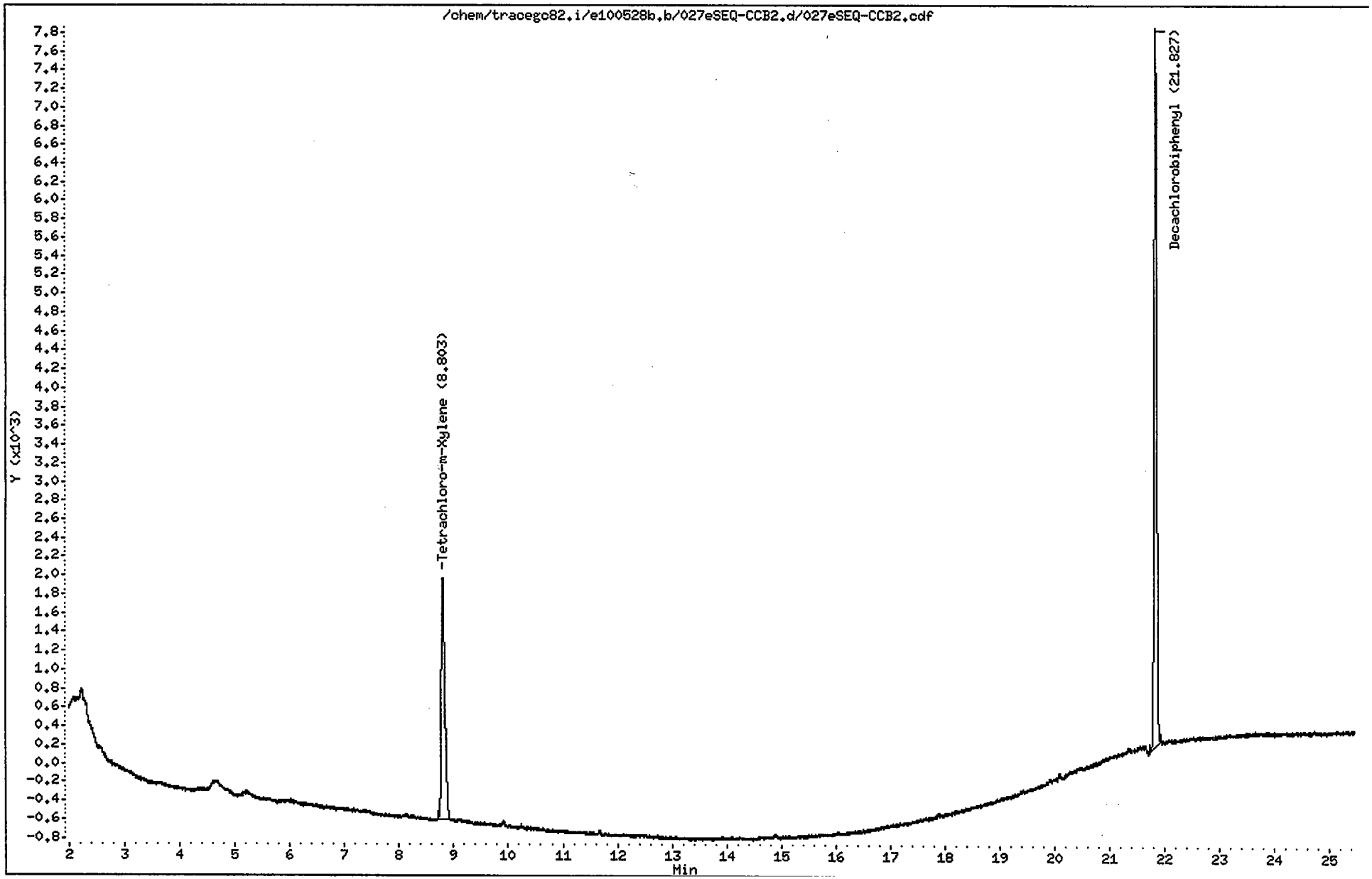
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKEC
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 06:23 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528b.b/8081A_clpestv6.m
Misc. Info : PIBLKECED

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.37			396						
1.48			2534						
8.80	8.73	8.87	11725	1040565	Tetrachloro-m-Xylene	0.011268	0.056338		
21.83	21.75	21.89	24069	1016676	Decachlorobiphenyl	0.023675	0.118373		

6/1/10

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKED

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/e100528b_2C.b/027eSEQ-CCB2.d

Page 1

Date : 29-MAY-2010 06:23

Client ID: PIBLKED

Instrument: tracegc82.i

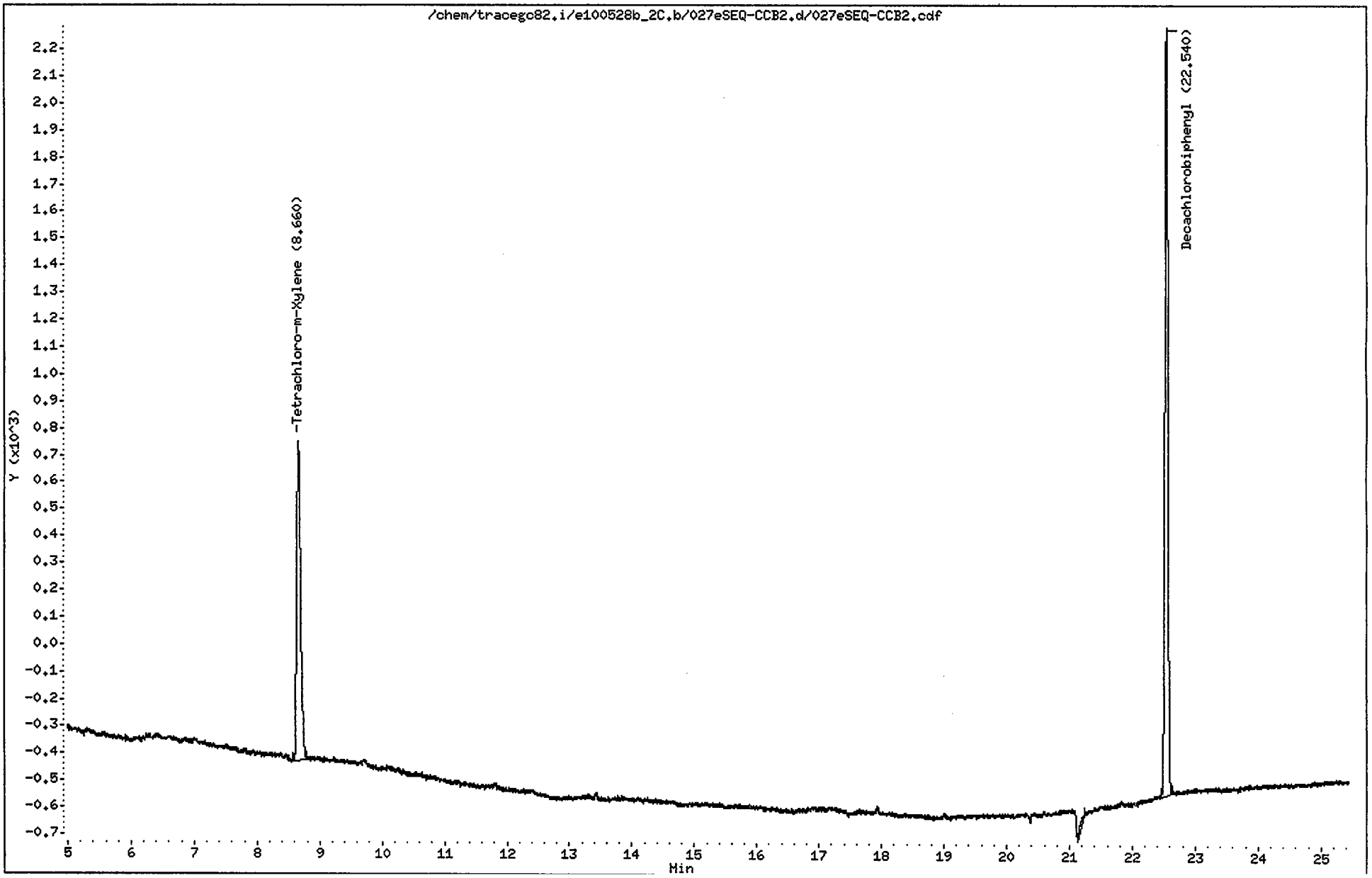
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKED
Sample Type : INSTBLANK Sublist : all
Inj Date : 29-MAY-2010 06:23 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/e100528b_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKECED

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.36			339						
1.50			65148						
2.52			134						
8.66	8.59	8.73	5119	503158	Tetrachloro-m-Xylene	0.010174	0.050872		
21.23			130						
22.54	22.47	22.61	9147	430874	Decachlorobiphenyl	0.021229	0.106143		

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKIQ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/19/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

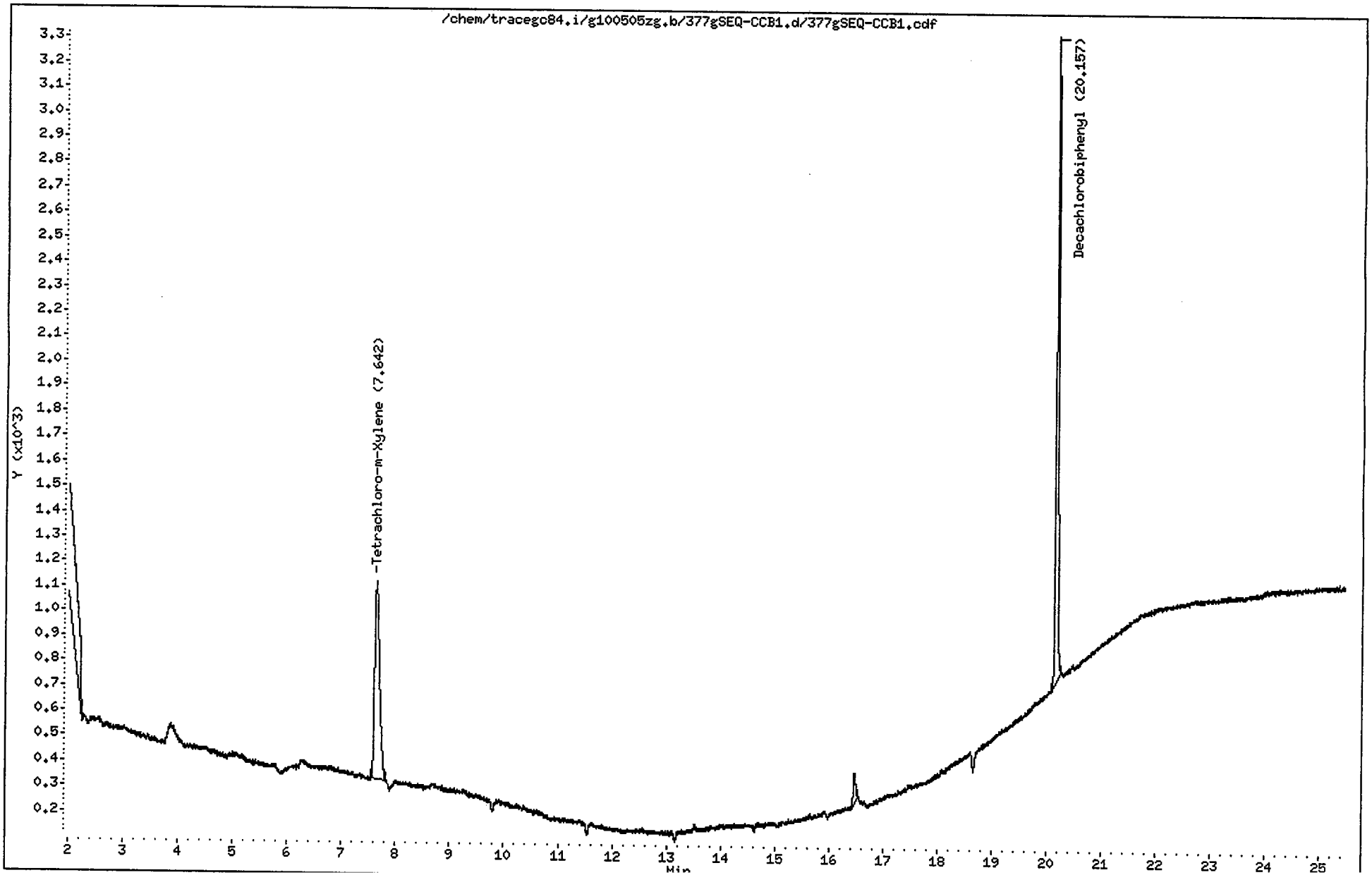
GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zg.b/377gSEQ-CCB1.d
Date : 19-MAY-2010 16:48
Client ID: PIBLKIQ
Sample Info: SEQ-CCB1
Volume Injected (uL): 1.0
Column phase: clpest

Instrument: tracegc84.i

Operator: AHW
Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKIQ
Sample Type : INSTBLANK Sublist : all
Inj Date : 19-MAY-2010 16:48 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg.b/8081A_clpestv6.m
Misc. Info : PIBLKIQIR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.44			71660						
7.64	7.59	7.73	4944	511075	Tetrachloro-m-Xylene	0.009674	0.019347		
16.47			363						
20.16	20.11	20.25	6753	372435	Decachlorobiphenyl	0.018133	0.036265		

AHW
5/24/10

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKIR

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/19/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zg_2C.b/377gSEQ-CCB1.d

Date : 19-MAY-2010 16:48

Client ID: PIBLKIR

Instrument: tracegc84.i

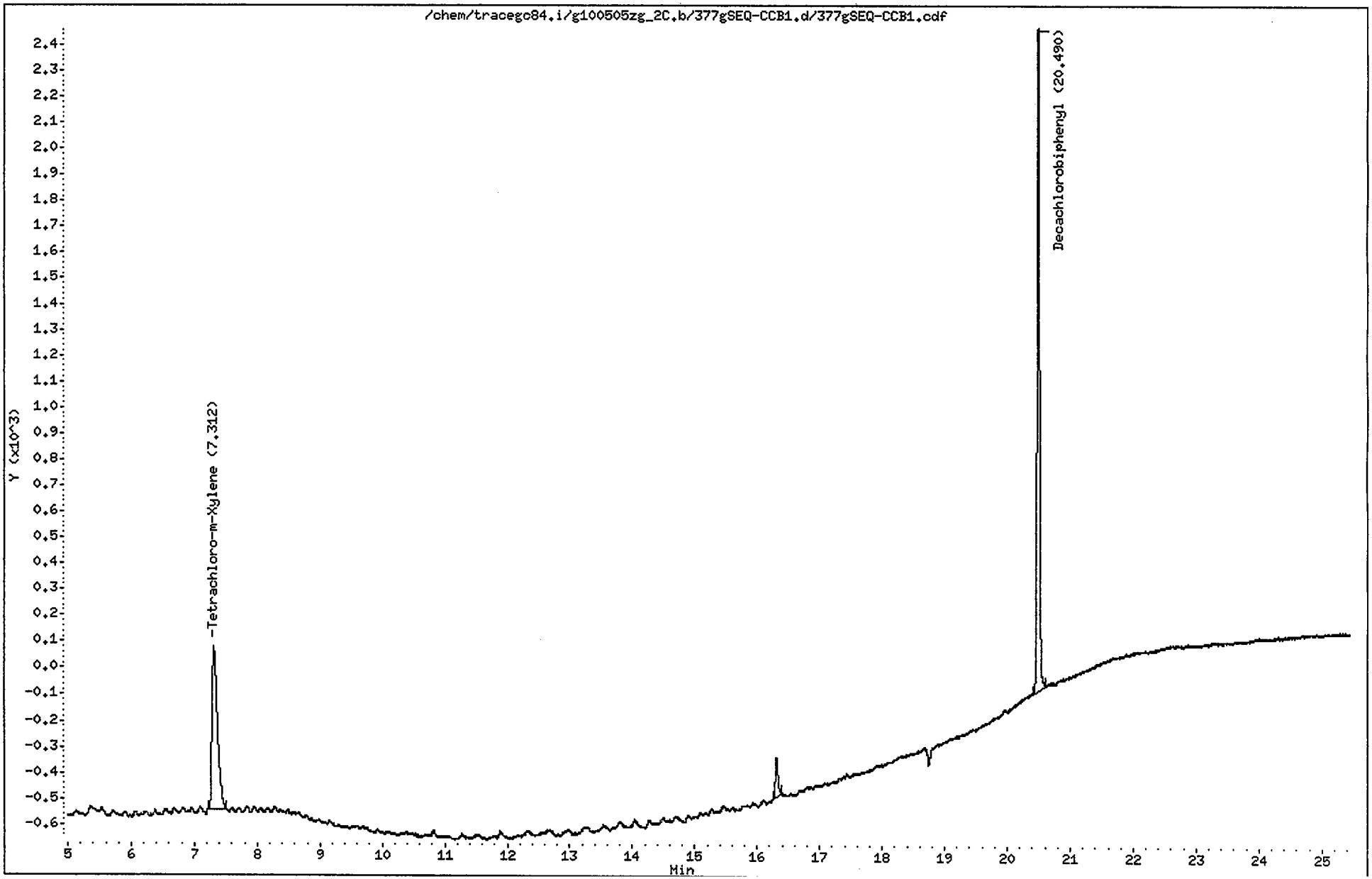
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKIR
Sample Type : INSTBLANK Sublist : all
Inj Date : 19-MAY-2010 16:48 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zg_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKIQIR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.24			116						
1.36			8199						
2.31			129						
7.31	7.29	7.43	3813	407875	Tetrachloro-m-Xylene	0.009349	0.046743		
16.31			425						
20.49	20.48	20.62	6453	358404	Decachlorobiphenyl	0.018005	0.090024		

AHW
5/24/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKIS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/19/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zh.b/388gSEQ-CCB2.d

Date : 19-MAY-2010 22:06

Client ID: PIBLKIS

Instrument: tracegc84.i

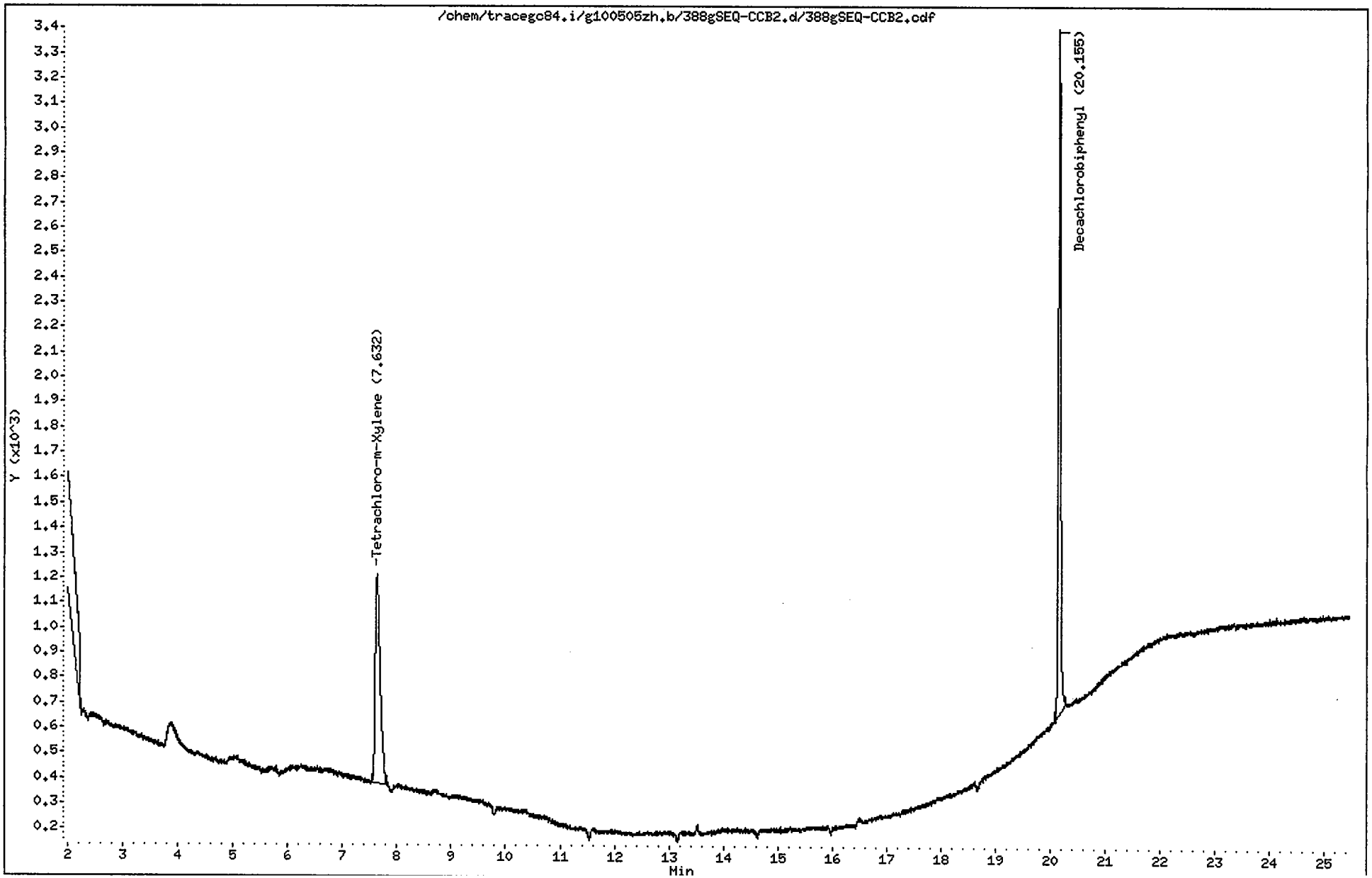
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKIS
Sample Type : INSTBLANK Sublist : all
Inj Date : 19-MAY-2010 22:06 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zh.b/8081A_clpestv6.m
Misc. Info : PIBLKISIT

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.42			74318						
7.63	7.59	7.73	5213	511075	Tetrachloro-m-Xylene	0.010200	0.050998		
20.16	20.11	20.25	7710	372435	Decachlorobiphenyl	0.020701	0.103505		

AHW
5/25/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKIT

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/19/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zh_2C.b/388gSEQ-CCB2.d

Date : 19-MAY-2010 22:06

Client ID: PIBLKIT

Instrument: tracegc84.i

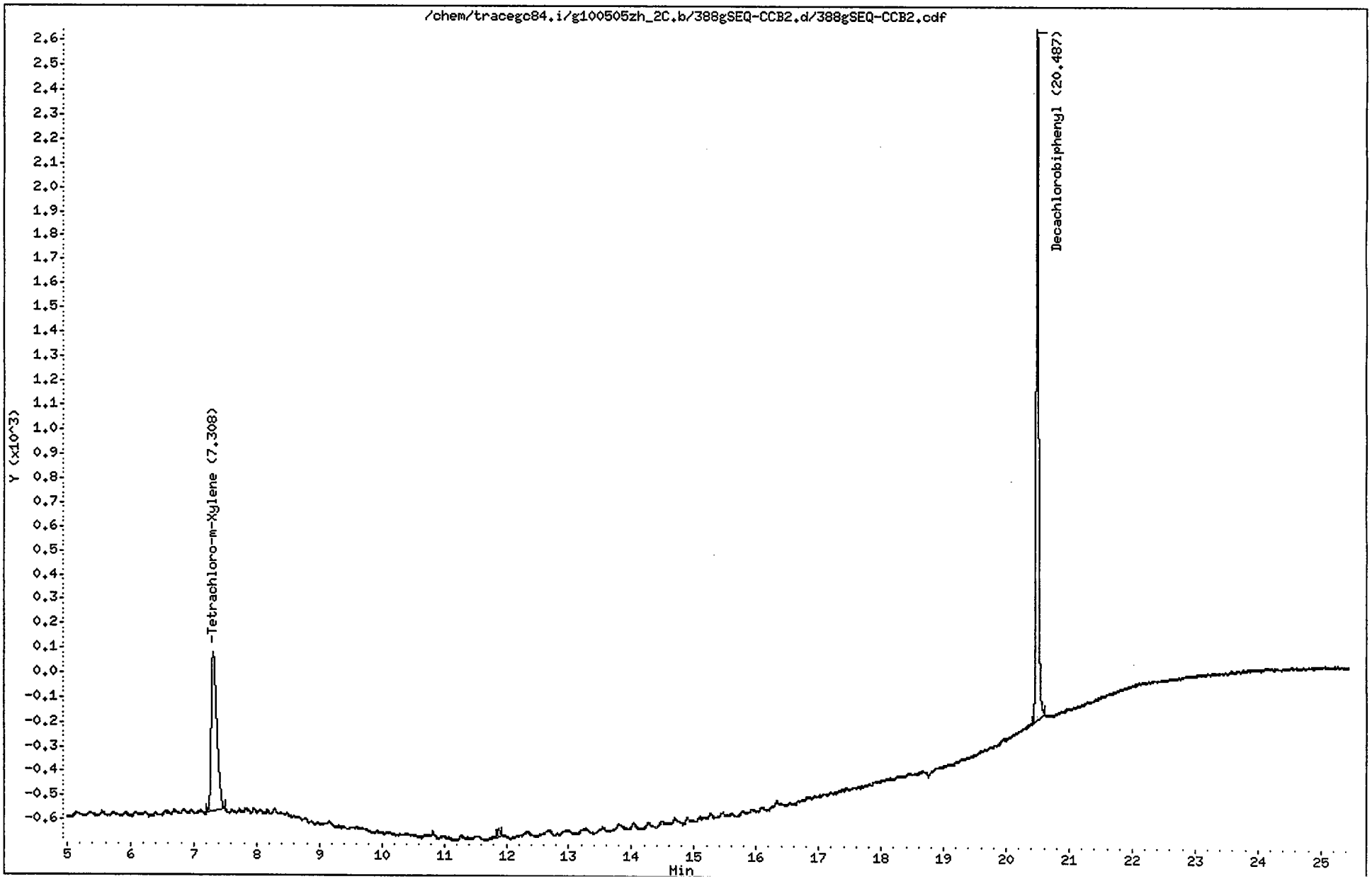
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKIT
Sample Type : INSTBLANK Sublist : all
Inj Date : 19-MAY-2010 22:06 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zh_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKISIT

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.35			7582						
7.31	7.29	7.43	4081	407875	Tetrachloro-m-Xylene	0.010007	0.050034		
11.87			93						
20.49	20.48	20.62	7401	358404	Decachlorobiphenyl	0.020649	0.103243		

AHW
5/25/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKRW

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zk.b/407gSEQ-CCB1.d

Date : 21-MAY-2010 10:15

Client ID: PIBLKRW

Instrument: tracegc84.i

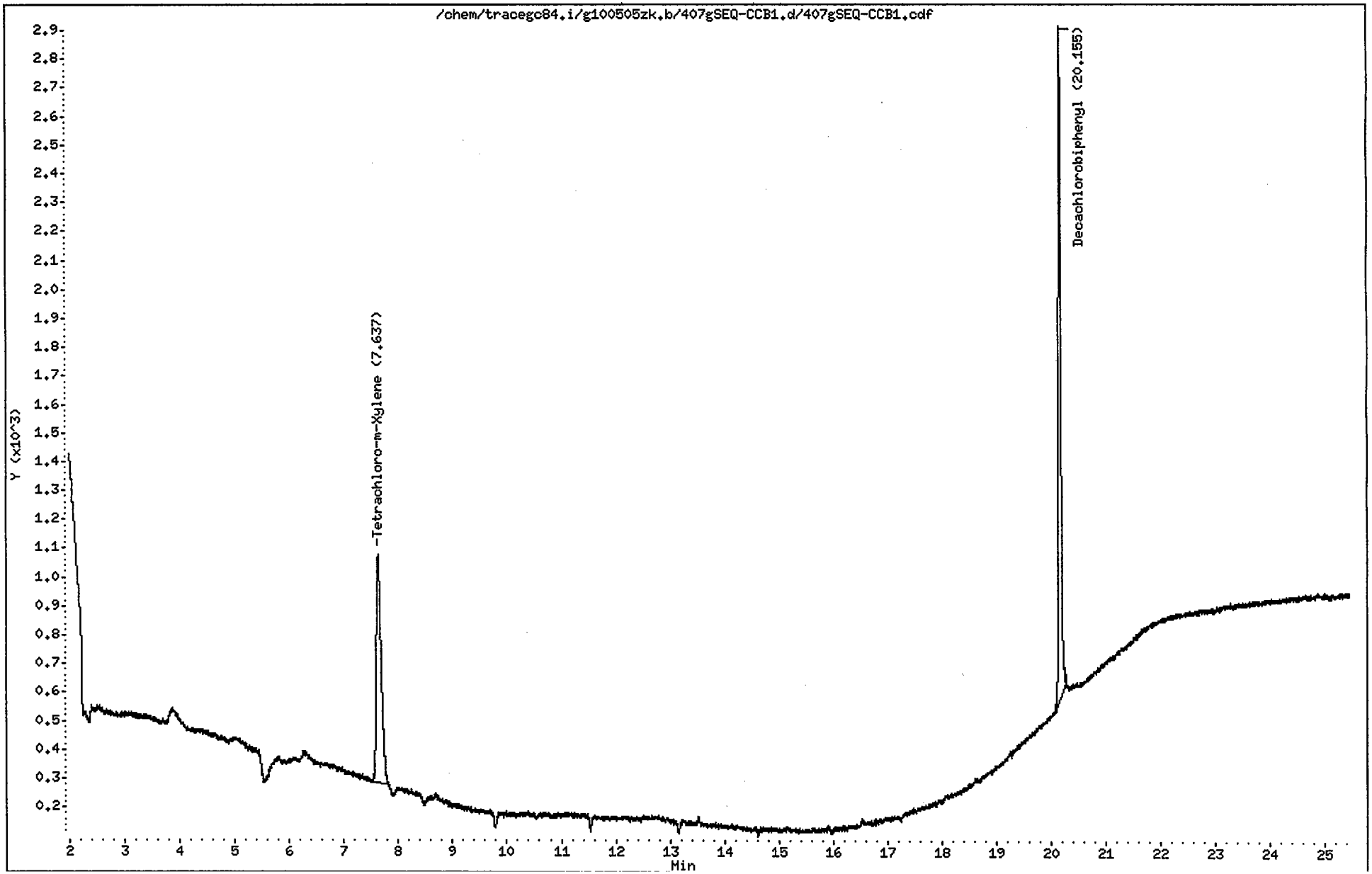
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKRW
Sample Type : INSTBLANK Sublist : all
Inj Date : 21-MAY-2010 10:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : PIBLKRWRX

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.42			4121						
7.64	7.59	7.73	4898	511075	Tetrachloro-m-Xylene	0.009584	0.019169		
20.16	20.11	20.25	6904	372435	Decachlorobiphenyl	0.018537	0.037073		

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKRX

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505zk_2C.b/407gSEQ-CCB1.d

Date : 21-MAY-2010 10:15

Client ID: PIBLKRX

Instrument: tracegc84.i

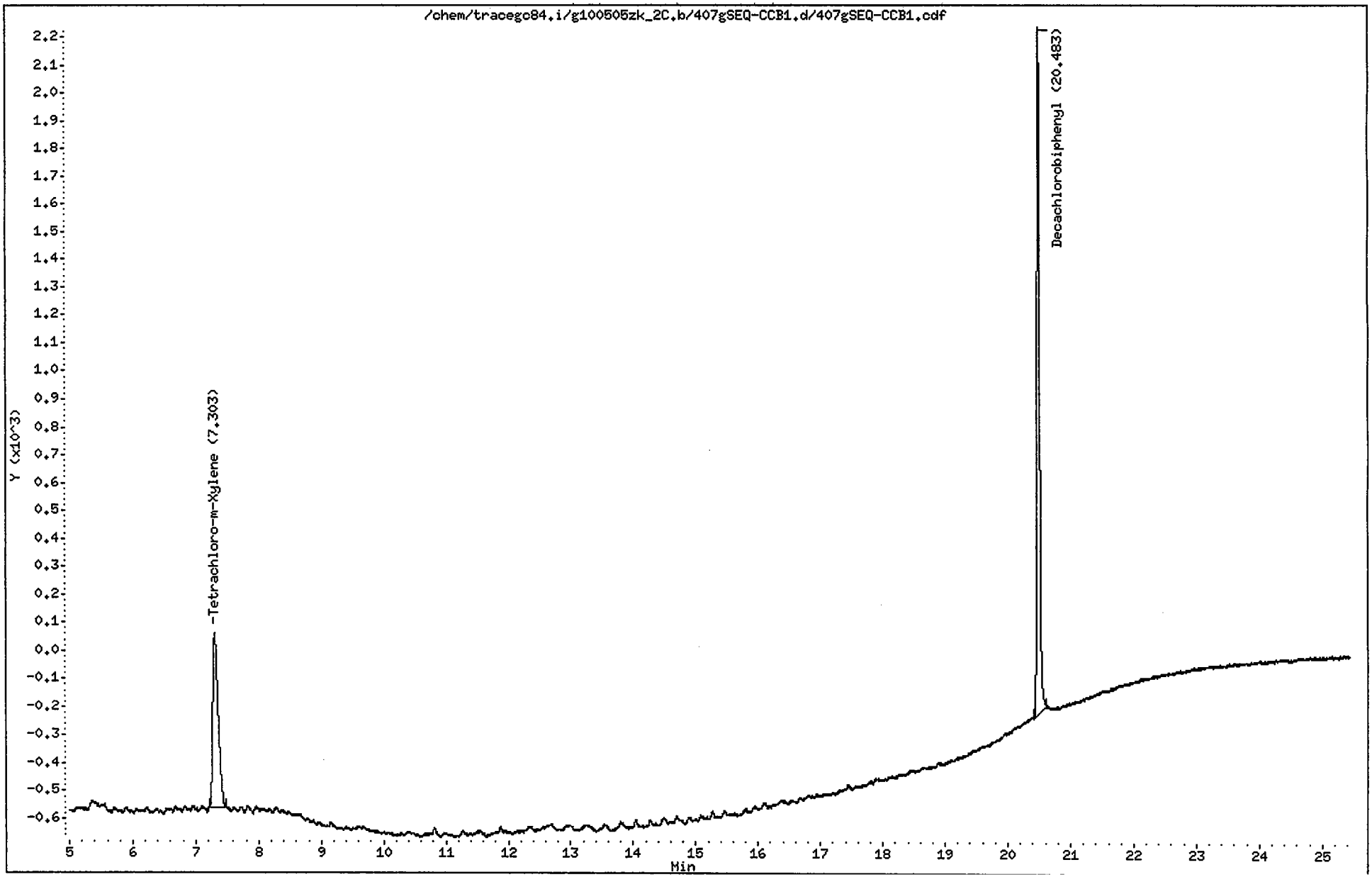
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKRX
Sample Type : INSTBLANK Sublist : all
Inj Date : 21-MAY-2010 10:15 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKRWRX

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.24			112						
1.37			7003						
7.30	7.24	7.38	3793	407875	Tetrachloro-m-Xylene	0.009299	0.046497		
20.48	20.41	20.55	6828	358404	Decachlorobiphenyl	0.019053	0.095263		

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKRY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505z1.b/417gSEQ-CCB2.d

Page 1

Date : 21-MAY-2010 15:04

Client ID: PIBLKRY

Instrument: tracegc84.i

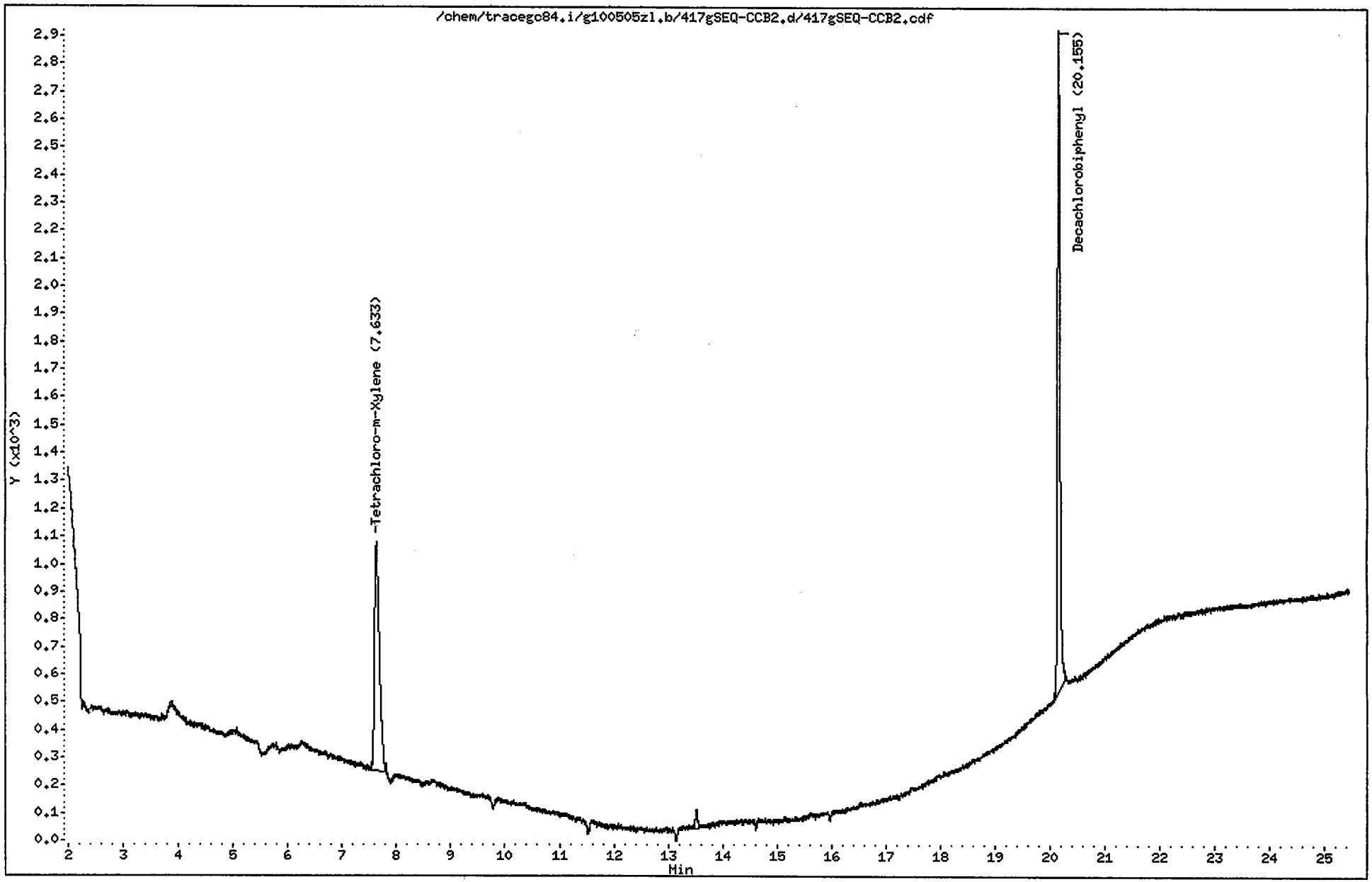
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKRY
Sample Type : INSTBLANK Sublist : all
Inj Date : 21-MAY-2010 15:04 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zl.b/8081A_clpestv6.m
Misc. Info : PIBLKRYRZ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.44			34485						
7.63	7.59	7.73	5138	511075	Tetrachloro-m-Xylene	0.010053	0.000000		
13.52			172						
20.16	20.11	20.25	7244	372435	Decachlorobiphenyl	0.019450	0.000000		

AHW
5/25/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKRZ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc84.i/g100505z1_2C.b/417gSEQ-CCB2.d

Date : 21-MAY-2010 15:04

Client ID: PIBLKRZ

Instrument: tracegc84.i

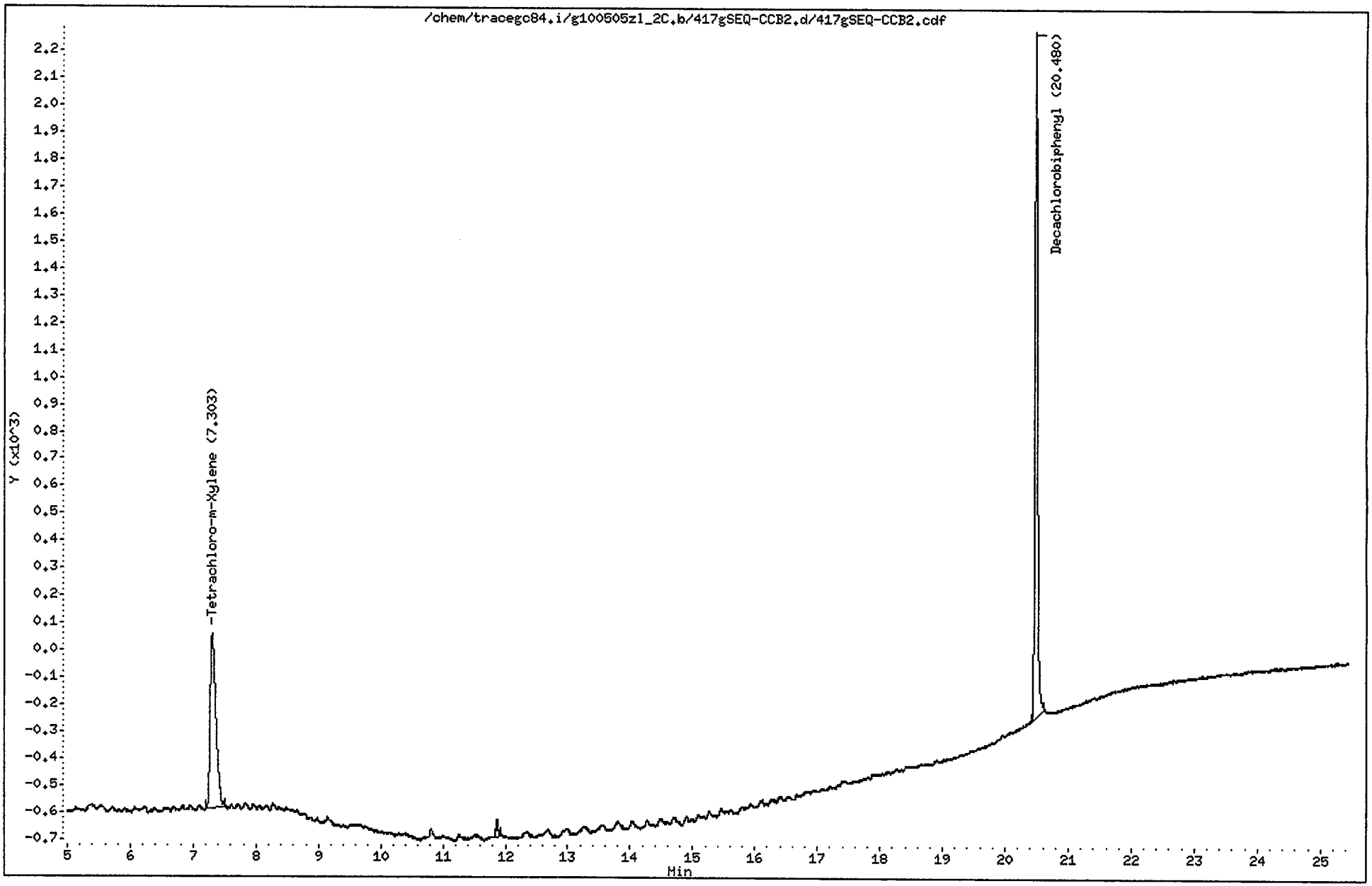
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKRZ
Sample Type : INSTBLANK Sublist : all
Inj Date : 21-MAY-2010 15:04 Inst ID : TRACEGC84
Operator : AHW
Method : /chem/tracegc84.i/g100505zl_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKRYRZ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.37			6938						
7.30	7.24	7.38	4087	407875	Tetrachloro-m-Xylene	0.010021	0.050107		
11.87			148						
20.48	20.41	20.55	7097	358404	Decachlorobiphenyl	0.019801	0.099003		

AHW
5/25/10

b. Laboratory Control Sample Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBQLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052020-BS1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.094	
319-85-7	beta-BHC	0.14	
319-84-6	alpha-BHC	0.14	
319-86-8	delta-BHC	0.15	
58-89-9	gamma-BHC (Lindane)	0.13	
72-54-8	4,4'-DDD	0.36	
72-55-9	4,4'-DDE	0.35	
50-29-3	4,4'-DDT	0.32	
60-57-1	Dieldrin	0.36	
959-98-8	Endosulfan I	0.14	
33213-65-9	Endosulfan II	0.35	
1031-07-8	Endosulfan sulfate	0.33	
72-20-8	Endrin	0.33	
7421-93-4	Endrin Aldehyde	0.20	
76-44-8	Heptachlor	0.14	
1024-57-3	Heptachlor Epoxide	0.16	
72-43-5	Methoxychlor	0.37	J
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.38	
5103-74-2	gamma-Chlordane	0.14	
5103-71-9	alpha-Chlordane	0.16	

Data File: /chem/tracegc84.i/g100505zk.b/411g0052020-BS1.d

Date : 21-MAY-2010 12:11

Client ID: PBQLCS

Instrument: tracegc84.i

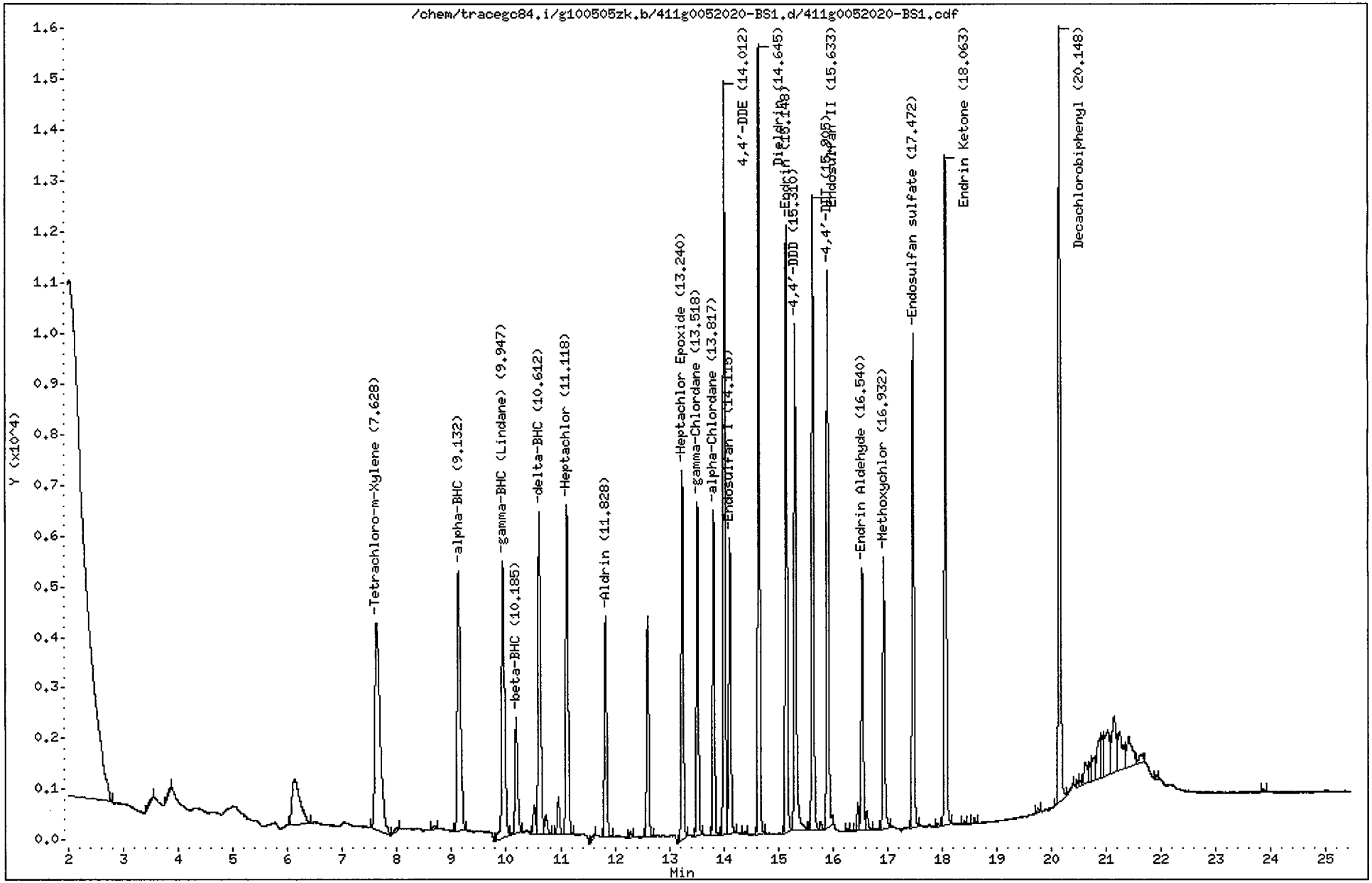
Sample Info: 0052020-BS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052020-BS1 Client Smp Id : PBQLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 21-MAY-2010 12:11 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODWater
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : PBQLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.43			128093								
2.03			315433								
3.53			511								
3.86			449								
6.13			8910								
7.63	7.56	7.70	27025	511075	Tetrachloro-m-Xylene	0.052877	0.264384		88.1	25 - 140	
7.99			344								
8.68			265								
9.13	9.06	9.20	21923	776175	alpha-BHC	0.028244	0.141218	0.050000	94.1	60 - 130	
9.95	9.88	10.02	20960	725352	gamma-BHC (Lindane)	0.028895	0.144475	0.050000	96.3	25 - 135	
10.18	10.11	10.25	8033	291225	beta-BHC	0.027580	0.137900	0.050000	91.9	65 - 125	
10.52			1602								
10.61	10.54	10.68	20459	670705	delta-BHC	0.030502	0.152511	0.050000	101.7	45 - 135	
10.73			1341								
10.96			2151								
11.12	11.05	11.19	19765	686315	Heptachlor	0.028799	0.143994	0.050000	96.0	40 - 130	
11.61			353								
11.83	11.76	11.90	12211	627382	Aldrin	0.019462	0.097309	0.050000	64.9	25 - 140	
12.28			310								
12.60			11554								
13.24	13.17	13.31	18834	585410	Heptachlor Epoxide	0.032172	0.160862	0.050000	107.2	60 - 130	
13.52	13.45	13.59	16186	579092	gamma-Chlordane	0.027949	0.139745	0.050000	93.2	60 - 125	
13.82	13.75	13.89	15778	502118	alpha-Chlordane	0.031421	0.157105	0.050000	104.7	65 - 125	
14.01	13.94	14.08	36027	515756	4,4'-DDE	0.069851	0.349254	0.100000	93.1	35 - 140	
14.12	14.05	14.19	15096	536925	Endosulfan I	0.028116	0.140578	0.050000	93.7	50 - 110	
14.38			148								
14.64	14.57	14.71	37107	512808	Dieldrin	0.072360	0.361802	0.100000	96.5	60 - 130	
15.15	15.08	15.22	29782	445172	Endrin	0.066898	0.334488	0.100000	89.2	55 - 135	
15.31	15.24	15.38	27219	381109	4,4'-DDD	0.071418	0.357090	0.100000	95.2	25 - 150	
15.63	15.56	15.70	30899	440985	Endosulfan II	0.070066	0.350329	0.100000	93.4	30 - 130	
15.78			351								
15.90	15.83	15.97	27445	433059	4,4'-DDT	0.063375	0.316874	0.100000	84.5	45 - 140	
16.28			145								
16.46			1335								
16.54	16.47	16.61	13228	325624	Endrin Aldehyde	0.040624	0.203118	0.100000	54.2*	55 - 135	R
16.63			1058								
16.93	16.87	17.01	14069	188501	Methoxychlor	0.074631	0.373154	0.500000	99.5	55 - 150	J

KEH 5/24/10

CompuChem

Lab Smp Id : 0052020-BS1 Client Smp Id : PBQLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 21-MAY-2010 12:11 Inst ID :
Operator : AHW Spike Sublist : DODWater
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : PBQLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
17.47	17.40 17.54	24426	370954	Endosulfan sulfate	0.065844	0.329219	0.100000	87.8	55 - 135	
17.91		190								
18.06	17.99 18.13	33546	439015	Endrin Ketone	0.076410	0.382048	0.100000	101.9	75 - 125	
18.41		171								
18.59		265								
19.76		236								
20.15	20.08 20.22	38936	372435	Decachlorobiphenyl	0.104544	0.522722		87.1	30 - 135	
20.39		221								
20.48		239								
20.52		237								
20.61		1817								
20.70		947								
20.78		2149								
20.88		3912								
20.93		2416								
21.02		5684								
21.14		6193								
21.24		4800								
21.41		4344								
21.63		946								
21.92		169								
23.86		176								

Data File: /chem/tracegc84.i/g100505zk_2C.b/411g0052020-BS1.d

Date : 21-MAY-2010 12:11

Client ID: PBQLCS

Instrument: tracegc84.i

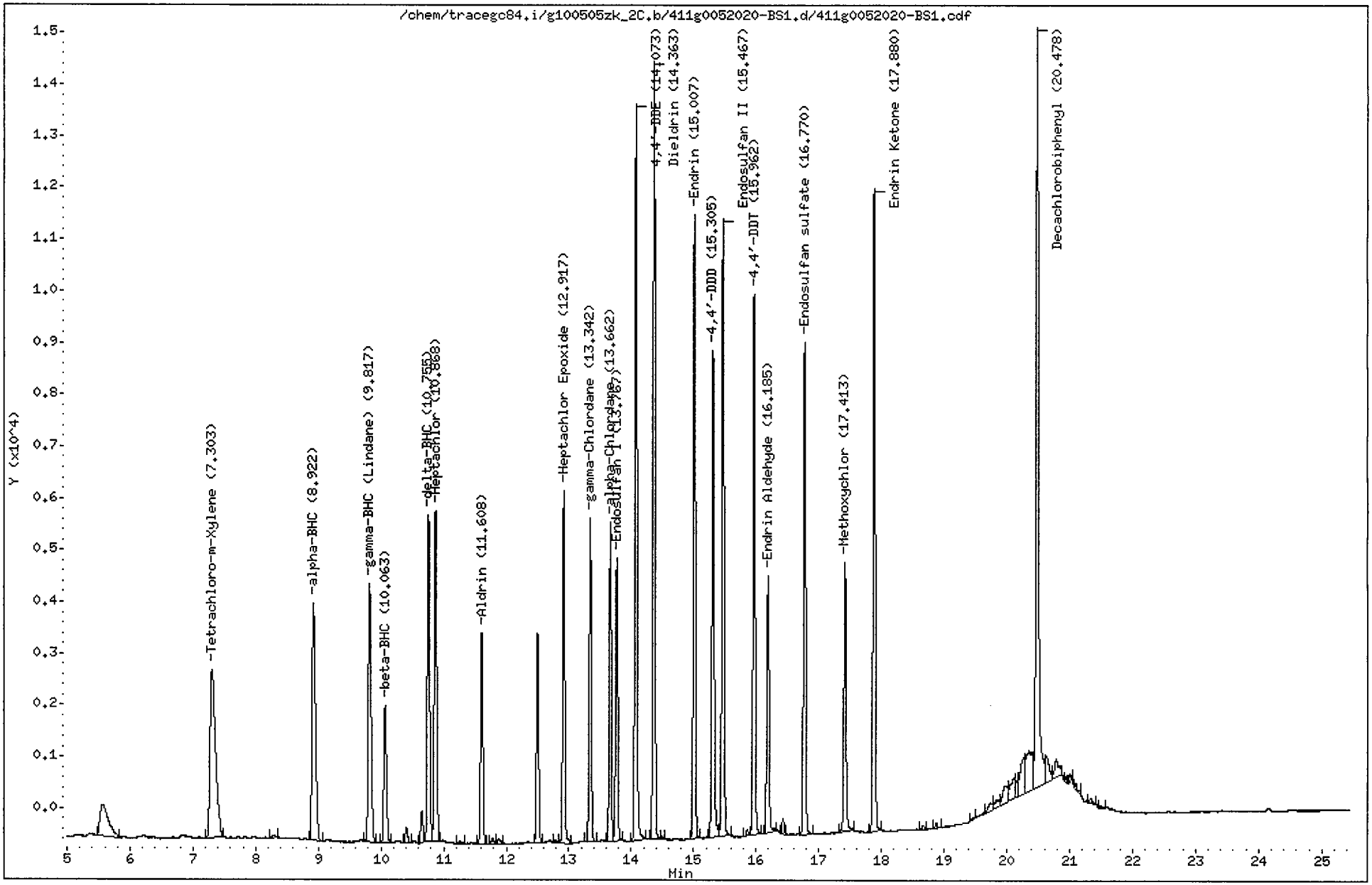
Sample Info: 0052020-BS1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052020-BS1 Client Smp Id : PBQLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 21-MAY-2010 12:11 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODWater
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : PBQLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.38			56455								
1.77			279822								
2.82			532								
3.23			526								
4.02			132								
5.57			5855								
7.30	7.24	7.38	20109	407875	Tetrachloro-m-Xylene	0.049299	0.246497		82.2	25 - 140	
8.28			171								
8.92	8.85	8.99	17130	597775	alpha-BHC	0.028655	0.143273	0.050000	95.5	60 - 130	
9.82	9.75	9.89	15384	579612	gamma-BHC (Lindane)	0.026542	0.132709	0.050000	88.5	25 - 135	
10.06	10.00	10.14	7720	246982	beta-BHC	0.031257	0.156286	0.050000	104.2	65 - 125	
10.40			778								
10.65			1516								
10.76	10.69	10.83	16244	527058	delta-BHC	0.030818	0.154091	0.050000	102.7	45 - 135	
10.87	10.80	10.94	17164	568222	Heptachlor	0.030205	0.151024	0.050000	100.7	40 - 130	
11.26			122								
11.61	11.54	11.68	10115	535118	Aldrin	0.018902	0.094512	0.050000	63.0	25 - 140	
11.78			237								
11.87			280								
12.50			9665								
12.79			124								
12.92	12.85	12.99	16028	501448	Heptachlor Epoxide	0.031961	0.159807	0.050000	106.5	60 - 130	
13.34	13.27	13.41	14267	501695	gamma-Chlordane	0.028438	0.142188	0.050000	94.8	60 - 125	
13.66	13.59	13.73	13813	433530	alpha-Chlordane	0.031859	0.159297	0.050000	106.2	65 - 125	
13.77	13.70	13.84	12564	463952	Endosulfan I	0.027080	0.135402	0.050000	90.3	50 - 110	
14.07	14.01	14.15	31798	453016	4,4'-DDE	0.070192	0.350959	0.100000	93.6	35 - 140	
14.36	14.29	14.43	34211	448611	Dieldrin	0.076260	0.381299	0.100000	101.7	60 - 130	
14.49			125								
15.01	14.94	15.08	27219	402899	Endrin	0.067558	0.337790	0.100000	90.1	55 - 135	
15.30	15.24	15.38	22963	318030	4,4'-DDD	0.072201	0.361004	0.100000	96.3	25 - 150	
15.47	15.40	15.54	27763	385788	Endosulfan II	0.071964	0.359822	0.100000	96.0	30 - 130	
15.86			313								
15.96	15.89	16.03	23987	365509	4,4'-DDT	0.065626	0.328132	0.100000	87.5	45 - 140	
16.18	16.12	16.26	12281	284671	Endrin Aldehyde	0.043137	0.215687	0.100000	57.5	55 - 135	
16.43			671								
16.77	16.70	16.84	22439	337218	Endosulfan sulfate	0.066539	0.332693	0.100000	88.7	55 - 135	
17.41	17.35	17.49	12620	167230	Methoxychlor	0.075459	0.377295	0.500000	100.6	55 - 150	J

CompuChem

Lab Smp Id : 0052020-BS1 Client Smp Id : PBQLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 21-MAY-2010 12:11 Inst ID :
Operator : AHW Spike Sublist : DODWater
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : PBQLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
17.88	17.81 17.95	29834	383354	Endrin Ketone	0.077824	0.389118	0.100000	103.8	75 - 125	
18.67		202								
18.88		251								
19.48		142								
19.65		113								
19.73		609								
19.86		813								
19.98		1968								
20.11		2219								
20.17		541								
20.26		3701								
20.35		5848								
20.48	20.41 20.55	40410	358404	Decachlorobiphenyl	0.112747	0.563736		94.0	30 - 135	
20.63		2171								
20.79		1680								
20.94		183								
21.00		296								
21.10		305								
21.33		320								
21.50		125								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBQLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052020-BSD1

Sample wt/vol: 500.0 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/20/10

Concentrated Extract Volume: 2500(uL) Date Analyzed: 05/21/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.12	
319-85-7	beta-BHC	0.16	
319-84-6	alpha-BHC	0.16	
319-86-8	delta-BHC	0.17	
58-89-9	gamma-BHC (Lindane)	0.15	
72-54-8	4,4'-DDD	0.40	
72-55-9	4,4'-DDE	0.39	
50-29-3	4,4'-DDT	0.36	
60-57-1	Dieldrin	0.40	
959-98-8	Endosulfan I	0.15	
33213-65-9	Endosulfan II	0.39	
1031-07-8	Endosulfan sulfate	0.37	
72-20-8	Endrin	0.39	
7421-93-4	Endrin Aldehyde	0.23	
76-44-8	Heptachlor	0.16	
1024-57-3	Heptachlor Epoxide	0.18	
72-43-5	Methoxychlor	0.42	J
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.42	
5103-74-2	gamma-Chlordane	0.16	
5103-71-9	alpha-Chlordane	0.17	

Data File: /chem/tracegc84.i/g100505zk.b/412g0052020-BSD1.d

Date : 21-MAY-2010 12:40

Client ID: PBQLCSD

Instrument: tracegc84.i

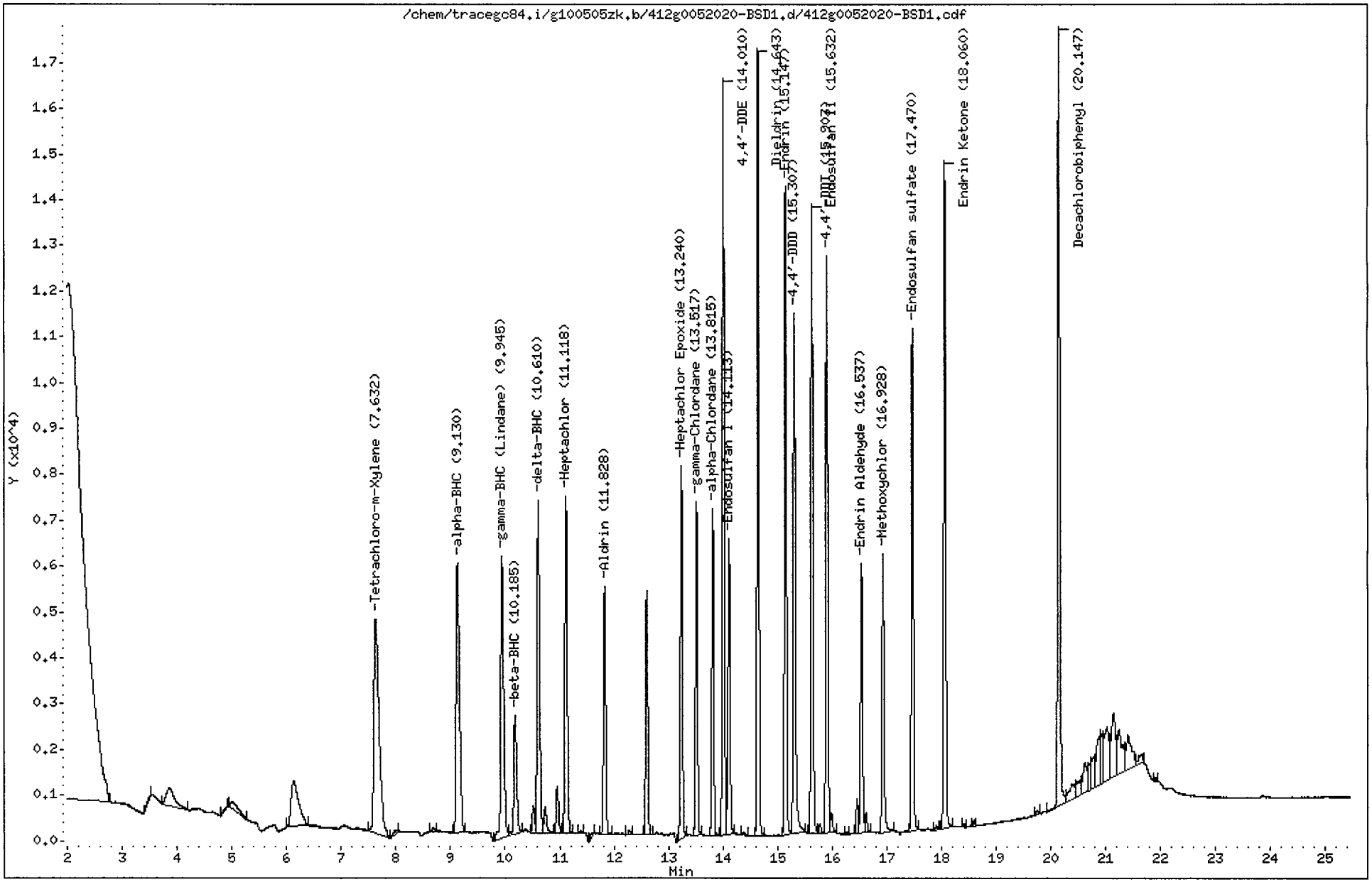
Sample Info: 0052020-BSD1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052020-BSD1 Client Smp Id : PBQLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 21-MAY-2010 12:40 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODWater
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : PBQLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.44			120970								
2.03			345988								
3.52			408								
3.87			4358								
4.91			179								
5.01			1650								
6.13			9517								
7.63	7.56	7.70	31188	511075	Tetrachloro-m-Xylene	0.061024	0.305122		101.7	25 - 140	
8.01			388								
8.67			296								
9.13	9.06	9.20	24770	776175	alpha-BHC	0.031913	0.159565	0.050000	106.4	60 - 130	
9.94	9.88	10.02	23601	725352	gamma-BHC (Lindane)	0.032537	0.162686	0.050000	108.5	25 - 135	
10.18	10.11	10.25	9259	291225	beta-BHC	0.031793	0.158966	0.050000	106.0	65 - 125	
10.52			1727								
10.61	10.54	10.68	23194	670705	delta-BHC	0.034582	0.172908	0.050000	115.3	45 - 135	
10.73			1863								
10.96			3051								
11.12	11.05	11.19	22376	686315	Heptachlor	0.032603	0.163016	0.050000	108.7	40 - 130	
11.39			142								
11.61			302								
11.83	11.76	11.90	15048	627382	Aldrin	0.023984	0.119919	0.050000	79.9	25 - 140	
12.28			305								
12.60			14230								
13.24	13.17	13.31	20948	585410	Heptachlor Epoxide	0.035782	0.178909	0.050000	119.3	60 - 130	
13.52	13.45	13.59	18050	579092	gamma-Chlordane	0.031168	0.155839	0.050000	103.9	60 - 125	
13.82	13.75	13.89	17493	502118	alpha-Chlordane	0.034838	0.174192	0.050000	116.1	65 - 125	
14.01	13.94	14.08	40333	515756	4,4'-DDE	0.078202	0.391008	0.100000	104.3	35 - 140	
14.11	14.05	14.19	16708	536925	Endosulfan I	0.031118	0.155590	0.050000	103.7	50 - 110	
14.38			208								
14.64	14.57	14.71	41255	512808	Dieldrin	0.080449	0.402246	0.100000	107.3	60 - 130	
15.15	15.08	15.22	34727	445172	Endrin	0.078008	0.390040	0.100000	104.0	55 - 135	
15.31	15.24	15.38	30400	381109	4,4'-DDD	0.079765	0.398823	0.100000	106.4	25 - 150	
15.63	15.56	15.70	34689	440985	Endosulfan II	0.078663	0.393313	0.100000	104.9	30 - 130	
15.78			507								
15.90	15.83	15.97	30772	433059	4,4'-DDT	0.071055	0.355275	0.100000	94.7	45 - 140	
15.99			1115								
16.27			143								

5/24/10

CompuChem

Lab Smp Id : 0052020-BSD1 Client Smp Id : PBQLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 21-MAY-2010 12:40 Inst ID :
Operator : AHW Spike Sublist : DODWater
Method : /chem/tracegc84.i/g100505zk.b/8081A_clpestv6.m
Misc. Info : PBQLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
16.46		1788								
16.54	16.47 16.61	14918	325624	Endrin Aldehyde	0.045811	0.229053	0.100000	61.1	55 - 135	
16.62		1114								
16.93	16.87 17.01	15998	188501	Methoxychlor	0.084869	0.424347	0.500000	113.2	55 - 150	J
17.47	17.40 17.54	27498	370954	Endosulfan sulfate	0.074125	0.370626	0.100000	98.8	55 - 135	
17.91		228								
18.06	17.99 18.13	37060	439015	Endrin Ketone	0.084416	0.422081	0.100000	112.6	75 - 125	
18.41		176								
18.59		307								
19.75		233								
20.15	20.08 20.22	43949	372435	Decachlorobiphenyl	0.118004	0.590022		98.3	30 - 135	
20.39		2414								
20.48		1752								
20.62		3310								
20.70		1728								
20.78		3197								
20.88		5119								
20.92		3284								
21.02		7738								
21.14		7545								
21.24		6236								
21.40		5253								
21.62		924								
21.92		221								

Data File: /chem/tracegc84.i/g100505zk_2C.b/412g0052020-BSD1.d

Page 1

Date : 21-MAY-2010 12:40

Client ID: PBQLCSD

Instrument: tracegc84.i

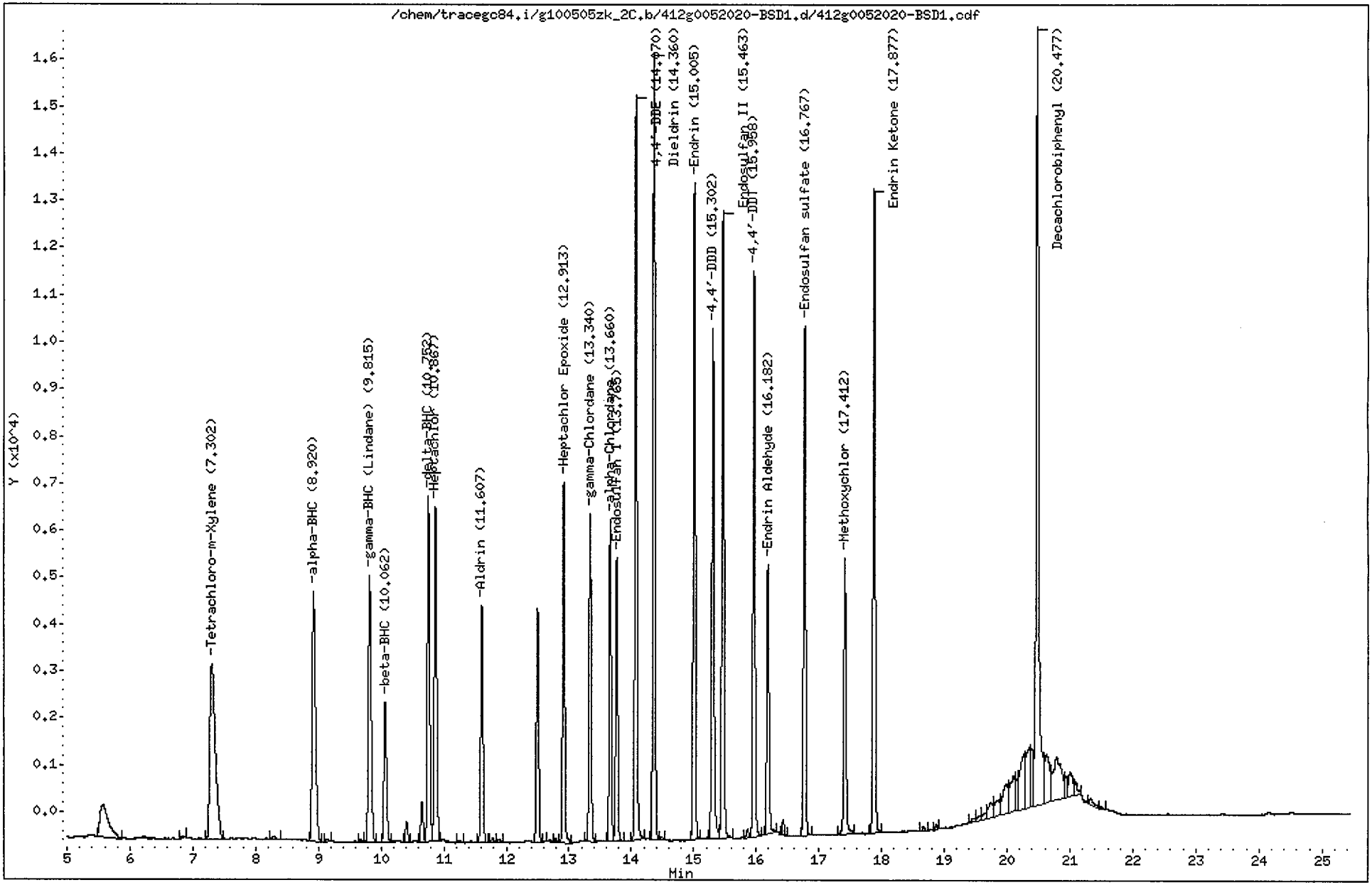
Sample Info: 0052020-BSD1

Volume Injected (uL): 1.0

Operator: AHW

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052020-BSD1 Client Smp Id : PBQLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 21-MAY-2010 12:40 Inst ID : TRACEGC84
Operator : AHW Spike Sublist : DODWater
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : PBQLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.37			53214								
1.78			300788								
2.81			243								
3.23			4437								
4.03			187								
4.52			279								
5.57			6479								
6.84			149								
7.30	7.24	7.38	23050	407875	Tetrachloro-m-Xylene	0.056512	0.282562		94.2	25 - 140	
8.29			266								
8.92	8.85	8.99	19539	597775	alpha-BHC	0.032685	0.163423	0.050000	108.9	60 - 130	
9.14			146								
9.67			135								
9.82	9.75	9.89	17531	579612	gamma-BHC (Lindane)	0.030244	0.151222	0.050000	100.8	25 - 135	
10.06	10.00	10.14	8660	246982	beta-BHC	0.035059	0.175296	0.050000	116.9	65 - 125	
10.40			1201								
10.65			2232								
10.75	10.69	10.83	18757	527058	delta-BHC	0.035586	0.177931	0.050000	118.6	45 - 135	
10.87	10.80	10.94	19484	568222	Heptachlor	0.034288	0.171438	0.050000	114.3	40 - 130	
11.26			140								
11.61	11.54	11.68	12610	535118	Aldrin	0.023565	0.117825	0.050000	78.5	25 - 140	
11.78			236								
11.88			244								
12.50			12070								
12.70			122								
12.79			179								
12.91	12.85	12.99	17907	501448	Heptachlor Epoxide	0.035711	0.178553	0.050000	119.0	60 - 130	
13.34	13.27	13.41	15989	501695	gamma-Chlordane	0.031868	0.159340	0.050000	106.2	60 - 125	
13.66	13.59	13.73	15432	433530	alpha-Chlordane	0.035596	0.177981	0.050000	118.7	65 - 125	
13.76	13.70	13.84	14056	463952	Endosulfan I	0.030296	0.151481	0.050000	101.0	50 - 110	
14.07	14.01	14.15	35435	453016	4,4'-DDE	0.078218	0.391090	0.100000	104.3	35 - 140	
14.36	14.29	14.43	38379	448611	Dieldrin	0.085551	0.427753	0.100000	114.1	60 - 130	
14.49			151								
15.00	14.94	15.08	31993	402899	Endrin	0.079405	0.397023	0.100000	105.9	55 - 135	
15.30	15.24	15.38	26069	318030	4,4'-DDD	0.081967	0.409836	0.100000	109.3	25 - 150	
15.46	15.40	15.54	31209	385788	Endosulfan II	0.080897	0.404484	0.100000	107.9	30 - 130	
15.86			422								

KEH 5/24/10

CompuChem

Lab Smp Id : 0052020-BSD1 Client Smp Id : PBQLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 21-MAY-2010 12:40 Inst ID :
Operator : AHW Spike Sublist : DODWater
Method : /chem/tracegc84.i/g100505zk_2C.b/8081A_clpest2v6.m
Misc. Info : PBQLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 2500(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 500.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
15.96	15.89 16.03	27064	365509	4,4'-DDT	0.074042	0.370210	0.100000	98.7	45 - 140	
16.18	16.12 16.26	14128	284671	Endrin Aldehyde	0.049626	0.248128	0.100000	66.2	55 - 135	
16.43		773								
16.77	16.70 16.84	25192	337218	Endosulfan sulfate	0.074703	0.373513	0.100000	99.6	55 - 135	
17.41	17.35 17.49	14294	167230	Methoxychlor	0.085475	0.427376	0.500000	114.0	55 - 150	J
17.88	17.81 17.95	32910	383354	Endrin Ketone	0.085845	0.429225	0.100000	114.5	75 - 125	
18.67		232								
18.87		216								
19.49		305								
19.58		442								
19.65		507								
19.73		1716								
19.86		1939								
19.98		3965								
20.10		4460								
20.16		1065								
20.26		6601								
20.35		6380								
20.39		3337								
20.48	20.41 20.55	49010	358404	Decachlorobiphenyl	0.136745	0.683726		114.0	30 - 135	
20.63		5692								
20.78		8171								
20.94		1406								
21.00		2358								
21.09		902								
21.32		722								
21.50		147								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCALCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052401-BS1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.12	
319-85-7	beta-BHC	0.14	
319-84-6	alpha-BHC	0.15	
319-86-8	delta-BHC	0.16	
58-89-9	gamma-BHC (Lindane)	0.14	
72-54-8	4,4'-DDD	0.39	
72-55-9	4,4'-DDE	0.36	
50-29-3	4,4'-DDT	0.35	
60-57-1	Dieldrin	0.38	
959-98-8	Endosulfan I	0.14	
33213-65-9	Endosulfan II	0.38	
1031-07-8	Endosulfan sulfate	0.36	
72-20-8	Endrin	0.37	
7421-93-4	Endrin Aldehyde	0.29	
76-44-8	Heptachlor	0.16	
1024-57-3	Heptachlor Epoxide	0.16	
72-43-5	Methoxychlor	0.44	J
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.41	
5103-74-2	gamma-Chlordane	0.14	
5103-71-9	alpha-Chlordane	0.16	

Data File: /chem/tracegc82.i/e100528a_DOD.b/017e0052401-BS1.d

Date : 29-MAY-2010 01:32

Client ID: PCALCS

Instrument: tracegc82.i

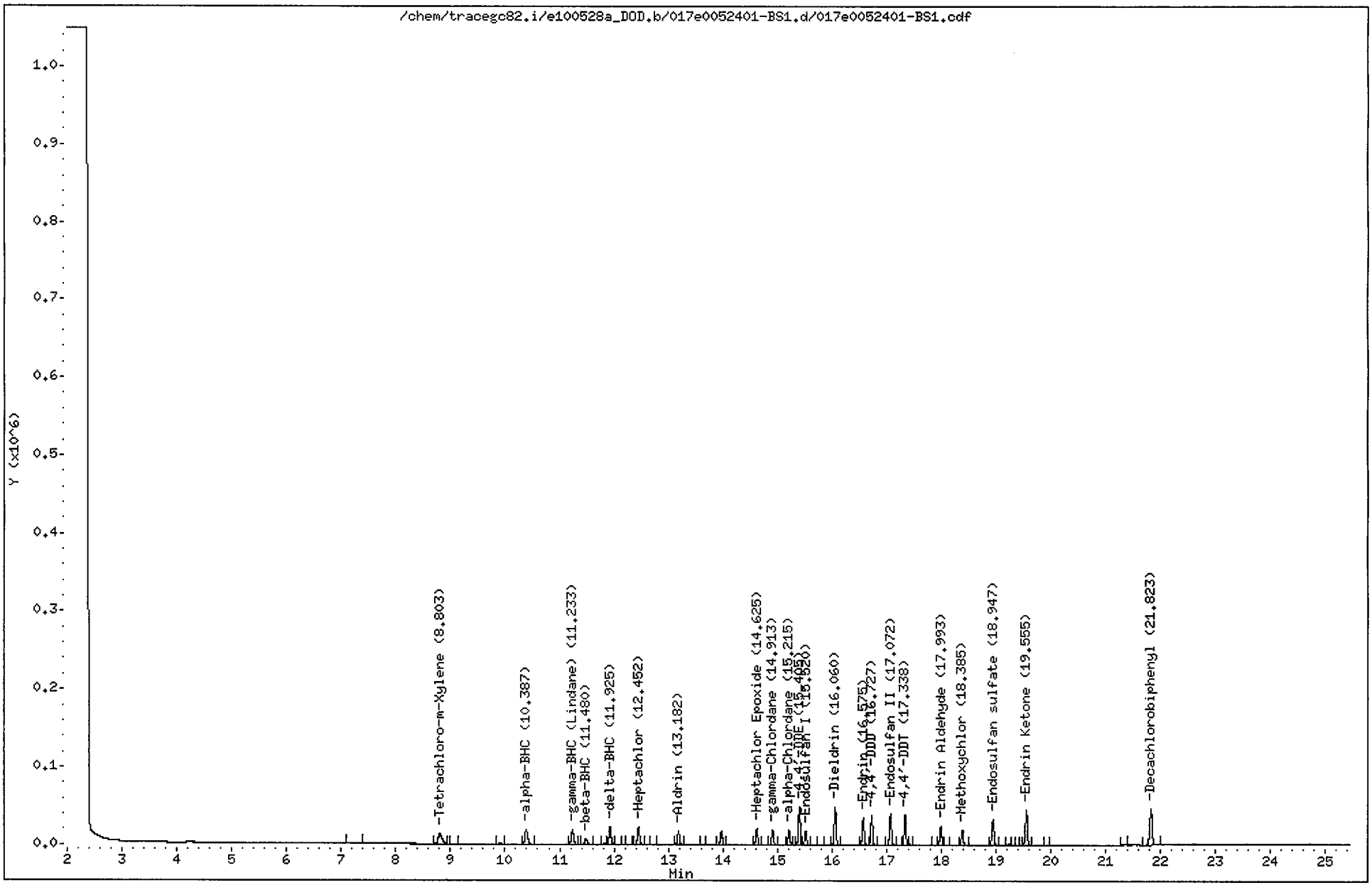
Sample Info: 0052401-BS1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052401-BS1 Client Smp Id : PCALCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 01:32 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : AFCEE
Method : /chem/tracegc82.i/e100528a.b/8081A_clpestv6.m
Misc. Info : PCALCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
7.18			8044								
8.80	8.73	8.87	62849	1040565	Tetrachloro-m-Xylene	0.060399	0.301995		100.7	25 - 140	
9.07			648								
9.90			2405								
10.39	10.32	10.46	64124	1883720	alpha-BHC	0.034041	0.170203	0.050000	113.5	50 - 150	
11.23	11.17	11.31	54583	1779425	gamma-BHC (Lindane)	0.030674	0.153370	0.050000	102.2	50 - 150	
11.48	11.41	11.55	21207	671198	beta-BHC	0.031594	0.157971	0.050000	105.3	50 - 150	
11.67			587								
11.83			1598								
11.92	11.85	11.99	61426	1699815	delta-BHC	0.036137	0.180684	0.050000	120.5	50 - 150	
12.05			1022								
12.28			1694								
12.45	12.38	12.52	58207	1660668	Heptachlor	0.035050	0.175249	0.050000	116.8	50 - 150	
12.71			582								
13.18	13.11	13.25	43533	1536782	Aldrin	0.028327	0.141634	0.050000	94.4	50 - 150	
13.64			288								
13.98			42390								
14.62	14.55	14.69	52157	1449945	Heptachlor Epoxide	0.035972	0.179859	0.050000	119.9	50 - 150	
14.91	14.84	14.98	46799	1446418	gamma-Chlordane	0.032355	0.161776	0.050000	107.9	50 - 150	
15.22	15.15	15.29	45329	1263455	alpha-Chlordane	0.035877	0.179385	0.050000	119.6	50 - 150	
15.40	15.33	15.47	111687	1321226	4,4'-DDE	0.084532	0.422660	0.100000	112.7	50 - 150	
15.52	15.45	15.59	42349	1354612	Endosulfan I	0.031263	0.156314	0.050000	104.2	50 - 150	
15.79			525								
16.06	15.99	16.13	117262	1325039	Dieldrin	0.088496	0.442481	0.100000	118.0	50 - 150	
16.58	16.51	16.65	87702	1038264	Endrin	0.084470	0.422349	0.100000	112.6	50 - 150	
16.73	16.66	16.80	88335	1003289	4,4'-DDD	0.088045	0.440227	0.100000	117.4	50 - 150	
17.07	17.00	17.14	97965	1146620	Endosulfan II	0.085438	0.427190	0.100000	113.9	50 - 150	
17.23			369								
17.34	17.27	17.41	90602	1132045	4,4'-DDT	0.080033	0.400165	0.100000	106.7	50 - 150	
17.43			1778								
17.91			1976								
17.99	17.92	18.06	58655	925036	Endrin Aldehyde	0.063407	0.317036	0.100000	84.5	50 - 150	
18.08			1672								
18.38	18.32	18.46	44928	476818	Methoxychlor	0.094223	0.471113	0.500000	125.6	50 - 150	J
18.95	18.87	19.01	84154	1022702	Endosulfan sulfate	0.082285	0.411425	0.100000	109.7	50 - 150	
19.23			1825								
19.39			423								

6/1/10

CompuChem

Lab Smp Id : 0052401-BS1 Client Smp Id : PCALCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 01:32 Inst ID :
Operator : BWL Spike Sublist : AFCEE
Method : /chem/tracegc82.i/e100528a.b/8081A_clpestv6.m
Misc. Info : PCALCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
19.56	19.48 19.62	115299	1256034	Endrin Ketone	0.091796	0.458981	0.100000	122.4	50 - 150	
19.91		306								
21.34		547								
21.82	21.75 21.89	144045	1016676	Decachlorobiphenyl	0.141681	0.708406		118.1	30 - 135	

Data File: /chem/tracegc82.i/e100528a_2C_DOD.b/017e0052401-BS1.d

Date : 29-MAY-2010 01:32

Client ID: PCALCS

Instrument: tracegc82.i

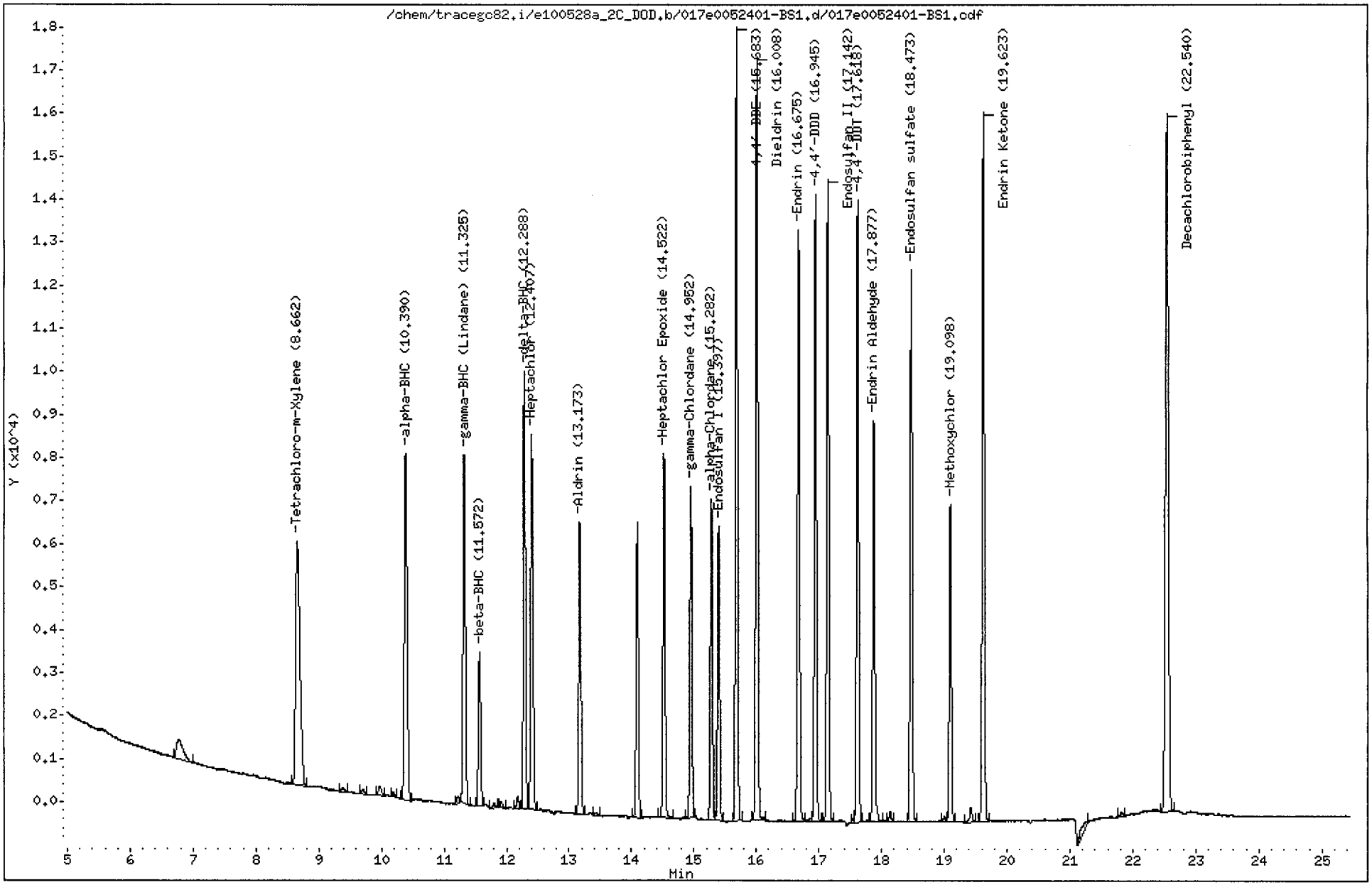
Sample Info: 0052401-BS1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052401-BS1 Client Smp Id : PCALCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 01:32 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODWater
Method : /chem/tracegc82.i/e100528a_2C_DOD.b/8081A_clpest2v6.m
Misc. Info : PCALCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.09		149								
6.78		3496								
8.66	8.59 8.73	27380	503158	Tetrachloro-m-Xylene	0.054416	0.272082		90.7	25 - 140	
9.38		371								
9.71		336								
9.98		782								
10.19		288								
10.39	10.32 10.46	25028	830132	alpha-BHC	0.030148	0.150741	0.050000	100.5	60 - 130	
11.23		409								
11.32	11.25 11.39	21397	788408	gamma-BHC (Lindane)	0.027138	0.135691	0.050000	90.5	25 - 135	
11.57	11.50 11.64	9076	317558	beta-BHC	0.028578	0.142888	0.050000	95.3	65 - 125	
11.81		387								
11.91		400								
12.18		686								
12.29	12.22 12.36	23522	751010	delta-BHC	0.031320	0.156602	0.050000	104.4	45 - 135	
12.41	12.34 12.48	21970	707456	Heptachlor	0.031054	0.155268	0.050000	103.5	40 - 130	
13.17	13.11 13.25	16661	662068	Aldrin	0.025165	0.125826	0.050000	83.9	25 - 140	
13.43		190								
14.10		16350								
14.52	14.45 14.59	19768	626245	Heptachlor Epoxide	0.031566	0.157830	0.050000	105.2	60 - 130	
14.95	14.88 15.02	17724	627128	gamma-Chlordane	0.028262	0.141311	0.050000	94.2	60 - 125	
15.28	15.21 15.35	17340	543742	alpha-Chlordane	0.031888	0.159441	0.050000	106.3	65 - 125	
15.40	15.33 15.47	15972	584790	Endosulfan I	0.027312	0.136562	0.050000	91.0	50 - 110	
15.68	15.61 15.75	40724	562749	4,4'-DDE	0.072366	0.361831	0.100000	96.5	35 - 140	
16.01	15.94 16.08	41714	543158	Dieldrin	0.076799	0.383995	0.100000	102.4	60 - 130	
16.68	16.61 16.75	32973	447924	Endrin	0.073613	0.368065	0.100000	98.2	55 - 135	
16.86		216								
16.94	16.88 17.02	32204	414075	4,4'-DDD	0.077771	0.388855	0.100000	103.7	25 - 150	
17.14	17.07 17.21	35551	473162	Endosulfan II	0.075133	0.375664	0.100000	100.2	30 - 130	
17.55		190								
17.62	17.55 17.69	32384	466515	4,4'-DDT	0.069417	0.347084	0.100000	92.6	45 - 140	
17.88	17.81 17.95	22898	389549	Endrin Aldehyde	0.058781	0.293904	0.100000	78.4	55 - 135	
18.14		491								
18.47	18.41 18.55	30797	424500	Endosulfan sulfate	0.072547	0.362733	0.100000	96.7	55 - 135	
19.00		256								
19.10	19.03 19.17	16842	190365	Methoxychlor	0.088467	0.442335	0.500000	118.0	55 - 150	J
19.43		960								

6/1/10

CompuChem

Lab Smp Id : 0052401-BS1 Client Smp Id : PCALCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 29-MAY-2010 01:32 Inst ID :
Operator : BWL Spike Sublist : DODWater
Method : /chem/tracegc82.i/e100528a_2C_DOD.b/8081A_clpest2v6.m
Misc. Info : PCALCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
19.62	19.55 19.69	40139	493585	Endrin Ketone	0.081321	0.406607	0.100000	108.4	75 - 125	
21.28		1353								
21.82		321								
22.54	22.47 22.61	51827	430874	Decachlorobiphenyl	0.120283	0.601417		100.2	30 - 135	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCALCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix: (soil/water) WATER Lab Sample ID: 0052401-BSD1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 05/29/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.12	
319-85-7	beta-BHC	0.14	
319-84-6	alpha-BHC	0.14	
319-86-8	delta-BHC	0.15	
58-89-9	gamma-BHC (Lindane)	0.13	
72-54-8	4,4'-DDD	0.36	
72-55-9	4,4'-DDE	0.35	
50-29-3	4,4'-DDT	0.32	
60-57-1	Dieldrin	0.36	
959-98-8	Endosulfan I	0.13	
33213-65-9	Endosulfan II	0.34	
1031-07-8	Endosulfan sulfate	0.33	
72-20-8	Endrin	0.34	
7421-93-4	Endrin Aldehyde	0.26	
76-44-8	Heptachlor	0.15	
1024-57-3	Heptachlor Epoxide	0.15	
72-43-5	Methoxychlor	0.39	J
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.37	
5103-74-2	gamma-Chlordane	0.14	
5103-71-9	alpha-Chlordane	0.15	

Data File: /chem/tracegc82.i/e100528a_DOD.b/018e0052401-BSD1.d

Date : 29-MAY-2010 02:01

Client ID: PCALCSD

Instrument: tracegc82.i

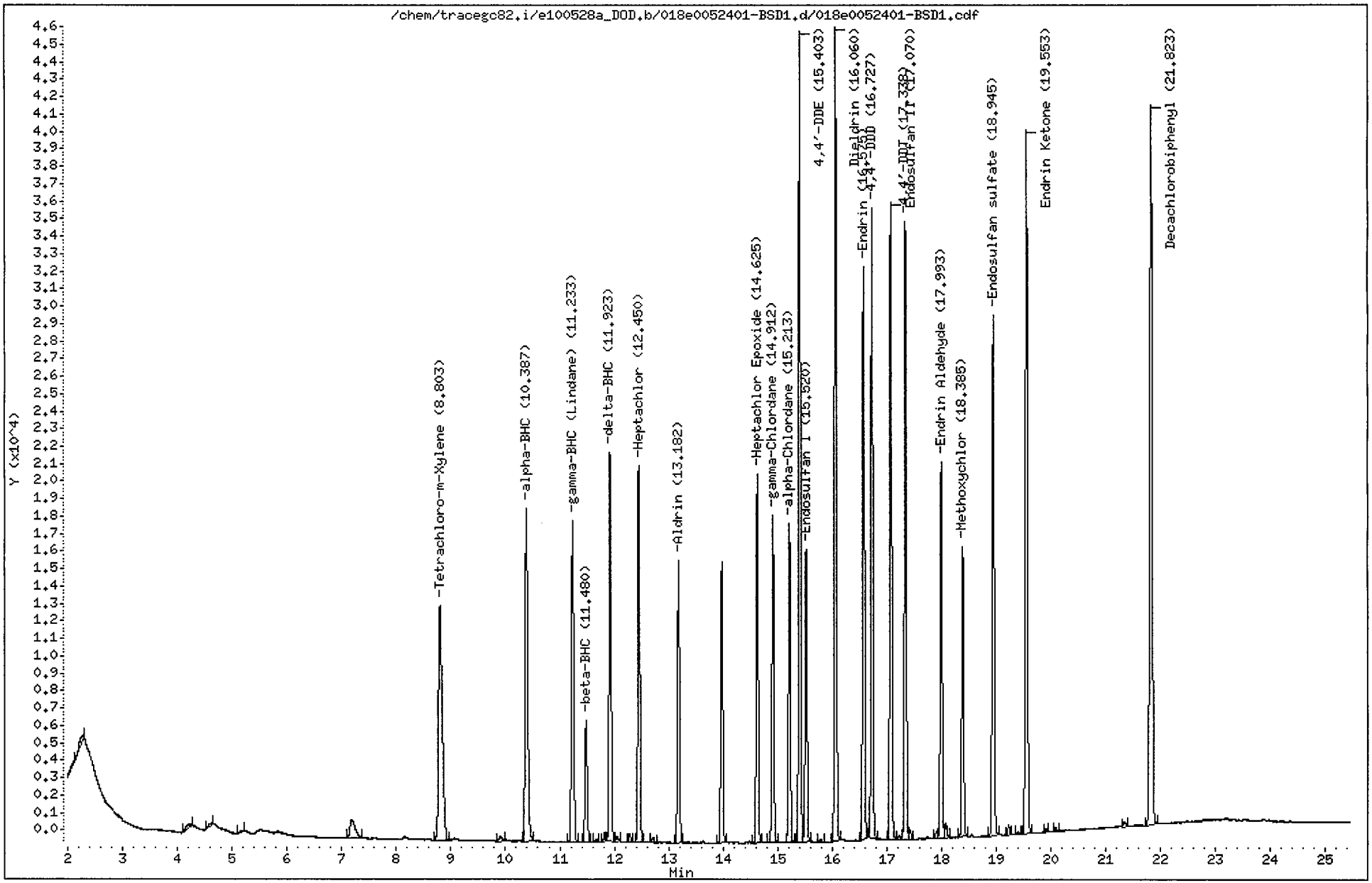
Sample Info: 0052401-BSD1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052401-BSD1 Client Smp Id : PCALCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 29-MAY-2010 02:01 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : AFCEE
Method : /chem/tracegc82.i/e100528a.b/8081A_clpestv6.m
Misc. Info : PCALCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.03			310								
1.50			179326								
2.12			471								
2.28			2001								
4.21			1169								
4.63			757								
5.19			397								
7.19			6812								
8.80	8.73	8.87	63799	1040565	Tetrachloro-m-Xylene	0.061312	0.306559		102.2	25 - 140	
9.91			1038								
10.39	10.32	10.46	62557	1883720	alpha-BHC	0.033209	0.166044	0.050000	110.7	50 - 150	
11.23	11.17	11.31	53079	1779425	gamma-BHC (Lindane)	0.029829	0.149146	0.050000	99.4	50 - 150	
11.48	11.41	11.55	19394	671198	beta-BHC	0.028895	0.144473	0.050000	96.3	50 - 150	
11.66			435								
11.82			1166								
11.92	11.85	11.99	58488	1699815	delta-BHC	0.034408	0.172042	0.050000	114.7	50 - 150	
12.05			623								
12.28			1366								
12.45	12.38	12.52	55648	1660668	Heptachlor	0.033509	0.167544	0.050000	111.7	50 - 150	
12.71			845								
13.18	13.11	13.25	41129	1536782	Aldrin	0.026762	0.133812	0.050000	89.2	50 - 150	
13.98			40322								
14.62	14.55	14.69	50620	1449945	Heptachlor Epoxide	0.034911	0.174555	0.050000	116.4	50 - 150	
14.91	14.84	14.98	44869	1446418	gamma-Chlordane	0.031020	0.155100	0.050000	103.4	50 - 150	
15.21	15.15	15.29	43677	1263455	alpha-Chlordane	0.034569	0.172847	0.050000	115.2	50 - 150	
15.40	15.33	15.47	106606	1321226	4,4'-DDE	0.080686	0.403432	0.100000	107.6	50 - 150	
15.52	15.45	15.59	40812	1354612	Endosulfan I	0.030127	0.150637	0.050000	100.4	50 - 150	
15.79			510								
16.06	15.99	16.13	111599	1325039	Dieldrin	0.084222	0.421112	0.100000	112.3	50 - 150	
16.58	16.51	16.65	80515	1038264	Endrin	0.077548	0.387739	0.100000	103.4	50 - 150	
16.73	16.66	16.80	81646	1003289	4,4'-DDD	0.081378	0.406892	0.100000	108.5	50 - 150	
17.07	17.00	17.14	89723	1146620	Endosulfan II	0.078250	0.391250	0.100000	104.3	50 - 150	
17.23			545								
17.34	17.27	17.41	82972	1132045	4,4'-DDT	0.073293	0.366465	0.100000	97.7	50 - 150	
17.43			1288								
17.90			1015								
17.99	17.92	18.06	52784	925036	Endrin Aldehyde	0.057062	0.285308	0.100000	76.1	50 - 150	

CompuChem

Lab Smp Id : 0052401-BSD1 Client Smp Id : PCALCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 29-MAY-2010 02:01 Inst ID :
Operator : BWL Spike Sublist : AFCEE
Method : /chem/tracegc82.i/e100528a.b/8081A_clpestv6.m
Misc. Info : PCALCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
18.08		1978								
18.38	18.32 18.46	39170	476818	Methoxychlor	0.082149	0.410744	0.500000	109.5	50 - 150	J
18.94	18.87 19.01	75466	1022702	Endosulfan sulfate	0.073790	0.368949	0.100000	98.4	50 - 150	
19.23		1447								
19.39		368								
19.55	19.48 19.62	103707	1256034	Endrin Ketone	0.082567	0.412835	0.100000	110.1	50 - 150	
19.91		454								
20.09		615								
21.34		792								
21.82	21.75 21.89	125552	1016676	Decachlorobiphenyl	0.123492	0.617458		102.9	30 - 135	

Data File: /chem/tracegc82.i/e100528a_2C_DOD.b/018e0052401-BSD1.d

Date : 29-MAY-2010 02:01

Client ID: PCALCSD

Instrument: tracegc82.i

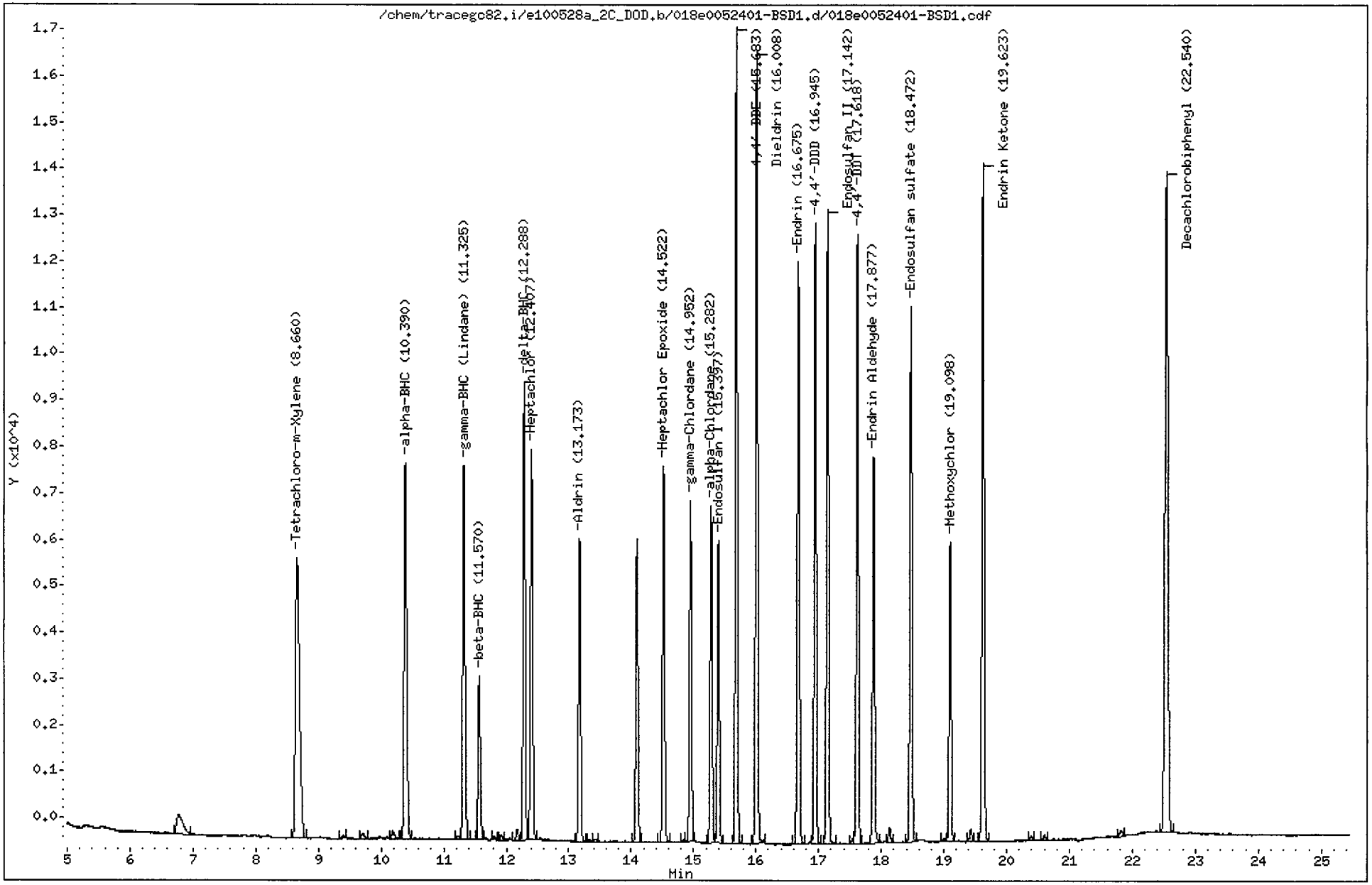
Sample Info: 0052401-BSD1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052401-BSD1 Client Smp Id : PCALCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 29-MAY-2010 02:01 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODWater
Method : /chem/tracegc82.i/e100528a_2C_DOD.b/8081A_clpest2v6.m
Misc. Info : PCALCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.05			125								
1.35			218								
1.52			177622								
2.02			49505								
3.50			248								
4.02			162								
4.96			124								
6.78			2908								
8.66	8.59	8.73	27538	503158	Tetrachloro-m-Xylene	0.054728	0.273642		91.2	25 - 140	
9.39			214								
9.71			385								
10.19			457								
10.39	10.32	10.46	23987	830132	alpha-BHC	0.028894	0.144471	0.050000	96.3	60 - 130	
11.22			221								
11.32	11.25	11.39	20926	788408	gamma-BHC (Lindane)	0.026542	0.132711	0.050000	88.5	25 - 135	
11.57	11.50	11.64	8804	317558	beta-BHC	0.027724	0.138621	0.050000	92.4	65 - 125	
11.81			187								
11.92			305								
12.18			598								
12.29	12.22	12.36	22588	751010	delta-BHC	0.030075	0.150377	0.050000	100.3	45 - 135	
12.41	12.34	12.48	20916	707456	Heptachlor	0.029564	0.147818	0.050000	98.5	40 - 130	
13.17	13.11	13.25	15721	662068	Aldrin	0.023745	0.118727	0.050000	79.2	25 - 140	
13.33			123								
13.43			135								
14.09			15569								
14.52	14.45	14.59	18979	626245	Heptachlor Epoxide	0.030304	0.151522	0.050000	101.0	60 - 130	
14.84			147								
14.95	14.88	15.02	17182	627128	gamma-Chlordane	0.027396	0.136982	0.050000	91.3	60 - 125	
15.28	15.21	15.35	16678	543742	alpha-Chlordane	0.030671	0.153354	0.050000	102.2	65 - 125	
15.40	15.33	15.47	15351	584790	Endosulfan I	0.026249	0.131244	0.050000	87.5	50 - 110	
15.68	15.61	15.75	38970	562749	4,4'-DDE	0.069248	0.346238	0.100000	92.3	35 - 140	
16.01	15.94	16.08	39595	543158	Dieldrin	0.072896	0.364480	0.100000	97.2	60 - 130	
16.68	16.61	16.75	30274	447924	Endrin	0.067585	0.337926	0.100000	90.1	55 - 135	
16.94	16.88	17.02	29584	414075	4,4'-DDD	0.071444	0.357218	0.100000	95.3	25 - 150	
17.14	17.07	17.21	32627	473162	Endosulfan II	0.068955	0.344776	0.100000	91.9	30 - 130	
17.55			282								
17.62	17.55	17.69	29696	466515	4,4'-DDT	0.063653	0.318264	0.100000	84.9	45 - 140	

6/1/10

CompuChem

Lab Smp Id : 0052401-BSD1 Client Smp Id : PCALCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 29-MAY-2010 02:01 Inst ID :
Operator : BWL Spike Sublist : DODWater
Method : /chem/tracegc82.i/e100528a_2C_DOD.b/8081A_clpest2v6.m
Misc. Info : PCALCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
17.88	17.81 17.95	20261	389549	Endrin Aldehyde	0.052009	0.260044	0.100000	69.3	55 - 135	
18.14		710								
18.47	18.41 18.55	27688	424500	Endosulfan sulfate	0.065223	0.326113	0.100000	87.0	55 - 135	
19.01		170								
19.10	19.03 19.17	14943	190365	Methoxychlor	0.078491	0.392457	0.500000	104.7	55 - 150	J
19.42		634								
19.62	19.55 19.69	36159	493585	Endrin Ketone	0.073256	0.366279	0.100000	97.7	75 - 125	
20.39		191								
20.60		251								
21.82		408								
22.54	22.47 22.61	46161	430874	Decachlorobiphenyl	0.107131	0.535656		89.3	30 - 135	

c. Matrix Spike Data

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

d. Matrix Spike Duplicate Data

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

CompuChem

A Division Of

Liberty Analytical Corp.

6/15/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S. WorkOrder: 1005131

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005131

Project CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005131

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005131-01	EB051210-SS	Water	05/12/2010 10:30	05/13/2010 09:30
1005131-02	EB051310-SB	Water	05/13/2010 12:00	05/14/2010 09:20
1005131-03	BBG-FB051310	Water	05/13/2010 12:20	05/14/2010 09:20
1005131-04	BBG-FB051810	Water	05/18/2010 12:00	05/19/2010 09:05
1005131-05	EB051810-SS	Water	05/18/2010 12:05	05/19/2010 09:05

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC/MS by SW-846

Modified For Selected Ion Monitoring (SIM)

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

A. SDG Narrative

B. Tabulated target compound results (Form I)

C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low or Medium)

D. Spike results MS / MSD / LCS (Form III)

E. Blank data (Form IV)
Tabulated blank results (Form I)

F. Internal standard area response and retention time data (Form VIII)

LAB CODE: LIBRTY METHOD: 8270C

SDG # : 1005131

A. SDG Narrative

CompuChem
a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005131
PROTOCOL: SW-846
Date: June 01, 2010

SAMPLE IDENTIFICATIONS:

BBG-FB051310, BBG-FB051810, EB051210-SS, EB051310-SB, and EB051810-SS

The five (5) aqueous samples listed above were received intact, with proper documentation, in sealed shipping containers, on May 13, 14, and 19, 2010. The cooler temperatures associated with these samples were 2.3, 0.7, and 1.7 °C. The samples were scheduled for the requested analysis of the semivolatile Selected Ion Monitoring (SIM) fraction.

SW-846, 3rd Edition, Update 3, Separatory Funnel extraction (Method 3510C), and Method 8270C Selected Ion Monitoring (SIM) were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. This portion of the narrative deals with the semivolatile SIM fraction only.

Semivolatile SIM:

Extraction and analysis holding time requirements were met for these samples.

Sample BBG-FB051310 was extracted using 950 mL of raw sample, rather than the method-specified amount of 1000 mL. The use of this lower volume of the raw sample resulted in slightly higher Contract Required Quantitation Limits (CRQLs).

Sample BBG-FB051810 was extracted using 925 mL of raw sample, rather than the method-specified amount of 1000 mL. The use of this lower volume of the raw sample resulted in slightly higher Contract Required Quantitation Limits (CRQLs).

Sample EB051810-SS was extracted using 900 mL of raw sample, rather than the method-specified amount of 1000 mL. The use of this lower volume of the raw sample resulted in slightly higher Contract Required Quantitation Limits (CRQLs).

There were no semivolatile SIM project analytes identified above the Contract Required Quantitation Limits (CRQLs) in any of these samples.

Manual integrations were performed on one or more of the process files associated with this SDG. Please see the detailed Manual Integration Summary report that is located behind this SDG narrative. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

Mass assignments were verified by the injections of Perfluorotributylamine for the SIM analysis.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

There is no Form VII in the deliverables package for the batch analyzed on instrument 5972HP66 on 05/25/2010 associated with the FC-43 scan at 0559. This batch included an initial calibration and the relevant relative response factors are all displayed on the appropriate Form VI. The initial calibration met all acceptance criteria and therefore samples could be analyzed without having to inject a continuing calibration verification standard.

All surrogate standards met recovery and retention time criteria in the analyses of these samples.

All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria.

No matrix spike/matrix spike duplicate (MS/MSD) samples were requested for this SDG.

The associated Laboratory Control Samples, prepared and analyzed along with these samples, met all accuracy and precision criteria.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted electronically has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

S.A. Parikh

Saroj A. Parikh
Data Reviewer
June 01, 2010

Manual Integrations											
SDG: 180513I											
				Samples							
	SBLKCS	SBLKCSD	-01	-08	-04						
Compound											
Naphthalene											
2-Methylnaphthalene			✓	✓	✓						
1-Methylnaphthalene											
Acenaphthylene											
Acenaphthene											
Fluorene											
Phenanthrene											
Anthracene											
Fluoranthene											
Pyrene											
Benzo(a)anthracene											
Chrysene											
Benzo(b)fluoranthene											
Benzo(k)fluoranthene											
Benzo(a)pyrene											
Indeno(1,2,3-cd)pyrene	✓	✓									
Dibenzo(a,h)anthracene											
Benzo(g,h,i)perylene											
1,4-Dichlorobenzene-d4											
Naphthalene-d8											
Acenaphthene-d10											
Phenanthrene-d10											
Chrysene-d12											
Perylene-d12											
2-Fluorophenol											
Phenol-d5											
Nitrobenzene-d5											
2,4,6-Tribromophenol											
2-Fluorobiphenyl											
Terphenyl-d14											
"X" Denotes a manual integration for the compound											

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005131

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
	Restek	clpest	0.32	0.5	30
	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
X	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

GC and GC/MS Volatiles Laboratory		
Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C	
	* 1.2 cm Carbopack B	
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)	
	* 6 cm of Carboxen 1000 (Carbon molecular sieves)	
	* 1 cm of Carboxen 1001 (Carbon molecular sieves)	

Rev. 22

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Revision 6 (12/6/2005)

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥85% in the SOM01.1 SOW), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations (responses in the SOM01.1 SOW) exceed the upper level of the calibration range (exceed the response of the high ICAL standard in the SOM01.1 SOW) of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range (greater than the response of the highest ICAL standard in the SOM01.1 SOW), the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range (with responses greater than the response of the highest ICAL standard in the SOM01.1 SOW) will have the concentration (result in the SOM01.1 SOW) flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration (response in the SOM01.1 SOW) of an analyte exceeds the upper calibration range (exceeds the response of the highest ICAL standard in the SOM01.1 SOW), the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.1 SOW, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Form I

Organic Analysis Data Sheet (OADS)
- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: Lab Project Number:
Client SDG No: 1005131 Method: 8270C-SIM
Client Sample ID: BBG-FB051310 Date Collected: 05/13/10

Lab Sample ID: 1005131-03 Date Received: 05/14/10
Sample wt/vol: 950 (g/mL) ML Lab File ID: 1005131-03J2C66
Level: (low/med) LOW Analyst: 2743

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/19/10
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/10
Injection Volume: 2.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0051905-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.21	0.058	J
91-57-6	2-Methylnaphthalene	0.016	0.21	ND	U
208-96-8	Acenaphthylene	0.011	0.21	ND	U
83-32-9	Acenaphthene	0.037	0.21	ND	U
86-73-7	Fluorene	0.047	0.21	ND	U
85-01-8	Phenanthrene	0.037	0.21	ND	U
120-12-7	Anthracene	0.021	0.21	ND	U
206-44-0	Fluoranthene	0.011	0.21	ND	U
129-00-0	Pyrene	0.011	0.21	ND	U
56-55-3	Benzo(a)anthracene	0.021	0.21	ND	U
218-01-9	Chrysene	0.016	0.21	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.21	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.21	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.21	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.21	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.21	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.21	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: | Lab Project Number:
Client SDG No: 1005131 | Method: 8270C-SIM
Client Sample ID: BBG-FB051810 | Date Collected: 05/18/10

Lab Sample ID: 1005131-04 | Date Received: 05/19/10
Sample wt/vol: 925 (g/mL) ML | Lab File ID: 1005131-04J2C66
Level: (low/med) LOW | Analyst: 2743

% Moisture: _____ decanted: (Y/N)___ | Date Extracted: 05/24/10
Concentrated Extract Volume: 1000(uL) | Date Analyzed: 05/26/10
Injection Volume: 2.0(uL) | Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0052402-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.22	0.16	J
91-57-6	2-Methylnaphthalene	0.016	0.22	0.021	J
208-96-8	Acenaphthylene	0.011	0.22	ND	U
83-32-9	Acenaphthene	0.038	0.22	ND	U
86-73-7	Fluorene	0.049	0.22	ND	U
85-01-8	Phenanthrene	0.038	0.22	ND	U
120-12-7	Anthracene	0.022	0.22	ND	U
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.016	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: Lab Project Number:
Client SDG No: 1005131 Method: 8270C-SIM
Client Sample ID: EB051210-SS Date Collected: 05/12/10

Lab Sample ID: 1005131-01 Date Received: 05/13/10
Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1005131-01JA66
Level: (low/med) LOW Analyst: 2650

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/19/10
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/24/10
Injection Volume: 2.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0051905-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.11	J
91-57-6	2-Methylnaphthalene	0.015	0.20	0.018	J
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: Lab Project Number:
Client SDG No: 1005131 Method: 8270C-SIM
Client Sample ID: EB051310-SB Date Collected: 05/13/10

Lab Sample ID: 1005131-02 Date Received: 05/14/10
Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1005131-02JC66
Level: (low/med) LOW Analyst: 2743

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/19/10
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/10
Injection Volume: 2.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0051905-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.055	J
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: Lab Project Number:
Client SDG No: 1005131 Method: 8270C-SIM
Client Sample ID: EB051810-SS Date Collected: 05/18/10

Lab Sample ID: 1005131-05 Date Received: 05/19/10
Sample wt/vol: 900 (g/mL) ML Lab File ID: 1005131-05C66
Level: (low/med) LOW Analyst: 2743

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/24/10
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/10
Injection Volume: 2.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0052402-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.033	0.22	0.15	J
91-57-6	2-Methylnaphthalene	0.017	0.22	0.018	J
208-96-8	Acenaphthylene	0.011	0.22	ND	U
83-32-9	Acenaphthene	0.039	0.22	ND	U
86-73-7	Fluorene	0.050	0.22	ND	U
85-01-8	Phenanthrene	0.039	0.22	ND	U
120-12-7	Anthracene	0.022	0.22	ND	U
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.017	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SBNLCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051905-BS1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051905-BS1JA66
Analyst: 2650

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051905-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.34	
91-57-6	2-Methylnaphthalene	0.015	0.20	0.38	
208-96-8	Acenaphthylene	0.0100	0.20	0.35	
83-32-9	Acenaphthene	0.035	0.20	0.35	
86-73-7	Fluorene	0.045	0.20	0.45	
85-01-8	Phenanthrene	0.035	0.20	0.45	
120-12-7	Anthracene	0.020	0.20	0.44	
206-44-0	Fluoranthene	0.0100	0.20	0.52	
129-00-0	Pyrene	0.0100	0.20	0.51	
56-55-3	Benzo(a)anthracene	0.020	0.20	0.46	
218-01-9	Chrysene	0.015	0.20	0.52	
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	0.41	
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	0.55	
50-32-8	Benzo(a)pyrene	0.0100	0.20	0.41	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	0.41	
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	0.46	
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	0.49	

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SBNLCSD

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051905-BSD1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051905-BSD1A66
Analyst: 2650

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051905-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.34	
91-57-6	2-Methylnaphthalene	0.015	0.20	0.43	
208-96-8	Acenaphthylene	0.0100	0.20	0.34	
83-32-9	Acenaphthene	0.035	0.20	0.35	
86-73-7	Fluorene	0.045	0.20	0.49	
85-01-8	Phenanthrene	0.035	0.20	0.46	
120-12-7	Anthracene	0.020	0.20	0.40	
206-44-0	Fluoranthene	0.0100	0.20	0.50	
129-00-0	Pyrene	0.0100	0.20	0.49	
56-55-3	Benzo(a)anthracene	0.020	0.20	0.44	
218-01-9	Chrysene	0.015	0.20	0.53	
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	0.39	
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	0.54	
50-32-8	Benzo(a)pyrene	0.0100	0.20	0.42	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	0.44	
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	0.50	
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	0.56	

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SCBLCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0052402-BS1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0052402-BS1JC66
Analyst: 2743

% Moisture: _____ decanted: (Y/N)___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052402-BLK1

Date Extracted: 05/24/10
Date Analyzed: 05/25/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.39	
91-57-6	2-Methylnaphthalene	0.015	0.20	0.35	
208-96-8	Acenaphthylene	0.0100	0.20	0.37	
83-32-9	Acenaphthene	0.035	0.20	0.38	
86-73-7	Fluorene	0.045	0.20	0.34	
85-01-8	Phenanthrene	0.035	0.20	0.40	
120-12-7	Anthracene	0.020	0.20	0.40	
206-44-0	Fluoranthene	0.0100	0.20	0.41	
129-00-0	Pyrene	0.0100	0.20	0.40	
56-55-3	Benzo(a)anthracene	0.020	0.20	0.46	
218-01-9	Chrysene	0.015	0.20	0.46	
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	0.42	
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	0.44	
50-32-8	Benzo(a)pyrene	0.0100	0.20	0.43	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	0.41	
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	0.42	
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	0.41	

ND = Not Detected
Q = Qualifier

FORM I SV-1

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SCBLCSD

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0052402-BSD1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0052402-BSD1C66
Analyst: 2743

% Moisture: _____ decanted: (Y/N)___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052402-BLK1

Date Extracted: 05/24/10
Date Analyzed: 05/25/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.39	
91-57-6	2-Methylnaphthalene	0.015	0.20	0.37	
208-96-8	Acenaphthylene	0.0100	0.20	0.39	
83-32-9	Acenaphthene	0.035	0.20	0.40	
86-73-7	Fluorene	0.045	0.20	0.37	
85-01-8	Phenanthrene	0.035	0.20	0.43	
120-12-7	Anthracene	0.020	0.20	0.41	
206-44-0	Fluoranthene	0.0100	0.20	0.42	
129-00-0	Pyrene	0.0100	0.20	0.40	
56-55-3	Benzo(a)anthracene	0.020	0.20	0.42	
218-01-9	Chrysene	0.015	0.20	0.45	
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	0.44	
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	0.39	
50-32-8	Benzo(a)pyrene	0.0100	0.20	0.41	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	0.41	
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	0.42	
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	0.43	

ND = Not Detected
Q = Qualifier

FORM I SV-1

C. Form II

Surrogate spike analysis

- By level (low, medium) -

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

	CLIENT SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLKBN	76	86	131						0
02	SBNLCSD	67	78	101						0
03	SBNLCS	65	70	104						0
04	EB051210-SS	79	70	127						0
05	EB051310-SB	64	62	83						0
06	BBG-FB051310	64	59	70						0
07	SBLKCB	63	69	85						0
08	SCBLCSD	76	58	86						0
09	EB051810-SS	71	54	69						0
10	SCBLCS	73	83	83						0
11	BBG-FB051810	83	70	83						0
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(40-110)
S2 (FBP) = 2-Fluorobiphenyl	(50-110)
S3 (TPH) = Terphenyl-d14	(50-135)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results
- By level (low, medium) -
Laboratory Control Sample(s)

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

SBNLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix Spike - EPA Sample No.: SBNLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Naphthalene	0.5		0.3436	69	40-110
2-Methylnaphthalene	0.5		0.3776	76	45-105
Acenaphthylene	0.5		0.3468	69	50-105
Acenaphthene	0.5		0.3535	71	45-110
Fluorene	0.5		0.4462	89	50-110
Phenanthrene	0.5		0.4527	91	50-115
Anthracene	0.5		0.4377	88	55-110
Fluoranthene	0.5		0.5205	104	55-115
Pyrene	0.5		0.5056	101	50-130
Benzo(a)anthracene	0.5		0.4599	92	45-120
Chrysene	0.5		0.5174	103	55-110
Benzo(b)fluoranthene	0.5		0.4089	82	45-120
Benzo(k)fluoranthene	0.5		0.5531	111	45-125
Benzo(a)pyrene	0.5		0.415	83	55-110
Indeno(1,2,3-cd)pyrene	0.5		0.4141	83	45-125
Dibenzo(a,h)anthracene	0.5		0.4616	92	40-125
Benzo(g,h,i)perylene	0.5		0.4943	99	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Method: 8270C-SIM SBNLCS

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix Spike - EPA Sample No.: SBNLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	0.5	0.3436	69	0	30	40-110
2-Methylnaphthalene	0.5	0.4337	87	13	30	45-105
Acenaphthylene	0.5	0.3417	68	1	30	50-105
Acenaphthene	0.5	0.3513	70	1	30	45-110
Fluorene	0.5	0.4929	99	11	30	50-110
Phenanthrene	0.5	0.4553	91	0	30	50-115
Anthracene	0.5	0.396	79	11	30	55-110
Fluoranthene	0.5	0.5021	100	4	30	55-115
Pyrene	0.5	0.4898	98	3	30	50-130
Benzo(a)anthracene	0.5	0.4378	88	4	30	45-120
Chrysene	0.5	0.5259	105	2	30	55-110
Benzo(b)fluoranthene	0.5	0.3933	79	4	30	45-120
Benzo(k)fluoranthene	0.5	0.5403	108	3	30	45-125
Benzo(a)pyrene	0.5	0.4159	83	0	30	55-110
Indeno(1,2,3-cd)pyrene	0.5	0.439	88	6	30	45-125
Dibenzo(a,h)anthracene	0.5	0.4965	99	7	30	40-125
Benzo(g,h,i)perylene	0.5	0.5581	112	12	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

SCBLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix Spike - EPA Sample No.: SCBLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Naphthalene	0.5		0.3853	77	40-110
2-Methylnaphthalene	0.5		0.3529	71	45-105
Acenaphthylene	0.5		0.3696	74	50-105
Acenaphthene	0.5		0.3794	76	45-110
Fluorene	0.5		0.3423	68	50-110
Phenanthrene	0.5		0.4	80	50-115
Anthracene	0.5		0.4045	81	55-110
Fluoranthene	0.5		0.4097	82	55-115
Pyrene	0.5		0.3992	80	50-130
Benzo(a)anthracene	0.5		0.4565	91	45-120
Chrysene	0.5		0.4629	93	55-110
Benzo(b)fluoranthene	0.5		0.4234	85	45-120
Benzo(k)fluoranthene	0.5		0.4426	89	45-125
Benzo(a)pyrene	0.5		0.433	87	55-110
Indeno(1,2,3-cd)pyrene	0.5		0.4081	82	45-125
Dibenzo(a,h)anthracene	0.5		0.424	85	40-125
Benzo(g,h,i)perylene	0.5		0.4085	82	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

SCBLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix Spike - EPA Sample No.: SCBLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	0.5	0.3854	77	0	30	40-110
2-Methylnaphthalene	0.5	0.3746	75	5	30	45-105
Acenaphthylene	0.5	0.389	78	5	30	50-105
Acenaphthene	0.5	0.3981	80	5	30	45-110
Fluorene	0.5	0.3737	75	10	30	50-110
Phenanthrene	0.5	0.4265	85	6	30	50-115
Anthracene	0.5	0.4108	82	1	30	55-110
Fluoranthene	0.5	0.4207	84	2	30	55-115
Pyrene	0.5	0.4034	81	1	30	50-130
Benzo(a)anthracene	0.5	0.4213	84	8	30	45-120
Chrysene	0.5	0.4492	90	3	30	55-110
Benzo(b)fluoranthene	0.5	0.4377	88	3	30	45-120
Benzo(k)fluoranthene	0.5	0.3881	78	13	30	45-125
Benzo(a)pyrene	0.5	0.4062	81	7	30	55-110
Indeno(1,2,3-cd)pyrene	0.5	0.4056	81	1	30	45-125
Dibenzo(a,h)anthracene	0.5	0.4247	85	0	30	40-125
Benzo(g,h,i)perylene	0.5	0.4271	85	4	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

E. Form IV

Method Blank Results
Form IV and Form I

Method blank summary, OADS
- In chronological order of analysis

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKBN

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID: 0051905-BLK1A66 Lab Sample ID: 0051905-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/19/10

Matrix: (soil/water) WATER Date Analyzed: 05/24/10

Level: (low/med) LOW Time Analyzed: 1226

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBNLCSD	0051905-BSD1	0051905-BSD1	05/24/10
02	SBNLCS	0051905-BS1	0051905-BS1J	05/24/10
03	EB051210-SS	1005131-01	1005131-01JA	05/24/10
04	EB051310-SB	1005131-02	1005131-02JC	05/25/10
05	BBG-FB051310	1005131-03	1005131-03J2	05/25/10
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SBLKBN

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051905-BLK1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051905-BLK1A66
Analyst: 2650

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051905-BLK1

Date Extracted: 05/19/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	ND	U
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKCB

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID: 0052402-BLK1C66 Lab Sample ID: 0052402-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/24/10

Matrix: (soil/water) WATER Date Analyzed: 05/25/10

Level:(low/med) LOW Time Analyzed: 1046

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SCBLCSD	0052402-BSD1	0052402-BSD1	05/25/10
02	EB051810-SS	1005131-05	1005131-05C6	05/25/10
03	SCBLCS	0052402-BS1	0052402-BS1J	05/25/10
04	BBG-FB051810	1005131-04	1005131-04J2	05/26/10
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SBLKCB

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0052402-BLK1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0052402-BLK1C66
Analyst: 2743

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052402-BLK1

Date Extracted: 05/24/10
Date Analyzed: 05/25/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	ND	U
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

F. Form VIII

Internal standard area and retention time data

(VOA and SV only)

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E24006-CCV1A66 Date Analyzed: 05/24/10

Instrument ID: 5972HP66 Time Analyzed: 1152

		IS1(CRY)		IS2(PRY)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	40910	19.34	33120	21.96	29379	5.57
	UPPER LIMIT	81820	19.84	66240	22.46	58758	6.07
	LOWER LIMIT	20455	18.84	16560	21.46	14689	5.07
	CLIENT SAMPLE NO.						
01	SBLKBN	37475	19.34	35401	21.96	31733	5.56
02	SBNLCSD	25076	19.34	24476	21.96	32049	5.56
03	SBNLCS	59219	19.34	48759	21.96	45695	5.57
04	EB051210-SS	29313	19.34	24319	21.96	34442	5.57
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E24006-CCV1A66 Date Analyzed: 05/24/10

Instrument ID: 5972HP66 Time Analyzed: 1152

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	78737	7.81	25566	11.23	46661	14.10
	UPPER LIMIT	157474	8.31	51132	11.73	93322	14.60
	LOWER LIMIT	39369	7.31	12783	10.73	23331	13.60
	CLIENT SAMPLE NO.						
01	SBLKBN	98870	7.81	34048	11.23	51515	14.10
02	SBNLCSD	89502	7.81	26289	11.23	36306	14.10
03	SBNLCS	140298	7.81	49353	11.23	82039	14.10
04	EB051210-SS	98527	7.81	34196	11.23	49102	14.10
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E25001-CAL3C66 Date Analyzed: 05/25/10

Instrument ID: 5972HP66 Time Analyzed: 0601

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	75031	19.32	62246	21.95	37182	5.55
	UPPER LIMIT	150062	19.82	124492	22.45	74364	6.05
	LOWER LIMIT	37515	18.82	31123	21.45	18591	5.05
	CLIENT SAMPLE NO.						
01	EB051310-SB	86966	19.32	79301	21.95	44507	5.54
02	BBG-FB051310	143424	19.32	118208	21.94	51974	5.54
03	SBLKCB	58164	19.32	54659	21.94	34149	5.55
04	SCBLCSD	63541	19.32	59818	21.94	26848	5.54
05	EB051810-SS	113370	19.32	104105	21.95	39737	5.54
06	SCBLCS	128243	19.33	115730	21.95	47982	5.56
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E25001-CAL3C66 Date Analyzed: 05/25/10

Instrument ID: 5972HP66 Time Analyzed: 0601

		IS4(NPT) AREA	#	RT	#	IS5(ANT) AREA	#	RT	#	IS6(PHN) AREA	#	RT	#
	12 HOUR STD	125435		7.80		56129		11.22		92434		14.09	
	UPPER LIMIT	250870		8.30		112258		11.72		184868		14.59	
	LOWER LIMIT	62717		7.30		28065		10.72		46217		13.59	
	CLIENT SAMPLE NO.												
01	EB051310-SB	149596		7.80		64528		11.22		104515		14.09	
02	BBG-FB051310	182151		7.80		84590		11.22		160170		14.09	
03	SBLKCB	110315		7.79		44002		11.22		69551		14.09	
04	SCBLCSD	93250		7.79		41267		11.22		70526		14.09	
05	EB051810-SS	140730		7.80		63014		11.22		114114		14.09	
06	SCBLCS	171994		7.80		79674		11.22		143635		14.09	
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E26002-CCV1C66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 0611

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	157952	19.34	126573	21.96	41032	5.56
	UPPER LIMIT	315904	19.84	253146	22.46	82064	6.06
	LOWER LIMIT	78976	18.84	63287	21.46	20516	5.06
	CLIENT SAMPLE NO.						
01	BBG-FB051810	171532	19.34	127973	21.96	44702	5.56
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E26002-CCV1C66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 0611

		IS4(NPT) AREA	#	RT	#	IS5(ANT) AREA	#	RT	#	IS6(PHN) AREA	#	RT	#
	12 HOUR STD	146916		7.80		68609		11.23		134040		14.10	
	UPPER LIMIT	293832		8.30		137218		11.73		268080		14.60	
	LOWER LIMIT	73458		7.30		34305		10.73		67020		13.60	
	CLIENT SAMPLE NO.												
01	BBG-FB051810	159150		7.80		73421		11.23		148845		14.10	
02													
03													
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC/MS by SW-846

Modified For Selected Ion Monitoring (SIM)

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

LAB CODE: LIBRTY METHOD: 8270C

SDG # : 1005131

A. SDG Narrative

CompuChem
a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005131
PROTOCOL: SW-846
Date: June 01, 2010

SAMPLE IDENTIFICATIONS:

BBG-FB051310, BBG-FB051810, EB051210-SS, EB051310-SB, and EB051810-SS

The five (5) aqueous samples listed above were received intact, with proper documentation, in sealed shipping containers, on May 13, 14, and 19, 2010. The cooler temperatures associated with these samples were 2.3, 0.7, and 1.7 °C. The samples were scheduled for the requested analysis of the semivolatile Selected Ion Monitoring (SIM) fraction.

SW-846, 3rd Edition, Update 3, Separatory Funnel extraction (Method 3510C), and Method 8270C Selected Ion Monitoring (SIM) were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. This portion of the narrative deals with the semivolatile SIM fraction only.

Semivolatile SIM:

Extraction and analysis holding time requirements were met for these samples.

Sample BBG-FB051310 was extracted using 950 mL of raw sample, rather than the method-specified amount of 1000 mL. The use of this lower volume of the raw sample resulted in slightly higher Contract Required Quantitation Limits (CRQLs).

Sample BBG-FB051810 was extracted using 925 mL of raw sample, rather than the method-specified amount of 1000 mL. The use of this lower volume of the raw sample resulted in slightly higher Contract Required Quantitation Limits (CRQLs).

Sample EB051810-SS was extracted using 900 mL of raw sample, rather than the method-specified amount of 1000 mL. The use of this lower volume of the raw sample resulted in slightly higher Contract Required Quantitation Limits (CRQLs).

There were no semivolatile SIM project analytes identified above the Contract Required Quantitation Limits (CRQLs) in any of these samples.

Manual integrations were performed on one or more of the process files associated with this SDG. Please see the detailed Manual Integration Summary report that is located behind this SDG narrative. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

Mass assignments were verified by the injections of Perfluorotributylamine for the SIM analysis.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

There is no Form VII in the deliverables package for the batch analyzed on instrument 5972HP66 on 05/25/2010 associated with the FC-43 scan at 0559. This batch included an initial calibration and the relevant relative response factors are all displayed on the appropriate Form VI. The initial calibration met all acceptance criteria and therefore samples could be analyzed without having to inject a continuing calibration verification standard.

All surrogate standards met recovery and retention time criteria in the analyses of these samples.

All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria.

No matrix spike/matrix spike duplicate (MS/MSD) samples were requested for this SDG.

The associated Laboratory Control Samples, prepared and analyzed along with these samples, met all accuracy and precision criteria.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and in the computer-readable data submitted electronically has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

S. A Parikh

Saroj A. Parikh
Data Reviewer
June 01, 2010

Manual Integrations											
SDG: 160513I											
				Samples							
	SBLCS	SBMSD	-01	-05	-04						
Compound											
Naphthalene											
2-Methylnaphthalene			✓	✓	✓						
1-Methylnaphthalene											
Acenaphthylene											
Acenaphthene											
Fluorene											
Phenanthrene											
Anthracene											
Fluoranthene											
Pyrene											
Benzo(a)anthracene											
Chrysene											
Benzo(b)fluoranthene											
Benzo(k)fluoranthene											
Benzo(a)pyrene											
Indeno(1,2,3-cd)pyrene	✓	✓									
Dibenzo(a,h)anthracene											
Benzo(g,h,i)perylene											
1,4-Dichlorobenzene-d4											
Naphthalene-d8											
Acenaphthene-d10											
Phenanthrene-d10											
Chrysene-d12											
Perylene-d12											
2-Fluorophenol											
Phenol-d5											
Nitrobenzene-d5											
2,4,6-Tribromophenol											
2-Fluorobiphenyl											
Terphenyl-d14											
"X" Denotes a manual integration for the compound											

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005131

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
	Restek	clpest	0.32	0.5	30
	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
X	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 22

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Revision 6 (12/6/2005)

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥85% in the SOM01.1 SOW), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations (responses in the SOM01.1 SOW) exceed the upper level of the calibration range (exceed the response of the high ICAL standard in the SOM01.1 SOW) of the instrument for that specific analysis. If one or more compounds have a response greater than the upper level of the calibration range (greater than the response of the highest ICAL standard in the SOM01.1 SOW), the sample or extract will be diluted and reanalyzed. All such compounds with a response greater than the upper level of the calibration range (with responses greater than the response of the highest ICAL standard in the SOM01.1 SOW) will have the concentration (result in the SOM01.1 SOW) flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration (response in the SOM01.1 SOW) of an analyte exceeds the upper calibration range (exceeds the response of the highest ICAL standard in the SOM01.1 SOW), the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.1 SOW, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24770

CHAIN OF CUSTODY

Page 1 of 1

51

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

2-02

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, Ste 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis (Method Number)

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (Shaw List)	TCL Pest. (8081A) (2-AL)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B)	Chromium VI (7196A) (1-125ml)	Grain Size (1-8oz.)		Grain size			Sample Int. (Lab Use)
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X						<2
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X		1005209-02			
-13	BBG-SS48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X				-03	
1005129-12	BBG-SS52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X				-04	
-13	BBG-SS57-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X				-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? Y or N If yes, where? Grain size to GT LABS	Custody Seal(s) intact? Y or N	On Ice? Y or N	Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

24773

Residual Chlorine Present? Yes ____ No ✓

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

52

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: S Forker / RDH

Project Information

Project Name: GTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrices
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	6010B 500 mL	7196A 125 mL	8081A 2AL	8270C 2AL	Matrix
1005131-02	BBG-EB051310-SB	5-13-10	1200	QC-W	6			1				X	X	X	X	W
-03	BBG-FB051310	5-13-10	1220	QC-W	6			1				X	X	X	X	W

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Custody

Relinquished by: S Forker	Date/Time: 5-13-10/ 1530	Received by: Diane Byrd	Date/Time: 5.14.10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN005

24780

CHAIN OF CUSTODY

Page 1 of 1

53

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: Va Beach State: VA Zip: 23462
Project Contact: Rebakha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogus

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMP LEJEUNE
Turnaround time: PER Contract
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (include method and container)

Matrices
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem No (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Tot Metals (1-500ml) 6010B	Tot Chromium 6010B	Chromium VI (1-125ml) 7196A	Surr PAH (2-AL) 8270C	TCL Pest (2-AL) 8081A	Grain Size ASTM D422	Tot Metals Preservation
1005131-04	BBG-FB051810	5.18	1200	RI	6			1				X		X	X	X		<2
05	BBG-EB051810-SS	5.18	1205	RI	6			1				X		X	X	X		<2

Residual Chlorine Present?
Yes ____ No ✓

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

Sample Custody

Relinquished by:	Date/Time: 5-18-10 1420	Received by: K. Manning	Date/Time: 5.19.10 0905
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or N If yes, where?
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 1.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-01	EB051210-SS	05/12/2010	05/13/2010	06/01/2010	BBG-EB051210-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-01	EB051210-SS	05/12/2010	05/13/2010	06/08/2010	BBG-EB051210-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-02	EB051310-SB	05/13/2010	05/14/2010	06/01/2010	BBG-EB051310-SB
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-02	EB051310-SB	05/13/2010	05/14/2010	06/08/2010	BBG-EB051310-SB
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-03	BBG-FB051310	05/13/2010	05/14/2010	06/01/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-03	BBG-FB051310	05/13/2010	05/14/2010	06/08/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-04	BBG-FB051810	05/18/2010	05/19/2010	06/01/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-04	BBG-FB051810	05/18/2010	05/19/2010	06/08/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-05	EB051810-SS	05/18/2010	05/19/2010	06/01/2010	BBG-EB051810-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-05	EB051810-SS	05/18/2010	05/19/2010	06/08/2010	BBG-EB051810-SS

WORK ORDER

Printed: 6/1/2010 4:52:44PM

1005131

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005131** **CASE:**	**Status:**	**[Group]**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/08/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/19/2010 09:05

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 21:57

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*LCS/LCSD*NOTE SAMPLING DATE*SIM 8270C=PAH.SUB*PEST 8081A* TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & ED

Analysis	Due	TAT	Expires	Received	Comments
1005131-01 EB051210-SS [Water] Sampled 05/12/2010 10:30 Eastern				**EQUIP.BLK**	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/08/2010 10:30	05/13/2010 09:30	
6010B METALS TAL	06/08/2010 16:00	20	11/08/2010 10:30	05/13/2010 09:30	
GC-8081A/PEST	06/08/2010 16:00	20	05/19/2010 10:30	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/19/2010 10:30	05/13/2010 09:30	SubList = SVsim- PAH
7470A/7471A Mercury	06/08/2010 16:00	20	06/09/2010 10:30	05/13/2010 09:30	
1005131-02 EB051310-SB [Water] Sampled 05/13/2010 12:00 Eastern				**EQUIP.BLK**	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/09/2010 12:00	05/14/2010 09:20	
6010B METALS TAL	06/08/2010 16:00	20	11/09/2010 12:00	05/14/2010 09:20	
GC-8081A/PEST	06/08/2010 16:00	20	05/20/2010 12:00	05/14/2010 09:20	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/10/2010 12:00	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/20/2010 12:00	05/14/2010 09:20	SubList = SVsim- PAH
1005131-03 BBG-FB051310 [Water] Sampled 05/13/2010 12:20 Eastern				**FIELD BLK**	
GC-8081A/PEST	06/08/2010 16:00	20	05/20/2010 12:20	05/14/2010 09:20	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/09/2010 12:20	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/20/2010 12:20	05/14/2010 09:20	SubList = SVsim- PAH
6010B METALS TAL	06/08/2010 16:00	20	11/09/2010 12:20	05/14/2010 09:20	
7470A/7471A Mercury	06/08/2010 16:00	20	06/10/2010 12:20	05/14/2010 09:20	

1005131

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DI**
SDG:	**1005131** **CASE:**	**Status:**	**Batched**

Analysis	Due	TAT	Expires		Comments
1005131-04 BBG-FB051810 [Water] Sampled 05/18/2010 12:00 Eastern					**FIELD BLK**
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/25/2010 12:00	05/19/2010 09:05	SubList = SVsim- PAH
GC-8081A/PEST	06/08/2010 16:00	20	05/25/2010 12:00	05/19/2010 09:05	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/15/2010 12:00	05/19/2010 09:05	
6010B METALS TAL	06/08/2010 16:00	20	11/14/2010 12:00	05/19/2010 09:05	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/14/2010 12:00	05/19/2010 09:05	
1005131-05 EB051810-SS [Water] Sampled 05/18/2010 12:05 Eastern					**EQUIP. BLK**
GC-8081A/PEST	06/08/2010 16:00	20	05/25/2010 12:05	05/19/2010 09:05	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/15/2010 12:05	05/19/2010 09:05	
6010B METALS TAL	06/08/2010 16:00	20	11/14/2010 12:05	05/19/2010 09:05	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/14/2010 12:05	05/19/2010 09:05	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/25/2010 12:05	05/19/2010 09:05	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

DEPT: EXTR 5-19-1 **DATE:** 5-19-10

BATCH: 0051905

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0051905-BLK1	SBLKBN		
2	0051905-BS1	SBNLCS		
3	0051905-BSD1	SBNLCSD		
4	1005131-01	EB051210-SS		
5	1005131-02	EB051310-SB		
6	1005131-03	BBG-FB051310		
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				

RELINQUISHED BY	DATE/TIME		REC. BY	REASON
~~B. Patton~~	5-19-10	1645	G.C. Ref. #3	Storage
GC/MSR3	5-23-10	1600	ars	Analysis
ars	5-23-10	1700	GC/MSR3	Storage
GCMS#3	5/24	0100	MW	analysis
MW	5/24	0300	GCMS#3	Storage
GCMS#3	5/25	700	DP	Analysis
MP	5/25	1100	GCMS#3	Storage

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

DEPT: EXTR **DATE:** 5-24-10

BATCH: 0052402

5-24-1

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0052402-BLK1	SBLKCB		
2	0052402-BS1	SCBLCS		
3	0052402-BSD1	SCBLCSD		
4	1005131-04	BBG-FB051810		
5	1005131-05	EB051810-SS		
6	1005158-01	AOC8-MW-35		
7	1005158-02	AOC8-MW-35D		
8	1005158-03	AOC8-MW-36		
9	1005158-04	ER051910		
10	1005158-05	AOC8-MW-37		
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
	RELINQUISHED BY	DATE/TIME	REC. BY	REASON
	[signature]	5/24/10 1455	GC/MS refrg #3	storage
	GMS#3	5/25 7W	DM	Analysis
	DM	5/25 (WW	GMS#3	Storage

Rev. 12/29/09:RM

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE: LIBRTY METHOD: 8270C

SDG # : 1005131

1. QC Summary

a. Surrogate Percent Recovery Summary (Form II SV)

b. Spike Summary - MS / MSD / LCS
(Form III SV)

c. Method Blank Summary (Form IV SV)

d. Internal Standard Area and RT Summary
(Form VIII SV)

a. Surrogate Percent Recovery Summary

(Form II SV)

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

	CLIENT SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBLKBN	76	86	131						0
02	SBNLCSD	67	78	101						0
03	SBNLCS	65	70	104						0
04	EB051210-SS	79	70	127						0
05	EB051310-SB	64	62	83						0
06	BBG-FB051310	64	59	70						0
07	SBLKCB	63	69	85						0
08	SCBLCSD	76	58	86						0
09	EB051810-SS	71	54	69						0
10	SCBLCS	73	83	83						0
11	BBG-FB051810	83	70	83						0
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(40-110)
S2 (FBP) = 2-Fluorobiphenyl	(50-110)
S3 (TPH) = Terphenyl-d14	(50-135)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

b. Spike Summary - MS / MSD / LCS
(Form III SV)

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

SBNLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix Spike - EPA Sample No.: SBNLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Naphthalene	0.5		0.3436	69	40-110
2-Methylnaphthalene	0.5		0.3776	76	45-105
Acenaphthylene	0.5		0.3468	69	50-105
Acenaphthene	0.5		0.3535	71	45-110
Fluorene	0.5		0.4462	89	50-110
Phenanthrene	0.5		0.4527	91	50-115
Anthracene	0.5		0.4377	88	55-110
Fluoranthene	0.5		0.5205	104	55-115
Pyrene	0.5		0.5056	101	50-130
Benzo(a)anthracene	0.5		0.4599	92	45-120
Chrysene	0.5		0.5174	103	55-110
Benzo(b)fluoranthene	0.5		0.4089	82	45-120
Benzo(k)fluoranthene	0.5		0.5531	111	45-125
Benzo(a)pyrene	0.5		0.415	83	55-110
Indeno(1,2,3-cd)pyrene	0.5		0.4141	83	45-125
Dibenzo(a,h)anthracene	0.5		0.4616	92	40-125
Benzo(g,h,i)perylene	0.5		0.4943	99	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

SBNLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix Spike - EPA Sample No.: SBNLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	0.5	0.3436	69	0	30	40-110
2-Methylnaphthalene	0.5	0.4337	87	13	30	45-105
Acenaphthylene	0.5	0.3417	68	1	30	50-105
Acenaphthene	0.5	0.3513	70	1	30	45-110
Fluorene	0.5	0.4929	99	11	30	50-110
Phenanthrene	0.5	0.4553	91	0	30	50-115
Anthracene	0.5	0.396	79	11	30	55-110
Fluoranthene	0.5	0.5021	100	4	30	55-115
Pyrene	0.5	0.4898	98	3	30	50-130
Benzo(a)anthracene	0.5	0.4378	88	4	30	45-120
Chrysene	0.5	0.5259	105	2	30	55-110
Benzo(b)fluoranthene	0.5	0.3933	79	4	30	45-120
Benzo(k)fluoranthene	0.5	0.5403	108	3	30	45-125
Benzo(a)pyrene	0.5	0.4159	83	0	30	55-110
Indeno(1,2,3-cd)pyrene	0.5	0.439	88	6	30	45-125
Dibenzo(a,h)anthracene	0.5	0.4965	99	7	30	40-125
Benzo(g,h,i)perylene	0.5	0.5581	112	12	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

SCBLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix Spike - EPA Sample No.: SCBLCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Naphthalene	0.5		0.3853	77	40-110
2-Methylnaphthalene	0.5		0.3529	71	45-105
Acenaphthylene	0.5		0.3696	74	50-105
Acenaphthene	0.5		0.3794	76	45-110
Fluorene	0.5		0.3423	68	50-110
Phenanthrene	0.5		0.4	80	50-115
Anthracene	0.5		0.4045	81	55-110
Fluoranthene	0.5		0.4097	82	55-115
Pyrene	0.5		0.3992	80	50-130
Benzo(a)anthracene	0.5		0.4565	91	45-120
Chrysene	0.5		0.4629	93	55-110
Benzo(b)fluoranthene	0.5		0.4234	85	45-120
Benzo(k)fluoranthene	0.5		0.4426	89	45-125
Benzo(a)pyrene	0.5		0.433	87	55-110
Indeno(1,2,3-cd)pyrene	0.5		0.4081	82	45-125
Dibenzo(a,h)anthracene	0.5		0.424	85	40-125
Benzo(g,h,i)perylene	0.5		0.4085	82	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

3C
WATER SEMIVOLATILE LAB CONTROL SAMPLE

SCBLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix Spike - EPA Sample No.: SCBLCS

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	0.5	0.3854	77	0	30	40-110
2-Methylnaphthalene	0.5	0.3746	75	5	30	45-105
Acenaphthylene	0.5	0.389	78	5	30	50-105
Acenaphthene	0.5	0.3981	80	5	30	45-110
Fluorene	0.5	0.3737	75	10	30	50-110
Phenanthrene	0.5	0.4265	85	6	30	50-115
Anthracene	0.5	0.4108	82	1	30	55-110
Fluoranthene	0.5	0.4207	84	2	30	55-115
Pyrene	0.5	0.4034	81	1	30	50-130
Benzo(a)anthracene	0.5	0.4213	84	8	30	45-120
Chrysene	0.5	0.4492	90	3	30	55-110
Benzo(b)fluoranthene	0.5	0.4377	88	3	30	45-120
Benzo(k)fluoranthene	0.5	0.3881	78	13	30	45-125
Benzo(a)pyrene	0.5	0.4062	81	7	30	55-110
Indeno(1,2,3-cd)pyrene	0.5	0.4056	81	1	30	45-125
Dibenzo(a,h)anthracene	0.5	0.4247	85	0	30	40-125
Benzo(g,h,i)perylene	0.5	0.4271	85	4	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV SV)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKBN

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID: 0051905-BLK1A66 Lab Sample ID: 0051905-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/19/10

Matrix: (soil/water) WATER Date Analyzed: 05/24/10

Level:(low/med) LOW Time Analyzed: 1226

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBNLCSD	0051905-BSD1	0051905-BSD1	05/24/10
02	SBNLCS	0051905-BS1	0051905-BS1J	05/24/10
03	EB051210-SS	1005131-01	1005131-01JA	05/24/10
04	EB051310-SB	1005131-02	1005131-02JC	05/25/10
05	BBG-FB051310	1005131-03	1005131-03J2	05/25/10
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKCB

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID: 0052402-BLK1C66 Lab Sample ID: 0052402-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/24/10

Matrix: (soil/water) WATER Date Analyzed: 05/25/10

Level: (low/med) LOW Time Analyzed: 1046

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SCBLCSD	0052402-BSD1	0052402-BSD1	05/25/10
02	EB051810-SS	1005131-05	1005131-05C6	05/25/10
03	SCBLCS	0052402-BS1	0052402-BS1J	05/25/10
04	BBG-FB051810	1005131-04	1005131-04J2	05/26/10
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

d. Internal Standard Area and RT Summary (Form VIII SV)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E24006-CCV1A66 Date Analyzed: 05/24/10

Instrument ID: 5972HP66 Time Analyzed: 1152

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	40910	19.34	33120	21.96	29379	5.57
	UPPER LIMIT	81820	19.84	66240	22.46	58758	6.07
	LOWER LIMIT	20455	18.84	16560	21.46	14689	5.07
	CLIENT SAMPLE NO.						
01	SBLKBN	37475	19.34	35401	21.96	31733	5.56
02	SBNLCSD	25076	19.34	24476	21.96	32049	5.56
03	SBNLCS	59219	19.34	48759	21.96	45695	5.57
04	EB051210-SS	29313	19.34	24319	21.96	34442	5.57
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E24006-CCV1A66 Date Analyzed: 05/24/10

Instrument ID: 5972HP66 Time Analyzed: 1152

		IS4(NPT) AREA	#	RT	#	IS5(ANT) AREA	#	RT	#	IS6(PHN) AREA	#	RT	#
	12 HOUR STD	78737		7.81		25566		11.23		46661		14.10	
	UPPER LIMIT	157474		8.31		51132		11.73		93322		14.60	
	LOWER LIMIT	39369		7.31		12783		10.73		23331		13.60	
	CLIENT SAMPLE NO.												
01	SBLKBN	98870		7.81		34048		11.23		51515		14.10	
02	SBNLCSD	89502		7.81		26289		11.23		36306		14.10	
03	SBNLCS	140298		7.81		49353		11.23		82039		14.10	
04	EB051210-SS	98527		7.81		34196		11.23		49102		14.10	
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E25001-CAL3C66 Date Analyzed: 05/25/10

Instrument ID: 5972HP66 Time Analyzed: 0601

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	75031	19.32	62246	21.95	37182	5.55
	UPPER LIMIT	150062	19.82	124492	22.45	74364	6.05
	LOWER LIMIT	37515	18.82	31123	21.45	18591	5.05
	CLIENT SAMPLE NO.						
01	EB051310-SB	86966	19.32	79301	21.95	44507	5.54
02	BBG-FB051310	143424	19.32	118208	21.94	51974	5.54
03	SBLKCB	58164	19.32	54659	21.94	34149	5.55
04	SCBLCSD	63541	19.32	59818	21.94	26848	5.54
05	EB051810-SS	113370	19.32	104105	21.95	39737	5.54
06	SCBLCS	128243	19.33	115730	21.95	47982	5.56
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E25001-CAL3C66 Date Analyzed: 05/25/10

Instrument ID: 5972HP66 Time Analyzed: 0601

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	125435	7.80	56129	11.22	92434	14.09
	UPPER LIMIT	250870	8.30	112258	11.72	184868	14.59
	LOWER LIMIT	62717	7.30	28065	10.72	46217	13.59
	CLIENT SAMPLE NO.						
01	EB051310-SB	149596	7.80	64528	11.22	104515	14.09
02	BBG-FB051310	182151	7.80	84590	11.22	160170	14.09
03	SBLKCB	110315	7.79	44002	11.22	69551	14.09
04	SCBLCSD	93250	7.79	41267	11.22	70526	14.09
05	EB051810-SS	140730	7.80	63014	11.22	114114	14.09
06	SCBLCS	171994	7.80	79674	11.22	143635	14.09
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E26002-CCV1C66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 0611

		IS1(CRY) AREA	#	RT	#	IS2(PRY) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	157952		19.34		126573		21.96		41032		5.56	
	UPPER LIMIT	315904		19.84		253146		22.46		82064		6.06	
	LOWER LIMIT	78976		18.84		63287		21.46		20516		5.06	
	CLIENT SAMPLE NO.												
01	BBG-FB051810	171532		19.34		127973		21.96		44702		5.56	
02													
03													
04													
05													
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Lab File ID (Standard): 0E26002-CCV1C66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 0611

		IS4(NPT)		IS5(ANT)		IS6(PHN)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	146916	7.80	68609	11.23	134040	14.10
	UPPER LIMIT	293832	8.30	137218	11.73	268080	14.60
	LOWER LIMIT	73458	7.30	34305	10.73	67020	13.60
	CLIENT SAMPLE NO.						
01	BBG-FB051810	159150	7.80	73421	11.23	148845	14.10
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I SV), followed by the raw data for semivolatile samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results (Form I SV)

Tabulated results (identification and quantitation) shall be included.

b. Chromatograms

Include for each sample or sample extract, including dilutions and reanalyses. The chromatogram shall contain the following header information: Client Sample ID number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.

c. Quantitation Report showing calculations for target analytes

- Include a printout of the Enhanced Ion Current Profile (EICP) for all manual changes to the compounds, internal standard, and/or surrogate compound.

d. Copies of raw spectra and copies of background-subtracted mass spectra of target analytes identified in the sample.

- The spectra shall include the following information: Client Sample ID number, Lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: Lab Project Number:
Client SDG No: 1005131 Method: 8270C-SIM
Client Sample ID: BBG-FB051310 Date Collected: 05/13/10

Lab Sample ID: 1005131-03 Date Received: 05/14/10
Sample wt/vol: 950 (g/mL) ML Lab File ID: 1005131-03J2C66
Level: (low/med) LOW Analyst: 2743

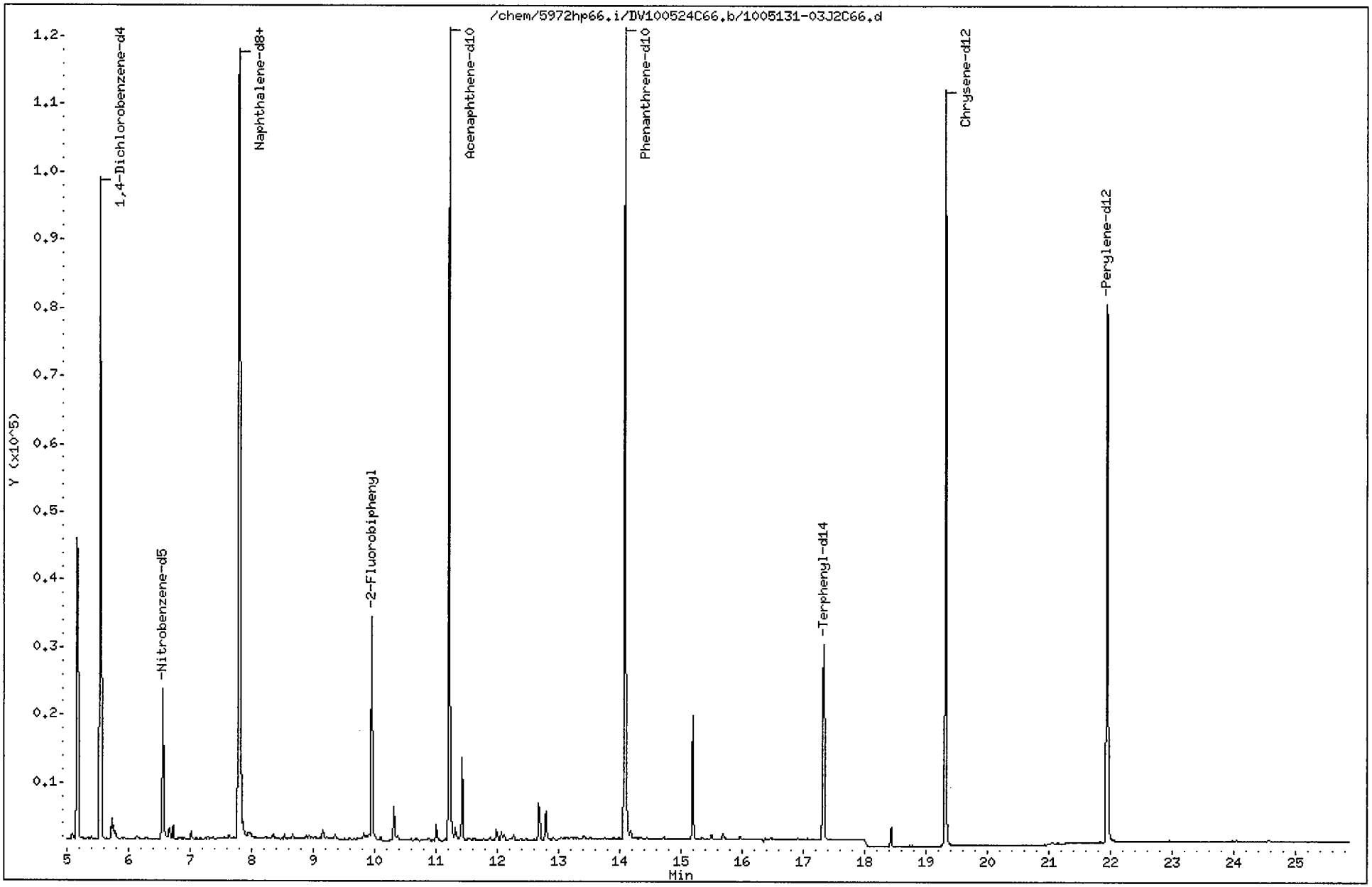
% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/19/10
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/10
Injection Volume: 2.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0051905-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.21	0.058	J
91-57-6	2-Methylnaphthalene	0.016	0.21	ND	U
208-96-8	Acenaphthylene	0.011	0.21	ND	U
83-32-9	Acenaphthene	0.037	0.21	ND	U
86-73-7	Fluorene	0.047	0.21	ND	U
85-01-8	Phenanthrene	0.037	0.21	ND	U
120-12-7	Anthracene	0.021	0.21	ND	U
206-44-0	Fluoranthene	0.011	0.21	ND	U
129-00-0	Pyrene	0.011	0.21	ND	U
56-55-3	Benzo(a)anthracene	0.021	0.21	ND	U
218-01-9	Chrysene	0.016	0.21	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.21	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.21	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.21	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.21	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.21	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.21	ND	U

ND = Not Detected
Q = Qualifier

Data File: /chem/5972hp66.i/DV100524C66.b/1005131-03J2C66.d
Date : 25-MAY-2010 10:13
Client ID: BBG-FB051310
Sample Info: 1005131-03:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/1005131-03J2C66.d
Report Date: 01-Jun-2010 15:50

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/1005131-03J2C66.d
Lab Smp Id: 1005131-03 Client Smp ID: BBG-FB051310
Inj Date : 25-MAY-2010 10:13
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005131-03:2743
Misc Info : BBG-FB051310
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 15:47 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	950.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	51974	2.00000	
* 2 Naphthalene-d8	136	7.799	7.802	(1.000)	182151	2.00000	
* 3 Acenaphthene-d10	164	11.217	11.218	(1.000)	84590	2.00000	
* 4 Phenanthrene-d10	188	14.087	14.087	(1.000)	160170	2.00000	
* 5 Chrysene-d12	240	19.319	19.319	(1.000)	143424	2.00000	
* 6 Perylene-d12	264	21.939	21.949	(1.000)	118208	2.00000	
$ 9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	26000	0.64147	0.34
$ 10 2-Fluorobiphenyl	172	9.950	9.952	(0.887)	51976	0.58882	0.31
$ 12 Terphenyl-d14	244	17.334	17.333	(0.897)	36667	0.70362	0.37
13 Naphthalene	128	7.825	7.828	(1.003)	12394	0.11000	0.058(a)
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					

Data File: /chem/5972hp66.i/DV100524C66.b/1005131-03J2C66.d
Report Date: 01-Jun-2010 15:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DV100524C66.b/1005131-03J2C66.d

Date : 25-MAY-2010 10:13

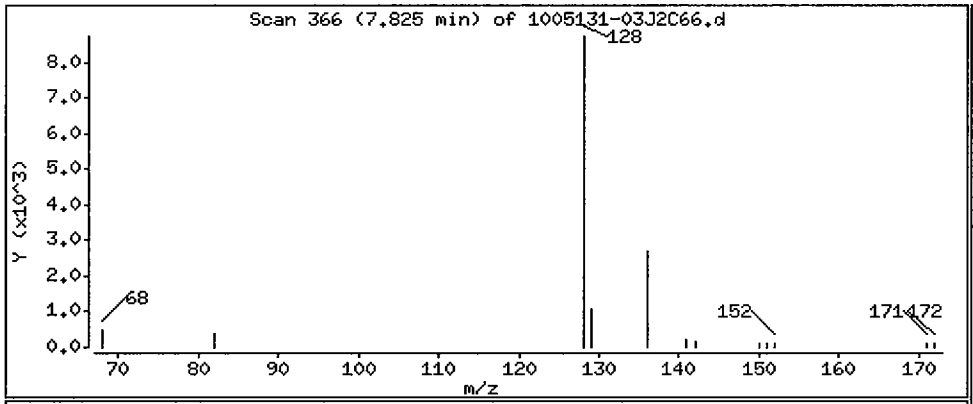
Client ID: BBG-FB051310 Instrument: 5972hp66.i

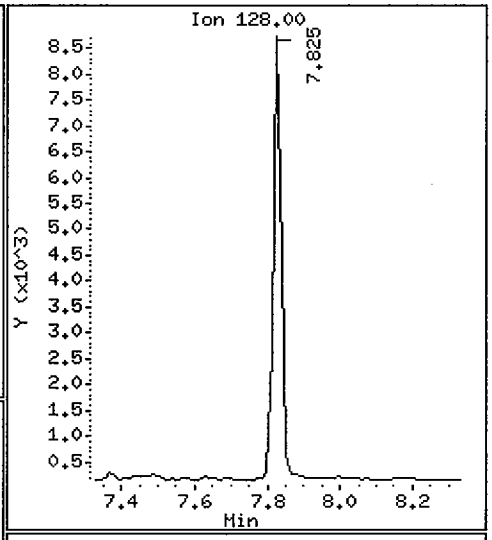
Sample Info: 1005131-03:2743

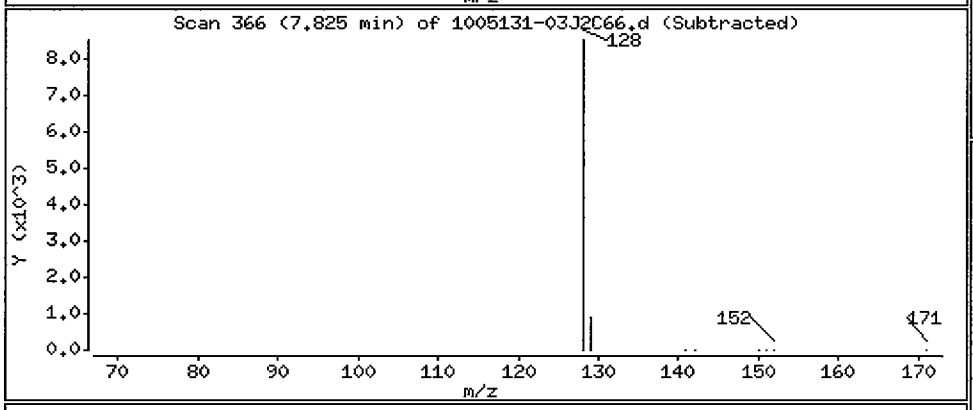
Volume Injected (uL): 2.0 Operator: 2743

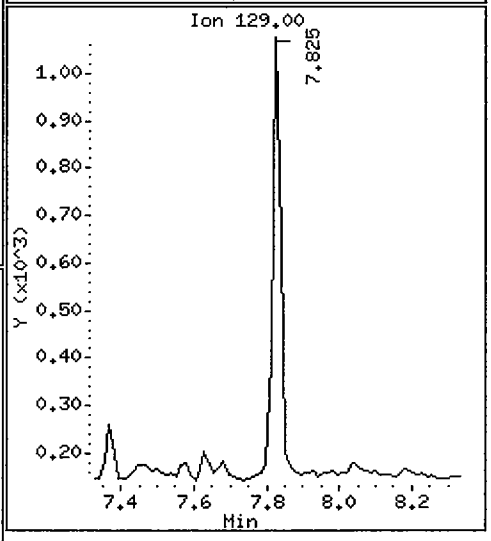
Column phase: Rtx-5MS Column diameter: 0.32

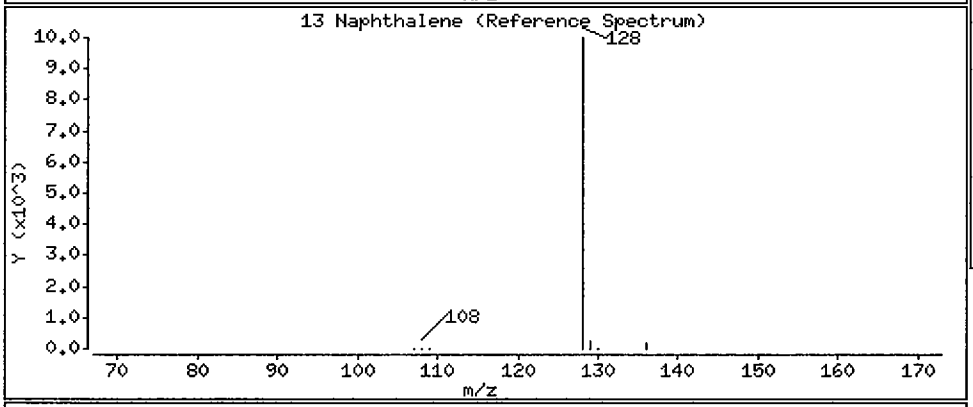
13 Naphthalene Concentration: 0.058 ug/L

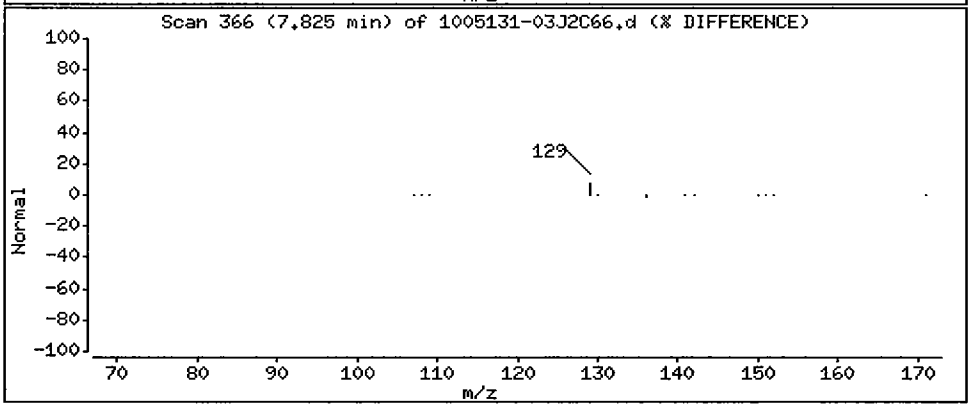












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: | Lab Project Number:
Client SDG No: 1005131 | Method: 8270C-SIM
Client Sample ID: BBG-FB051810 | Date Collected: 05/18/10

Lab Sample ID: 1005131-04 | Date Received: 05/19/10
Sample wt/vol: 925 (g/mL) ML | Lab File ID: 1005131-04J2C66
Level: (low/med) LOW | Analyst: 2743

% Moisture: _____ decanted: (Y/N)___ | Date Extracted: 05/24/10
Concentrated Extract Volume: 1000(uL) | Date Analyzed: 05/26/10
Injection Volume: 2.0(uL) | Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0052402-BLK1

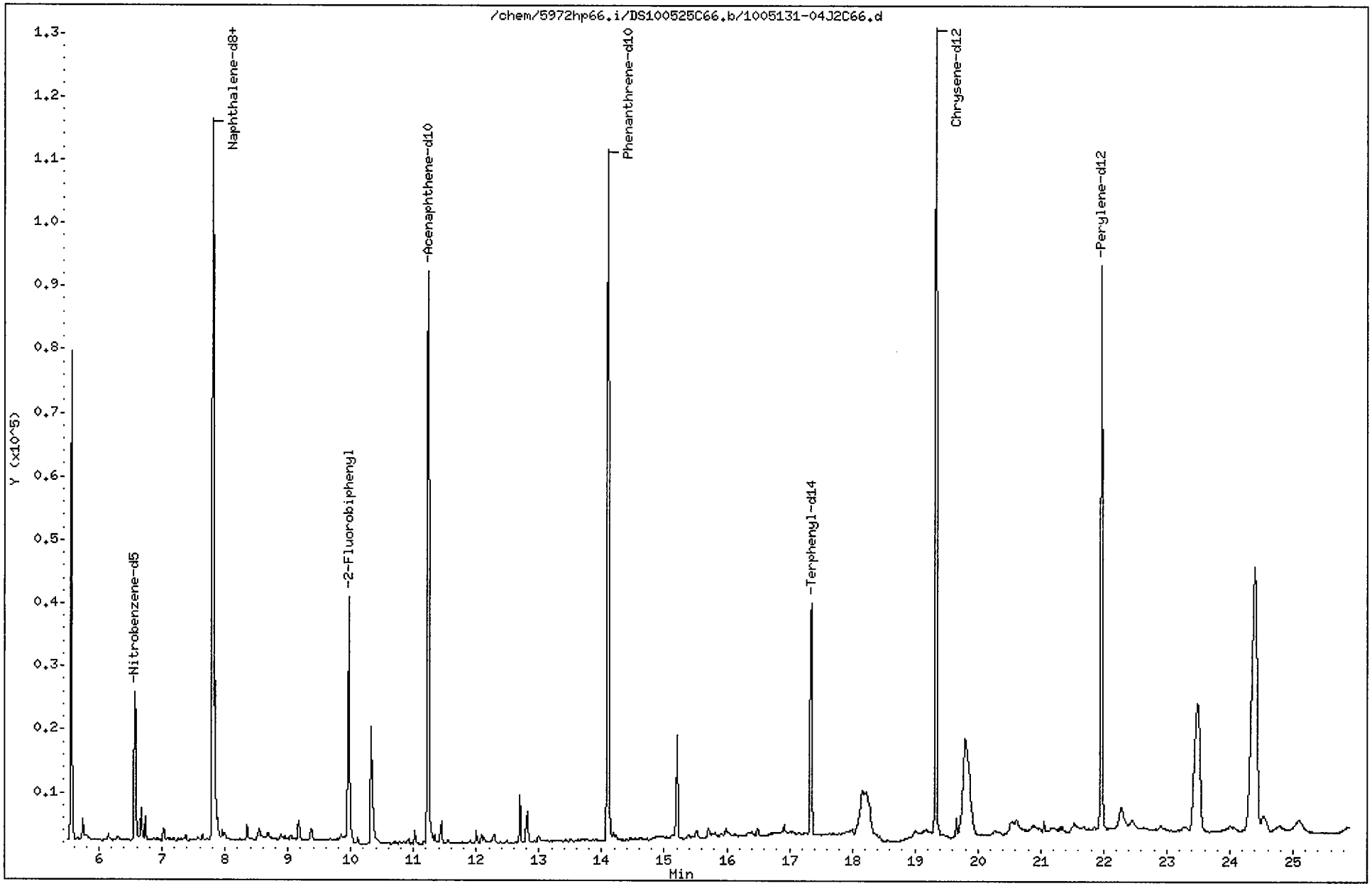
CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.032	0.22	0.16	J
91-57-6	2-Methylnaphthalene	0.016	0.22	0.021	J
208-96-8	Acenaphthylene	0.011	0.22	ND	U
83-32-9	Acenaphthene	0.038	0.22	ND	U
86-73-7	Fluorene	0.049	0.22	ND	U
85-01-8	Phenanthrene	0.038	0.22	ND	U
120-12-7	Anthracene	0.022	0.22	ND	U
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.016	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DS100525C66.b/1005131-04J2C66.d
Date : 26-MAY-2010 09:37
Client ID: BBG-FB051810
Sample Info: 1005131-04:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/1005131-04J2C66.d
Report Date: 01-Jun-2010 17:52

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/1005131-04J2C66.d
Lab Smp Id: 1005131-04 Client Smp ID: BBG-FB051810
Inj Date : 26-MAY-2010 09:37
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005131-04:2743
Misc Info : BBG-FB051810
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 17:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	925.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.560	5.560	(1.000)	44702	2.00000	
* 2 Naphthalene-d8	136	7.802	7.802	(1.000)	159150	2.00000	
* 3 Acenaphthene-d10	164	11.231	11.231	(1.000)	73421	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	148845	2.00000	
* 5 Chrysene-d12	240	19.336	19.336	(1.000)	171532	2.00000	
* 6 Perylene-d12	264	21.961	21.961	(1.000)	127973	2.00000	
$ 9 Nitrobenzene-d5	82	6.564	6.563	(0.841)	29538	0.83408	0.45
$ 10 2-Fluorobiphenyl	172	9.966	9.966	(0.887)	53603	0.69963	0.38
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	51562	0.82731	0.45
13 Naphthalene	128	7.841	7.841	(1.005)	30049	0.30525	0.16(a)
15 2-Methylnaphthalene	141	9.171	9.170	(0.817)	2034	0.03869	0.021(aM)
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					

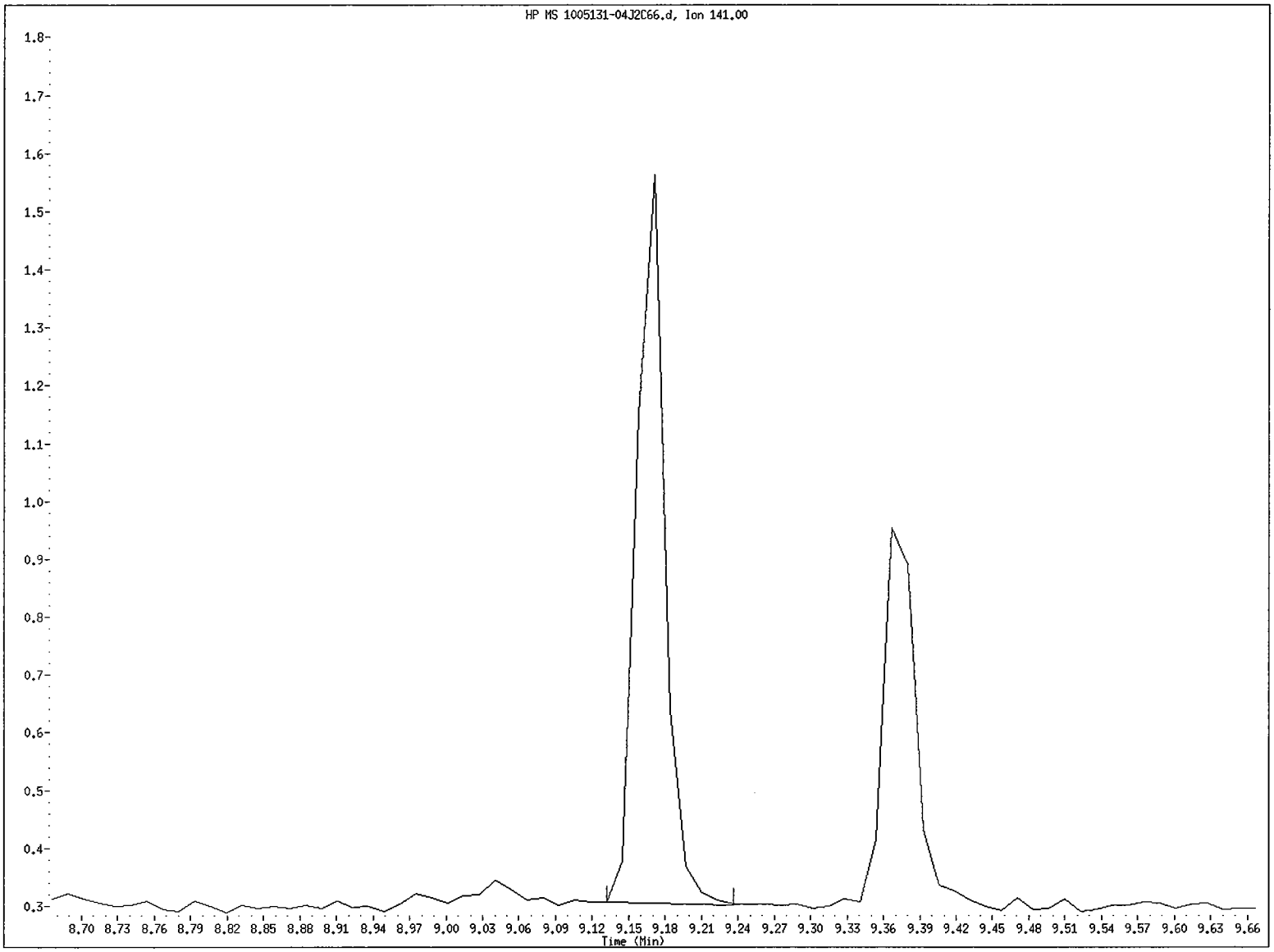
Data File: /chem/5972hp66.i/DS100525C66.b/1005131-04J2C66.d
Report Date: 01-Jun-2010 17:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

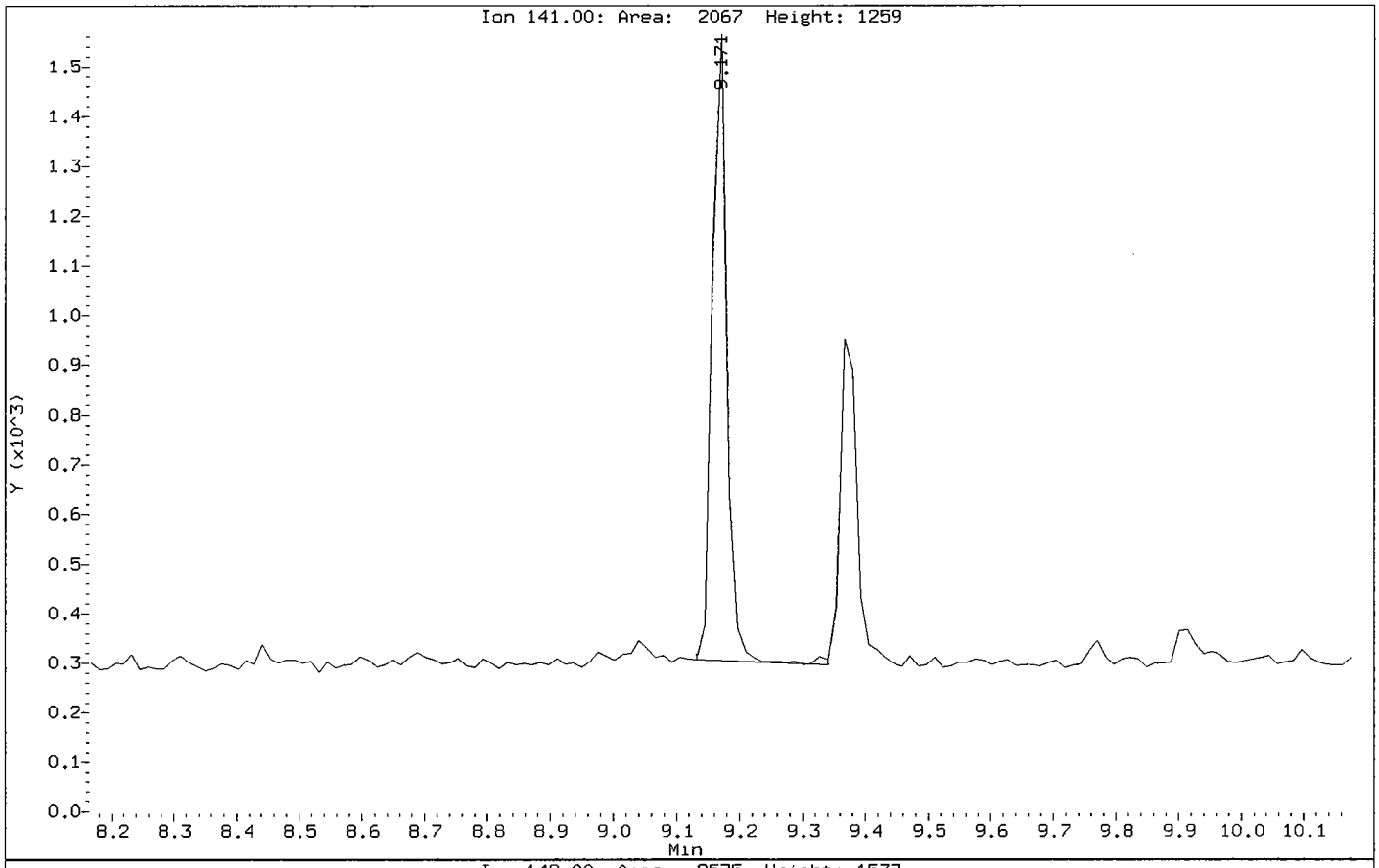
2-Methylnaphthalene CAS Number 91-57-6 Area = 2034 Manually integrated

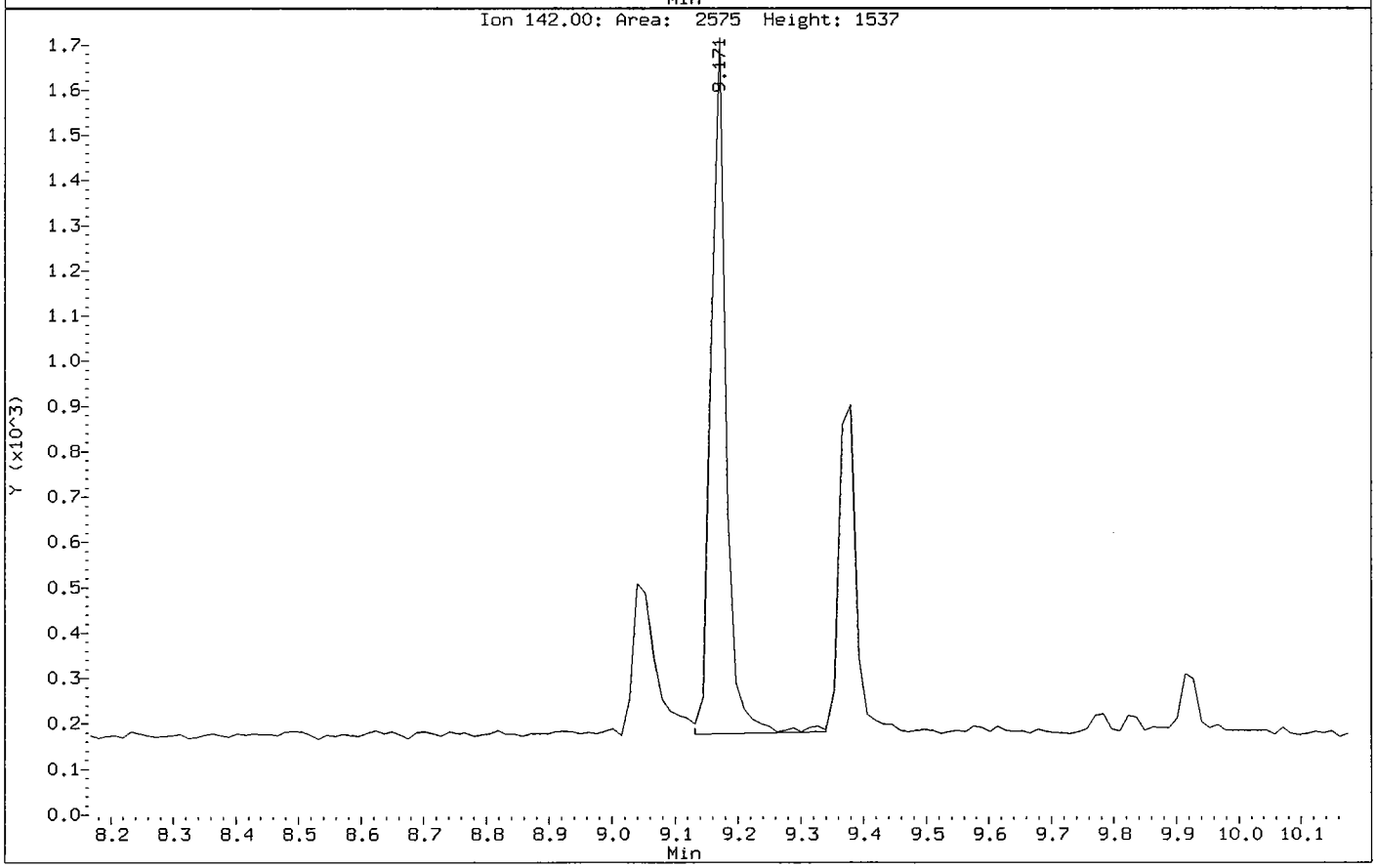


File name: /chem/5972hp66.i/DS100525C66.b/1005131-04J2C66.d
Client ID: BBG-FB051810
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 09:37
Retention Time: 9.17
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100525C66.b/1005131-04J2C66.d
Injection Date: 26-MAY-2010 09:37
Instrument: 5972hp66.i
Client Sample ID: BBG-FB051810

Compound: 2-Methylnaphthalene
CAS Number: 91-57-6





Data File: /chem/5972hp66.i/DS100525C66.b/1005131-04J2C66.d

Date : 26-MAY-2010 09:37

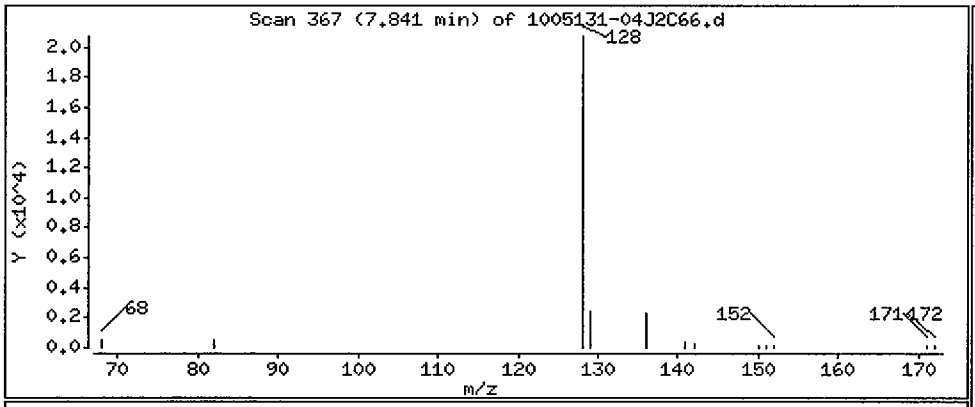
Client ID: BBG-FB051810 Instrument: 5972hp66.i

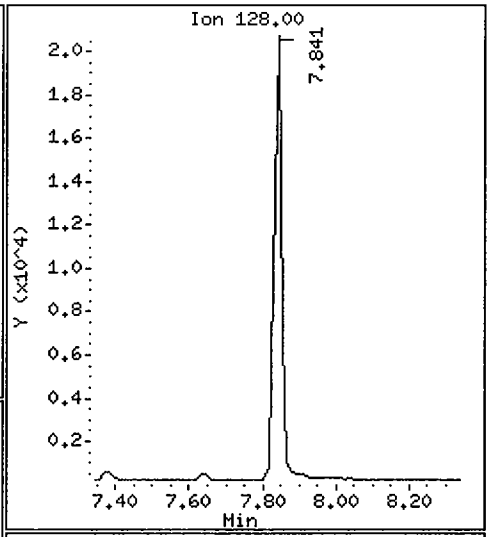
Sample Info: 1005131-04:2743

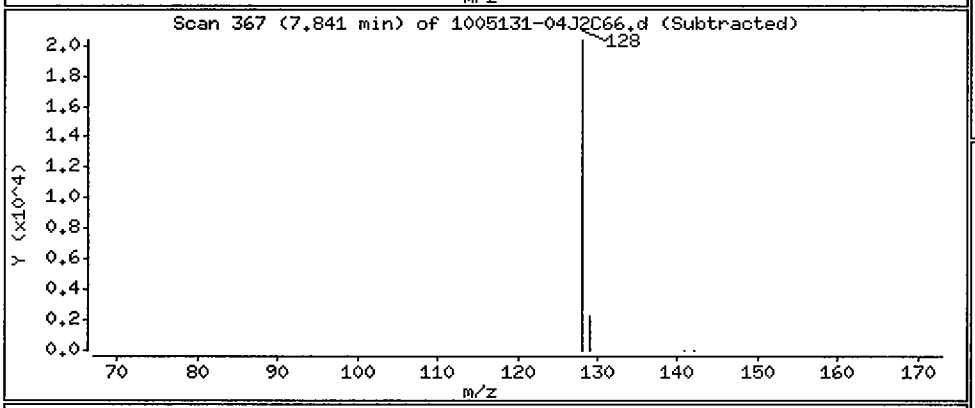
Volume Injected (uL): 2.0 Operator: 2743

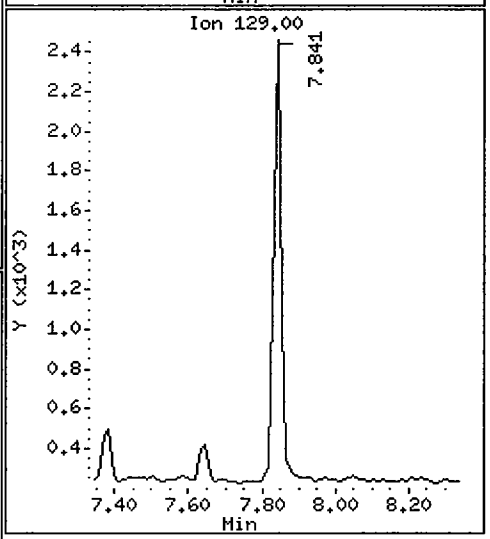
Column phase: Rtx-5MS Column diameter: 0.32

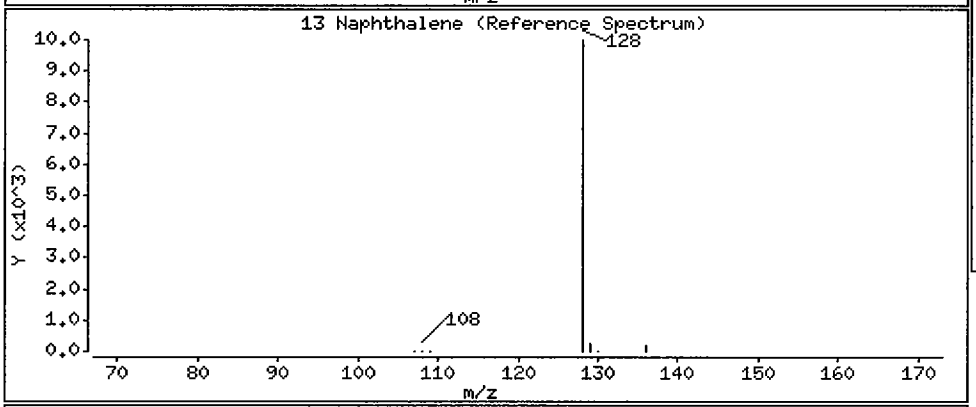
13 Naphthalene Concentration: 0.16 ug/L

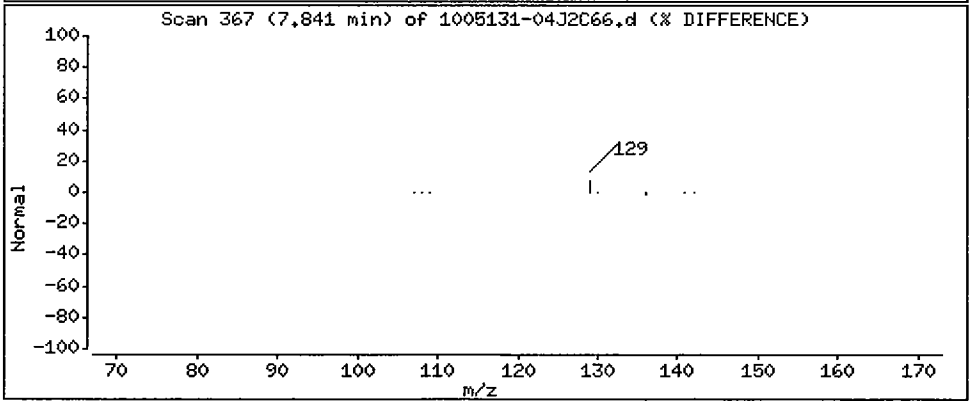












Data File: /chem/5972hp66.i/DS100525C66.b/1005131-04J2C66.d

Date : 26-MAY-2010 09:37

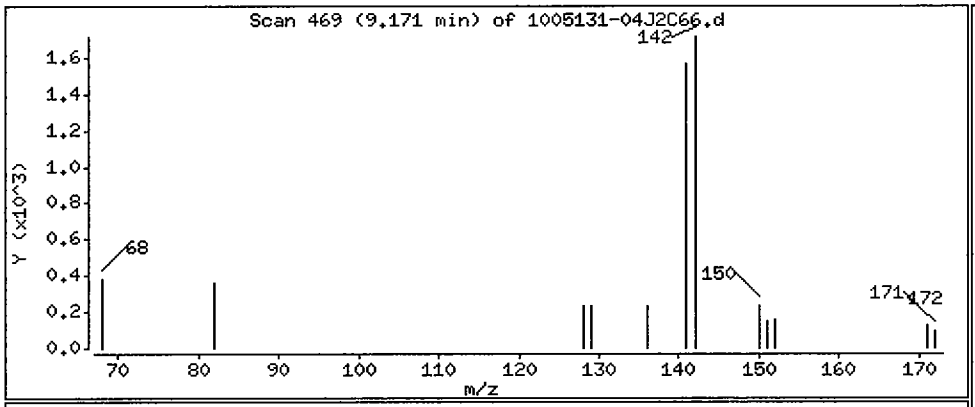
Client ID: BBG-FB051810 Instrument: 5972hp66.i

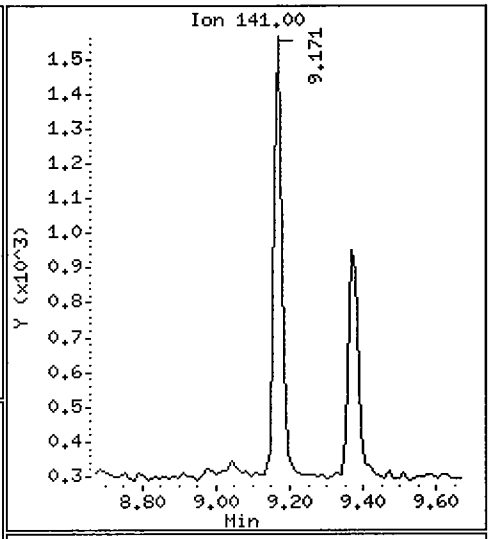
Sample Info: 1005131-04:2743

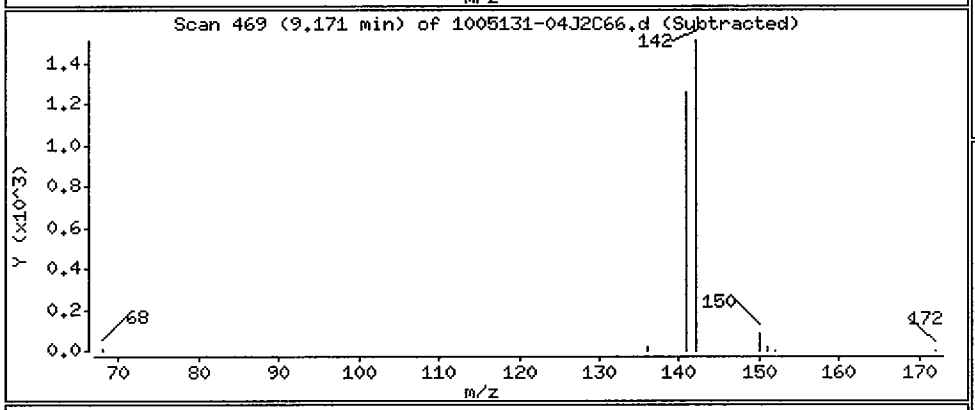
Volume Injected (uL): 2.0 Operator: 2743

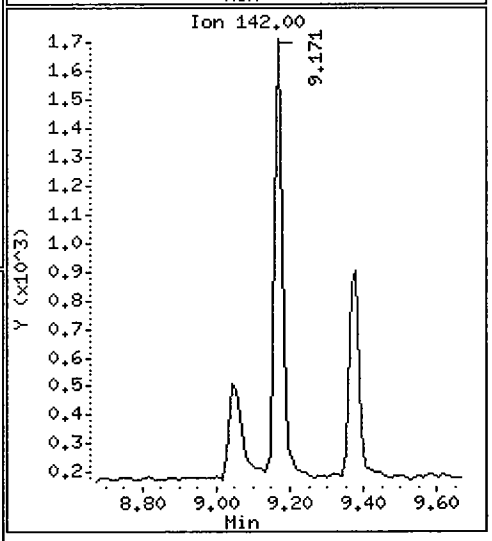
Column phase: Rtx-5MS Column diameter: 0.32

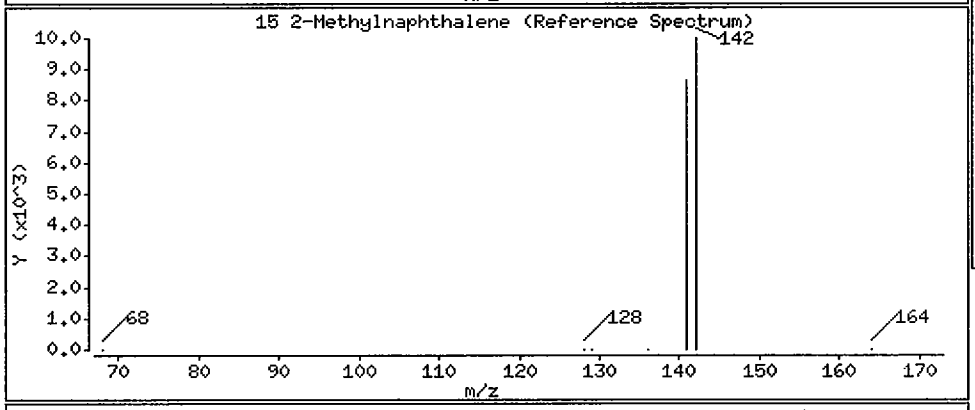
15 2-Methylnaphthalene Concentration: 0.021 ug/L

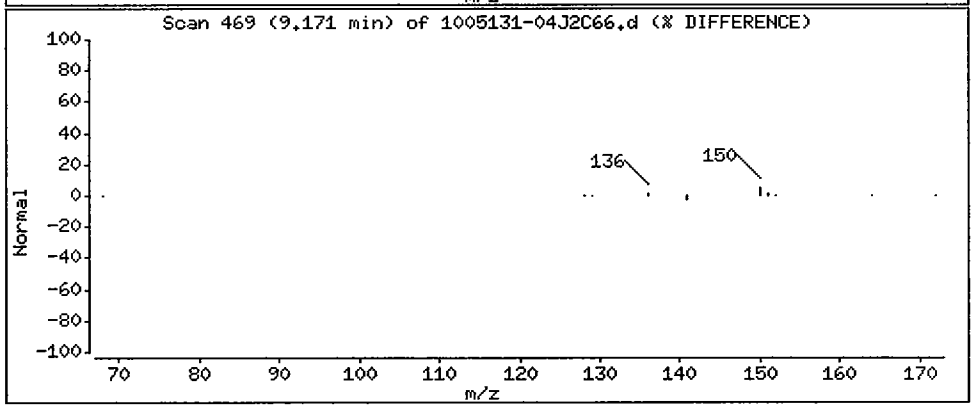












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: | Lab Project Number:
Client SDG No: 1005131 | Method: 8270C-SIM
Client Sample ID: EB051210-SS | Date Collected: 05/12/10

Lab Sample ID: 1005131-01 | Date Received: 05/13/10
Sample wt/vol: 1000 (g/mL) ML | Lab File ID: 1005131-01JA66
Level: (low/med) LOW | Analyst: 2650

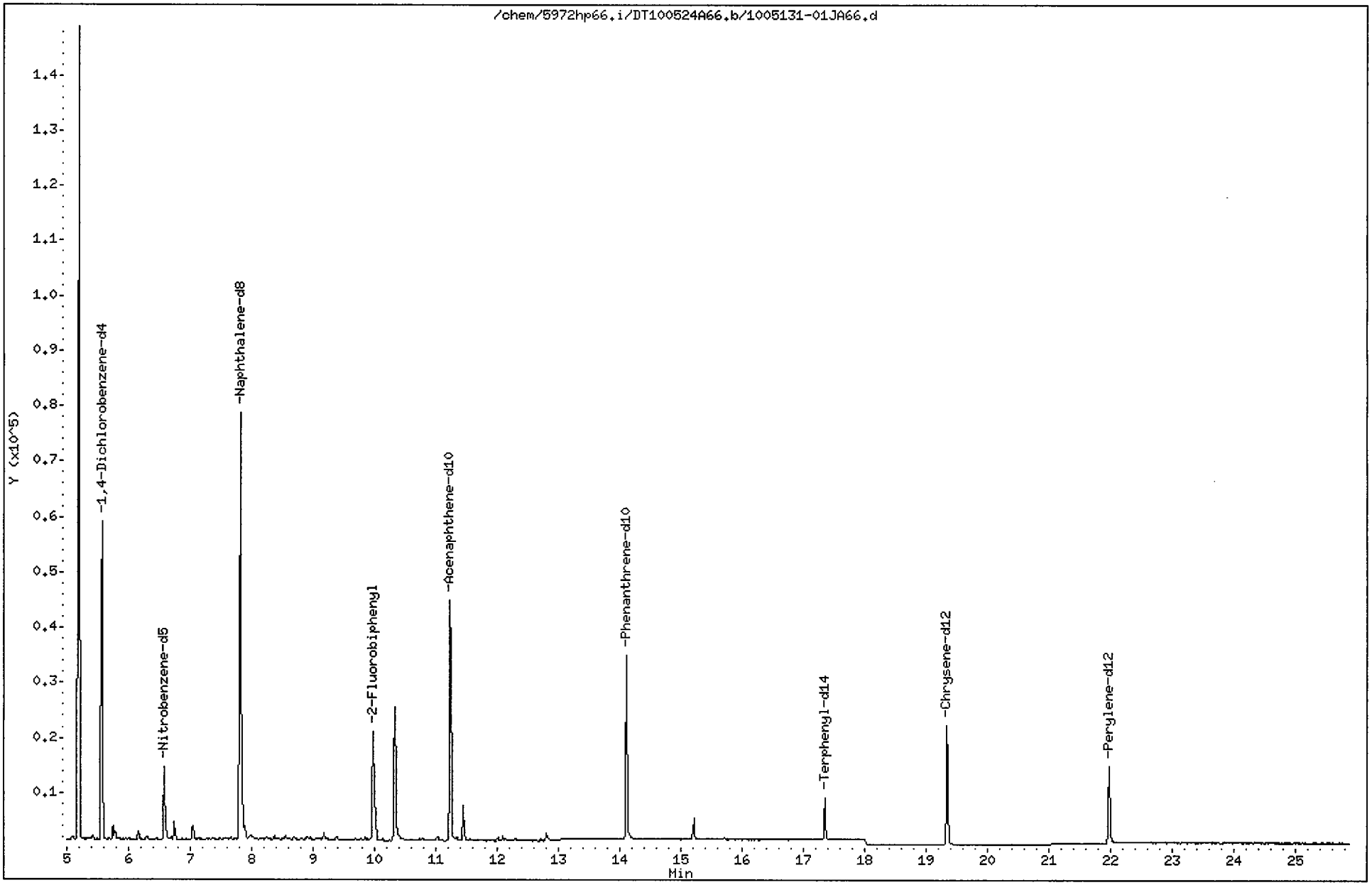
% Moisture: _____ decanted: (Y/N)___ | Date Extracted: 05/19/10
Concentrated Extract Volume: 1000(uL) | Date Analyzed: 05/24/10
Injection Volume: 2.0(uL) | Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0051905-BLK1

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.11	J
91-57-6	2-Methylnaphthalene	0.015	0.20	0.018	J
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DT100524A66.b/1005131-01JA66.d
Date : 24-MAY-2010 17:48
Client ID: EB051210-SS
Instrument: 5972hp66.i
Sample Info: 1005131-01:2650
Volume Injected (uL): 2.0
Operator: 2650
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100524A66.b/1005131-01JA66.d
Report Date: 01-Jun-2010 14:51

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100524A66.b/1005131-01JA66.d
Lab Smp Id: 1005131-01 Client Smp ID: EB051210-SS
Inj Date : 24-MAY-2010 17:48
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 1005131-01:2650
Misc Info : EB051210-SS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100524A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 14:38 byrd Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.570	5.569	(1.000)	34442	2.00000	
* 2 Naphthalene-d8	136	7.812	7.811	(1.000)	98527	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.232	(1.000)	34196	2.00000	
* 4 Phenanthrene-d10	188	14.100	14.100	(1.000)	49102	2.00000	
* 5 Chrysene-d12	240	19.336	19.336	(1.000)	29313	2.00000	
* 6 Perylene-d12	264	21.961	21.960	(1.000)	24319	2.00000	
$ 9 Nitrobenzene-d5	82	6.573	6.573	(0.841)	16133	0.78638	0.39
$ 10 2-Fluorobiphenyl	172	9.975	9.975	(0.888)	27050	0.70467	0.35
$ 12 Terphenyl-d14	244	17.347	17.346	(0.897)	9146	1.26854	0.63
13 Naphthalene	128	7.851	7.851	(1.005)	12325	0.21095	0.11(a)
15 2-Methylnaphthalene	141	9.180	9.167	(0.817)	775	0.03503	0.018(aM)
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					

2 of 11

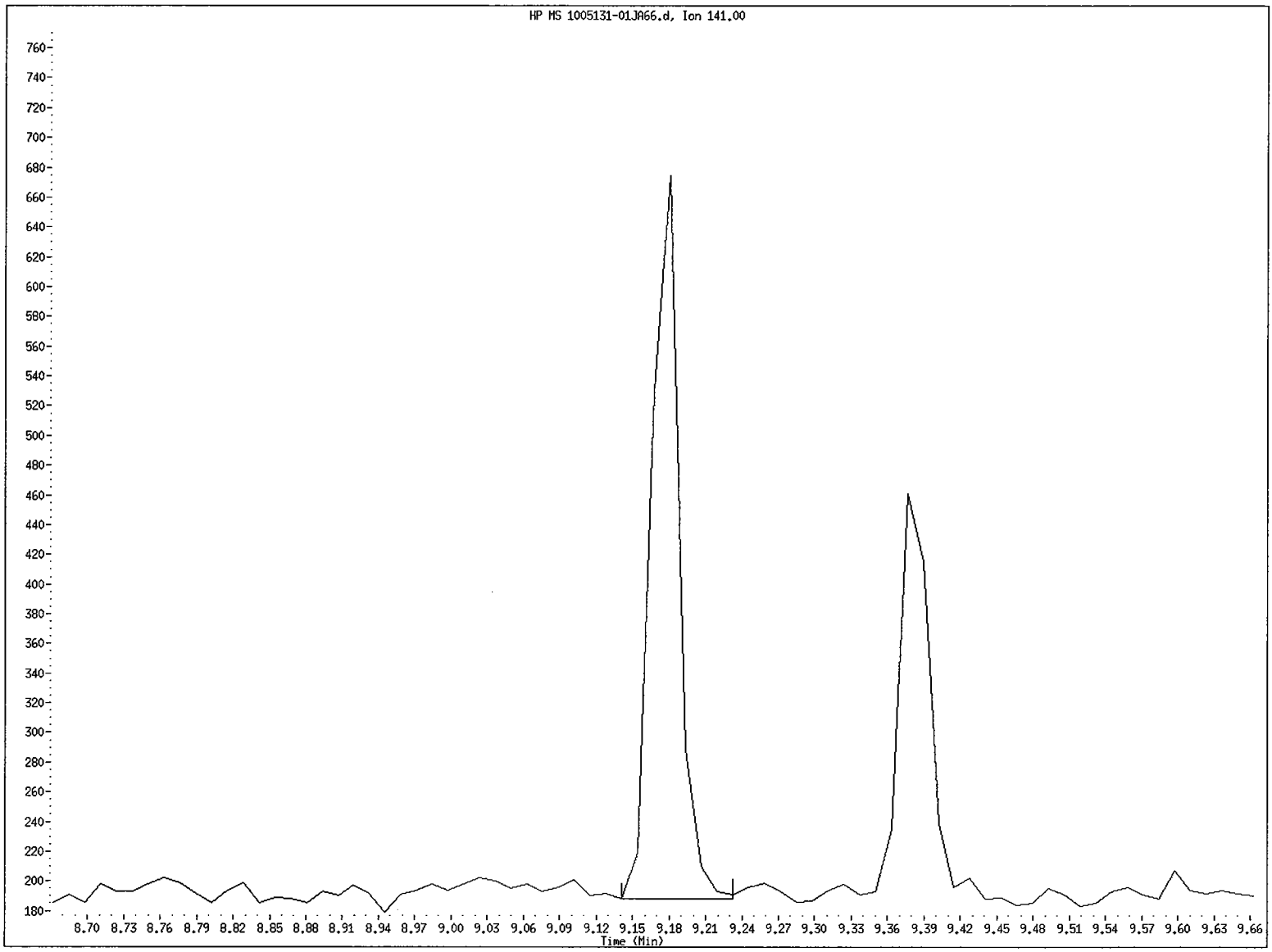
Data File: /chem/5972hp66.i/DT100524A66.b/1005131-01JA66.d
Report Date: 01-Jun-2010 14:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

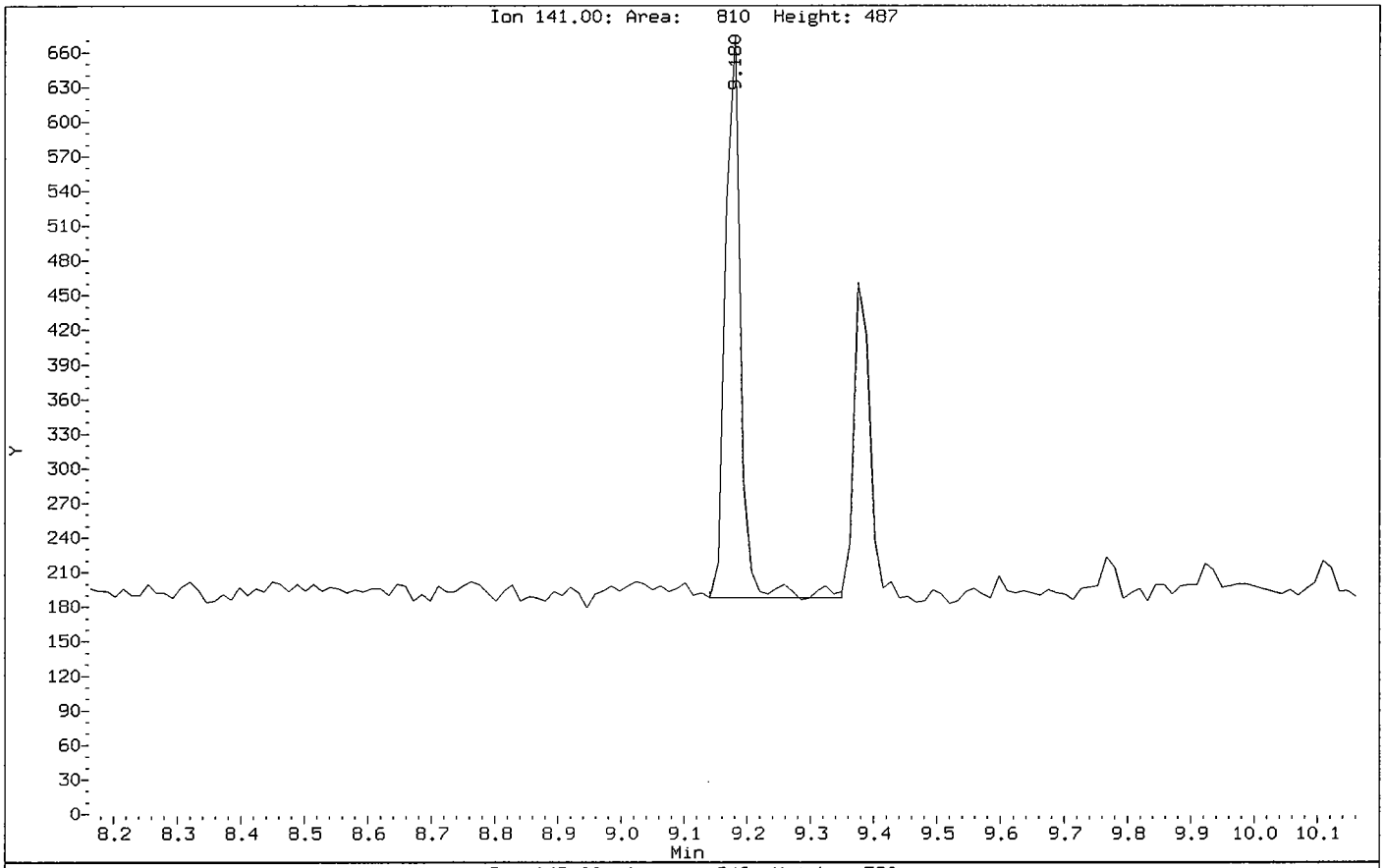
2-Methylnaphthalene CAS Number 91-57-6 Area = 775 Manually integrated

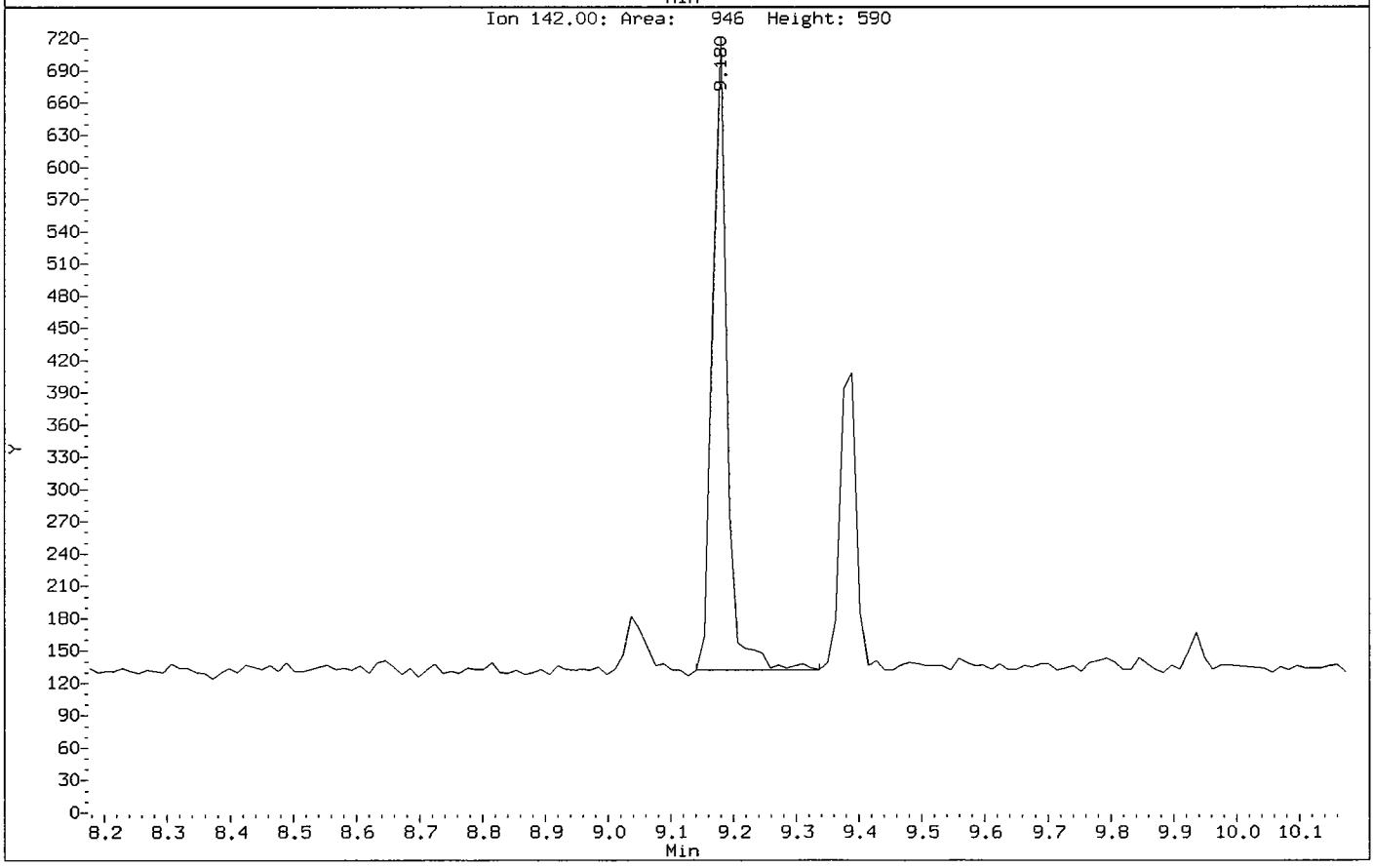


File name: /chem/5972hp66.i/DT100524A66.b/1005131-01JA66.d
Client ID: EB051210-SS
Instrument ID: 5972hp66.i
Injection Date and Time: 24-MAY-2010 17:48
Retention Time: 9.18
Operator ID: 2650

Data File: /chem/5972hp66.i/DT100524A66.b/1005131-01JA66.d
Injection Date: 24-MAY-2010 17:48
Instrument: 5972hp66.i
Client Sample ID: EB051210-SS

Compound: 2-Methylnaphthalene
CAS Number: 91-57-6





Data File: /chem/5972hp66.i/DT100524A66.b/1005131-01JA66.d

Date : 24-MAY-2010 17:48

Client ID: EB051210-SS

Instrument: 5972hp66.i

Sample Info: 1005131-01:2650

Volume Injected (uL): 2.0

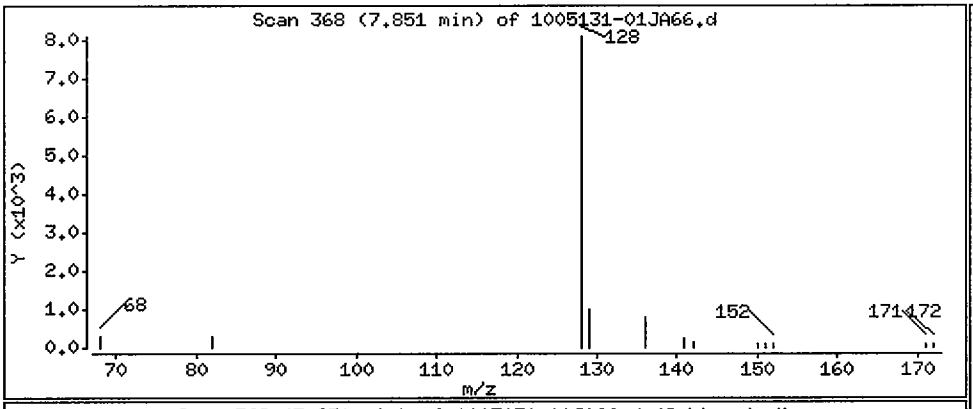
Operator: 2650

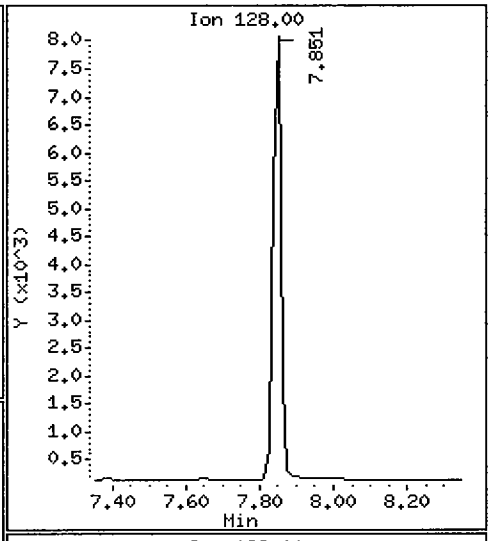
Column phase: Rtx-5MS

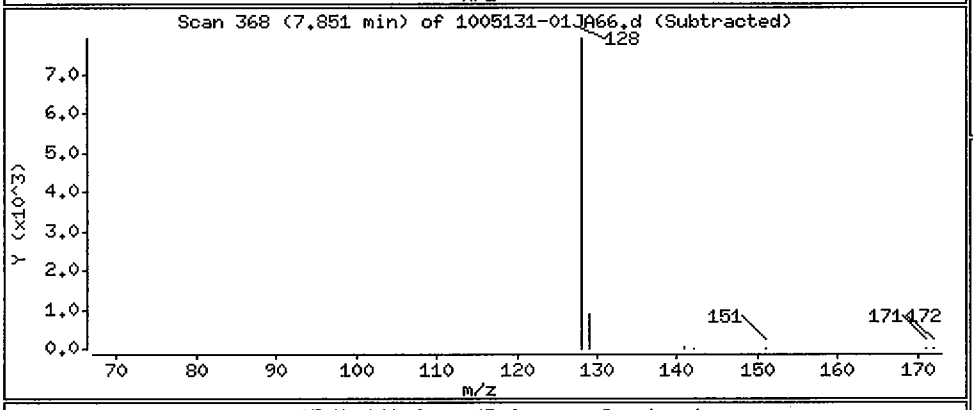
Column diameter: 0.32

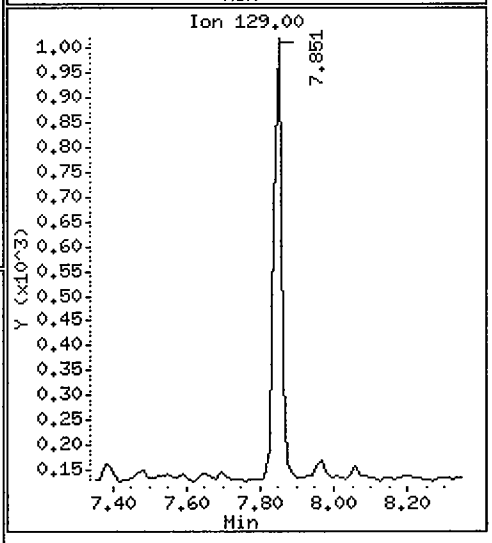
13 Naphthalene

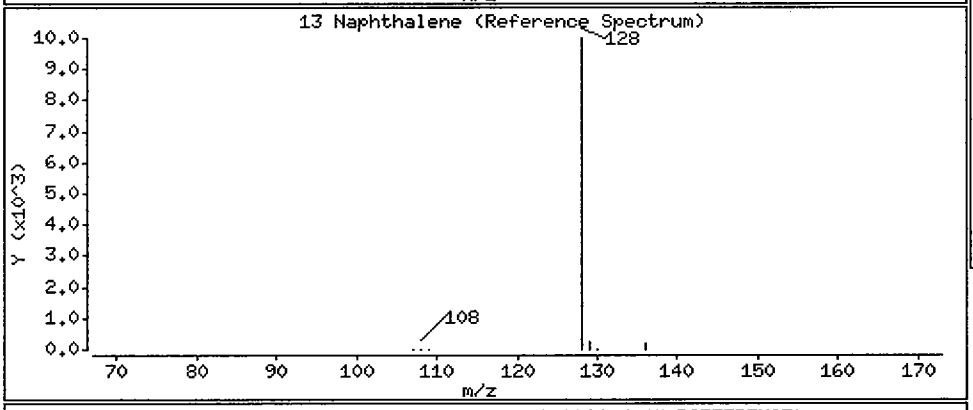
Concentration: 0.11 ug/L

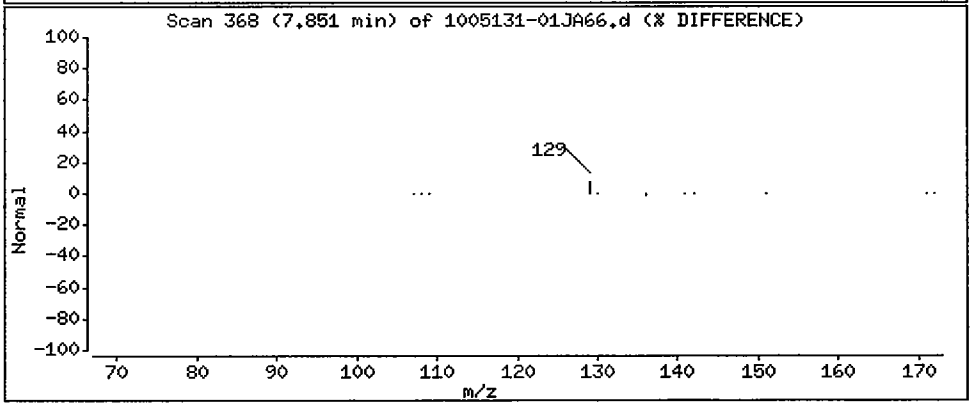












Data File: /chem/5972hp66.i/DT100524A66.b/1005131-01JA66.d

Date : 24-MAY-2010 17:48

Client ID: EB051210-SS

Instrument: 5972hp66.i

Sample Info: 1005131-01:2650

Volume Injected (uL): 2.0

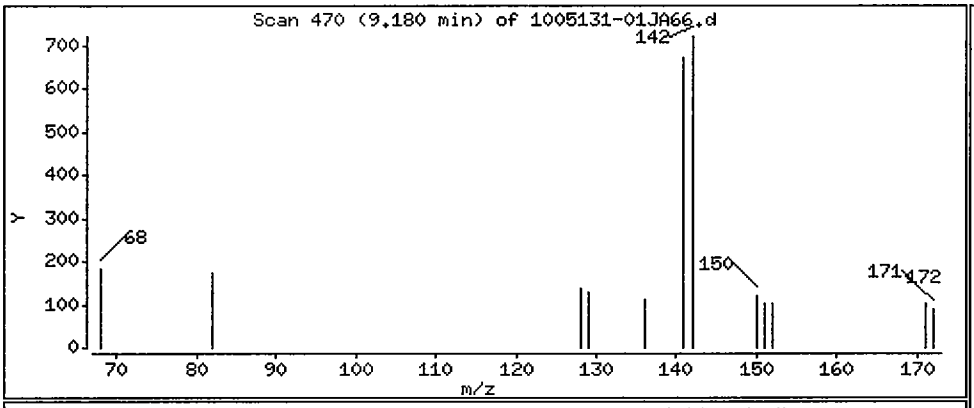
Operator: 2650

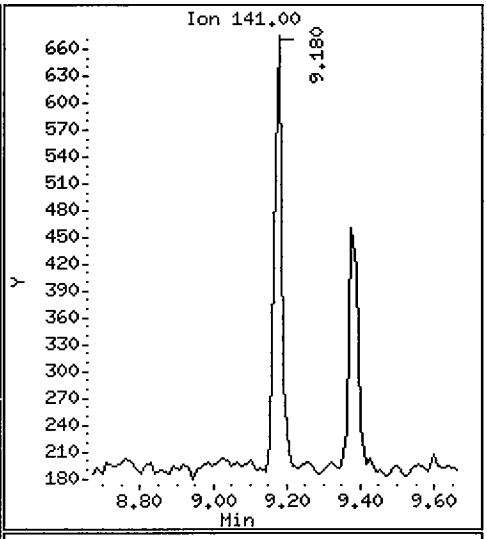
Column phase: Rtx-5MS

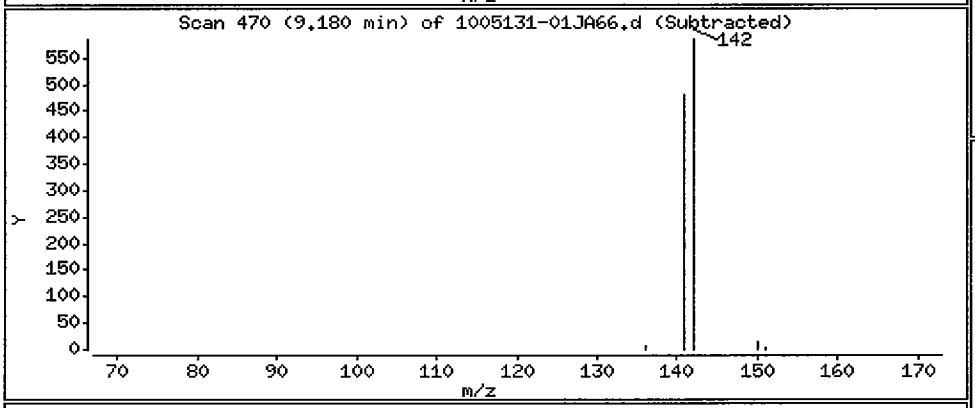
Column diameter: 0.32

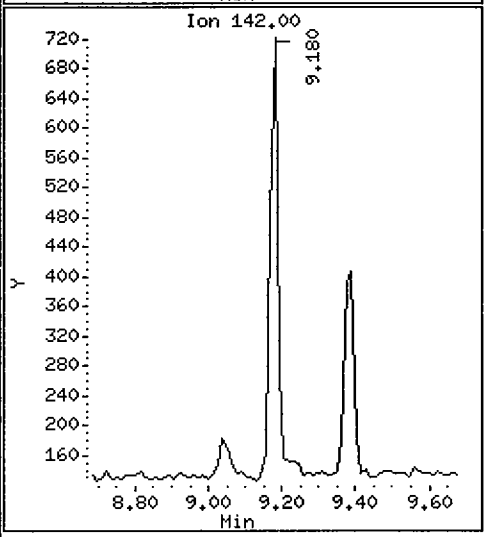
15 2-Methylnaphthalene

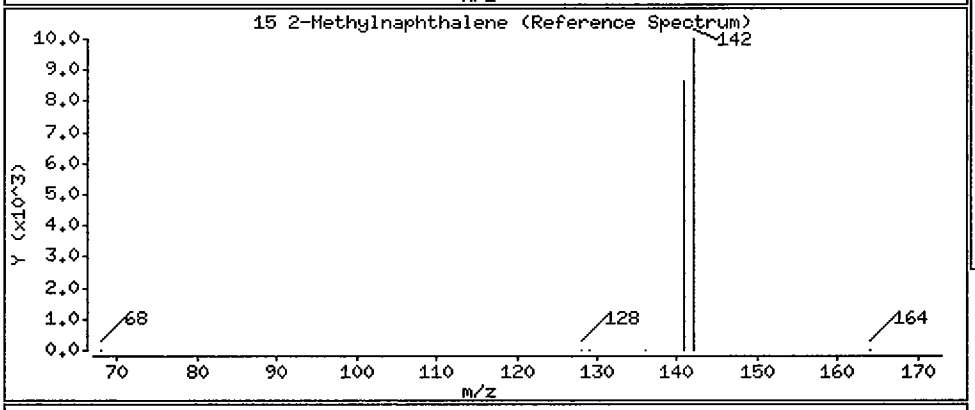
Concentration: 0.018 ug/L

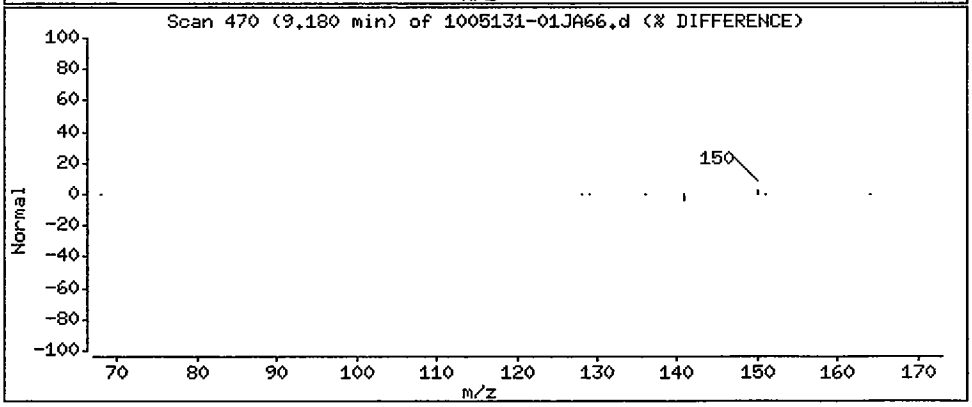












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: Lab Project Number:
Client SDG No: 1005131 Method: 8270C-SIM
Client Sample ID: EB051310-SB Date Collected: 05/13/10

Lab Sample ID: 1005131-02 Date Received: 05/14/10
Sample wt/vol: 1000 (g/mL) ML Lab File ID: 1005131-02JC66
Level: (low/med) LOW Analyst: 2743

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/19/10
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/10
Injection Volume: 2.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0051905-BLK1

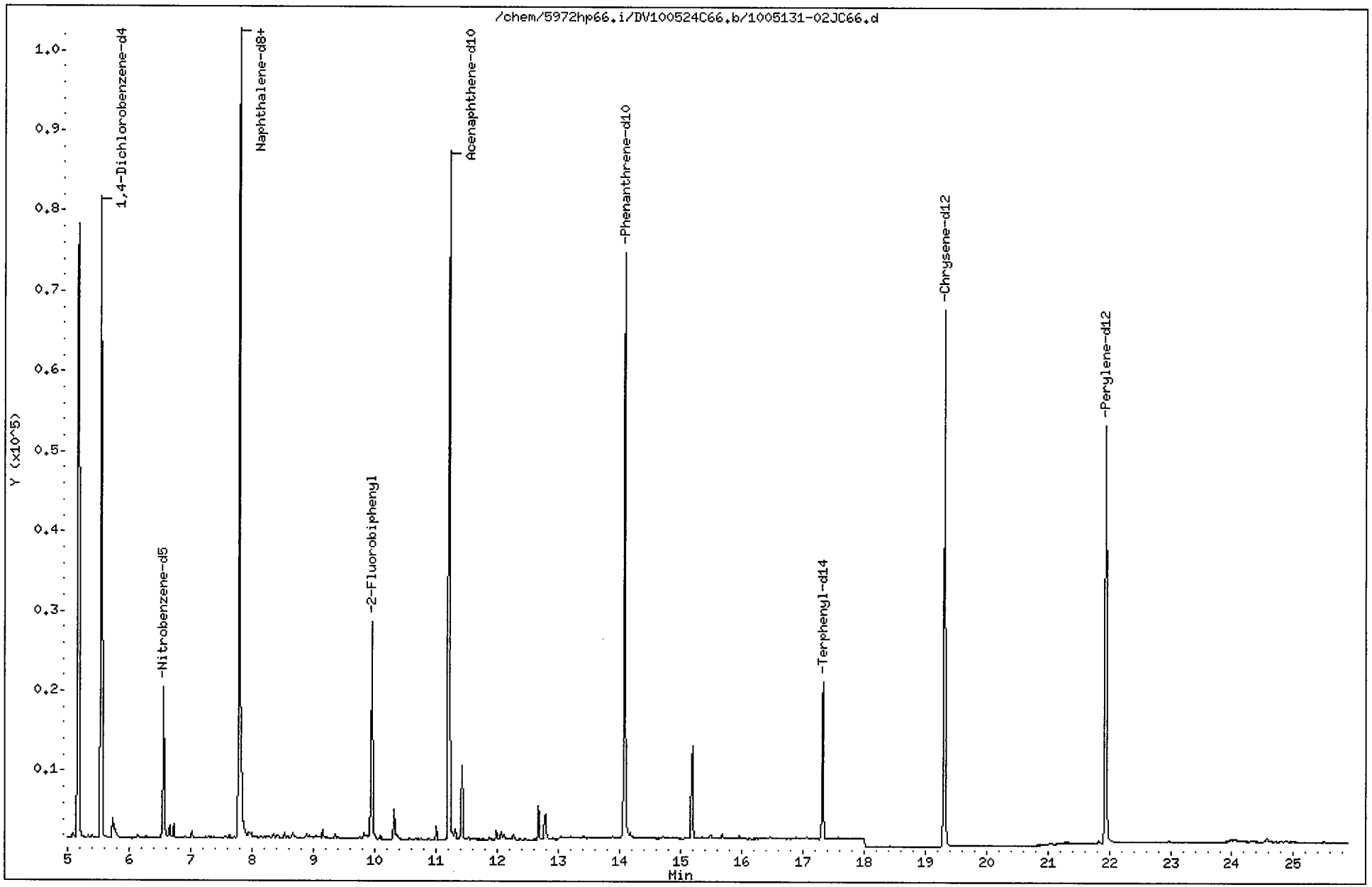
CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.055	J
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DV100524C66.b/1005131-02JC66.d
Date : 25-MAY-2010 08:56
Client ID: EB051310-SB
Sample Info: 1005131-02:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/1005131-02JC66.d
Report Date: 01-Jun-2010 15:50

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/1005131-02JC66.d
Lab Smp Id: 1005131-02 Client Smp ID: EB051310-SB
Inj Date : 25-MAY-2010 08:56
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005131-02:2743
Misc Info : EB051310-SB
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 15:47 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	44507	2.00000	
*	2 Naphthalene-d8	136	7.799	7.802	(1.000)	149596	2.00000	
*	3 Acenaphthene-d10	164	11.217	11.218	(1.000)	64528	2.00000	
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	104515	2.00000	
*	5 Chrysene-d12	240	19.319	19.319	(1.000)	86966	2.00000	
*	6 Perylene-d12	264	21.950	21.949	(1.000)	79301	2.00000	
$	9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	21376	0.64215	0.32
$	10 2-Fluorobiphenyl	172	9.950	9.952	(0.887)	41744	0.61993	0.31
$	12 Terphenyl-d14	244	17.334	17.333	(0.897)	26124	0.82675	0.41
	13 Naphthalene	128	7.825	7.828	(1.003)	10187	0.11009	0.055(a)
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					
	21 Fluorene	166	Compound Not Detected.					
	25 Phenanthrene	178	Compound Not Detected.					

6/1/10

Data File: /chem/5972hp66.i/DV100524C66.b/1005131-02JC66.d
Report Date: 01-Jun-2010 15:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DV100524C66.b/1005131-02JC66.d

Date : 25-MAY-2010 08:56

Client ID: EB051310-SB

Instrument: 5972hp66.i

Sample Info: 1005131-02:2743

Volume Injected (uL): 2.0

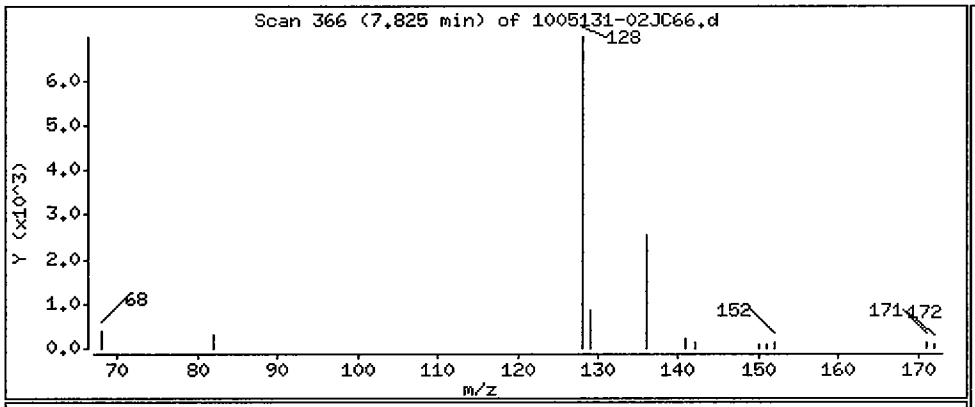
Operator: 2743

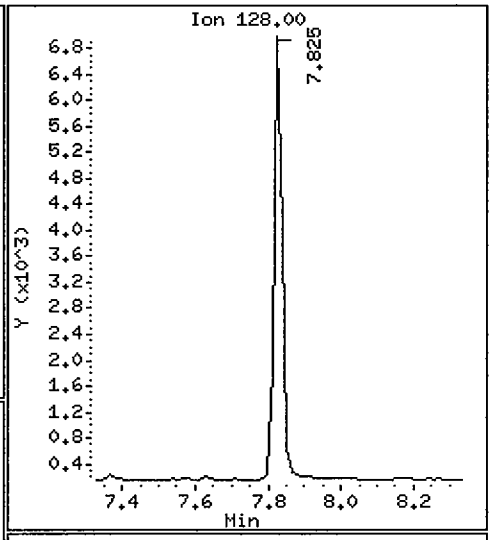
Column phase: Rtx-5MS

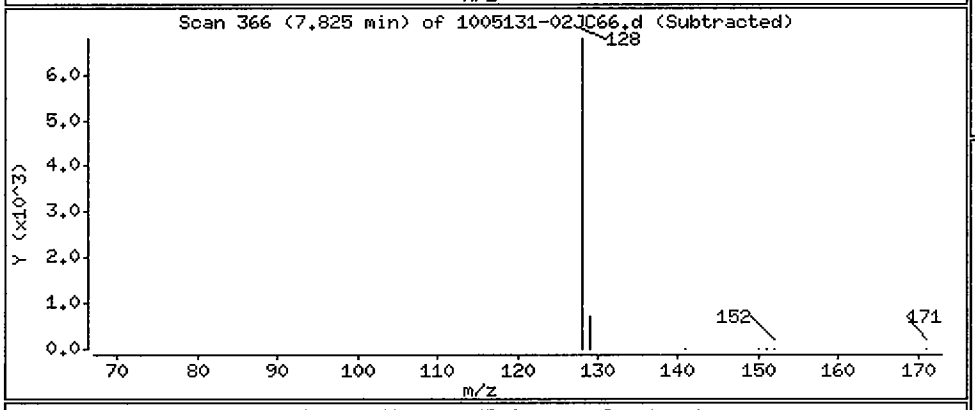
Column diameter: 0.32

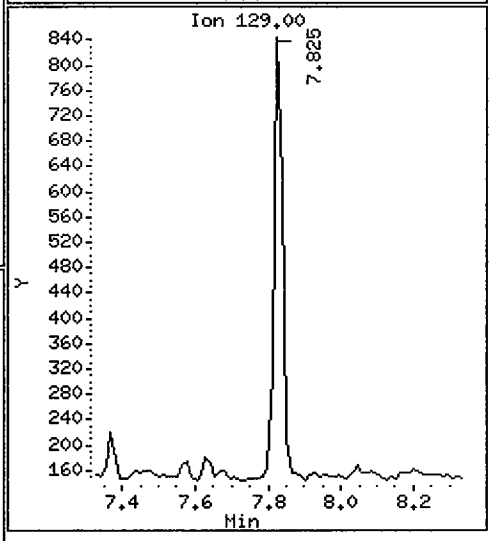
13 Naphthalene

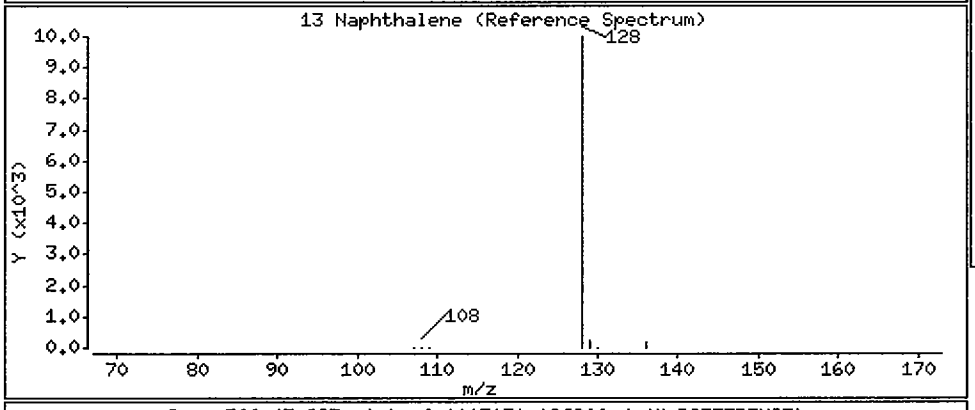
Concentration: 0.055 ug/L

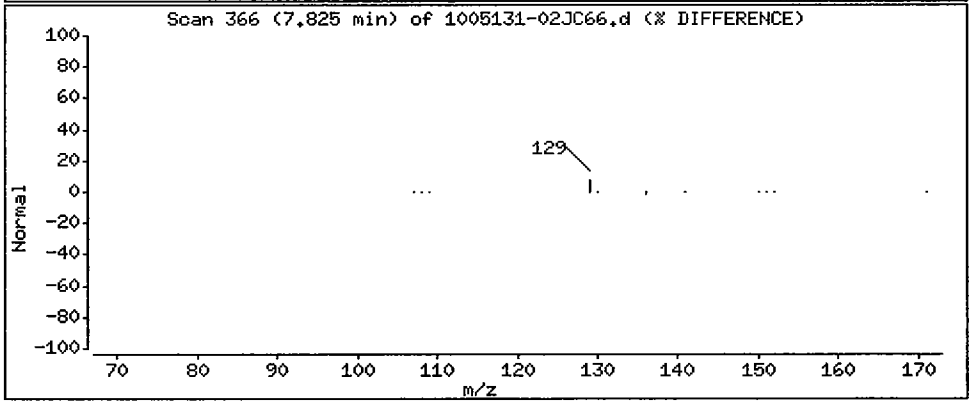












1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID: Lab Project Number:
Client SDG No: 1005131 Method: 8270C-SIM
Client Sample ID: EB051810-SS Date Collected: 05/18/10

Lab Sample ID: 1005131-05 Date Received: 05/19/10
Sample wt/vol: 900 (g/mL) ML Lab File ID: 1005131-05C66
Level: (low/med) LOW Analyst: 2743

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 05/24/10
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/25/10
Injection Volume: 2.0(uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: 8.0 Method Blank: 0052402-BLK1

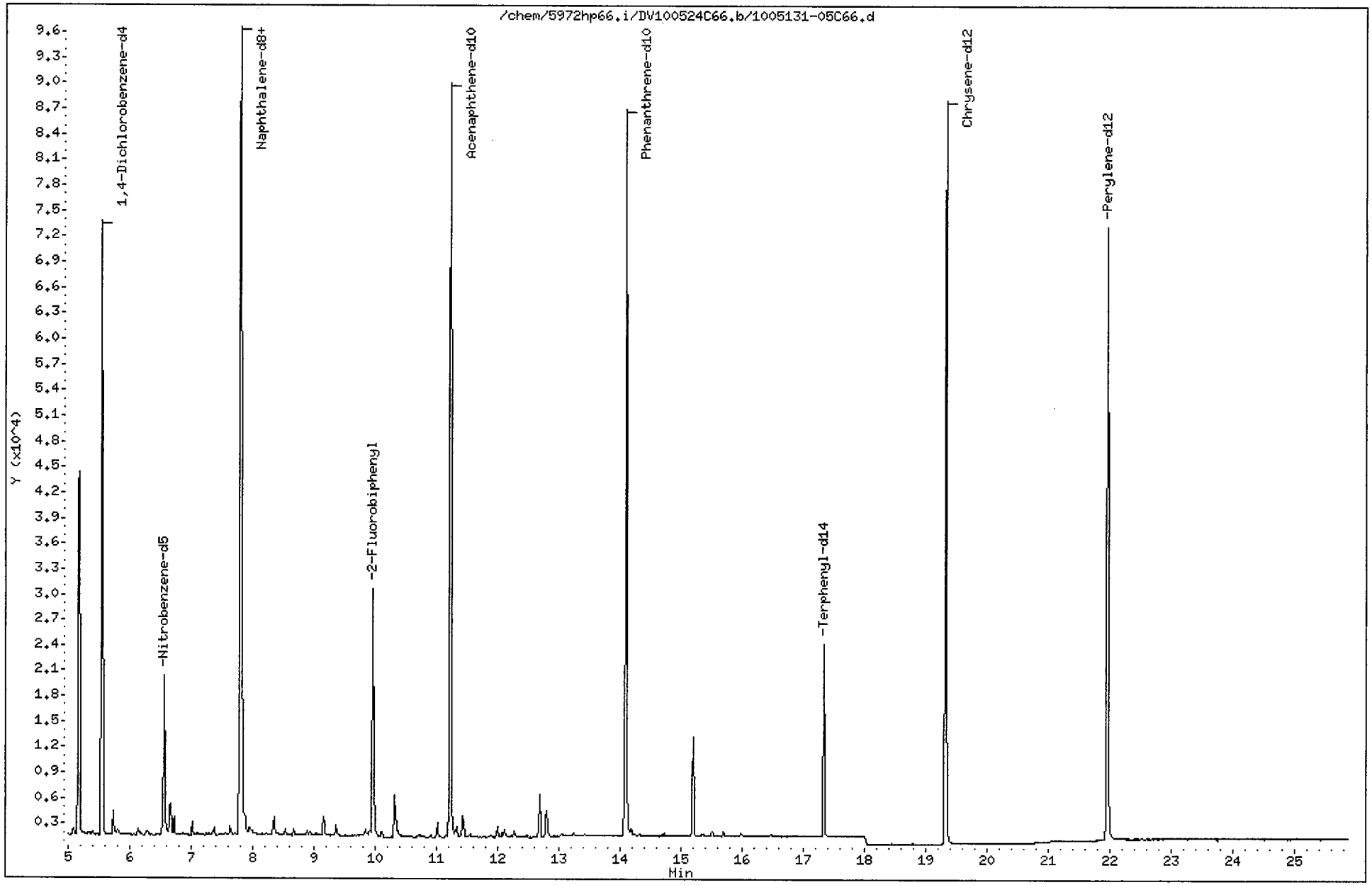
CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.033	0.22	0.15	J
91-57-6	2-Methylnaphthalene	0.017	0.22	0.018	J
208-96-8	Acenaphthylene	0.011	0.22	ND	U
83-32-9	Acenaphthene	0.039	0.22	ND	U
86-73-7	Fluorene	0.050	0.22	ND	U
85-01-8	Phenanthrene	0.039	0.22	ND	U
120-12-7	Anthracene	0.022	0.22	ND	U
206-44-0	Fluoranthene	0.011	0.22	ND	U
129-00-0	Pyrene	0.011	0.22	ND	U
56-55-3	Benzo(a)anthracene	0.022	0.22	ND	U
218-01-9	Chrysene	0.017	0.22	ND	U
205-99-2	Benzo(b)fluoranthene	0.011	0.22	ND	U
207-08-9	Benzo(k)fluoranthene	0.011	0.22	ND	U
50-32-8	Benzo(a)pyrene	0.011	0.22	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.011	0.22	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.011	0.22	ND	U
191-24-2	Benzo(g,h,i)perylene	0.011	0.22	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DV100524C66.b/1005131-05C66.d
Date : 25-MAY-2010 13:02
Client ID: EB051810-SS
Sample Info: 1005131-05:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/1005131-05C66.d
Report Date: 01-Jun-2010 15:50

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/1005131-05C66.d
Lab Smp Id: 1005131-05 Client Smp ID: EB051810-SS
Inj Date : 25-MAY-2010 13:02
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005131-05:2743
Misc Info : EB051810-SS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 15:47 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	900.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)	
*	1 1,4-Dichlorobenzene-d4	152	5.543	5.547	(1.000)	39737	2.00000		(a)
*	2 Naphthalene-d8	136	7.798	7.802	(1.000)	140730	2.00000		(a)
*	3 Acenaphthene-d10	164	11.218	11.218	(1.000)	63014	2.00000		(a)
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	114114	2.00000		(a)
*	5 Chrysene-d12	240	19.319	19.319	(1.000)	113370	2.00000		(a)
*	6 Perylene-d12	264	21.949	21.949	(1.000)	104105	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.560	6.563	(0.841)	22112	0.70611	0.39	
$	10 2-Fluorobiphenyl	172	9.962	9.952	(0.888)	35553	0.54068	0.30	
$	12 Terphenyl-d14	244	17.333	17.333	(0.897)	28574	0.69368	0.39	
	13 Naphthalene	128	7.825	7.828	(1.003)	23964	0.27530	0.15	(a)
	15 2-Methylnaphthalene	141	9.154	9.157	(0.816)	1476	0.03272	0.018	(aM)
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						
	21 Fluorene	166	Compound Not Detected.						
	25 Phenanthrene	178	Compound Not Detected.						

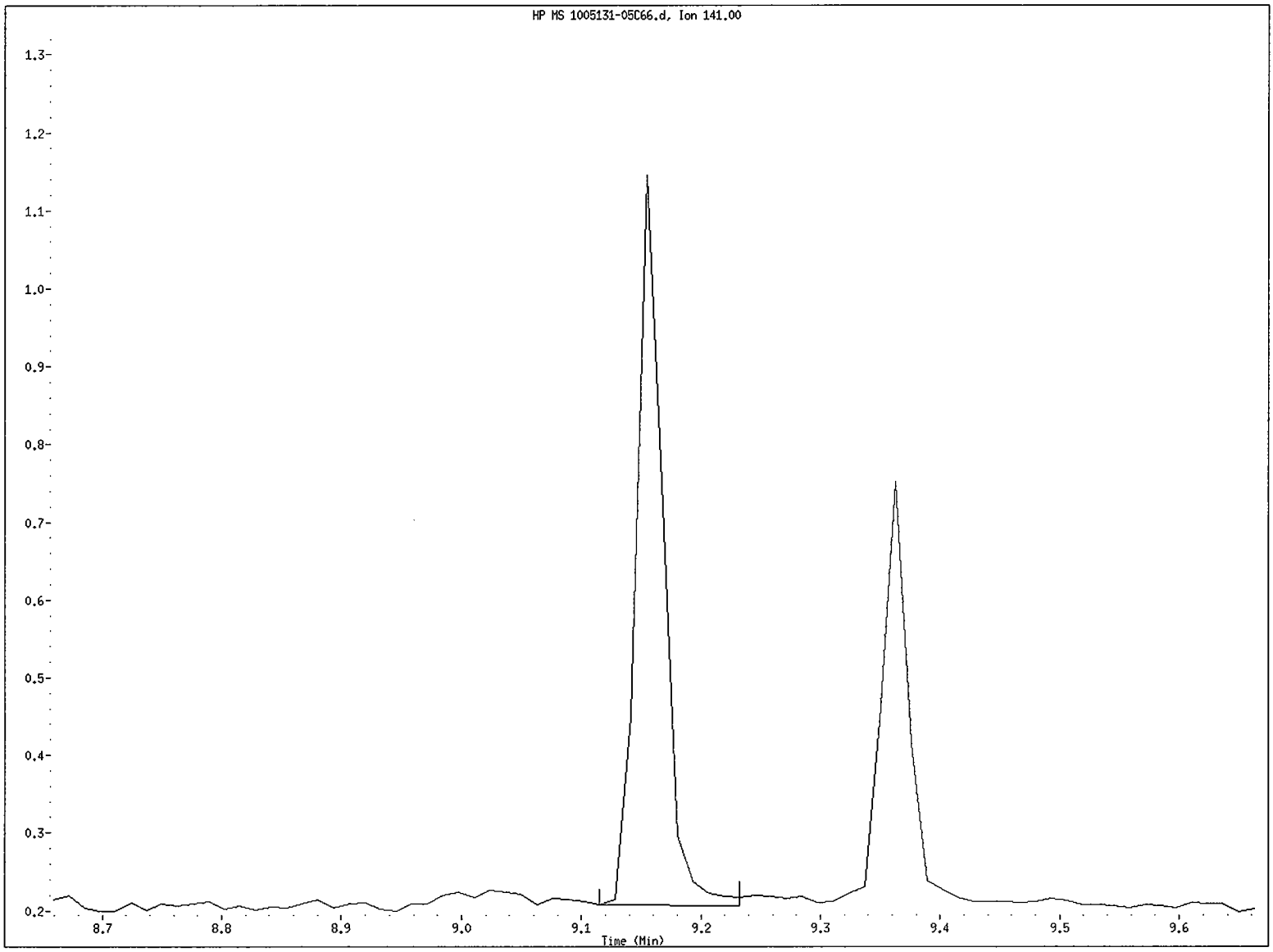
Data File: /chem/5972hp66.i/DV100524C66.b/1005131-05C66.d
Report Date: 01-Jun-2010 15:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

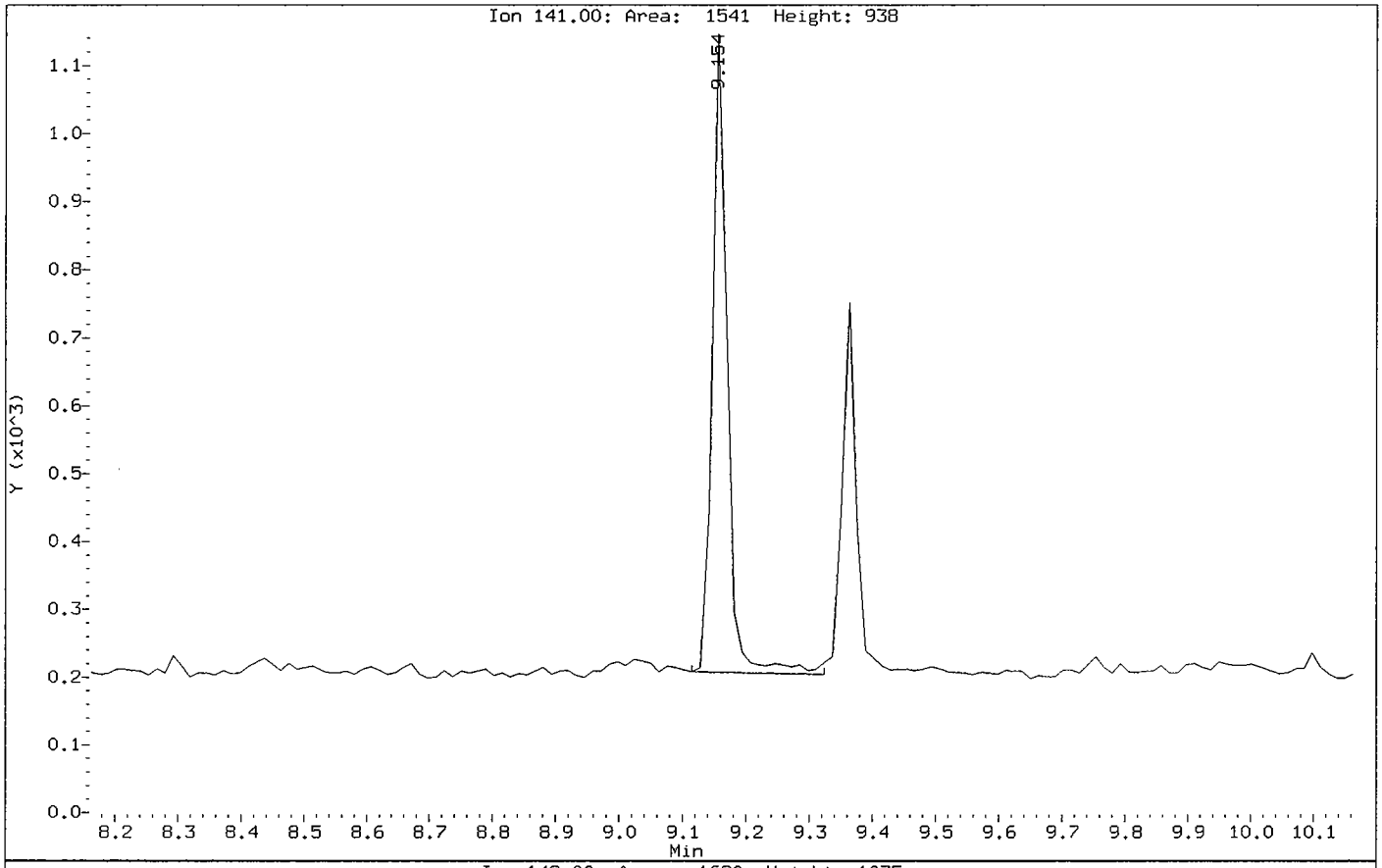
2-Methylnaphthalene CAS Number 91-57-6 Area = 1476 Manually integrated

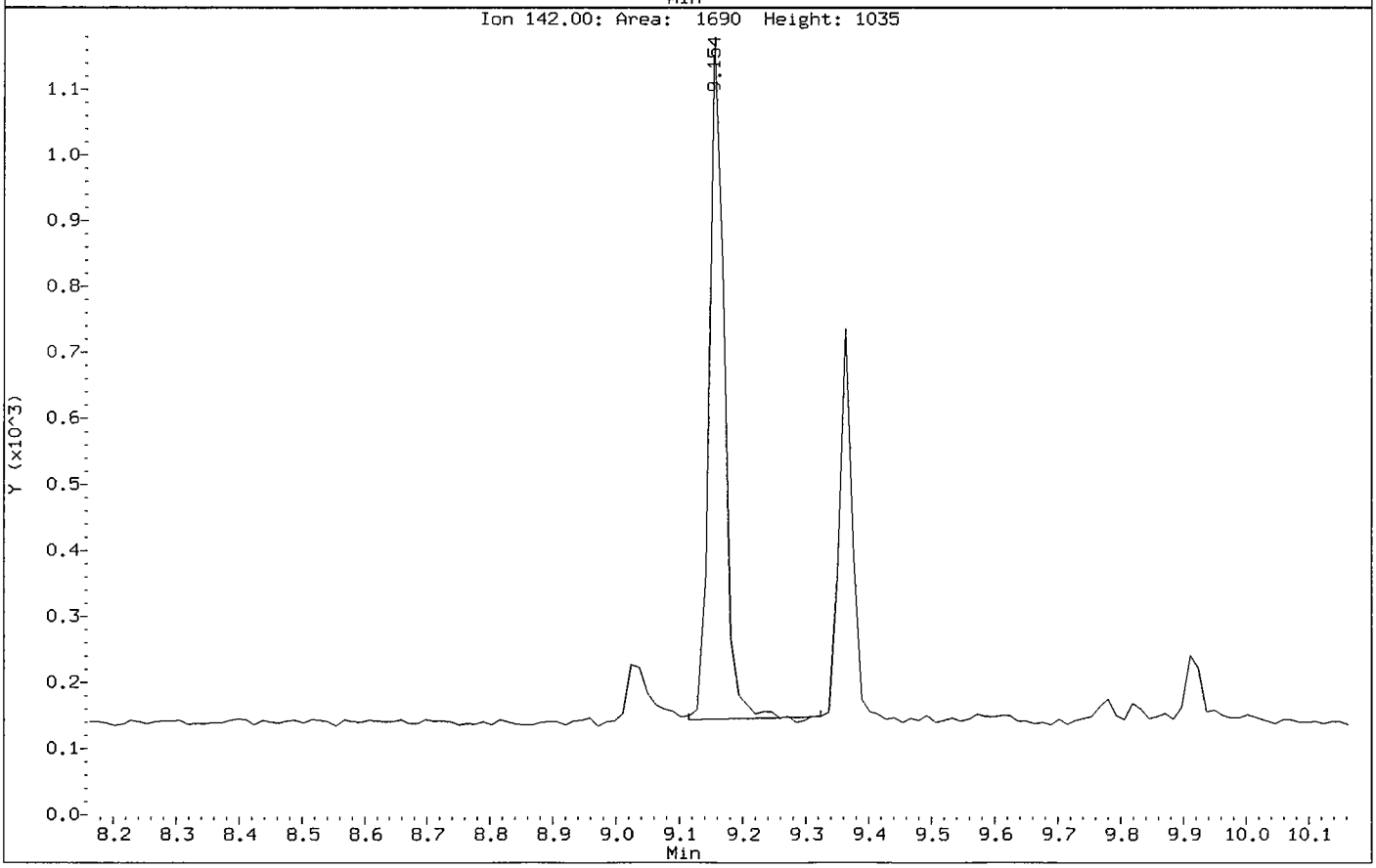


File name: /chem/5972hp66.i/DV100524C66.b/1005131-05C66.d
Client ID: EB051810-SS
Instrument ID: 5972hp66.i
Injection Date and Time: 25-MAY-2010 13:02
Retention Time: 9.15
Operator ID: 2743

Data File: /chem/5972hp66.i/DV100524C66.b/1005131-05C66.d
Injection Date: 25-MAY-2010 13:02
Instrument: 5972hp66.i
Client Sample ID: EB051810-SS

Compound: 2-Methylnaphthalene
CAS Number: 91-57-6





Data File: /chem/5972hp66.i/DV100524C66.b/1005131-05C66.d

Date : 25-MAY-2010 13:02

Client ID: EB051810-SS

Instrument: 5972hp66.i

Sample Info: 1005131-05:2743

Volume Injected (uL): 2.0

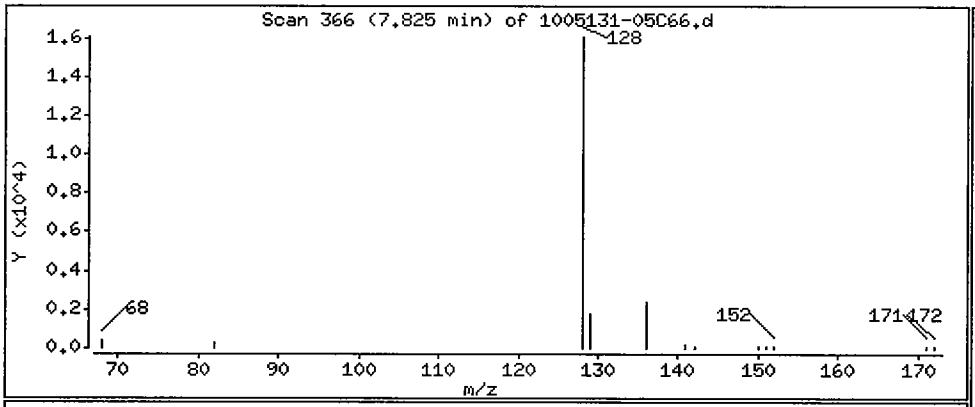
Operator: 2743

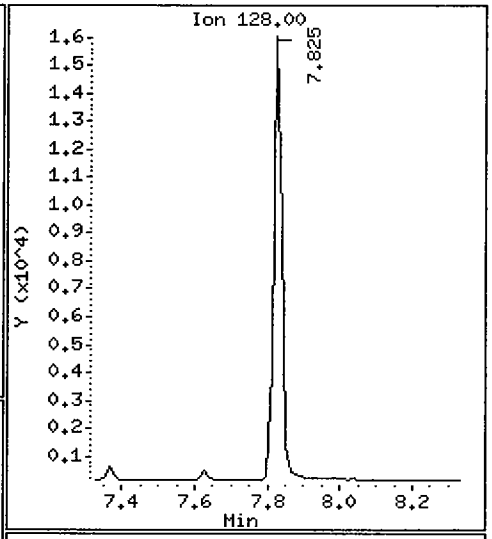
Column phase: Rtx-5MS

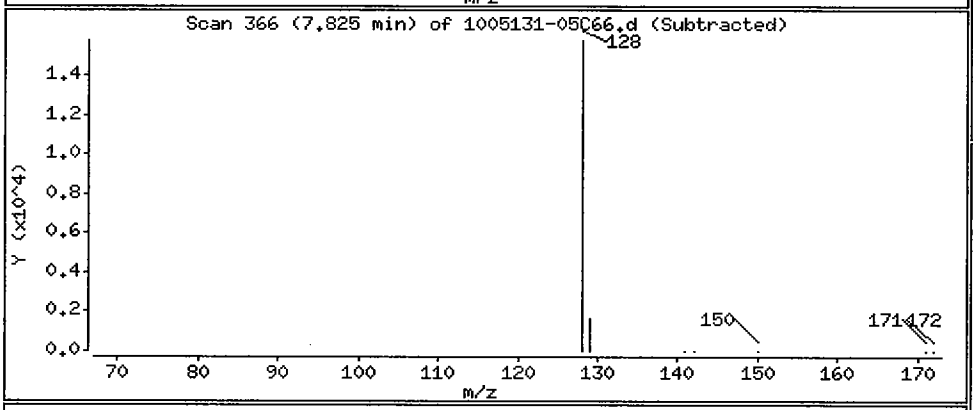
Column diameter: 0.32

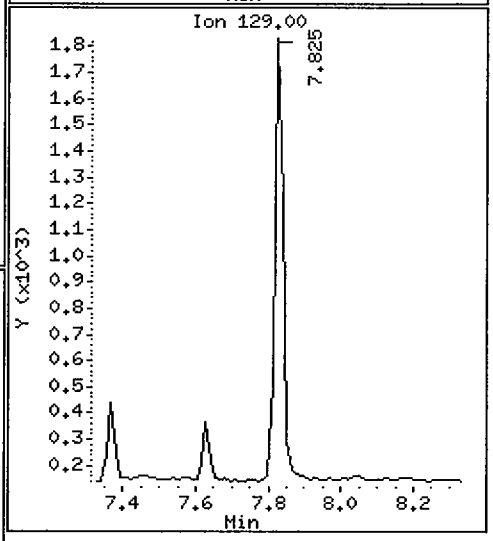
13 Naphthalene

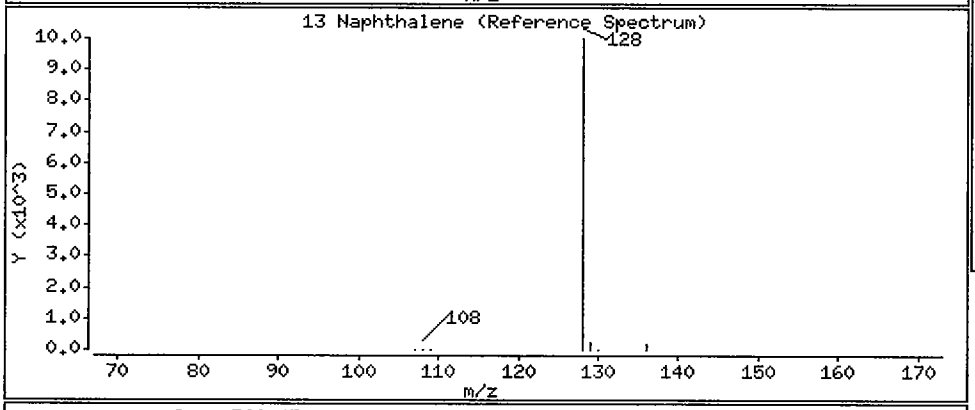
Concentration: 0.15 ug/L

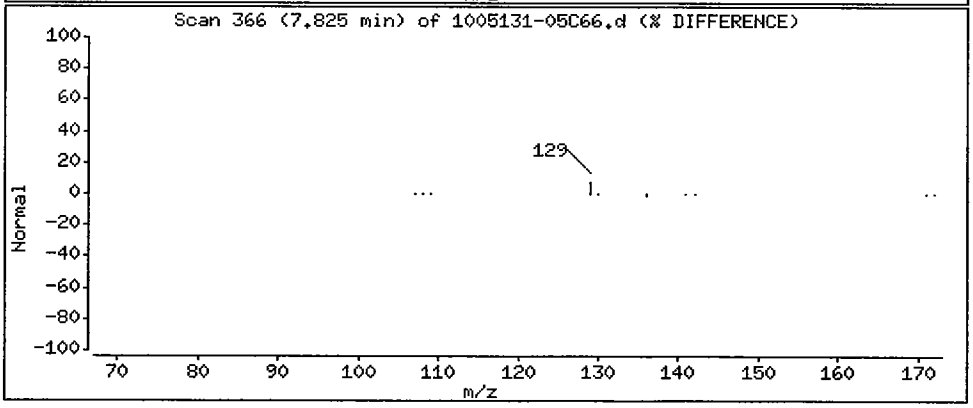












Data File: /chem/5972hp66.i/DV100524C66.b/1005131-05C66.d

Date : 25-MAY-2010 13:02

Client ID: EB051810-SS

Instrument: 5972hp66.i

Sample Info: 1005131-05:2743

Volume Injected (uL): 2.0

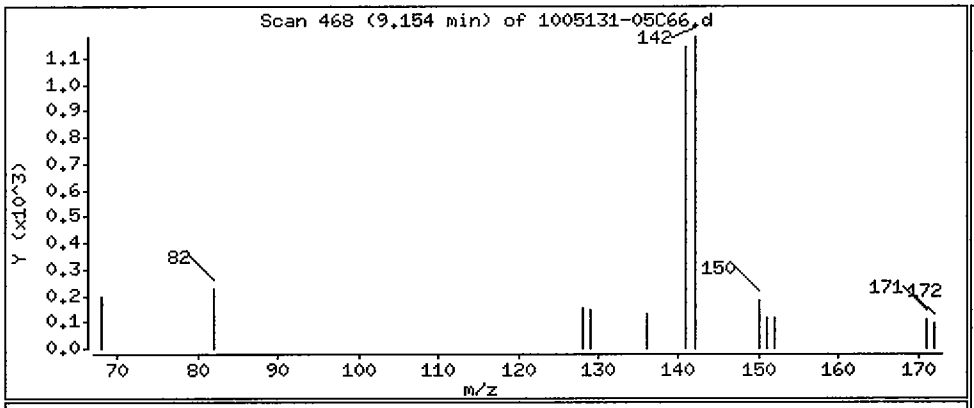
Operator: 2743

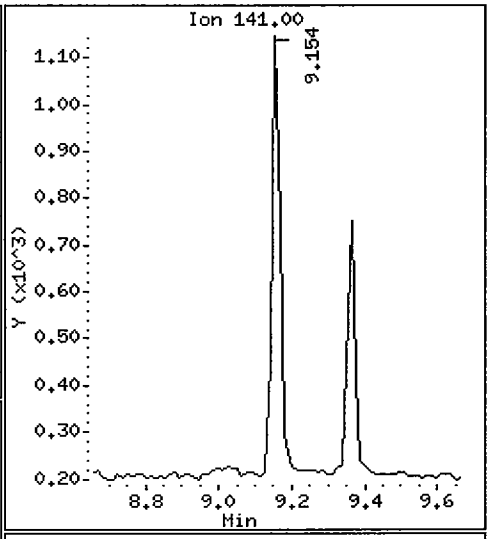
Column phase: Rtx-5MS

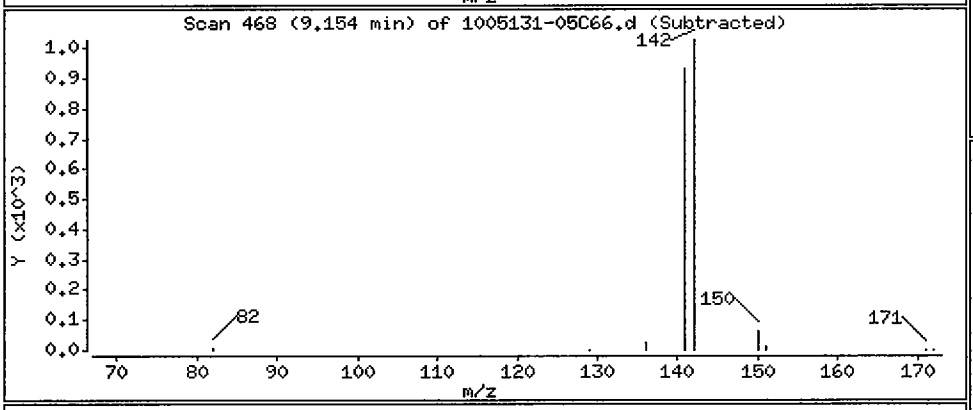
Column diameter: 0.32

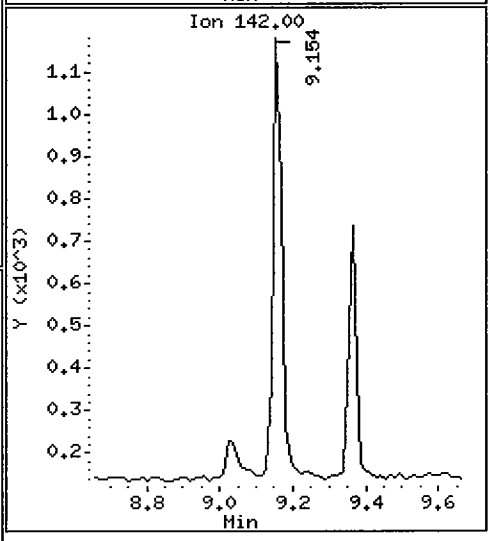
15 2-Methylnaphthalene

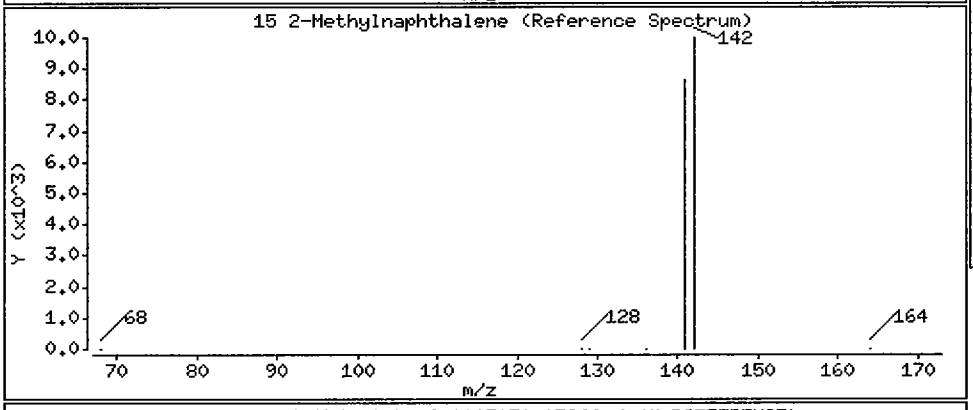
Concentration: 0.018 ug/L

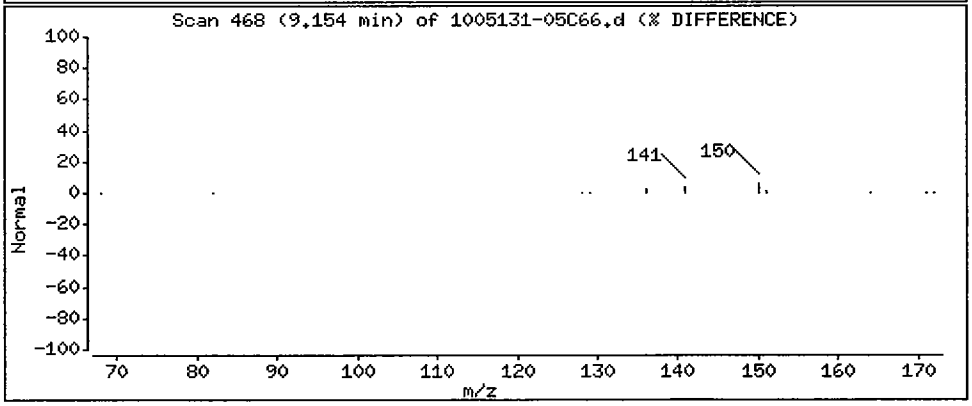












3. Standards Data

a. Initial Calibration Data (Form VI SV)

b. Continuing Calibration Data (Form VII SV)

a. Initial Calibration Data (Form VI SV)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Within each initial calibration, the standards are in order by level, from lowest to highest.

(1) Chromatograms and quantitation reports for the initial (five-point) calibration.
Spectra not required.

(2) EICPs displaying each manual integration.

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: 5972HP66 Calibration Date(s): 05/24/10 05/24/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0057 0313

LAB FILE ID: RF0.4: 0E24002-CALRF1.2: 0E24002-CALRF3: 0E24002-CAL3C
RF5: 0E24002-CAL4CRF10: 0E24002-CAL5

COMPOUND	RF0.4	RF1.2	RF3	RF5	RF10
Naphthalene	1.140	1.208	1.178	1.234	1.170
2-Methylnaphthalene	1.236	1.303	1.349	1.344	1.237
Acenaphthylene	1.990	2.024	2.160	2.224	2.204
Acenaphthene	1.228	1.226	1.245	1.282	1.237
Fluorene	0.692	0.561	0.684	0.672	0.562
Phenanthrene	1.023	0.854	0.924	0.926	0.768
Anthracene	0.871	0.722	0.852	0.859	0.724
Fluoranthene	1.023	0.824	0.964	0.875	0.746
Pyrene	1.105	0.896	1.044	0.960	0.812
Benzo(a)anthracene	0.815	0.627	0.786	0.765	0.684
Chrysene	0.979	0.793	0.858	0.814	0.689
Benzo(b)fluoranthene	1.042	0.832	1.035	0.961	0.866
Benzo(k)fluoranthene	1.079	0.906	1.031	1.044	0.894
Benzo(a)pyrene	0.830	0.679	0.874	0.875	0.785
Indeno(1,2,3-cd)pyrene	0.675	0.567	0.761	0.790	0.655
Dibenzo(a,h)anthracene	0.770	0.677	0.786	0.798	0.670
Benzo(g,h,i)perylene	0.867	0.761	0.862	0.842	0.669
Nitrobenzene-d5	0.383	0.417	0.404	0.442	0.435
2-Fluorobiphenyl	2.185	2.204	2.343	2.329	2.163
Terphenyl-d14	0.577	0.459	0.514	0.475	0.435

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

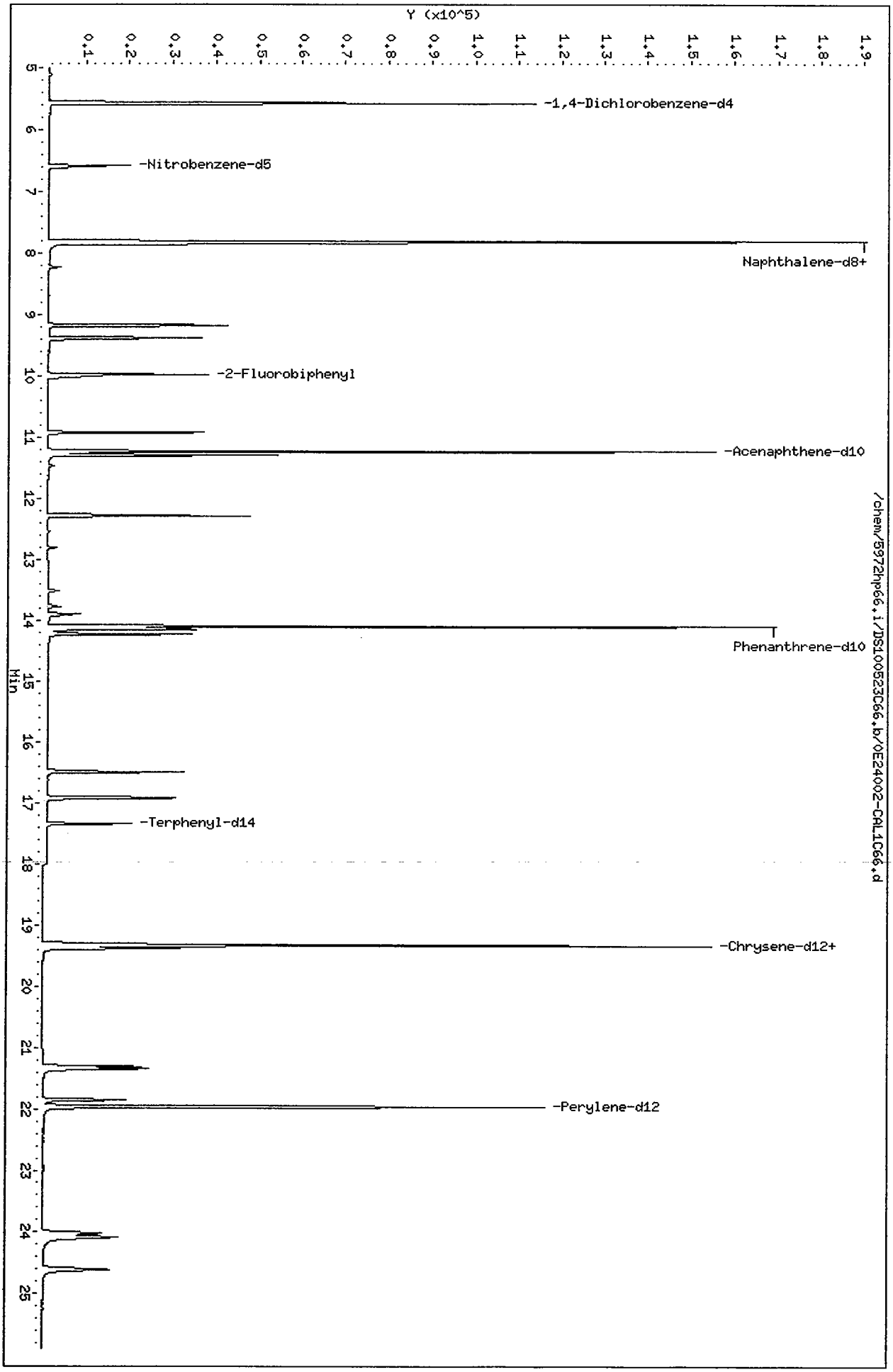
Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: 5972HP66 Calibration Date(s): 05/24/10 05/24/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0057 0313

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	AVRG	1.18598682	3.053	15.000
2-Methylnaphthalene	AVRG	1.29395788	4.284	15.000
Acenaphthylene	AVRG	2.12052550	5.026	15.000
Acenaphthene	AVRG	1.24367251	1.837	30.000
Fluorene	AVRG	0.63437179	10.513	15.000
Phenanthrene	AVRG	0.89897800	10.537	15.000
Anthracene	AVRG	0.80556800	9.424	15.000
Fluoranthene	AVRG	0.88627490	12.417	30.000
Pyrene	AVRG	0.96345877	12.041	15.000
Benzo(a)anthracene	AVRG	0.73545617	10.568	15.000
Chrysene	AVRG	0.82673511	12.747	15.000
Benzo(b)fluoranthene	AVRG	0.94712927	10.142	15.000
Benzo(k)fluoranthene	AVRG	0.99080153	8.560	15.000
Benzo(a)pyrene	AVRG	0.80855080	10.025	30.000
Indeno(1,2,3-cd)pyrene	AVRG	0.68964695	12.940	15.000
Dibenzo(a,h)anthracene	AVRG	0.74019417	8.311	15.000
Benzo(g,h,i)perylene	AVRG	0.80002540	10.599	15.000
Nitrobenzene-d5	AVRG	0.41644273	5.700	15.000
2-Fluorobiphenyl	AVRG	2.24510440	3.777	15.000
Terphenyl-d14	AVRG	0.49192158	11.239	15.000

FORM VI SV


Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL1C66.d
Date : 24-MAY-2010 02:05
Client ID: SSTD0.40Y1
Sample Info: SSTD0.40Y1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^5)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8+
-2-Fluorobiphenyl
-Acenaphthene-d10
Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
/chem/5972hp66.i/DS100523C66.b/0E24002-CAL1C66.d

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL1C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL1C66.d
Lab Smp Id: 0E24002-CAL1 Client Smp ID: SSTD0.40Y1
Inj Date : 24-MAY-2010 02:05
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD0.40Y1:2743
Misc Info : SSTD0.40Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 02:05 Cal File: 0E24002-CAL1C66.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

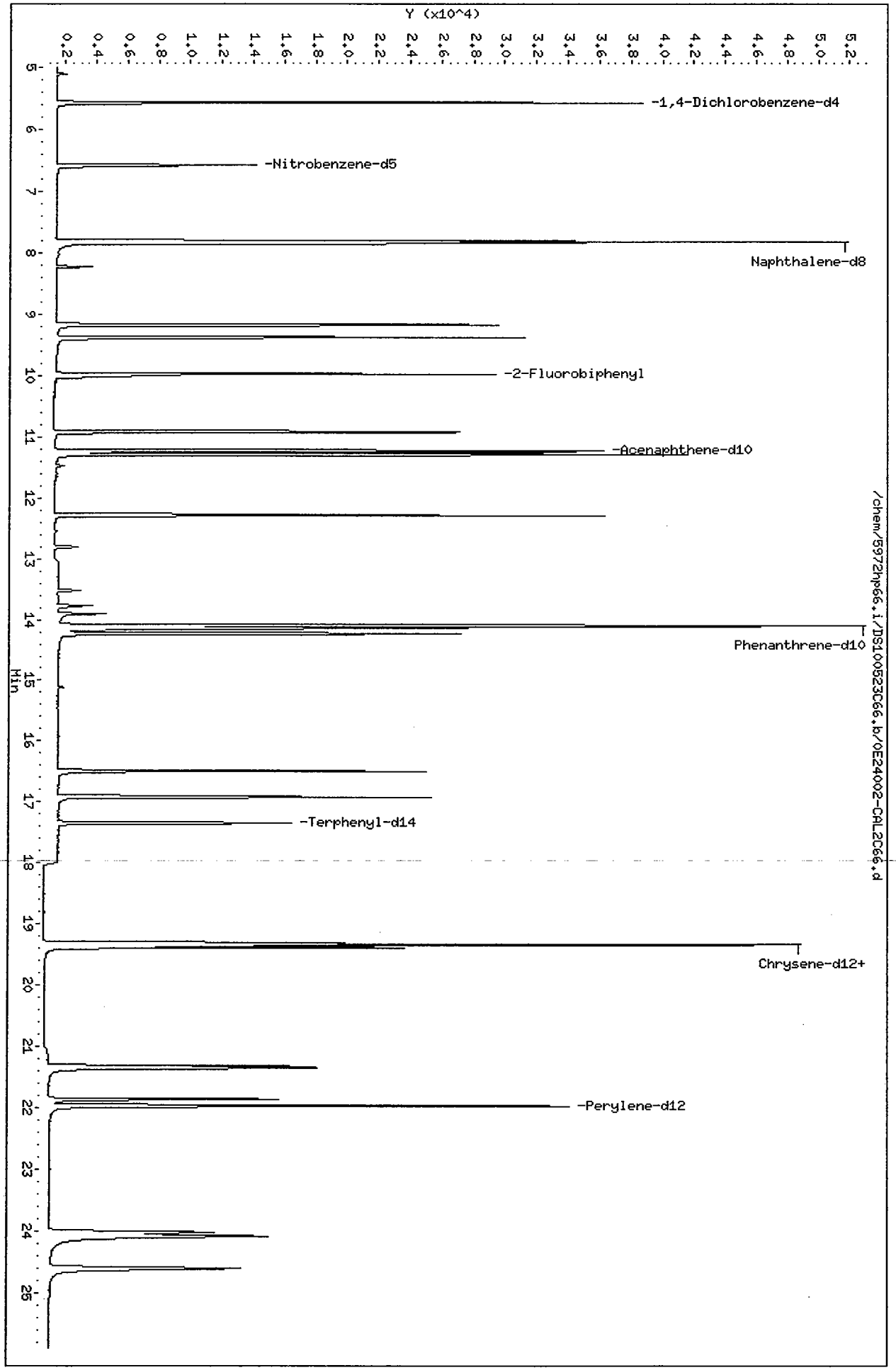
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.570	5.572	(1.000)	68855	2.00000	
*	2 Naphthalene-d8	136	7.812	7.814	(1.000)	258992	2.00000	
*	3 Acenaphthene-d10	164	11.230	11.230	(1.000)	118252	2.00000	
*	4 Phenanthrene-d10	188	14.101	14.101	(1.000)	237833	2.00000	
*	5 Chrysene-d12	240	19.335	19.344	(1.000)	204047	2.00000	
*	6 Perylene-d12	264	21.972	21.971	(1.000)	175711	2.00000	
$	9 Nitrobenzene-d5	82	6.587	6.576	(0.843)	19855	0.40000	0.37
$	10 2-Fluorobiphenyl	172	9.976	9.978	(0.888)	51684	0.40000	0.39
$	12 Terphenyl-d14	244	17.347	17.347	(0.897)	23531	0.40000	0.47
	13 Naphthalene	128	7.852	7.853	(1.005)	59031	0.40000	0.38
	15 2-Methylnaphthalene	141	9.181	9.170	(0.818)	29233	0.40000	0.38
	17 Acenaphthylene	152	10.917	10.917	(0.972)	47070	0.40000	0.38
	18 Acenaphthene	154	11.295	11.295	(1.006)	29046	0.40000	0.40
	21 Fluorene	166	12.286	12.285	(0.871)	32934	0.40000	0.44
	25 Phenanthrene	178	14.153	14.153	(1.004)	48665	0.40000	0.46

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL1C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	41454	0.40000	0.43
27 Fluoranthene	202	16.500	16.500	(0.853)	41741	0.40000	0.46
28 Pyrene	202	16.930	16.930	(0.876)	45079	0.40000	0.46
29 Benzo(a)anthracene	228	19.309	19.309	(0.999)	33251	0.40000	0.44
30 Chrysene	228	19.388	19.388	(1.003)	39954	0.40000	0.47
31 Benzo(b)fluoranthene	252	21.319	21.318	(0.970)	36625	0.40000	0.44
32 Benzo(k)fluoranthene	252	21.352	21.362	(0.972)	37923	0.40000	0.44
33 Benzo(a)pyrene	252	21.863	21.863	(0.995)	29153	0.40000	0.41
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.029	(1.093)	23710	0.40000	0.39
35 Dibenzo(a,h)anthracene	278	24.084	24.083	(1.096)	27054	0.40000	0.42
36 Benzo(g,h,i)perylene	276	24.606	24.616	(1.120)	30466	0.40000	0.43

MW 5/24/10


Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d
Date : 24-MAY-2010 03:13
Client ID: SSTD1.20Y1
Sample Info: SSTD1.20Y1;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^4)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
Phenanthrene-d10
-Terphenyl-d14
Chrysene-d12+
-Perylene-d12
/chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d
Min

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d
Lab Smp Id: 0E24002-CAL2 Client Smp ID: SSTD1.20Y1
Inj Date : 24-MAY-2010 03:13
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD1.20Y1:2743
Misc Info : SSTD1.20Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 03:13 Cal File: 0E24002-CAL2C66.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

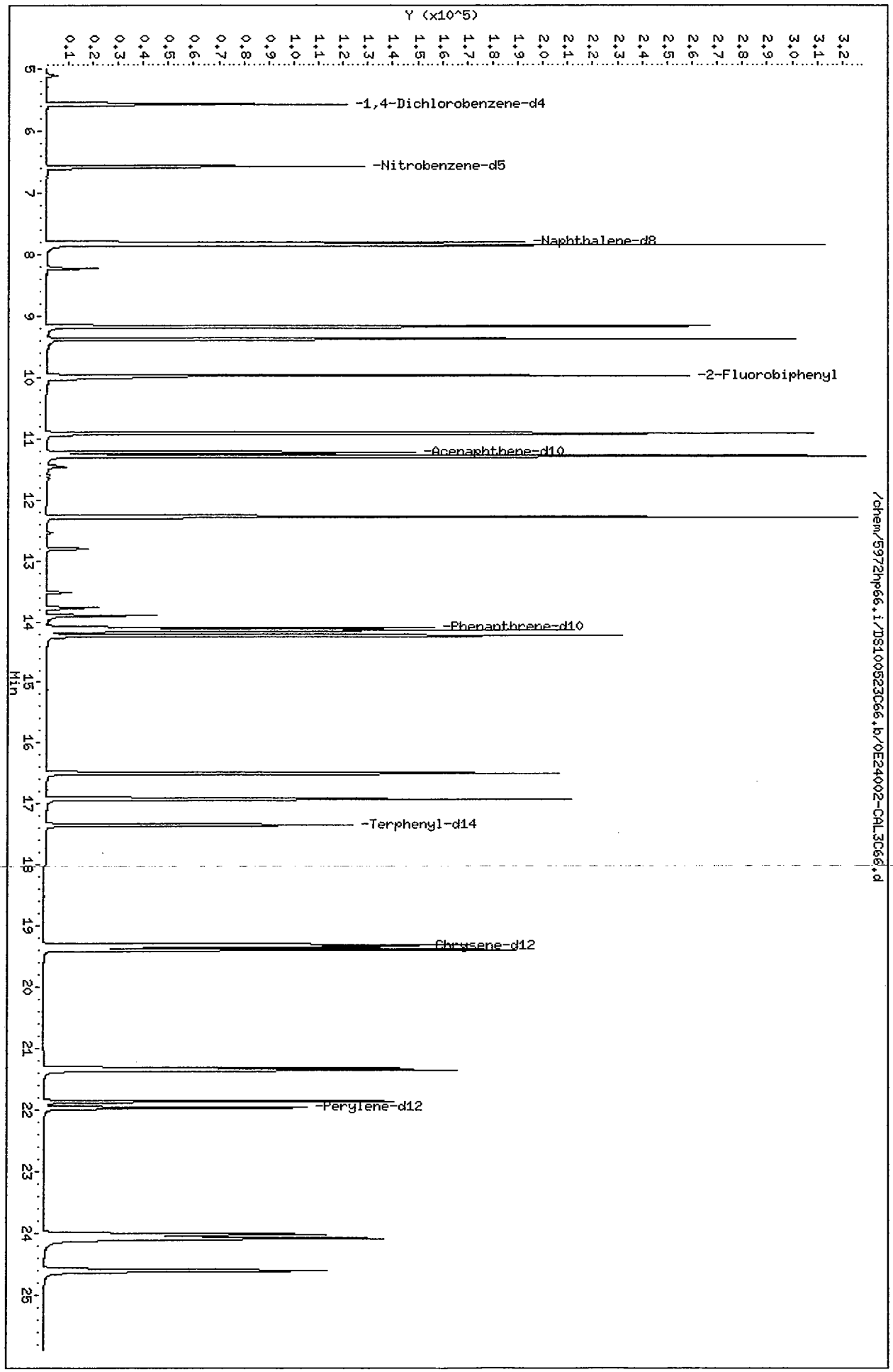
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.574	5.572	(1.000)	21366	2.00000	
* 2 Naphthalene-d8	136	7.816	7.814	(1.000)	64803	2.00000	
* 3 Acenaphthene-d10	164	11.231	11.230	(1.000)	29430	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	73585	2.00000	
* 5 Chrysene-d12	240	19.335	19.344	(1.000)	63396	2.00000	
* 6 Perylene-d12	264	21.972	21.971	(1.000)	54007	2.00000	
$ 9 Nitrobenzene-d5	82	6.590	6.576	(0.843)	16228	1.20000	1.2
$ 10 2-Fluorobiphenyl	172	9.979	9.978	(0.889)	38922	1.20000	1.2
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	17470	1.20000	1.1
13 Naphthalene	128	7.855	7.853	(1.005)	46976	1.20000	1.2
15 2-Methylnaphthalene	141	9.184	9.170	(0.818)	23006	1.20000	1.2
17 Acenaphthylene	152	10.918	10.917	(0.972)	35748	1.20000	1.1
18 Acenaphthene	154	11.296	11.295	(1.006)	21643	1.20000	1.2
21 Fluorene	166	12.286	12.285	(0.871)	24780	1.20000	1.1
25 Phenanthrene	178	14.153	14.153	(1.004)	37698	1.20000	1.1

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL2C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	31860	1.20000	1.1
27 Fluoranthene	202	16.500	16.500	(0.853)	31352	1.20000	1.1
28 Pyrene	202	16.930	16.930	(0.876)	34081	1.20000	1.1
29 Benzo(a)anthracene	228	19.309	19.309	(0.999)	23841	1.20000	1.0
30 Chrysene	228	19.388	19.388	(1.003)	30176	1.20000	1.2
31 Benzo(b)fluoranthene	252	21.319	21.318	(0.970)	26949	1.20000	1.1
32 Benzo(k)fluoranthene	252	21.363	21.362	(0.972)	29372	1.20000	1.1
33 Benzo(a)pyrene	252	21.863	21.863	(0.995)	22018	1.20000	1.0
34 Indeno(1,2,3-cd)pyrene	276	24.029	24.029	(1.094)	18366	1.20000	0.99
35 Dibenzo(a,h)anthracene	278	24.084	24.083	(1.096)	21943	1.20000	1.1
36 Benzo(g,h,i)perylene	276	24.606	24.616	(1.120)	24658	1.20000	1.1

MW 5/24/10


Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d
Date : 24-MAY-2010 00:57
Client ID: SSTD3.00Y1
Sample Info: SSTD3.00Y1,2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^5)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
Chrysene-d12
-Perylene-d12
/chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d
Lab Smp Id: 0E24002-CAL3 Client Smp ID: SSTD3.00Y1
Inj Date : 24-MAY-2010 00:57
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00Y1:2743
Misc Info : SSTD3.00Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 00:57 Cal File: 0E24002-CAL3C66.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

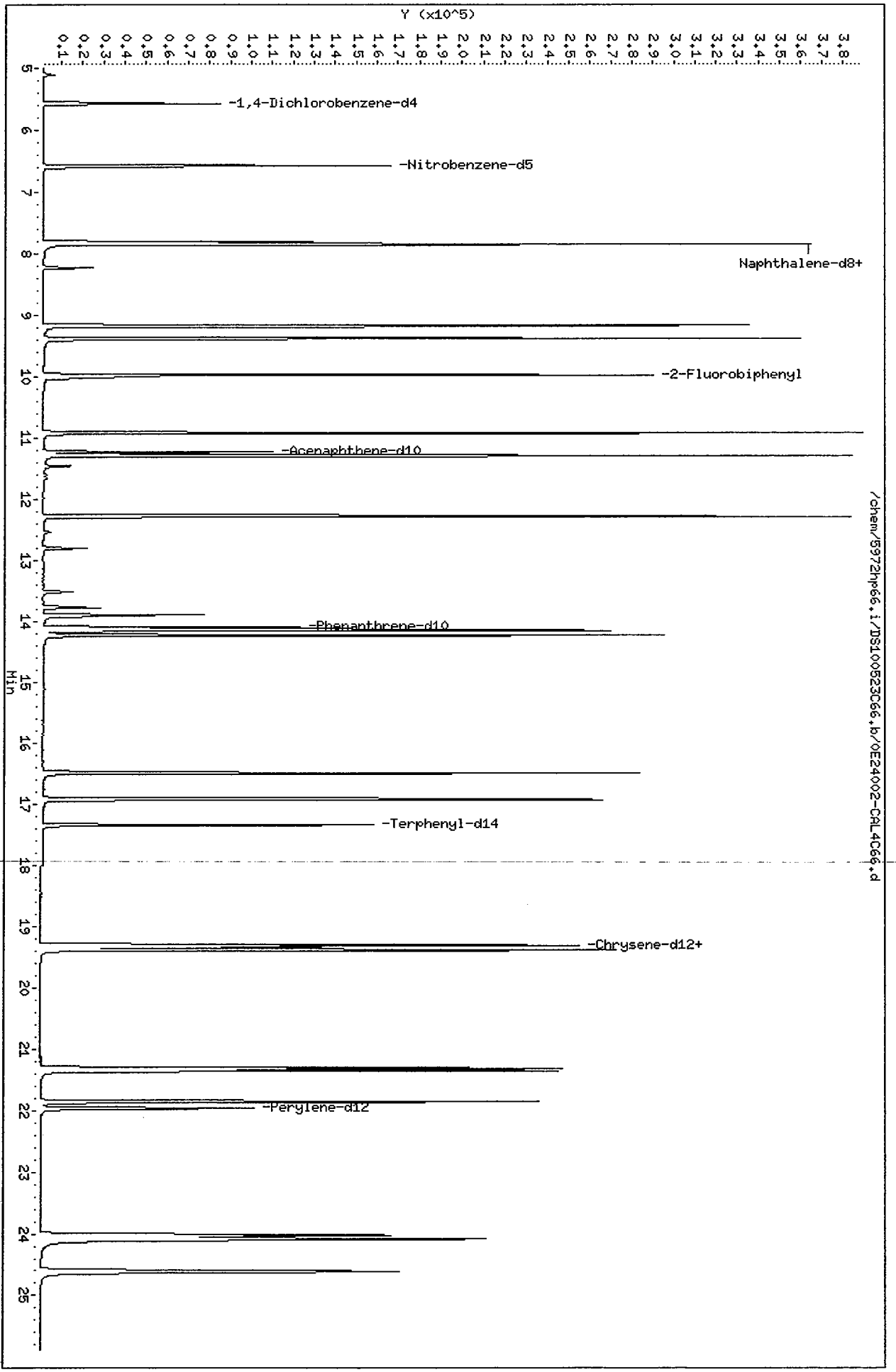
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.571	5.572	(1.000)	69281	2.00000	
* 2 Naphthalene-d8	136	7.813	7.814	(1.000)	243445	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.230	(1.000)	106660	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	220534	2.00000	
* 5 Chrysene-d12	240	19.336	19.344	(1.000)	185344	2.00000	
* 6 Perylene-d12	264	21.961	21.971	(1.000)	153215	2.00000	
$ 9 Nitrobenzene-d5	82	6.574	6.576	(0.841)	147663	3.00000	2.9
$ 10 2-Fluorobiphenyl	172	9.976	9.978	(0.888)	374921	3.00000	3.1
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	142827	3.00000	3.1
13 Naphthalene	128	7.852	7.853	(1.005)	430380	3.00000	3.0
15 2-Methylnaphthalene	141	9.168	9.170	(0.816)	215875	3.00000	3.1
17 Acenaphthylene	152	10.918	10.917	(0.972)	345534	3.00000	3.1
18 Acenaphthene	154	11.296	11.295	(1.006)	199235	3.00000	3.0
21 Fluorene	166	12.286	12.285	(0.871)	226363	3.00000	3.2
25 Phenanthrene	178	14.153	14.153	(1.004)	305721	3.00000	3.1

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL3C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	281799	3.00000	3.2
27 Fluoranthene	202	16.500	16.500	(0.853)	267962	3.00000	3.3
28 Pyrene	202	16.917	16.930	(0.875)	290331	3.00000	3.3
29 Benzo(a)anthracene	228	19.310	19.309	(0.999)	218625	3.00000	3.2
30 Chrysene	228	19.389	19.388	(1.003)	238695	3.00000	3.1
31 Benzo(b)fluoranthene	252	21.319	21.318	(0.971)	237900	3.00000	3.3
32 Benzo(k)fluoranthene	252	21.351	21.362	(0.972)	236893	3.00000	3.1
33 Benzo(a)pyrene	252	21.863	21.863	(0.996)	200781	3.00000	3.2
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.029	(1.094)	174972	3.00000	3.3
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.097)	180592	3.00000	3.2
36 Benzo(g,h,i)perylene	276	24.606	24.616	(1.120)	197994	3.00000	3.2

MV 5/24/10


Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL4C66.d
Date : 24-MAY-2010 02:39
Client ID: SSTD5,00Y1
Sample Info: SSTD5,00Y1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^5)
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8+
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
/chem/5972hp66.i/DS100523C66.b/0E24002-CAL4C66.d

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL4C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL4C66.d
Lab Smp Id: 0E24002-CAL4 Client Smp ID: SSTD5.00Y1
Inj Date : 24-MAY-2010 02:39
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD5.00Y1:2743
Misc Info : SSTD5.00Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 02:39 Cal File: 0E24002-CAL4C66.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

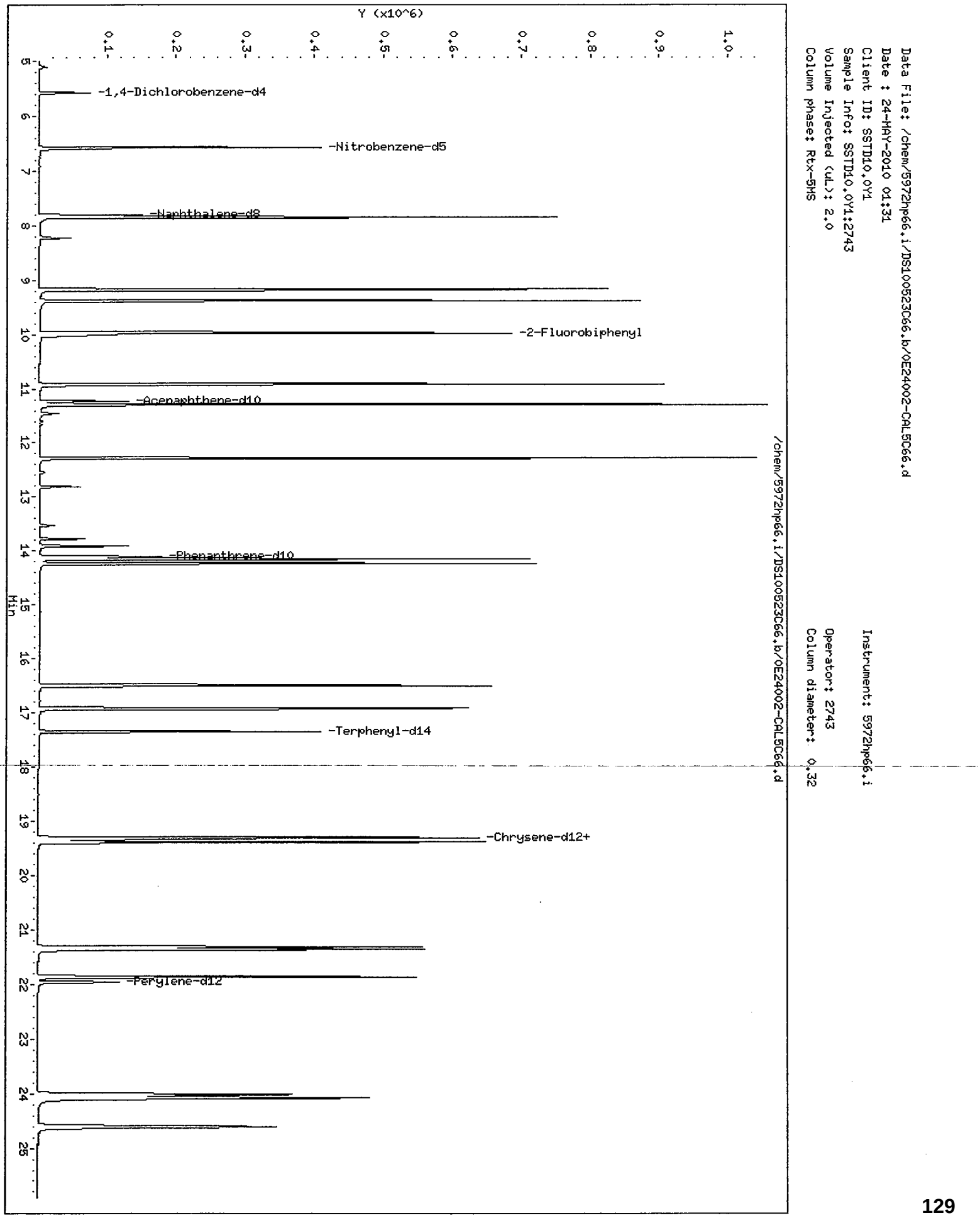
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.570	5.572	(1.000)	45697	2.00000	
* 2 Naphthalene-d8	136	7.812	7.814	(1.000)	162971	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.230	(1.000)	76136	2.00000	
* 4 Phenanthrene-d10	188	14.100	14.101	(1.000)	168732	2.00000	
* 5 Chrysene-d12	240	19.337	19.344	(1.000)	164637	2.00000	
* 6 Perylene-d12	264	21.971	21.971	(1.000)	140343	2.00000	
$ 9 Nitrobenzene-d5	82	6.574	6.576	(0.841)	180251	5.00000	5.3
$ 10 2-Fluorobiphenyl	172	9.976	9.978	(0.888)	443396	5.00000	5.2
$ 12 Terphenyl-d14	244	17.346	17.347	(0.897)	195432	5.00000	4.8
13 Naphthalene	128	7.851	7.853	(1.005)	502680	5.00000	5.2
15 2-Methylnaphthalene	141	9.168	9.170	(0.816)	255914	5.00000	5.2
17 Acenaphthylene	152	10.917	10.917	(0.972)	423270	5.00000	5.2
18 Acenaphthene	154	11.295	11.295	(1.006)	244035	5.00000	5.2
21 Fluorene	166	12.285	12.285	(0.871)	283328	5.00000	5.3
25 Phenanthrene	178	14.152	14.153	(1.004)	390438	5.00000	5.1

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL4C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.230	14.231	(1.009)	362331	5.00000	5.3
27 Fluoranthene	202	16.499	16.500	(0.853)	360115	5.00000	4.9
28 Pyrene	202	16.929	16.930	(0.875)	395105	5.00000	5.0
29 Benzo(a)anthracene	228	19.311	19.309	(0.999)	314823	5.00000	5.2
30 Chrysene	228	19.389	19.388	(1.003)	334868	5.00000	4.9
31 Benzo(b)fluoranthene	252	21.318	21.318	(0.970)	337105	5.00000	5.1
32 Benzo(k)fluoranthene	252	21.362	21.362	(0.972)	366287	5.00000	5.3
33 Benzo(a)pyrene	252	21.862	21.863	(0.995)	306954	5.00000	5.4
34 Indeno(1,2,3-cd)pyrene	276	24.028	24.029	(1.094)	277381	5.00000	5.7
35 Dibenzo(a,h)anthracene	278	24.094	24.083	(1.097)	279934	5.00000	5.4
36 Benzo(g,h,i)perylene	276	24.616	24.616	(1.120)	295397	5.00000	5.3

MY 5/24/10


Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d
Date : 24-MAY-2010 01:31
Client ID: SSTD10,0Y1
Sample Info: SSTD10,0Y1;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
Min
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12
/chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d
Report Date: 24-May-2010 06:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d
Lab Smp Id: 0E24002-CAL5 Client Smp ID: SSTD10.0Y1
Inj Date : 24-MAY-2010 01:31
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD10.0Y1:2743
Misc Info : SSTD10.0Y1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100523C66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 06:09 mweichel Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.572	5.572	(1.000)	41793	2.00000	
* 2 Naphthalene-d8	136	7.814	7.814	(1.000)	187470	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.230	(1.000)	96859	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	252476	2.00000	
* 5 Chrysene-d12	240	19.344	19.344	(1.000)	225013	2.00000	
* 6 Perylene-d12	264	21.971	21.971	(1.000)	179916	2.00000	
$ 9 Nitrobenzene-d5	82	6.576	6.576	(0.842)	407513	10.0000	10(A)
$ 10 2-Fluorobiphenyl	172	9.978	9.978	(0.889)	1047568	10.0000	9.6
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	489586	10.0000	8.8
13 Naphthalene	128	7.853	7.853	(1.005)	1096472	10.0000	9.9
15 2-Methylnaphthalene	141	9.170	9.170	(0.817)	599104	10.0000	9.6
17 Acenaphthylene	152	10.917	10.917	(0.972)	1067600	10.0000	10(A)
18 Acenaphthene	154	11.295	11.295	(1.006)	599145	10.0000	9.9
21 Fluorene	166	12.285	12.285	(0.871)	709805	10.0000	8.9
25 Phenanthrene	178	14.153	14.153	(1.004)	969748	10.0000	8.5

MW 5/24/10

Data File: /chem/5972hp66.i/DS100523C66.b/0E24002-CAL5C66.d
Report Date: 24-May-2010 06:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	913853	10.0000	9.0
27 Fluoranthene	202	16.500	16.500	(0.853)	838783	10.0000	8.4
28 Pyrene	202	16.930	16.930	(0.875)	914060	10.0000	8.4
29 Benzo(a)anthracene	228	19.309	19.309	(0.998)	770054	10.0000	9.3
30 Chrysene	228	19.388	19.388	(1.002)	775349	10.0000	8.3
31 Benzo(b)fluoranthene	252	21.318	21.318	(0.970)	778902	10.0000	9.1
32 Benzo(k)fluoranthene	252	21.362	21.362	(0.972)	803964	10.0000	9.0
33 Benzo(a)pyrene	252	21.863	21.863	(0.995)	706349	10.0000	9.7
34 Indeno(1,2,3-cd)pyrene	276	24.029	24.029	(1.094)	589093	10.0000	9.5
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.096)	603003	10.0000	9.1
36 Benzo(g,h,i)perylene	276	24.616	24.616	(1.120)	601643	10.0000	8.4

MW 5/24/10

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/24/10 INITIAL TIME OF TUNE 0055 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1255
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM DoD SIM: (Y) N)
PREVENTIVE MAINTENANCE NONE

	SEQUENCE#	INJECTED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OE24002		ASCANA66	✓	5/24/10	0023	SSTD 3.00	—	2µL	2743	SCD=ICD
2	S100523C		N/A	✓		0055	FC43	—	N/A		
3			OE24002-CAL3C66	✓		0057	SSTD 3.00 Y1	—	2µL		OE18007 8/18/10
4			CAL5C66	✓		0131	10.0 Y1	—			10
5			CAL1C66	✓		0205	0.40 Y1	—			05
6			CAL4C66	✓		0239	5.00 Y1	—			09
7			CAL2C66	✓		0313	1.20 Y1	—			06
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: See Comments
Internal STD Lot#/Exp. Date: 040 OE18001 11/18/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/11
Column Type: RTX-5MS 0.32m

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: DF DATE 5/24/10

6/01/09:jr

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: 5972HP66 Calibration Date(s): 05/25/10 05/25/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0601 0816

LAB FILE ID: RF0.4: 0E25001-CALRF1.2: 0E25001-CALRF3: 0E25001-CAL3C
RF5: 0E25001-CAL4CRF10: 0E25001-CAL5

COMPOUND	RF0.4	RF1.2	RF3	RF5	RF10
Naphthalene	1.336	1.232	1.203	1.227	1.187
2-Methylnaphthalene	1.514	1.368	1.333	1.434	1.510
Acenaphthylene	2.329	2.103	2.170	2.345	2.222
Acenaphthene	1.345	1.283	1.276	1.362	1.278
Fluorene	0.920	0.852	0.902	0.929	1.076
Phenanthrene	1.257	1.224	1.234	1.266	1.254
Anthracene	1.113	1.079	1.108	1.166	1.143
Fluoranthene	1.259	1.240	1.322	1.342	1.468
Pyrene	1.382	1.385	1.435	1.451	1.568
Benzo(a)anthracene	1.047	1.069	1.114	1.124	1.082
Chrysene	1.184	1.172	1.171	1.195	1.165
Benzo(b)fluoranthene	1.264	1.307	1.309	1.344	1.370
Benzo(k)fluoranthene	1.426	1.364	1.448	1.422	1.437
Benzo(a)pyrene	1.103	1.133	1.223	1.243	1.242
Indeno(1,2,3-cd)pyrene	0.982	1.023	1.058	1.106	1.074
Dibenzo(a,h)anthracene	0.975	1.031	1.043	1.076	1.062
Benzo(g,h,i)perylene	1.145	1.149	1.170	1.165	1.183
Nitrobenzene-d5	0.425	0.446	0.430	0.469	0.455
2-Fluorobiphenyl	1.885	2.209	2.161	1.791	2.388
Terphenyl-d14	0.709	0.705	0.741	0.724	0.755

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: 5972HP66 Calibration Date(s): 05/25/10 05/25/10

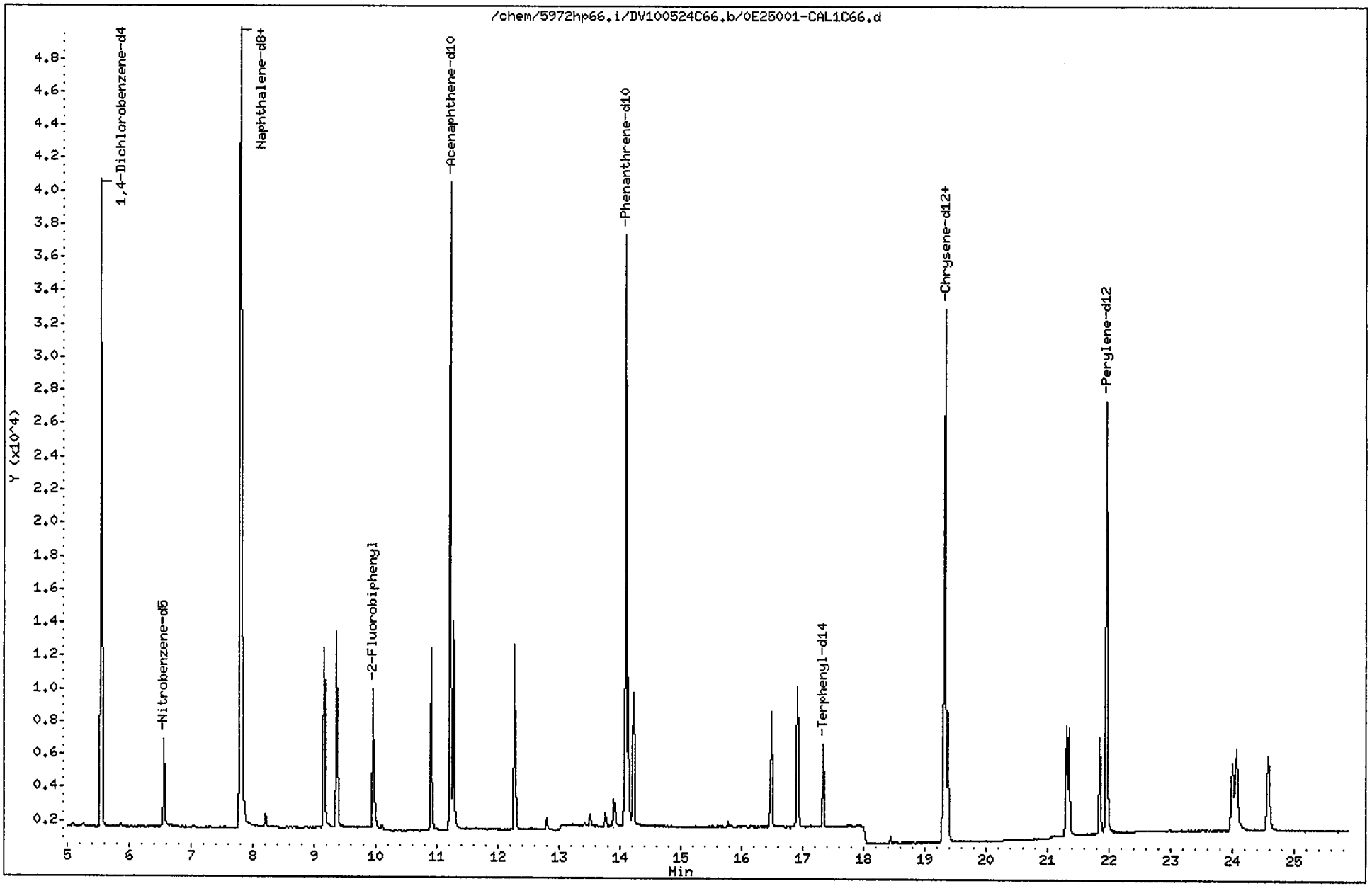
Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0601 0816

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	AVRG	1.23709039	4.686	15.000
2-Methylnaphthalene	AVRG	1.43192718	5.709	15.000
Acenaphthylene	AVRG	2.23404611	4.628	15.000
Acenaphthene	AVRG	1.30892901	3.163	30.000
Fluorene	AVRG	0.93602321	8.970	15.000
Phenanthrene	AVRG	1.24712484	1.393	15.000
Anthracene	AVRG	1.12176747	3.022	15.000
Fluoranthene	AVRG	1.32618091	6.795	30.000
Pyrene	AVRG	1.44424098	5.249	15.000
Benzo(a)anthracene	AVRG	1.08720605	2.923	15.000
Chrysene	AVRG	1.17758875	1.029	15.000
Benzo(b)fluoranthene	AVRG	1.31897490	3.040	15.000
Benzo(k)fluoranthene	AVRG	1.41939457	2.307	15.000
Benzo(a)pyrene	AVRG	1.18861343	5.540	30.000
Indeno(1,2,3-cd)pyrene	AVRG	1.04861310	4.548	15.000
Dibenzo(a,h)anthracene	AVRG	1.03728761	3.747	15.000
Benzo(g,h,i)perylene	AVRG	1.16224716	1.330	15.000
Nitrobenzene-d5	AVRG	0.44503818	4.056	15.000
2-Fluorobiphenyl	AVRG	2.08703947	11.716	15.000
Terphenyl-d14	AVRG	0.72668507	2.913	15.000

FORM VI SV

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Date : 25-MAY-2010 07:09
Client ID: SSTD0.40Y2
Sample Info: SSTD0.40Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Lab Smp Id: 0E25001-CAL1 Client Smp ID: SSTD0.40Y2
Inj Date : 25-MAY-2010 07:09
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD0.40Y2:2743
Misc Info : SSTD0.40Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 07:09 Cal File: 0E25001-CAL1C66.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

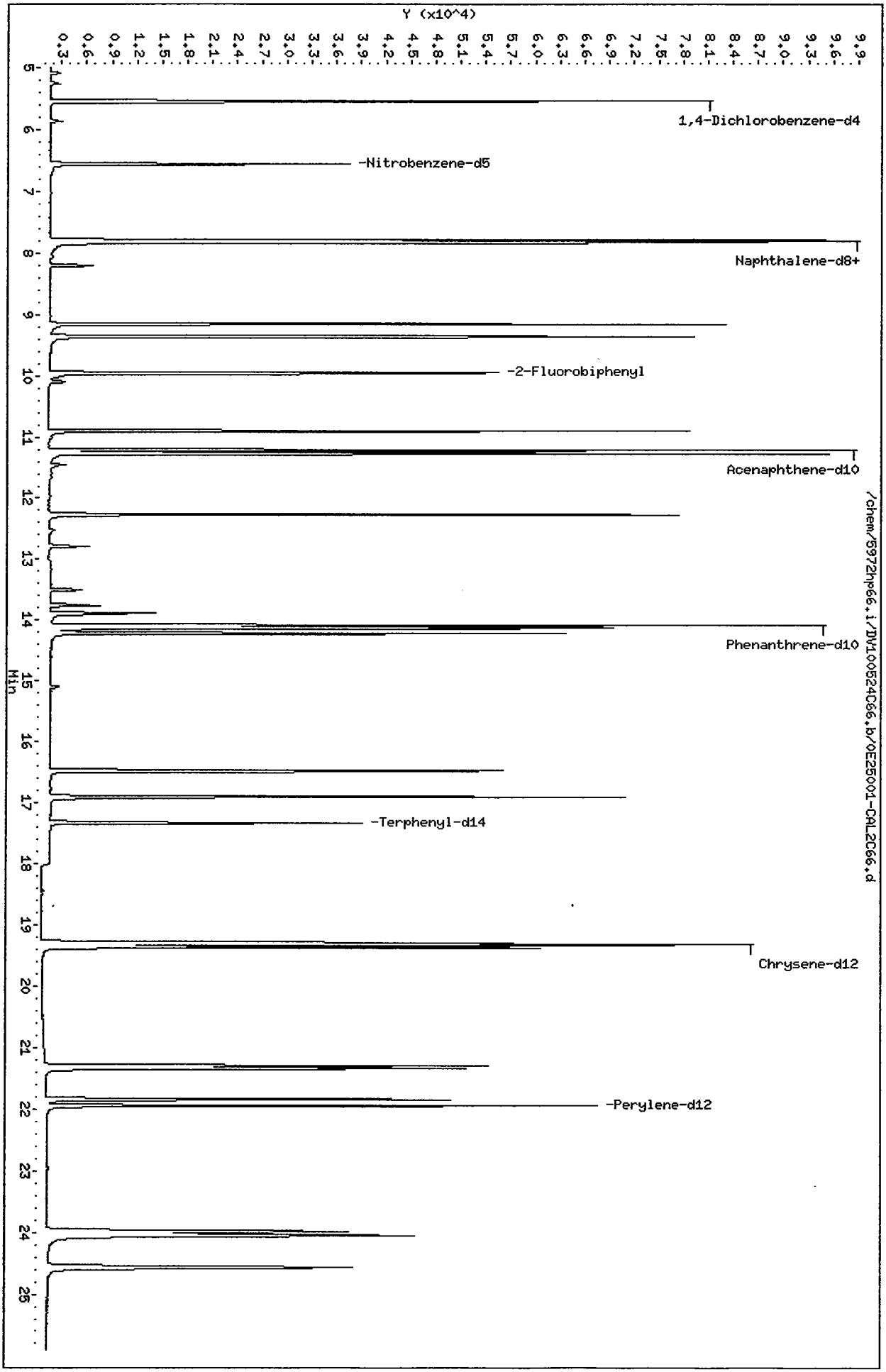
Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	21673	2.00000	
2 Naphthalene-d8	136	7.799	7.802	(1.000)	68713	2.00000	
3 Acenaphthene-d10	164	11.217	11.218	(1.000)	28135	2.00000	
4 Phenanthrene-d10	188	14.088	14.087	(1.000)	47752	2.00000	
5 Chrysene-d12	240	19.318	19.319	(1.000)	42145	2.00000	
6 Perylene-d12	264	21.950	21.949	(1.000)	36854	2.00000	
9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	5841	0.40000	0.40
10 2-Fluorobiphenyl	172	9.963	9.952	(0.888)	10609	0.40000	0.37
12 Terphenyl-d14	244	17.334	17.333	(0.897)	5977	0.40000	0.39
13 Naphthalene	128	7.825	7.828	(1.003)	18354	0.40000	0.42
15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	8519	0.40000	0.43
17 Acenaphthylene	152	10.904	10.905	(0.972)	13107	0.40000	0.41
18 Acenaphthene	154	11.269	11.270	(1.005)	7568	0.40000	0.41
21 Fluorene	166	12.273	12.274	(0.871)	8792	0.40000	0.40
25 Phenanthrene	178	14.127	14.126	(1.003)	12002	0.40000	0.40

TM 5/28/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	10627	0.40000	0.40
27 Fluoranthene	202	16.487	16.486	(0.853)	10612	0.40000	0.39
28 Pyrene	202	16.904	16.903	(0.875)	11647	0.40000	0.39
29 Benzo(a)anthracene	228	19.292	19.293	(0.999)	8829	0.40000	0.39
30 Chrysene	228	19.370	19.371	(1.003)	9984	0.40000	0.40
31 Benzo(b)fluoranthene	252	21.297	21.296	(0.970)	9319	0.40000	0.39
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	10515	0.40000	0.40
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	8130	0.40000	0.38
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	7238	0.40000	0.39
35 Dibenzo(a,h)anthracene	278	24.061	24.061	(1.096)	7186	0.40000	0.39
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	8441	0.40000	0.40


Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Date : 25-MAY-2010 08:16
Client ID: SSTD1.20Y2
Sample Info: SSTD1.20Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^4)
1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8+
-2-Fluorobiphenyl
Acenaphthene-d10
Phenanthrene-d10
-Terphenyl-d14
Chrysene-d12
-Perylene-d12
Min
/chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Lab Smp Id: 0E25001-CAL2 Client Smp ID: SSTD1.20Y2
Inj Date : 25-MAY-2010 08:16
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD1.20Y2:2743
Misc Info : SSTD1.20Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1	1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	42756	2.00000	
2	Naphthalene-d8	136	7.799	7.802	(1.000)	151009	2.00000	
3	Acenaphthene-d10	164	11.217	11.218	(1.000)	69374	2.00000	
4	Phenanthrene-d10	188	14.088	14.087	(1.000)	121694	2.00000	
5	Chrysene-d12	240	19.318	19.319	(1.000)	108693	2.00000	
6	Perylene-d12	264	21.950	21.949	(1.000)	94345	2.00000	
9	Nitrobenzene-d5	82	6.561	6.563	(0.841)	40366	1.20000	1.2
10	2-Fluorobiphenyl	172	9.963	9.952	(0.888)	91960	1.20000	1.3
12	Terphenyl-d14	244	17.334	17.333	(0.897)	45962	1.20000	1.2
13	Naphthalene	128	7.825	7.828	(1.003)	111671	1.20000	1.2
15	2-Methylnaphthalene	141	9.155	9.157	(0.816)	56927	1.20000	1.1
17	Acenaphthylene	152	10.904	10.905	(0.972)	87547	1.20000	1.1
18	Acenaphthene	154	11.269	11.270	(1.005)	53389	1.20000	1.2
21	Fluorene	166	12.273	12.274	(0.871)	62225	1.20000	1.1
25	Phenanthrene	178	14.127	14.126	(1.003)	89360	1.20000	1.2

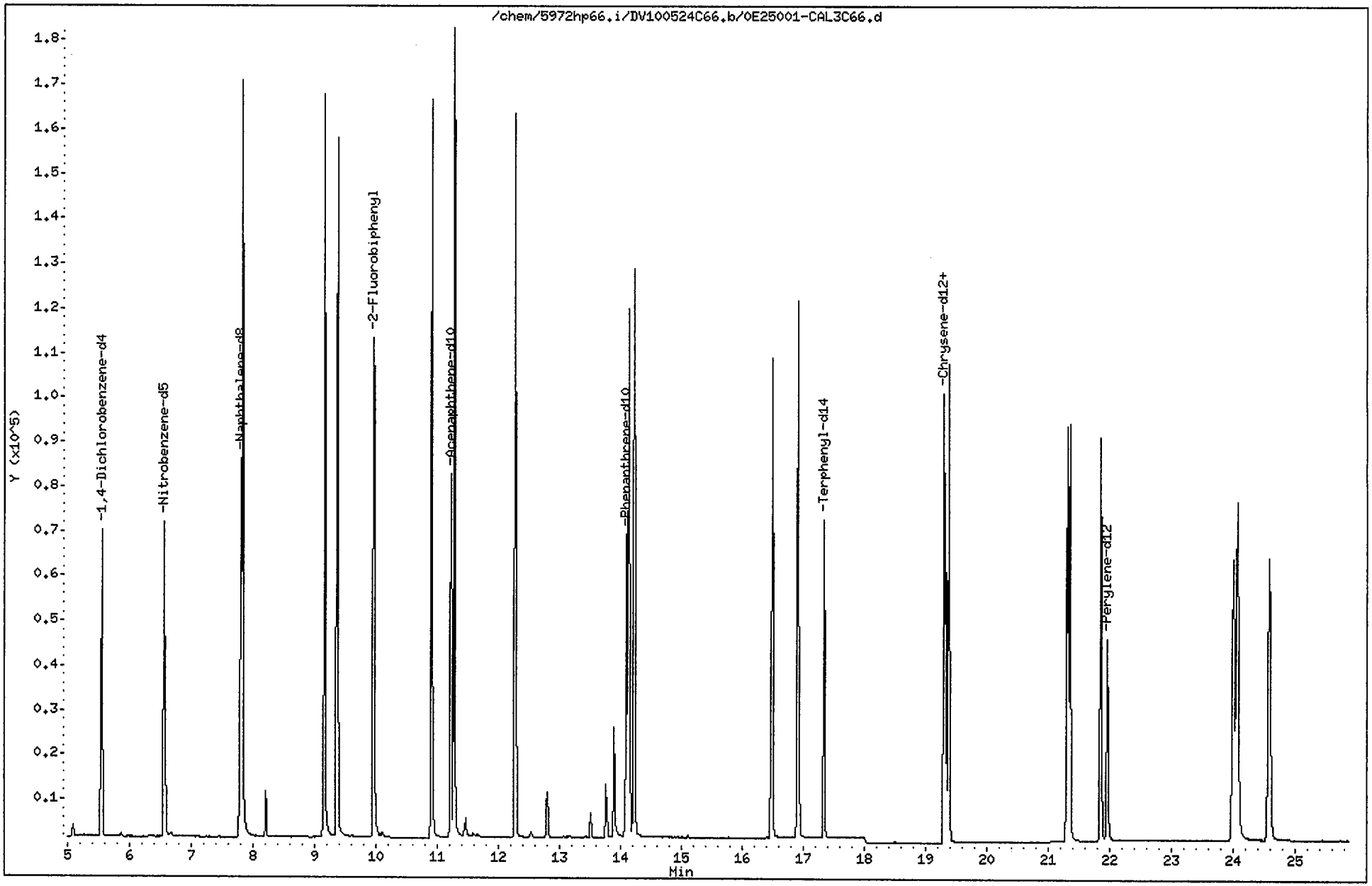
Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	78760	1.20000	1.2
27 Fluoranthene	202	16.486	16.486	(0.853)	80846	1.20000	1.1
28 Pyrene	202	16.904	16.903	(0.875)	90310	1.20000	1.2
29 Benzo(a)anthracene	228	19.291	19.293	(0.999)	69695	1.20000	1.2
30 Chrysene	228	19.370	19.371	(1.003)	76404	1.20000	1.2
31 Benzo(b)fluoranthene	252	21.296	21.296	(0.970)	74012	1.20000	1.2
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	77185	1.20000	1.2
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	64130	1.20000	1.1
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	57928	1.20000	1.2
35 Dibenzo(a,h)anthracene	278	24.050	24.061	(1.096)	58355	1.20000	1.2
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	65035	1.20000	1.2

TIR 5/28/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Date : 25-MAY-2010 06:01
Client ID: SSTD3.00Y2
Sample Info: SSTD3.00Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Lab Smp Id: 0E25001-CAL3 Client Smp ID: SSTD3.00Y2
Inj Date : 25-MAY-2010 06:01
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00Y2:2743
Misc Info : SSTD3.00Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1	1,4-Dichlorobenzene-d4	152	5.547	5.547	(1.000)	37182	2.00000	
2	Naphthalene-d8	136	7.802	7.802	(1.000)	125435	2.00000	
3	Acenaphthene-d10	164	11.218	11.218	(1.000)	56129	2.00000	
4	Phenanthrene-d10	188	14.087	14.087	(1.000)	92434	2.00000	
5	Chrysene-d12	240	19.319	19.319	(1.000)	75031	2.00000	
6	Perylene-d12	264	21.949	21.949	(1.000)	62246	2.00000	
9	Nitrobenzene-d5	82	6.563	6.563	(0.841)	80993	3.00000	2.9
10	2-Fluorobiphenyl	172	9.952	9.952	(0.887)	181927	3.00000	3.1
12	Terphenyl-d14	244	17.333	17.333	(0.897)	83431	3.00000	3.1
13	Naphthalene	128	7.828	7.828	(1.003)	226427	3.00000	2.9
15	2-Methylnaphthalene	141	9.157	9.157	(0.816)	112252	3.00000	2.8
17	Acenaphthylene	152	10.905	10.905	(0.972)	182733	3.00000	2.9
18	Acenaphthene	154	11.270	11.270	(1.005)	107472	3.00000	2.9
21	Fluorene	166	12.274	12.274	(0.871)	125051	3.00000	2.9
25	Phenanthrene	178	14.126	14.126	(1.003)	171164	3.00000	3.0

5/25/10

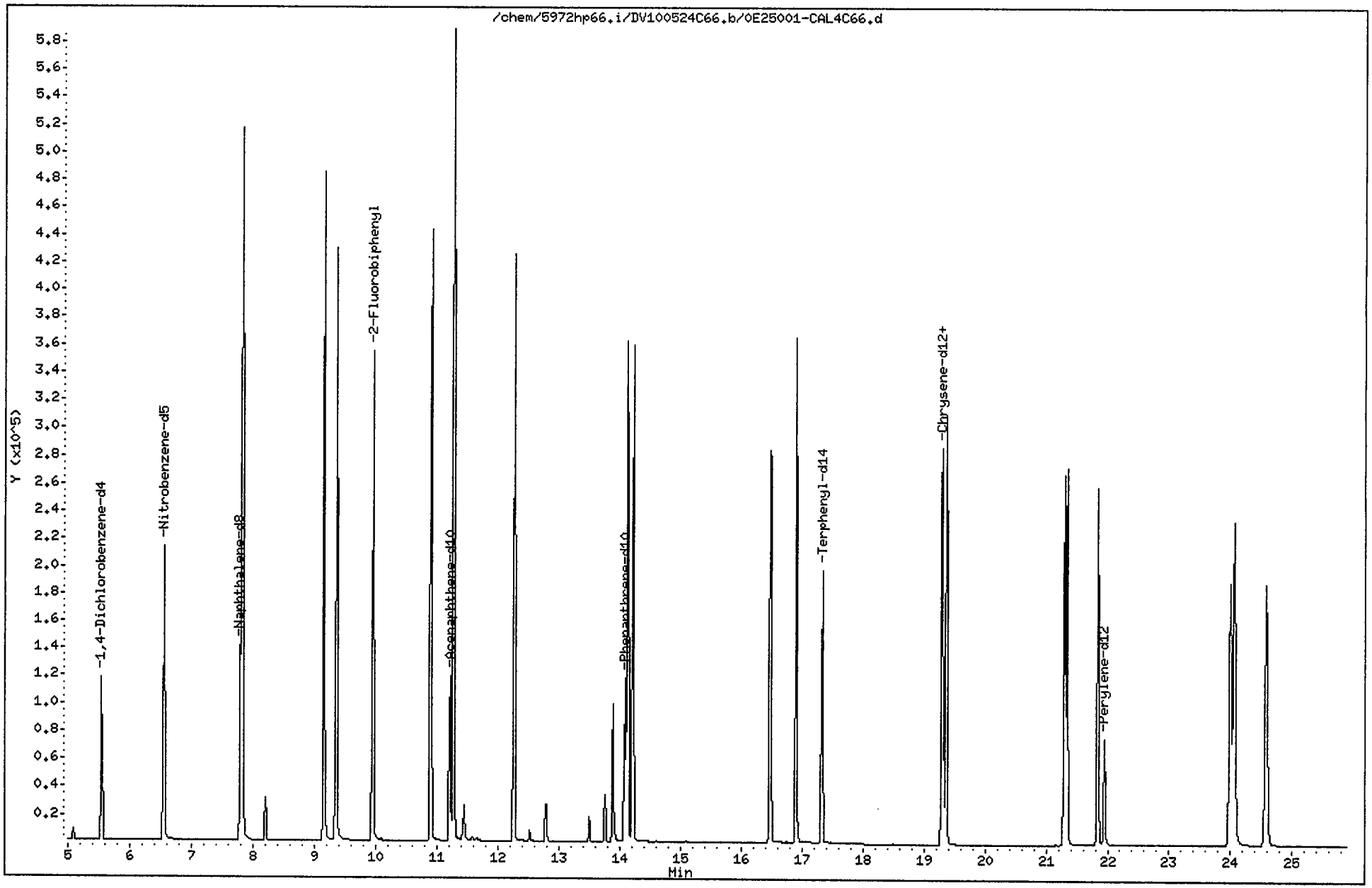
Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.217	14.217	(1.009)	153579	3.00000	3.0
27 Fluoranthene	202	16.486	16.486	(0.853)	148807	3.00000	3.0
28 Pyrene	202	16.903	16.903	(0.875)	161512	3.00000	3.0
29 Benzo(a)anthracene	228	19.293	19.293	(0.999)	125381	3.00000	3.1
30 Chrysene	228	19.371	19.371	(1.003)	131836	3.00000	3.0
31 Benzo(b)fluoranthene	252	21.296	21.296	(0.970)	122234	3.00000	3.0
32 Benzo(k)fluoranthene	252	21.339	21.339	(0.972)	135163	3.00000	3.1
33 Benzo(a)pyrene	252	21.840	21.840	(0.995)	114164	3.00000	3.1
34 Indeno(1,2,3-cd)pyrene	276	23.995	23.995	(1.093)	98749	3.00000	3.0
35 Dibenzo(a,h)anthracene	278	24.061	24.061	(1.096)	97384	3.00000	3.0
36 Benzo(g,h,i)perylene	276	24.572	24.572	(1.119)	109200	3.00000	3.0

DMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Date : 25-MAY-2010 07:43
Client ID: SSTD5.00Y2
Sample Info: SSTD5.00Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Lab Smp Id: 0E25001-CAL4 Client Smp ID: SSTD5.00Y2
Inj Date : 25-MAY-2010 07:43
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD5.00Y2:2743
Misc Info : SSTD5.00Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 07:43 Cal File: 0E25001-CAL4C66.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1 1,4-Dichlorobenzene-d4	152	5.543	5.547	(1.000)	63425	2.00000	
2 Naphthalene-d8	136	7.785	7.802	(1.000)	216429	2.00000	
3 Acenaphthene-d10	164	11.218	11.218	(1.000)	91925	2.00000	
4 Phenanthrene-d10	188	14.087	14.087	(1.000)	154139	2.00000	
5 Chrysene-d12	240	19.318	19.319	(1.000)	128222	2.00000	
6 Perylene-d12	264	21.951	21.949	(1.000)	108520	2.00000	
9 Nitrobenzene-d5	82	6.547	6.563	(0.841)	254021	5.00000	5.3
10 2-Fluorobiphenyl	172	9.949	9.952	(0.887)	411699	5.00000	4.4
12 Terphenyl-d14	244	17.333	17.333	(0.897)	231964	5.00000	4.9
13 Naphthalene	128	7.824	7.828	(1.005)	663758	5.00000	5.0
15 2-Methylnaphthalene	141	9.154	9.157	(0.816)	329678	5.00000	5.0
17 Acenaphthylene	152	10.905	10.905	(0.972)	538984	5.00000	5.2
18 Acenaphthene	154	11.270	11.270	(1.005)	313112	5.00000	5.2
21 Fluorene	166	12.274	12.274	(0.871)	357974	5.00000	4.9
25 Phenanthrene	178	14.126	14.126	(1.003)	487877	5.00000	5.1

TM 5/25/10

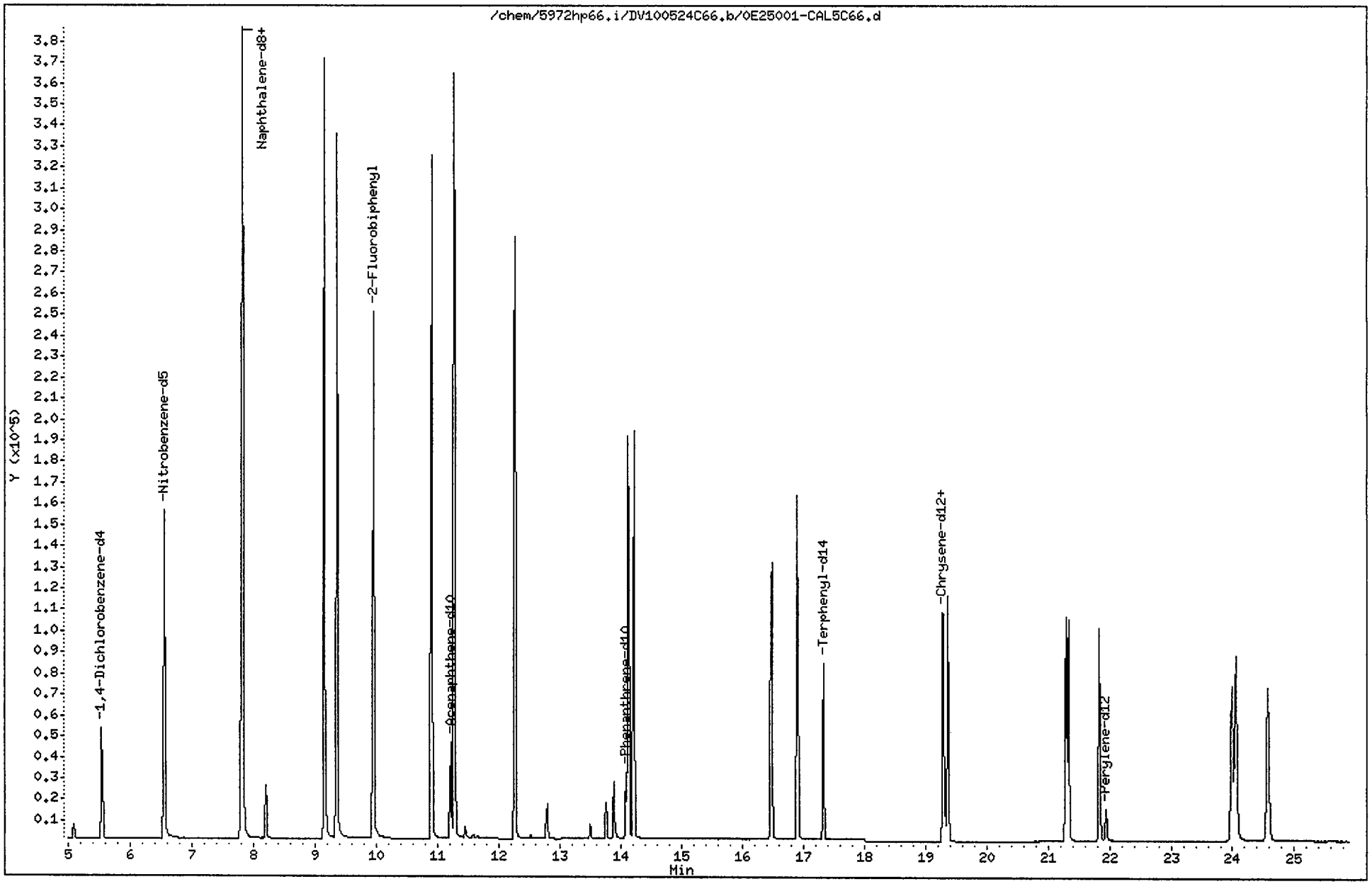
Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.217	14.217	(1.009)	449448	5.00000	5.1
27 Fluoranthene	202	16.486	16.486	(0.853)	430074	5.00000	5.0
28 Pyrene	202	16.903	16.903	(0.875)	465169	5.00000	5.0
29 Benzo(a)anthracene	228	19.292	19.293	(0.999)	360361	5.00000	5.1
30 Chrysene	228	19.371	19.371	(1.003)	383149	5.00000	5.1
31 Benzo(b)fluoranthene	252	21.298	21.296	(0.970)	364676	5.00000	5.1
32 Benzo(k)fluoranthene	252	21.341	21.339	(0.972)	385853	5.00000	5.0
33 Benzo(a)pyrene	252	21.842	21.840	(0.995)	337158	5.00000	5.2
34 Indeno(1,2,3-cd)pyrene	276	23.997	23.995	(1.093)	300043	5.00000	5.2
35 Dibenzo(a,h)anthracene	278	24.063	24.061	(1.096)	291827	5.00000	5.2
36 Benzo(g,h,i)perylene	276	24.574	24.572	(1.119)	315969	5.00000	5.0

TAP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Date : 25-MAY-2010 06:35
Client ID: SSTD10.0Y2
Sample Info: SSTD10.0Y2:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Lab Smp Id: 0E25001-CAL5 Client Smp ID: SSTD10.0Y2
Inj Date : 25-MAY-2010 06:35
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD10.0Y2:2743
Misc Info : SSTD10.0Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 06:35 Cal File: 0E25001-CAL5C66.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
1	1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	29337	2.00000	
2	Naphthalene-d8	136	7.799	7.802	(1.000)	86160	2.00000	
3	Acenaphthene-d10	164	11.217	11.218	(1.000)	32564	2.00000	
4	Phenanthrene-d10	188	14.087	14.087	(1.000)	41430	2.00000	
5	Chrysene-d12	240	19.319	19.319	(1.000)	26559	2.00000	
6	Perylene-d12	264	21.950	21.949	(1.000)	21293	2.00000	
9	Nitrobenzene-d5	82	6.561	6.563	(0.841)	195887	10.0000	10(A)
10	2-Fluorobiphenyl	172	9.950	9.952	(0.887)	388859	10.0000	11(A)
12	Terphenyl-d14	244	17.334	17.333	(0.897)	100210	10.0000	10(A)
13	Naphthalene	128	7.825	7.828	(1.003)	511461	10.0000	9.6
15	2-Methylnaphthalene	141	9.155	9.157	(0.816)	245895	10.0000	10(A)
17	Acenaphthylene	152	10.904	10.905	(0.972)	361779	10.0000	9.9
18	Acenaphthene	154	11.269	11.270	(1.005)	208101	10.0000	9.8
21	Fluorene	166	12.272	12.274	(0.871)	222986	10.0000	11(A)
25	Phenanthrene	178	14.126	14.126	(1.003)	259875	10.0000	10(A)

DMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	236864	10.0000	10(A)
27 Fluoranthene	202	16.486	16.486	(0.853)	194996	10.0000	11(A)
28 Pyrene	202	16.904	16.903	(0.875)	208279	10.0000	11(A)
29 Benzo(a)anthracene	228	19.293	19.293	(0.999)	143641	10.0000	10(A)
30 Chrysene	228	19.371	19.371	(1.003)	154738	10.0000	9.9
31 Benzo(b)fluoranthene	252	21.297	21.296	(0.970)	145830	10.0000	10(A)
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	152992	10.0000	10
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	132196	10.0000	10(A)
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	114361	10.0000	10(A)
35 Dibenzo(a,h)anthracene	278	24.050	24.061	(1.096)	113061	10.0000	10(A)
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	125942	10.0000	10(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TMP 5/25/10

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/25/10 INITIAL TIME OF TUNE 0559 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1759
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAHSIM DOD SIM: (Y)N)
PREVENTIVE MAINTENANCE Font/Liner/Septum

	SEQUENCE#	FILTERED	FILENAME	NOTES	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OE25001		ASCANC66		5/25/10	0527	SSTD3.00	—	2µl	2743	SCD=LLD
2	DV100525C		N/A			0559	FC43	—	N/A		
3			OE25001-CAL3C66			0601	SSTD3.00Y2	—	2µl		OE18007 8/18/10
4			-CAL5C66			0635	10.0Y2	—			10
5			-CAL1C66			0709	0.40Y2	—			05
6			-CAL4C66			0743	5.00Y2	—			09
7			-CAL2C66			0816	1.20Y2	—			06
8			1005131-02JC66			0856	EB051310-SB	1005131			
9			03JC66	IL		0930	BBG-FB051310				
10			03J2C66			1013		VARIOUS			
11			0052402-BLKICC66			1046	SBLKCB	~~1005131~~			TMP 5/25/10
12			BS1C66	SFV SL		1120	SCBLCS	VARIOUS			
13			BSDIC66			1155	SCBLCSD	VARIOUS			
14			1005131-04C66	1H		1228	BBG-FB051810	1005131			
15			1005131-05C66			1302	EB051810-SS	1005131			
16			1005158-01C66	1H		1336	AOC8-MW-35	1005158			
17			02C66	1H		1410	AOC8-MW-35D				JS
18			01JCC66	1H		1445	AOC8-MW-35				
19			02JC66			1518	AOC8-MW-~~35~~35D				
20			03 C66	1H		1552	Chng 8-25-10 ~~ERO51910~~ AOC8-MW-36				
21			04 C66	1H		1626	ERO51910				
22			05C66	1H		1700	AOC8-MW-37				
23			0052402BS1JC66			1734	SCBLCS	Various			
24			1005131-04JC66			1808	BBG-FB051810	1005131			Out of tune OWS 05-25-10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: See Comments
Internal STD Lot#/Exp. Date: 040 OE18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: DMP DATE 5/25/10 Supervisor/Manager Review: DMP pages 3060 to 3080 Date 5/25/10

b. Continuing Calibration Data (Form VII SV)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

(1) Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

(2) EICPs displaying each manual integration.

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: 5972HP66 Calibration Date: 05/24/10 Time: 1152

Lab File ID: 0E24006-CCV1A6 Init. Calib. Date(s): 05/24/10 05/24/10

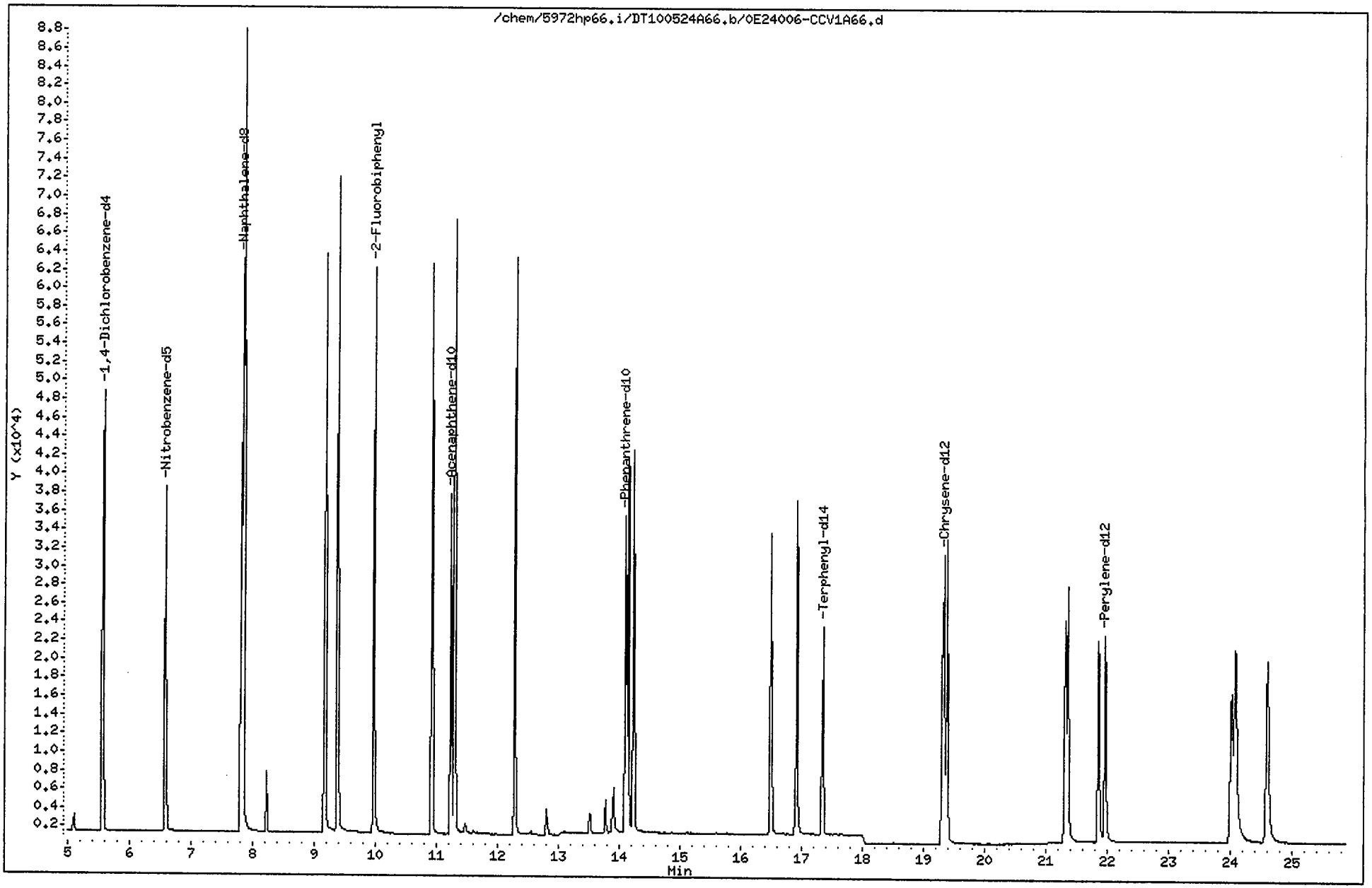
Init. Calib. Times: 0057 0313

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.1860000	1.0630665	0.01	-10.36	50.00	AVRG
2-Methylnaphthalene	1.2940000	1.4042348	0.01	8.52	50.00	AVRG
Acenaphthylene	2.1200000	1.8209341	0.01	-14.11	50.00	AVRG
Acenaphthene	1.2440000	1.1371874	0.01	-8.59	20.00	AVRG
Fluorene	0.6340000	0.6490931	0.01	2.38	50.00	AVRG
Phenanthrene	0.8990000	0.8675339	0.01	-3.50	50.00	AVRG
Anthracene	0.8060000	0.7245594	0.01	-10.10	50.00	AVRG
Fluoranthene	0.8860000	0.7494500	0.01	-15.41	20.00	AVRG
Pyrene	0.9630000	0.8217877	0.01	-14.66	50.00	AVRG
Benzo(a)anthracene	0.7350000	0.5470545	0.01	-25.57	50.00	AVRG
Chrysene	0.8270000	0.7096390	0.01	-14.19	50.00	AVRG
Benzo(b)fluoranthene	0.9470000	0.6906602	0.01	-27.07	50.00	AVRG
Benzo(k)fluoranthene	0.9910000	0.9616948	0.01	-2.96	50.00	AVRG
Benzo(a)pyrene	0.8090000	0.6682166	0.01	-17.40	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.6900000	0.5831320	0.01	-15.49	50.00	AVRG
Dibenzo(a,h)anthracene	0.7400000	0.6685990	0.01	-9.65	50.00	AVRG
Benzo(g,h,i)perylene	0.8000000	0.7641304	0.01	-4.48	50.00	AVRG
Nitrobenzene-d5	0.4160000	0.3681370	0.01	-11.50	50.00	AVRG
2-Fluorobiphenyl	2.2450000	2.1216459	0.01	-5.49	50.00	AVRG
Terphenyl-d14	0.4920000	0.4282409	0.01	-12.96	50.00	AVRG

Data File: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Date : 24-MAY-2010 11:52
Client ID: SSTD3.00IK
Sample Info: SSTD3.00IK:2650
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2650
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Report Date: 24-May-2010 13:33

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Lab Smp Id: 0E24006-CCV1 Client Smp ID: SSTD3.00IK
Inj Date : 24-MAY-2010 11:52
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IK:2650
Misc Info : SSTD3.00IK
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100524A66.b/SIM_8270Cv2DOD.m
Meth Date : 24-May-2010 12:27 perry Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.569	5.569	(1.000)	29379	2.00000	
*	2 Naphthalene-d8	136	7.811	7.811	(1.000)	78737	2.00000	
*	3 Acenaphthene-d10	164	11.232	11.232	(1.000)	25566	2.00000	
*	4 Phenanthrene-d10	188	14.100	14.100	(1.000)	46661	2.00000	
*	5 Chrysene-d12	240	19.336	19.336	(1.000)	40910	2.00000	
*	6 Perylene-d12	264	21.960	21.960	(1.000)	33120	2.00000	
$	9 Nitrobenzene-d5	82	6.573	6.573	(0.841)	43479	3.00000	2.7
$	10 2-Fluorobiphenyl	172	9.975	9.975	(0.888)	81363	3.00000	2.8
$	12 Terphenyl-d14	244	17.346	17.346	(0.897)	26279	3.00000	2.6
	13 Naphthalene	128	7.851	7.851	(1.005)	125554	3.00000	2.7
	15 2-Methylnaphthalene	141	9.167	9.167	(0.816)	53851	3.00000	3.3
	17 Acenaphthylene	152	10.919	10.919	(0.972)	69831	3.00000	2.6
	18 Acenaphthene	154	11.297	11.297	(1.006)	43610	3.00000	2.7
	21 Fluorene	166	12.287	12.287	(0.871)	45431	3.00000	3.1
	25 Phenanthrene	178	14.139	14.139	(1.003)	60720	3.00000	2.9

TMP 5/24/10

Data File: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Report Date: 24-May-2010 13:33

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.230	14.230	(1.009)	50713	3.00000	2.7
27 Fluoranthene	202	16.499	16.499	(0.853)	45990	3.00000	2.5
28 Pyrene	202	16.916	16.916	(0.875)	50429	3.00000	2.6
29 Benzo(a)anthracene	228	19.301	19.301	(0.998)	33570	3.00000	2.2
30 Chrysene	228	19.380	19.380	(1.002)	43547	3.00000	2.6
31 Benzo(b)fluoranthene	252	21.318	21.318	(0.971)	34312	3.00000	2.2
32 Benzo(k)fluoranthene	252	21.351	21.351	(0.972)	47777	3.00000	2.9
33 Benzo(a)pyrene	252	21.852	21.852	(0.995)	33197	3.00000	2.5
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.018	(1.094)	28970	3.00000	2.5(M)
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.097)	33216	3.00000	2.7
36 Benzo(g,h,i)perylene	276	24.605	24.605	(1.120)	37962	3.00000	2.9

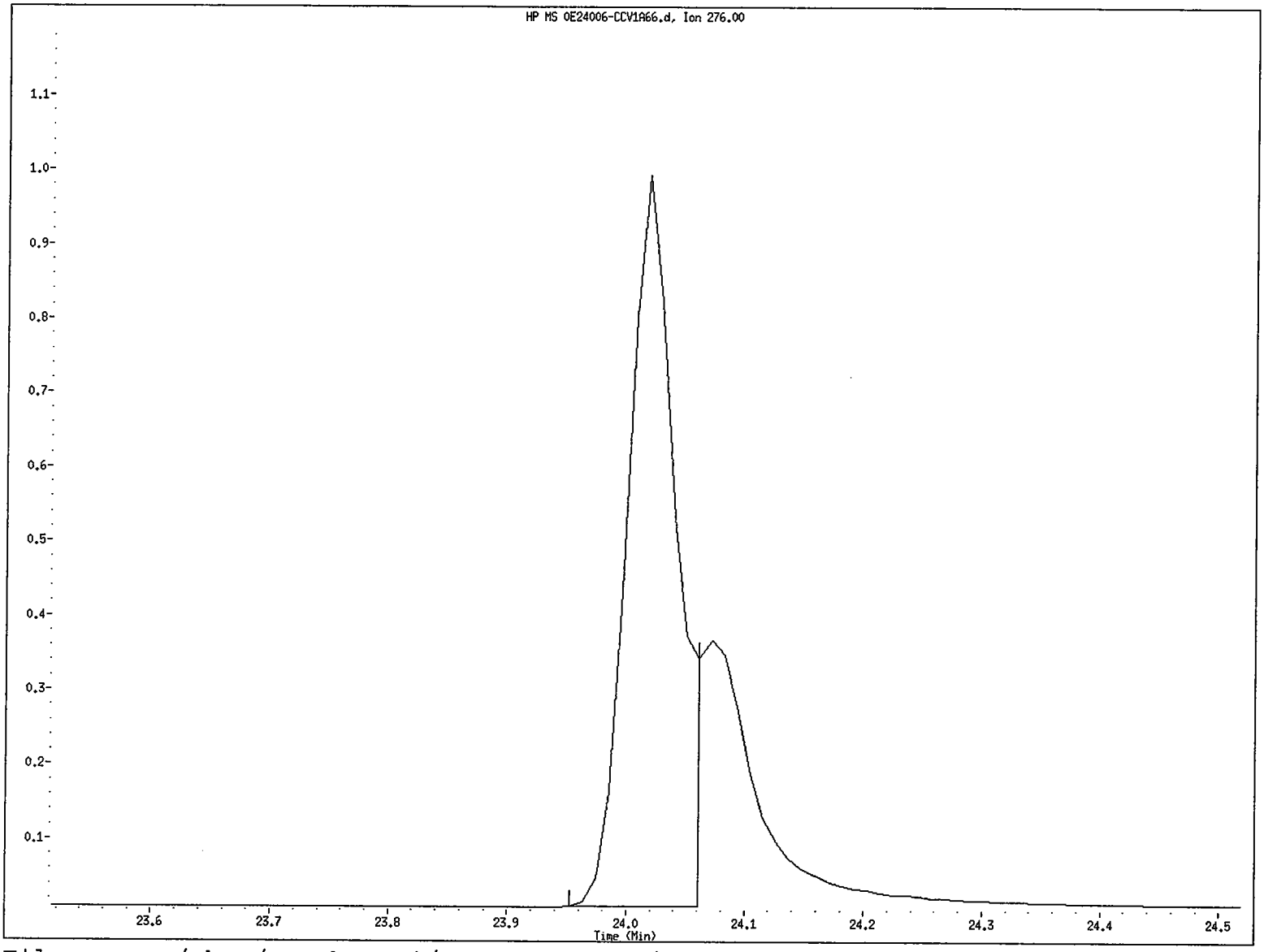
2
TMP 5/24/10

QC Flag Legend

M - Compound response manually integrated.

RW 6/1/10

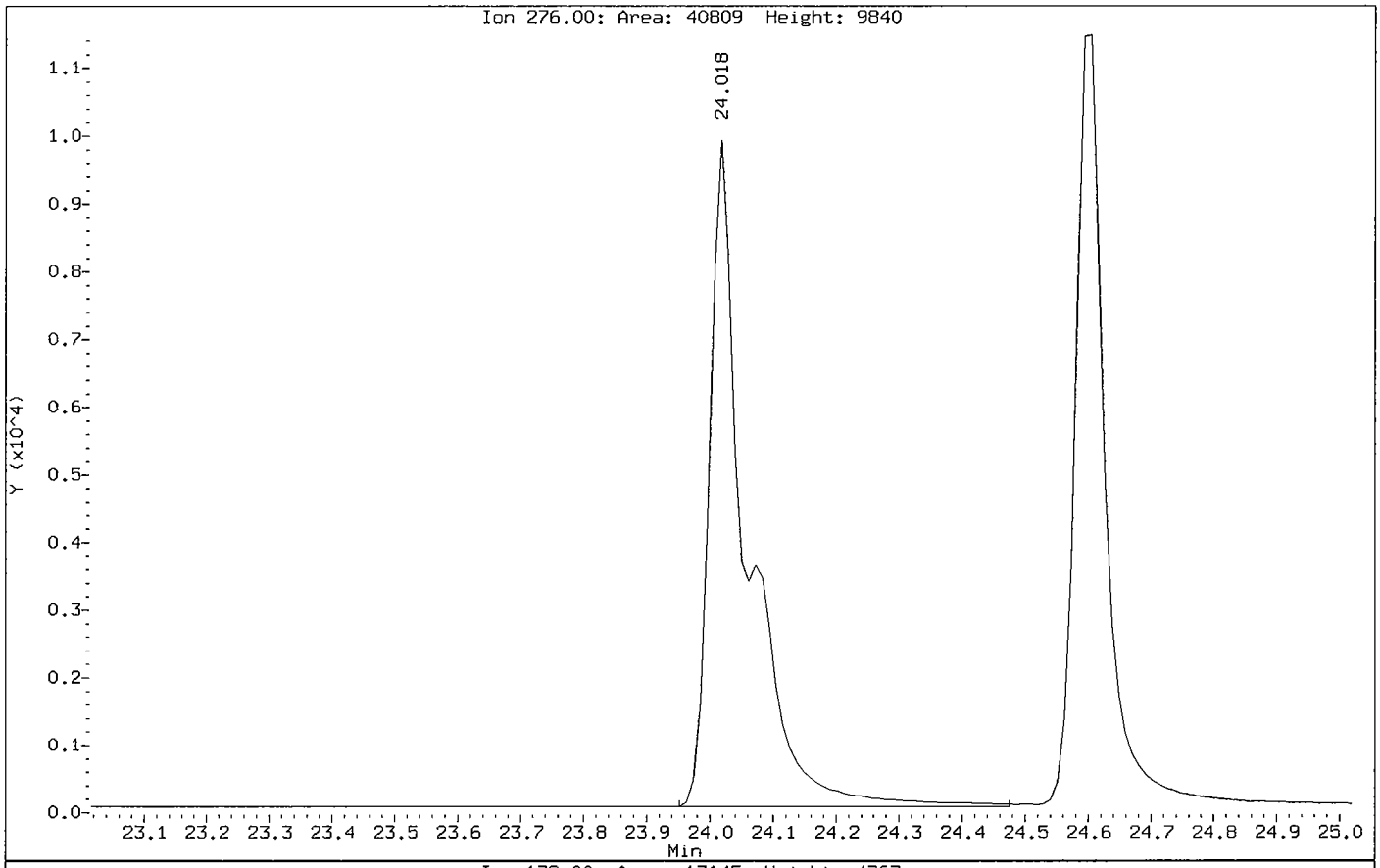
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 28970 Manually integrated

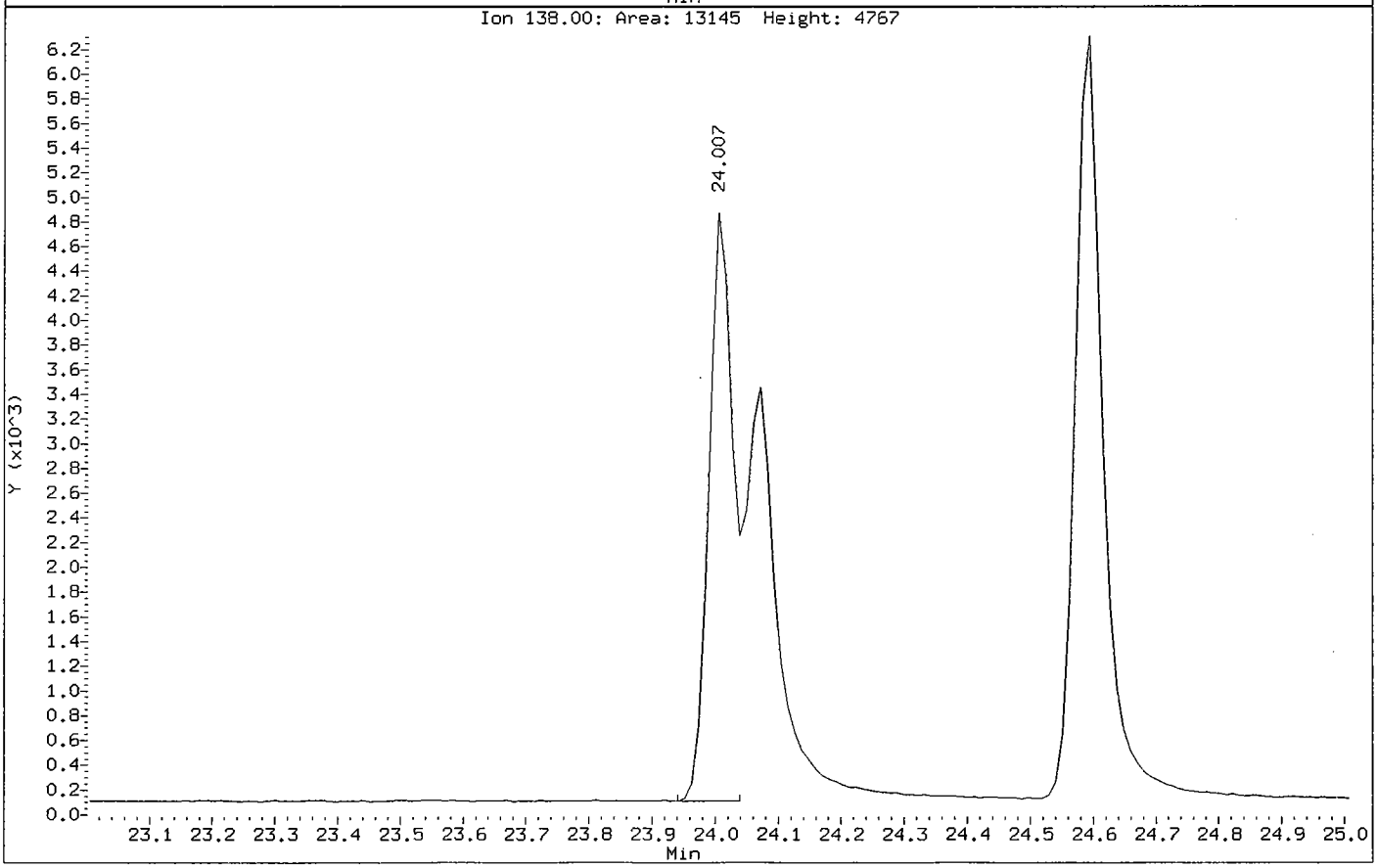


File name: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Client ID: SSTD3.00IK
Instrument ID: 5972hp66.i
Injection Date and Time: 24-MAY-2010 11:52
Retention Time: 24.02
Operator ID: 2650

Data File: /chem/5972hp66.i/DT100524A66.b/0E24006-CCV1A66.d
Injection Date: 24-MAY-2010 11:52
Instrument: 5972hp66.i
Client Sample ID: SSTD3.00IK

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/24/10 INITIAL TIME OF TUNE 1143 SHIFT/S (A) ✓ (B) ____ (C) ____
TIME TUNE EXPIRES 2343
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAHSIM DOD SIM: (Y/N)
PREVENTIVE MAINTENANCE NONE

	SEQUENCE#	REJECTED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OE24006		N/A	/	5/24/10	1143	FC43	—	N/A	2650	SD=LCD
2	DT100524A		OE24006-CCV1A66	/		1152	5STD3.00IK	—	2µL		
3			0051905-BLK1A66	/	/ /	1226	SBLKBN	1005131			
4		/	0051905-BS1A66	1H	/ /	1316	SBNLCS				
5		/	0051905-BSD1A66	SH	/ /	1350	SBNLCSD				SVMW DR
6		/	1005131-01A66	1H	/ /	1532	EB051210-SS				
7			0051905-BS1JA66	/	/ /	16006	SBNLCS				
8		/	1005131-02A66	1H	/ /	1640	EB051310-SB				
9		/	-03A66	1H	/ /	1714	BBG-FB051310				
10			-01JA66	/	/ /	1748	EB051210-SS	↓			
11		/	0051720-BLK1A66	1H SH	/ /	1821	SBLKBE	1005129			
12		/	-BS1A66	1H	/ /	1855	SBELCS				
13		/	-MS1A66	1H	/ /	1929	SS53-0-1MS				
14		/	-MSD1A66	1H	/ /	2003	SS53-0-1MSD				
15		/	1005129-05A66	H SH	/ /	2037	SS53-0-1				
16		/	-01A66	1H	/ /	2111	SS55-00-01				
17		/	-02A66	1H	/ /	2145	SB55-00-2.5-3				
18		/	-03A66	H SL	/ /	2219	SS54-0-1				
19		/	-04A66	1H	/ /	2253	SB54-4-5				
20		/	-06A66	1H SL	/ /	2326	SB53-7-8	↓	↓	↓	
21					/ /						
22					/ /		MW 5/25/10				
23					/ /						
24					/ /						

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FWISM 0E18007 8/18/10
Internal STD Lot#/Exp. Date: 040 0E18001 11/18/10
Methylene Chloride Lot#/Exp. Date: J10S04 4/21/15
Column Type: RTX-5MS 0.32m

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TM DATE 5/25/10

6/01/09:jr

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Instrument ID: 5972HP66 Calibration Date: 05/26/10 Time: 0611

Lab File ID: 0E26002-CCV1C6 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 0601 0816

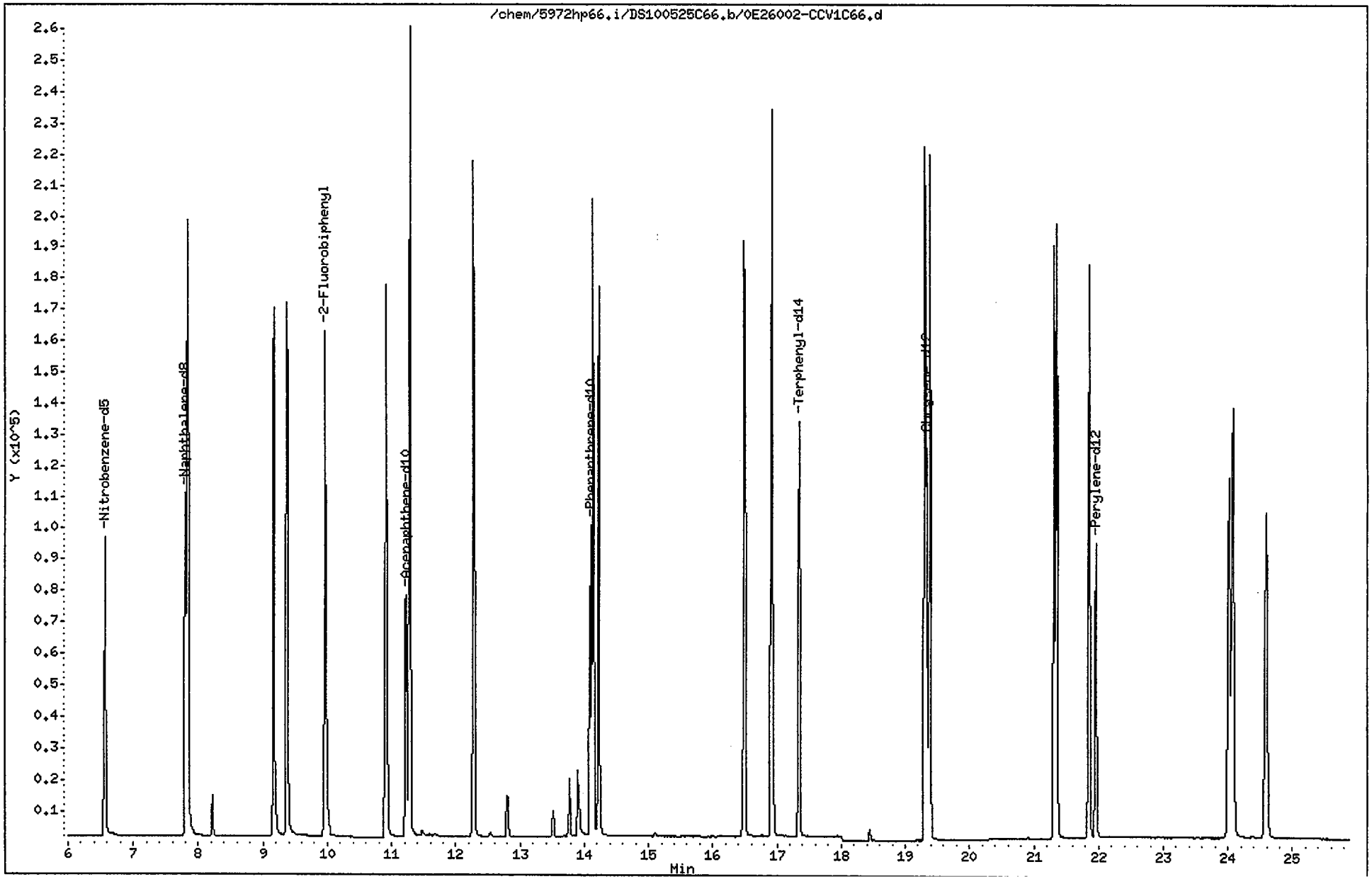
GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.2286063	0.01	-0.68	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.4005638	0.01	-2.20	50.00	AVRG
Acenaphthylene	2.2340000	2.4216285	0.01	8.40	50.00	AVRG
Acenaphthene	1.3090000	1.3608634	0.01	3.96	20.00	AVRG
Fluorene	0.9360000	0.8282759	0.01	-11.51	50.00	AVRG
Phenanthrene	1.2470000	1.2440924	0.01	-0.23	50.00	AVRG
Anthracene	1.1220000	1.1797192	0.01	5.14	50.00	AVRG
Fluoranthene	1.3260000	1.1893801	0.01	-10.30	20.00	AVRG
Pyrene	1.4440000	1.2901560	0.01	-10.65	50.00	AVRG
Benzo(a)anthracene	1.0870000	1.1739355	0.01	8.00	50.00	AVRG
Chrysene	1.1770000	1.1774520	0.01	0.04	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.3306844	0.01	0.88	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.4426426	0.01	1.67	50.00	AVRG
Benzo(a)pyrene	1.1890000	1.2297853	0.01	3.43	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.9538910	0.01	-9.07	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.9103267	0.01	-12.22	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	0.9309432	0.01	-19.88	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4903300	0.01	10.19	50.00	AVRG
2-Fluorobiphenyl	2.0870000	2.2582440	0.01	8.20	50.00	AVRG
Terphenyl-d14	0.7270000	0.6907753	0.01	-4.98	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100525C66.b/0E26002-CCV1C66.d
Date : 26-MAY-2010 06:11
Client ID: SSTD3.00IM
Sample Info: SSTD3.00IM:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/0E26002-CCV1C66.d
Report Date: 26-May-2010 06:50

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/0E26002-CCV1C66.d
Lab Smp Id: 0E26002-CCV1 Client Smp ID: SSTD3.00IM
Inj Date : 26-MAY-2010 06:11
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IM:2743
Misc Info : SSTD3.00IM
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 26-May-2010 06:49 mweichel Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.560	5.560	(1.000)	41032	2.00000	
* 2 Naphthalene-d8	136	7.802	7.802	(1.000)	146916	2.00000	
* 3 Acenaphthene-d10	164	11.231	11.231	(1.000)	68609	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	134040	2.00000	
* 5 Chrysene-d12	240	19.336	19.336	(1.000)	157952	2.00000	
* 6 Perylene-d12	264	21.961	21.961	(1.000)	126573	2.00000	
$ 9 Nitrobenzene-d5	82	6.563	6.563	(0.841)	108056	3.00000	3.3
$ 10 2-Fluorobiphenyl	172	9.966	9.966	(0.887)	232405	3.00000	3.2
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	163664	3.00000	2.9
13 Naphthalene	128	7.841	7.841	(1.005)	270754	3.00000	3.0
15 2-Methylnaphthalene	141	9.170	9.170	(0.817)	144138	3.00000	2.9
17 Acenaphthylene	152	10.918	10.918	(0.972)	249220	3.00000	3.3
18 Acenaphthene	154	11.283	11.283	(1.005)	140052	3.00000	3.1
21 Fluorene	166	12.273	12.273	(0.870)	166534	3.00000	2.7
25 Phenanthrene	178	14.140	14.140	(1.003)	250138	3.00000	3.0

MW 5/26/10

Data File: /chem/5972hp66.i/DS100525C66.b/0E26002-CCV1C66.d
Report Date: 26-May-2010 06:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	237195	3.00000	3.2
27 Fluoranthene	202	16.500	16.500	(0.853)	281799	3.00000	2.7
28 Pyrene	202	16.917	16.917	(0.875)	305675	3.00000	2.7
29 Benzo(a)anthracene	228	19.301	19.301	(0.998)	278139	3.00000	3.2
30 Chrysene	228	19.379	19.379	(1.002)	278972	3.00000	3.0
31 Benzo(b)fluoranthene	252	21.308	21.308	(0.970)	252643	3.00000	3.0
32 Benzo(k)fluoranthene	252	21.352	21.352	(0.972)	273899	3.00000	3.0
33 Benzo(a)pyrene	252	21.853	21.853	(0.995)	233486	3.00000	3.1
34 Indeno(1,2,3-cd)pyrene	276	24.008	24.008	(1.093)	181105	3.00000	2.7
35 Dibenzo(a,h)anthracene	278	24.073	24.073	(1.096)	172834	3.00000	2.6
36 Benzo(g,h,i)perylene	276	24.595	24.595	(1.120)	176748	3.00000	2.4

MV 5/26/10

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/26/10 INITIAL TIME OF TUNE 0609 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1809
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y/N)
PREVENTIVE MAINTENANCE none

	SEQUENCE#	MS/MSD	FILENAME	MS/MSD	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	0E26002		N/A	/	5/26/10	0609	FC43	—	N/A	2743	SCD=LCD
2	S100525C		0E26002-CCV1066	/		0611	-SSTD3.00IM	—	2µL		
3			0051920-BLK1JC66	/		0647	SBLKBP	VARIOUS			
4			BS1JC66	/		0721	SBPLCS	VARIOUS			surr OK
5		/	MS2JC66	SF		0755	SS73-0-1MS	1005133			surr OK
6		/	MSD2JC66	SF		0829	SS73-0-1MSD				
7			1005133-01JC66	/		0903	SS73-0-1				
8			1005131-04J2C66	/		0937	BBE-FB051810	1005131			
9			1005134-03JC66	/		1011	SB02-5-6	1005134			
10			1005134-04JC66	/		1045	SB02D-5-6				
11			1005134-05JC66	/		1119	SB05-7-8				
12		/	1005132-01C66	1H		1153	SB85-1.5-2.5	1005132			prepped wrong
13		/	0051920-MS1C66	SF/1H		1227	SB85-1.5-2.5MS				
14		/	-MSD1C66	1H		1301	SB85-1.5-2.5MSD				
15			-MS1JC66	/		1335	SB85-1.5-2.5MS				
16			1005132-02C66	/		1409	SB78-3.5-4.5				
17			03C66	1H		1443	SS77-0-1				
18			04C66	1H		1517	SB77-3.5-4.5				
19			05C66	/		1551	SS79-0-1				
20		/	06C66	1H		1625	SB79-11-12				
21		/	07C66	1H		1659	SS83-0-1				
22							0V8052610				
23											
24											

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FULL SIM 0E18007 8/18/10
Internal STD Lot#/Exp. Date: 040 0E18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10804 4/21/15
Column Type: RTX-5ms 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: DMF DATE 5/28/10

3087

4. Raw QC Data

   a. FC43 data

   b. Blank Data

   c. Laboratory Control Sample Data

   d. Matrix Spike Data

   e. Matrix Spike Duplicate Data

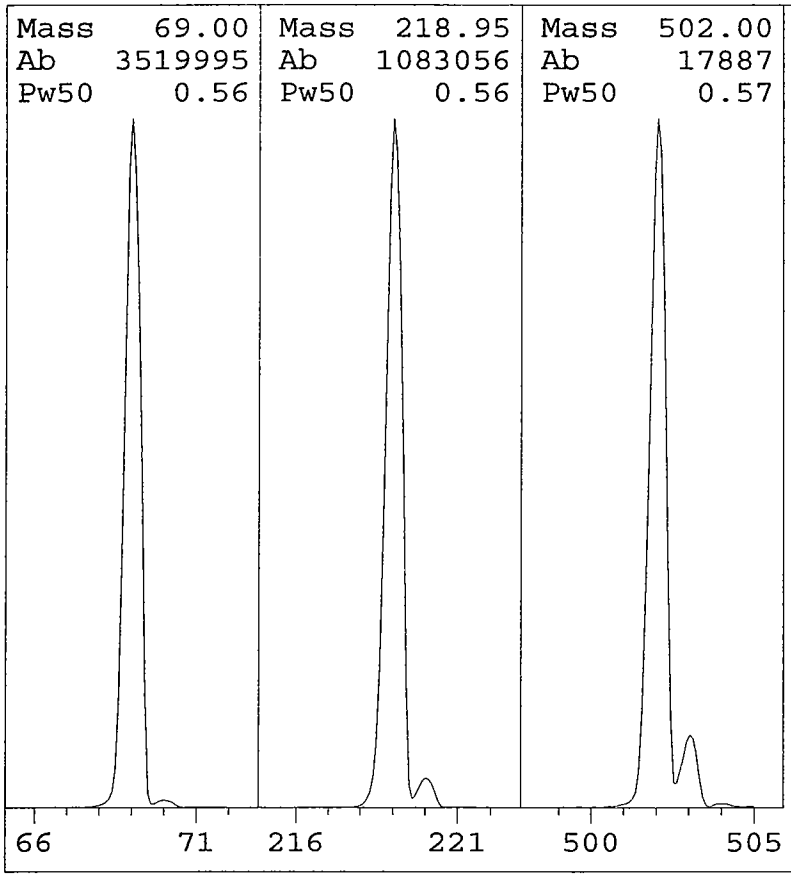
a. FC43 (Calibration Gas)

PFTBA (Perfluoro-tri-n-butylamine) scan,
showing the relative abundance of the
key ions (69, 219, and 502)
and the Instrument Operating Conditions

HP5972

Instrument: GC/MS Instrument #1
Mon May 24 00:55:28 2010 C:\HPCHEM\1\5972\SIM.U

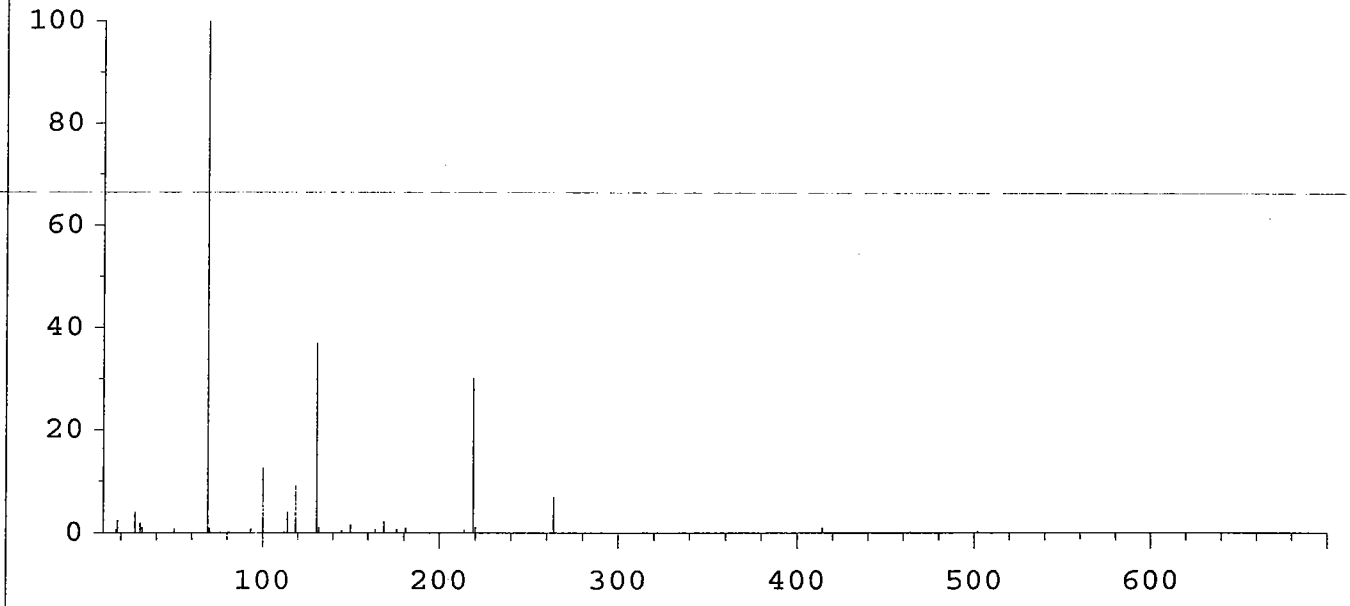
606



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	183	TTI	OFF
Vacuum	54	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
201 peaks Base: 69.00 Abundance: 3097600

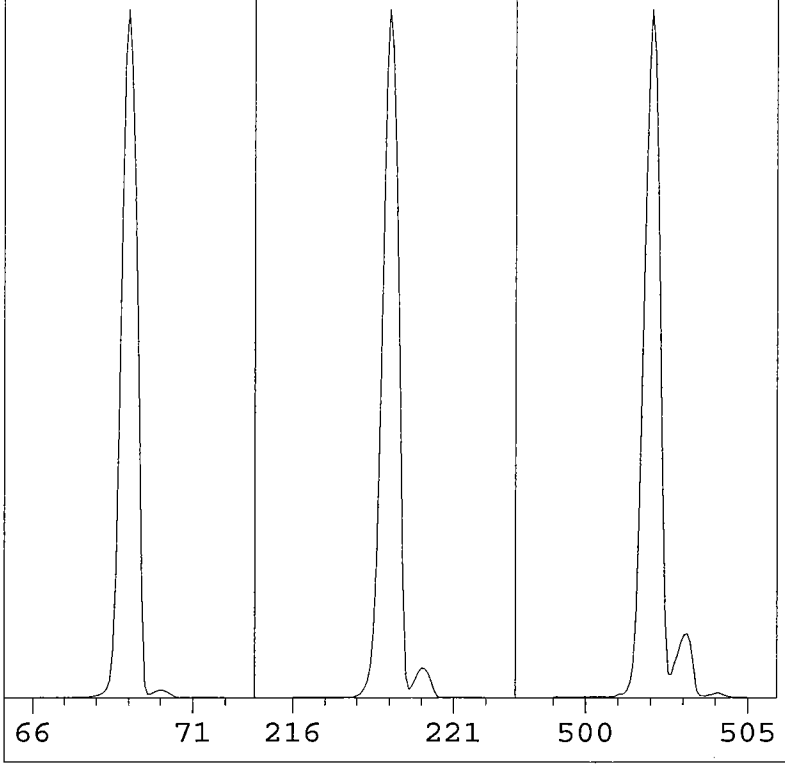


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	3097600	100.00	69.95	32608	1.05
218.95	934656	30.17	219.95	39680	4.25
502.00	16456	0.53	503.00	1614	9.81

HP5972

Instrument: GC/MS Instrument #1
Mon May 24 11:43:50 2010 C:\HPCHEM\1\5972\SIM.U

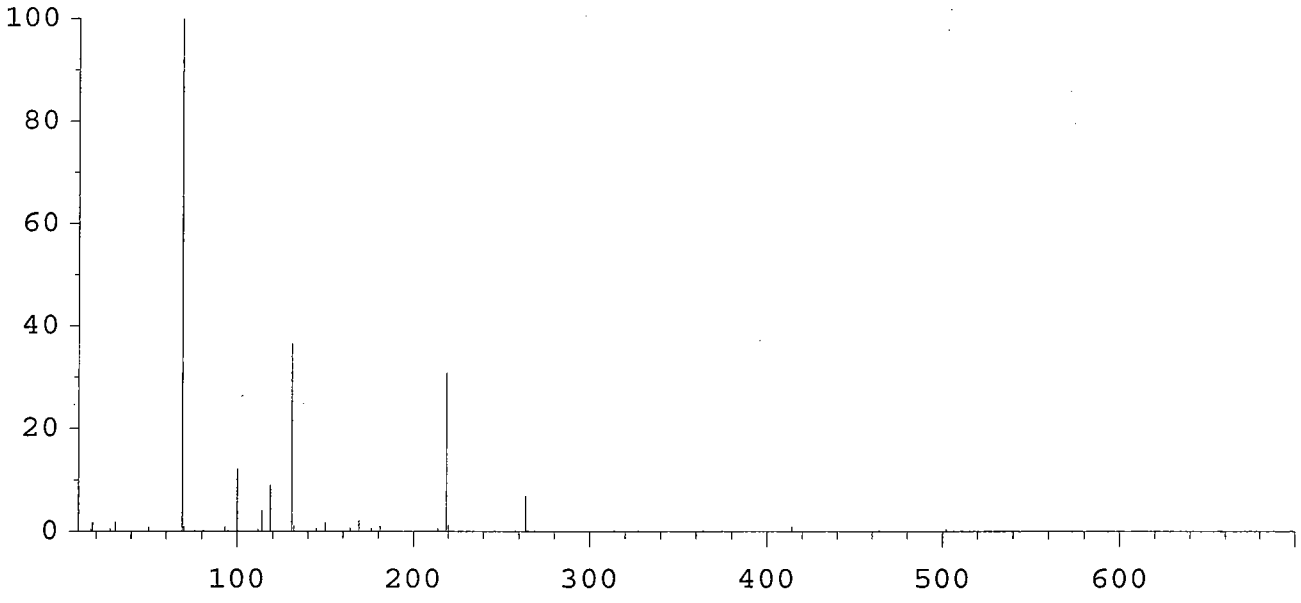
Mass	69.00	Mass	218.95	Mass	502.00
Ab	3140184	Ab	985381	Ab	17198
Pw50	0.56	Pw50	0.56	Pw50	0.57



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	181	TTI	OFF
Vacuum	53	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
192 peaks Base: 69.00 Abundance: 2738688

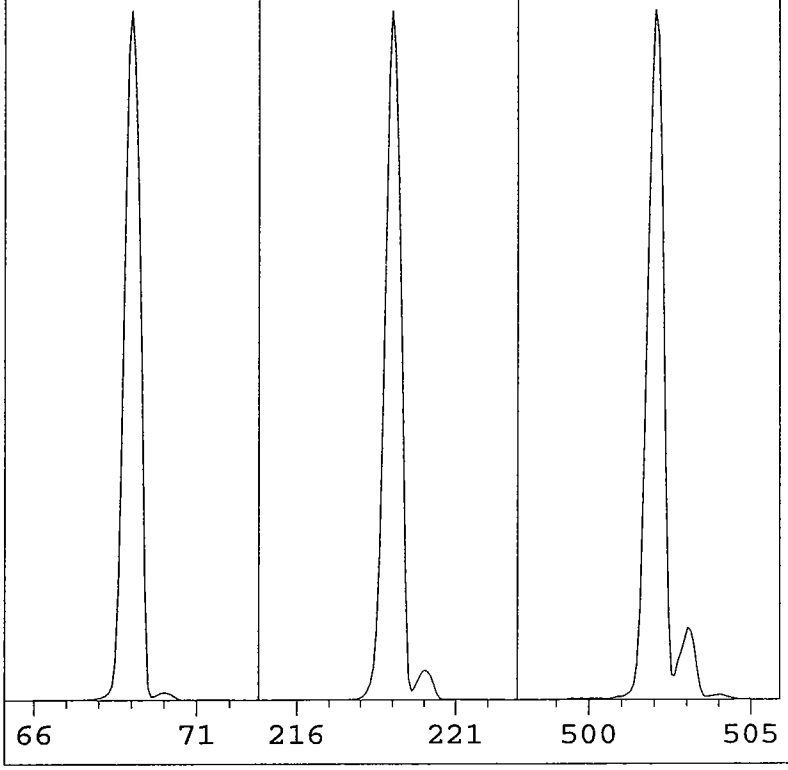


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2738688	100.00	69.95	28936	1.06
218.95	848000	30.96	219.95	36528	4.31
502.00	15097	0.55	503.00	1519	10.06

HP5972

Instrument: GC/MS Instrument #1
Tue May 25 05:59:20 2010 C:\HPCHEM\1\5972\SIM.U

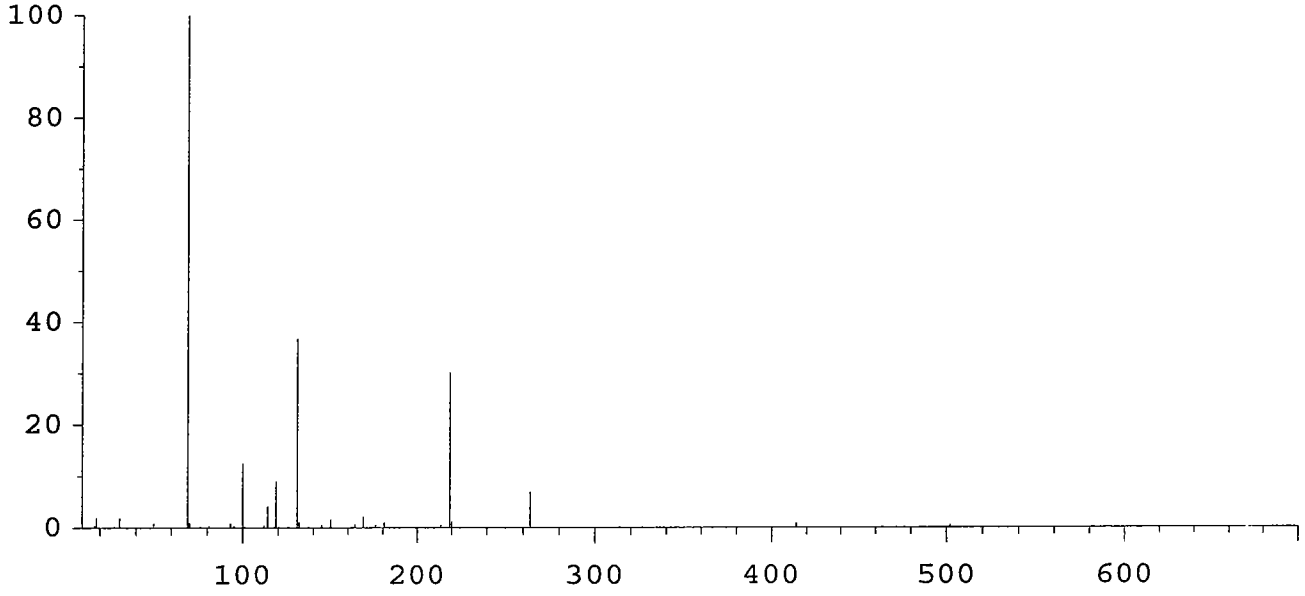
Mass	69.00	Mass	218.95	Mass	502.00
Ab	3135709	Ab	844056	Ab	15005
Pw50	0.56	Pw50	0.56	Pw50	0.58



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	181	TTI	OFF
Vacuum	53	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
189 peaks Base: 69.00 Abundance: 2428928

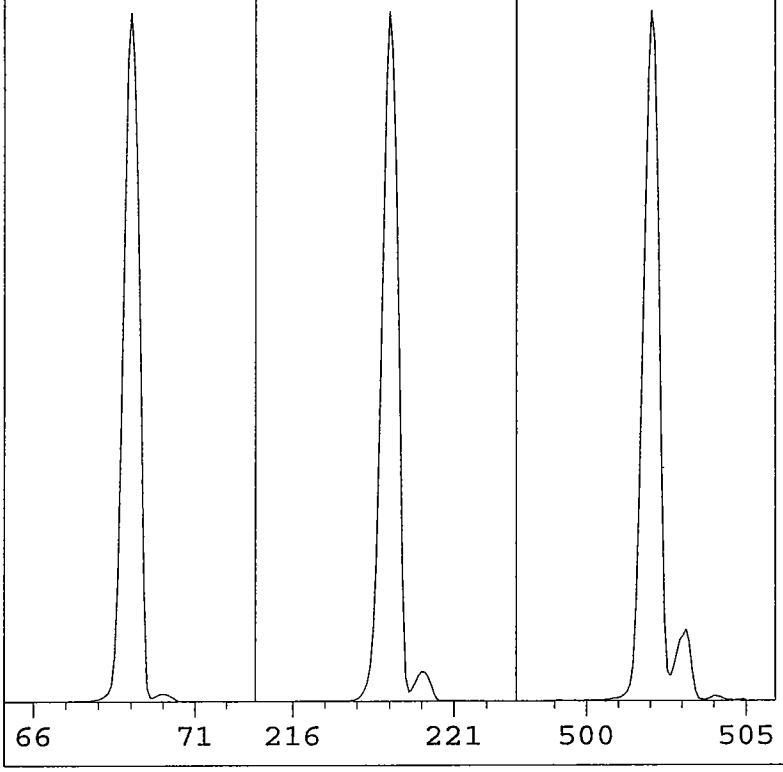


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2428928	100.00	69.95	25704	1.06
218.95	736000	30.30	220.00	32008	4.35
502.00	13063	0.54	503.00	1355	10.37

HP5972

Instrument: GC/MS Instrument #1
Wed May 26 06:09:59 2010 C:\HPCHEM\1\5972\SIM.U

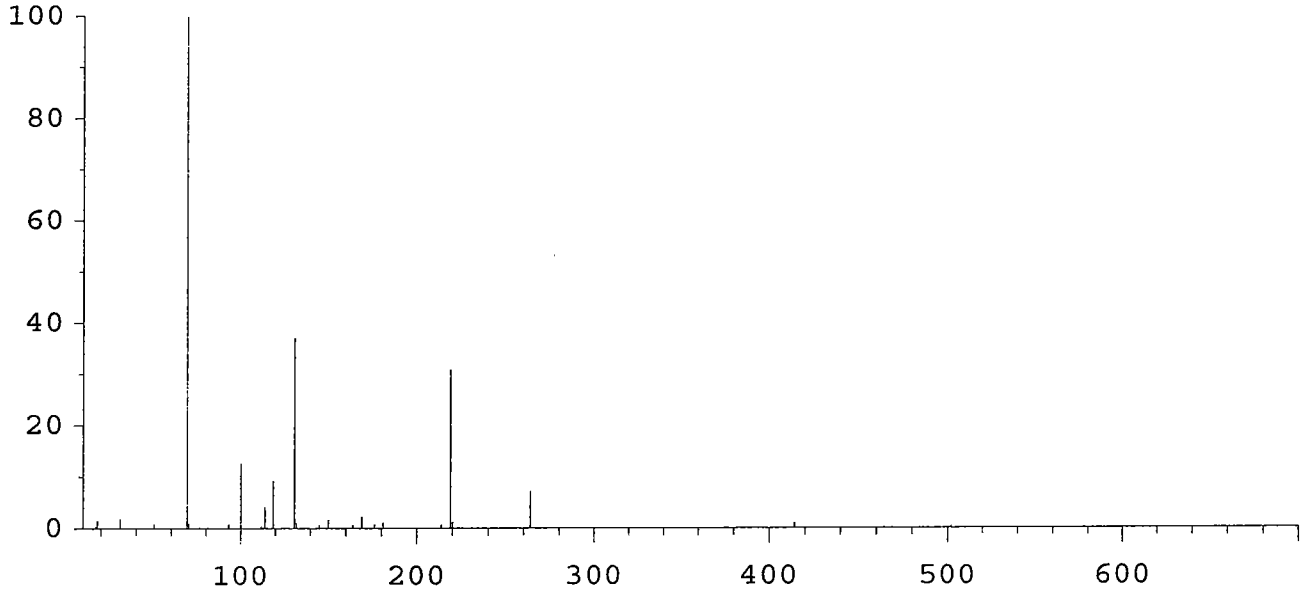
Mass	69.00	Mass	218.95	Mass	502.00
Ab	3259490	Ab	1019161	Ab	18129
Pw50	0.57	Pw50	0.57	Pw50	0.57



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	180	TTI	OFF
Vacuum	54	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
200 peaks Base: 69.00 Abundance: 2897408



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2897408	100.00	69.95	30664	1.06
218.95	895744	30.92	219.95	37528	4.19
502.00	16768	0.58	503.00	1600	9.54

b. Blank Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report.

- Target compound spectra with lab-generated standard spectra.

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SBLKBN

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051905-BLK1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051905-BLK1A66
Analyst: 2650

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051905-BLK1

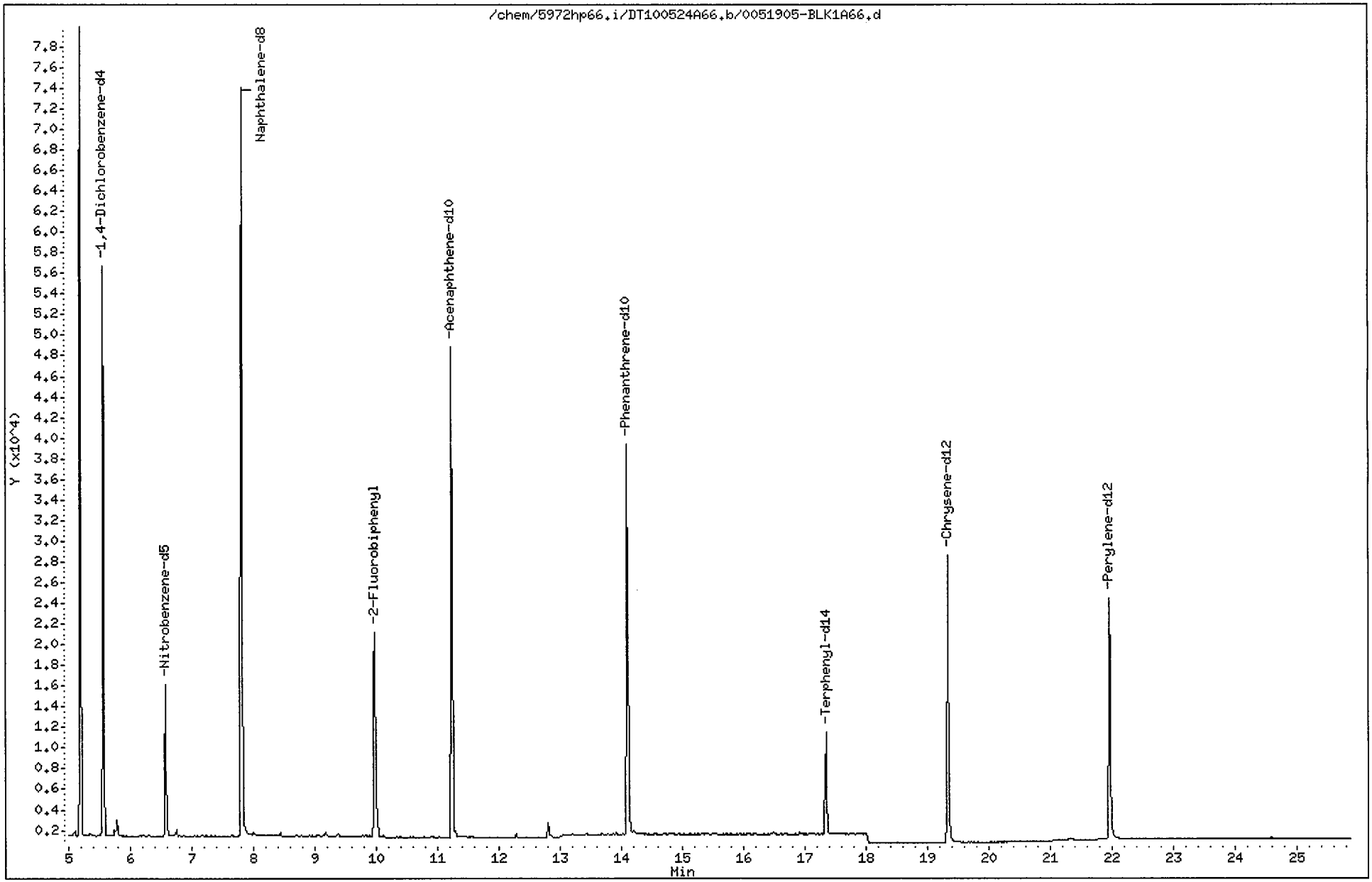
Date Extracted: 05/19/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	ND	U
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BLK1A66.d
Date : 24-MAY-2010 12:26
Client ID: SBLKBN
Instrument: 5972hp66.i
Sample Info: 0051905-BLK1:2650
Volume Injected (uL): 2.0
Operator: 2650
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BLK1A66.d
Report Date: 01-Jun-2010 14:51

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100524A66.b/0051905-BLK1A66.d
Lab Smp Id: 0051905-BLK1 Client Smp ID: SBLKBN
Inj Date : 24-MAY-2010 12:26
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 0051905-BLK1:2650
Misc Info : SBLKBN
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100524A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 14:38 byrd Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.559	5.569	(1.000)	31733	2.00000	
* 2 Naphthalene-d8	136	7.814	7.811	(1.000)	98870	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.232	(1.000)	34048	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.100	(1.000)	51515	2.00000	
* 5 Chrysene-d12	240	19.335	19.336	(1.000)	37475	2.00000	
* 6 Perylene-d12	264	21.961	21.960	(1.000)	35401	2.00000	
$ 9 Nitrobenzene-d5	82	6.576	6.573	(0.842)	15565	0.75607	0.38
$ 10 2-Fluorobiphenyl	172	9.978	9.975	(0.888)	32745	0.85674	0.43
$ 12 Terphenyl-d14	244	17.347	17.346	(0.897)	12062	1.30861	0.65
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					

06/11/10

Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BLK1A66.d
Report Date: 01-Jun-2010 14:51

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

ASSIGNED TO: T. WILLIAMS

CompuChem
EXTRACTION WORKSHEET
SEMI-VOLATILE WATER
Method 3510C for 8270C SIM

DATE/TIME EXTRACTED/POSTED: 5-19-10 @ 1245

EMP ID NUMBER: 1289

5-19-1

BATCH NO.: 051905

175

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE VOLUME (ml)	FINAL VOLUME (ml)	Adjusted pH A/N	Adjusted pH BASE	COMMENTS
1	0051905-BLK1	SBLKBN	MB	1000	1.0	1.0	14.0	
2	0051905-BS1	SBNLCS	LCS	1000	1.0	1.0	14.0	
3	0051905-BSD1	SBNLCSD	LCSD	1000	1.0	1.0	14.0	
4	1005131-01	EB051210-SS	SAMPLE	1000	1.0	1.0	14.0	
5	1005131-02	EB051310-SB	SAMPLE	1000	1.0	1.0	14.0	
6	1005131-03	BBG-FB051310	SAMPLE	950	1.0	1.0	14.0	
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

B. Patton 5-19-10

B. Patton 5-19-10

		8270
SURROGATE	NO.	DIL 393
	AMT.	0.5 mL
	LOT	62924
SPIKE	NO.	FULL LIST SIM I&II
	AMT.	0.5 mL
	LOT	082109-03

MS-19-10

FINAL VOLUME VERIFIED: B. Patton

REVIEWED BY:

SURROGATE & SPIKE ADDED BY: TMW, 5-19-10
Initials Date

Analyst initials. Extracted TMW KD TMW N2 TMW Bottle up BFP, AJL

Witness AJL, 5-19-10
Initials Date

Manufacturer and lot number of reagents/solvents used CH_2Cl_2-J17500, Na_2SO_4-ZXXB-697-3, conc. H_2SO_4-70380, 10N NaOH-ZXXB-691-2

12/29/09: RM

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SBLKCB

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0052402-BLK1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0052402-BLK1C66
Analyst: 2743

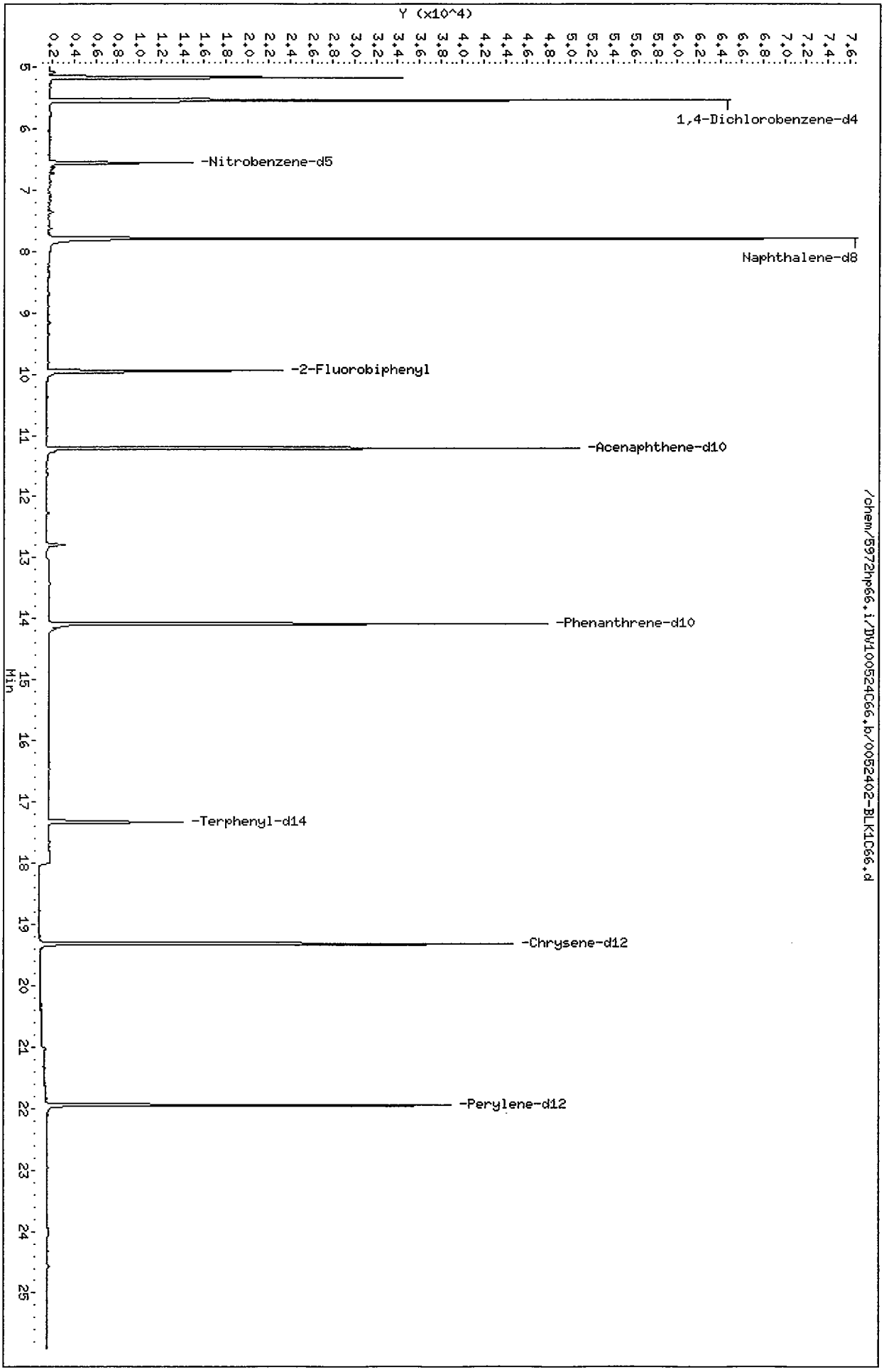
% Moisture: _____ decanted: (Y/N)___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052402-BLK1

Date Extracted: 05/24/10
Date Analyzed: 05/25/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	ND	U
91-57-6	2-Methylnaphthalene	0.015	0.20	ND	U
208-96-8	Acenaphthylene	0.0100	0.20	ND	U
83-32-9	Acenaphthene	0.035	0.20	ND	U
86-73-7	Fluorene	0.045	0.20	ND	U
85-01-8	Phenanthrene	0.035	0.20	ND	U
120-12-7	Anthracene	0.020	0.20	ND	U
206-44-0	Fluoranthene	0.0100	0.20	ND	U
129-00-0	Pyrene	0.0100	0.20	ND	U
56-55-3	Benzo(a)anthracene	0.020	0.20	ND	U
218-01-9	Chrysene	0.015	0.20	ND	U
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	ND	U
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	ND	U
50-32-8	Benzo(a)pyrene	0.0100	0.20	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	ND	U
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	ND	U
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	ND	U

ND = Not Detected
Q = Qualifier

FORM I SV-1


Data File: /chem/5972hp66.i/DW100524C66.b/0052402-BLK1C66.d
Date : 25-MAY-2010 10:46
Client ID: SBLKCB
Sample Info: 0052402-BLK1;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^4)
1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min
/chem/5972hp66.i/DW100524C66.b/0052402-BLK1C66.d

Data File: /chem/5972hp66.i/DV100524C66.b/0052402-BLK1C66.d
Report Date: 01-Jun-2010 15:46

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0052402-BLK1C66.d
Lab Smp Id: 0052402-BLK1 Client Smp ID: SBLKCB
Inj Date : 25-MAY-2010 10:46
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0052402-BLK1:2743
Misc Info : SBLKCB
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 15:28 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
* 1 1,4-Dichlorobenzene-d4	152	5.545	5.547	(1.000)	34149	2.00000	
* 2 Naphthalene-d8	136	7.787	7.802	(1.000)	110315	2.00000	
* 3 Acenaphthene-d10	164	11.218	11.218	(1.000)	44002	2.00000	
* 4 Phenanthrene-d10	188	14.088	14.087	(1.000)	69551	2.00000	
* 5 Chrysene-d12	240	19.318	19.319	(1.000)	58164	2.00000	
* 6 Perylene-d12	264	21.940	21.949	(1.000)	54659	2.00000	
$ 9 Nitrobenzene-d5	82	6.562	6.563	(0.843)	15451	0.62944	0.31
$ 10 2-Fluorobiphenyl	172	9.951	9.952	(0.887)	31540	0.68689	0.34
$ 12 Terphenyl-d14	244	17.335	17.333	(0.897)	17933	0.84856	0.42
13 Naphthalene	128	Compound Not Detected.					
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					

Data File: /chem/5972hp66.i/DV100524C66.b/0052402-BLK1C66.d
Report Date: 01-Jun-2010 15:46

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

ASSIGNED TO: A. Lake

EMP ID NUMBER: 2728

CompuChem
EXTRACTION WORKSHEET
SEMI-VOLATILE WATER
Method 3510C for 8270C

SIM

DATE/TIME EXTRACTED/POSTED: 5-24-10 0930

BATCH NO.: 0052402

5-24-1

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE VOLUME (mL)	FINAL VOLUME (mL)	Adjusted pH ACID	Adjusted pH BASE	COMMENTS
1	0052402-BLK1	SBLKCB	MB	1000	1.0	1.3	12.0	
2	0052402-BS1	SCBLCS	LCS	1000	1.0	1.3	12.0	
3	0052402-BSD1	SCBLCSD	LCSD	1000	1.0	1.3	12.0	
4	1005131-04	BBG-FB051810	SAMPLE	925	1.0	1.3	12.0	
5	1005131-05	EB051810-SS	SAMPLE	900	1.0	1.3	12.0	
6	1005158-01	AOC8-MW-35	SAMPLE	1000	1.0	1.3	12.0	
7	1005158-02	AOC8-MW-35D	SAMPLE	1000	1.0	1.3	12.0	
8	1005158-03	AOC8-MW-36	SAMPLE	1000	1.0	1.3	12.0	
9	1005158-04	ER051910	SAMPLE	975	1.0	1.3	12.0	
10	1005158-05	AOC8-MW-37	SAMPLE	1000	1.0	1.3	12.0	
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

VB 5/24/10

5-24-10 VB

		8270
SURROGATE	NO.	DIL 393
	AMT.	0.5 mL
	LOT	OE20026
SPIKE	NO.	FULL LIST SIM I&H
	AMT.	0.5 mL
	LOT	082109-03

MMS-24-10

FINAL VOLUME VERIFIED: VB

REVIEWED BY: MLatt

SURROGATE & SPIKE ADDED BY: ML / 5-24-10
Initials Date

Analyst initials. Extracted AL, ML, VB KD BFP N2 BFP/ML Bottle up VB

Witness AM / 5-24-10
Initials Date

Manufacturer and lot number of reagents/solvents used CH_2Cl_2 - 510504, Na_2SO_4 - 2XX8-649-2, Conc. H_2SO_4 - 71645, 10 N NaOH - 2XX8-641-2

12/29/09: RM

180

c. Laboratory Control Sample Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SBNLCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051905-BS1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051905-BS1JA66
Analyst: 2650

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051905-BLK1

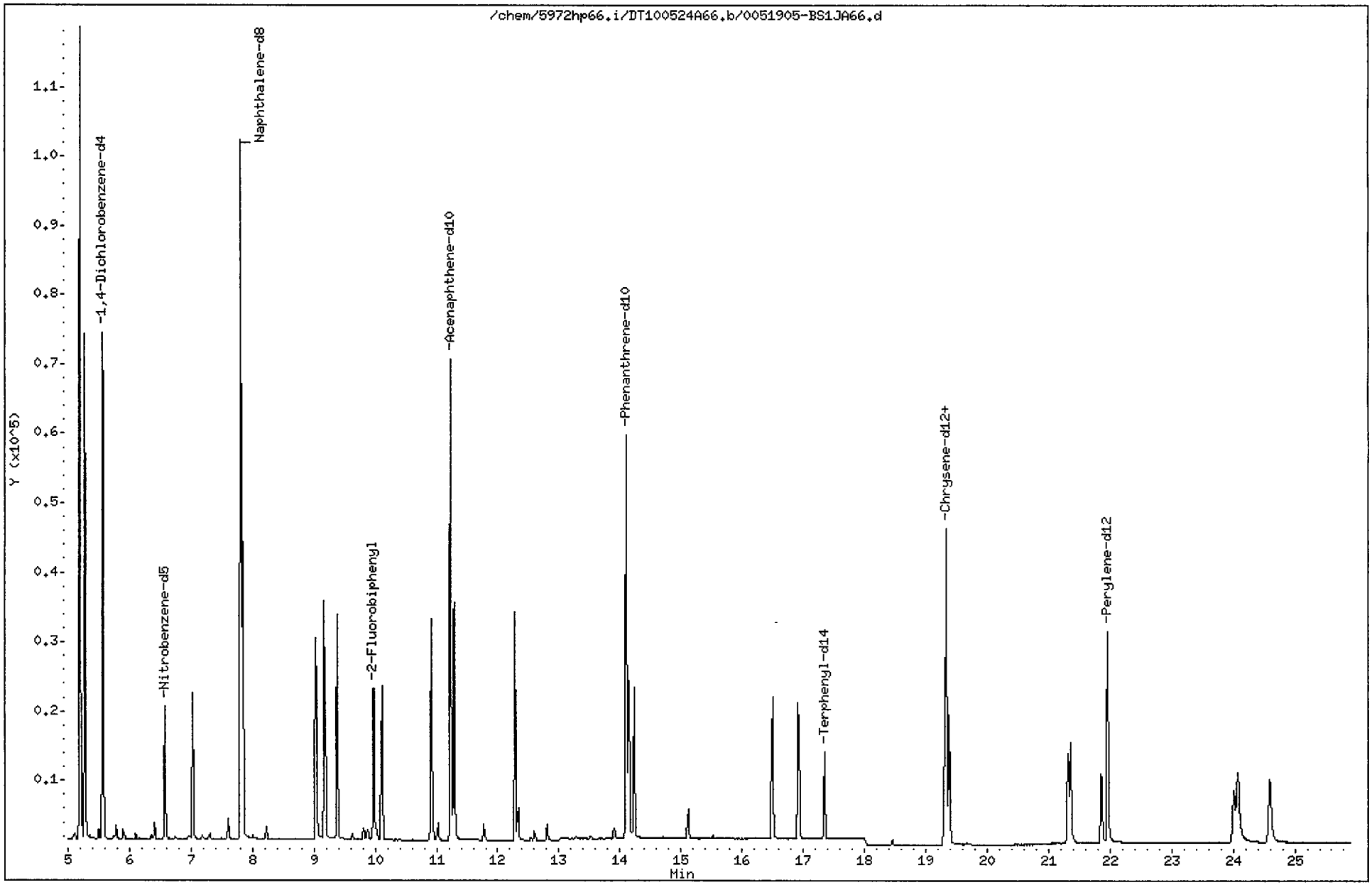
Date Extracted: 05/19/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.34	
91-57-6	2-Methylnaphthalene	0.015	0.20	0.38	
208-96-8	Acenaphthylene	0.0100	0.20	0.35	
83-32-9	Acenaphthene	0.035	0.20	0.35	
86-73-7	Fluorene	0.045	0.20	0.45	
85-01-8	Phenanthrene	0.035	0.20	0.45	
120-12-7	Anthracene	0.020	0.20	0.44	
206-44-0	Fluoranthene	0.0100	0.20	0.52	
129-00-0	Pyrene	0.0100	0.20	0.51	
56-55-3	Benzo(a)anthracene	0.020	0.20	0.46	
218-01-9	Chrysene	0.015	0.20	0.52	
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	0.41	
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	0.55	
50-32-8	Benzo(a)pyrene	0.0100	0.20	0.41	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	0.41	
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	0.46	
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	0.49	

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BS1JA66.d
Date : 24-MAY-2010 16:06
Client ID: SBNLCS
Instrument: 5972hp66.i
Sample Info: 0051905-BS1:2650
Volume Injected (uL): 2.0
Operator: 2650
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BS1JA66.d
Report Date: 01-Jun-2010 14:52

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100524A66.b/0051905-BS1JA66.d
Lab Smp Id: 0051905-BS1 Client Smp ID: SBNLCS
Inj Date : 24-MAY-2010 16:06
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 0051905-BS1:2650
Misc Info : SBNLCS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100524A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 14:52 byrd Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Dichlorobenzene-d4	152	5.573	5.569	(1.000)	45695	2.00000	
*	2 Naphthalene-d8	136	7.815	7.811	(1.000)	140298	2.00000	
*	3 Acenaphthene-d10	164	11.230	11.232	(1.000)	49353	2.00000	
*	4 Phenanthrene-d10	188	14.100	14.100	(1.000)	82039	2.00000	
*	5 Chrysene-d12	240	19.337	19.336	(1.000)	59219	2.00000	
*	6 Perylene-d12	264	21.960	21.960	(1.000)	48759	2.00000	
$	9 Nitrobenzene-d5	82	6.577	6.573	(0.842)	18921	0.64769	0.32
$	10 2-Fluorobiphenyl	172	9.979	9.975	(0.889)	38953	0.70311	0.35
$	12 Terphenyl-d14	244	17.346	17.346	(0.897)	15188	1.04273	0.52
	13 Naphthalene	128	7.841	7.851	(1.003)	57176	0.68725	0.34
	15 2-Methylnaphthalene	141	9.171	9.167	(0.817)	24116	0.75527	0.38
	17 Acenaphthylene	152	10.917	10.919	(0.972)	36291	0.69354	0.35
	18 Acenaphthene	154	11.295	11.297	(1.006)	21696	0.70695	0.35
	21 Fluorene	166	12.285	12.287	(0.871)	23220	0.89234	0.45
	25 Phenanthrene	178	14.152	14.139	(1.004)	33389	0.90545	0.45

Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BS1JA66.d
Report Date: 01-Jun-2010 14:52

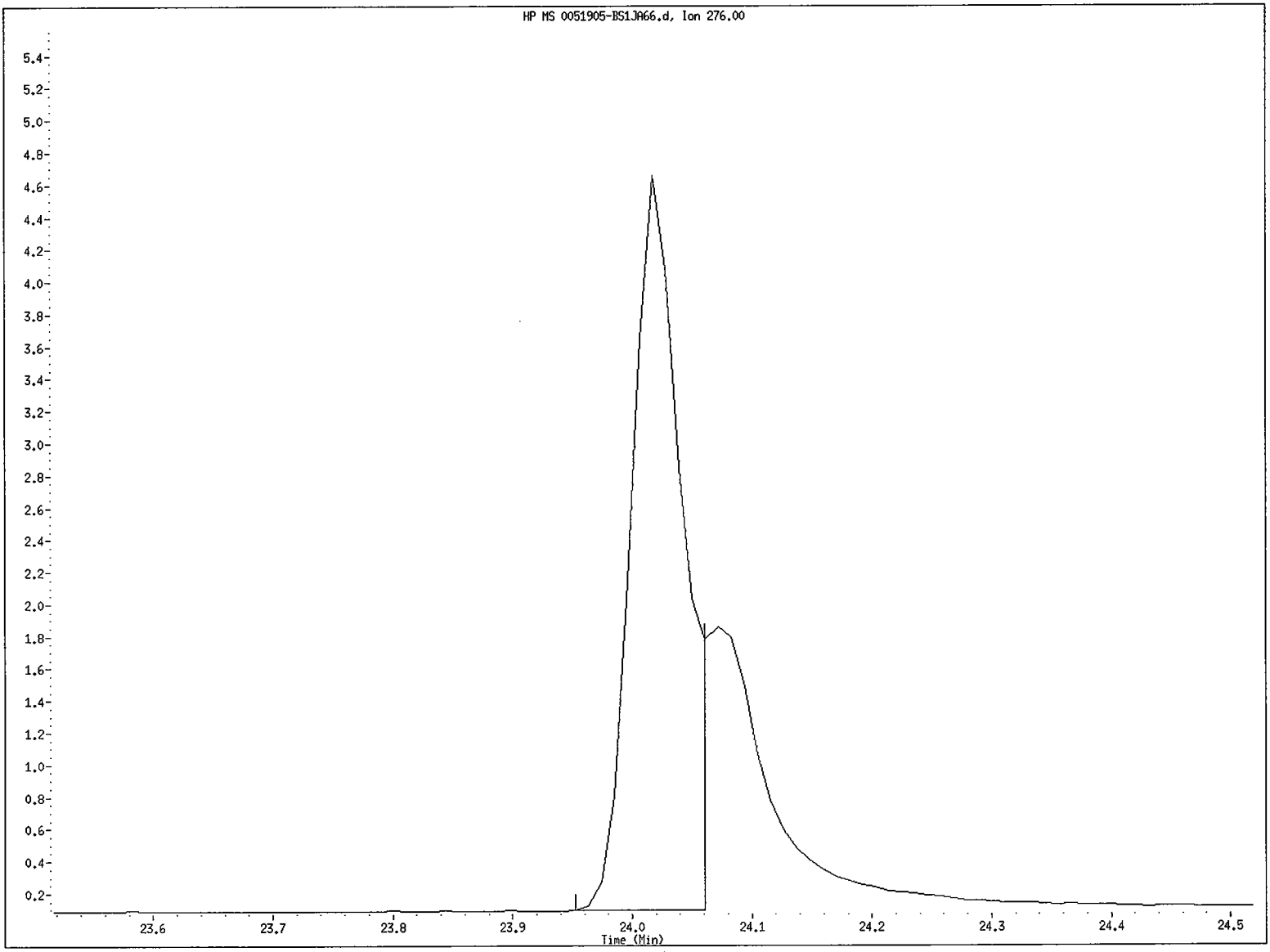
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
26 Anthracene	178	14.230	14.230	(1.009)	28924	0.87532	0.44
27 Fluoranthene	202	16.499	16.499	(0.853)	27319	1.04103	0.52
28 Pyrene	202	16.929	16.916	(0.875)	28847	1.01120	0.51
29 Benzo(a)anthracene	228	19.302	19.301	(0.998)	20031	0.91985	0.46
30 Chrysene	228	19.380	19.380	(1.002)	25331	1.03480	0.52
31 Benzo(b)fluoranthene	252	21.318	21.318	(0.971)	18884	0.81782	0.41
32 Benzo(k)fluoranthene	252	21.351	21.351	(0.972)	26722	1.10626	0.55
33 Benzo(a)pyrene	252	21.863	21.852	(0.996)	16361	0.83000	0.41
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.018	(1.094)	13924	0.82816	0.41(M)
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.097)	16659	0.92316	0.46
36 Benzo(g,h,i)perylene	276	24.605	24.605	(1.120)	19282	0.98861	0.49

v 06/14/10

QC Flag Legend

M - Compound response manually integrated.

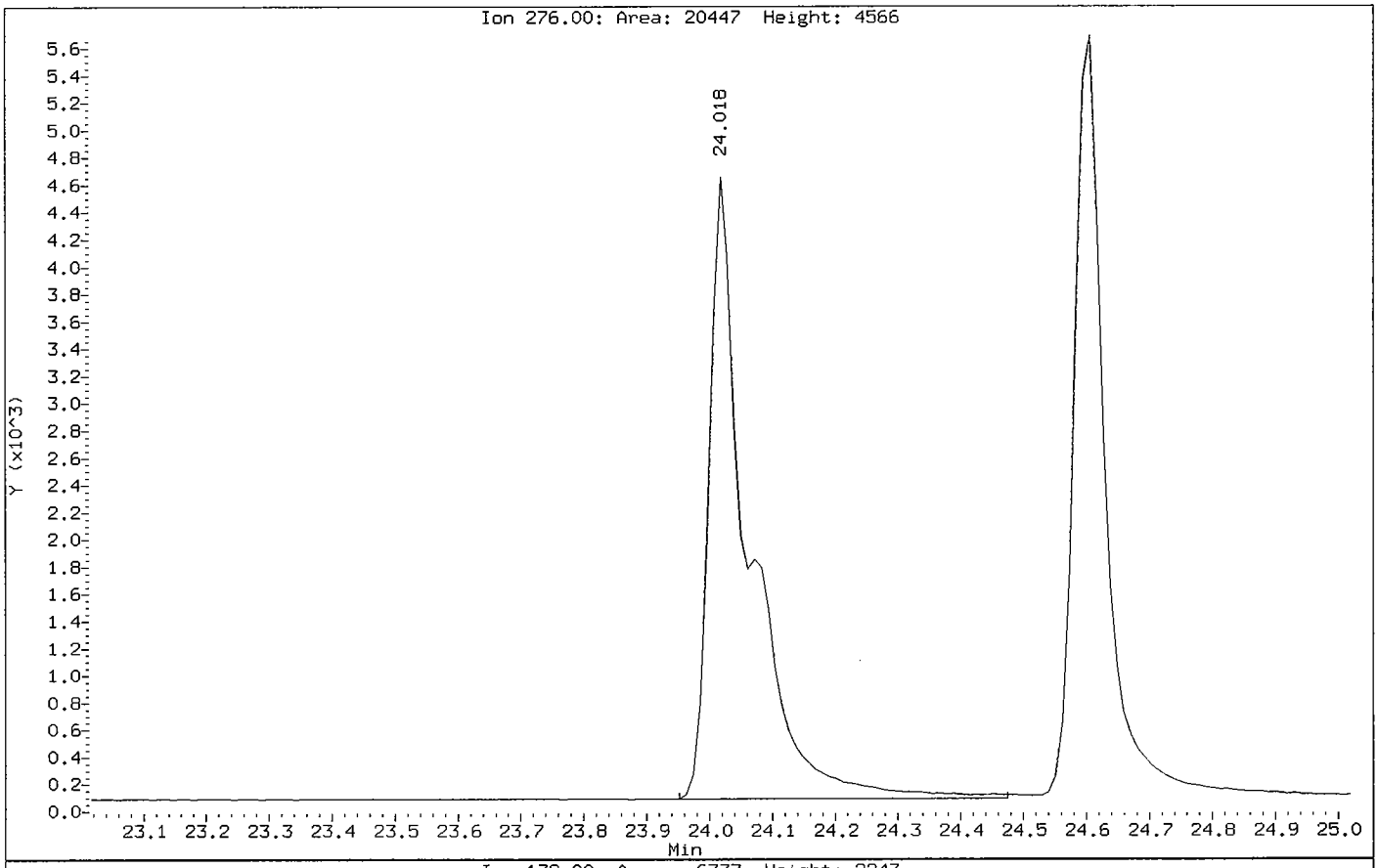
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 13924 Manually integrated

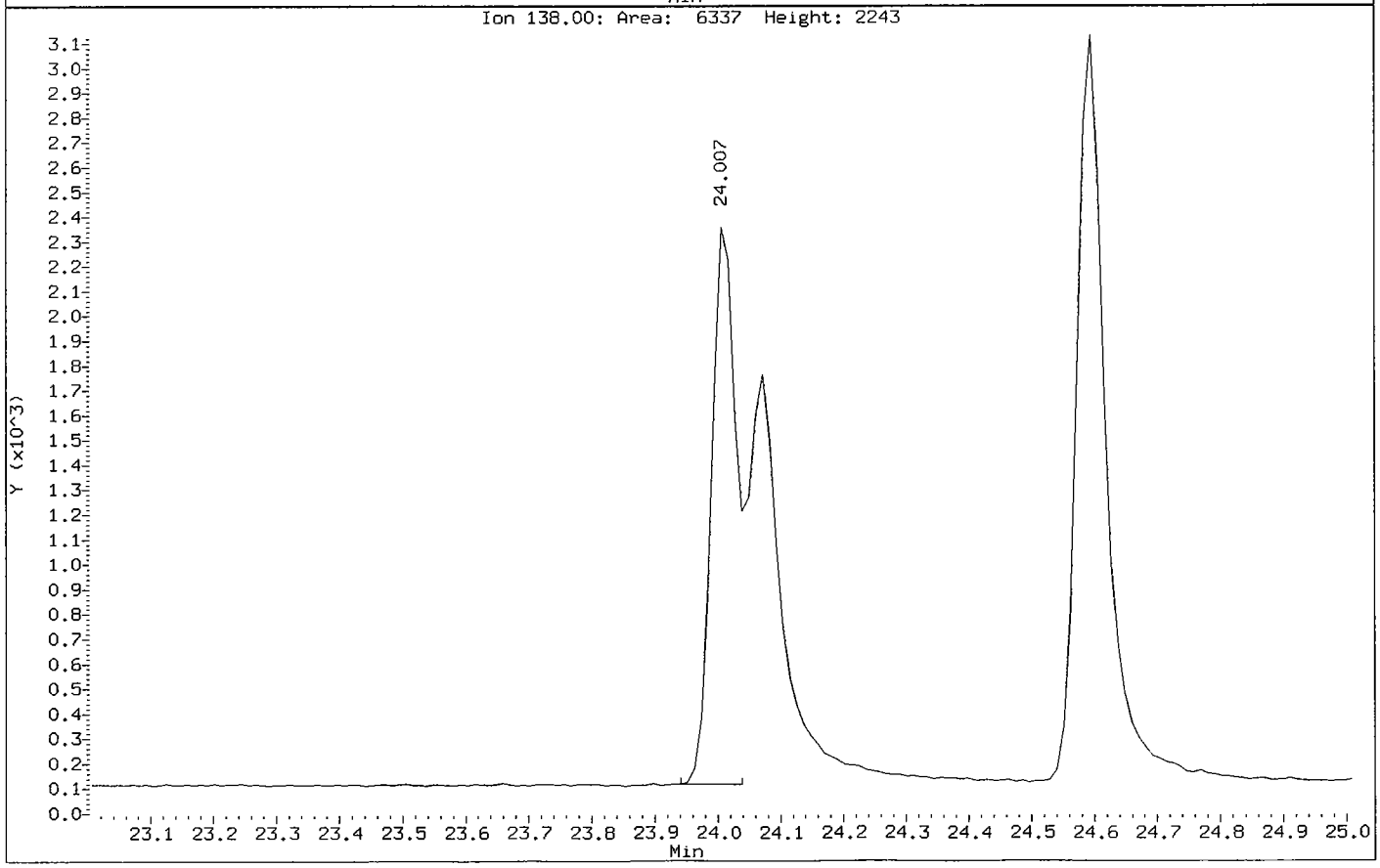


File name: /chem/5972hp66.i/DT100524A66.b/0051905-BS1JA66.d
Client ID: SBNLCS
Instrument ID: 5972hp66.i
Injection Date and Time: 24-MAY-2010 16:06
Retention Time: 24.02
Operator ID: 2650

Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BS1JA66.d
Injection Date: 24-MAY-2010 16:06
Instrument: 5972hp66.i
Client Sample ID: SBNLCS

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SBNLCSD

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0051905-BSD1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0051905-BSD1A66
Analyst: 2650

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0051905-BLK1

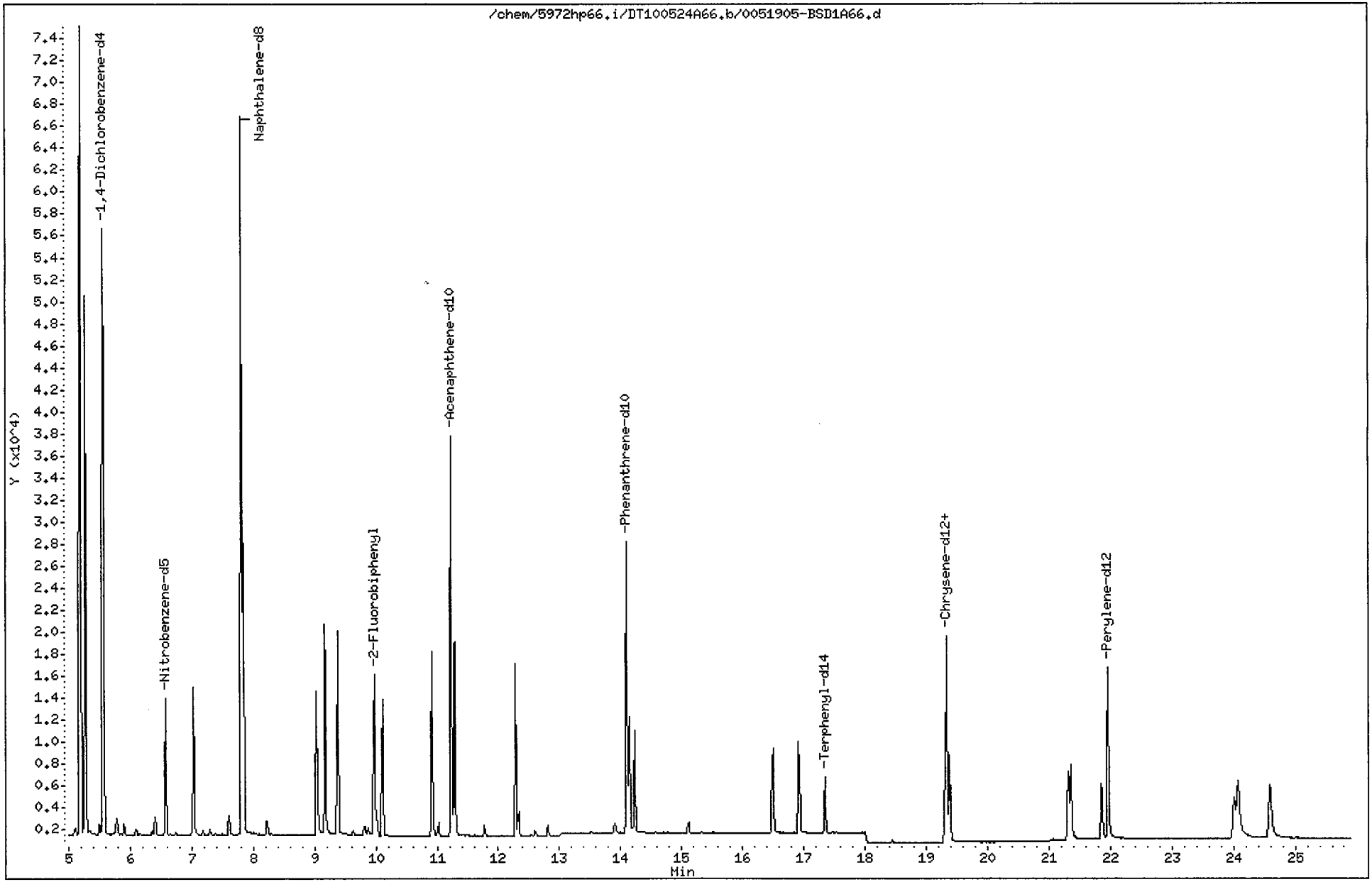
Date Extracted: 05/19/10
Date Analyzed: 05/24/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.34	
91-57-6	2-Methylnaphthalene	0.015	0.20	0.43	
208-96-8	Acenaphthylene	0.0100	0.20	0.34	
83-32-9	Acenaphthene	0.035	0.20	0.35	
86-73-7	Fluorene	0.045	0.20	0.49	
85-01-8	Phenanthrene	0.035	0.20	0.46	
120-12-7	Anthracene	0.020	0.20	0.40	
206-44-0	Fluoranthene	0.0100	0.20	0.50	
129-00-0	Pyrene	0.0100	0.20	0.49	
56-55-3	Benzo(a)anthracene	0.020	0.20	0.44	
218-01-9	Chrysene	0.015	0.20	0.53	
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	0.39	
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	0.54	
50-32-8	Benzo(a)pyrene	0.0100	0.20	0.42	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	0.44	
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	0.50	
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	0.56	

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BSD1A66.d
Date : 24-MAY-2010 13:50
Client ID: SBNLCSD
Instrument: 5972hp66.i
Sample Info: 0051905-BSD1:2650
Volume Injected (uL): 2.0
Operator: 2650
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BSD1A66.d
Report Date: 01-Jun-2010 14:52

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DT100524A66.b/0051905-BSD1A66.d
Lab Smp Id: 0051905-BSD1 Client Smp ID: SBNLCSD
Inj Date : 24-MAY-2010 13:50
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 0051905-BSD1:2650
Misc Info : SBNLCSD
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DT100524A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 14:52 byrd Quant Type: ISTD
Cal Date : 24-MAY-2010 01:31 Cal File: 0E24002-CAL5C66.d
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Dichlorobenzene-d4	152	5.557	5.569	(1.000)	32049	2.00000	
*	2 Naphthalene-d8	136	7.812	7.811	(1.000)	89502	2.00000	
*	3 Acenaphthene-d10	164	11.230	11.232	(1.000)	26289	2.00000	
*	4 Phenanthrene-d10	188	14.100	14.100	(1.000)	36306	2.00000	
*	5 Chrysene-d12	240	19.336	19.336	(1.000)	25076	2.00000	
*	6 Perylene-d12	264	21.960	21.960	(1.000)	24476	2.00000	
$	9 Nitrobenzene-d5	82	6.574	6.573	(0.841)	12455	0.66832	0.33
$	10 2-Fluorobiphenyl	172	9.976	9.975	(0.888)	22959	0.77799	0.39
$	12 Terphenyl-d14	244	17.347	17.346	(0.897)	6225	1.00929	0.50
	13 Naphthalene	128	7.838	7.851	(1.003)	36474	0.68723	0.34
	15 2-Methylnaphthalene	141	9.168	9.167	(0.816)	14753	0.86739	0.43
	17 Acenaphthylene	152	10.917	10.919	(0.972)	19048	0.68338	0.34
	18 Acenaphthene	154	11.295	11.297	(1.006)	11485	0.70256	0.35
	21 Fluorene	166	12.285	12.287	(0.871)	11353	0.98587	0.49
	25 Phenanthrene	178	14.139	14.139	(1.003)	14859	0.91053	0.46

Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BSD1A66.d
Report Date: 01-Jun-2010 14:52

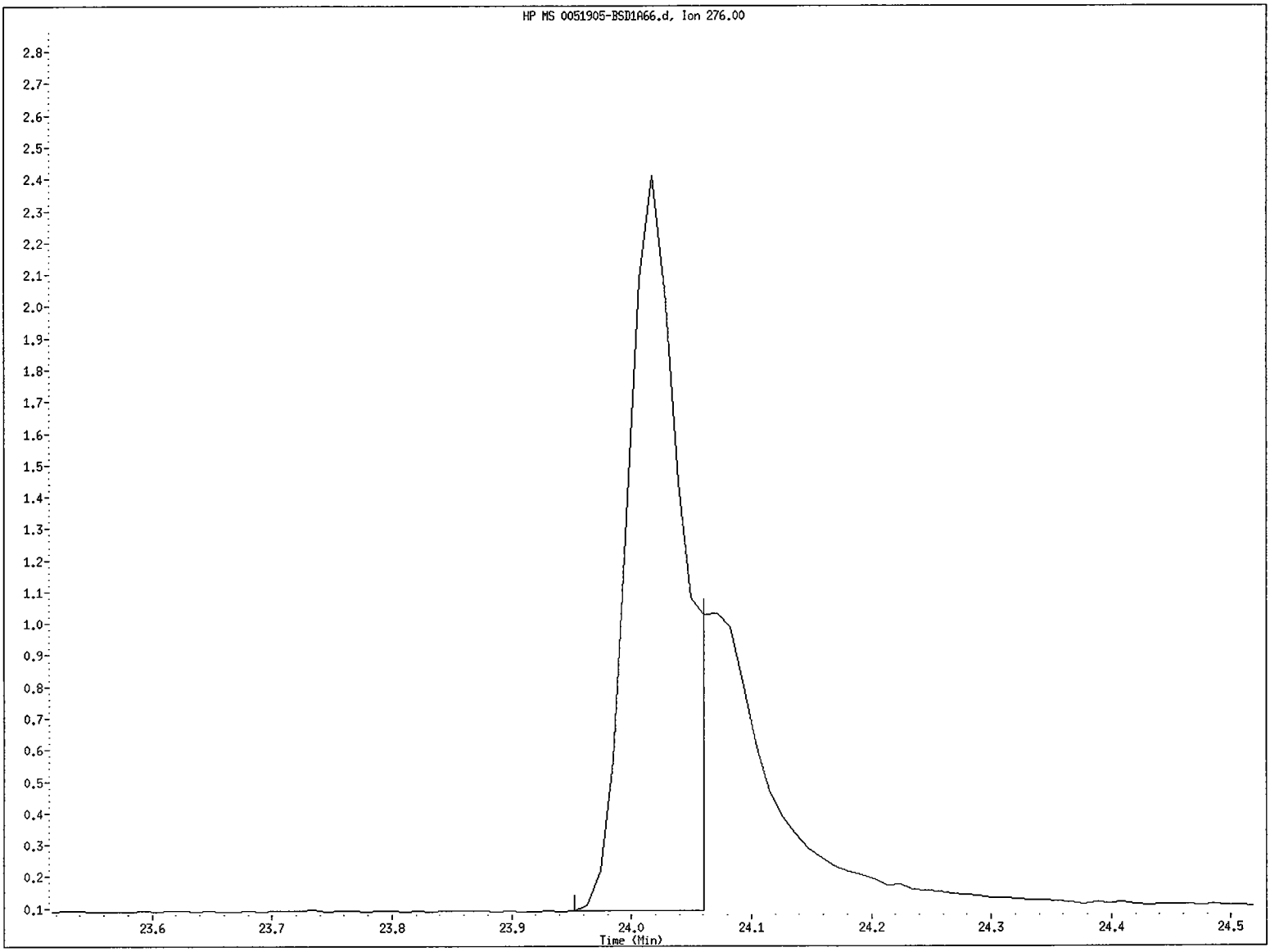
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
26 Anthracene	178	14.231	14.230	(1.009)	11583	0.79208	0.40
27 Fluoranthene	202	16.499	16.499	(0.853)	11159	1.00422	0.50
28 Pyrene	202	16.917	16.916	(0.875)	11834	0.97965	0.49
29 Benzo(a)anthracene	228	19.301	19.301	(0.998)	8074	0.87560	0.44
30 Chrysene	228	19.380	19.380	(1.002)	10903	1.05184	0.53
31 Benzo(b)fluoranthene	252	21.307	21.318	(0.970)	9117	0.78656	0.39
32 Benzo(k)fluoranthene	252	21.351	21.351	(0.972)	13102	1.08054	0.54
33 Benzo(a)pyrene	252	21.851	21.852	(0.995)	8230	0.83173	0.42
34 Indeno(1,2,3-cd)pyrene	276	24.017	24.018	(1.094)	7410	0.87797	0.44 (M)
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.097)	8995	0.99299	0.50
36 Benzo(g,h,i)perylene	276	24.594	24.605	(1.120)	10928	1.11616	0.56

2 06/1/10

QC Flag Legend

M - Compound response manually integrated.

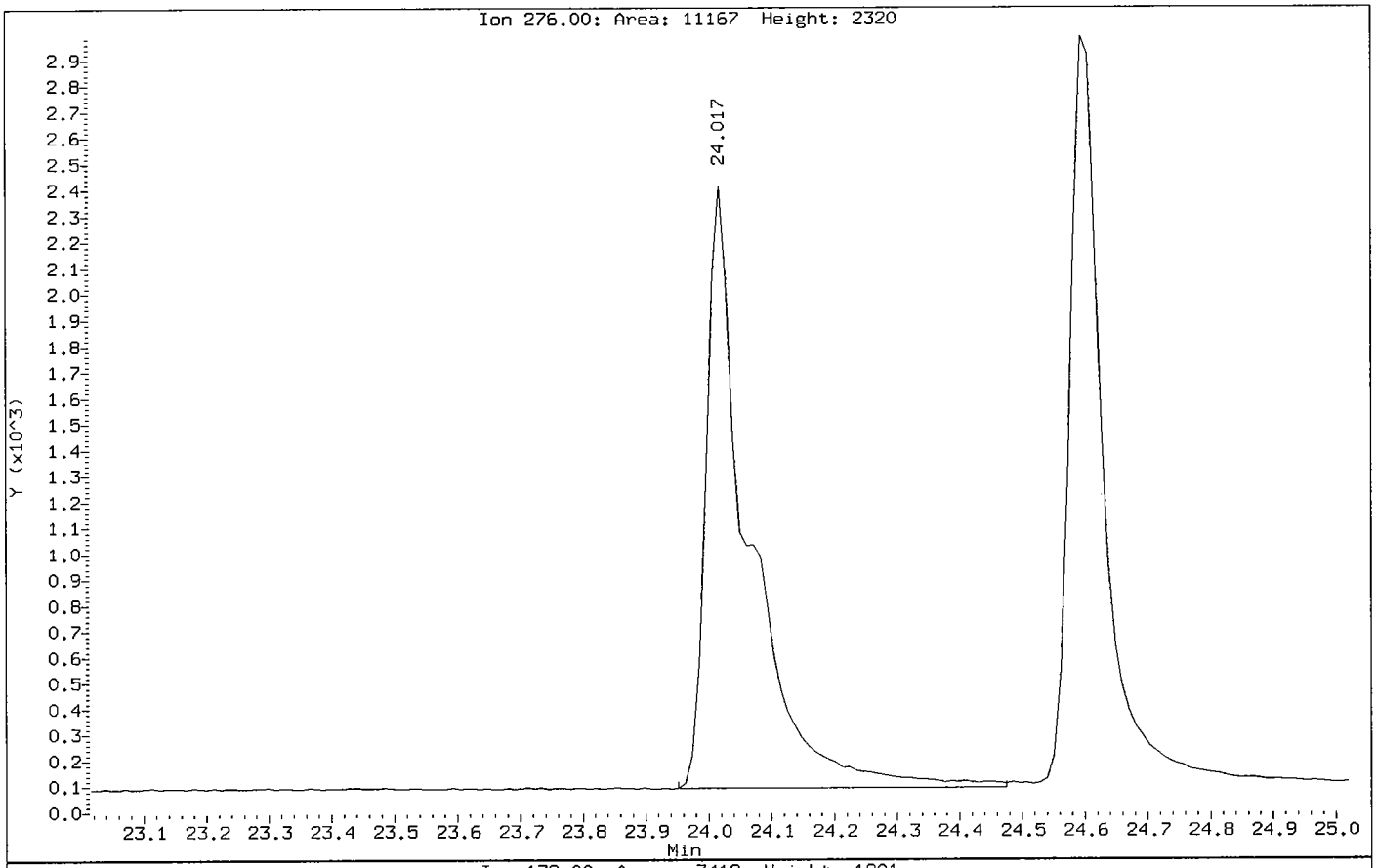
Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 7410 Manually integrated

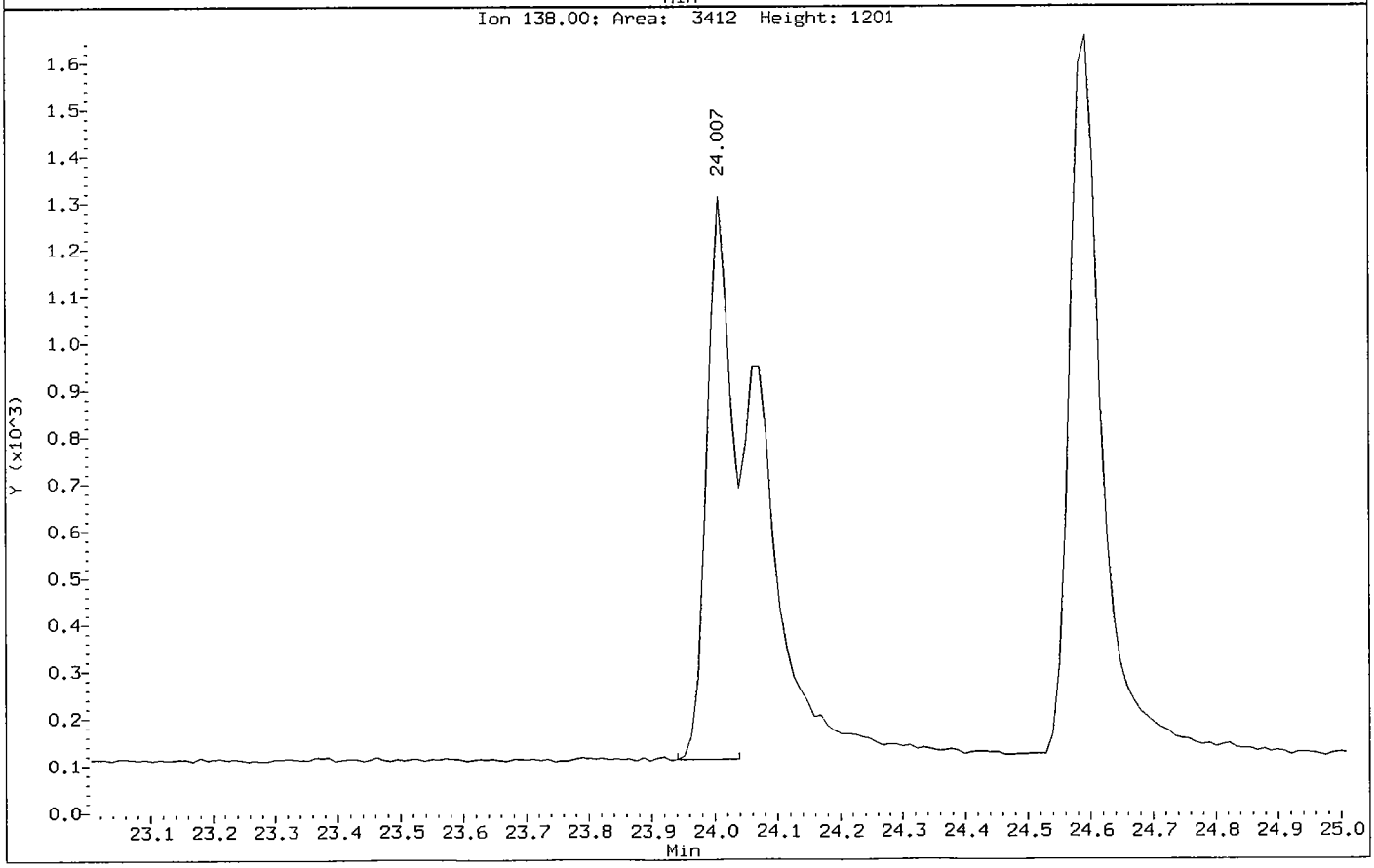


File name: /chem/5972hp66.i/DT100524A66.b/0051905-BSD1A66.d
Client ID: SBNLCSD
Instrument ID: 5972hp66.i
Injection Date and Time: 24-MAY-2010 13:50
Retention Time: 24.02
Operator ID: 2650

Data File: /chem/5972hp66.i/DT100524A66.b/0051905-BSD1A66.d
Injection Date: 24-MAY-2010 13:50
Instrument: 5972hp66.i
Client Sample ID: SBNLCSD

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SCBLCS

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0052402-BS1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0052402-BS1JC66
Analyst: 2743

% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052402-BLK1

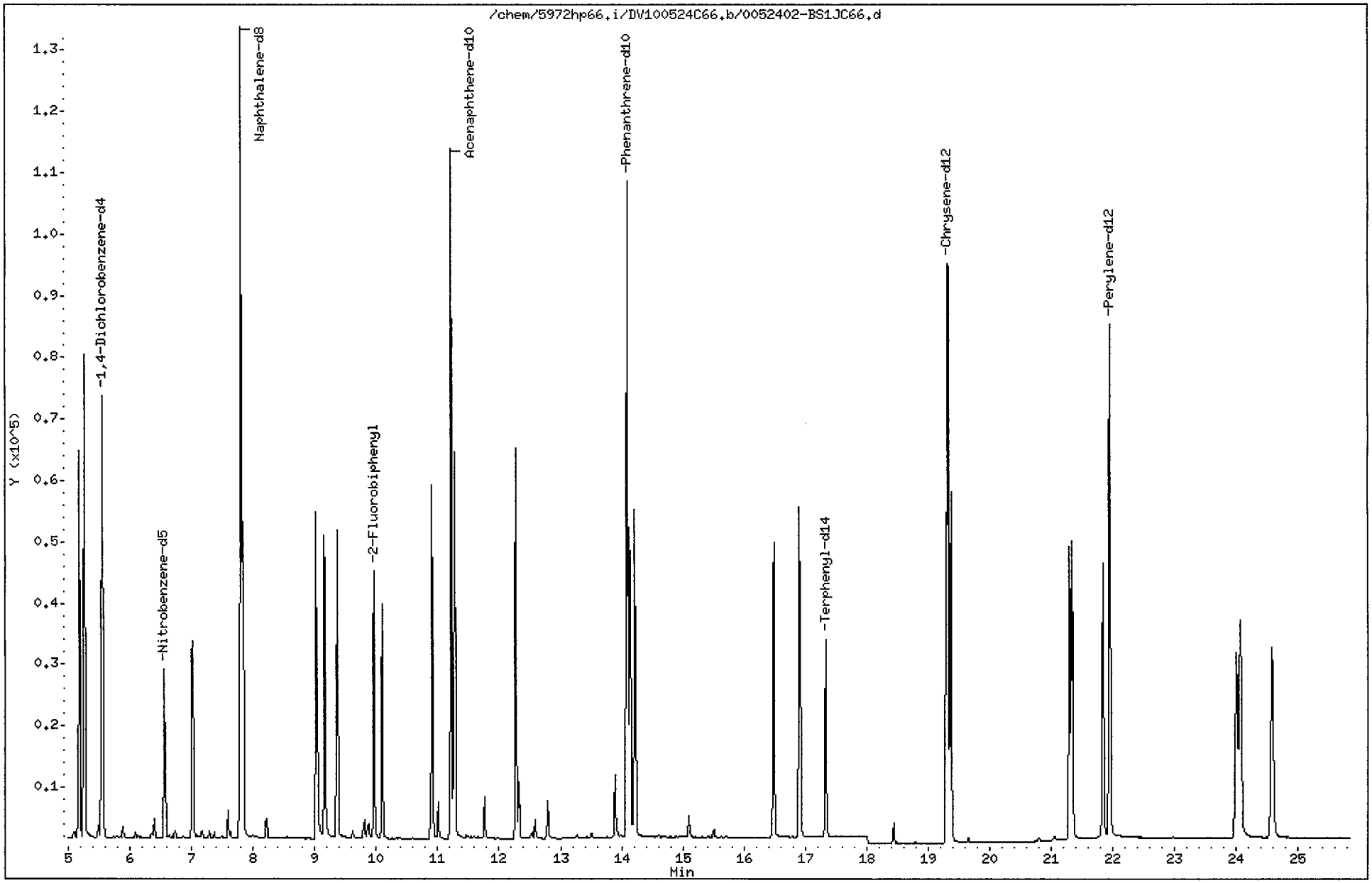
Date Extracted: 05/24/10
Date Analyzed: 05/25/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.39	
91-57-6	2-Methylnaphthalene	0.015	0.20	0.35	
208-96-8	Acenaphthylene	0.0100	0.20	0.37	
83-32-9	Acenaphthene	0.035	0.20	0.38	
86-73-7	Fluorene	0.045	0.20	0.34	
85-01-8	Phenanthrene	0.035	0.20	0.40	
120-12-7	Anthracene	0.020	0.20	0.40	
206-44-0	Fluoranthene	0.0100	0.20	0.41	
129-00-0	Pyrene	0.0100	0.20	0.40	
56-55-3	Benzo(a)anthracene	0.020	0.20	0.46	
218-01-9	Chrysene	0.015	0.20	0.46	
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	0.42	
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	0.44	
50-32-8	Benzo(a)pyrene	0.0100	0.20	0.43	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	0.41	
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	0.42	
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	0.41	

ND = Not Detected
Q = Qualifier

FORM I SV-1

Data File: /chem/5972hp66.i/DV100524C66.b/0052402-BS1JC66.d
Date : 25-MAY-2010 17:34
Client ID: SCBLCS
Instrument: 5972hp66.i
Sample Info: 0052402-BS1:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0052402-BS1JC66.d
Report Date: 01-Jun-2010 15:47

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0052402-BS1JC66.d
Lab Smp Id: 0052402-BS1 Client Smp ID: SCBLCS
Inj Date : 25-MAY-2010 17:34
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0052402-BS1:2743
Misc Info : SCBLCS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 15:46 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 18 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Dichlorobenzene-d4	152	5.558	5.547	(1.000)	47982	2.00000	
*	2 Naphthalene-d8	136	7.800	7.802	(1.000)	171994	2.00000	
*	3 Acenaphthene-d10	164	11.217	11.218	(1.000)	79674	2.00000	
*	4 Phenanthrene-d10	188	14.088	14.087	(1.000)	143635	2.00000	
*	5 Chrysene-d12	240	19.327	19.319	(1.000)	128243	2.00000	
*	6 Perylene-d12	264	21.950	21.949	(1.000)	115730	2.00000	
$	9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	28017	0.73205	0.37
$	10 2-Fluorobiphenyl	172	9.963	9.952	(0.888)	69331	0.83389	0.42
$	12 Terphenyl-d14	244	17.335	17.333	(0.897)	38507	0.82640	0.41
	13 Naphthalene	128	7.826	7.828	(1.003)	81972	0.77051	0.39
	15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	40260	0.70577	0.35
	17 Acenaphthylene	152	10.905	10.905	(0.972)	65782	0.73914	0.37
	18 Acenaphthene	154	11.282	11.270	(1.006)	39569	0.75884	0.38
	21 Fluorene	166	12.273	12.274	(0.871)	46027	0.68469	0.34
	25 Phenanthrene	178	14.127	14.126	(1.003)	71651	0.79999	0.40

6/1/10

Data File: /chem/5972hp66.i/DV100524C66.b/0052402-BS1JC66.d
Report Date: 01-Jun-2010 15:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
26 Anthracene	178	14.219	14.217	(1.009)	65182	0.80909	0.40
27 Fluoranthene	202	16.487	16.486	(0.853)	69675	0.81935	0.41
28 Pyrene	202	16.905	16.903	(0.875)	73944	0.79847	0.40
29 Benzo(a)anthracene	228	19.292	19.293	(0.998)	63643	0.91293	0.46
30 Chrysene	228	19.371	19.371	(1.002)	69900	0.92572	0.46
31 Benzo(b)fluoranthene	252	21.297	21.296	(0.970)	64631	0.84681	0.42
32 Benzo(k)fluoranthene	252	21.341	21.339	(0.972)	72706	0.88522	0.44
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	59563	0.86600	0.43
34 Indeno(1,2,3-cd)pyrene	276	23.997	23.995	(1.093)	49528	0.81624	0.41
35 Dibenzo(a,h)anthracene	278	24.062	24.061	(1.096)	50902	0.84805	0.42
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	54950	0.81706	0.41

1BCWC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Project ID:
Client SDG No: 1005131
Client Sample ID: SCBLCSD

Lab Project Number:
Method: 8270C-SIM
Date Collected: _____

Lab Sample ID: 0052402-BSD1
Sample wt/vol: 1000 (g/mL) ML
Level: (low/med) LOW

Date Received: _____
Lab File ID: 0052402-BSD1C66
Analyst: 2743

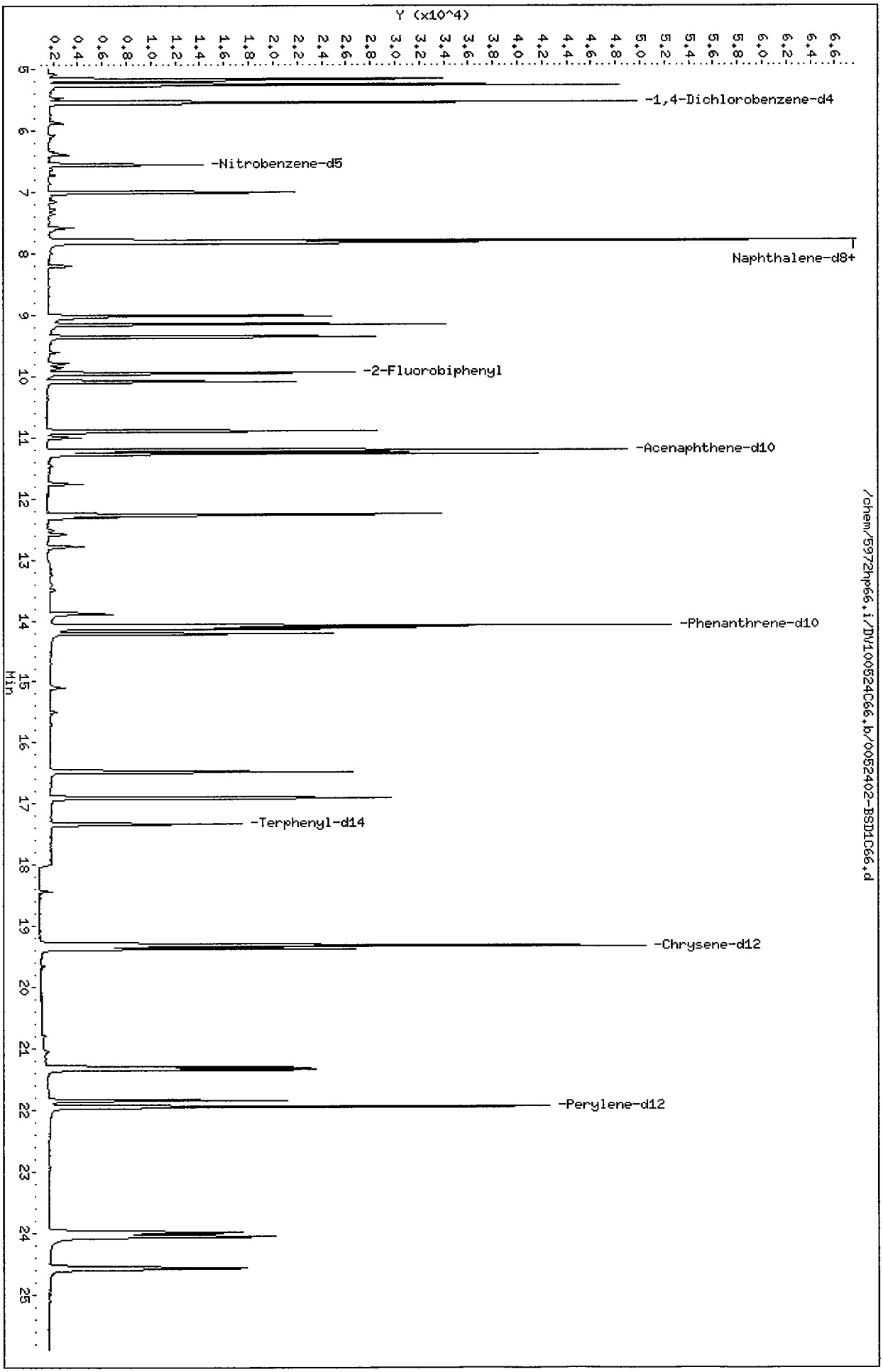
% Moisture: _____ decanted: (Y/N) ___
Concentrated Extract Volume: 1000(uL)
Injection Volume: 2.0(uL)
GPC Cleanup: (Y/N) N
Method Blank: 0052402-BLK1

Date Extracted: 05/24/10
Date Analyzed: 05/25/10
Dilution Factor: 1.0

CAS NO.	COMPOUND	MDL	Reporting Limit UG/L	Results UG/L	Q
91-20-3	Naphthalene	0.030	0.20	0.39	
91-57-6	2-Methylnaphthalene	0.015	0.20	0.37	
208-96-8	Acenaphthylene	0.0100	0.20	0.39	
83-32-9	Acenaphthene	0.035	0.20	0.40	
86-73-7	Fluorene	0.045	0.20	0.37	
85-01-8	Phenanthrene	0.035	0.20	0.43	
120-12-7	Anthracene	0.020	0.20	0.41	
206-44-0	Fluoranthene	0.0100	0.20	0.42	
129-00-0	Pyrene	0.0100	0.20	0.40	
56-55-3	Benzo(a)anthracene	0.020	0.20	0.42	
218-01-9	Chrysene	0.015	0.20	0.45	
205-99-2	Benzo(b)fluoranthene	0.0100	0.20	0.44	
207-08-9	Benzo(k)fluoranthene	0.0100	0.20	0.39	
50-32-8	Benzo(a)pyrene	0.0100	0.20	0.41	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0100	0.20	0.41	
53-70-3	Dibenzo(a,h)anthracene	0.0100	0.20	0.42	
191-24-2	Benzo(g,h,i)perylene	0.0100	0.20	0.43	

ND = Not Detected
Q = Qualifier

FORM I SV-1


Data File: /chem/5972hp66.i/DV100524C66.b/0052402-BSD1C66.d
Date : 25-MAY-2010 11:55
Client ID: SCBLCSD
Sample Info: 0052402-BSD1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS
Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32
Y (x10^4)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
Naphthalene-d8+
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min
/chem/5972hp66.i/DV100524C66.b/0052402-BSD1C66.d

Data File: /chem/5972hp66.i/DV100524C66.b/0052402-BSD1C66.d
Report Date: 01-Jun-2010 15:47

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0052402-BSD1C66.d
Lab Smp Id: 0052402-BSD1 Client Smp ID: SCBLCSD
Inj Date : 25-MAY-2010 11:55
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0052402-BSD1:2743
Misc Info : SCBLCSD
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 15:46 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 10 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
*	1 1,4-Dichlorobenzene-d4	152	5.543	5.547	(1.000)	26848	2.00000	
*	2 Naphthalene-d8	136	7.785	7.802	(1.000)	93250	2.00000	
*	3 Acenaphthene-d10	164	11.218	11.218	(1.000)	41267	2.00000	
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	70526	2.00000	
*	5 Chrysene-d12	240	19.319	19.319	(1.000)	63541	2.00000	
*	6 Perylene-d12	264	21.940	21.949	(1.000)	59818	2.00000	
$	9 Nitrobenzene-d5	82	6.560	6.563	(0.843)	15827	0.76275	0.38
$	10 2-Fluorobiphenyl	172	9.949	9.952	(0.887)	24843	0.57690	0.29
$	12 Terphenyl-d14	244	17.333	17.333	(0.897)	19849	0.85974	0.43
	13 Naphthalene	128	7.824	7.828	(1.005)	44460	0.77081	0.39
	15 2-Methylnaphthalene	141	9.154	9.157	(0.816)	22133	0.74911	0.37
	17 Acenaphthylene	152	10.905	10.905	(0.972)	35864	0.77803	0.39
	18 Acenaphthene	154	11.270	11.270	(1.005)	21504	0.79621	0.40
	21 Fluorene	166	12.261	12.274	(0.870)	24669	0.74739	0.37
	25 Phenanthrene	178	14.126	14.126	(1.003)	37509	0.85292	0.43

Data File: /chem/5972hp66.i/DV100524C66.b/0052402-BSD1C66.d
Report Date: 01-Jun-2010 15:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
26 Anthracene	178	14.217	14.217	(1.009)	32503	0.82168	0.41
27 Fluoranthene	202	16.472	16.486	(0.853)	35455	0.84149	0.42
28 Pyrene	202	16.903	16.903	(0.875)	37020	0.80681	0.40
29 Benzo(a)anthracene	228	19.284	19.293	(0.998)	29106	0.84265	0.42
30 Chrysene	228	19.362	19.371	(1.002)	33614	0.89847	0.45
31 Benzo(b)fluoranthene	252	21.298	21.296	(0.971)	34535	0.87543	0.44
32 Benzo(k)fluoranthene	252	21.330	21.339	(0.972)	32948	0.77611	0.39
33 Benzo(a)pyrene	252	21.842	21.840	(0.996)	28879	0.81234	0.41
34 Indeno(1,2,3-cd)pyrene	276	23.986	23.995	(1.093)	25442	0.81121	0.41
35 Dibenzo(a,h)anthracene	278	24.052	24.061	(1.096)	26355	0.84950	0.42
36 Benzo(g,h,i)perylene	276	24.574	24.572	(1.120)	29695	0.85425	0.43

d. Matrix Spike Data

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report

e. Matrix Spike Duplicate Data

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report

CompuChem

A Division Of

Liberty Analytical Corp.

6/15/2010

REBEKHA SHAW

CH2M HILL, INC.

P.O. BOX 241329

DENVER, CO 80224

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM
WorkOrder: 1005131

Attn. REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES ____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem
A Division Of
Liberty Analytical Corp.

SDG NARRATIVE
SDG # 1005131

The 5 water samples were received intact between 0.7C and 2.3C, with proper documentations, in sealed shipping containers, on May 13th, 14th, and 19th, 2010. The samples were scheduled for the requested analyses of the Wet Chemistry fraction. The samples were analyzed, in accordance with current EPA methods, for the analytes requested as per the COC, with the exceptions and/or additions requested by the client.

SAMPLE IDs:
The cover page contained in this package lists the client ID's and the associated CompuChem numbers which are part of this SDG.

INSTRUMENTAL QUALITY CONTROL:
All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:
The sample preparation procedure verifications (LCS & Blank) were found to be within acceptable ranges. All field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:
N/A

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Preeti Khare
Data Reviewer I
June 15th, 2010

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EB051210-SS	1005131-01	Water	05/12/2010 10:30	05/13/2010 09:30
EB051310-SB	1005131-02	Water	05/13/2010 12:00	05/14/2010 09:20
BBG-FB051310	1005131-03	Water	05/13/2010 12:20	05/14/2010 09:20
BBG-FB051810	1005131-04	Water	05/18/2010 12:00	05/19/2010 09:05
EB051810-SS	1005131-05	Water	05/18/2010 12:05	05/19/2010 09:05

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

EB051210-SS

1005131-01 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**3.60**	J	10.0	ug/L	1	0052541	05/13/2010 10:36	05/13/2010 10:49	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

EB051310-SB

1005131-02 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0052541	05/14/2010 10:00	05/14/2010 10:05	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

BBG-FB051310

1005131-03 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0052541	05/14/2010 10:00	05/14/2010 10:04	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

BBG-FB051810

1005131-04 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	10.0	ug/L	1	0052541	05/19/2010 10:00	05/19/2010 10:19	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

EB051810-SS

1005131-05 (Water)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
TOTAL METALS BY ICP/CV									
Chromium	ND		5.00	ug/L	1	0061508	06/11/2010 13:17	06/11/2010 13:17	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.15**	J	10.0	ug/L	1	0052541	05/19/2010 10:00	05/19/2010 10:20	EPA 7196A
Trivalent Chromium	ND		5.00	ug/L	1	[CALC]	06/11/2010 13:17	06/11/2010 13:17	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

WET CHEMISTRY PARAMETERS - Quality Control

COMPUCHEM

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0052541 - Default Prep GenChem										
Blank (0052541-BLK1)				Prepared: 05/13/2010 10:36 Analyzed: 05/13/2010 10:50						
Hexavalent Chromium	2.53	10.0	ug/L							
Blank (0052541-BLK2)				Prepared: 05/14/2010 10:00 Analyzed: 05/14/2010 10:02						
Hexavalent Chromium	ND	10.0	ug/L							
Blank (0052541-BLK3)				Prepared: 05/19/2010 10:00 Analyzed: 05/19/2010 10:18						
Hexavalent Chromium	ND	10.0	ug/L							
LCS (0052541-BS1)				Prepared: 05/13/2010 10:36 Analyzed: 05/13/2010 10:48						
Hexavalent Chromium	253	10.0	ug/L	250.0		101	90-110			
LCS (0052541-BS2)				Prepared: 05/14/2010 09:00 Analyzed: 05/14/2010 10:03						
Hexavalent Chromium	252	10.0	ug/L	250.0		101	90-110			
LCS (0052541-BS3)				Prepared: 05/19/2010 10:00 Analyzed: 05/19/2010 10:19						
Hexavalent Chromium	249	10.0	ug/L	250.0		99.6	90-110			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/15/2010 13:57

Notes and Definitions

U	The compound was analyzed for but not detected (CLP U-flag).
J	Compound detected below the Reporting Limit; therefore, result is an estimated concentration (CLP J-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.01:4045
	HEXAVALENT CHROMIU	(Water)	Result calculations based on MDL
	HEXAVALENT CHROMIU	(Water)	Special Units: (ug/L)
	Total Cr by Metals	(Water)	Result calculations based on MDL
	Total Cr by Metals	(Water)	RPD calculations based on %Recovery
	Total Cr by Metals	(Water)	Special Units: (ug/L)
	TRIVALENT CHROMIUM	(Water)	B-Flags used
	TRIVALENT CHROMIUM	(Water)	D-Flags used
	TRIVALENT CHROMIUM	(Water)	J-Flags used
	TRIVALENT CHROMIUM	(Water)	Result calculations based on MDL
	TRIVALENT CHROMIUM	(Water)	U-Flags used
0052541-BLK1	HEXAVALENT CHROMIU	Hexavalent Chromium	Blank >1 x MDL
1005131-01	TRIVALENT CHROMIUM		Sampled->Prepared > 30.00 days

Maintenance: N/A

Method(s) HEXAVALENT CHROMIUM 7196A

Operator(s): JM Date/Time 5-13-10/10:37 to 5-13-10/10:52

Printed: 6/8/2010 10:40:01 AM

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005131	Water	#01 ✓

Batch
0052541

Lachat C2 Run Log

File Name: 0513CR63

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
1	CAL8	S400	CALIB STD	1	05/13/2010	10:37:57	6549402.0	
2	CAL6	S200	CALIB STD	1	05/13/2010	10:38:50	3268890.0	
3	CAL5	S100	CALIB STD	1	05/13/2010	10:39:43	1592398.0	
4	CAL4	S50	CALIB STD	1	05/13/2010	10:40:36	815812.0	
5	CAL3	S20	CALIB STD	1	05/13/2010	10:41:30	352195.0	
6	CAL2	S10	CALIB STD	1	05/13/2010	10:42:25	187940.0	
7	CAL1	S0	CALIB STD	1	05/13/2010	10:43:20	18677.0	
13	ICV	ICV	ICV	1	05/13/2010	10:45:12	252.0538	
14	ICB	ICB	ICB	1	05/13/2010	10:46:07	0.9098	
1	0052541-BLK1	0052541-BLK1	BLANK	1	05/13/2010	10:48:00	7.5551	zzzzz Air peak
2	0052541-BS1	0052541-BS1	LCS	1	05/13/2010	10:48:54	253.3900	
3	1005131-01	EB051210-SS	SAMPLE	1	05/13/2010	10:49:49	3.6011	
1	0052541-BLK1	0052541-BLK1	BLANK	1	05/13/2010	10:50:43	2.5336	
2	CCV1	CCV	CCV	1	05/13/2010	10:51:36	199.5143	
7	CCB1	CCB	CCB	1	05/13/2010	10:52:30	1.0402	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP 1.0402has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 6-10-10

Maintenance: N/A

Method(s) HEXAVALENT CHROMIUM 7196A

Operator(s): MM Date/Time 5-14-10/09:52 to 5-14-10/10:50

Printed: 6/8/2010 10:42:41 AM

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005131	Water	#03, 02 ✓

Batch
0052541

Lachat C2 Run Log

File Name: 0514CR61

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
1	CAL8	S400	CALIB STD	1	05/14/2010	09:52:28	6580932.0	
2	CAL6	S200	CALIB STD	1	05/14/2010	09:53:21	3298068.0	
3	CAL5	S100	CALIB STD	1	05/14/2010	09:54:13	1616661.0	
4	CAL4	S50	CALIB STD	1	05/14/2010	09:55:07	832738.0	
5	CAL3	S20	CALIB STD	1	05/14/2010	09:56:01	361023.0	
6	CAL2	S10	CALIB STD	1	05/14/2010	09:56:55	190458.0	
7	CAL1	S0	CALIB STD	1	05/14/2010	09:57:50	19487.0	
13	ICV	ICV	ICV	1	05/14/2010	09:59:43	251.3753	
14	ICB	ICB	ICB	1	05/14/2010	10:00:37	0.2790	
1	0052541-BLK2	0052541-BLK2	BLANK	1	05/14/2010	10:02:30	0.3501	
2	0052541-BS2	0052541-BS2	LCS	1	05/14/2010	10:03:24	251.9378	
3	1005131-03	BBG-FB051310	SAMPLE	1	05/14/2010	10:04:18	0.4895	
4	1005131-02	EB051310-SB	SAMPLE	1	05/14/2010	10:05:11	0.2694	
2	CCV1	CCV	CCV	1	05/14/2010	10:06:04	203.7082	
7	CCB1	CCB	CCB	1	05/14/2010	10:06:58	0.2915	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP 0.2915has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 6-10-10

Maintenance: N/A

Method(s) HEXAVALENT CHROMIUM 7196A

Operator(s): JM Date/Time 5-19-10 10:08 to 5-19-10 10:23

Printed: 6/8/2010 10:50:06 AM

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005131	Water	#04, 05 ✓

Batch
0052541

Lachat C2 Run Log

File Name: 0519CR61

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
1	CAL8	S400	CALIB STD	1	05/19/2010	10:08:03	6455723.0	
2	CAL6	S200	CALIB STD	1	05/19/2010	10:08:56	3230253.0	
3	CAL5	S100	CALIB STD	1	05/19/2010	10:09:48	1592317.0	
4	CAL4	S50	CALIB STD	1	05/19/2010	10:10:42	851984.0	
5	CAL3	S20	CALIB STD	1	05/19/2010	10:11:36	338902.0	
6	CAL2	S10	CALIB STD	1	05/19/2010	10:12:30	195201.0	
7	CAL1	S0	CALIB STD	1	05/19/2010	10:13:25	11298.0	
13	ICV	ICV	ICV	1	05/19/2010	10:15:17	248.1225	
14	ICB	ICB	ICB	1	05/19/2010	10:16:12	0.6578	
1	0052541-BLK3	0052541-BLK3	BLANK	1	05/19/2010	10:18:06	0.8066	
2	0052541-BS3	0052541-BS3	LCS	1	05/19/2010	10:19:00	248.9365	
3	1005131-04	BBG-FB051810	SAMPLE	1	05/19/2010	10:19:54	0.7853	
4	1005131-05	EB051810-SS	SAMPLE	1	05/19/2010	10:20:48	1.1471	
2	CCV1	CCV	CCV	1	05/19/2010	10:21:41	202.7166	
7	CCB1	CCB	CCB	1	05/19/2010	10:22:35	0.9324	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP 0.9324has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 6/10/10

Standards/QC Preparation for Chromium (VI) on Lachat

Sequence Filename: 05130r63, 05140r61, 05190r61

COMPUCHEM a Division of Liberty Analytical Corporation WORKSHEET 1 XXX 1

STANDARDS AND REAGENTS TRACEABILITY*	REF#	MANUFACTURER	LOT#	EXPIRATION DATE
Hexavalent Chromium, stock standard solution 1000 ug/ml	1u(6)1-18-2	Spcepure from Alfa Aesar	93-095848B	9/23/2010
2ND Source Hexavalent Chromium solution (1000mg/L)	1u(6)1-17-25	NSI	010709	01/31/11
Concentrated H_2SO_4	1m2-187-21	Caledon	68764	05/2012
Isopropanol	1u(6)1-18-11	VWR	080709C	12/16/2015
Diphenylcarbohydrazide	1U(6)1-15-22	J.T. Baker	G33614	11/20/2013

REAGENT/STANDARD LOT NUMBER**	PREPARATION INSTRUCTIONS
Color Reagent – 05 13 10 jm	Dissolve 0.20g of diphenylcarbazide in 100 mL of isopropanol in a 500 mL volumetric flask. Stir with a magnetic stirrer until dissolved. Add approximately 350 mL DI H_2O and 40 mL concentrated H_2SO_4 and dilute to the line with DI H_2O. Mix with a magnetic stirrer. This solution is stable for one month. Note: This solution will gradually change from colorless to tan. This will not affect its use.
Chromium (VI) Intermd. Std. A (10 ppm) - 05 13 10 jm	Place in a 100-ml volumetric flask: 1.0 mls of the Hexavalent Chromium, stock standard solution 1000 ug/ml Dilute to mark with deionized water. Prepare fresh yearly.
Chromium (VI) standard (400 ppb) – 05 13 10 jm	Place in a 100-ml volumetric flask: 4.0 ml of chromium (VI) stock intermediate standard A Dilute to mark with deionized water. Prepare fresh weekly or more often as needed.
Chromium (VI) standard (200 ppb) – 05 13 10 jm	Place in a 100-ml volumetric flask: 2.0 ml of chromium (VI) intermediate standard A Dilute to mark with deionized water. Prepare fresh weekly or more often as needed.
Chromium (VI) standard (100 ppb) – 05 13 10 jm	Place in a 100-ml volumetric flask: 1.0 ml of chromium (VI) intermediate standard A Dilute to mark with deionized water. Prepare fresh weekly or more often as needed
Chromium (VI) standard (50 ppb) – 05 13 10 jm	Place in a 100-ml volumetric flask: 0.5 ml of chromium (VI) intermediate standard A Dilute to mark with deionized water. Prepare fresh weekly or more often as needed
Chromium (VI) standard (20 ppb) – 05 13 10 jm	Place in a 100-ml volumetric flask: 0.2 ml of chromium (VI) intermediate standard A Dilute to mark with deionized water. Prepare fresh weekly or more often as needed
Chromium (VI) standard (10 ppb) – 05 13 10 jm **used for LOD & LOQ**	Place in a 100-ml volumetric flask: 0.1 ml of chromium (VI) intermediate standard A Dilute to mark with deionized water. Prepare fresh weekly or more often as needed
Chromium (VI) standard (5 ppb) – 05 13 10 jm **used for MDLS**	Perform a 2x dilution on the Chromium (VI) standard 10 ppb standard

Standards/QC Preparation for Chromium (VI) on Lachat

Sequence Filename: _____

COMPUCHEM a Division of Liberty Analytical Corporation WORKSHEET 1 XXX 1

REAGENT/STANDARD LOT NUMBER**	PREPARATION INSTRUCTIONS
Chromium (VI) ICV Solution (250 ppb) – 05 13 10 jm	Place in a 100-ml volumetric flask: 2.5 ml of 2ND Source Hexavalent Chromium solution (1000mg/L)Dilute to mark with deionized water. Prepare fresh weekly or more often as needed

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log
**Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standard Solutions Prepared and Entered By: _____ Date: 5-13-10

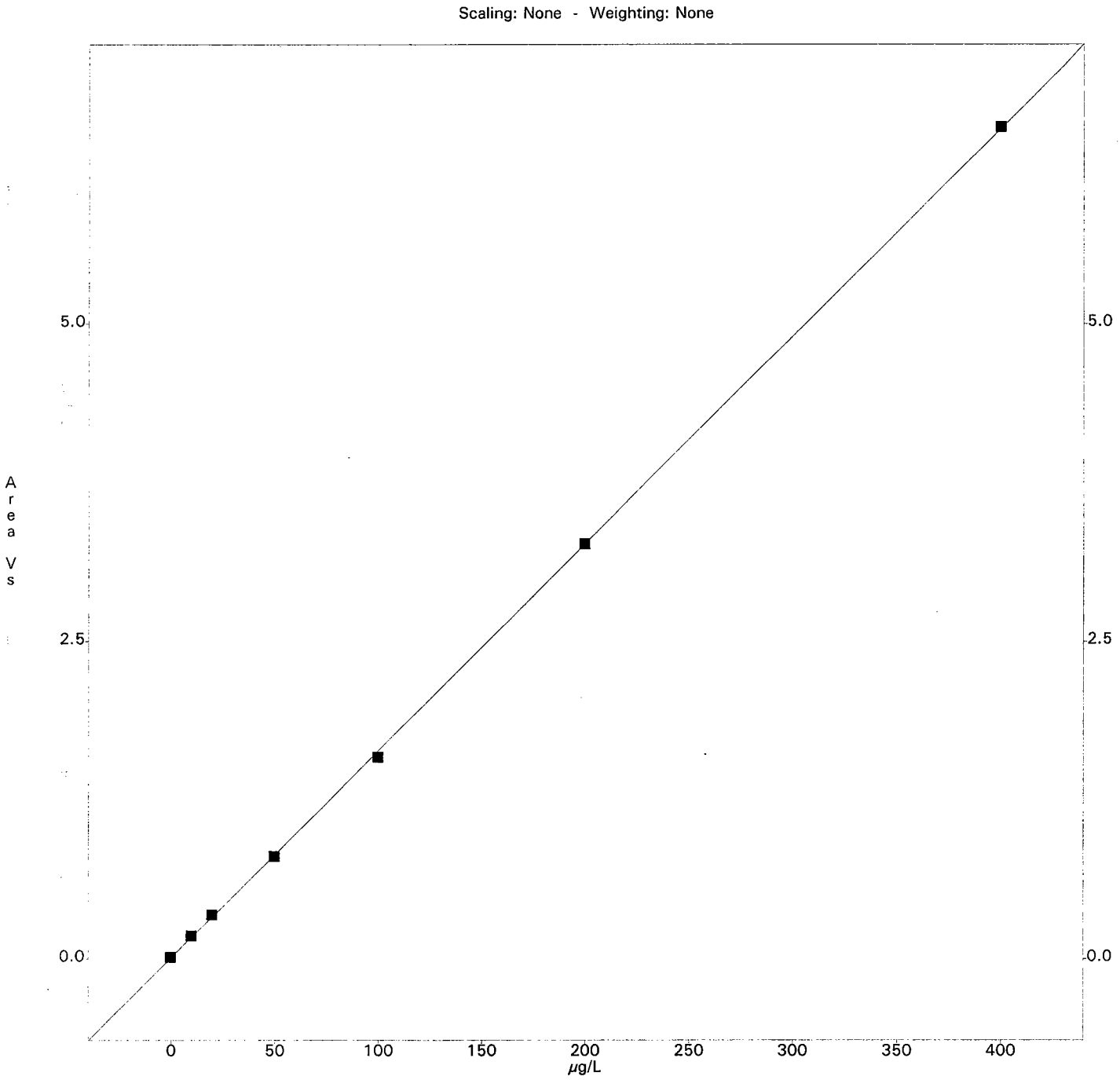
Reviewed By: _____ Date: 5-18-10

8/25/08:vr

Hexavalent Chromium

Lvl	Area	µg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	6549402	400	6549402					0.0	0.0	-0.2
2	3268890	200	3268890					0.0	0.0	0.1
3	1592398	100	1592398					0.0	0.0	2.9
4	815812	50	815812					0.0	0.0	1.0
5	352195	20	352195					0.0	0.0	-5.5
6	187940	10	187940					0.0	0.0	-10.4
7	18677	0	18677					0.0	0.0	

1st Order Poly
Conc = 6.126e-005 Area - 4.702e-001
r = 1.0000

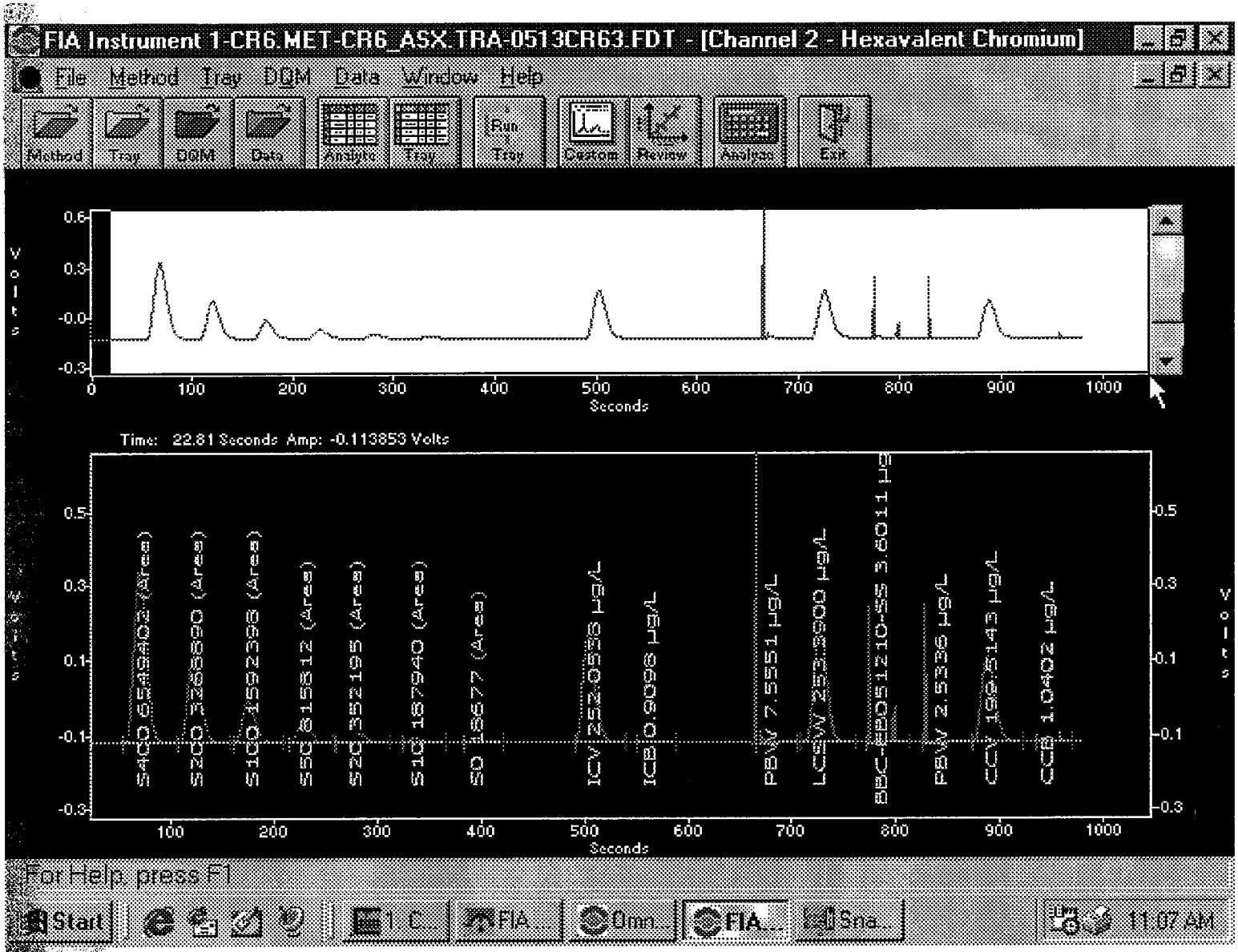


Printed: Thursday, May 13, 2010 - 11:03 AM

INSTRUMENT: C2
TRAY: CR6_ASX.TRA METHOD: CR6.MET DATAFILE: 0513CR63.FDT
DATE/TIME: Thu May 13 10:37:56 2010 OPERATOR: Joe Mohn

*** Begin Calibration ***
Cup# 1 Sample: S400 Type: CalStd Level: 1 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 6549402.0 µv-s
Cup# 2 Sample: S200 Type: CalStd Level: 2 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 3268890.0 µv-s
Cup# 3 Sample: S100 Type: CalStd Level: 3 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 1592398.0 µv-s
Cup# 4 Sample: S50 Type: CalStd Level: 4 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 815812.0 µv-s
Cup# 5 Sample: S20 Type: CalStd Level: 5 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 352195.0 µv-s
Cup# 6 Sample: S10 Type: CalStd Level: 6 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 187940.0 µv-s
Cup# 7 Sample: S0 Type: CalStd Level: 7 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 18677.0 µv-s
*** Updated Calibration ***
Ch 2: Hexavalent Chromium
** 1st Order Poly Calibration **
C[0] = 6.12649e-005
C[1] = -0.470157
r = 1.0000
*** End Calibration Block ***
*** Calibration Passed ***
***** Auto DQM Begin *****
*** Starting DQM Set INITIAL CAL ***
Cup# 13 Sample: ICV Type: RelChkStd Rep# 1/1
Ch 2: Hexavalent Chromium = 252.0538 µg/L
DQM Sample Results: ICV
Ch 2: Hexavalent Chromium = 252.0538 µg/L
Known Conc = 250.0000 ug/L - %Diff from Known = 0.8215%
Test 1: Passed
Cup# 14 Sample: ICB Type: Blank Rep# 1/1
Ch 2: Hexavalent Chromium = 0.9098 µg/L
DQM Sample Results: ICB
Ch 2: Hexavalent Chromium
Determined Conc = 0.9098 µg/L
Test 1: Passed
*** End of DQM Set INITIAL CAL - Set Passed ***
***** Auto DQM End *****
Cup# 1 Sample: PBW Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 7.5551 µg/L
Cup# 2 Sample: LCSW Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 253.3900 µg/L
Cup# 3 Sample: BBC-EB051210-SS Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 3.6011 µg/L
Cup# 1 Sample: PBW Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 2.5336 µg/L
***** Auto DQM Begin *****
*** Starting DQM Set CCV/CCB ***
Cup# 2 Sample: CCV Type: RelChkStd Rep# 1/1
Ch 2: Hexavalent Chromium = 199.5143 µg/L
DQM Sample Results: CCV
Ch 2: Hexavalent Chromium = 199.5143 µg/L
Known Conc = 200.0000 ug/L - %Diff from Known = -0.2428%
Test 1: Passed
Cup# 7 Sample: CCB Type: Blank Rep# 1/1
Ch 2: Hexavalent Chromium = 1.0402 µg/L
DQM Sample Results: CCB
Ch 2: Hexavalent Chromium
Determined Conc = 1.0402 µg/L
Test 1: Passed
*** End of DQM Set CCV/CCB - Set Passed ***
***** Auto DQM End *****

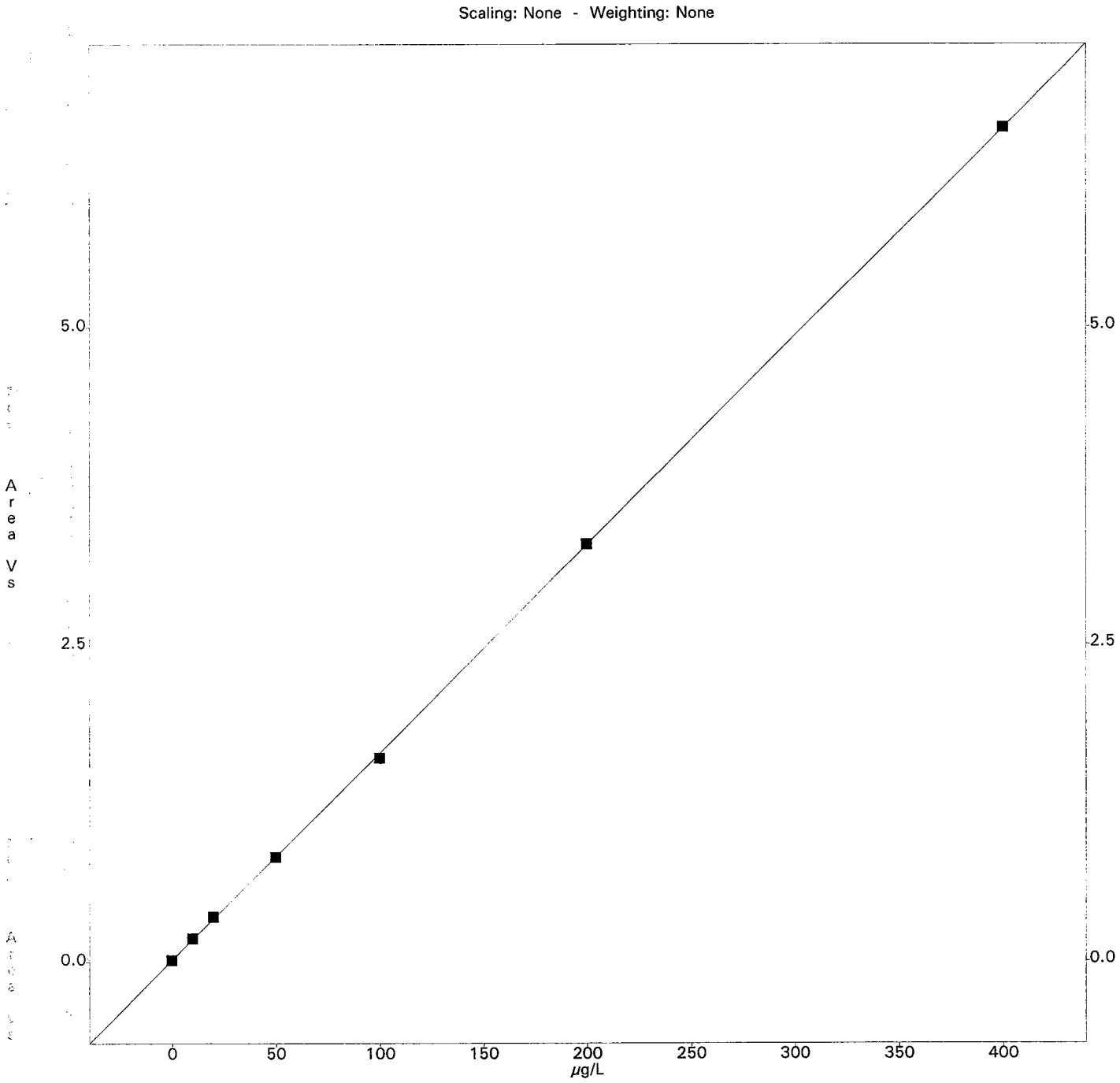
******* Tray Run Complete *******


FIA Instrument 1-CR6.MET-CR6_ASX.TRA-0513CR63.FDT - [Channel 2 - Hexavalent Chromium]
File Method Tray DQM Data Window Help
Method
Tray
DQM
Data
Analyte
Tray
Run Tray
Custom
Review
Analyze
Exit
Volts
Seconds
Time: 22.81 Seconds Amp: -0.113853 Volts
S40 654402 (Area)
S20 328880 (Area)
S10 155236 (Area)
S5 81512 (Area)
S2 35195 (Area)
S1 17940 (Area)
S0 1677 (Area)
ICV 252.0536 µg/L
ICB 0.9098 µg/L
PBW 7.551 µg/L
LCSW 253.5500 µg/L
BBC-EB051210-SS 3.6011 µg
PBW 2.5339 µg/L
CCV 100.5143 µg/L
CCB 1.0402 µg/L
For Help, press F1
Start
1 C...
FIA...
0mn...
FIA...
Sna...
11:07 AM

Hexavalent Chromium

Lvl	Area	µg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	6580932	400	6580932					0.0	0.0	-0.1
2	3298068	200	3298068					0.0	0.0	-0.1
3	1616661	100	1616661					0.0	0.0	2.4
4	832738	50	832738					0.0	0.0	0.4
5	361023	20	361023					0.0	0.0	-5.3
6	190458	10	190458					0.0	0.0	-6.5
7	19487	0	19487					0.0	0.0	

1st Order Poly
Conc = 6.099e-005 Area - 9.694e-001
r = 1.0000

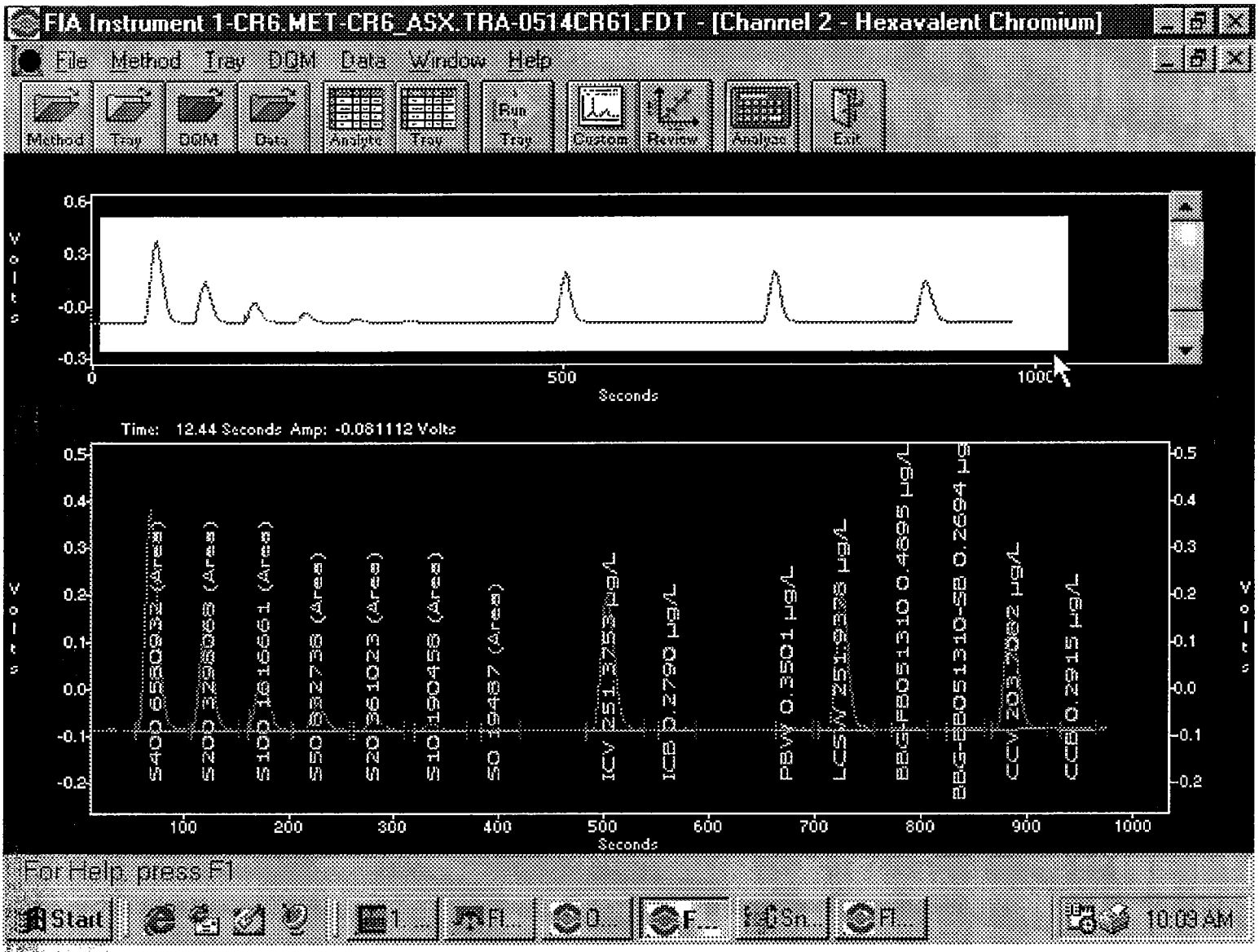


Printed: Friday, May 14, 2010 - 10:09 AM

INSTRUMENT: C2
TRAY: CR6_ASX.TRA METHOD: CR6.MET DATAFILE: 0514CR61.FDT
DATE/TIME: Fri May 14 09:52:27 2010 OPERATOR: Joe Mohn

*** Begin Calibration ***
Cup# 1 Sample: S400 Type: CalStd Level: 1 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 6580932.0 µv-s
Cup# 2 Sample: S200 Type: CalStd Level: 2 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 3298068.0 µv-s
Cup# 3 Sample: S100 Type: CalStd Level: 3 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 1616661.0 µv-s
Cup# 4 Sample: S50 Type: CalStd Level: 4 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 832738.0 µv-s
Cup# 5 Sample: S20 Type: CalStd Level: 5 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 361023.0 µv-s
Cup# 6 Sample: S10 Type: CalStd Level: 6 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 190458.0 µv-s
Cup# 7 Sample: S0 Type: CalStd Level: 7 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 19487.0 µv-s
*** Updated Calibration ***
Ch 2: Hexavalent Chromium
** 1st Order Poly Calibration **
C[0] = 6.09941e-005
C[1] = -0.969382
r = 1.0000
*** End Calibration Block ***
*** Calibration Passed ***
***** Auto DQM Begin *****
*** Starting DQM Set INITIAL CAL ***
Cup# 13 Sample: ICV Type: RelChkStd Rep# 1/1
Ch 2: Hexavalent Chromium = 251.3753 µg/L
DQM Sample Results: ICV
Ch 2: Hexavalent Chromium = 251.3753 µg/L
Known Conc = 250.0000 ug/L - %Diff from Known = 0.5501%
Test 1: Passed
Cup# 14 Sample: ICB Type: Blank Rep# 1/1
Ch 2: Hexavalent Chromium = 0.2790 µg/L
DQM Sample Results: ICB
Ch 2: Hexavalent Chromium
Determined Conc = 0.2790 µg/L
Test 1: Passed
*** End of DQM Set INITIAL CAL - Set Passed ***
***** Auto DQM End *****
Cup# 1 Sample: PBW Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 0.3501 µg/L
Cup# 2 Sample: LCSW Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 251.9378 µg/L
Cup# 3 Sample: BBG-FB051310 Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 0.4895 µg/L
Cup# 4 Sample: BBG-EB051310-SB Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 0.2694 µg/L
***** Auto DQM Begin *****
*** Starting DQM Set CCV/CCB ***
Cup# 2 Sample: CCV Type: RelChkStd Rep# 1/1
Ch 2: Hexavalent Chromium = 203.7082 µg/L
DQM Sample Results: CCV
Ch 2: Hexavalent Chromium = 203.7082 µg/L
Known Conc = 200.0000 ug/L - %Diff from Known = 1.8541%
Test 1: Passed
Cup# 7 Sample: CCB Type: Blank Rep# 1/1
Ch 2: Hexavalent Chromium = 0.2915 µg/L
DQM Sample Results: CCB
Ch 2: Hexavalent Chromium
Determined Conc = 0.2915 µg/L
Test 1: Passed
*** End of DQM Set CCV/CCB - Set Passed ***
***** Auto DQM End *****

******* Tray Run Complete *******

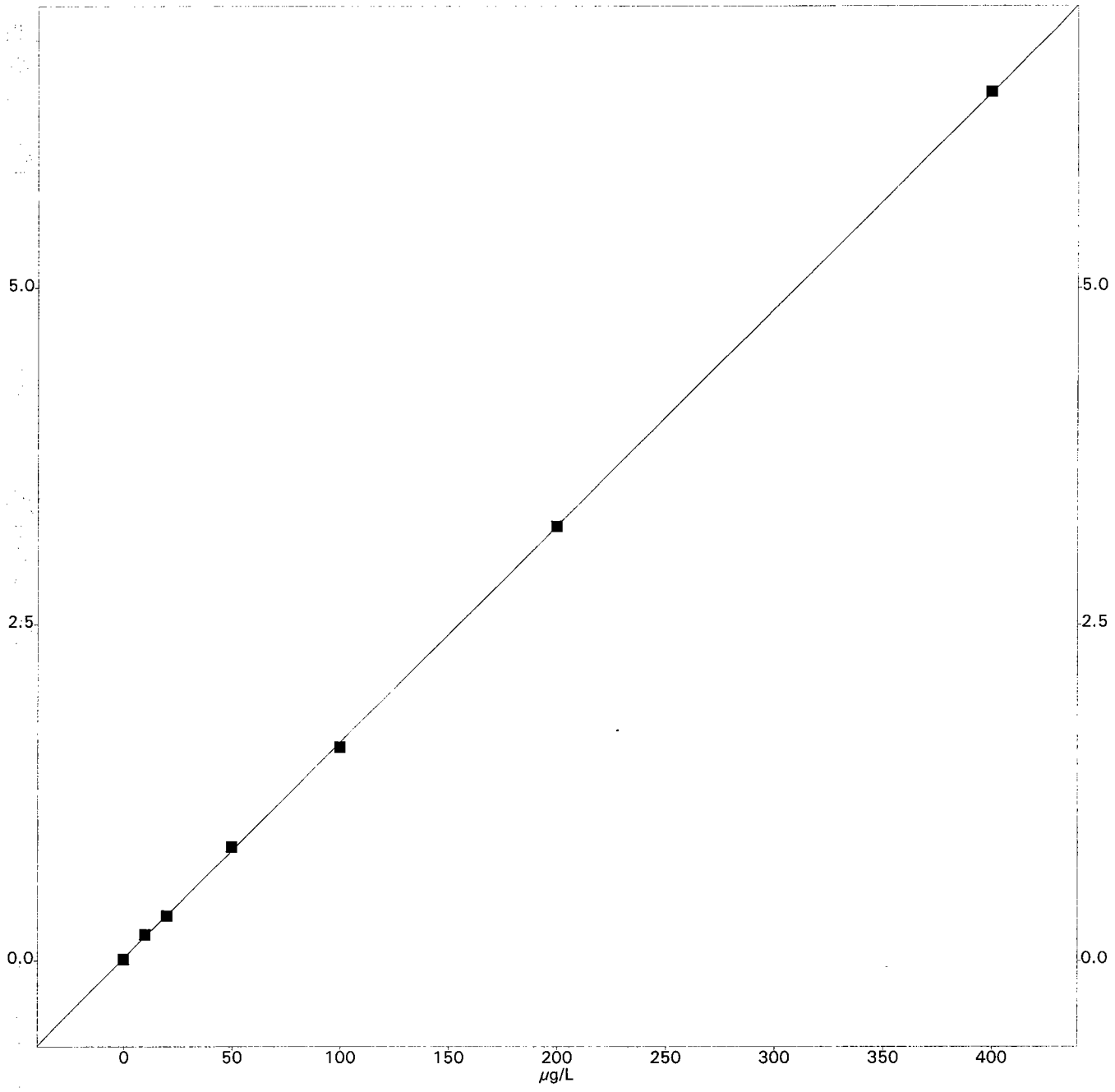

FIA Instrument 1-CR6.MET-CR6_ASX.TRA-0514CR61.FDT - [Channel 2 - Hexavalent Chromium]
File Method Tray DQM Data Window Help
Method Tray DQM Data Analyte Tray Run Tray Custom Review Analysis Exit
Volts
Seconds
Time: 12.44 Seconds Amp: -0.081112 Volts
S40 6509.32 (Area)
S200 329305 (Area)
S100 1616661 (Area)
S50 832738 (Area)
S20 361023 (Area)
S10 190456 (Area)
S0 19487 (Area)
ICV 251.2753 µg/L
ICB 0.2760 µg/L
PBW 0.3501 µg/L
LCSW 251.9328 µg/L
BBS-FB051310 0.4895 µg/L
BBS-BB051310-SB 0.2694 µg
CCV 203.2082 µg/L
CCB 0.2915 µg/L
For Help, press F1
Start
10:09 AM

Hexavalent Chromium

Lvl	Area	µg/L	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Replic STD	Replic % RSD	Residual 1st Poly
1	6455723	400	6455723					0.0	0.0	-0.1
2	3230253	200	3230253					0.0	0.0	0.1
3	1592317	100	1592317					0.0	0.0	2.2
4	851984	50	851984					0.0	0.0	-3.6
5	338902	20	338902					0.0	0.0	0.7
6	195201	10	195201					0.0	0.0	-9.1
7	11298	0	11298					0.0	0.0	

1st Order Poly
Conc = 6.221e-005 Area - 1.231e+000
r = 1.0000

Scaling: None - Weighting: None

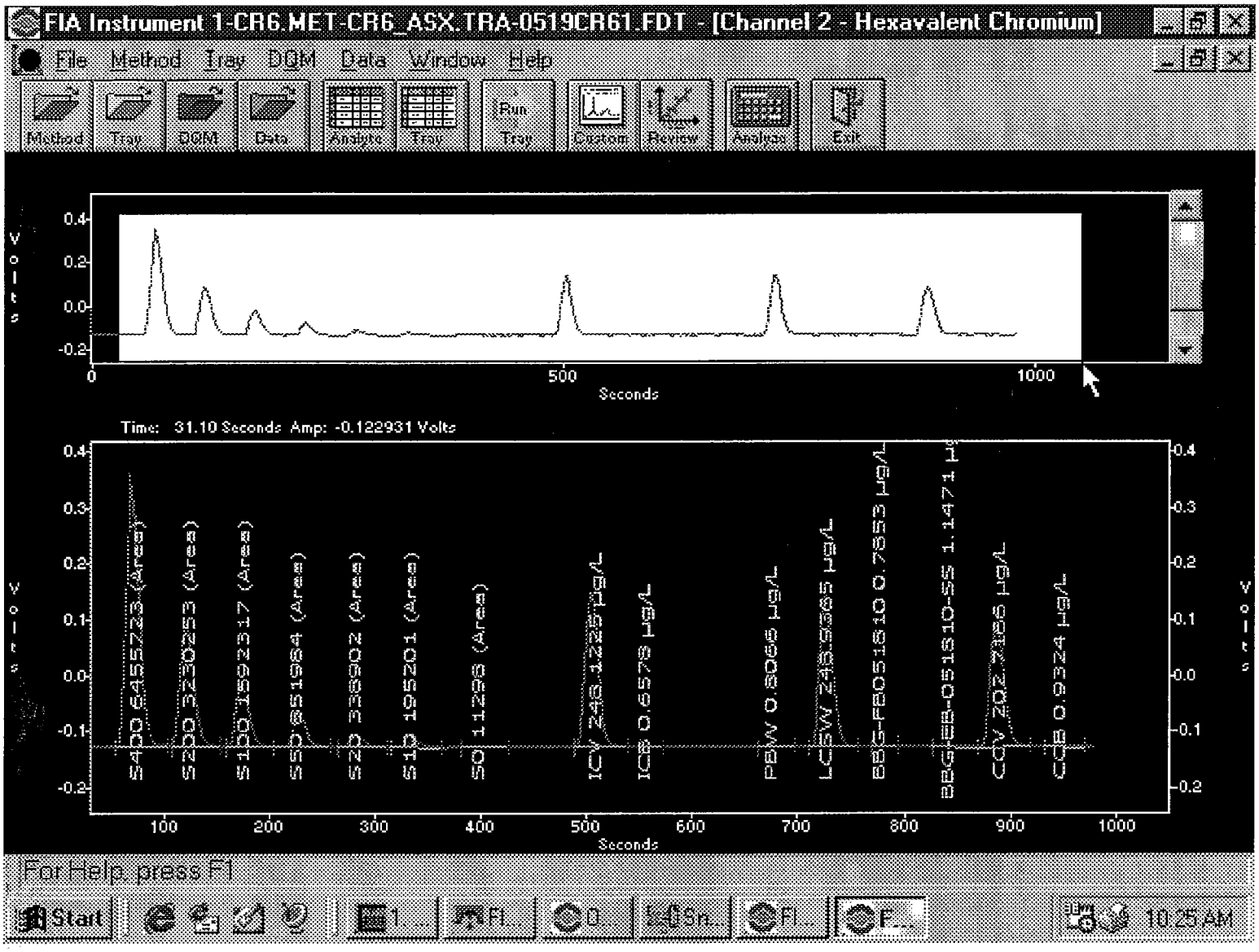


Printed: Wednesday, May 19, 2010 - 10:24 AM

INSTRUMENT: C2
TRAY: CR6_ASX.TRA METHOD: CR6.MET DATAFILE: 0519CR61.FDT
DATE/TIME: Wed May 19 10:08:02 2010 OPERATOR: Joe Mohn

*** Begin Calibration ***
Cup# 1 Sample: S400 Type: CalStd Level: 1 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 6455723.0 µv-s
Cup# 2 Sample: S200 Type: CalStd Level: 2 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 3230253.0 µv-s
Cup# 3 Sample: S100 Type: CalStd Level: 3 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 1592317.0 µv-s
Cup# 4 Sample: S50 Type: CalStd Level: 4 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 851984.0 µv-s
Cup# 5 Sample: S20 Type: CalStd Level: 5 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 338902.0 µv-s
Cup# 6 Sample: S10 Type: CalStd Level: 6 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 195201.0 µv-s
Cup# 7 Sample: S0 Type: CalStd Level: 7 Rep# 1/1
Ch 2: Hexavalent Chromium Peak Area = 11298.0 µv-s
*** Updated Calibration ***
Ch 2: Hexavalent Chromium
** 1st Order Poly Calibration **
C[0] = 6.22149e-005
C[1] = -1.23086
r = 1.0000
*** End Calibration Block ***
*** Calibration Passed ***
***** Auto DQM Begin *****
*** Starting DQM Set INITIAL CAL ***
Cup# 13 Sample: ICV Type: RelChkStd Rep# 1/1
Ch 2: Hexavalent Chromium = 248.1225 µg/L
DQM Sample Results: ICV
Ch 2: Hexavalent Chromium = 248.1225 µg/L
Known Conc = 250.0000 ug/L - %Diff from Known = -0.7510%
Test 1: Passed
Cup# 14 Sample: ICB Type: Blank Rep# 1/1
Ch 2: Hexavalent Chromium = 0.6578 µg/L
DQM Sample Results: ICB
Ch 2: Hexavalent Chromium
Determined Conc = 0.6578 µg/L
Test 1: Passed
*** End of DQM Set INITIAL CAL - Set Passed ***
***** Auto DQM End *****
Cup# 1 Sample: PBW Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 0.8066 µg/L
Cup# 2 Sample: LCSW Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 248.9365 µg/L
Cup# 3 Sample: BBG-FB051810 Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 0.7853 µg/L
Cup# 4 Sample: BBG-EB-051810-SS Type: Unknown Rep# 1/1
Ch 2: Hexavalent Chromium = 1.1471 µg/L
***** Auto DQM Begin *****
*** Starting DQM Set CCV/CCB ***
Cup# 2 Sample: CCV Type: RelChkStd Rep# 1/1
Ch 2: Hexavalent Chromium = 202.7166 µg/L
DQM Sample Results: CCV
Ch 2: Hexavalent Chromium = 202.7166 µg/L
Known Conc = 200.0000 ug/L - %Diff from Known = 1.3583%
Test 1: Passed
Cup# 7 Sample: CCB Type: Blank Rep# 1/1
Ch 2: Hexavalent Chromium = 0.9324 µg/L
DQM Sample Results: CCB
Ch 2: Hexavalent Chromium
Determined Conc = 0.9324 µg/L
Test 1: Passed
*** End of DQM Set CCV/CCB - Set Passed ***
***** Auto DQM End *****

******* Tray Run Complete *******


FIA Instrument 1-CR6.MET-CR6_ASX.TRA-0519CR61.FDT - [Channel 2 - Hexavalent Chromium]
File Method Tray DQM Data Window Help
Method Tray DQM Data Analyte Tray Run Tray Custom Review Analytes Exit
Volts
Seconds
Time: 31.10 Seconds Amp: -0.122931 Volts
S40 0.645523 (Area)
S200 3.230253 (Area)
S100 1.592317 (Area)
S50 0.851984 (Area)
S20 0.339902 (Area)
S10 0.195201 (Area)
S0 0.11298 (Area)
ICV 248.1225 µg/L
ICB 0.6578 µg/L
PBW 0.8066 µg/L
LCSW 248.9365 µg/L
BBG-FB051810 0.7853 µg/L
BBG-EB-051810-SS 1.1471 µg/L
CCV 202.3186 µg/L
CCB 0.9324 µg/L
For Help, press F1
Start
10:25 AM

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB051210-SS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-01

Level (low/med): LOW Date Received: 5/13/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	3.5	B		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	428	B		P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	14.0	B		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.37	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.7			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
EB051310-SB

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-02

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	2.5	B		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	407	B		P
7440-47-3	Chromium	0.91	B		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	0.24	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-FB051310

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-03

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	10.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	374	B		P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
BBG-FB051810

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-04

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	10.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	372	B		P
7440-47-3	Chromium	1.0	B		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EB051810-SS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005131

Matrix (soil/water): WATER Lab Sample ID: 1005131-05

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	200	U		P
7440-36-0	Antimony	10.0	U		P
7440-38-2	Arsenic	10.0	U		P
7440-39-3	Barium	200	U		P
7440-41-7	Beryllium	5.0	U		P
7440-43-9	Cadmium	5.0	U		P
7440-70-2	Calcium	371	B		P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	2.8	B		P
7439-89-6	Iron	100	U		P
7439-92-1	Lead	3.0	U		P
7439-95-4	Magnesium	5000	U		P
7439-96-5	Manganese	10.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.0	U		P
7440-09-7	Potassium	5000	U		P
7782-49-2	Selenium	5.0	U		P
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	5000	U		P
7440-28-0	Thallium	10.0	U		P
7440-62-2	Vanadium	20.0	U		P
7440-66-6	Zinc	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

24770

33

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax: 919-379-4040

2.0-2

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, Ste 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDN

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or N
Are high concentrations expected? Y or N? If yes, which ID(s)?

Requested Analysis and Container Information

Matrices: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Container Number	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	PAH's (8270C) (Share (1-8oz) 2-HD)	TCL Pest. (8081A) (2-HD)	Total Metals (6010B) (1-500ml)	Total Chromium (6010B)	Chromium VI (7196A) (1-125ml)	Grain Size (1-8oz.)		Gran size			Comments
1005131-01	BBG-EB051210-SS	5-12-10	1030	EB	6			1				X	X	X	X	X						<2
1005130-12	BBG-SB48-7-8-10B	5-12-10	1130	SO	3							X	X		X	X	X		1005209-02			
-13	BBG-SS48-0-1-10B	5-12-10	1100	SO	3							X	X		X	X	X				-03	
1005129-12	BBG-SS52-0-1-10B	5-11-10	1515	SO	3							X	X	X		X	X				-04	
-13	BBG-SS51-0-1-10B	5-12-10	1205	SO	3							X	X	X		X	X				-05	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Sample Shipment

Relinquished by:	Date/Time: 5-12-10 / 1300	Received by: K. Manning	Date/Time: 5/13/10 0900
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Gran size to GT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 2.3 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0015

24773

34

Residual Chlorine Present? Yes ____ No ✓

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St, 101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time:
Project Contact: Rebekka Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: S Forker / RDH	Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	6010B 500 mL	7196A 125 mL	8081A 2AL	8270C 2AL							Matrix
1005131-02	BBG-EB051310-SB	5-13-10	1200	QC-W	6			1				X	X	X	X							<2
-03	BBG-FB051310	5-13-10	1220	QC-W	6			1				X	X	X	X							<2

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments:

Sample Custody

Relinquished by: S Forker	Date/Time: 5-13-10/ 1330	Received by: Diane Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where? | Custody Seal(s) intact? (Y) or N | On Ice (Y) or N | Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.
501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page 1 of 1

Courier:
Airbill No.:
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: Va Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogus

Project Information

Project Name: CTO-94
Sampling Location: MCB CAMP LEJEUNE
Turnaround time: PER Contract
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Analytical Method/Container Preservative

CompuChem Lab Use	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	Tot Metals 6010B (1-500ml)	Tot Chromium 6010B	Chromium VI 7196A (1-125ml)	SVOA PAH 8270C (2-4L)	TCL PEST 8081A (2-4L)	GRAIN SIZE ASTM D422					Total # of Containers
100513I-04	BBG-FB051810	5.18	1200	RI	6			1				X		X	X	X						<2
↓ 05	BBG-EB051810-SS	5.18	1205	RI	6			1				X		X	X	X						<2

Residual Chlorine Present?
Yes ____ No ✓

Matrix Codes
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Comments

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by:	Date/Time: 5-18-10 1420	Received by: K. Manning	Date/Time: 5.19.10 0905
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? Y or (N) If yes, where?
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer SN0010

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-01	EB051210-SS	05/12/2010	05/13/2010	06/01/2010	BBG-EB051210-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-01	EB051210-SS	05/12/2010	05/13/2010	06/08/2010	BBG-EB051210-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-02	EB051310-SB	05/13/2010	05/14/2010	06/01/2010	BBG-EB051310-SB
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-02	EB051310-SB	05/13/2010	05/14/2010	06/08/2010	BBG-EB051310-SB
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-03	BBG-FB051310	05/13/2010	05/14/2010	06/01/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-03	BBG-FB051310	05/13/2010	05/14/2010	06/08/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-04	BBG-FB051810	05/18/2010	05/19/2010	06/01/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-04	BBG-FB051810	05/18/2010	05/19/2010	06/08/2010	
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-05	EB051810-SS	05/18/2010	05/19/2010	06/01/2010	BBG-EB051810-SS
1005131	CTO-094 MCB CAMP LEJEUNE/39530	1005131-05	EB051810-SS	05/18/2010	05/19/2010	06/08/2010	BBG-EB051810-SS

WORK ORDER

1005131

Printed: 6/8/2010 10:11:58AM

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005131** **CASE:**	**Status:**	**[Group]**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/08/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/19/2010 09:05

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 21:57

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

P:DOD CRITERIA*LCS/LCSD*NOTE SAMPLING DATE*SIM 8270C=PAH.SUB*PEST 8081A* TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & ED

Analysis	Due	TAT	Expires	Received	Comments
1005131-01 EB051210-SS [Water] Sampled 05/12/2010 10:30 Eastern				**EQUIP.BLK**	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/08/2010 10:30	05/13/2010 09:30	
6010B METALS TAL	06/08/2010 16:00	20	11/08/2010 10:30	05/13/2010 09:30	
GC-8081A/PEST	06/08/2010 16:00	20	05/19/2010 10:30	05/13/2010 09:30	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/19/2010 10:30	05/13/2010 09:30	SubList = SVsim- PAH
7470A/7471A Mercury	06/08/2010 16:00	20	06/09/2010 10:30	05/13/2010 09:30	
1005131-02 EB051310-SB [Water] Sampled 05/13/2010 12:00 Eastern				**EQUIP.BLK**	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/09/2010 12:00	05/14/2010 09:20	
6010B METALS TAL	06/08/2010 16:00	20	11/09/2010 12:00	05/14/2010 09:20	
GC-8081A/PEST	06/08/2010 16:00	20	05/20/2010 12:00	05/14/2010 09:20	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/10/2010 12:00	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/20/2010 12:00	05/14/2010 09:20	SubList = SVsim- PAH
1005131-03 BBG-FB051310 [Water] Sampled 05/13/2010 12:20 Eastern				**FIELD BLK**	
GC-8081A/PEST	06/08/2010 16:00	20	05/20/2010 12:20	05/14/2010 09:20	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/09/2010 12:20	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/20/2010 12:20	05/14/2010 09:20	SubList = SVsim- PAH
6010B METALS TAL	06/08/2010 16:00	20	11/09/2010 12:20	05/14/2010 09:20	
7470A/7471A Mercury	06/08/2010 16:00	20	06/10/2010 12:20	05/14/2010 09:20	

1005131

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005131** **CASE:**	**Status:**	**Batched**

Analysis	Due	TAT	Expires		Comments
1005131-04 BBG-FB051810 [Water] Sampled 05/18/2010 12:00 Eastern					**FIELD BLK**
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/25/2010 12:00	05/19/2010 09:05	SubList = SVsim- PAH
GC-8081A/PEST	06/08/2010 16:00	20	05/25/2010 12:00	05/19/2010 09:05	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/15/2010 12:00	05/19/2010 09:05	
6010B METALS TAL	06/08/2010 16:00	20	11/14/2010 12:00	05/19/2010 09:05	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/14/2010 12:00	05/19/2010 09:05	
1005131-05 EB051810-SS [Water] Sampled 05/18/2010 12:05 Eastern					**EQUIP. BLK**
GC-8081A/PEST	06/08/2010 16:00	20	05/25/2010 12:05	05/19/2010 09:05	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/08/2010 16:00	20	06/15/2010 12:05	05/19/2010 09:05	
6010B METALS TAL	06/08/2010 16:00	20	11/14/2010 12:05	05/19/2010 09:05	
TRIVALENT CHROMIUM Cr3 7196A	06/08/2010 16:00	20	11/14/2010 12:05	05/19/2010 09:05	
SVOC 8270C SIM PAH	06/08/2010 16:00	20	05/25/2010 12:05	05/19/2010 09:05	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

CompuChem

A Division Of

Liberty Analytical Corp.

6/24/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S, WorkOrder: 1005132

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Joan Purdee

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005132

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005132

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005132-01	SB85-1.5-2.5	Soil	05/13/2010 07:45	05/14/2010 09:20
1005132-02	SB78-3.5-4.5	Soil	05/13/2010 10:40	05/14/2010 09:20
1005132-03	SS77-0-1	Soil	05/13/2010 12:05	05/14/2010 16:00
1005132-04	SB77-3.5-4.5	Soil	05/13/2010 12:10	05/14/2010 16:00
1005132-05	SS79-0-1	Soil	05/13/2010 15:10	05/14/2010 16:00
1005132-06	SB79-11-12	Soil	05/13/2010 15:30	05/14/2010 16:00
1005132-07	SS83-0-1	Soil	05/13/2010 15:55	05/14/2010 16:00
1005132-08	SB83-6.5-7.5	Soil	05/13/2010 16:05	05/14/2010 16:00
1005132-09	SS62-0-1	Soil	05/13/2010 16:40	05/14/2010 16:00
1005132-10	SS74-0-1	Soil	05/14/2010 10:15	05/14/2010 16:00
1005132-11	SS86-0-1	Soil	05/14/2010 11:05	05/14/2010 16:00
1005132-12	SB86-3-4	Soil	05/14/2010 11:15	05/14/2010 16:00
1005132-13	SS84-0-1	Soil	05/14/2010 08:55	05/14/2010 16:00
1005132-14	SB84-6-7	Soil	05/14/2010 09:05	05/14/2010 16:00
1005132-15	SS81-0-1	Soil	05/18/2010 16:00	05/21/2010 16:00
1005132-16	SB81-5-6	Soil	05/18/2010 16:20	05/21/2010 16:00
1005132-17	SS71-0-1	Soil	05/19/2010 07:35	05/21/2010 16:00
1005132-18	SS71D-0-1	Soil	05/19/2010 07:40	05/21/2010 16:00
1005132-19	SB71-4-5	Soil	05/19/2010 07:55	05/21/2010 16:00
1005132-20	SB71D-4-5	Soil	05/19/2010 08:00	05/21/2010 16:00

I. SAMPLE DATA PACKAGE

SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field and analytical samples, reanalyses, blanks, spikes, duplicates, and laboratory control samples. The sample data package consists of the following:

A. Cover Page

B. Sample Data

C. Chain-of-Custody (CoC) Documentation

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005132

A. Cover Page -

Inorganic Analyses Data Package

The Cover Page includes laboratory information, the Case and SDG numbers, the client ID numbers in alphanumeric order showing the client ID numbers cross-referenced with Lab ID numbers, comments, and completion of the statement on the use of ICP background and interelement correction for the samples.

On separate pages, the laboratory will include any problems encountered; both technical and administrative, the corrective action taken, and the resolution. This information is included in the Inorganic Case Summary Narrative which follows the Cover Page.

SW846 - METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005132

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
SB71-4-5	1005132-19
SB71D-4-5	1005132-20
SB77-3.5-4.5	1005132-04
SB78-3.5-4.5	1005132-02
SB79-11-12	1005132-06
SB81-5-6	1005132-16
SB83-6.5-7.5	1005132-08
SB84-6-7	1005132-14
SB85-1.5-2.5	1005132-01
SB85-1.5-2.5D	0052619-DUP1
SB85-1.5-2.5D	0052620-DUP1
SB85-1.5-2.5S	0052619-MS1
SB85-1.5-2.5S	0052620-MS1
SB85-1.5-2.5SD	0052619-MSD1
SB85-1.5-2.5SD	0052620-MSD1
SB86-3-4	1005132-12
SS62-0-1	1005132-09
SS71-0-1	1005132-17
SS71D-0-1	1005132-18
SS74-0-1	1005132-10
SS77-0-1	1005132-03
SS79-0-1	1005132-05
SS81-0-1	1005132-15
SS83-0-1	1005132-07
SS84-0-1	1005132-13

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Susan W Bass

Date: 6-14-10 Title: Senior Chemist

SW846 - METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005132

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
SS86-0-1	1005132-11

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: _____

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: for Susan Bass Name: Susan W Bass

Date: 6-14-10 Title: Senior Chemist

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE
SDG # 1005132

The indicated Sample Delivery Group (SDG) consisting of twenty (20) solid samples was received into the laboratory information management system (LIMS) on May 14 and 21, 2010 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 0.7 to 4.3°C. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were prepared and analyzed in accordance with SW846 methodology for the requested TAL metals and mercury.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV) and blanks (ICB & CCB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verification (PBS & LCSS) was found to be within acceptable ranges and field samples were prepared and analyzed within the specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spikes, CCN = 1005132-01 ID SB85-1.5-2.5S and SB85-1.5-2.5SD were inside control limits for the requested analytes except antimony and mercury.

The sample matrix duplicate, CCN = 1005132-01 ID SB85-1.5-2.5D was inside control limits for the requested analytes.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 1005132-01 ID SB85-1.5-2.5L was performed in accordance with requirements for ICP and mercury analysis.

The adjusted sample concentration was inside control limits for the requested analytes except magnesium.

Control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

Susan W. Bass
Senior Chemist
June 12, 2010

Organic Undecanted Dry Weight Worksheet

0051921

Procedure 143/190

T. WILLIAMS — Employee

1289 — ID No

Temp in: 104°

Temp out: 100°C

Date Assigned: 5-20-10

Date/Time in: 5-20-10 @ 1605

Date/Time out: 5-21-10 1625

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1005132-01	SB85-1.5-2.5	Sample	1.32	6.35	5.49
1005132-02	SB78-3.5-4.5	Sample	1.31	7.75	6.83
1005132-03	SS77-0-1	Sample	1.32	7.26	5.89
1005132-04	SB77-3.5-4.5	Sample	1.34	7.85	7.20
1005132-05	SS79-0-1	Sample	1.31	6.38	6.18
1005132-06	SB79-11-12	Sample	1.34	6.63	5.72
1005132-07	SS83-0-1	Sample	1.32	7.20	6.84
1005132-08	SB83-6.5-7.5	Sample	1.33	7.15	6.28
1005132-09	SS62-0-1	Sample	1.33	6.25	2.85
1005132-10	SS74-0-1	Sample	1.34	7.44	7.28
1005132-11	SS86-0-1	Sample	1.34	7.03	6.30
1005132-12	SB86-3-4	Sample	1.33	7.01	6.09
1005132-13	SS84-0-1	Sample	1.31	7.40	7.10
1005132-14	SB84-6-7	Sample	1.34	7.41	6.30
1005133-01	SS73-0-1	Sample	1.34	6.16	5.96
1005134-01	SS02-0-1	Sample	1.32	7.54	6.55
1005134-02	SS02D-0-1	Sample	1.32	7.03	6.33
1005134-03	SB02-5-6	Sample	1.34	6.83	5.72
1005134-04	SB02D-5-6	Sample	1.35	6.79	5.60
1005134-05	SB05-7-8	Sample	1.35	6.82	5.30

Entered into Element by: [signature] 5-24-10

Date

Organic Undecanted Dry Weight Worksheet

0052406

Procedure: -143/-190

T. WILLIAMS — Employee
1289 — ID No

Temp in: 105°
Temp out: 109°

Date Assigned: 5-24-10
Date/Time in: 5-24-10 @ 1636
Date/Time out: 5-24-10 @ 1095 (05)
TMW 5-25-10

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1005132-15	SS81-0-1	Sample	1.33	6.48	6.34
1005132-16	SB81-5-6	Sample	1.32	6.55	6.18
1005132-17	SS71-0-1	Sample	1.34	6.32	5.85
1005132-18	SS71D-0-1	Sample	1.33	6.46	6.02
1005132-19	SB71-4-5	Sample	1.33	7.18	6.00
1005132-20	SB71D-4-5	Sample	1.32	7.25	6.04

Entered into Element by: _____ 5-26-10 Date

CompuChem

A Division Of

Liberty Analytical Corp.

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Method Detection Limit (MDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).

N: This flag indicates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

The extensions: D, S, SD, L. A, added to the end of the client ID represent as follows:

D: matrix duplicate
S: matrix spike
SD: matrix spike duplicate
L: serial dilution
A: post digestion spike

Method Codes:

P: ICP PLASMA
CV: MERCURY COLD VAPOR AA
CA: MIDI-DISTILLATION SPECTROPHOTOMETRIC
MS: MASS SPECTROMETRY
AS: SEMI-AUTOMATED SPECTROPHOTOMETRIC

B. Sample Data

1. Results
2. Quality Control Data
3. Quarterly Verification of Instrument Performance
4. Raw Data
5. Digestion and Distillation Logs

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005132

1. Results

Sample results shall be arranged in packets with the Inorganic Analysis Data Sheet (Form I - IN). These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers, and shall include all the samples in the SDG.

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB71-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-19

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17000			P
7440-36-0	Antimony	1.6		N	P
7440-38-2	Arsenic	1.6			P
7440-39-3	Barium	37.1			P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.26	B		P
7440-70-2	Calcium	103	B		P
7440-47-3	Chromium	13.0			P
7440-48-4	Cobalt	0.80			P
7440-50-8	Copper	3.5			P
7439-89-6	Iron	2500			P
7439-92-1	Lead	9.2			P
7439-95-4	Magnesium	278	B	E	P
7439-96-5	Manganese	9.7			P
7439-97-6	Mercury	0.041	B	N	CV
7440-02-0	Nickel	8.9			P
7440-09-7	Potassium	523	B		P
7782-49-2	Selenium	0.60	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	74.9	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	13.7			P
7440-66-6	Zinc	8.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB71D-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-20

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22900			P
7440-36-0	Antimony	1.6		N	P
7440-38-2	Arsenic	1.1	B		P
7440-39-3	Barium	57.0			P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.39	B		P
7440-70-2	Calcium	111	B		P
7440-47-3	Chromium	17.4			P
7440-48-4	Cobalt	1.4			P
7440-50-8	Copper	4.2			P
7439-89-6	Iron	3060			P
7439-92-1	Lead	14.1			P
7439-95-4	Magnesium	403	B	E	P
7439-96-5	Manganese	12.6			P
7439-97-6	Mercury	0.082		N	CV
7440-02-0	Nickel	14.1			P
7440-09-7	Potassium	738			P
7782-49-2	Selenium	0.30	B		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	81.0	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	15.4			P
7440-66-6	Zinc	11.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB77-3.5-4.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-04

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4540			P
7440-36-0	Antimony	1.2		N	P
7440-38-2	Arsenic	0.59	B		P
7440-39-3	Barium	9.5	B		P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.16	B		P
7440-70-2	Calcium	484	B		P
7440-47-3	Chromium	5.7			P
7440-48-4	Cobalt	0.31	B		P
7440-50-8	Copper	1.4			P
7439-89-6	Iron	2180			P
7439-92-1	Lead	4.8			P
7439-95-4	Magnesium	168	B	E	P
7439-96-5	Manganese	9.1			P
7439-97-6	Mercury	0.093		N	CV
7440-02-0	Nickel	1.4			P
7440-09-7	Potassium	19.5	B		P
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.55	U		P
7440-23-5	Sodium	56.8	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	7.5			P
7440-66-6	Zinc	2.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB78-3.5-4.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-02

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15300			P
7440-36-0	Antimony	0.88	B	N	P
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	16.7	B		P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.47	B		P
7440-70-2	Calcium	145	B		P
7440-47-3	Chromium	21.6			P
7440-48-4	Cobalt	0.58	U		P
7440-50-8	Copper	1.3			P
7439-89-6	Iron	9760			P
7439-92-1	Lead	6.7			P
7439-95-4	Magnesium	599		E	P
7439-96-5	Manganese	10.5			P
7439-97-6	Mercury	0.055		N	CV
7440-02-0	Nickel	2.1			P
7440-09-7	Potassium	798			P
7782-49-2	Selenium	0.46	B		P
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	61.1	B		P
7440-28-0	Thallium	0.43	B		P
7440-62-2	Vanadium	27.3			P
7440-66-6	Zinc	6.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB79-11-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-06

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 82.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8390			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	2.1			P
7440-39-3	Barium	11.8	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.19	B		P
7440-70-2	Calcium	139	B		P
7440-47-3	Chromium	11.2			P
7440-48-4	Cobalt	0.35	B		P
7440-50-8	Copper	1.4			P
7439-89-6	Iron	2720			P
7439-92-1	Lead	4.2			P
7439-95-4	Magnesium	302	B	E	P
7439-96-5	Manganese	7.5			P
7439-97-6	Mercury	0.10		N	CV
7440-02-0	Nickel	1.5			P
7440-09-7	Potassium	591			P
7782-49-2	Selenium	0.59	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	59.8	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	20.6			P
7440-66-6	Zinc	4.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB81-5-6

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-16

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 92.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1400			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	2.5	B		P
7440-41-7	Beryllium	0.05	B		P
7440-43-9	Cadmium	0.07	B		P
7440-70-2	Calcium	80.8	B		P
7440-47-3	Chromium	2.5			P
7440-48-4	Cobalt	0.53	U		P
7440-50-8	Copper	0.28	B		P
7439-89-6	Iron	530			P
7439-92-1	Lead	2.0			P
7439-95-4	Magnesium	59.0	B	E	P
7439-96-5	Manganese	4.7			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	0.60			P
7440-09-7	Potassium	528	U		P
7782-49-2	Selenium	0.27	B		P
7440-22-4	Silver	0.06	B		P
7440-23-5	Sodium	45.4	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	1.4	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB83-6.5-7.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-08

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8680			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	8.0	B		P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.18	B		P
7440-70-2	Calcium	125	B		P
7440-47-3	Chromium	8.3			P
7440-48-4	Cobalt	0.47	B		P
7440-50-8	Copper	0.59			P
7439-89-6	Iron	1480			P
7439-92-1	Lead	3.4			P
7439-95-4	Magnesium	219	B	E	P
7439-96-5	Manganese	5.5			P
7439-97-6	Mercury	0.089		N	CV
7440-02-0	Nickel	1.7			P
7440-09-7	Potassium	248	B		P
7782-49-2	Selenium	0.41	B		P
7440-22-4	Silver	0.05	B		P
7440-23-5	Sodium	56.5	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	7.8			P
7440-66-6	Zinc	2.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB84-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-14

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8000			P
7440-36-0	Antimony	1.7		N	P
7440-38-2	Arsenic	1.1	B		P
7440-39-3	Barium	8.3	B		P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.15	B		P
7440-70-2	Calcium	674			P
7440-47-3	Chromium	10.4			P
7440-48-4	Cobalt	0.31	B		P
7440-50-8	Copper	1.1			P
7439-89-6	Iron	2320			P
7439-92-1	Lead	5.1			P
7439-95-4	Magnesium	201	B	E	P
7439-96-5	Manganese	7.0			P
7439-97-6	Mercury	0.013	B	N	CV
7440-02-0	Nickel	1.6			P
7440-09-7	Potassium	372	B		P
7782-49-2	Selenium	0.61	U		P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	66.8	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	10.5			P
7440-66-6	Zinc	2.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB85-1.5-2.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-01

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6090			P
7440-36-0	Antimony	1.5		N	P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	6.0	B		P
7440-41-7	Beryllium	0.12	B		P
7440-43-9	Cadmium	0.10	B		P
7440-70-2	Calcium	72.9	B		P
7440-47-3	Chromium	6.1			P
7440-48-4	Cobalt	0.38	B		P
7440-50-8	Copper	0.92			P
7439-89-6	Iron	880			P
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium	142	B	E	P
7439-96-5	Manganese	7.6			P
7439-97-6	Mercury	0.049		N	CV
7440-02-0	Nickel	0.93			P
7440-09-7	Potassium	157	B		P
7782-49-2	Selenium	0.38	B		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	53.3	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	6.7			P
7440-66-6	Zinc	2.0	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB86-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-12

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9230			P
7440-36-0	Antimony	0.79	B	N	P
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	9.6	B		P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.61			P
7440-70-2	Calcium	684			P
7440-47-3	Chromium	12.9			P
7440-48-4	Cobalt	0.58	U		P
7440-50-8	Copper	5.0			P
7439-89-6	Iron	15700			P
7439-92-1	Lead	5.6			P
7439-95-4	Magnesium	363	B	E	P
7439-96-5	Manganese	7.8			P
7439-97-6	Mercury	0.013	B	N	CV
7440-02-0	Nickel	1.6			P
7440-09-7	Potassium	326	B		P
7782-49-2	Selenium	0.44	B		P
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	61.4	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	3.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS62-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-09

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 30.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9480			P
7440-36-0	Antimony	3.7		N	P
7440-38-2	Arsenic	2.4	B		P
7440-39-3	Barium	30.3	B		P
7440-41-7	Beryllium	0.49	B		P
7440-43-9	Cadmium	0.22	B		P
7440-70-2	Calcium	477	B		P
7440-47-3	Chromium	8.3			P
7440-48-4	Cobalt	1.6	U		P
7440-50-8	Copper	15.5			P
7439-89-6	Iron	533			P
7439-92-1	Lead	22.3			P
7439-95-4	Magnesium	220	B	E	P
7439-96-5	Manganese	6.1			P
7439-97-6	Mercury	0.46		N	CV
7440-02-0	Nickel	2.0			P
7440-09-7	Potassium	116	B		P
7782-49-2	Selenium	4.1			P
7440-22-4	Silver	0.24	B		P
7440-23-5	Sodium	231	B		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	11.2			P
7440-66-6	Zinc	5.8	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS71-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-17

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12300			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	0.67	B		P
7440-39-3	Barium	14.4	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	0.26	B		P
7440-70-2	Calcium	577			P
7440-47-3	Chromium	11.7			P
7440-48-4	Cobalt	0.45	B		P
7440-50-8	Copper	1.6			P
7439-89-6	Iron	4040			P
7439-92-1	Lead	8.8			P
7439-95-4	Magnesium	405	B	E	P
7439-96-5	Manganese	9.9			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	1.9			P
7440-09-7	Potassium	207	B		P
7782-49-2	Selenium	0.28	B		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	67.2	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	14.4			P
7440-66-6	Zinc	5.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS71D-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-18

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 91.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12100			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	0.78	B		P
7440-39-3	Barium	14.1	B		P
7440-41-7	Beryllium	0.08	B		P
7440-43-9	Cadmium	0.27	B		P
7440-70-2	Calcium	811			P
7440-47-3	Chromium	11.4			P
7440-48-4	Cobalt	0.39	B		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	4050			P
7439-92-1	Lead	8.4			P
7439-95-4	Magnesium	395	B	E	P
7439-96-5	Manganese	9.3			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	2.1			P
7440-09-7	Potassium	191	B		P
7782-49-2	Selenium	0.45	B		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	78.0	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	14.7			P
7440-66-6	Zinc	4.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS74-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-10

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 97.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2690			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	8.4	B		P
7440-41-7	Beryllium	0.08	B		P
7440-43-9	Cadmium	0.09	B		P
7440-70-2	Calcium	117	B		P
7440-47-3	Chromium	2.9			P
7440-48-4	Cobalt	0.27	B		P
7440-50-8	Copper	1.7			P
7439-89-6	Iron	1010			P
7439-92-1	Lead	3.6			P
7439-95-4	Magnesium	85.2	B	E	P
7439-96-5	Manganese	8.0			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	0.90			P
7440-09-7	Potassium	513	U		P
7782-49-2	Selenium	0.26	B		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	56.7	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	3.4			P
7440-66-6	Zinc	1.9	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS77-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-03

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 76.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4290			P
7440-36-0	Antimony	1.9		N	P
7440-38-2	Arsenic	1.3			P
7440-39-3	Barium	11.0	B		P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.18	B		P
7440-70-2	Calcium	650	B		P
7440-47-3	Chromium	4.7			P
7440-48-4	Cobalt	0.65	U		P
7440-50-8	Copper	2.0			P
7439-89-6	Iron	1940			P
7439-92-1	Lead	6.1			P
7439-95-4	Magnesium	153	B	E	P
7439-96-5	Manganese	16.2			P
7439-97-6	Mercury	0.071		N	CV
7440-02-0	Nickel	1.5			P
7440-09-7	Potassium	650	U		P
7782-49-2	Selenium	0.41	B		P
7440-22-4	Silver	0.65	U		P
7440-23-5	Sodium	54.5	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	6.3			P
7440-66-6	Zinc	6.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS79-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-05

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 96.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1600			P
7440-36-0	Antimony	1.2		N	P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	5.3	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.07	B		P
7440-70-2	Calcium	170	B		P
7440-47-3	Chromium	2.2			P
7440-48-4	Cobalt	0.51	U		P
7440-50-8	Copper	1.4			P
7439-89-6	Iron	500			P
7439-92-1	Lead	3.4			P
7439-95-4	Magnesium	46.6	B	E	P
7439-96-5	Manganese	8.3			P
7439-97-6	Mercury	0.058		N	CV
7440-02-0	Nickel	0.68			P
7440-09-7	Potassium	505	U		P
7782-49-2	Selenium	0.51	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	47.9	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	2.5			P
7440-66-6	Zinc	3.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS81-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-15

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 97.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	221			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	0.98	U		P
7440-39-3	Barium	1.9	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	0.49	U		P
7440-70-2	Calcium	79.0	B		P
7440-47-3	Chromium	0.94	B		P
7440-48-4	Cobalt	0.49	U		P
7440-50-8	Copper	0.17	B		P
7439-89-6	Iron	235			P
7439-92-1	Lead	2.9			P
7439-95-4	Magnesium	14.2	B	E	P
7439-96-5	Manganese	7.6			P
7439-97-6	Mercury	0.034	U	N	CV
7440-02-0	Nickel	0.18	B		P
7440-09-7	Potassium	489	U		P
7782-49-2	Selenium	0.49	U		P
7440-22-4	Silver	0.04	B		P
7440-23-5	Sodium	43.3	B		P
7440-28-0	Thallium	0.98	U		P
7440-62-2	Vanadium	0.95	B		P
7440-66-6	Zinc	0.84	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS83-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-07

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3060			P
7440-36-0	Antimony	1.5		N	P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	6.9	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.07	B		P
7440-70-2	Calcium	1040			P
7440-47-3	Chromium	3.4			P
7440-48-4	Cobalt	0.52	U		P
7440-50-8	Copper	0.83			P
7439-89-6	Iron	922			P
7439-92-1	Lead	4.6			P
7439-95-4	Magnesium	84.3	B	E	P
7439-96-5	Manganese	5.8			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	0.93			P
7440-09-7	Potassium	517	U		P
7782-49-2	Selenium	0.48	B		P
7440-22-4	Silver	0.52	U		P
7440-23-5	Sodium	50.4	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	4.2			P
7440-66-6	Zinc	3.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS84-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-13

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3530			P
7440-36-0	Antimony	1.2		N	P
7440-38-2	Arsenic	0.66	B		P
7440-39-3	Barium	9.2	B		P
7440-41-7	Beryllium	0.08	B		P
7440-43-9	Cadmium	0.13	B		P
7440-70-2	Calcium	1170			P
7440-47-3	Chromium	4.0			P
7440-48-4	Cobalt	0.51	U		P
7440-50-8	Copper	0.65			P
7439-89-6	Iron	1900			P
7439-92-1	Lead	7.4			P
7439-95-4	Magnesium	111	B	E	P
7439-96-5	Manganese	6.3			P
7439-97-6	Mercury	0.013	B	N	CV
7440-02-0	Nickel	1.0			P
7440-09-7	Potassium	506	U		P
7782-49-2	Selenium	0.36	B		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	61.7	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	5.6			P
7440-66-6	Zinc	2.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS86-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-11

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11300			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	1.4			P
7440-39-3	Barium	12.5	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.45	B		P
7440-70-2	Calcium	5630			P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	0.56	U		P
7440-50-8	Copper	0.77			P
7439-89-6	Iron	8640			P
7439-92-1	Lead	8.3			P
7439-95-4	Magnesium	445	B	E	P
7439-96-5	Manganese	9.4			P
7439-97-6	Mercury	0.028	B	N	CV
7440-02-0	Nickel	1.7			P
7440-09-7	Potassium	185	B		P
7782-49-2	Selenium	0.99			P
7440-22-4	Silver	0.56	U		P
7440-23-5	Sodium	55.9	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	22.5			P
7440-66-6	Zinc	7.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

2. Quality Control Data

a. Initial and Continuing Calibration Verification
[Form II (Part 1) - IN]

b. CRDL Standard for AA (if applicable) and ICP
[Form II (Part 2) - IN]

c. Blanks
[Form III - IN]

d. ICP Interference Check Sample
[Form IV - IN]

e. Spike Sample Recovery
[Form V (Part 1) - IN]

f. Post Digest Spike Sample Recovery
[Form V (Part 2) - IN]

g. Duplicates
[Form VI - IN]

h. Laboratory Control Sample
[Form VII - IN]

i. Standard Addition Results (if applicable)
[Form VIII - IN]

j. ICP Serial Dilutions
[Form IX - IN]

k. Preparation Log
[Form XIII - IN]

l. Analysis Run Log
[Form XIV - IN]

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2521.0	2399.05	95	50000.0	47069.55	94	47058.65	94	P
Antimony	994.0	976.21	98	1000.0	990.91	99	996.29	100	P
Arsenic	999.0	996.37	100	1000.0	1016.26	102	1013.31	101	P
Barium	497.0	492.53	99	1000.0	968.79	97	978.61	98	P
Beryllium	495.0	501.80	101	1000.0	1027.90	103	1011.86	101	P
Cadmium	496.0	487.73	98	1000.0	979.52	98	972.65	97	P
Calcium	10026.0	9633.91	96	50000.0	49156.48	98	48076.82	96	P
Chromium	490.0	486.02	99	1000.0	994.57	99	967.83	97	P
Cobalt	499.0	501.80	101	1000.0	1002.53	100	994.51	99	P
Copper	492.0	496.48	101	1000.0	1000.79	100	994.04	99	P
Iron	5082.0	4936.16	97	25000.0	24796.97	99	24381.52	98	P
Lead	1002.0	970.98	97	1000.0	971.55	97	966.83	97	P
Magnesium	6074.0	5968.23	98	50000.0	50393.88	101	49845.90	100	P
Manganese	499.0	494.23	99	1000.0	1009.72	101	991.00	99	P
Mercury	4.0	3.97	99	5.0	5.35	107	5.48	110	CV
Nickel	503.0	490.01	97	1000.0	977.04	98	969.90	97	P
Potassium	10021.0	10715.09	107	50000.0	50325.86	101	51647.23	103	P
Selenium	1029.0	976.20	95	1000.0	989.29	99	988.00	99	P
Silver	501.0	499.34	100	100.0	102.43	102	100.75	101	P
Sodium	10097.0	9585.22	95	50000.0	49340.85	99	49670.02	99	P
Thallium	1028.0	1003.90	98	1000.0	978.39	98	976.88	98	P
Vanadium	501.0	498.77	100	1000.0	1007.06	101	987.90	99	P
Zinc	1025.0	950.96	93	1100.0	1067.19	97	1041.33	95	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	46873.67	94	46975.37	94	P
Antimony				1000.0	993.25	99	985.33	99	P
Arsenic				1000.0	1005.00	100	1005.69	101	P
Barium				1000.0	982.97	98	960.52	96	P
Beryllium				1000.0	996.35	100	998.09	100	P
Cadmium				1000.0	959.31	96	960.70	96	P
Calcium				50000.0	47090.00	94	47894.27	96	P
Chromium				1000.0	935.07	94	942.58	94	P
Cobalt				1000.0	970.76	97	982.95	98	P
Copper				1000.0	986.81	99	995.79	100	P
Iron				25000.0	23932.94	96	24089.39	96	P
Lead				1000.0	957.82	96	962.99	96	P
Magnesium				50000.0	49156.25	98	49492.39	99	P
Manganese				1000.0	960.25	96	966.56	97	P
Mercury				5.0	5.56	111	5.55	111	CV
Nickel				1000.0	959.96	96	962.13	96	P
Potassium				50000.0	51886.59	104	51401.16	103	P
Selenium				1000.0	993.64	99	983.37	98	P
Silver				100.0	99.76	100	101.37	101	P
Sodium				50000.0	49808.88	100	49923.75	100	P
Thallium				1000.0	972.43	97	973.93	97	P
Vanadium				1000.0	965.22	97	971.54	97	P
Zinc				1100.0	1021.91	93	1041.93	95	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	46191.39	92	47022.25	94	P
Antimony				1000.0	994.83	99	998.97	100	P
Arsenic				1000.0	1015.71	102	1007.99	101	P
Barium				1000.0	949.88	95	958.52	96	P
Beryllium				1000.0	1014.55	101	1001.10	100	P
Cadmium				1000.0	988.30	99	969.58	97	P
Calcium				50000.0	49084.48	98	48094.06	96	P
Chromium				1000.0	958.40	96	951.90	95	P
Cobalt				1000.0	999.91	100	983.41	98	P
Copper				1000.0	1020.08	102	1007.46	101	P
Iron				25000.0	24562.81	98	24235.66	97	P
Lead				1000.0	982.90	98	966.77	97	P
Magnesium				50000.0	49677.59	99	49798.39	100	P
Manganese				1000.0	979.80	98	975.70	98	P
Mercury				5.0	5.57	111	5.61	112	CV
Nickel				1000.0	982.89	98	968.44	97	P
Potassium				50000.0	49758.69	100	51278.90	103	P
Selenium				1000.0	986.15	99	989.80	99	P
Silver				100.0	106.07	106	103.00	103	P
Sodium				50000.0	49569.43	99	50226.95	100	P
Thallium				1000.0	981.69	98	976.18	98	P
Vanadium				1000.0	970.93	97	969.86	97	P
Zinc				1100.0	1087.66	99	1047.23	95	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Mercury				5.0	5.70	114	5.67	113	CV

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

AA CRDL Standard Source: HP0916320

ICP CRDL Standard Source: HP1004012

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum				200.0	207.89	103.9		
Antimony				10.0	11.24	112.4		
Arsenic				10.0	13.92	139.2		
Barium				200.0	185.16	92.6		
Beryllium				5.0	5.24	104.8		
Cadmium				5.0	4.81	96.2		
Calcium				5000.0	4769.83	95.4		
Chromium				10.0	9.75	97.5		
Cobalt				5.0	5.57	111.4		
Copper				5.0	4.84	96.8		
Iron				100.0	76.00	76.0		
Lead				3.0	3.49	116.3		
Magnesium				5000.0	4748.92	95.0		
Manganese				10.0	9.57	95.7		
Mercury	0.2	0.20	100.0					
Nickel				5.0	5.34	106.8		
Potassium				5000.0	4444.73	88.9		
Selenium				5.0	6.98	139.6		
Silver				5.0	4.96	99.2		
Sodium				5000.0	4397.91	88.0		
Thallium				10.0	13.25	132.5		
Vanadium				20.0	19.02	95.1		
Zinc				20.0	19.88	99.4		

Control Limits: no limits have been established by EPA at this time

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	200.0	U	41.0	B	200.0	U	200.0	U	2.255	B	P
Antimony	10.0	U	3.3	B	4.3	B	3.5	B	1.000	U	P
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Barium	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Beryllium	0.9	B	5.0	U	5.0	U	5.0	U	0.067	B	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Calcium	369.9	B	395.1	B	377.7	B	382.2	B	36.866	B	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Cobalt	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Copper	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Iron	100.0	U	17.7	B	100.0	U	100.0	U	10.000	U	P
Lead	3.0	U	3.0	U	3.0	U	3.0	U	0.300	U	P
Magnesium	5000.0	U	31.8	B	9.0	B	14.3	B	500.000	U	P
Manganese	0.3	B	0.2	B	10.0	U	0.3	B	1.000	U	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.033	U	CV
Nickel	5.0	U	5.0	U	5.0	U	1.1	B	0.500	U	P
Potassium	-1439.0	B	-1424.1	B	-1436.6	B	-1431.3	B	-143.488	B	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Silver	5.0	U	5.0	U	5.0	U	5.0	U	0.041	B	P
Sodium	5000.0	U	5000.0	U	5000.0	U	5000.0	U	500.000	U	P
Thallium	10.0	U	10.0	U	4.1	B	5.1	B	1.000	U	P
Vanadium	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Zinc	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	35.3	B	54.1	B			P
Antimony			3.9	B	3.3	B	2.5	B			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			200.0	U	200.0	U	200.0	U			P
Beryllium			5.0	U	0.8	B	1.2	B			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			377.5	B	380.7	B	382.5	B			P
Chromium			1.0	B	10.0	U	1.0	B			P
Cobalt			1.6	B	5.0	U	5.0	U			P
Copper			5.0	U	5.0	U	5.0	U			P
Iron			100.0	U	100.0	U	100.0	U			P
Lead			2.2	B	3.0	U	3.0	U			P
Magnesium			14.0	B	15.3	B	17.4	B			P
Manganese			0.3	B	0.4	B	0.5	B			P
Mercury			0.200	U	0.200	U	0.200	U			CV
Nickel			5.0	U	1.2	B	0.8	B			P
Potassium			-1423.6	B	-1425.7	B	-1423.2	B			P
Selenium			2.8	B	2.5	B	5.0	U			P
Silver			5.0	U	5.0	U	5.0	U			P
Sodium			5000.0	U	5000.0	U	5000.0	U			P
Thallium			3.2	B	3.7	B	5.2	B			P
Vanadium			20.0	U	20.0	U	20.0	U			P
Zinc			20.0	U	20.0	U	20.0	U			P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury			0.200	U	-0.097	B					CV

SW846 - METALS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	244100	241100	235000	235000	97.5			
Antimony	0	589	3.3	601	102.0			
Arsenic	0	101	-0.77	105	104.0			
Barium	0	495	2.5	490	99.0			
Beryllium	0	475	1.1	484	101.9			
Cadmium	0	940	7.6	931	99.0			
Calcium	234900	231100	245000	244000	105.6			
Chromium	43	511	41.9	504	98.6			
Cobalt	0	461	-0.11	475	103.0			
Copper	23	548	22.9	521	95.1			
Iron	95600	94800	93800	93700	98.8			
Lead	10	61	4.8	53.9	88.4			
Magnesium	247500	251100	254000	252000	100.4			
Manganese	19	502	18.6	500	99.6			
Nickel	21	984	20.8	958	97.4			
Potassium	0	0	-1440	-1430				
Selenium	0	53	1.5	49.5	93.4			
Silver	0	206	0.034	200	97.1			
Sodium	0	0	817	873				
Thallium	0	103	11.1	111	107.8			
Vanadium	0	494	-3.9	481	97.4			
Zinc	28	1028	31.5	919	89.4			

SW846 - METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB85-1.5-2.5S

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	43.1008		1.4880		60.31	69	N	P
Arsenic	75 - 125	4.3282		1.2063	U	4.83	90		P
Barium	75 - 125	246.2681		6.0016	B	241.25	100		P
Beryllium	75 - 125	6.0368		0.1240	B	6.03	98		P
Cadmium	75 - 125	5.7860		0.1008	B	6.03	94		P
Chromium	75 - 125	30.4130		6.0832		24.13	101		P
Cobalt	75 - 125	58.3422		0.3769	B	60.31	96		P
Copper	75 - 125	30.8719		0.9160		30.16	99		P
Lead	75 - 125	5.3089		3.1528		2.41	89		P
Manganese	75 - 125	65.4384		7.5753		60.31	96		P
Mercury	75 - 125	0.3277		0.0493		0.20	139.2	N	CV
Nickel	75 - 125	57.6316		0.9347		60.31	94		P
Selenium	75 - 125	1.5228		0.3840	B	1.21	94		P
Silver	75 - 125	5.5413		0.6031	U	6.03	92		P
Thallium	75 - 125	5.2418		1.2063	U	6.03	87		P
Vanadium	75 - 125	66.7821		6.7494		60.31	100		P
Zinc	75 - 125	57.3072		1.9712	B	60.31	92		P

Comments:

SW846 - METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB85-1.5-2.5SD

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	43.5359		1.4880		60.31	70	N	P
Arsenic	75 - 125	4.3374		1.2063	U	4.83	90		P
Barium	75 - 125	242.8138		6.0016	B	241.25	98		P
Beryllium	75 - 125	5.9703		0.1240	B	6.03	97		P
Cadmium	75 - 125	5.7949		0.1008	B	6.03	94		P
Chromium	75 - 125	30.5491		6.0832		24.13	101		P
Cobalt	75 - 125	58.2080		0.3769	B	60.31	96		P
Copper	75 - 125	30.3710		0.9160		30.16	98		P
Lead	75 - 125	5.5036		3.1528		2.41	98		P
Manganese	75 - 125	65.3143		7.5753		60.31	96		P
Mercury	75 - 125	0.3217		0.0493		0.20	136.2	N	CV
Nickel	75 - 125	57.3262		0.9347		60.31	94		P
Selenium	75 - 125	1.3484		0.3840	B	1.21	80		P
Silver	75 - 125	5.5316		0.6031	U	6.03	92		P
Thallium	75 - 125	4.5663		1.2063	U	6.03	76		P
Vanadium	75 - 125	65.8223		6.7494		60.31	98		P
Zinc	75 - 125	57.0265		1.9712	B	60.31	91		P

Comments:

SW846 - METALS

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

SB85-1.5-2.5A

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Antimony		94.62		12.34		120.0	69		P

Comments:

SW846 - METALS

6

DUPLICATES

SAMPLE NO.

SB85-1.5-2.5D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.9 % Solids for Duplicate: 82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		6085.3840		5646.9580		7.5		P
Antimony	1.2	1.4880		1.4776		0.7		P
Arsenic		1.2063	U	1.2063	U			P
Barium		6.0016	B	6.0340	B	0.5		P
Beryllium		0.1240	B	0.1300	B	4.7		P
Cadmium		0.1008	B	0.1126	B	11.1		P
Calcium		72.9348	B	73.7185	B	1.1		P
Chromium	1.2	6.0832		5.6600		7.2		P
Cobalt		0.3769	B	0.3658	B	3.0		P
Copper	0.6	0.9160		1.2058		27.3		P
Iron		880.4916		859.7238		2.4		P
Lead		3.1528		3.3595		6.3		P
Magnesium		142.1545	B	138.7294	B	2.4		P
Manganese		7.5753		7.7270		2.0		P
Mercury		0.0493		0.0348	B	34.5		CV
Nickel	0.6	0.9347		0.9576		2.4		P
Potassium		156.5627	B	140.9732	B	10.5		P
Selenium		0.3840	B	0.6031	U	200.0		P
Silver		0.6031	U	0.6031	U			P
Sodium		53.2865	B	49.1017	B	8.2		P
Thallium		1.2063	U	1.2063	U			P
Vanadium	2.4	6.7494		6.7292		0.3		P
Zinc		1.9712	B	1.9746	B	0.2		P

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005132

Solid LCS Source: ERA-540

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				7590.0	7846.82		4390.0	10800.0	103
Antimony				77.5	77.85		0.1	173.0	100
Arsenic				80.9	71.45		64.5	97.3	88
Barium				156.0	145.61		128.0	184.0	93
Beryllium				143.0	128.34		117.0	169.0	90
Cadmium				233.0	201.84		188.0	277.0	87
Calcium				4320.0	3794.22		3420.0	5220.0	88
Chromium				60.8	59.78		47.7	73.8	98
Cobalt				68.6	61.40		56.1	81.1	90
Copper				131.0	133.66		108.0	154.0	102
Iron				14400.0	15590.18		7420.0	21400.0	108
Lead				76.8	64.55		61.9	91.8	84
Magnesium				2220.0	1976.16		1710.0	2730.0	89
Manganese				304.0	282.38		243.0	365.0	93
Mercury				3.6	3.8		2.5	4.8	106
Nickel				49.6	44.39		40.4	58.8	89
Potassium				2380.0	2655.42		1700.0	3060.0	112
Selenium				82.9	68.10		62.6	103.0	82
Silver				80.0	76.47		49.0	111.0	96
Sodium				456.0	392.02	B	254.0	658.0	86
Thallium				158.0	134.71		119.0	197.0	85
Vanadium				72.4	72.92		51.7	93.0	101
Zinc				116.0	102.35		90.5	141.0	88

9

ICP SERIAL DILUTIONS

SAMPLE NO.

SB85-1.5-2.5L

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	50447.83		52206.20		3.5		P
Antimony	12.34		15.54	B	25.9		P
Arsenic	10.00	U	50.00	U			P
Barium	49.75	B	1000.00	U	100.0		P
Beryllium	1.03	B	25.00	U	100.0		P
Cadmium	0.84	B	25.00	U	100.0		P
Calcium	604.63	B	2097.00	B	246.8		P
Chromium	50.43		54.87		8.8		P
Cobalt	3.12	B	25.00	U	100.0		P
Copper	7.59		16.94	B	123.2		P
Iron	7299.28		7570.18		3.7		P
Lead	26.14		30.74		17.6		P
Magnesium	1178.46	B	1301.40	B	10.4	E	P
Manganese	62.80		65.26		3.9		P
Mercury	0.25		1.00	U	100.0		CV
Nickel	7.75		11.41	B	47.2		P
Potassium	1297.91	B	25000.00	U	100.0		P
Selenium	3.18	B	25.00	U	100.0		P
Silver	5.00	U	25.00	U			P
Sodium	441.75	B	25000.00	U	100.0		P
Thallium	10.00	U	50.00	U			P
Vanadium	55.95		58.06	B	3.8		P
Zinc	16.34	B	100.00	U	100.0		P

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005132

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	5/27/2010	1.00	100.0
PBS	5/27/2010	1.00	100.0
SB71-4-5	5/27/2010	1.04	100.0
SB71D-4-5	5/27/2010	1.05	100.0
SB77-3.5-4.5	5/27/2010	1.01	100.0
SB78-3.5-4.5	5/27/2010	1.00	100.0
SB79-11-12	5/27/2010	1.03	100.0
SB81-5-6	5/27/2010	1.02	100.0
SB83-6.5-7.5	5/27/2010	1.05	100.0
SB84-6-7	5/27/2010	1.00	100.0
SB85-1.5-2.5	5/27/2010	1.00	100.0
SB85-1.5-2.5D	5/27/2010	1.00	100.0
SB85-1.5-2.5S	5/27/2010	1.00	100.0
SB85-1.5-2.5SD	5/27/2010	1.00	100.0
SB86-3-4	5/27/2010	1.03	100.0
SS62-0-1	5/27/2010	1.00	100.0
SS71-0-1	5/27/2010	1.04	100.0
SS71D-0-1	5/27/2010	1.04	100.0
SS74-0-1	5/27/2010	1.00	100.0
SS77-0-1	5/27/2010	1.00	100.0
SS79-0-1	5/27/2010	1.03	100.0
SS81-0-1	5/27/2010	1.05	100.0
SS83-0-1	5/27/2010	1.03	100.0
SS84-0-1	5/27/2010	1.04	100.0
SS86-0-1	5/27/2010	1.02	100.0

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	5/27/2010	0.20	100.0
PBS	5/27/2010	0.60	100.0
SB71-4-5	5/27/2010	0.63	100.0
SB71D-4-5	5/27/2010	0.62	100.0
SB77-3.5-4.5	5/27/2010	0.61	100.0
SB78-3.5-4.5	5/27/2010	0.60	100.0
SB79-11-12	5/27/2010	0.62	100.0
SB81-5-6	5/27/2010	0.69	100.0
SB83-6.5-7.5	5/27/2010	0.65	100.0
SB84-6-7	5/27/2010	0.61	100.0
SB85-1.5-2.5	5/27/2010	0.60	100.0
SB85-1.5-2.5D	5/27/2010	0.60	100.0
SB85-1.5-2.5S	5/27/2010	0.60	100.0
SB85-1.5-2.5SD	5/27/2010	0.60	100.0
SB86-3-4	5/27/2010	0.63	100.0
SS62-0-1	5/27/2010	0.60	100.0
SS71-0-1	5/27/2010	0.66	100.0
SS71D-0-1	5/27/2010	0.60	100.0
SS74-0-1	5/27/2010	0.63	100.0
SS77-0-1	5/27/2010	0.62	100.0
SS79-0-1	5/27/2010	0.60	100.0
SS81-0-1	5/27/2010	0.60	100.0
SS83-0-1	5/27/2010	0.62	100.0
SS84-0-1	5/27/2010	0.63	100.0
SS86-0-1	5/27/2010	0.60	100.0

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID Number: P4 Method: P

Start Date: 6/11/2010 End Date: 6/11/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN	
S0	1.00	0930		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
S	1.00	0937							X		X		X		X				X		X	X		X		X		
S	1.00	0944		X						X						X				X			X					
S	1.00	0950				X	X	X				X		X			X								X			
S	1.00	0956			X																							
ICV	1.00	1002		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ICB	1.00	1009		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ZZZZZZ	1.00	1016																										
ICSA	1.00	1023		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ICSAB	1.00	1030		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCV	1.00	1037		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCB	1.00	1044		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
LRS	1.00	1055		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ZZZZZZ	1.00	1102																										
ZZZZZZ	1.00	1109																										
ZZZZZZ	1.00	1116																										
ZZZZZZ	1.00	1123																										
ZZZZZZ	1.00	1131																										
ZZZZZZ	1.00	1138																										
ZZZZZZ	5.00	1145																										
ZZZZZZ	1.00	1152																										
ZZZZZZ	1.00	1159																										
CCV	1.00	1206		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCB	1.00	1213		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
ZZZZZZ	1.00	1221																										
ZZZZZZ	1.00	1231																										
ZZZZZZ	1.00	1238																										
ZZZZZZ	1.00	1246																										
CCV	1.00	1253		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
CCB	1.00	1300		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
PBS	1.00	1311		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
LCSS	1.00	1319		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SB85-1.5-2.5	1.00	1326		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SB85-1.5-2.5D	1.00	1333		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SB85-1.5-2.5S	1.00	1340			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X		
SB85-1.5-2.5SD	1.00	1347			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X		
SB85-1.5-2.5L	5.00	1354		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X		
SB85-1.5-2.5A	1.00	1401			X																							

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID Number: P4 Method: P

Start Date: 6/11/2010 End Date: 6/11/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
SB78-3.5-4.5	1.00	1409		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.00	1416		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1423		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS77-0-1	1.00	1430		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB77-3.5-4.5	1.00	1437		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS79-0-1	1.00	1444		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB79-11-12	1.00	1451		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS83-0-1	1.00	1459		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB83-6.5-7.5	1.00	1506		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS62-0-1	1.00	1513		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS74-0-1	1.00	1520		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS86-0-1	1.00	1527		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB86-3-4	1.00	1534		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.00	1541		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1549		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS84-0-1	1.00	1556		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB84-6-7	1.00	1603		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS81-0-1	1.00	1610		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB81-5-6	1.00	1617		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS71-0-1	1.00	1624		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS71D-0-1	1.00	1631		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB71-4-5	1.00	1639		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SB71D-4-5	1.00	1649		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1657																												
ZZZZZZ	1.00	1704																												
CCV	1.00	1711		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1718		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID Number: V4 Method: CV

Start Date: 5/28/2010 End Date: 5/28/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1038																X								
S0.2	1.00	1040																X								
S0.5	1.00	1042																X								
S1	1.00	1044																X								
S5	1.00	1046																X								
S10	1.00	1048																X								
ICV	1.00	1050																X								
ICB	1.00	1052																X								
CRA	1.00	1054																X								
CCV	1.00	1056																X								
CCB	1.00	1058																X								
ZZZZZZ	1.00	1059																								
ZZZZZZ	1.00	1101																								
ZZZZZZ	1.00	1103																								
ZZZZZZ	1.00	1105																								
ZZZZZZ	1.00	1107																								
ZZZZZZ	1.00	1109																								
ZZZZZZ	1.00	1111																								
ZZZZZZ	1.00	1113																								
ZZZZZZ	1.00	1115																								
ZZZZZZ	1.00	1117																								
CCV	1.00	1119																X								
CCB	1.00	1121																X								
ZZZZZZ	1.00	1123																								
ZZZZZZ	1.00	1125																								
ZZZZZZ	1.00	1127																								
ZZZZZZ	1.00	1129																								
ZZZZZZ	1.00	1131																								
ZZZZZZ	1.00	1133																								
ZZZZZZ	1.00	1135																								
ZZZZZZ	1.00	1137																								
ZZZZZZ	1.00	1139																								
ZZZZZZ	1.00	1141																								
CCV	1.00	1143																X								
CCB	1.00	1145																X								
ZZZZZZ	1.00	1147																								
ZZZZZZ	1.00	1149																								
ZZZZZZ	1.00	1151																								

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID Number: V4 Method: CV

Start Date: 5/28/2010 End Date: 5/28/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1153																										
ZZZZZZ	1.00	1155																										
ZZZZZZ	1.00	1157																										
ZZZZZZ	1.00	1159																										
ZZZZZZ	1.00	1200																										
ZZZZZZ	1.00	1203																										
ZZZZZZ	1.00	1205																										
CCV	1.00	1207																X										
CCB	1.00	1209																X										
ZZZZZZ	1.00	1210																										
ZZZZZZ	1.00	1212																										
ZZZZZZ	1.00	1214																										
ZZZZZZ	1.00	1216																										
ZZZZZZ	1.00	1218																										
ZZZZZZ	1.00	1220																										
ZZZZZZ	1.00	1222																										
PBS	1.00	1224																X										
LCSS	1.00	1226																X										
SB85-1.5-2.5	1.00	1228																X										
CCV	1.00	1229																X										
CCB	1.00	1231																X										
SB85-1.5-2.5D	1.00	1233																X										
SB85-1.5-2.5S	1.00	1235																X										
SB85-1.5-2.5SD	1.00	1237																X										
SB85-1.5-2.5L	5.00	1239																X										
SB78-3.5-4.5	1.00	1241																X										
SS77-0-1	1.00	1243																X										
SB77-3.5-4.5	1.00	1245																X										
SS79-0-1	1.00	1247																X										
SB79-11-12	1.00	1249																X										
SS83-0-1	1.00	1251																X										
CCV	1.00	1253																X										
CCB	1.00	1254																X										
SB83-6.5-7.5	1.00	1256																X										
SS62-0-1	1.00	1258																X										
SS74-0-1	1.00	1300																X										
SS86-0-1	1.00	1302																X										
SB86-3-4	1.00	1304																X										

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID Number: V4 Method: CV

Start Date: 5/28/2010 End Date: 5/28/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SS84-0-1	1.00	1306																X									
SB84-6-7	1.00	1308																X									
SS81-0-1	1.00	1310																X									
SB81-5-6	1.00	1312																X									
SS71-0-1	1.00	1314																X									
CCV	1.00	1316																X									
CCB	1.00	1318																X									
SS71D-0-1	1.00	1320																X									
SB71-4-5	1.00	1322																X									
SB71D-4-5	1.00	1324																X									
CCV	1.00	1326																X									
CCB	1.00	1328																X									

3. Quarterly Verification of Instrument Performance

a. Instrument Detection Limits (Quarterly)
[Form X - IN]

b. ICP Interelement Correction Factors (Annually)
[Form XI (Part 1) - IN]

c. ICP Interelement Correction Factors (Annually)
[Form XI (Part 2) - IN]

d. ICP Linear Ranges (Quarterly)
[Form XII - IN]

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005132

ICP ID Number: _____ Date: 4/10/2010

Flame AA ID Number: V4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL ug/L	MDL ug/L	M
Mercury	253.70		0.20	0.091	CV

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005132

ICP ID Number: P4 Date: 4/15/2010

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL ug/L	MDL ug/L	M
Aluminum	308.22		200	31.0	P
Antimony	206.84		10	2.0	P
Arsenic	189.04		10	2.5	P
Barium	493.41		200	15.2	P
Beryllium	313.04		5	0.73	P
Cadmium	226.50		5.0	0.64	P
Calcium	317.93		5000	122	P
Chromium	267.72		10	0.75	P
Cobalt	228.62		5	1.5	P
Copper	324.70		5	1.0	P
Iron	271.44		100	12.2	P
Lead	220.35		3	1.6	P
Magnesium	279.08		5000	7.8	P
Manganese	257.61		10	0.17	P
Nickel	231.60		5	0.63	P
Potassium	766.49		5000	30.9	P
Selenium	196.03		5	2.1	P
Silver	328.07		5	0.64	P
Sodium	330.23		5000	156	P
Thallium	190.86		10	3.0	P
Vanadium	292.40		20	1.5	P
Zinc	206.20		20	4.2	P

Comments: _____

SW846 - METALS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005132

ICP ID Number: _____ Date: 4/10/2010

Flame AA ID Number: V4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL mg/Kg	MDL mg/Kg	M
Mercury	253.70		0.03	0.0070	CV

Comments: _____

SW846 - METALS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

ICP ID Number: P4 Date: 4/15/2010

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRQL mg/Kg	MDL mg/Kg	M
Aluminum	308.22		20.00	0.26	P
Antimony	206.84		1.00	0.26	P
Arsenic	189.04		1.00	0.42	P
Barium	493.41		20.00	0.07	P
Beryllium	313.04		0.50	0.03	P
Cadmium	226.50		0.50	0.06	P
Calcium	317.93		500.00	0.35	P
Chromium	267.72		1.00	0.12	P
Cobalt	228.62		0.50	0.24	P
Copper	324.70		0.50	0.07	P
Iron	271.44		10.00	4.10	P
Lead	220.35		0.30	0.19	P
Magnesium	279.08		500.00	0.76	P
Manganese	257.61		1.00	0.02	P
Nickel	231.60		0.50	0.11	P
Potassium	766.49		500.00	1.90	P
Selenium	196.03		0.50	0.23	P
Silver	328.07		0.50	0.04	P
Sodium	330.23		500.00	16.90	P
Thallium	190.86		1.00	0.18	P
Vanadium	292.40		2.00	0.07	P
Zinc	206.20		2.00	0.65	P

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000430	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000560	0.0000000	0.0000840	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0001550	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000390	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.000904	0.0000000
Lead	220.35	-0.0001560	0.0000000	0.0000000	0.0000000	-0.0004960
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000270	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0004680	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0007960	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0002910	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0052730	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0003220	0.0000000	0.0000000	-0.000280	0.0000000
Cobalt	228.62	0.0000000	0.0001680	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0703370
Lead	220.35	0.0000000	0.0000000	-0.0002140	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0005150	0.0000000	0.0000000	0.0000000	-0.0012010
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0001610	0.0000930	-0.0008840
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Cu	Mn	Mo	Ni
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0021050	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	-0.0030670	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0001080	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0001310	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0068740	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0028440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0001170	-0.001218	0.0001630
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0004510	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0007390	0.0000000	0.0000000
Vanadium	292.40	-0.0016760	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0011640	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Pb	Sb	Se	Sn	Tl
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.004391	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000500	-0.0001990	-0.0000650	-0.000243	-0.0000490
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	-0.0001490	0.0000000	-0.000187	-0.0011190
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0001400	-0.0004280
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	Zn			
Aluminum	308.21	0.0168710	0.0000000			
Antimony	206.84	-0.0021410	0.0000000			
Arsenic	189.04	0.0000000	0.0000000			
Barium	493.41	0.0000000	0.0000000			
Beryllium	313.04	0.0052620	0.0000000			
Cadmium	226.50	0.0000000	-0.0000580			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.72	-0.0003410	0.0000000			
Cobalt	228.62	0.0000000	0.0000000			
Copper	324.70	0.0000000	0.0000000			
Iron	271.44	0.0249430	0.0000000			
Lead	220.35	-0.0001610	0.0000000			
Magnesium	279.08	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	0.0000000	0.0000000			
Silver	328.07	0.0000000	0.0000000			
Sodium	330.23	0.0000000	0.0376950			
Thallium	190.86	-0.0004340	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	206.20	0.0000000	0.0000000			

Comments:

SW846 - METALS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005132

ICP ID Number: P4 Date: 4/15/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	400000.0	P
Antimony	15.00	40000.0	P
Arsenic	15.00	20000.0	P
Barium	15.00	50000.0	P
Beryllium	15.00	5000.0	P
Cadmium	15.00	10000.0	P
Calcium	15.00	700000.0	P
Chromium	15.00	60000.0	P
Cobalt	15.00	50000.0	P
Copper	15.00	30000.0	P
Iron	15.00	700000.0	P
Lead	15.00	60000.0	P
Magnesium	15.00	300000.0	P
Manganese	15.00	50000.0	P
Nickel	15.00	60000.0	P
Potassium	15.00	100000.0	P
Selenium	15.00	40000.0	P
Silver	15.00	1000.0	P
Sodium	15.00	700000.0	P
Thallium	15.00	60000.0	P
Vanadium	15.00	50000.0	P
Zinc	15.00	60000.0	P

Comments: _____

4. Raw Data

For each reported value, the laboratory shall include in the data package all raw data used to obtain that value. This applies to all required QA/QC measurements, instrument standardization, as well as all sample analysis results. This does not apply to the Quarterly Verification of Instrument Parameters submitted as a part of each data package.

The order of the raw data in the data package shall be: ICP, Flame AA (if used), Furnace AA (if used), mercury, and cyanide (if a target analyte).

Raw data shall be labeled using EPA sample number convention in order to identify:

- calibration standards, including source and preparation date
- initial and continuing calibration blanks and preparation blanks
- initial and continuing calibration verification standards, interference check samples, ICP serial dilution samples, CRDL standard for ICP and AA (if used), Laboratory Control Sample, and post digestion spike
- diluted and undiluted samples (by client ID number) and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes
- instrument used, including all data voided or data not used and a brief written explanation
- all information for furnace analysis (if used)
- date and time of each analysis (instrument run logs can be submitted if they contain this information
- integration time for AA analyses (if used)

Daily Instrument Profile

Nebulizer pressure: 32
Peak position: -0 -0.1397
Peak intensity: 10 29.25
Vernier position: 450

Maintenance: NONE

Printed: 6/14/2010 10:47:14 AM

Method(s) (circle one): ILM04.1 ILM05.4 (6010B) 200.7 Other _____

Operator(s): JK **Date/Time** 061110/0930 **to** 061210/0425

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005064	W	TAL
1005078	W	TAL
1005132	S	TAL
1005133	S	TAL
1005157	S	TAL
1005177	S	Sn

Complete

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CAL1	S0 BLANK	CALIB STD	1	06/11/10	09:30:14		
CAL2	S RSTD-1	CALIB STD	1	06/11/10	09:37:23		
CAL4	S RSTD-3	CALIB STD	1	06/11/10	09:44:32		
CAL3	S RSTD-2	CALIB STD	1	06/11/10	09:50:08		
CAL5	S RSTD-4	CALIB STD	1	06/11/10	09:56:31		
ICV1	ICV1	ICV	1	06/11/10	10:02:07		
ICB1	ICB	ICB	1	06/11/10	10:09:15		
CRL1	CRI	CRI	1	06/11/10	10:16:24		
IFA1	ICSA	ICS	1	06/11/10	10:23:32		
IFB1	ICSAB	ICS	1	06/11/10	10:30:41		
CCV1	CCV	CCV	1	06/11/10	10:37:49		
CCB1	CCB	CCB	1	06/11/10	10:44:59		
LRS	LRS	LRS	1	06/11/10	10:55:21		
1005064-14	SDZ-WN03	SAMPLE	15	06/11/10	11:02:29	1005064	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob Munson Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005064-15	SDZ-WN30	SAMPLE	15	06/11/10	11:09:38	1005064	
1005064-17	SDZ-WN10	SAMPLE	15	06/11/10	11:16:46	1005064	
1005064-20	SDZ-WN18	SAMPLE	15	06/11/10	11:23:54	1005064	
1005078-01	SDZ-SW03	SAMPLE	15	06/11/10	11:31:02	1005078	
0051443-DUP1	SDZ-SW03D	SAMPLE	15	06/11/10	11:38:10	1005078	
SRD1	SDZ-SW03L	SAMPLE	75	06/11/10	11:45:18	1005078	
1005078-02	SDZ-WN12	SAMPLE	15	06/11/10	11:52:26	1005078	
1005078-03	SDZ-WN15	SAMPLE	15	06/11/10	11:59:35	1005078	Na↑ 20X
CCV2	CCV	CCV	1	06/11/10	12:06:43		
CCB2	CCB	CCB	1	06/11/10	12:13:53		
1005078-04	SDZ-WN13	SAMPLE	15	06/11/10	12:21:02	1005078	
1005078-07	SDZ-WN14	SAMPLE	15	06/11/10	12:31:06	1005078	
1005078-08	SDZ-WN11	SAMPLE	15	06/11/10	12:38:14	1005078	
1005078-03	SDZ-WN15	SAMPLE	20	06/11/10	12:46:27	1005078	
CCV3	CCV	CCV	1	06/11/10	12:53:36		
CCB3	CCB	CCB	1	06/11/10	13:00:45		
0052619-BLK1	PBS	PBS	1	06/11/10	13:11:58	1005132	
0052619-BS1	LCSS	LCS	1	06/11/10	13:19:06	1005132	
1005132-01	SB85-1.5-2.5	SAMPLE	1	06/11/10	13:26:14	1005132	
0052619-DUP1	SB85-1.5-2.5D	SAMPLE	1	06/11/10	13:33:22	1005132	
0052619-MS1	SB85-1.5-2.5S	SAMPLE	1	06/11/10	13:40:30	1005132	
0052619-MSD1	SB85-1.5-2.5SD	SAMPLE	1	06/11/10	13:47:39	1005132	
SRD2	SB85-1.5-2.5L	SAMPLE	5	06/11/10	13:54:47	1005132	
0052619-PS1	SB85-1.5-2.5A	SAMPLE	1	06/11/10	14:01:55	1005132	
1005132-02	SB78-3.5-4.5	SAMPLE	1	06/11/10	14:09:03	1005132	
CCV4	CCV	CCV	1	06/11/10	14:16:12		
CCB4	CCB	CCB	1	06/11/10	14:23:22		
1005132-03	SB77-0-1	SAMPLE	1	06/11/10	14:30:31	1005132	
1005132-04	SB77-3.5-4.5	SAMPLE	1	06/11/10	14:37:39	1005132	
1005132-05	SB79-0-1	SAMPLE	1	06/11/10	14:44:47	1005132	
1005132-06	SB79-11-12	SAMPLE	1	06/11/10	14:51:56	1005132	
1005132-07	SB83-0-1	SAMPLE	1	06/11/10	14:59:04	1005132	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob Meiera Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005132-08	SB83-6.5-7.5	SAMPLE	1	06/11/10	15:06:13	1005132	
1005132-09	SB62-0-1	SAMPLE	1	06/11/10	15:13:22	1005132	
1005132-10	SB74-0-1	SAMPLE	1	06/11/10	15:20:30	1005132	
1005132-11	SB86-0-1	SAMPLE	1	06/11/10	15:27:38	1005132	
1005132-12	SB86-3-4	SAMPLE	1	06/11/10	15:34:47	1005132	
CCV5	CCV	CCV	1	06/11/10	15:41:56		
CCB5	CCB	CCB	1	06/11/10	15:49:06		
1005132-13	SB86-0-1	SAMPLE	1	06/11/10	15:56:14	1005132	
1005132-14	SB86-6-7	SAMPLE	1	06/11/10	16:03:22	1005132	
1005132-15	SB81-0-1	SAMPLE	1	06/11/10	16:10:31	1005132	
1005132-16	SB81-5-6	SAMPLE	1	06/11/10	16:17:39	1005132	
1005132-17	SB71-0-1	SAMPLE	1	06/11/10	16:24:47	1005132	
1005132-18	SB71D-0-1	SAMPLE	1	06/11/10	16:31:55	1005132	
1005132-19	SB71-4-5	SAMPLE	1	06/11/10	16:39:03	1005132	
1005132-20	SB71D-4-5	SAMPLE	1	06/11/10	16:49:52	1005132	
0052615-BLK1	PBS	PBS	1	06/11/10	16:57:00	1005133	Pb, Sb ↑ RN
0052615-BS1	LCSS	LCS	1	06/11/10	17:04:09	1005133	
CCV6	CCV	CCV	1	06/11/10	17:11:18		
CCB6	CCB	CCB	1	06/11/10	17:18:27		
1005133-01	SS73-0-1	SAMPLE	1	06/11/10	17:25:36	1005133	
0052615-DUP1	SS73-0-1D	SAMPLE	1	06/11/10	17:32:45	1005133	
0052615-MS1	SS73-0-1S	SAMPLE	1	06/11/10	17:39:53	1005133	
0052615-MSD1	SS73-0-1SD	SAMPLE	1	06/11/10	17:47:02	1005133	
SRD3	SS73-0-1L	SAMPLE	5	06/11/10	17:54:10	1005133	
0052615-PS1	SS73-0-1A	SAMPLE	1	06/11/10	18:01:18	1005133	
1005133-02	SB74-4-5	SAMPLE	1	06/11/10	18:08:26	1005133	
1005133-03	SS75-0-1	SAMPLE	1	06/11/10	18:15:34	1005133	
1005133-04	SS75-3.5-4.5	SAMPLE	1	06/11/10	18:22:43	1005133	
1005133-05	SS63-0-1	SAMPLE	1	06/11/10	18:29:51	1005133	
CCV7	CCV	CCV	1	06/11/10	18:37:00		
CCB7	CCB	CCB	1	06/11/10	18:44:09		
1005133-06	SS63-5.5-6.5	SAMPLE	1	06/11/10	18:51:18	1005133	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob McEwen Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005133-07	SS61-0-1	SAMPLE	1	06/11/10	18:58:27	1005133	
1005133-08	SS61-D-0-1	SAMPLE	1	06/11/10	19:05:35	1005133	
1005133-09	SB61-6-7	SAMPLE	1	06/11/10	19:12:43	1005133	
1005133-10	SB61D-6-7	SAMPLE	1	06/11/10	19:19:52	1005133	
1005133-11	SS67-0-1	SAMPLE	1	06/11/10	19:29:48	1005133	
1005133-12	SS72-0-1	SAMPLE	1	06/11/10	19:36:56	1005133	
1005133-13	SB72-2-3	SAMPLE	1	06/11/10	19:44:05	1005133	
1005133-14	SS88-0-1	SAMPLE	1	06/11/10	19:51:14	1005133	
1005133-15	SB88-2.5-3.5	SAMPLE	1	06/11/10	19:58:22	1005133	
CCV8	CCV1	CCV	1	06/11/10	20:05:30		
CCB8	CCB1	CCB	1	06/11/10	20:12:40		
1005133-16	SS76-0-1	SAMPLE	1	06/11/10	20:19:48	1005133	
1005133-17	SB76-6-7	SAMPLE	1	06/11/10	20:26:57	1005133	
1005133-18	SS87-0-1	SAMPLE	1	06/11/10	20:34:05	1005133	
1005133-19	SB87-0-1	SAMPLE	1	06/11/10	20:41:14	1005133	
1005133-20	SS68-0-1	SAMPLE	1	06/11/10	20:48:22	1005133	
0052623-BLK1	PBS	PBS	1	06/11/10	20:55:31	1005157	
0052623-BS1	LCSS	LCS	1	06/11/10	21:02:39	1005157	
1005157-01	SS73-9-10	SAMPLE	1	06/11/10	21:09:48	1005157	
0052623-DUP1	SS73-9-10D	SAMPLE	1	06/11/10	21:16:56	1005157	
0052623-MS1	SS73-9-10S	SAMPLE	1	06/11/10	21:24:05	1005157	
CCV9	CCV1	CCV	1	06/11/10	21:31:14		
CCB9	CCB1	CCB	1	06/11/10	21:38:23		
0052623-MSD1	SS73-9-10SD	SAMPLE	1	06/11/10	21:45:31	1005157	
SRD4	SS73-9-10L	SAMPLE	5	06/11/10	21:52:40	1005157	
0052623-PS1	SS73-9-10A	SAMPLE	1	06/11/10	21:59:49	1005157	
1005157-02	SS51-0-1	SAMPLE	1	06/11/10	22:06:57	1005157	
1005157-03	SS51D-0-1	SAMPLE	1	06/11/10	22:14:06	1005157	
1005157-04	SS90-0-1	SAMPLE	1	06/11/10	22:21:15	1005157	
1005157-05	SB90-0-1	SAMPLE	1	06/11/10	22:28:24	1005157	
1005157-06	SS70-0-1	SAMPLE	1	06/11/10	22:35:32	1005157	
1005157-07	SS70-1-2	SAMPLE	1	06/11/10	22:42:41	1005157	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob Meiers Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005157-08	SS69-0-1	SAMPLE	1	06/11/10	22:49:50	1005157	
CCVA	CCV1	CCV	1	06/11/10	22:56:59		
CCBA	CCB1	CCB	1	06/11/10	23:04:08		
1005157-09	SB69-2-3	SAMPLE	1	06/11/10	23:11:17	1005157	
1005157-10	SB64-1-2	SAMPLE	1	06/11/10	23:18:26	1005157	
1005157-11	SB65-1-2	SAMPLE	1	06/11/10	23:25:34	1005157	
1005157-12	SB64-0-1	SAMPLE	1	06/11/10	23:32:43	1005157	
1005157-13	SB66-0-1	SAMPLE	1	06/11/10	23:39:52	1005157	
1005157-14	SB65-0-1	SAMPLE	1	06/11/10	23:47:01	1005157	
1005157-15	SS82-0-1	SAMPLE	1	06/11/10	23:54:10	1005157	
1005157-16	SS82D-0-1	SAMPLE	1	06/12/10	00:01:18	1005157	
1005157-17	SS82-2-3	SAMPLE	1	06/12/10	00:08:28	1005157	
1005157-18	SS82D-2-3	SAMPLE	1	06/12/10	00:15:37	1005157	
CCVB	CCV1	CCV	1	06/12/10	00:22:46		
CCBB	CCB1	CCB	1	06/12/10	00:29:55		
0052615-BLK1	PBS	PBS	1	06/12/10	00:37:04	1005133	
0052628-BLK1	PBS	PBS	1	06/12/10	00:44:13	1005177	
0052628-BS1	LCSS	LCS	1	06/12/10	00:51:21	1005177	
1005177-01	59SB13-00	SAMPLE	1	06/12/10	00:58:30	1005177	
0052628-DUP1	59SB13-00D	SAMPLE	1	06/12/10	01:05:39	1005177	
0052628-MS1	59SB13-00S	SAMPLE	1	06/12/10	01:12:48	1005177	
0052628-MSD1	59SB13-00SD	SAMPLE	1	06/12/10	01:19:58	1005177	
SRD5	59SB13-00L	SAMPLE	5	06/12/10	01:27:07	1005177	
0052628-PS1	59SB13-00A	SAMPLE	1	06/12/10	01:34:15	1005177	
1005177-02	59SB18-00	SAMPLE	1	06/12/10	01:41:25	1005177	
CCVC	CCV2	CCV	1	06/12/10	01:48:34		
CCBC	CCB2	CCB	1	06/12/10	01:55:43		
1005177-03	59SB18-01	SAMPLE	1	06/12/10	02:02:52	1005177	
1005177-04	59SB18-02	SAMPLE	1	06/12/10	02:10:02	1005177	
1005177-05	59SB19-01	SAMPLE	1	06/12/10	02:17:11	1005177	
1005177-06	59SB19-05	SAMPLE	1	06/12/10	02:24:20	1005177	
1005177-07	59SB20-00	SAMPLE	1	06/12/10	02:31:29	1005177	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob Maness Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005177-08	59SB20-01	SAMPLE	1	06/12/10	02:38:39	1005177	
1005177-09	59SB20-05	SAMPLE	1	06/12/10	02:45:48	1005177	
1005177-10	59SB21-00	SAMPLE	1	06/12/10	02:52:57	1005177	
1005177-11	59SB21-01	SAMPLE	1	06/12/10	03:00:06	1005177	
1005177-12	59SB21-05	SAMPLE	1	06/12/10	03:07:15	1005177	
CCVD	CCV2	CCV	1	06/12/10	03:14:24		
CCBD	CCB2	CCB	1	06/12/10	03:21:33		
1005177-13	59SB22-00	SAMPLE	1	06/12/10	03:28:43	1005177	
1005177-14	59SB22-01	SAMPLE	1	06/12/10	03:35:52	1005177	
1005177-15	59SB22-05	SAMPLE	1	06/12/10	03:43:01	1005177	
1005177-16	59SB21-01D	SAMPLE	1	06/12/10	03:50:11	1005177	
1005177-17	59SB23-00	SAMPLE	1	06/12/10	03:57:20	1005177	
1005177-18	59SB23-01	SAMPLE	1	06/12/10	04:04:29	1005177	
1005177-19	59SB23-05	SAMPLE	1	06/12/10	04:11:39	1005177	
CCVE	CCV2	CCV	1	06/12/10	04:18:48		
CCBE	CCB2	CCB	1	06/12/10	04:25:57		

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob Mueller Date: 06-14-2010

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: P40611, P40611A

	Ref #*	Manufacturer	Lot #	Expiration Date
HNO_3 [Baker Instra-analyzed Trace-Metals grade]	DE19001	JT Baker	510027	05.19.15
HCl [Baker Instra-analyzed Trace-Metals grade]	DE20028	Caledon	72420	05.20.15
SM-770-027 multi-element standard mix (RSTD-1)	9G08002	High Purity	0916328	06/15/10
SM-770-028 part A multi-element standard mix (RSTD-2A)	9J22002	High Purity	0928011	10/12/2010
SM-770-028 part B multi-element standard mix (RSTD-2B)	9J22001	High Purity	0928012	10/12/2010
SM-770-029 part A multi-element standard mix (RSTD-3A)	0D14008	High Purity	0925430	04/09/11
SM-770-029 part B multi-element standard mix (RSTD-3B)	9G08005	High Purity	0906204	10/16/10
SM-770-030 multi-element standard mix (RSTD-4)	9G08001	High Purity	0916327	06/15/10
SPEX-R multi-element standard mix	0A04007	High Purity	0916301	06/15/10
ICP-AES-CRQL-R multi-element standard mix	9I04002	High Purity	0923808	08/28/10
ICV1 multi-element standard mix	0B04003	EPA	0307	02/04/11
ICSA multi-element standard mix	0B04002	EPA	1206	02/04/11
ICSB multi-element standard mix	0B04001	EPA	0203	02/04/11
SM-770-031 multi-element standard mix (PDS-R)	9I22001	High Purity	0926418	09/17/10
ARSENIC (As) 1,000 PPM single-element standard	9F17001	High Purity	0911221	12/05/10
Internal Mix	0B04004	High Purity	0934101	12/10/10
SM-770-040 multi-element CCV mix (Soln A)	0E03001	High Purity	1010910	04/21/11
SM-770-040 multi-element CCV mix (Soln B)	0E03001	High Purity	1010911	04/21/11
SM-770-042 (LRS 6010B)	0B23007	High Purity	1004021	02/10/11

Multi-Element Stock Standard Concentrations:

Stock Standard	Analyte Concentrations (ug/mL)
RSTD-1 multi-element standard mix	Cd:1,000 Cr:1,000 Cu:1,000 Pb:1,000 Ni:1,000 Se:1,000 Ag:100 Tl:1,000 Zn:1,000
RSTD-2A/2B multi-element standard mix	Part A: As:1,000 Ba:1,000 Be:1,000 Co:1,000 Mn:1,000 Mo:1,000 V:1,000 Part B: Fe:25,000
RSTD-3A/3B multi-element standard mix	Part A: Ca:10,000 Mg:10,000 K:10,000 Na:10,000 Part B: Al:10,000
RSTD-4 multi-element standard mix	Sb:1,000 Bi:1,000 B:1,000 Sn:1,000 Ti:1,000
SPEX-R multi-element standard mix	Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 B:1,000
ICP-AES-CRQL-R multi-element standard mix	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60
PDS-R multi-element standard mix	Al:400 Ba:400 Ag:20 Be:10 Cd:10 Co:100 Cr:20 Cu:50 Fe:200 Mn:30 Ni:80 Tl:20 V:100 Zn:40 Pb:6 Se:10 As:20 Sb:120
Internal Mix	Li:50,000 Y:250
LRS 6010B multi-element standard mix	Al: 20 Sb:1 As:1 Ba:20 Be:0.5 Bi:2 B:2 Cd:0.5 Ca:500 Cr:1 Co:0.5 Cu:0.5 Fe:10 Pb:0.3 Mg:500 Mn:1 Mo:2 Ni:0.5 K:500 Se:0.5 Ti:0.5 V:2 Zn:2

Entered By: Sherry A. McMillan

Reviewed By: Bob McEwen

Date: 06-14-2010

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

**High Purity is abbreviated "HP" on reporting forms

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 2 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation Instructions	Resultant Analyte Conc. (µg/L)
S0/ICB/CCB- 06.09.10 - SGM	OF09006	Place in a 500 mL volumetric flask: 100 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Bring up to volume with deionized water. Transfer to a 2L Teflon bottle and add 1.5L deionized water. Final volume 2 L. Prepare as needed.	N/A
RSTD-1- 06.09.10-JCF	OF09001	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-1 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
RSTD-2- 06.09.10-JCF	OF09002	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL each RSTD-2A and RSTD-2B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:50,000 Mn:2,000 Mo:2,000 V:2,000
RSTD-3- 06.09.10-JCF	OF09003	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 2.0 mL each RSTD-3A and RSTD-3B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	K:100,000 Na:100,000 Al:100,000 Mg:100,000 Ca:100,000
RSTD-4- 06.09.10-JCF	OF09004	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-4 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Tl:2,000 Sb:2,000 B:2,000
ICV1- 06.09.10-SGM	OF09010	Place in a 500 mL volumetric flask: 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICV1 into flask and 0.55 mL Compuchem SPEX-R. Bring up to volume with deionized water. Transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:2,521 Ba:497 K:10,021 Mg:6,074 Na:10,097 Ca:10,026 Ag:501 Be:495 Cd:496 Co:499 Cr:490 Cu:492 Fe:5,082 Mn:499 Ni:503 Tl:1,028 V:501 Zn:1,025 Pb:1002 Se:1,029 As:999 Sb:994 Mo:1,100 Sn:1,100 Bi:1,100 Ti:1,100 B:1,100
CCV/CVS1- 06.10.10-SGM	OF10004	Place in a 500-mL volumetric flask: 300 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Add 50 ml of SM-770-40 Soln A and Soln B. Bring up to volume with deionized water. Transfer to a 2000mL Teflon bottle and add 1.5 L of deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:25,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,100 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000
LRS- 04.26.10-JCF	OD25008	In a 500 mL volumetric flask, combine 200 mL deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 5.0mL of LRS 6010B. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:200 Ba:200 K:5,000 Mg:5,000 Na:5,000 Ca:5,000 Ag:5 Be:5 Cd:5 Co:10 Cr:10 Cu:5 Fe:100 Mn:10 Ni:5 Tl:10 V:20 Zn:20 Pb:3 Se:5 As:10 Mo:20 Sn:20 Bi:20 Ti:20 Sb:10 B:20

Standard Solutions Prepared By: SGM / JCF

Entered By: [signature] McDonnell

Reviewed By: Bob Mercer

Date: 06-14-2010

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (ug/L)
As- 05.13.10-JCF	OE13006	In a 100 mL volumetric flask, combine 50 mL deionized water, 1 mL concentrated HNO_3, 5 mL concentrated HCl, and 0.1 mL 1000-ppm As standard. Bring to final 100 mL volume	As:1,000
ICSA- 06.09.10-SAM	OF09008	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Al:244,100 Ba:2 Ca:234,900 Co:4 Cr:43 Cu:23 Fe:95,600 Mg:247,500 Mn:19 Ni:21 Zn:28 Pb:10
ICSAB- 06.09.10-SAM	OF09009	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA and 50.0 mL ICSB into flask. Add 0.5 mL Compuchem SPEX-R. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Ag:206 Al:241,100 Ba:495 Be:475 Ca:231,100 Cd:940 Co:461 Cr:511 Cu:548 Fe:94,800 Mg:251,100 Mn:502 Ni:984 Tl:103 V:494 Zn:1028 Pb:61 Se:53 Sb:589 As:101 Sn:1,000 Bi:1,000 Mo:1,000 Tl:1,000 B:1,000
EPA-CRI- 06.03.10-JCF	OF03019	In a 500 mL volumetric flask, combine 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 0.50 mL ICP-AES-CRQL-R and 25 µL Compuchem SPEX-R into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60 Sn:50 B:50 Mo:50 Bi:50 Tl:50
P3RINSE- 06.09.10-JCF	OF09005	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P4RINSE- 06.09.10-JCF	OF09007	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P5RINSE- NA	NA	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P3INTSTD- 06.10.10-SAM	OF10002	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P4INTSTD- 05.11.10-JCF	OE11004	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P5INTSTD- NA	NA	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000

Standard Solutions Prepared By: SAM/JCF

Entered By: [signature]

Reviewed By: BD McEvoy

Date: 06-14-2010

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

METHOD: ALT-P4Q2 STANDARD: S0 BLANK
RUN TIME: 06/11/10 09:30:14

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
AVGE	-.00400	.23509	.04440	.07926	.03026	.10241	.06948
SDEV	.00100	.00429	.00020	.00109	.00066	.00133	.00071
%RSD	25.000	1.8243	.44867	1.3752	2.1737	1.2962	1.0146
#1	-.00500	.23382	.04461	.07801	.03055	.10285	.06966
#2	-.00400	.23157	.04438	.07974	.02951	.10092	.06871
#3	-.00300	.23987	.04421	.08003	.03073	.10346	.07008

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
AVGE	-.00084	.66863	-.00225	.05294	.00197	.00037	.00050
SDEV	.00260	.03043	.00295	.00893	.00407	.00034	.00256
%RSD	311.15	4.5517	131.46	16.864	206.20	91.512	509.92
#1	.00088	.69097	-.00022	.06307	.00491	.00066	.00044
#2	-.00383	.63397	-.00563	.04956	-.00267	.00000	-.00203
#3	.00044	.68097	-.00088	.04620	.00367	.00044	.00310

ELEM	NI2316	TL1908	V_2924	ZN2062	SB2068	AS1890	22031
AVGE	-.00134	-.01575	.00074	-.00031	.00911	-.02218	.01997
SDEV	.00202	.00552	.00078	.00111	.00872	.02392	.03029
%RSD	150.30	35.081	105.57	362.29	95.711	107.85	151.69
#1	-.00132	-.01297	.00066	.00044	.01319	-.00747	.02945
#2	-.00338	-.01216	.00000	-.00158	-.00090	-.04978	.04438
#3	.00066	-.02211	.00155	.00022	.01503	-.00929	-.01393

ELEM	22032	19601	19602	SN1899	BI2230	MO2020	TI3349
AVGE	-.01319	-.05721	.04386	-.00164	.00179	.00132	-.01110
SDEV	.01100	.01813	.03818	.01240	.00180	.00212	.00931
%RSD	83.412	31.698	87.054	756.18	100.35	160.95	83.834
#1	-.00418	-.05011	.06637	.00022	.00110	.00374	-.00549
#2	-.02545	-.04370	-.00023	-.01487	.00383	-.00023	-.02185
#3	-.00995	-.07782	.06544	.00973	.00044	.00044	-.00597

STANDARDIZATION RPT. 06/11/10 09:44:29 AM PAGE 1

METHOD: ALT-P4Q2 STANDARD: S RSTD-1
RUN TIME: 06/11/10 09:37:23

ELEM	AG3280	CD2265	CR2677	CU3247	NI2316	TL1908	ZN2062
AVGE	5.8370	20.316	4.5395	124.45	7.4297	6.2437	2.0181
SDEV	.1091	.152	.0940	1.13	.0693	.0539	.0410
%RSD	1.8694	.74975	2.0711	.90580	.93289	.86379	2.0331
#1	5.7187	20.308	4.5257	123.35	7.4357	6.2750	1.9912
#2	5.8587	20.168	4.4531	124.38	7.3576	6.1815	1.9976
#3	5.9337	20.472	4.6396	125.60	7.4958	6.2747	2.0653

ELEM	22031	22032	19601	19602
AVGE	33.251	11.956	8.6256	16.821
SDEV	.302	.155	.0915	.264
%RSD	.90784	1.2958	1.0602	1.5681
#1	33.307	11.992	8.6895	16.988
#2	32.924	11.786	8.5208	16.517
#3	33.520	12.090	8.6665	16.958

STANDARDIZATION RPT. 06/11/10 09:50:04 AM PAGE 1

METHOD: ALT-P4Q2 STANDARD: S RSTD-3
RUN TIME: 06/11/10 09:44:32

ELEM	AL3082	CA3179	K_7664	MG2790	NA3302
AVGE	60.854	76.864	411.99	59.172	3.8864
SDEV	.537	.735	4.64	.731	.0361
%RSD	.88292	.95669	1.1258	1.2354	.92804
#1	61.200	77.222	415.18	59.657	3.9111
#2	60.235	76.018	406.67	58.331	3.8450
#3	61.126	77.352	414.11	59.527	3.9032

METHOD: ALT-P4Q2 STANDARD: S RSTD-2
RUN TIME: 06/11/10 09:50:08

ELEM	BA4934	BE3130	CO2286	FE2714	MN2576	V_2924	AS1890
AVGE	32.916	15.599	4.0350	5.5951	4.5285	3.4756	13.973
SDEV	.517	.181	.0446	.0663	.0492	.0518	.250
%RSD	1.5720	1.1603	1.1044	1.1854	1.0859	1.4904	1.7860
#1	32.331	15.392	3.9920	5.5219	4.4872	3.4197	13.692
#2	33.315	15.679	4.0809	5.6513	4.5829	3.4850	14.169
#3	33.101	15.726	4.0322	5.6119	4.5154	3.5220	14.058

ELEM	MO2020
AVGE	3.7125
SDEV	.0680
%RSD	1.8325
#1	3.6355
#2	3.7380
#3	3.7642

STANDARDIZATION RPT. 06/11/10 10:02:03 AM PAGE 1

METHOD: ALT-P4Q2 STANDARD: S RSTD-4
RUN TIME: 06/11/10 09:56:31

ELEM	SB2068	SN1899	BI2230	TI3349
AVGE	5.4736	19.593	4.0297	44.002
SDEV	.0272	.054	.0126	.489
%RSD	.49760	.27312	.31286	1.1122
#1	5.4466	19.569	4.0439	44.501
#2	5.4732	19.655	4.0197	43.981
#3	5.5010	19.556	4.0256	43.523

METHOD: ALT-P4Q2 SAMPLE NAME: ICV1 OPERATOR:
RUN TIME: 06/11/10 10:02:07
COMMENT: ICV1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	499.3381	2399.053	492.5311	501.8003	9633.907	487.7294	501.7988
SDEV	2.0751	7.571	5.0885	.5125	20.804	3.4890	5.1167
%RSD	.4155610	.3156035	1.033143	.1021378	.2159485	.7153618	1.019669
#1	497.0441	2405.524	486.6711	501.8573	9613.704	483.8043	496.6967
#2	499.8859	2400.909	495.8336	502.2819	9655.265	490.4787	506.9299
#3	501.0843	2390.726	495.0886	501.2617	9632.754	488.9051	501.7699
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	501.0000	2521.000	497.0000	495.0000	10026.00	496.0000	499.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	486.0225	496.4845	4936.160	10715.09	5968.230	494.2282	9585.219
SDEV	2.0089	1.0853	36.139	39.79	33.898	4.3934	53.200
%RSD	.4133258	.2186033	.7321252	.3713204	.5679809	.8889453	.5550247
#1	484.8351	495.2673	4896.275	10730.87	5948.300	490.0895	9558.744
#2	488.3419	497.3516	4966.729	10744.57	6007.371	498.8383	9646.462
#3	484.8904	496.8346	4945.476	10669.84	5949.020	493.7567	9550.449
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	490.0000	492.0000	5082.000	10021.00	6074.000	499.0000	10097.00
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	490.0078	1003.900	498.7670	950.9615	970.9829	976.1964	976.2063
SDEV	2.8054	8.493	3.3519	4.9462	4.2567	2.4815	5.2470
%RSD	.5725160	.8459991	.6720352	.5201261	.4383929	.2541966	.5374895
#1	486.7704	994.5949	501.8827	945.4002	971.6840	978.4132	970.7034
#2	491.7248	1011.234	499.1977	954.8683	966.4192	976.6602	981.1531
#3	491.5282	1005.871	495.2206	952.6161	974.8456	973.5158	976.7624
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	503.0000	1028.000	501.0000	1025.000	1002.000	1029.000	994.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	996.3701	972.0798	970.4313	972.2373	978.1705	1164.864	1116.049
SDEV	5.3666	3.5804	6.6658	11.6422	2.8476	5.390	7.833
%RSD	.5386179	.3683270	.6868892	1.197464	.2911116	.4627482	.7018332
#1	992.4915	967.9756	973.5315	978.2790	978.4777	1159.504	1107.036
#2	1002.495	973.7004	962.7801	979.6166	975.1818	1170.284	1121.214
#3	994.1240	974.5635	974.9825	958.8163	980.8520	1164.804	1119.895
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	999.0000					1100.000	1100.000
RANGE	10.40000					10.40000	10.40000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1146.752	1153.113	4579.244
SDEV	6.908	3.930	18.180
%RSD	.6023796	.3408442	.3970083
#1	1138.776	1151.375	4572.333
#2	1150.854	1157.613	4565.533
#3	1150.625	1150.351	4599.866
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1100.000	1100.000	
RANGE	10.40000	10.40000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICB OPERATOR:
RUN TIME: 06/11/10 10:09:15
COMMENT: ICB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2624972	25.18596	.1609488	.8693970	369.9392	-.348104	-.787435
SDEV	.2279729	4.63534	.1824859	.2993510	2.7957	.070364	.340634
%RSD	86.84776	18.40446	113.3814	34.43203	.7557205	20.21360	43.25863
#1	.2054325	24.47046	.0852491	.6463900	369.1691	-.270500	-1.02486
#2	.0684775	20.94998	.0284951	.7521824	367.6092	-.407746	-.940303
#3	.5135814	30.13746	.3691021	1.209619	373.0392	-.366065	-.397146
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4343163	-.301598	-1.55235	-1439.01	1.257381	.2560891	8.216570
SDEV	.3287528	.143607	6.85725	7.58	3.769423	.0615512	11.10145
%RSD	75.69434	47.61527	441.7322	.5267190	299.7836	24.03508	135.1105
#1	.6714255	-.414697	1.391194	-1441.94	-.102660	.2191244	14.37434
#2	.5724967	-.350070	3.341677	-1444.69	-1.64328	.2220000	-4.59903
#3	.0590267	-.140028	-9.38993	-1430.40	5.518082	.3271430	14.87439
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5692617	1.941027	.2445768	.7523528	-.070605	.5392692	1.112717
SDEV	.0963476	1.392730	.4797520	.5181072	1.129684	1.187738	1.551138
%RSD	16.92502	71.75223	196.1560	68.86493	1600.016	220.2496	139.4010
#1	.4830344	2.529525	.3705405	1.350606	-1.36219	1.390428	-.138528
#2	.6732564	.3506492	-.285590	.4555213	.4169189	1.045016	2.848213
#3	.5514941	2.942906	.6487799	.4509315	.7334531	-.817636	.6284644
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7444308	1.045769	-.630741	-2.43779	2.022780	-.493067	-.382672
SDEV	2.269535	2.301563	.546105	2.06390	2.705902	3.428779	1.280807
%RSD	304.8684	220.0832	86.58142	84.66288	133.7714	695.3976	334.7010
#1	3.105891	-1.59534	-1.24854	-2.67407	3.416867	-1.77907	-1.00318
#2	.5477829	2.110228	-.431254	-4.37338	3.747367	-3.09293	-1.23504
#3	-1.42038	2.622422	-.212427	-.265916	-1.09589	3.392800	1.090206
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.089160	.3613929	4330.289
SDEV	.832358	.3365849	39.472
%RSD	39.84175	93.13545	.9115322
#1	2.019607	.2530292	4370.133
#2	1.293761	.0923374	4329.533
#3	2.954113	.7388121	4291.200
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 06/11/10 10:16:24
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.575439	2.433710	.0413337	5.166122	373.3642	5.332054	53.14931
SDEV	.206381	7.041172	.0207104	.081942	.4952	.195239	.68675
%RSD	2.155319	289.3185	50.10531	1.586148	.1326271	3.661608	1.292113
#1	9.381420	-4.13442	.0557098	5.098160	373.9345	5.158234	52.56309
#2	9.792285	9.867817	.0506960	5.257116	373.0432	5.543295	53.90490
#3	9.552614	1.567732	.0175953	5.143091	373.1150	5.294632	52.97993
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.52995	25.59276	7.484214	-1433.81	1.797187	15.78265	44.09402
SDEV	.61489	.23432	2.914716	1.22	.510193	.27418	8.98310
%RSD	5.839440	.9155876	38.94485	.0849652	28.38844	1.737230	20.37261
#1	10.03063	25.82435	6.894575	-1433.55	1.766781	15.52271	51.91682
#2	10.34246	25.35579	10.64867	-1432.74	2.321903	15.75610	46.08168
#3	11.21676	25.59815	4.909397	-1435.14	1.302877	16.06914	34.28355
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	41.67993	25.87846	50.94109	62.29254	9.052007	36.16170	62.72596
SDEV	.48391	1.41937	.36143	1.15700	.144708	1.18327	.76805
%RSD	1.161020	5.484759	.7095001	1.857367	1.598628	3.272168	1.224449
#1	41.45895	27.36001	51.01461	60.95760	9.055607	35.29678	61.95569
#2	41.34595	24.53075	50.54856	63.00583	9.194881	37.51017	63.49177
#3	42.23488	25.74462	51.26011	62.91420	8.905533	35.67816	62.73042
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.53540	10.10251	8.524637	31.76773	38.35281	53.85080	50.21076
SDEV	.59972	1.65589	1.043053	1.16624	1.19178	2.51919	1.58142
%RSD	5.692388	16.39083	12.23575	3.671150	3.107400	4.678083	3.149566
#1	10.04438	9.901384	8.630453	30.91257	37.48302	52.81691	50.93641
#2	11.20380	8.556374	9.510750	33.09623	39.71124	56.72245	51.29913
#3	10.35803	11.84977	7.432710	31.29441	37.86416	52.01306	48.39674
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000					50.00000	
RANGE	3.000000					15.00000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	51.92784	51.98336	4673.999
SDEV	.78681	.11034	10.889
%RSD	1.515208	.2122628	.2329600
#1	52.52882	52.07442	4685.600
#2	52.21744	51.86065	4672.400
#3	51.03727	52.01500	4663.999
ERRORS	NOCHECK	NOCHECK	NOCHECK
VALUE			
RANGE			

METHOD: ALT-P4Q2 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 06/11/10 10:23:32
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0342388	234789.4	2.459795	1.055851	244554.9	7.557533	-.108895
SDEV	.0342388	3552.2	.024640	.207583	2180.7	.080672	.314913
%RSD	99.99999	1.512944	1.001696	19.66027	.8917088	1.067441	289.1886
#1	.0684775	232363.9	2.441396	.8166704	244346.2	7.536713	-.450483
#2	.0342388	233137.5	2.450201	1.189050	242486.1	7.646574	.1698723
#3	.0000000	238866.8	2.487789	1.161833	246832.5	7.489311	-.046075
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	10.00000	48820.00	400.0000	10.00000	46980.00	10.00000	10.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	41.93205	22.91069	93844.88	-1435.88	254162.1	18.60916	816.5173
SDEV	.39747	.33204	532.17	.83	2136.1	.11317	40.8852
%RSD	.9478983	1.449278	.5670710	.0576792	.8404616	.6081547	5.007261
#1	41.47542	22.88376	93558.09	-1436.40	252917.7	18.47928	794.4129
#2	42.20034	22.59294	93517.62	-1434.92	252940.0	18.66164	863.6962
#3	42.12040	23.25538	94458.93	-1436.32	256628.7	18.68658	791.4427
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	10.00000	19120.00	2000.000	49500.00	20.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	20.79599	11.09451	-3.90428	31.48201	4.828816	1.479741	3.328081
SDEV	1.03537	2.12363	.65605	.59135	.940254	2.644476	4.311686
%RSD	4.978707	19.14124	16.80328	1.878371	19.47173	178.7121	129.5547
#1	21.21725	13.37244	-3.93794	31.41819	5.905561	4.205367	6.169823
#2	19.61639	10.74174	-3.23205	32.10268	4.411041	-1.07533	5.447550
#3	21.55433	9.169365	-4.54284	30.92516	4.169847	1.309186	-1.63313
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	1.000000	28.00000	10.00000	.0000000	.0000000
RANGE	10.00000	20.00000	40.00000	40.00000	6.000000	10.00000	20.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.773342	-14.1613	14.30621	6.819340	-1.18881	-4.06804	2.884927
SDEV	2.147971	.7038	1.59298	2.877893	5.05098	1.43331	1.849816
%RSD	277.7516	4.969768	11.13491	42.20192	424.8758	35.23350	64.12003
#1	.2531725	-14.4145	16.04697	3.706392	4.451763	-3.75595	1.136221
#2	-3.24197	-14.7035	13.95054	7.368625	-5.29374	-5.63168	4.821515
#3	.6687720	-13.3660	12.92112	9.383004	-2.72446	-2.81648	2.697046
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	20.00000					100.0000	100.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-2.17226	-4.24842	4386.267
SDEV	2.11276	.07800	60.771
%RSD	97.26096	1.836086	1.385491
#1	.2667868	-4.25004	4448.667
#2	-3.43705	-4.32560	4382.866
#3	-3.34653	-4.16961	4327.267
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	100.0000	100.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 06/11/10 10:30:41
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	199.8402	234628.4	490.4762	484.2063	243908.7	931.1567	475.4164
SDEV	3.9296	3623.5	6.9475	1.7212	1550.0	4.3329	3.9020
%RSD	1.966376	1.544339	1.416482	.3554774	.6354773	.4653283	.8207454
#1	204.0630	230780.3	482.4915	485.3839	245659.9	936.0541	476.2186
#2	196.2908	237975.0	493.7965	485.0041	243353.2	929.5950	478.8548
#3	199.1669	235129.9	495.1405	482.2309	242713.0	927.8212	471.1756
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	92.20000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	503.7866	521.1509	93719.34	-1425.52	252178.8	500.1401	872.8276
SDEV	8.6620	3.7528	943.20	13.68	2990.4	5.5940	249.1164
%RSD	1.719370	.7200983	1.006404	.9597557	1.185836	1.118477	28.54130
#1	506.7324	525.3518	93933.41	-1409.77	251011.0	498.9422	1159.610
#2	510.5915	519.9714	94537.11	-1434.43	255576.8	506.2360	710.0516
#3	494.0360	518.1295	92687.52	-1432.36	249948.3	495.2421	748.8212
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	957.9349	110.6267	480.8094	919.4840	53.85581	49.52129	600.9813
SDEV	5.3545	2.8837	5.0750	14.9638	2.74317	.39964	2.5857
%RSD	.5589588	2.606729	1.055520	1.627415	5.093536	.8070040	.4302494
#1	963.4937	111.9913	482.0292	936.5664	50.71285	49.06218	603.9518
#2	957.4998	112.5748	485.1633	913.1928	55.08626	49.71052	599.7571
#3	952.8113	107.3139	475.2356	908.6930	55.76833	49.79117	599.2351
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	20.60000	98.80000	205.6000	12.20000	10.60000	117.8000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	104.6352	42.61185	59.46523	67.93946	40.32326	1002.858	993.8635
SDEV	5.1201	14.85199	11.49554	22.72840	11.94181	6.801	3.6736
%RSD	4.893304	34.85412	19.33152	33.45390	29.61518	.6781629	.3696313
#1	110.5460	59.75331	46.19535	94.17624	26.53628	1010.387	994.6736
#2	101.5665	33.58356	65.81729	54.26984	47.43147	1001.030	997.0644
#3	101.7931	34.49869	66.38306	55.37231	47.00203	997.1583	989.8524
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	101.0000					1000.000	1000.000
RANGE	20.20000					200.0000	200.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	966.8424	969.3399	4387.977
SDEV	4.8497	1.7196	82.475
%RSD	.5016013	.1774013	1.879578
#1	967.5119	969.5069	4474.066
#2	971.3226	970.9700	4309.667
#3	961.6928	967.5429	4380.200
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	200.0000	200.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 10:37:49
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	102.4309	47069.55	968.7883	1027.901	49156.48	979.5228	1002.532
SDEV	1.6761	331.45	3.8253	4.295	428.66	5.4929	5.181
%RSD	1.636286	.7041770	.3948561	.4178281	.8720214	.5607781	.5167520
#1	103.6750	46699.94	964.5581	1029.293	49424.04	978.3091	1003.228
#2	103.0929	47168.28	972.0044	1031.327	49383.34	985.5211	1007.330
#3	100.5250	47340.41	969.8024	1023.083	48662.07	974.7382	997.0392
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	994.5686	1000.789	24796.97	50325.86	50393.88	1009.718	49340.85
SDEV	6.3639	4.874	137.65	674.73	153.02	5.306	378.89
%RSD	.6398613	.4870457	.5551000	1.340717	.3036499	.5254546	.7679096
#1	999.2322	1004.699	24841.97	49578.64	50289.78	1011.201	48917.03
#2	997.1549	1002.340	24906.48	50508.38	50569.57	1014.124	49458.70
#3	987.3188	995.3279	24642.45	50890.54	50322.29	1003.828	49646.81
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	977.0360	978.3931	1007.061	1067.194	971.5490	989.2875	990.9059
SDEV	7.3207	8.4380	6.526	13.125	8.3250	1.0446	12.3310
%RSD	.7492719	.8624323	.6479841	1.229888	.8568799	.1055959	1.244421
#1	971.9105	968.6528	1009.593	1072.484	968.6255	988.1615	977.1644
#2	985.4202	983.4734	1011.941	1076.849	980.9415	990.2252	1001.007
#3	973.7773	983.0531	999.6490	1052.249	965.0801	989.4759	994.5467
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1016.257	964.1185	975.2560	985.9522	990.9502	1025.575	976.4695
SDEV	8.211	8.7555	8.2482	2.7421	2.9318	4.029	7.6146
%RSD	.8079477	.9081308	.8457474	.2781186	.2958534	.3928328	.7798099
#1	1007.542	963.0566	971.4028	988.7846	987.8480	1023.517	968.2642
#2	1023.848	973.3564	984.7256	983.3103	993.6750	1022.990	983.3084
#3	1017.380	955.9424	969.6396	985.7618	991.3276	1030.217	977.8359
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1015.133	994.0777	4633.200
SDEV	12.364	4.8091	70.582
%RSD	1.217974	.4837713	1.523387
#1	1005.507	991.2129	4708.533
#2	1029.077	999.6298	4622.466
#3	1010.814	991.3903	4568.600
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 10:44:59
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2739101	40.95726	.2921254	.5850620	395.1053	.2956339	.3208009
SDEV	.1711938	39.73665	.2634491	.4501557	32.0556	.6651913	1.439136
%RSD	62.50000	97.01980	90.18356	76.94154	8.113192	225.0051	448.6072
#1	.2739101	10.40915	.1150335	.4358746	366.8566	-.437211	-1.24042
#2	.1027163	85.88112	.5948774	1.090872	429.9437	.8612624	1.594417
#3	.4451039	26.58150	.1664652	.2284394	388.5156	.4628505	.6084059
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6923424	-.102328	17.70870	-1424.09	31.75535	.2041454	52.23008
SDEV	.5720843	.218170	12.30171	19.73	39.30279	.2898110	75.39507
%RSD	82.63026	213.2063	69.46703	1.385161	123.7674	141.9630	144.3518
#1	.2708553	-.317755	7.854569	-1437.95	-3.01933	-.083133	32.01923
#2	1.343588	.1184848	31.49602	-1401.51	74.39641	.4964241	135.6707
#3	.4625840	-.107714	13.77551	-1432.82	23.88898	.1991453	-10.9997
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0421407	.0593832	.2137617	.6264877	.2318627	1.938999	3.282663
SDEV	.3821129	1.113622	.2566329	.6453217	1.171906	2.438804	.515963
%RSD	906.7545	1875.313	120.0556	103.0063	505.4310	125.7764	15.71782
#1	-.237577	-.383755	-.035813	.4739066	-.012661	2.333736	3.744528
#2	-.113515	1.326359	.4769139	1.334426	1.506738	4.156356	3.377656
#3	.4775140	-.764454	.2001840	.0711301	-.798490	-.673095	2.725804
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1838529	2.183470	-.745115	.9048459	2.452663	.1514732	.8344355
SDEV	2.563226	1.622901	1.259228	1.265105	3.155666	.5917561	1.741591
%RSD	1394.172	74.32671	168.9978	139.8144	128.6628	390.6671	208.7149
#1	-2.68553	3.129280	-1.58395	1.891562	2.551821	.7422516	.4381204
#2	.9899805	3.111596	.7028562	1.344378	5.557581	.1534240	2.740030
#3	2.247111	.3095328	-1.35426	-.521402	-.751413	-.441256	-.674844
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.576873	.1877038	4576.777
SDEV	.775640	.3721435	81.376
%RSD	30.10004	198.2611	1.778023
#1	3.250570	-.153611	4517.066
#2	2.751119	.5844561	4543.800
#3	1.728931	.1322664	4669.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: LRS OPERATOR:
RUN TIME: 06/11/10 10:55:21
COMMENT: SDG:LRS CLIENTID:LRS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.964620	207.8920	185.1643	5.236400	4769.827	4.807436	5.573231
SDEV	.280256	25.8191	1.6017	.261622	30.918	.302323	.555371
%RSD	5.645071	12.41947	.8650185	4.996217	.6482075	6.288663	9.964976
#1	5.204291	185.9146	184.8511	4.939775	4802.189	4.769778	5.036515
#2	4.656471	201.4345	183.7423	5.335149	4766.704	4.525706	6.145545
#3	5.033098	236.3270	186.8994	5.434274	4740.589	5.126825	5.537634
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	300.0000	300.0000	7.500000	7500.000	7.500000	7.500000
LOW	2.500000	100.0000	100.0000	2.500000	2500.000	2.500000	2.500000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.754917	4.841728	75.99686	4444.734	4748.915	9.568942	4397.913
SDEV	.142370	.177972	11.15929	69.858	10.285	.023937	22.096
%RSD	1.459465	3.675797	14.68388	1.571696	.2165675	.2501557	.5024216
#1	9.754091	4.852500	70.17239	4364.070	4737.185	9.596049	4382.327
#2	9.612962	4.658615	68.95489	4484.914	4756.385	9.560067	4423.200
#3	9.897697	5.014070	88.86330	4485.219	4753.175	9.550710	4388.212
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	15.00000	7.500000	150.0000	7500.000	7500.000	15.00000	7500.000
LOW	5.000000	2.500000	50.00000	2500.000	2500.000	5.000000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.337708	13.25040	19.02143	19.87954	3.487842	6.977402	11.23668
SDEV	.319330	3.10521	.12823	.54803	.278345	2.036573	1.63049
%RSD	5.982527	23.43487	.6741177	2.756747	7.980443	29.18813	14.51044
#1	5.681050	14.60415	19.06958	20.03775	3.789043	H8.695612	10.30880
#2	5.049595	9.698132	18.87609	19.26981	3.240110	H7.508780	10.28189
#3	5.282479	H15.44891	19.11861	20.33106	3.434374	4.727813	13.11934
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	15.00000	30.00000	30.00000	4.500000	7.500000	15.00000
LOW	2.500000	5.000000	10.00000	10.00000	1.500000	2.500000	5.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.91682	2.547436	3.954679	6.024655	7.450398	18.93564	18.75938
SDEV	1.95188	.832225	.328478	3.040812	1.908460	.81256	1.18181
%RSD	14.02533	32.66914	8.306066	50.47281	25.61555	4.291193	6.299820
#1	14.46817	2.924748	4.217909	9.452273	8.315213	18.91780	19.83312
#2	11.74856	1.593387	4.059560	4.970476	8.773352	18.13215	18.95187
#3	H15.53372	3.124172	3.586568	3.651215	5.262630	19.75698	17.49314
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	15.00000					30.00000	30.00000
LOW	5.000000					10.00000	10.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	19.38641	18.84983	4534.400
SDEV	.49995	.08479	41.103
%RSD	2.578874	.4498419	.9064782
#1	19.05781	18.76150	4581.800
#2	19.13966	18.85739	4508.600
#3	19.96177	18.93059	4512.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	30.00000	30.00000	
LOW	10.00000	10.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005064-14 OPERATOR:
RUN TIME: 06/11/10 11:02:29
COMMENT: SDG:1005064 CLIENTID:SDZ-WN03 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3081488	16.48993	.9744000	.3629975	20019.18	.7244642	2.207438
SDEV	.1492433	3.15206	.0132050	.0482467	80.69	.0762188	.310845
%RSD	48.43221	19.11507	1.355196	13.29118	.4030868	10.52071	14.08172
#1	.2396713	16.52461	.9654794	.4005759	20062.55	.6454910	2.353583
#2	.4793426	13.32067	.9681510	.3798262	20068.92	.7975919	2.418278
#3	.2054325	19.62450	.9895697	.3085903	19926.08	.7303098	1.850454
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.189069	.4362402	L-225.202	23013.24	58712.66	2.294667	469553.9
SDEV	.210325	.1779720	13.161	245.68	190.25	.079717	2430.8
%RSD	111.2423	40.79679	5.843894	1.067544	.3240334	3.474032	.5176808
#1	-.424629	.2638988	L-238.957	23246.72	58856.79	2.269220	471400.8
#2	-.122477	.4254685	L-223.921	23036.04	58784.17	2.230780	470460.9
#3	-.020101	.6193535	L-212.729	22756.96	58497.02	2.384001	466800.0
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6244875	1.426726	.6184366	1.768128	-.324047	.9068685	.8535792
SDEV	.2736640	1.559489	.2733622	.383059	.455306	1.009732	.9113986
%RSD	43.82217	109.3055	44.20214	21.66467	140.5063	111.3427	106.7738
#1	.9097120	-.367880	.9243621	2.210424	-.174212	1.242532	1.616790
#2	.3640736	2.452678	.5328096	1.550834	-.835388	1.706019	-.155545
#3	.5996770	2.195380	.3981381	1.543125	.0374599	-.227946	1.099492
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.665491	3.690543	-2.33100	-.141245	1.427469	-1.43845	1.093524
SDEV	1.077996	2.084907	.51377	.207570	1.615719	1.74746	1.495073
%RSD	64.72541	56.49323	22.04084	146.9574	113.1877	121.4824	136.7206
#1	.6912061	5.294879	-2.90736	-.252143	1.986049	-.035549	.7878160
#2	1.481701	1.333892	-1.92107	-.269812	2.689782	-3.39590	-.225066
#3	2.823568	4.442857	-2.16458	.0982192	-.393424	-.883903	2.717823
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.4052333	-.878757	4521.088
SDEV	.8812769	.134176	50.964
%RSD	217.4739	15.26888	1.127256
#1	-.588742	-1.02430	4471.667
#2	1.091055	-.851993	4518.133
#3	.7133874	-.759979	4573.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005064-15 OPERATOR:
RUN TIME: 06/11/10 11:09:38
COMMENT: SDG:1005064 CLIENTID:SDZ-WN30 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1826067	13.77385	.8394393	.3800685	25933.91	.6952684	2.251994
SDEV	.3106747	4.88741	.0883200	.2594146	492.26	.1712518	.703823
%RSD	170.1332	35.48329	10.52131	68.25470	1.898118	24.63104	31.25334
#1	.1369550	9.502348	.7848190	.0843034	26502.02	.8862224	3.056204
#2	-.102716	19.10374	.7921646	.5690386	25665.73	.5552984	1.951390
#3	.5135814	12.71546	.9413343	.4868633	25633.97	.6442845	1.748388
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.051236	1.066365	L-223.177	33435.32	82466.11	3.237454	638872.6
SDEV	1.256135	.266632	38.887	933.07	173.93	.279806	7903.4
%RSD	2451.686	25.00384	17.42417	2.790667	.2109140	8.642764	1.237080
#1	1.246836	1.362577	L-183.576	32367.37	82474.27	3.519498	629808.3
#2	-.139795	.9909649	L-224.648	33845.89	82635.82	3.232922	642487.4
#3	-1.26075	.8455518	L-261.308	34092.70	82288.24	2.959942	644322.2
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9781753	1.710358	-.048515	1.329891	-.528927	.9241220	.7608786
SDEV	1.284603	2.182441	.417149	1.218678	.365691	.7196216	3.532396
%RSD	131.3265	127.6014	859.8369	91.63748	69.13819	77.87084	464.2523
#1	2.454481	-.266525	-.217986	2.408760	-.153430	1.334318	4.043177
#2	.1151405	4.052313	-.354257	1.572894	-.549402	1.344851	1.216802
#3	.3649042	1.345287	.4266986	.0080187	-.883951	.0931968	-2.97734
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.441329	4.004966	-2.79521	4.161783	-.695015	-1.76921	-1.25565
SDEV	2.868301	6.361665	3.62787	5.459956	3.652250	.84910	.78472
%RSD	199.0040	158.8444	129.7888	131.1927	525.4924	47.99297	62.49515
#1	3.934730	.8359381	-.650034	4.892197	-.444616	-.864152	-1.99099
#2	2.082579	-.149748	-.751692	-1.62661	2.825592	-1.89522	-1.34651
#3	-1.69332	11.32871	-6.98390	9.219766	-4.46602	-2.54826	-.429455
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.7716392	-1.10412	4419.222
SDEV	.5611283	.34965	101.719
%RSD	72.71899	31.66766	2.301748
#1	.1272636	-.753317	4536.267
#2	1.152564	-1.10645	4369.200
#3	1.035091	-1.45261	4352.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005064-17 OPERATOR:
RUN TIME: 06/11/10 11:16:46
COMMENT: SDG:1005064 CLIENTID:SDZ-WN10 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2853230	36.94000	.7695385	1.289966	25722.05	.4294245	1.824023
SDEV	.3817788	4.36390	.0542686	.146571	130.74	.1633629	.199179
%RSD	133.8058	11.81347	7.052094	11.36241	.5082666	38.04228	10.91974
#1	.0000000	41.66643	.7468293	1.439188	25596.60	.5957939	2.053776
#2	.7190139	33.06377	.8314727	1.284512	25712.05	.2692441	1.700081
#3	.1369550	36.08979	.7303134	1.146198	25857.50	.4232355	1.718211
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.232386	-.166956	L-246.991	37144.20	84479.98	-.641809	675303.5
SDEV	.324693	.102611	14.449	883.37	356.92	.174008	8182.2
%RSD	139.7217	61.45984	5.850076	2.378222	.4224897	27.11212	1.211636
#1	.0435946	-.107714	L-231.520	37900.04	84866.02	-.444943	682947.4
#2	-.590152	-.285441	L-260.136	37359.46	84411.92	-.775050	676290.6
#3	-.150599	-.107714	L-249.317	36173.09	84161.98	-.705436	666672.5
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.155825	3.156342	.3776669	1.056092	-.756511	.4438454	.4409045
SDEV	.568029	1.354605	.3414122	.263243	.634290	1.265330	.1628214
%RSD	364.5302	42.91692	90.40035	24.92613	83.84418	285.0834	36.92896
#1	.2305913	3.043178	.0721490	.9044784	-1.11835	1.357963	.6257731
#2	-.808020	4.563979	.7461952	.9037396	-1.12707	.9738793	.3188305
#3	.1099536	1.861869	.3146566	1.360059	-.024113	-1.00031	.3781098
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.064274	1.878180	-2.07477	-2.05510	1.688560	.8230075	1.866740
SDEV	1.593566	3.656447	2.38408	4.15314	2.796635	2.214896	1.000057
%RSD	77.19743	194.6803	114.9081	202.0889	165.6225	269.1222	53.57236
#1	3.834756	-.589345	-1.38540	-5.76682	4.912078	1.616052	1.664887
#2	1.613195	6.078944	-4.72757	2.430567	.2437276	2.532210	2.952327
#3	.7448698	.1449409	-.111339	-2.82906	-.090127	-1.67924	.9830070
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.4170111	-1.23939	4181.711
SDEV	.2190761	.14681	82.342
%RSD	52.53483	11.84512	1.969103
#1	.6097912	-1.08913	4110.200
#2	.4624703	-1.38248	4163.200
#3	.1787718	-1.24655	4271.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005064-20 OPERATOR:
RUN TIME: 06/11/10 11:23:54
COMMENT: SDG:1005064 CLIENTID:SDZ-WN18 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.228258	23.29126	.6261595	.5697613	28890.33	.5125868	2.247624
SDEV	.188572	4.69691	.1216622	.0469670	190.96	.1103044	.512297
%RSD	82.61356	20.16597	19.42991	8.243275	.6609986	21.51918	22.79284
#1	-.445104	18.27895	.5738836	.5383777	28686.13	.3857926	1.899156
#2	-.102716	27.59143	.5393721	.5471491	29064.50	.5864482	2.835834
#3	-.136955	24.00342	.7652227	.6237572	28920.36	.5655196	2.007882
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.33938	2.046559	L-168.089	33111.77	82780.63	1.690074	645290.1
SDEV	.91387	1.142628	43.402	205.73	493.74	.378577	1355.9
%RSD	68.23088	55.83167	25.82068	.6213106	.5964407	22.40004	.2101156
#1	-2.39270	1.217164	L-217.186	32962.88	82226.54	1.255451	644433.1
#2	-.868073	1.572619	L-134.833	33346.52	83173.91	1.866792	646853.2
#3	-.757380	3.349894	L-152.247	33025.91	82941.45	1.947979	644583.8
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.177242	.9125909	-.294776	.4539744	-1.07569	.3737468	-1.99332
SDEV	1.392829	1.880016	.541659	.9809364	.26788	1.725713	3.66112
%RSD	785.8344	206.0086	183.7529	216.0775	24.90289	461.7332	183.6696
#1	-1.75947	3.069730	-.620248	-.671172	-.786963	-1.55880	-6.03633
#2	.3641201	-.376979	-.594583	1.129551	-1.12394	.9192515	1.097918
#3	.8636282	.0450219	.3305029	.9035450	-1.31616	1.760785	-1.04154
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0876637	3.001315	-3.11392	2.677600	-.779245	-4.60245	-2.73928
SDEV	3.417538	5.763184	2.59272	.609608	2.870982	.54960	1.55399
%RSD	3898.465	192.0220	83.26219	22.76694	368.4313	11.94138	56.72986
#1	-3.84202	9.215505	-5.78348	3.374147	-4.02436	-5.14502	-4.00308
#2	2.365144	-2.16786	-.605566	2.241356	.2563860	-4.61622	-3.21054
#3	1.739870	1.956299	-2.95272	2.417297	1.430235	-4.04609	-1.00421
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.291161	-1.40041	4325.733
SDEV	.923635	.57903	15.485
%RSD	317.2248	41.34719	.3579691
#1	-1.33598	-2.06870	4335.267
#2	.0458821	-1.04848	4307.866
#3	.4166181	-1.08404	4334.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-01 OPERATOR:
RUN TIME: 06/11/10 11:31:02
COMMENT: SDG:1005078 CLIENTID:SDZ-SW03 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0114129	76.38051	.9809994	.3890145	20004.32	.5531566	2.253201
SDEV	.2951955	4.54031	.1087596	.1847638	236.79	.0730580	.450719
%RSD	2586.503	5.944331	11.08661	47.49535	1.183674	13.20747	20.00351
#1	.2739101	71.20551	.9319608	.1768917	20178.27	.5097210	2.672988
#2	.0684775	78.24072	1.105644	.5148397	20100.03	.6375041	2.309732
#3	-.308149	79.69529	.9053935	.4753120	19734.66	.5122447	1.776883
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2307151	.5978103	L-179.051	24613.75	62497.49	-.365589	497781.6
SDEV	.4532977	.2365413	11.475	608.71	438.13	.138146	5427.8
%RSD	196.4751	39.56795	6.408920	2.473043	.7010391	37.78732	1.090392
#1	.7541339	.8132375	L-165.977	23930.96	61997.18	-.218102	491517.5
#2	-.029173	.6355101	L-183.722	24810.67	62682.63	-.491965	500734.3
#3	-.032816	.3446831	L-187.454	25099.62	62812.66	-.386700	501092.8
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6592349	.0741944	.2940272	1.984126	.1642561	-.462528	-.143556
SDEV	.5256783	.5359825	.2105658	.414847	.8764361	1.829066	1.772308
%RSD	79.74067	722.4028	71.61441	20.90831	533.5790	395.4501	1234.576
#1	1.249944	.6842539	.5371588	2.393215	-.803690	1.623176	1.806669
#2	.2429047	-.140570	.1706690	1.995412	.3923969	-1.21752	-.581506
#3	.4848565	-.321101	.1742536	1.563750	.9040616	-1.79324	-1.65583
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.770233	.4120269	.0378675	-4.25075	1.426055	.4960182	1.368975
SDEV	1.956548	2.745042	1.340221	1.60341	2.020904	2.691743	2.015619
%RSD	70.62756	666.2288	3539.242	37.72052	141.7129	542.6702	147.2356
#1	4.616515	-.310161	-1.05272	-2.66110	3.759466	-1.55106	1.402534
#2	.7194782	-1.89972	1.534033	-4.22359	.2805584	3.545040	3.367605
#3	2.974707	3.445964	-.367710	-5.86757	.2381420	-.505922	-.663214
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.107484	2.129612	4491.088
SDEV	.416801	.174534	79.539
%RSD	387.7798	8.195579	1.771036
#1	.1189217	2.261840	4581.133
#2	-.588489	2.195213	4461.733
#3	.1471154	1.931782	4430.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051443-DUP1 OPERATOR:
RUN TIME: 06/11/10 11:38:10
COMMENT: SDG:1005078 CLIENTID:SDZ-SW03D 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4793426	67.43452	.9897808	1.111961	18956.66	.2620191	1.107996
SDEV	.1811745	11.57736	.0475381	.316294	387.76	.0756863	.299716
%RSD	37.79645	17.16830	4.802893	28.44468	2.045513	28.88579	27.05029
#1	.6847752	68.45668	1.032206	1.220484	18510.57	.1852888	.7619166
#2	.3423876	78.46691	.9384031	1.359708	19146.36	.3366163	1.282255
#3	.4108651	55.37997	.9987329	.7556916	19213.05	.2641523	1.279817
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.465086	2.078873	L-198.192	25644.65	61651.68	-.239750	501312.6
SDEV	.483443	.262687	4.845	499.43	755.62	.157878	3902.3
%RSD	103.9470	12.63603	2.444485	1.947517	1.225623	65.85118	.7784262
#1	-.885491	2.025017	L-200.389	25865.44	61097.29	-.175256	501936.6
#2	-.572944	1.847288	L-201.548	25995.63	62512.35	-.419665	504865.4
#3	.0631761	2.364315	L-192.638	25072.87	61345.40	-.124329	497135.9
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6133800	3.805587	.5092691	2.946308	-.311076	.6145912	.0590246
SDEV	.2480151	2.104914	.4410095	.356862	1.352037	1.340959	1.558037
%RSD	40.43417	55.31117	86.59656	12.11216	434.6328	218.1871	2639.638
#1	.6175082	2.706925	1.010922	2.739091	.7801851	.3694280	-1.73527
#2	.3633265	2.477320	.3342572	2.741459	.1101787	2.061217	.8427336
#3	.8593051	6.232515	.1826282	3.358374	-1.82359	-.586871	1.069607
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.059045	2.400248	-1.66753	-3.28228	2.557287	1.495111	1.785239
SDEV	.672006	2.283219	1.21031	1.16914	1.835963	2.088222	1.067200
%RSD	63.45390	95.12427	72.58122	35.61984	71.79338	139.6700	59.77912
#1	1.437971	4.955828	-1.30735	-2.17164	1.635212	3.233414	.7602139
#2	.2831500	1.683571	-.678186	-3.17296	4.671532	-.821245	1.705376
#3	1.456014	.5613462	-3.01704	-4.50225	1.365117	2.073164	2.890127
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.271905	-.240192	4281.600
SDEV	.736459	.075174	71.443
%RSD	57.90199	31.29758	1.668616
#1	1.846811	-.213695	4242.267
#2	.4417891	-.325028	4238.466
#3	1.527116	-.181855	4364.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005078-01 OPERATOR:
RUN TIME: 06/11/10 11:45:18
COMMENT: SDG:1005078 CLIENTID:SDZ-SW03L 1:75
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1597809	11.00172	.1523349	-.137195	4274.293	.1588242	1.106093
SDEV	.2227713	6.04299	.0506994	.206952	38.589	.2739342	.356338
%RSD	139.4230	54.92770	33.28153	150.8455	.9028136	172.4764	32.21589
#1	.1711938	6.465331	.1081152	-.226462	4249.577	.1327719	.7288885
#2	-.068478	17.86161	.1412200	.0994095	4254.542	.4448538	1.437047
#3	.3766263	8.678225	.2076697	-.284532	4318.759	-.101153	1.152343
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6508619	1.653404	-68.9621	3463.420	12607.68	.0124696	103272.2
SDEV	.2836076	.287214	11.6054	22.692	75.68	.0562094	286.9
%RSD	43.57417	17.37108	16.82862	.6551880	.6002802	450.7709	.2777777
#1	.3680422	1.750346	-60.5028	3452.023	12521.84	.0447125	102943.2
#2	.9352509	1.330263	-82.1926	3489.552	12636.42	.0451314	103470.5
#3	.6492924	1.879603	-64.1910	3448.686	12664.78	-.052435	103402.8
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6692705	.8166299	-.154818	1.594238	-.408053	.6094880	1.869859
SDEV	.1831868	.6367242	.070888	.432146	.424923	1.645253	1.399572
%RSD	27.37112	77.96974	45.78785	27.10671	104.1342	269.9402	74.84905
#1	.8783779	1.546282	-.193969	1.110813	-.520649	2.464633	.7225474
#2	.5370946	.3735495	-.197496	1.943072	.0618278	.0364371	1.457838
#3	.5923389	.5300583	-.072989	1.728830	-.765339	-.672606	3.429191
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0997525	1.914650	-1.57022	-1.65042	1.735190	.6008567	1.869430
SDEV	.4475978	.825261	.90967	1.81101	1.619442	1.078975	.938324
%RSD	448.7084	43.10247	57.93237	109.7302	93.32938	179.5727	50.19308
#1	.4017573	1.205845	-1.38516	.1815565	3.601906	1.036203	1.437120
#2	-.414483	1.717460	-.767320	-1.69311	.8973427	1.394144	2.945982
#3	.3119836	2.820644	-2.55819	-3.43972	.7063217	-.627777	1.225187
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.287880	.3619936	4715.555
SDEV	.266274	.1859790	20.352
%RSD	92.49484	51.37633	.4315901
#1	-.136314	.3891717	4726.667
#2	-.131989	.1639209	4692.066
#3	-.595337	.5328882	4727.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-02 OPERATOR:
RUN TIME: 06/11/10 11:52:26
COMMENT: SDG:1005078 CLIENTID:SDZ-WN12 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3538005	16.02989	.9176009	.2670863	30577.92	.6653804	2.416986
SDEV	.4402489	7.46420	.0870141	.1928680	508.77	.0234480	.087625
%RSD	124.4342	46.56424	9.482781	72.21185	1.663841	3.524000	3.625370
#1	.0342388	20.16105	.9178343	.3592771	30495.66	.6421248	2.316383
#2	.1711938	20.51522	.8304703	.3965576	30115.29	.6650002	2.476636
#3	.8559690	7.413404	1.004498	.0454241	31122.80	.6890162	2.457937
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4996627	1.254864	L-229.782	35810.83	87013.39	5.818695	665739.9
SDEV	.4043657	.417069	14.371	351.24	483.30	.114391	1907.1
%RSD	80.92774	33.23619	6.254253	.9808215	.5554326	1.965925	.2864653
#1	.0645287	1.055594	L-246.253	36043.66	87317.09	5.706190	667137.6
#2	.5705824	.9748082	L-219.800	35982.02	86456.07	5.815013	666514.8
#3	.8638769	1.734190	L-223.292	35406.82	87267.00	5.934883	663567.3
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7893575	1.857791	.5063138	1.642286	-.566671	1.031680	2.456403
SDEV	1.342204	3.571035	.8555628	.261058	1.150150	.141689	.599955
%RSD	170.0375	192.2194	168.9787	15.89598	202.9660	13.73383	24.42412
#1	-.748773	-.622325	-.229278	1.793523	-.342011	1.133717	2.642138
#2	1.723126	.2449455	.3029995	1.792493	-1.81258	.8699042	1.785545
#3	1.393720	5.950753	1.445220	1.340844	.4545727	1.091419	2.941526
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7630559	1.514770	-1.60857	-2.72111	2.902528	1.335453	1.341741
SDEV	1.099074	4.156725	.46844	.71313	.322494	2.166184	4.457468
%RSD	144.0359	274.4129	29.12180	26.20730	11.11080	162.2059	332.2151
#1	.6414385	1.542164	-1.28544	-3.06598	3.227660	1.249606	-1.34523
#2	-.270151	-2.65558	-1.39445	-3.19626	2.897189	-.786531	-1.11663
#3	1.917881	5.657730	-2.14581	-1.90111	2.582738	3.543284	6.487089
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.7189501	-.945669	4414.200
SDEV	.7231618	.096920	50.033
%RSD	100.5858	10.24884	1.133448
#1	.6520554	-1.05705	4381.533
#2	.0315600	-.880521	4389.267
#3	1.473235	-.899437	4471.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-03 OPERATOR:
RUN TIME: 06/11/10 11:59:35
COMMENT: SDG:1005078 CLIENTID:SDZ-WN15 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2396713	75.12016	1.373703	1.288736	35570.56	.4894183	2.295110
SDEV	.0342388	7.27858	.062040	.205808	292.26	.1274694	.097089
%RSD	14.28572	9.689248	4.516293	15.96977	.8216345	26.04508	4.230271
#1	.2739101	72.93081	1.302709	1.209893	35244.06	.3526733	2.210104
#2	.2054325	83.24213	1.417498	1.522309	35659.89	.6049506	2.274313
#3	.2396713	69.18755	1.400903	1.134005	35807.73	.5106311	2.400912
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.348979	-.193885	L-189.815	43704.46	95634.27	9.584554	H747192.5
SDEV	.339924	.219958	17.851	841.80	1207.06	.174470	7147.6
%RSD	97.40539	113.4477	9.404181	1.926116	1.262159	1.820327	.9565931
#1	-.059767	.0538571	L-178.609	43455.69	94668.43	9.474676	H745689.1
#2	-.723401	-.366226	L-180.435	44642.61	96987.45	9.785728	H754972.2
#3	-.263767	-.269284	L-210.400	43015.09	95246.95	9.493256	H740916.2
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5862564	1.632447	.3122766	1.145099	-.752806	1.395178	.5099105
SDEV	.5862044	2.822897	.3198959	.475386	.493218	2.800057	2.379931
%RSD	99.99110	172.9243	102.4399	41.51483	65.51730	200.6953	466.7351
#1	1.147948	-.466243	-.056263	1.139166	-1.22918	3.390846	3.060584
#2	.6325383	.5218432	.5181669	1.623424	-.244311	2.600366	.1203614
#3	-.021717	4.841739	.4749256	.6727072	-.784930	-1.80568	-1.65121
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0495658	-.131690	-1.06582	.4489239	1.864677	-.385734	1.971280
SDEV	1.464885	3.753300	1.19138	2.849333	3.628328	1.056597	.290034
%RSD	2955.435	2850.104	111.7809	634.7029	194.5821	273.9188	14.71297
#1	1.330828	-4.30919	.3056083	3.725258	3.220978	.4470250	1.642403
#2	-1.54745	2.956385	-1.84523	-1.44986	4.619470	-1.57431	2.190485
#3	.3653161	.9577323	-1.65782	-.928623	-2.24642	-.029920	2.080953
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.3397573	-.475620	4137.600
SDEV	.4566037	.128943	74.958
%RSD	134.3911	27.11043	1.811632
#1	-.186768	-.375233	4146.800
#2	.6267956	-.430587	4058.466
#3	.5792443	-.621040	4207.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 12:06:43
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	100.7532	47058.65	978.6085	1011.857	48076.82	972.6531	994.5067
SDEV	.3629	925.96	18.2651	17.921	905.05	20.5195	16.8888
%RSD	.3601723	1.967664	1.866434	1.771080	1.882515	2.109642	1.698213
#1	100.4223	46402.11	961.8074	995.9758	47195.79	953.7527	976.4644
#2	100.6962	48117.75	998.0502	1031.287	49004.12	994.4779	1009.938
#3	101.1413	46656.09	975.9680	1008.310	48030.56	969.7287	997.1176
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	967.8270	994.0353	24381.52	51647.23	49845.90	991.0005	49670.02
SDEV	26.7626	5.1715	538.66	829.37	1053.16	24.6028	826.44
%RSD	2.765229	.5202498	2.209304	1.605843	2.112842	2.482620	1.663863
#1	938.3166	988.5581	23815.96	50930.36	48757.49	964.8339	48912.38
#2	990.5253	998.8341	24888.49	52555.61	50859.87	1013.664	50551.32
#3	974.6389	994.7139	24440.09	51455.75	49920.36	994.5036	49546.36
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	969.8997	976.8849	987.8962	1041.333	966.8347	988.0039	996.2900
SDEV	18.5764	14.3030	19.7288	16.206	14.8720	13.7975	23.5715
%RSD	1.915291	1.464143	1.997052	1.556305	1.538213	1.396502	2.365932
#1	952.7167	962.3541	971.4215	1024.781	956.9675	975.3890	970.4814
#2	989.6106	990.9486	1009.759	1057.170	983.9401	1002.739	1016.681
#3	967.3716	977.3520	982.5077	1042.046	959.5964	985.8839	1001.707
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1013.305	965.5404	967.4781	990.5949	986.7077	1015.724	981.1286
SDEV	12.238	19.5001	12.6896	17.8143	12.2231	18.165	16.0013
%RSD	1.207775	2.019608	1.311618	1.798342	1.238776	1.788379	1.630912
#1	1001.893	950.4524	960.2174	971.8068	977.1749	999.5242	966.6156
#2	1026.229	987.5592	982.1306	1007.242	1000.488	1035.362	998.2883
#3	1011.792	958.6097	960.0863	992.7363	982.4603	1012.284	978.4819
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1008.375	987.1732	4553.266
SDEV	21.810	19.0504	62.428
%RSD	2.162901	1.929789	1.371050
#1	986.9888	969.5840	4602.333
#2	1030.586	1007.408	4482.999
#3	1007.550	984.5276	4574.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 12:13:53
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L.	UG/L	UG/L	UG/L
AVGE	.2510842	13.13903	.0575934	.0674903	377.6646	.3193062	1.124754
SDEV	.2523778	3.43020	.0507050	.1143834	1.1996	.1838733	.657758
%RSD	100.5152	26.10695	88.03961	169.4811	.3176439	57.58527	58.48016
#1	-.034239	17.06909	.1016419	.1949678	379.0324	.4795547	1.788112
#2	.4451039	11.60092	.0689726	-.026176	377.1698	.3598040	.4727429
#3	.3423876	10.74709	.0021656	.0336794	376.7914	.1185598	1.113407
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1810234	-.161571	7.505085	-1436.59	9.011091	.1635744	10.36525
SDEV	.4265890	.051938	11.38575	1.94	1.500297	.1399281	17.71045
%RSD	235.6541	32.14539	151.7071	.1348286	16.64945	85.54403	170.8636
#1	.2731004	-.123871	19.45225	-1436.05	7.532085	.0108667	-5.08507
#2	.5540547	-.220813	6.283798	-1434.98	10.53181	.2856465	29.69324
#3	-.284085	-.140028	-3.22079	-1438.74	8.969378	.1942100	6.487599
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.497198	4.133462	-.052071	.9724162	.3775463	.7435644	4.262975
SDEV	.260518	1.134866	.327361	.3122323	.5434890	.2028525	.199308
%RSD	52.39712	27.45557	628.6851	32.10892	143.9529	27.28109	4.675331
#1	-.796100	2.880964	.2011912	.9047446	.8128110	.7860093	4.297583
#2	-.318375	5.093412	.0643185	1.312935	-.231607	.9218363	4.048629
#3	-.377119	4.426010	-.421722	.6995690	.5514351	.5228478	4.442712
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7853864	.7171751	.2054370	-2.40085	2.310866	-1.92924	.2330792
SDEV	.7922716	.3441196	.9172630	4.09509	2.299419	2.77047	1.347915
%RSD	100.8767	47.98265	446.4936	170.5682	99.50467	143.6037	578.3077
#1	1.385133	.8145571	.8093556	-.412864	1.381964	.7030109	-.140191
#2	-.112753	1.002109	-.850069	-7.11044	4.929426	-1.67092	1.728293
#3	1.083779	.3348588	.6570247	.3207538	.6212076	-4.81983	-.888864
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.814538	.0379352	4735.400
SDEV	.638106	.0487537	54.712
%RSD	35.16631	128.5184	1.155386
#1	2.540200	.0253511	4672.733
#2	1.562343	-.003293	4773.667
#3	1.341071	.0917473	4759.800
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-04 OPERATOR:
RUN TIME: 06/11/10 12:21:02
COMMENT: SDG:1005078 CLIENTID:SDZ-WN13 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4793426	22.71951	.8227835	.6555187	27882.15	.8374965	2.717795
SDEV	.8735917	9.08558	.0844019	.1427013	296.60	.2338528	.176882
%RSD	182.2479	39.99019	10.25810	21.76921	1.063767	27.92284	6.508275
#1	1.472267	12.38651	.9189727	.4988200	28223.36	.9728376	2.591776
#2	-.171194	26.31453	.7611092	.6897345	27737.03	.5674669	2.920004
#3	.1369550	29.45749	.7882685	.7780017	27686.04	.9721851	2.641605
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.472042	-.086171	L-227.544	36822.65	89652.07	-1.80102	686911.8
SDEV	.290803	.094672	9.250	348.95	314.43	.11412	2455.5
%RSD	61.60521	109.8649	4.065162	.9476559	.3507222	6.336422	.3574663
#1	-.630462	-.123871	L-238.205	36484.78	89876.66	-1.91307	684602.1
#2	-.136427	-.156185	L-222.778	36801.45	89786.83	-1.80508	686642.4
#3	-.649238	.0215427	L-221.649	37181.71	89292.72	-1.68493	689490.8
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7590668	2.413158	.5125727	1.863860	.1820438	2.582237	2.144994
SDEV	.5024962	2.083920	.8178425	.120278	.4282583	.443700	1.212928
%RSD	66.19921	86.35654	159.5564	6.453156	235.2502	17.18278	56.54692
#1	.1836302	4.803331	1.456934	2.002693	-.202201	3.052337	1.933345
#2	.9823103	.9771833	.0385471	1.791168	.6437437	2.523608	3.449818
#3	1.111260	1.458960	.0422375	1.797718	.1045889	2.170766	1.051820
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.16433	5.449185	-2.45033	3.934620	1.904310	-.569117	1.576388
SDEV	2.46452	8.512585	4.82761	6.728169	2.706377	4.643741	.167349
%RSD	211.6696	156.2176	197.0188	170.9992	142.1185	815.9556	10.61597
#1	-4.00897	15.08777	-7.83845	11.49126	-1.16353	4.568906	1.706272
#2	.1882383	-1.03965	1.481429	1.718703	2.922708	-1.80964	1.387538
#3	.3277567	2.299437	-.993961	-1.40611	3.953749	-4.46661	1.635354
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.138779	-1.15074	4392.866
SDEV	.673374	.12905	36.203
%RSD	59.13126	11.21491	.8241293
#1	1.739161	-1.29161	4429.333
#2	1.266475	-1.03821	4392.333
#3	.4106991	-1.12241	4356.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-07 OPERATOR:
RUN TIME: 06/11/10 12:31:06
COMMENT: SDG:1005078 CLIENTID:SDZ-WN14 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2510842	122.2038	.9577448	.7410747	32113.22	.8377402	3.267811
SDEV	.1425473	5.3944	.0285682	.0883937	122.19	.1990248	.255523
%RSD	56.77271	4.414305	2.982861	11.92777	.3804843	23.75734	7.819379
#1	.1369550	128.4021	.9510869	.8327021	31972.13	.6592221	3.061801
#2	.4108651	119.6390	.9330934	.6563154	32182.92	1.052336	3.553742
#3	.2054325	118.5702	.9890540	.7342067	32184.59	.8016623	3.187891
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2356220	-.296213	L-104.214	33706.11	87434.59	2.391937	662861.8
SDEV	.3762994	.049361	1.445	242.69	108.17	.088006	1935.1
%RSD	159.7047	16.66388	1.386406	.7200276	.1237102	3.679268	.2919278
#1	-.031268	-.285441	L-103.904	33898.39	87494.59	2.417446	664302.7
#2	.6660158	-.350070	L-102.949	33786.54	87499.46	2.293994	663620.2
#3	.0721177	-.253128	L-105.788	33433.42	87309.73	2.464370	660662.3
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.119901	2.009813	.4949039	2.212902	-.297285	.3925937	.6282892
SDEV	.583958	1.670477	.4160359	.215940	.079867	.8678790	1.241175
%RSD	487.0334	83.11602	84.06397	9.758226	26.86552	221.0629	197.5484
#1	-.367250	2.373949	.3267069	2.000934	-.262504	-.240243	2.039197
#2	.5470234	3.468186	.9687051	2.432606	-.388644	1.381955	.1408277
#3	-.539476	.1873041	.1892997	2.205166	-.240705	.0360691	-.295157
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.560023	2.772182	-1.83242	1.422158	-.124121	-1.54213	1.012826
SDEV	.900751	.658265	.42913	5.490751	2.044135	2.31943	.730516
%RSD	57.73957	23.74536	23.41856	386.0858	1646.887	150.4041	72.12650
#1	1.160679	2.111281	-1.45034	-4.88703	2.076947	-4.14433	.2369318
#2	2.591407	3.427778	-2.29670	5.118938	-.486441	.3077254	1.687382
#3	.9279834	2.777489	-1.75023	4.034566	-1.96287	-.789779	1.114163
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.098772	.9865680	4465.622
SDEV	1.170814	.1126375	26.023
%RSD	1185.370	11.41711	.5827360
#1	.3896237	.8875266	4440.933
#2	.7487756	.9630796	4463.133
#3	-1.43472	1.109098	4492.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-08 OPERATOR:
RUN TIME: 06/11/10 12:38:14
COMMENT: SDG:1005078 CLIENTID:SDZ-WN11 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1255421	147.6039	1.246958	.3674574	33027.21	.9456162	2.864790
SDEV	.1296259	4.3201	.007006	.1264670	121.00	.2338649	.430896
%RSD	103.2529	2.926792	.5618281	34.41678	.3663589	24.73148	15.04109
#1	.0342388	142.6177	1.241088	.2222068	33164.94	.9405419	2.370547
#2	.2739101	150.2247	1.254714	.4531439	32978.64	1.181977	3.161549
#3	.0684775	149.9693	1.245073	.4270215	32938.04	.7143297	3.062273
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4323884	-.086171	L-137.602	33400.89	82668.08	9.462906	633893.8
SDEV	.4398588	.153563	17.363	81.27	584.64	.054876	554.6
%RSD	101.7277	178.2069	12.61795	.2433190	.7072159	.5799014	.0874861
#1	-.023141	-.091557	L-151.258	33423.57	83039.95	9.526247	634288.6
#2	.4656132	-.236970	L-143.486	33468.41	82970.09	9.432724	634132.9
#3	.8546927	.0700137	L-118.062	33310.69	81994.20	9.429746	633259.8
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.099714	1.358311	.4696245	2.406097	1.469973	1.463542	2.015053
SDEV	.190504	1.240336	.0726048	.369556	.469263	1.719626	1.262687
%RSD	17.32302	91.31458	15.46019	15.35914	31.92321	117.4975	62.66273
#1	.9607619	1.203023	.4232635	2.192354	.9641815	-.495931	2.832107
#2	1.021505	.2029317	.5532984	2.193114	1.554529	2.164955	.5607266
#3	1.316875	2.668980	.4323115	2.832823	1.891209	2.721602	2.652325
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.138402	3.472511	.4675453	1.089120	1.647812	-1.52708	.8719448
SDEV	.934103	1.391678	1.137622	1.608602	2.056934	.75351	1.047093
%RSD	29.76366	40.07698	243.3180	147.6974	124.8281	49.34330	120.0871
#1	2.566999	3.412632	-.260870	-.468215	-.512429	-.728107	.3232549
#2	2.631845	4.893163	-.114948	2.744504	1.872952	-2.22492	.2132254
#3	4.216362	2.111740	1.778454	.9910719	3.582914	-1.62823	2.079354
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.191797	4.576214	4540.200
SDEV	.700764	.287795	6.469
%RSD	365.3674	6.288937	.1424912
#1	.6055008	4.898721	4536.667
#2	-.470832	4.345549	4536.267
#3	-.710060	4.484373	4547.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-03 OPERATOR:
RUN TIME: 06/11/10 12:46:27
COMMENT: SDG:1005078 CLIENTID:SDZ-WN15 1:20
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4793426	52.35229	1.000686	.7830786	27562.26	.4945003	2.279079
SDEV	.7509146	5.57755	.080490	.1525608	300.28	.3425598	.084226
%RSD	156.6551	10.65388	8.043452	19.48218	1.089448	69.27393	3.695601
#1	.1711938	55.09638	.9481392	.7318898	27261.34	.0994851	2.181839
#2	1.335311	56.02621	1.093350	.9546509	27861.89	.6741357	2.326198
#3	-.068478	45.93431	.9605683	.6626949	27563.54	.7098802	2.329200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3356573	-.220813	L-173.507	30332.56	72421.47	7.535906	572082.3
SDEV	.3569201	.140854	14.039	48.80	856.50	.093769	773.7
%RSD	106.3347	63.78874	8.091060	.1608942	1.182659	1.244293	.1352389
#1	.6751012	-.156185	L-158.289	30384.99	72066.91	7.543465	572725.1
#2	.3683591	-.382384	L-185.952	30324.24	73398.31	7.625667	572298.2
#3	-.036488	-.123871	L-176.280	30288.45	71799.18	7.438587	571223.6
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9662030	2.156131	.5407350	2.470143	-.603819	.5980627	1.974161
SDEV	.7905398	2.832081	1.061307	.233372	1.507437	.6873521	1.082701
%RSD	81.81922	131.3501	196.2713	9.447730	249.6503	114.9298	54.84364
#1	1.428276	-.398638	-.066454	2.705431	.4721316	-.029436	3.130389
#2	.0533897	5.201437	1.766210	2.466264	.0431578	.4909363	.9842274
#3	1.416943	1.665593	-.077552	2.238734	-2.32675	1.332688	1.807866
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9721429	1.214423	-1.51435	.3398241	.7242170	1.063035	2.625492
SDEV	1.256552	6.780957	3.90067	7.603150	3.886459	.866146	3.106389
%RSD	129.2559	558.3688	257.5810	2237.378	536.6429	81.47865	118.3165
#1	1.409680	-4.48836	2.945869	-5.35478	2.626452	.1037275	.7283440
#2	1.951433	8.712326	-4.28769	8.973879	-3.74694	1.297725	6.210404
#3	-.444684	-.580698	-3.20122	-2.59963	3.293141	1.787651	.9377289
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.8226548	-.026912	4357.111
SDEV	1.054901	.443648	26.288
%RSD	128.2313	1648.504	.6033299
#1	-.208569	-.247335	4327.800
#2	1.899738	.4837785	4364.933
#3	.7767953	-.317179	4378.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

ANALYSIS REPORT QC STANDARD 06/11/10 01:00:41 PM PAGE 1

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 12:53:36
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	99.76033	46873.67	982.9749	996.3457	47090.00	959.3071	970.7597
SDEV	3.11880	688.89	9.4064	9.4546	933.35	15.5632	14.0399
%RSD	3.126288	1.469677	.9569293	.9489260	1.982062	1.622337	1.446276
#1	97.40927	47315.64	986.2665	989.2062	46394.55	947.0141	955.6509
#2	98.57339	47225.46	990.2932	992.7628	46724.69	954.1013	973.2238
#3	103.2983	46079.91	972.3651	1007.068	48150.75	976.8059	983.4044
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	935.0664	986.8132	23932.94	51886.59	49156.25	960.2523	49808.88
SDEV	20.0952	12.2451	326.54	1736.19	22.44	14.1980	844.62
%RSD	2.149070	1.240872	1.364412	3.346125	.0456556	1.478572	1.695717
#1	920.1696	976.5534	23705.33	53280.99	49137.88	946.5702	50492.25
#2	927.1075	983.5172	23786.40	52436.82	49149.60	959.2711	50069.80
#3	957.9220	1000.369	24307.08	49941.95	49181.27	974.9154	48864.59
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	959.9627	972.4294	965.2200	1021.911	957.8195	993.6445	993.2507
SDEV	11.1554	8.1854	8.0635	34.177	10.2826	1.3591	5.3748
%RSD	1.162063	.8417485	.8354025	3.344436	1.073539	.1367767	.5411361
#1	952.9485	979.0767	957.0875	998.2011	947.7193	994.2360	988.9356
#2	954.1133	974.9249	965.3599	1006.445	957.4639	992.0899	991.5452
#3	972.8262	963.2867	973.2126	1061.088	968.2752	994.6076	999.2714
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1004.995	958.5100	957.4711	1003.628	988.6576	1009.454	977.8034
SDEV	5.868	4.6128	13.1399	11.560	4.6001	5.511	10.2816
%RSD	.5839068	.4812430	1.372354	1.151819	.4652845	.5459715	1.051496
#1	1011.728	954.4108	944.3745	1016.028	983.3537	1006.044	987.4110
#2	1000.970	957.6141	957.3849	993.1484	991.5589	1006.505	979.0395
#3	1002.286	963.5049	970.6539	1001.708	991.0602	1015.812	966.9597
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1003.047	976.1233	4515.578
SDEV	12.893	2.9463	152.857
%RSD	1.285346	.3018409	3.385104
#1	992.8697	974.7191	4392.267
#2	998.7259	979.5092	4467.866
#3	1017.545	974.1419	4686.600
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 13:00:45
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1483680	26.18124	.1237452	.3587892	382.1772	.3599121	1.376879
SDEV	.2659480	1.48424	.0385983	.0242566	.5182	.0563363	.182331
%RSD	179.2489	5.669082	31.19176	6.760691	.1355890	15.65279	13.24237
#1	.4451039	24.53514	.1536228	.3594568	382.6437	.4042354	1.196688
#2	.0684775	26.59112	.1374478	.3342056	382.2684	.3789858	1.372672
#3	-.068478	27.41747	.0801651	.3827051	381.6194	.2965150	1.561278
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6488274	-.064628	10.52826	-1431.27	14.27772	.2905615	35.93100
SDEV	.4077359	.116883	7.27834	1.71	.35492	.0919786	71.11356
%RSD	62.84196	180.8538	69.13146	.1192376	2.485800	31.65546	197.9170
#1	1.116464	.0700137	13.74363	-1429.30	13.90849	.3816545	118.0459
#2	.3677237	-.140028	15.64518	-1432.23	14.61634	.1977222	-5.13272
#3	.4622952	-.123871	2.195972	-1432.28	14.30833	.2923079	-5.12014
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.073446	5.135817	.2350186	1.318857	.0352542	1.267158	3.531324
SDEV	.741984	.751583	.2520933	.001716	.6701775	1.084279	1.745060
%RSD	69.12170	14.63415	107.2653	.1301124	1900.987	85.56780	49.41660
#1	.5335516	5.223814	.4358016	1.316960	.6192573	1.233979	4.745415
#2	1.919524	5.839527	-.047899	1.319308	.1829608	.1998492	4.317018
#3	.7672635	4.344109	.3171529	1.320302	-.696455	2.367646	1.531539
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.202164	1.173675	-.535668	.1465232	1.824071	-.375867	-.041074
SDEV	.564627	.767188	.640676	2.447264	.457412	2.686223	.643695
%RSD	25.63965	65.36632	119.6033	1670.224	25.07644	714.6743	1567.168
#1	2.838899	1.965142	-.055226	.5019584	1.596891	2.169499	.3777508
#2	1.762428	1.122563	-.288705	-2.45902	1.524723	-3.18368	.2812876
#3	2.005165	.4333213	-1.26307	2.396634	2.350599	-.113417	-.782260
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.400327	.1935395	4706.844
SDEV	.287889	.0618259	24.459
%RSD	11.99374	31.94483	.5196505
#1	2.726709	.2630034	4734.466
#2	2.291787	.1445419	4698.133
#3	2.182487	.1730731	4687.933
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-BLK1 OPERATOR:
RUN TIME: 06/11/10 13:11:58
COMMENT: SDG:1005132 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4108651	22.55153	.0756509	.6745537	368.6585	.0453831	.5370901
SDEV	.6172480	6.55666	.0973351	.0765827	1.0415	.1578695	.0782114
%RSD	150.2313	29.07412	128.6634	11.35309	.2825238	347.8593	14.56207
#1	1.095640	18.65244	.1817374	.5935766	368.3323	-.044048	.5796303
#2	.2396713	18.88079	.0547534	.6842698	367.8191	.2276644	.5848111
#3	-.102716	30.12137	-.009538	.7458147	369.8241	-.047467	.4468289
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9558638	-.193885	10.29296	-1434.88	3.190928	.1445718	62.03429
SDEV	.4250643	.024680	10.22501	8.91	4.360797	.0535696	135.2796
%RSD	44.46913	12.72934	99.33988	.6207411	136.6623	37.05397	218.0723
#1	1.242117	-.188499	21.58599	-1424.61	8.024890	.2064247	190.0066
#2	1.158026	-.220813	1.662905	-1439.64	1.995077	.1130485	75.62317
#3	.4674489	-.172342	7.629983	-1440.40	-.447183	.1142421	-79.5269
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7194870	-.345749	.3476121	1.264066	-.276358	.8942416	2.575957
SDEV	.5952476	2.345579	.4535668	.244500	1.029641	.7439883	.441095
%RSD	82.73222	678.4055	130.4807	19.34232	372.5745	83.19769	17.12356
#1	1.311219	2.050945	.8492821	1.546389	.0724144	1.470664	2.082203
#2	.1207847	-2.63663	-.033485	1.122683	-1.43509	.0543770	2.714571
#3	.7264577	-.451560	.2270395	1.123125	.5335969	1.157684	2.931095
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.679351	-.664051	-.085483	-3.91217	3.291164	.4031785	1.237227
SDEV	1.824083	.961132	1.362301	2.07978	.105426	2.843251	2.608059
%RSD	108.6183	144.7377	1593.646	53.16167	3.203309	705.2089	210.7988
#1	3.772774	-1.40946	.8095938	-2.42326	3.412058	2.959599	4.043170
#2	.8338005	-1.00342	-1.65329	-6.28844	3.218342	-2.65902	.7813487
#3	.4314796	.4207272	.5872421	-3.02481	3.243092	.9089548	-1.11284
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.5702825	.1243950	4502.555
SDEV	.5902884	.1390147	49.813
%RSD	103.5081	111.7527	1.106330
#1	1.193205	.2435538	4558.133
#2	.4984387	.1579605	4487.600
#3	.0192041	-.028329	4461.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-BS1 OPERATOR:
RUN TIME: 06/11/10 13:19:06
COMMENT: SDG:1005132 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	764.6770	78468.20	1456.071	1283.391	37942.18	2018.358	614.0283
SDEV	10.6187	151.76	16.130	16.792	494.95	19.643	5.4156
%RSD	1.388648	.1933999	1.107762	1.308406	1.304486	.9732205	.8819862
#1	776.7405	78411.92	1437.446	1302.634	38500.26	2034.602	618.2333
#2	756.7451	78352.62	1465.399	1271.706	37556.44	1996.526	607.9174
#3	760.5455	78640.05	1465.368	1275.833	37769.84	2023.944	615.9342
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1110.000	108000.0	1840.000	1690.000	52200.00	2770.000	811.0000
LOW	490.0000	43900.00	1280.000	1170.000	34200.00	1880.000	561.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	597.7969	1336.640	155901.8	26554.20	19761.64	2823.817	3920.238
SDEV	3.6580	7.507	1019.0	308.52	124.89	17.771	204.908
%RSD	.6119192	.5616048	.6536346	1.161833	.6319567	.6293122	5.226930
#1	595.9371	1344.934	156146.2	26208.50	19683.87	2835.903	4093.291
#2	595.4426	1330.312	154782.7	26652.54	19695.36	2803.413	3693.973
#3	602.0112	1334.674	156776.3	26801.55	19905.69	2832.134	3973.451
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	738.0000	1540.000	214000.0	30600.00	27300.00	3650.000	6580.000
LOW	477.0000	1080.000	74200.00	17000.00	17100.00	2430.000	2540.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	443.8936	1347.146	729.2440	1023.536	645.5066	681.0490	778.5426
SDEV	4.9065	9.609	4.4753	17.647	6.9370	3.8274	3.4650
%RSD	1.105333	.7132813	.6136919	1.724108	1.074663	.5619902	.4450616
#1	448.7620	1348.644	732.4460	1041.409	638.6358	676.6414	776.7549
#2	438.9499	1336.876	724.1303	1006.125	652.5080	683.5342	776.3365
#3	443.9690	1355.918	731.1555	1023.074	645.3760	682.9714	782.5363
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	1970.000	930.0000	1410.000	918.0000	1030.000	1730.000
LOW	404.0000	1190.000	517.0000	905.0000	619.0000	626.0000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	714.5417	625.7889	655.3480	659.4512	691.8287	1596.978	-1.16248
SDEV	4.9606	9.5135	15.0880	9.8692	9.9980	17.059	3.62288
%RSD	.6942349	1.520236	2.302285	1.496571	1.445151	1.068224	311.6515
#1	719.6230	633.9368	640.9789	667.4960	681.2043	1607.178	2.676131
#2	709.7113	615.3342	671.0645	648.4387	701.0525	1577.284	-4.52194
#3	714.2909	628.0958	654.0005	662.4189	693.2291	1606.472	-1.64162
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	NOCHECK
HIGH	973.0000					2280.000	
LOW	645.0000					1220.000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	576.9078	3420.810	4734.533
SDEV	6.3301	31.034	61.324
%RSD	1.097243	.9072162	1.295257
#1	577.3986	3455.389	4802.933
#2	570.3466	3411.664	4716.200
#3	582.9782	3395.376	4684.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	705.0000	4510.000	
LOW	463.0000	1110.000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-01 OPERATOR:
RUN TIME: 06/11/10 13:26:14
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2853230	50447.83	49.75333	1.027944	604.6298	.8355620	3.124728
SDEV	.2767486	511.50	.15787	.245144	3.6290	.1250909	.319346
%RSD	96.99484	1.013922	.3173002	23.84801	.6002057	14.97087	10.21995
#1	.5820589	50337.64	49.88504	1.277414	603.1782	.9490528	3.378381
#2	.0342388	51005.44	49.79660	.7873681	608.7599	.7014370	2.766111
#3	.2396713	50000.40	49.57834	1.019049	601.9512	.8561962	3.229691
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	50.42947	7.593812	7299.275	1297.905	1178.461	62.79900	441.7452
SDEV	.65967	.451339	8.815	4.786	6.731	.33586	36.2779
%RSD	1.308096	5.943509	.1207617	.3687221	.5712097	.5348123	8.212400
#1	51.18367	7.502255	7297.433	1300.731	1184.476	62.44151	459.3297
#2	50.14479	8.083910	7308.865	1300.603	1179.719	63.10794	400.0261
#3	49.95995	7.195271	7291.527	1292.379	1171.190	62.84753	465.8796
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.748769	.0330205	55.95213	16.34109	26.13706	3.183060	12.33562
SDEV	.401868	2.565280	.54626	.24081	.94816	1.563149	.67264
%RSD	5.186212	7768.752	.9762955	1.473646	3.627637	49.10838	5.452835
#1	8.203150	-2.59744	56.25679	16.14863	27.23078	1.655940	13.03889
#2	7.603136	.1687770	56.27811	16.26351	25.63304	4.779905	11.69849
#3	7.440023	2.527727	55.32149	16.61112	25.54736	3.113335	12.26949
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8561477	31.48020	23.46645	-17.7838	13.64805	18.66212	-.513503
SDEV	1.597057	2.66233	.09592	1.9768	2.88639	.95203	1.317286
%RSD	186.5398	8.457144	.4087692	11.11597	21.14871	5.101390	256.5294
#1	1.083285	34.55333	23.57193	-18.1188	11.52574	17.65752	.4667219
#2	-.842317	30.01365	23.44298	-19.5717	16.93475	18.77782	-2.01089
#3	2.327475	29.87363	23.38444	-15.6608	12.48366	19.55100	.0036641
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	7.373300	1003.165	4454.600
SDEV	.958928	13.040	28.047
%RSD	13.00540	1.299888	.6296104
#1	7.627145	999.0829	4425.667
#2	8.179766	1017.758	4456.466
#3	6.312989	992.6544	4481.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-DUP1 OPERATOR:
RUN TIME: 06/11/10 13:33:22
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2282584	46813.28	50.02202	1.077822	611.1262	.9331171	3.032454
SDEV	.2850947	217.25	1.05199	.173210	2.0196	.2599994	.143023
%RSD	124.9000	.4640847	2.103052	16.07037	.3304768	27.86354	4.716406
#1	.5478201	46719.20	50.94578	1.234922	609.3732	.8122246	3.197311
#2	.1369550	46658.92	48.87700	.8920739	610.6705	.7555749	2.958521
#3	.0000000	47061.71	50.24327	1.106471	613.3347	1.231552	2.941529
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	46.92178	9.995826	7127.110	1168.668	1150.067	64.05687	407.0534
SDEV	.69565	.097390	76.651	12.745	9.532	.69899	68.4823
%RSD	1.482569	.9743040	1.075489	1.090585	.8288310	1.091209	16.82391
#1	46.22459	10.00660	7060.597	1168.718	1146.617	63.24995	454.5914
#2	47.61588	9.893498	7109.796	1155.898	1142.739	64.47633	438.0104
#3	46.92487	10.08738	7210.938	1181.388	1160.843	64.44432	328.5585
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.938744	-4.78240	55.78483	16.36978	27.85064	1.840749	12.24944
SDEV	.451001	2.29860	.86828	.42561	.58064	2.552256	.98031
%RSD	5.681009	48.06376	1.556477	2.599946	2.084836	138.6531	8.002912
#1	7.429531	-6.85765	54.92558	16.19323	27.84333	-.877933	11.19224
#2	8.098862	-5.17779	55.76704	16.06086	28.43491	2.214907	13.12841
#3	8.287840	-2.31175	56.66186	16.85525	27.27370	4.185274	12.42767
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.440912	34.55700	24.49942	-19.6063	12.54547	16.28431	-.590633
SDEV	1.831311	1.74510	.81638	3.7669	2.62860	1.65568	1.453007
%RSD	75.02572	5.049905	3.332238	19.21284	20.95256	10.16731	246.0082
#1	2.528529	36.21316	23.66160	-23.7925	10.55944	16.21388	-2.24895
#2	.5673643	34.72300	25.29252	-16.4902	11.55071	17.97407	.4592583
#3	4.226842	32.73484	24.54414	-18.5363	15.52627	14.66497	.0177891
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	5.545414	1048.599	4425.088
SDEV	.690639	10.021	22.386
%RSD	12.45424	.9556801	.5058937
#1	6.301664	1056.522	4411.733
#2	5.386485	1037.333	4450.933
#3	4.948094	1051.940	4412.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-MS1 OPERATOR:
RUN TIME: 06/11/10 13:40:30
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	45.93700	73943.55	2041.562	50.04495	676.4158	47.96555	483.6564
SDEV	.13837	336.18	13.993	.29660	.4881	.29106	2.1148
%RSD	.3012243	.4546378	.6854248	.5926714	.0721632	.6068132	.4372459
#1	45.77722	74050.19	2043.638	50.28375	676.7340	48.26573	484.5184
#2	46.01689	73566.99	2054.402	49.71294	675.8538	47.94636	481.2467
#3	46.01689	74213.48	2026.647	50.13817	676.6595	47.68456	485.2040
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	252.1235	255.9276	10672.14	2164.200	1669.413	542.4842	525.1209
SDEV	1.6568	1.5320	30.55	12.195	8.906	2.8048	63.8035
%RSD	.6571237	.5985922	.2862959	.5634721	.5334713	.5170214	12.15025
#1	252.8012	254.2527	10682.84	2176.934	1673.059	543.4049	594.7426
#2	250.2354	256.2723	10637.67	2152.627	1659.263	539.3348	511.1786
#3	253.3341	257.2579	10695.90	2163.040	1675.917	544.7128	469.4414
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	477.7660	43.45468	553.6233	475.0767	44.01078	12.62429	357.3055
SDEV	1.3817	2.18994	5.0029	1.9160	.93014	.71236	1.0931
%RSD	.2892009	5.039603	.9036683	.4032981	2.113442	5.642750	.3059343
#1	479.3573	45.10759	551.8731	475.3923	43.25077	13.13833	358.5381
#2	477.0705	44.28556	549.7306	473.0225	43.73356	11.81114	356.4539
#3	476.8702	40.97089	559.2662	476.8152	45.04802	12.92338	356.9245
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	35.88098	49.99727	41.01863	-10.3202	24.07661	955.3762	943.9103
SDEV	.93121	1.70818	.54346	7.1258	2.63669	5.8898	3.8627
%RSD	2.595278	3.416538	1.324913	69.04694	10.95125	.6164852	.4092273
#1	36.23832	48.54704	40.60318	-8.47841	23.92773	961.3888	946.1035
#2	34.82402	49.56461	40.81903	-18.1862	26.78458	949.6175	939.4503
#3	36.58059	51.88018	41.63366	-4.29617	21.51751	955.1224	946.1773
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	986.3782	1799.178	4400.355
SDEV	3.0133	16.274	30.693
%RSD	.3054936	.9045328	.6975142
#1	986.4633	1796.322	4367.066
#2	989.3481	1784.520	4427.533
#3	983.3232	1816.691	4406.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-MSD1 OPERATOR:
RUN TIME: 06/11/10 13:47:39
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	45.85711	68778.24	2012.926	49.49414	573.8360	48.03991	482.5443
SDEV	.69272	905.65	34.102	.43768	2.1623	.25059	3.0788
%RSD	1.510599	1.316762	1.694139	.8842968	.3768170	.5216237	.6380289
#1	45.05821	69810.89	2044.435	49.98680	571.6183	47.98522	485.9347
#2	46.22232	68119.02	1976.719	49.15021	573.9514	47.82118	481.7754
#3	46.29080	68404.80	2017.623	49.34541	575.9384	48.31332	479.9228
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	253.2523	251.7752	10267.45	1984.311	1566.005	541.4554	367.0397
SDEV	.6755	.4387	29.14	61.464	10.024	1.8450	49.6439
%RSD	.2667189	.1742505	.2838096	3.097506	.6401043	.3407458	13.52548
#1	252.5030	251.8291	10288.26	2055.273	1575.555	542.8094	400.7837
#2	253.8144	251.3121	10234.15	1949.906	1555.566	539.3540	310.0364
#3	253.4395	252.1846	10279.93	1947.753	1566.893	542.2028	390.2989
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	475.2339	37.85423	545.6666	472.7493	45.62495	11.17780	360.9124
SDEV	4.3693	2.52445	2.3677	2.5926	.65981	.71935	4.2685
%RSD	.9194049	6.668878	.4339023	.5484043	1.446154	6.435502	1.182689
#1	476.8688	38.20288	548.2208	471.2224	46.05064	11.98419	365.5117
#2	470.2829	35.17357	545.2340	471.2826	44.86490	10.60209	357.0782
#3	478.5500	40.18623	543.5451	475.7427	45.95932	10.94714	360.1474
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	35.95675	51.29232	42.79212	-9.29536	21.39630	945.2283	933.4174
SDEV	1.18787	1.25374	.56441	1.46821	1.34823	6.6402	9.8922
%RSD	3.303616	2.444301	1.318950	15.79514	6.301223	.7024953	1.059781
#1	37.20474	51.34546	43.40375	-9.82305	22.86868	947.3920	943.0208
#2	34.83987	50.01285	42.29140	-10.4268	21.09804	937.7761	923.2597
#3	35.82564	52.51864	42.68121	-7.63623	20.22217	950.5167	933.9716
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	980.6586	1801.164	4403.777
SDEV	4.9615	2.254	58.550
%RSD	.5059352	.1251261	1.329550
#1	979.5645	1799.098	4336.533
#2	976.3355	1800.826	4431.333
#3	986.0759	1803.567	4443.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005132-01 OPERATOR:
RUN TIME: 06/11/10 13:54:47
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3309747	10441.24	9.781719	.5669050	419.4008	.0515614	.7244618
SDEV	.0861656	95.28	.116411	.0484846	.4979	.2646262	.4070801
%RSD	26.03391	.9124954	1.190090	8.552517	.1187230	513.2249	56.19069
#1	.3423876	10374.63	9.892461	.5555081	419.1638	.2727210	.5066714
#2	.4108651	10550.37	9.792332	.6200728	419.9729	-.241620	1.194106
#3	.2396713	10398.71	9.660365	.5251340	419.0656	.1235833	.4726083
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.97386	3.387594	1514.035	-874.596	260.2791	13.05238	118.2357
SDEV	.18366	.323679	14.357	2.842	3.0450	.16979	66.8538
%RSD	1.673637	9.554830	.9482796	.3249195	1.169900	1.300848	56.54278
#1	11.16850	3.139853	1515.476	-872.567	263.6146	12.94106	194.2688
#2	10.94949	3.269109	1527.617	-873.376	259.5744	13.24781	68.65827
#3	10.80361	3.753820	1499.011	-877.844	257.6482	12.96828	91.78013
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.281050	1.538640	11.61206	4.182891	6.147445	1.617922	3.108334
SDEV	.555271	1.274504	.49600	.108133	1.139286	.624752	.861934
%RSD	24.34277	82.83318	4.271460	2.585131	18.53268	38.61446	27.72978
#1	2.188427	1.930205	12.17137	4.305071	6.927181	.9250709	2.130030
#2	2.876808	.1142936	11.22564	4.144089	4.839981	2.138367	3.755982
#3	1.777915	2.571421	11.43917	4.099513	6.675172	1.790327	3.438990
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.628756	7.601972	5.418631	-4.14825	4.494048	3.026207	.1642790
SDEV	1.033689	1.438729	1.301596	1.46853	1.338081	2.478940	.7045401
%RSD	63.46494	18.92574	24.02076	35.40128	29.77452	81.91573	428.8681
#1	.8265477	7.356169	6.710384	-4.15711	3.459724	1.615613	.8501351
#2	1.264446	6.301980	4.107410	-5.61233	6.005238	1.574467	-.557566
#3	2.795275	9.147768	5.438097	-2.67530	4.017182	5.888542	.2002674
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.582982	202.3958	4570.533
SDEV	.832474	2.2729	39.246
%RSD	52.58896	1.122998	.8586658
#1	2.474936	201.4054	4597.667
#2	1.447368	204.9958	4525.533
#3	.8266408	200.7861	4588.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-PS1 OPERATOR:
RUN TIME: 06/11/10 14:01:55
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.98083	51071.72	348.8326	8.569596	614.4115	8.341044	78.32953
SDEV	.46233	364.72	3.4682	.175987	7.8390	.118594	1.85522
%RSD	3.306877	.7141247	.9942395	2.053626	1.275861	1.421817	2.368485
#1	13.52431	51472.64	352.8373	8.705284	605.9622	8.205004	76.42478
#2	14.44876	50759.61	346.8234	8.370744	621.4481	8.395485	78.43289
#3	13.96941	50982.91	346.8369	8.632760	615.8242	8.422644	80.13090
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	66.25549	52.53194	7567.552	1280.815	1190.480	86.56367	417.7677
SDEV	2.40455	1.08397	130.119	66.946	5.259	1.33484	26.2590
%RSD	3.629212	2.063444	1.719432	5.226837	.4417681	1.542030	6.285552
#1	63.66972	51.30401	7421.132	1352.934	1185.023	85.15645	404.6774
#2	68.42429	53.35595	7669.949	1220.654	1195.516	87.81188	447.9987
#3	66.67248	52.93587	7611.574	1268.856	1190.901	86.72266	400.6270
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	67.06089	9.036675	133.0602	46.82620	30.02864	10.05440	94.62142
SDEV	1.78908	2.130753	.9583	2.47432	1.05043	.70671	3.45456
%RSD	2.667840	23.57895	.7202235	5.284053	3.498092	7.028907	3.650928
#1	65.00507	8.113480	132.2264	43.97262	29.14871	10.80987	90.83242
#2	67.91267	11.47334	134.1072	48.37581	29.74562	9.943881	95.43584
#3	68.26492	7.523204	132.8471	48.13017	31.19158	9.409464	97.59601
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.90356	33.13559	28.47447	-17.8017	23.95887	16.54485	-1.19736
SDEV	1.64439	1.44515	2.08796	.8752	1.28566	.81402	1.02298
%RSD	10.33973	4.361316	7.332759	4.916668	5.366127	4.920054	85.43622
#1	14.00525	32.93888	27.25337	-17.7891	25.08517	15.62684	-1.79891
#2	16.81650	34.66901	27.28466	-18.6831	24.23329	16.82899	-.016193
#3	16.88893	31.79887	30.88537	-16.9328	22.55815	17.17870	-1.77696
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	7.139598	1018.853	4494.844
SDEV	.435779	4.151	94.849
%RSD	6.103688	.4073839	2.110173
#1	7.438541	1022.181	4395.466
#2	7.340665	1014.202	4584.400
#3	6.639587	1020.177	4504.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-02 OPERATOR:
RUN TIME: 06/11/10 14:09:03
COMMENT: SDG:1005132 CLIENTID:SB78-3.5-4.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.136955	131438.4	143.2216	2.385634	1239.947	3.998475	-.534071
SDEV	.171194	859.8	1.3371	.449218	30.652	.363830	.530958
%RSD	125.0000	.6541103	.9335886	18.83012	2.472056	9.099208	99.41705
#1	-.136955	131795.0	144.6920	2.896308	1206.078	4.373570	-.827488
#2	.0342388	130457.7	142.8944	2.209073	1247.983	3.974787	-.853567
#3	-.308149	132062.4	142.0785	2.051522	1265.781	3.647069	.0788412
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	184.8572	11.07835	83649.30	6842.796	5130.193	89.89091	523.7581
SDEV	4.9579	.83710	1384.86	190.615	51.615	1.34295	82.0179
%RSD	2.681998	7.556225	1.655550	2.785636	1.006111	1.493980	15.65951
#1	179.4426	10.13585	82229.91	7062.343	5078.453	88.41283	447.8733
#2	185.9547	11.36379	83721.16	6746.569	5130.444	90.22375	512.6284
#3	189.1744	11.73540	84996.82	6719.476	5181.683	91.03614	610.7725
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	18.10890	3.653768	233.6686	51.55130	57.15011	3.928727	7.577508
SDEV	.85925	5.072633	5.3867	3.35746	2.12750	2.168136	5.760986
%RSD	4.744878	138.8330	2.305271	6.512847	3.722661	55.18673	76.02745
#1	17.24986	9.211075	228.2508	47.73255	57.23096	1.929468	1.485208
#2	18.10849	-.727653	233.7312	52.88155	54.98333	3.623352	12.93707
#3	18.96835	2.477882	239.0237	54.03980	59.23604	6.233361	8.310247
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.17735	54.62999	58.40496	-9.81567	10.78787	20.52097	.4816663
SDEV	5.44811	3.58717	1.67393	3.00062	3.11350	1.53008	.3344927
%RSD	35.89628	6.566307	2.866078	30.56971	28.86113	7.456163	69.44492
#1	8.893585	56.31931	57.68292	-8.72540	7.246098	20.53667	.8620542
#2	18.57915	50.51005	57.21323	-13.2090	12.02419	18.98311	.3494739
#3	18.05933	57.06061	60.31873	-7.51261	13.09333	22.04314	.2334708
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.82402	1034.566	4397.733
SDEV	.99728	18.688	95.606
%RSD	9.213602	1.806389	2.173994
#1	11.32544	1013.264	4287.600
#2	9.675529	1042.227	4446.200
#3	11.47109	1048.206	4459.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

ANALYSIS REPORT QC STANDARD 06/11/10 02:23:18 PM PAGE 1

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 14:16:12
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	101.3696	46975.37	960.5209	998.0891	47894.27	960.7026	982.9475
SDEV	.4113	258.65	11.9561	1.6373	56.23	6.0712	3.1322
%RSD	.4057837	.5506145	1.244751	.1640391	.1174029	.6319542	.3186514
#1	101.3467	46823.99	957.4420	996.6041	47925.88	964.3896	986.5073
#2	100.9701	47274.03	950.4055	997.8185	47829.35	953.6954	981.7212
#3	101.7918	46828.09	973.7154	999.8448	47927.58	964.0230	980.6141
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	942.5823	995.7857	24089.39	51401.16	49492.39	966.5615	49923.75
SDEV	10.6244	.8584	146.11	136.45	367.59	8.5613	149.99
%RSD	1.127153	.0861988	.6065246	.2654628	.7427219	.8857502	.3004372
#1	954.4352	994.7947	24257.79	51547.77	49916.09	976.1352	49985.05
#2	939.3962	996.2650	23996.27	51377.84	49302.44	963.9090	49752.82
#3	933.9156	996.2974	24014.12	51277.88	49258.63	959.6404	50033.38
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	962.1306	973.9319	971.5403	1041.927	962.9858	983.3733	985.3250
SDEV	4.3907	3.2591	13.3402	4.756	6.1111	5.3238	10.8299
%RSD	.4563491	.3346376	1.373095	.4564516	.6346021	.5413825	1.099122
#1	964.3063	975.8651	979.1540	1047.212	969.9370	986.3663	979.2719
#2	957.0770	970.1690	979.3301	1037.992	960.5618	986.5269	978.8749
#3	965.0087	975.7615	956.1367	1040.578	958.4585	977.2266	997.8283
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1005.690	950.9020	969.0159	989.6269	980.2486	1014.634	978.2808
SDEV	1.560	1.9420	9.1645	2.3093	8.3017	3.578	6.5017
%RSD	.1551170	.2042246	.9457535	.2333481	.8468969	.3526417	.6646046
#1	1007.411	951.3989	979.1896	991.6299	983.7360	1015.473	979.5902
#2	1005.289	948.7599	966.4512	987.1011	986.2378	1017.717	971.2240
#3	1004.370	952.5473	961.4070	990.1499	970.7721	1010.711	984.0281
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1002.797	975.8933	4578.400
SDEV	6.366	2.4244	10.629
%RSD	.6347855	.2484301	.2321562
#1	1005.809	975.9139	4566.733
#2	995.4843	973.4586	4580.933
#3	1007.098	978.3073	4587.533
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 14:23:22
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2739101	20.26405	.1443691	.4058416	377.5014	.5981876	1.609125
SDEV	.2802563	1.95449	.1380601	.1470063	1.0896	.0253119	.307112
%RSD	102.3169	9.645091	95.62995	36.22258	.2886352	4.231430	19.08568
#1	.5135814	21.71204	.3018058	.5748540	378.7386	.6003347	1.866627
#2	.3423876	21.03922	.0439515	.3350088	376.6848	.6223575	1.691531
#3	-.034239	18.04089	.0873500	.3076620	377.0808	.5718705	1.269216
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9672880	-.183113	9.862811	-1423.57	13.96323	.3239278	113.6425
SDEV	.2391719	.074626	3.853845	14.73	5.87974	.1091675	164.6777
%RSD	24.72603	40.75409	39.07451	1.034669	42.10877	33.70120	144.9085
#1	1.220740	-.140028	5.988086	-1406.57	20.74194	.3872375	303.7959
#2	.9355611	-.140028	13.69543	-1432.44	10.90273	.3866734	18.60496
#3	.7455630	-.269284	9.904919	-1431.70	10.24501	.1978724	18.52665
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5166657	3.219406	.1572061	1.182252	2.177462	2.821946	3.862913
SDEV	.4378304	2.491718	.2563498	.239374	.394976	1.780228	2.370356
%RSD	84.74152	77.39682	163.0661	20.24733	18.13927	63.08514	61.36187
#1	.0154320	6.058234	.4442597	.9058470	2.527851	4.052239	5.322894
#2	.7101070	2.205513	.0762526	1.321114	1.749431	3.632982	5.137899
#3	.8244580	1.394470	-.048894	1.319795	2.255104	.7806166	1.127947
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.506266	3.950809	1.289542	4.293673	2.084610	1.367196	2.030495
SDEV	.840969	4.065301	1.470469	4.218480	2.500372	2.174605	3.593954
%RSD	55.83138	102.8979	114.0304	98.24874	119.9444	159.0559	176.9989
#1	2.343000	8.254039	-.333532	9.110077	1.524531	3.751651	6.163879
#2	1.514672	.1748995	2.532939	1.255180	4.817524	.8566474	.2845223
#3	.6611254	3.423489	1.669218	2.515764	-.088226	-.506712	-.356916
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.375590	.2152233	4685.955
SDEV	1.569850	.0806648	10.886
%RSD	114.1220	37.47957	.2323193
#1	2.885292	.2405460	4675.466
#2	1.489661	.2801885	4685.200
#3	-.248185	.1249355	4697.200
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-03 OPERATOR:
RUN TIME: 06/11/10 14:30:31
COMMENT: SDG:1005132 CLIENTID:SB77-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.136955	33007.06	84.96268	1.205574	4999.071	1.361397	1.888888
SDEV	.224519	402.22	1.95901	.268345	28.791	.300519	.289700
%RSD	163.9360	1.218574	2.305735	22.25865	.5759279	22.07432	15.33706
#1	-.342388	32793.64	83.31660	.9138789	4965.843	1.014963	1.683524
#2	-.171194	32756.54	84.44202	1.260901	5014.746	1.517313	1.762887
#3	.1027163	33471.01	87.12943	1.441944	5016.623	1.551915	2.220251
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.47716	15.39766	14884.18	-230.813	1176.843	124.6876	419.3355
SDEV	.87713	.19411	164.63	20.332	16.769	1.7665	15.2567
%RSD	2.404608	1.260634	1.106053	8.808810	1.424950	1.416771	3.638297
#1	35.48473	15.59693	14699.91	-243.320	1158.343	122.8001	416.0310
#2	36.79826	15.38689	14935.85	-241.766	1181.142	124.9614	435.9736
#3	37.14849	15.20917	15016.76	-207.353	1191.045	126.3012	406.0018
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.16323	-5.71625	48.16831	52.38630	47.20152	3.171869	14.63202
SDEV	.78581	.91198	.11882	.91309	.83558	2.147893	1.79188
%RSD	7.039280	15.95410	.2466836	1.743003	1.770236	67.71695	12.24629
#1	10.93890	-5.90136	48.06677	51.63584	46.52077	3.997358	12.56519
#2	12.03681	-6.52147	48.13917	53.40290	48.13403	4.784556	15.58178
#3	10.51398	-4.72592	48.29900	52.12017	46.94976	.7336939	15.74909
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.11707	51.03422	45.28499	-19.7399	14.60787	17.12543	-1.18477
SDEV	.30676	1.45717	1.03578	5.1992	1.10442	2.70810	.36019
%RSD	3.032132	2.855278	2.287259	26.33843	7.560417	15.81334	30.40175
#1	9.846567	51.35187	44.10584	-19.6021	15.77674	14.29275	-1.32986
#2	10.45037	52.30637	46.04794	-14.6110	14.46508	19.68884	-1.44979
#3	10.05428	49.44443	45.70119	-25.0066	13.58180	17.39470	-.774664
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.342427	674.9955	4459.088
SDEV	.636317	3.3911	78.034
%RSD	19.03756	.5023828	1.749988
#1	4.076205	675.8464	4537.066
#2	2.942743	671.2601	4459.200
#3	3.008332	677.8801	4380.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-04 OPERATOR:
RUN TIME: 06/11/10 14:37:39
COMMENT: SDG:1005132 CLIENTID:SB77-3.5-4.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2967359	41264.40	86.60052	1.490998	4398.099	1.472776	2.801730
SDEV	.3087822	692.91	1.05165	.118545	78.692	.222744	.371286
%RSD	104.0596	1.679208	1.214370	7.950693	1.789219	15.12412	13.25204
#1	.6162977	40475.27	85.40434	1.620255	4307.254	1.498858	2.395536
#2	.2739101	41773.38	87.01742	1.387353	4445.200	1.238138	3.123606
#3	.0000000	41544.54	87.37980	1.465387	4441.843	1.681330	2.886048
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	51.62759	12.42477	19805.09	177.5244	1524.398	82.53828	516.2901
SDEV	.74818	.54704	369.94	9.9502	25.365	1.73449	76.6935
%RSD	1.449182	4.402802	1.867919	5.604985	1.663967	2.101438	14.85472
#1	50.76895	11.92929	19378.18	166.2687	1495.576	80.56581	602.5308
#2	52.13957	13.01181	20031.53	181.1551	1543.324	83.22369	455.7401
#3	51.97423	12.33321	20005.56	185.1494	1534.295	83.82533	490.5994
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.35980	-6.43413	68.55760	23.72889	43.58158	1.881386	11.12535
SDEV	.19839	4.04160	1.24601	.41096	.93856	1.186856	2.14518
%RSD	1.605132	62.81496	1.817471	1.731900	2.153580	63.08412	19.28191
#1	12.34538	-3.86235	67.14362	23.35132	43.27191	.6053740	9.694187
#2	12.56501	L-11.0925	69.49493	24.16661	42.83698	2.086411	13.59182
#3	12.16902	-4.34749	69.03425	23.66873	44.63585	2.952372	10.09003
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.347872	50.12444	40.31208	-19.6724	12.63947	18.76081	.6755303
SDEV	2.933303	1.19981	1.98604	.4350	1.98269	2.01205	1.013979
%RSD	54.84992	2.393669	4.926658	2.211134	15.68654	10.72476	150.1011
#1	6.128807	50.90636	39.45743	-19.1701	10.47565	16.79776	-.451073
#2	2.103132	50.72395	38.89645	-19.9264	13.07370	20.81852	1.514924
#3	7.811678	48.74303	42.58238	-19.9205	14.36905	18.66616	.9627406
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.846008	819.3895	4581.622
SDEV	.316714	20.0797	11.773
%RSD	11.12836	2.450565	.2569610
#1	2.734792	796.2618	4570.866
#2	3.203330	832.3768	4579.800
#3	2.599903	829.5297	4594.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-05 OPERATOR:
RUN TIME: 06/11/10 14:44:47
COMMENT: SDG:1005132 CLIENTID:SB79-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3309747	15790.90	52.44135	1.086059	1680.967	.6839283	1.660840
SDEV	.1100622	217.03	.52629	.286199	21.630	.2761626	.122414
%RSD	33.25397	1.374426	1.003585	26.35212	1.286783	40.37888	7.370577
#1	.4108651	15540.31	52.91396	1.415958	1656.206	.6644469	1.787708
#2	.2054325	15913.95	51.87419	.9379806	1696.185	.9693156	1.651382
#3	.3766263	15918.45	52.53590	.9042367	1690.509	.4180222	1.543430
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.67209	13.69579	4953.108	-583.215	460.9406	82.45312	473.6969
SDEV	.59761	.35114	64.325	4.283	4.5768	1.44417	24.2134
%RSD	2.757510	2.563888	1.298677	.7343600	.9929166	1.751507	5.111573
#1	21.06192	13.75503	4880.711	-578.716	456.0031	80.78598	501.3087
#2	22.25630	14.01355	4974.928	-587.242	461.7776	83.25315	463.6965
#3	21.69806	13.31879	5003.685	-583.686	465.0410	83.32022	456.0856
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.748596	-7.34153	24.49998	32.43129	33.25310	2.173060	11.91373
SDEV	.430431	1.17035	.70897	.86412	1.35844	.935789	.39802
%RSD	6.378086	15.94152	2.893741	2.664451	4.085157	43.06318	3.340878
#1	6.287838	-5.99012	23.72550	32.97669	31.68547	1.994483	12.02120
#2	7.140367	-8.01743	24.65753	31.43499	34.08455	3.185269	12.24698
#3	6.817583	-8.01703	25.11693	32.88219	33.98928	1.339427	11.47301
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.605649	40.85908	29.45276	-21.3533	13.91587	16.83101	.3115811
SDEV	.880404	1.13425	2.59004	1.4632	.69174	1.69311	.2591659
%RSD	54.83163	2.776011	8.793885	6.852241	4.970872	10.05946	83.17767
#1	.7697080	42.11905	26.47344	-21.8948	13.91850	18.22271	.4632150
#2	2.524631	39.91945	31.16842	-19.6965	14.60630	14.94604	.0123311
#3	1.522609	40.53874	30.71640	-22.4685	13.22283	17.32427	.4591972
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.286104	667.6149	4441.200
SDEV	.989965	7.5632	7.866
%RSD	76.97395	1.132862	.1771145
#1	2.347159	661.4695	4436.200
#2	1.123883	676.0613	4437.133
#3	.3872682	665.3138	4450.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-06 OPERATOR:
RUN TIME: 06/11/10 14:51:56
COMMENT: SDG:1005132 CLIENTID:SB79-11-12 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1369550	71576.38	100.7388	1.727503	1184.790	1.613271	3.003060
SDEV	.0342388	808.44	.7326	.193082	12.977	.353193	.425799
%RSD	25.00000	1.129480	.7272409	11.17697	1.095277	21.89296	14.17885
#1	.1027163	70705.54	100.0363	1.516938	1170.857	1.224035	2.512026
#2	.1369550	71720.57	100.6818	1.769320	1186.980	1.913324	3.226917
#3	.1711938	72303.02	101.4982	1.896250	1196.532	1.702453	3.270237
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	95.39500	11.63846	23206.56	5038.626	2572.083	64.36341	510.0690
SDEV	2.24674	.28031	504.27	72.861	45.953	1.30620	51.2976
%RSD	2.355193	2.408512	2.172943	1.446042	1.786603	2.029420	10.05700
#1	92.81163	11.88082	22642.62	4956.817	2521.470	62.92310	529.3721
#2	96.48058	11.70309	23362.98	5062.524	2583.591	64.69589	451.9201
#3	96.89278	11.33148	23614.08	5096.536	2611.188	65.47124	548.9147
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.01756	-2.44123	175.3569	41.70364	35.97793	1.449840	11.74268
SDEV	.58037	1.66196	4.8917	1.41959	.90779	.769670	1.65895
%RSD	4.458374	68.07885	2.789544	3.403988	2.523193	53.08651	14.12749
#1	13.35822	-3.80056	170.5702	40.06523	36.99046	1.923273	11.78590
#2	13.34702	-.588415	175.1531	42.47884	35.23678	1.864498	10.06254
#3	12.34744	-2.93470	180.3472	42.56685	35.70654	.5617505	13.37959
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.66568	40.01027	33.96177	-20.8494	12.58008	15.56400	-.100836
SDEV	1.37244	3.67770	1.09663	2.1262	.70126	.58472	1.492017
%RSD	7.768966	9.191880	3.229021	10.19807	5.574340	3.756852	1479.648
#1	19.18577	42.65798	34.15798	-21.0385	13.38429	16.23690	-1.76518
#2	16.51759	35.81106	34.94705	-18.6350	12.09618	15.17965	1.116800
#3	17.29367	41.56176	32.78027	-22.8748	12.25976	15.27545	.3458718
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	4.229679	900.7863	4503.377
SDEV	.726210	9.0674	55.716
%RSD	17.16939	1.006614	1.237200
#1	4.758768	890.3484	4564.933
#2	3.401725	905.2941	4488.800
#3	4.528543	906.7165	4456.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-07 OPERATOR:
RUN TIME: 06/11/10 14:59:04
COMMENT: SDG:1005132 CLIENTID:SB83-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3195617	29623.41	66.33711	1.042919	10048.65	.6851003	1.085309
SDEV	.1383743	57.38	.96410	.360705	153.30	.0980135	.260306
%RSD	43.30127	.1937102	1.453334	34.58607	1.525568	14.30644	23.98447
#1	.4793426	29570.20	65.45333	.9191693	10152.44	.7344062	1.366365
#2	.2396713	29615.82	66.19275	.7603786	10120.94	.7486706	1.037057
#3	.2396713	29684.21	67.36525	1.449211	9872.575	.5722241	.8525053
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.58609	7.992352	8920.972	-565.144	815.2838	56.57556	487.6434
SDEV	1.01912	.457085	63.583	15.645	7.6834	.44759	37.1392
%RSD	3.127477	5.719030	.7127310	2.768235	.9424226	.7911422	7.616067
#1	32.32014	8.067751	8993.790	-574.507	823.9092	57.09239	516.0544
#2	33.71182	8.407049	8876.449	-573.842	809.1722	56.31896	445.6182
#3	31.72631	7.502255	8892.675	-547.083	812.7699	56.31532	501.2575
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.975746	-6.56910	40.45110	35.24995	44.19525	4.654893	14.13496
SDEV	1.115416	1.07130	.58196	.29645	2.41775	.784357	1.88206
%RSD	12.42700	16.30811	1.438684	.8409995	5.470608	16.85017	13.31490
#1	7.697592	-5.98470	40.98930	35.58516	42.92283	4.497545	15.83590
#2	9.477365	-5.91708	40.53049	35.02227	46.98349	3.961137	12.11307
#3	9.752281	-7.80550	39.83352	35.14243	42.67944	5.505997	14.45591
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.091191	49.48854	41.54950	-17.4195	15.67278	16.22290	-.624658
SDEV	1.464347	2.50006	4.26705	1.9859	1.76861	2.66864	1.452362
%RSD	35.79268	5.051790	10.26979	11.40049	11.28463	16.44984	232.5052
#1	5.489723	52.36727	38.20465	-15.1551	14.30641	15.71020	.5650443
#2	4.214964	48.23606	46.35508	-18.2384	15.04153	13.84780	-2.24314
#3	2.568886	47.86227	40.08876	-18.8650	17.67042	19.11069	-.195882
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.461292	518.8707	4410.488
SDEV	.722524	5.2585	72.796
%RSD	49.44421	1.013441	1.650526
#1	2.203142	522.1802	4470.733
#2	.7597845	521.6246	4431.133
#3	1.420948	512.8072	4329.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-08 OPERATOR:
RUN TIME: 06/11/10 15:06:13
COMMENT: SDG:1005132 CLIENTID:SB83-6.5-7.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4565168	77573.62	71.45048	1.391254	1113.297	1.576633	4.208588
SDEV	.1688958	1221.02	.94585	.255348	18.730	.022567	.383573
%RSD	36.99662	1.574020	1.323780	18.35379	1.682423	1.431333	9.114066
#1	.6505364	77920.86	72.27253	1.643949	1099.078	1.579341	3.992433
#2	.3423876	76216.59	70.41672	1.133333	1106.292	1.552834	3.981872
#3	.3766263	78583.41	71.66219	1.396479	1134.520	1.597724	4.651458
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	74.19437	5.261811	13254.64	2216.544	1958.922	49.27078	505.1489
SDEV	3.05417	.105124	345.51	63.398	47.309	1.29656	76.3632
%RSD	4.116449	1.997873	2.606728	2.860205	2.415035	2.631492	15.11697
#1	72.35294	5.256425	13062.19	2273.907	1935.887	48.71941	590.3456
#2	72.51030	5.369525	13048.21	2148.475	1927.542	48.34104	482.2351
#3	77.71985	5.159483	13653.52	2227.250	2013.336	50.75189	442.8660
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.95960	-2.89662	69.49277	21.99061	30.32547	3.674717	12.15650
SDEV	.93466	2.80160	1.75293	1.14426	1.17242	.808554	2.30713
%RSD	6.247914	96.71980	2.522469	5.203422	3.866127	22.00317	18.97856
#1	14.43630	-5.19404	68.43046	20.77385	30.53837	4.126050	9.542212
#2	14.40381	-3.72032	68.53183	22.15295	29.06118	2.741248	13.90746
#3	16.03869	.2244978	71.51605	23.04504	31.37685	4.156853	13.01981
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3142656	36.02144	27.47872	-19.3122	15.14825	18.64678	-.184802
SDEV	2.171342	4.07007	2.39290	4.5543	1.31763	2.51061	.245582
%RSD	690.9257	11.29902	8.708176	23.58227	8.698235	13.46407	132.8897
#1	-2.16212	40.71465	25.45479	-14.9472	13.64567	21.54523	-.324636
#2	1.212819	33.46087	26.86165	-24.0347	16.10649	17.14859	.0987635
#3	1.892100	33.88879	30.11971	-18.9547	15.69261	17.24651	-.328533
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.933921	646.4681	4482.755
SDEV	.445883	7.9300	65.466
%RSD	11.33431	1.226663	1.460403
#1	4.433928	644.2766	4430.133
#2	3.577586	639.8643	4556.066
#3	3.790250	655.2634	4462.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-09 OPERATOR:
RUN TIME: 06/11/10 15:13:22
COMMENT: SDG:1005132 CLIENTID:SB62-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7418398	29296.30	93.61204	1.517331	1473.858	.6645926	1.966854
SDEV	.2429103	264.85	.52683	.312185	4.816	.2534324	.257603
%RSD	32.74430	.9040539	.5627776	20.57458	.3267288	38.13350	13.09721
#1	.4793426	29572.49	93.49061	1.496204	1478.889	.9337414	2.043416
#2	.7874914	29271.95	94.18899	1.839543	1473.392	.6295024	2.177497
#3	.9586853	29044.46	93.15654	1.216247	1469.292	.4305338	1.679650
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	25.50315	47.93796	1647.407	359.6741	680.2232	18.84705	712.2685
SDEV	.53778	1.07543	16.719	25.1308	12.4354	.31623	44.0253
%RSD	2.108671	2.243373	1.014841	6.987103	1.828135	1.677864	6.180996
#1	25.86862	47.71714	1657.220	362.7691	681.6822	18.87696	675.6439
#2	25.75519	46.99007	1656.898	383.1141	691.8647	19.14726	761.1128
#3	24.88565	49.10665	1628.103	333.1392	667.1226	18.51693	700.0488
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.116320	-7.10011	34.49181	18.02026	69.00247	12.63192	11.44652
SDEV	1.050790	.90694	.57492	.08276	1.85179	1.38729	1.15789
%RSD	17.18011	12.77356	1.666821	.4592789	2.683651	10.98243	10.11561
#1	5.078554	-7.13062	34.89138	18.11059	68.18272	12.40550	10.11042
#2	6.090738	-7.99141	34.75115	17.94807	71.12264	14.11849	12.15723
#3	7.179667	-6.17831	33.83291	18.00211	67.70205	11.37176	12.07192
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.293020	76.14802	65.43195	-11.4196	24.63690	24.19811	-.125092
SDEV	1.100214	1.83764	1.91673	1.7778	1.25265	2.84395	1.038738
%RSD	15.08585	2.413244	2.929350	15.56816	5.084428	11.75278	830.3789
#1	6.247874	75.93741	64.30807	-12.2670	24.72048	26.97482	1.057710
#2	8.441071	78.08189	67.64511	-9.37661	25.84566	21.29138	-.544122
#3	7.190116	74.42476	64.34267	-12.6152	23.34455	24.32813	-.888864
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.056684	265.6868	4387.733
SDEV	.725200	4.7846	53.462
%RSD	68.62979	1.800825	1.218449
#1	1.154081	270.8543	4364.600
#2	.2877074	261.4106	4349.733
#3	1.728264	264.7955	4448.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-10 OPERATOR:
RUN TIME: 06/11/10 15:20:30
COMMENT: SDG:1005132 CLIENTID:SB74-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.011413	26199.84	81.58882	.7475173	1138.055	.9099297	2.675123
SDEV	.138374	463.47	.74087	.1486135	17.403	.3316612	.302535
%RSD	1212.436	1.768985	.9080521	19.88095	1.529198	36.44910	11.30921
#1	-.171194	25830.91	81.68927	.8974162	1119.567	1.040157	2.418734
#2	.0684775	26720.05	82.27434	.6002234	1154.119	1.156713	3.008807
#3	.0684775	26048.56	80.80286	.7449121	1140.478	.5329189	2.597827
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.16538	16.24860	9832.401	-317.746	830.0422	77.89043	551.9495
SDEV	.58736	.58352	139.567	5.174	10.4276	1.10549	34.6172
%RSD	2.085390	3.591204	1.419463	1.628443	1.256273	1.419287	6.271807
#1	27.58420	15.79082	9674.744	-315.469	824.4002	76.64963	590.7888
#2	28.75873	16.90566	9940.163	-314.101	842.0751	78.77046	540.7142
#3	28.15320	16.04933	9882.298	-323.668	823.6511	78.25121	524.3455
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.744900	-4.73311	32.87322	18.08171	35.47302	2.576918	13.35530
SDEV	.512522	1.94888	1.16558	.33213	.68685	2.136552	2.14236
%RSD	5.860816	41.17553	3.545677	1.836850	1.936267	82.91115	16.04130
#1	8.882643	-5.97836	31.62841	17.82913	35.02524	3.292121	12.65708
#2	8.177581	-2.48717	33.93880	17.95807	35.12999	4.264119	11.64915
#3	9.174475	-5.73381	33.05246	18.45793	36.26382	.1745134	15.75967
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.664646	40.78389	32.81861	-18.9490	13.32113	17.99304	.4528666
SDEV	1.063099	.97297	.54531	.3452	3.07886	1.75390	1.068157
%RSD	39.89645	2.385664	1.661593	1.821819	23.11261	9.747656	235.8657
#1	2.661517	40.19974	32.43893	-18.6052	14.22177	16.98920	1.062186
#2	3.729306	40.24486	32.57343	-18.9462	15.84924	16.97168	1.076920
#3	1.603115	41.90707	33.44347	-19.2957	9.892384	20.01825	-.780506
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.647214	644.0281	4604.222
SDEV	.532434	7.3960	20.138
%RSD	32.32328	1.148400	.4373736
#1	1.525133	638.8768	4614.800
#2	1.186423	652.5028	4580.999
#3	2.230085	640.7047	4616.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-11 OPERATOR:
RUN TIME: 06/11/10 15:27:38
COMMENT: SDG:1005132 CLIENTID:SB86-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.136955	100437.8	110.7945	.9680689	50110.64	3.960505	-1.48182
SDEV	.298487	426.7	.6499	.1903623	517.14	.394974	.14182
%RSD	217.9450	.4248281	.5865558	19.66412	1.031993	9.972809	9.570404
#1	.2054325	100006.2	111.3149	1.185834	50039.82	4.340546	-1.53937
#2	-.273910	100859.4	110.0661	.8851032	50659.54	3.988845	-1.32027
#3	-.342388	100447.7	111.0024	.8332698	49632.56	3.552125	-1.58581
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	111.8690	6.877516	76879.54	1649.053	3955.837	83.26597	497.4118
SDEV	1.9983	.219957	818.65	12.129	36.207	.70947	110.3499
%RSD	1.786262	3.198206	1.064847	.7355053	.9152685	.8520574	22.18481
#1	111.0105	6.629776	77173.78	1661.514	3966.327	83.70876	541.7357
#2	114.1531	6.952915	77510.40	1637.286	3985.640	83.64149	578.7083
#3	110.4435	7.049859	75954.44	1648.359	3915.544	82.44766	371.7915
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.25178	.9949748	200.2239	69.96223	74.00726	8.814689	12.73637
SDEV	.57048	6.109376	1.7661	1.19874	1.59753	1.931893	1.17671
%RSD	3.740420	614.0232	.8820697	1.713413	2.158617	21.91675	9.238997
#1	15.59950	5.226830	201.6875	69.58951	75.82295	11.02818	12.93491
#2	14.59339	-6.00900	200.7219	71.30306	72.81730	7.468023	11.47302
#3	15.56244	3.767098	198.2622	68.99413	73.38155	7.947866	13.80118
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.15355	70.43477	75.78768	-9.59100	18.00112	18.54341	.4107306
SDEV	1.85926	4.06438	1.10481	4.37652	1.63346	.82410	1.793364
%RSD	15.29811	5.770421	1.457775	45.63157	9.074209	4.444175	436.6277
#1	14.23111	74.91858	76.27117	-5.08231	19.06872	19.49262	2.152032
#2	10.64609	69.39318	74.52354	-9.86854	16.12071	18.01047	.5106744
#3	11.58345	66.99254	76.56834	-13.8221	18.81394	18.12716	-1.43051
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.986763	726.6234	4626.822
SDEV	.302435	6.1690	20.960
%RSD	7.585985	.8489949	.4530008
#1	4.122677	720.6378	4609.200
#2	4.197396	732.9607	4649.999
#3	3.640216	726.2716	4621.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-12 OPERATOR:
RUN TIME: 06/11/10 15:34:47
COMMENT: SDG:1005132 CLIENTID:SB86-3-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.034239	79672.47	82.92807	1.788326	5902.183	5.258434	-9.44236
SDEV	.190633	1458.74	1.74117	.474596	208.783	.330214	.44482
%RSD	556.7764	1.830926	2.099613	26.53856	3.537381	6.279704	4.710854
#1	.1711938	81354.88	84.89196	2.328249	5677.901	5.408069	-9.83814
#2	-.068478	78902.45	82.31896	1.599629	5937.750	5.487341	-8.96096
#3	-.205433	78760.09	81.57328	1.437100	6090.898	4.879892	-9.52799
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	111.0547	42.89696	135782.7	2812.271	3131.720	67.19292	530.0063
SDEV	4.0190	2.84150	3569.8	183.936	27.345	1.77742	48.1278
%RSD	3.618907	6.624005	2.629078	6.540481	.8731635	2.645256	9.080612
#1	106.7480	39.65478	132043.9	3022.425	3108.988	65.30022	574.5548
#2	111.7111	44.08181	136148.9	2733.816	3124.106	67.45186	536.5049
#3	114.7051	44.95429	139155.3	2680.571	3162.065	68.82667	478.9595
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.90823	-.478958	136.2083	33.25312	48.38173	3.796482	6.778595
SDEV	.71945	2.066700	2.5946	3.05643	.09406	.975103	3.609972
%RSD	5.172806	431.4991	1.904897	9.191408	.1944129	25.68438	53.25546
#1	13.12721	1.442993	133.4437	29.90939	48.27334	2.730004	2.648140
#2	14.54391	-.214851	136.5908	33.94702	48.44187	4.017000	9.330032
#3	14.05357	-2.66502	138.5905	35.90293	48.42999	4.642442	8.357613
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	35.17863	44.48407	50.32458	-8.89128	10.12814	18.95103	2.063608
SDEV	4.19030	.68531	.25618	3.41737	2.96677	3.46722	1.253668
%RSD	11.91151	1.540582	.5090546	38.43508	29.29233	18.29570	60.75125
#1	30.39387	43.86699	50.46999	-6.91300	7.541412	21.48906	1.957485
#2	36.94796	44.36359	50.47498	-6.92352	9.476410	20.36351	.8663752
#3	38.19406	45.22164	50.02879	-12.8373	13.36658	15.00052	3.366964
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.520854	670.5397	4456.177
SDEV	.734389	7.8067	205.377
%RSD	20.85826	1.164245	4.608805
#1	3.666385	674.3276	4219.466
#2	4.171582	661.5617	4562.066
#3	2.724595	675.7298	4586.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 15:41:56
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	106.0717	46191.39	949.8799	1014.550	49084.48	988.3034	999.9061
SDEV	.6341	472.57	7.2534	11.966	734.80	9.9503	8.9159
%RSD	.5978137	1.023069	.7636100	1.179428	1.497016	1.006802	.8916739
#1	106.3114	46719.21	949.7035	1026.509	49823.83	991.0594	1006.489
#2	106.5510	46047.36	957.2198	1014.563	49075.31	996.5851	1003.470
#3	105.3527	45807.59	942.7163	1002.577	48354.31	977.2656	989.7595
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	958.3988	1020.075	24562.81	49758.69	49677.59	979.7955	49569.43
SDEV	18.1288	1.268	297.78	76.65	630.36	12.1754	385.26
%RSD	1.891571	.1242584	1.212301	.1540369	1.268894	1.242649	.7772135
#1	974.9816	1020.355	24807.12	49830.53	50189.53	989.7944	50013.72
#2	961.1713	1018.691	24650.19	49767.52	49869.72	983.3550	49366.66
#3	939.0435	1021.179	24231.12	49678.00	48973.53	966.2370	49327.89
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	982.8903	981.6943	970.9335	1087.663	982.9005	986.1484	994.8309
SDEV	10.7786	5.1153	20.4634	11.830	3.0843	1.9254	11.3306
%RSD	1.096623	.5210717	2.107597	1.087619	.3137981	.1952418	1.138948
#1	987.9676	987.5126	984.5811	1095.552	983.6999	985.5424	987.1893
#2	990.1926	977.9036	980.8146	1093.375	985.5064	988.3038	1007.849
#3	970.5107	979.6666	947.4047	1074.061	979.4952	984.5989	989.4546
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1015.705	974.0390	987.3218	988.6485	984.8978	1033.974	979.3760
SDEV	3.680	11.9609	2.8021	6.3046	5.3227	11.986	7.3594
%RSD	.3623384	1.227968	.2838074	.6377009	.5404292	1.159257	.7514329
#1	1019.700	982.9188	984.0872	995.5754	980.5311	1039.522	983.2946
#2	1014.962	978.7601	988.8716	983.2456	990.8268	1042.182	983.9468
#3	1012.452	960.4380	989.0066	987.1245	983.3356	1020.219	970.8865
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1020.270	980.0187	4757.267
SDEV	6.846	16.9234	18.213
%RSD	.6710220	1.726847	.3828487
#1	1020.508	999.4068	4738.667
#2	1026.995	972.4409	4758.066
#3	1013.308	968.2084	4775.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 15:49:06
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2739101	35.30503	.2467926	.8140572	380.6594	.1678490	.9357159
SDEV	.3301866	6.48454	.0144730	.1510786	.7116	.1195428	.1729836
%RSD	120.5456	18.36719	5.864445	18.55872	.1869495	71.22046	18.48676
#1	.6505364	42.13409	.2633971	.9743350	380.0818	.2993811	1.127876
#2	.0342388	29.23113	.2368516	.6742692	381.4544	.1383455	.7924205
#3	.1369550	34.54987	.2401290	.7935675	380.4421	.0658204	.8868514
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4990043	-.010772	10.39872	-1425.66	15.31426	.4000393	17.51616
SDEV	.3683698	.253928	2.28088	2.93	2.82205	.0951456	33.60849
%RSD	73.82095	2357.382	21.93422	.2055744	18.42758	23.78406	191.8713
#1	.6616149	-.285441	11.67409	-1424.53	13.35283	.4023506	19.62157
#2	.0773101	.2154268	11.75666	-1428.98	18.54854	.4940082	-17.0955
#3	.7580880	.0376994	7.765423	-1423.45	14.04141	.3037591	50.02245
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.215741	3.676088	.3424086	.9051574	.5607915	2.458965	3.253026
SDEV	.241405	1.776979	.3383915	.3707741	1.300692	1.120428	1.545199
%RSD	19.85658	48.33886	98.82680	40.96238	231.9386	45.56503	47.50038
#1	1.079974	2.752295	.7259559	.6904389	-.940997	3.046950	4.840722
#2	1.072790	5.724682	.0860020	.6917436	1.295135	1.166942	3.164200
#3	1.494461	2.551286	.2152680	1.333290	1.328237	3.163004	1.754155
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5166285	1.989537	-.155162	-.377758	3.872549	-2.07000	.8701507
SDEV	.7014002	1.022737	2.050934	1.675728	.931886	.83098	1.658913
%RSD	135.7649	51.40580	1321.803	443.5985	24.06388	40.14413	190.6466
#1	.7602938	2.089217	-2.45649	-.116419	4.623600	-2.78425	.6545408
#2	1.063700	.9206096	1.479478	-2.16880	2.829676	-2.26778	-.670415
#3	-.274108	2.958785	.5115312	1.151946	4.164372	-1.15797	2.626326
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.276156	.3071721	4552.022
SDEV	.541579	.0581508	21.142
%RSD	42.43829	18.93100	.4644558
#1	1.802618	.3734533	4532.800
#2	1.305219	.2647246	4574.667
#3	.7206308	.2833386	4548.600
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-13 OPERATOR:
RUN TIME: 06/11/10 15:56:14
COMMENT: SDG:1005132 CLIENTID:SB86-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.079890	34878.22	90.76817	.7569230	11562.42	1.311514	2.393671
SDEV	.285095	302.84	.44191	.0442038	63.52	.077965	.352213
%RSD	356.8571	.8682799	.4868580	5.839938	.5493782	5.944668	14.71435
#1	.2396713	34572.39	90.52013	.7731931	11490.48	1.369368	2.027730
#2	-.171194	35177.98	91.27837	.7906860	11610.80	1.342322	2.730328
#3	-.308149	34884.30	90.50598	.7068900	11585.96	1.222852	2.422953
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	39.13770	6.473589	18744.78	-260.964	1099.288	62.00140	610.6271
SDEV	.43438	.076355	135.13	3.752	7.380	.67748	34.7489
%RSD	1.109882	1.179478	.7208984	1.437806	.6713818	1.092692	5.690684
#1	38.63613	6.387419	18589.56	-263.312	1092.707	61.24636	633.6943
#2	39.39039	6.532831	18836.22	-256.636	1107.268	62.20165	570.6609
#3	39.38660	6.500518	18808.54	-262.943	1097.888	62.55619	627.5259
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.935361	-1.14394	55.71108	24.03135	72.79205	3.574825	11.98426
SDEV	.382261	2.77239	.78647	.26696	1.94729	2.219136	.60516
%RSD	3.847478	242.3544	1.411699	1.110877	2.675139	62.07677	5.049617
#1	10.09799	-3.03461	54.80644	23.78701	70.72974	4.302896	11.30970
#2	9.498676	-2.43584	56.23246	24.31628	74.59914	1.083115	12.16361
#3	10.20941	2.038623	56.09432	23.99076	73.04727	5.338463	12.47948
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.544783	79.36527	69.50744	-19.8858	15.28497	17.78179	-.240936
SDEV	2.738439	.38066	2.85490	4.9404	1.33937	.21988	1.496408
%RSD	41.84156	.4796332	4.107324	24.84400	8.762631	1.236532	621.0822
#1	3.659569	79.37950	66.40841	-20.2969	16.58177	18.01434	.5092798
#2	6.866806	79.73862	72.03032	-24.6079	13.90675	17.57727	.7319624
#3	9.107972	78.97769	70.08359	-14.7527	15.36639	17.75376	-1.96405
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.561717	607.4607	4645.022
SDEV	1.322090	4.1823	12.781
%RSD	51.60950	.6884836	.2751447
#1	4.075779	604.2357	4651.133
#2	1.635470	612.1863	4630.333
#3	1.973904	605.9603	4653.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-14 OPERATOR:
RUN TIME: 06/11/10 16:03:22
COMMENT: SDG:1005132 CLIENTID:SB86-6-7 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2282584	65332.02	67.52998	1.795798	5503.042	1.191452	2.541682
SDEV	.1756997	895.39	1.18368	.223197	86.381	.265293	.449781
%RSD	76.97402	1.370517	1.752816	12.42884	1.569690	22.26637	17.69620
#1	.2739101	64399.27	66.20118	1.658924	5403.934	.8900375	2.025069
#2	.0342388	66184.66	68.47153	2.053354	5542.857	1.389514	2.753769
#3	.3766263	65412.12	67.91722	1.675115	5562.334	1.294805	2.846209
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	85.08808	8.708648	18915.09	3042.193	1644.419	57.19656	546.1292
SDEV	1.71488	.067267	330.48	76.365	31.191	1.11486	52.7145
%RSD	2.015417	.7724210	1.747199	2.510189	1.896799	1.949173	9.652388
#1	83.24392	8.762505	18540.38	2982.771	1616.241	55.92360	485.9443
#2	86.63475	8.633248	19165.03	3128.325	1677.935	57.99916	568.3381
#3	85.38558	8.730190	19039.84	3015.483	1639.082	57.66691	584.1053
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.05857	-4.58886	85.64597	21.57510	41.42802	.7637211	13.48166
SDEV	.93711	1.03040	1.91254	.96946	1.61791	.4561316	1.80467
%RSD	7.176187	22.45441	2.233082	4.493403	3.905356	59.72489	13.38609
#1	13.48620	-3.79964	83.73280	20.81461	39.84622	.6690450	13.17520
#2	13.70558	-5.75456	87.55789	22.66674	41.35808	.3623573	15.41994
#3	11.98393	-4.21238	85.64722	21.24394	43.07977	1.259761	11.84985
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.068044	46.85145	38.71735	-19.8295	11.04219	18.55809	-.025818
SDEV	1.190376	3.42561	.88176	3.0112	.82417	1.75521	.826592
%RSD	13.12716	7.311645	2.277432	15.18562	7.463803	9.457945	3201.584
#1	8.833770	44.13792	37.70058	-20.1559	11.06325	19.82447	-.557216
#2	10.35814	45.71575	39.17943	-22.6642	11.85563	16.55450	.9265144
#3	8.012222	50.70068	39.27203	-16.6683	10.20770	19.29529	-.446753
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.968970	779.2838	4486.066
SDEV	.959324	13.1183	66.918
%RSD	24.17060	1.683383	1.491682
#1	3.009427	767.7875	4524.066
#2	3.969408	793.5740	4408.800
#3	4.928074	776.4897	4525.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-15 OPERATOR:
RUN TIME: 06/11/10 16:10:31
COMMENT: SDG:1005132 CLIENTID:SB81-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4565168	2262.358	19.72673	1.037901	807.2169	.3838233	1.579546
SDEV	.1100622	56.315	.37100	.336275	8.7192	.1888456	.363671
%RSD	24.10913	2.489224	1.880716	32.39947	1.080153	49.20119	23.02378
#1	.4108651	2303.345	20.11400	1.416773	808.3409	.4047343	1.914766
#2	.3766263	2198.145	19.37447	.7748269	797.9903	.1853925	1.192899
#3	.5820589	2285.586	19.69173	.9221036	815.3196	.5613431	1.630973
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.597385	1.750346	2399.146	L-1041.31	145.5648	77.36851	442.6704
SDEV	.422674	.113099	54.970	5.37	5.1257	1.62150	70.7947
%RSD	4.404050	6.461538	2.291241	.5155898	3.521252	2.095816	15.99265
#1	9.766639	1.669561	2428.734	L-1037.05	147.2243	78.59930	455.8696
#2	9.116315	1.701875	2335.720	L-1047.34	139.8149	75.53117	505.9367
#3	9.909204	1.879603	2432.985	L-1039.55	149.6551	77.97504	366.2051
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.880684	-5.20587	9.748342	8.615950	29.77808	1.400514	12.99213
SDEV	.525336	1.91154	.509153	.453538	.87975	1.235924	.36237
%RSD	27.93324	36.71898	5.222972	5.263938	2.954366	88.24786	2.789179
#1	2.487097	-3.12802	9.841999	8.092920	30.41907	2.572019	13.04020
#2	1.564262	-5.59989	9.198862	8.900420	30.14008	.1089354	13.32807
#3	1.590691	-6.88969	10.20416	8.854509	28.77508	1.520589	12.60812
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.349039	40.12237	24.61095	-21.8122	12.98676	17.39278	-2.10099
SDEV	1.447988	.84782	1.04887	2.4260	1.48285	1.15674	.85389
%RSD	414.8497	2.113095	4.261791	11.12209	11.41817	6.650699	40.64237
#1	-2.00273	41.09174	25.08796	-21.7058	14.68997	16.06613	-2.15532
#2	.2641508	39.75622	25.33654	-24.2897	12.28726	17.92172	-1.22123
#3	.6914615	39.51916	23.40836	-19.4412	11.98303	18.19048	-2.92642
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.173625	928.4193	4423.177
SDEV	.281157	20.8901	84.957
%RSD	23.95624	2.250067	1.920721
#1	1.289270	943.5781	4341.999
#2	.8530891	904.5901	4511.466
#3	1.378518	937.0895	4416.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-16 OPERATOR:
RUN TIME: 06/11/10 16:17:39
COMMENT: SDG:1005132 CLIENTID:SB81-5-6 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5364072	13271.20	24.01147	.4910939	765.9716	.6650372	2.252584
SDEV	.2476893	451.88	.86783	.2685656	15.1525	.1691542	.862268
%RSD	46.17561	3.405000	3.614215	54.68722	1.978211	25.43530	38.27905
#1	.4108651	12752.33	23.03039	.2483718	748.7339	.4924837	1.257556
#2	.8217303	13482.88	24.32523	.7796134	771.9929	.6720540	2.780838
#3	.3766263	13578.39	24.67877	.4452964	777.1878	.8305738	2.719357
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	23.87052	2.633598	5023.128	-773.599	559.4415	44.58911	429.8082
SDEV	1.31519	.220550	203.886	17.031	20.7089	1.80755	5.0632
%RSD	5.509670	8.374468	4.058951	2.201561	3.701707	4.053791	1.178012
#1	22.40081	2.735926	4788.228	-793.071	535.7949	42.50243	435.1703
#2	24.27417	2.380472	5154.223	-761.480	574.3448	45.59266	425.1093
#3	24.93657	2.784397	5126.932	-766.244	568.1848	45.67223	429.1449
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.644025	-4.23490	19.45259	13.20824	19.20603	2.571708	12.77739
SDEV	.384259	.41600	.89217	.79547	.70402	2.063652	.93823
%RSD	6.808235	9.823197	4.586363	6.022498	3.665607	80.24441	7.342857
#1	5.226533	-4.60084	18.42258	12.31447	19.52670	.3323832	13.00947
#2	5.982887	-4.32140	19.95137	13.47170	19.69262	4.396868	11.74490
#3	5.722655	-3.78244	19.98383	13.83855	18.39876	2.985873	13.57779
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4859966	28.35214	14.63712	-19.9574	13.81677	17.31236	-.567480
SDEV	2.018686	.80904	.71929	2.0420	3.29443	1.19689	.434703
%RSD	415.3703	2.853533	4.914136	10.23165	23.84369	6.913475	76.60226
#1	2.607645	28.29092	15.14864	-19.0669	10.01496	17.35105	-.575809
#2	.2612633	29.19005	14.94806	-18.5119	15.83143	18.48944	-.997959
#3	-1.41092	27.57545	13.81467	-22.2934	15.60392	16.09660	-.128673
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.2120799	686.7766	4658.555
SDEV	.5863230	23.4370	113.749
%RSD	276.4633	3.412616	2.441718
#1	.8755405	659.7340	4789.333
#2	-.236440	699.3932	4582.600
#3	-.002861	701.2026	4603.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-17 OPERATOR:
RUN TIME: 06/11/10 16:24:47
COMMENT: SDG:1005132 CLIENTID:SB71-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.604885	115804.6	135.9664	.9500464	5435.914	2.470960	4.258016
SDEV	.518503	299.1	1.9715	.1256380	16.421	.423811	.261187
%RSD	85.71937	.2582704	1.449986	13.22441	.3020900	17.15167	6.134000
#1	-1.19836	115970.0	138.1738	1.061513	5426.254	2.930512	4.202832
#2	-.239671	115459.4	135.3449	.9747260	5426.612	2.386869	4.542385
#3	-.376626	115984.4	134.3806	.8138999	5454.874	2.095498	4.028830
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	109.8215	14.75677	38033.33	1953.223	3816.410	93.57885	633.4705
SDEV	.4556	.14085	53.58	12.684	6.567	.64113	28.4430
%RSD	.4148249	.9545006	.1408784	.6493896	.1720712	.6851228	4.490029
#1	109.7277	14.85371	37999.46	1967.669	3818.962	92.91658	636.2941
#2	109.4202	14.59520	38005.43	1948.093	3808.950	93.62346	603.7211
#3	110.3167	14.82140	38095.11	1943.907	3821.317	94.19651	660.3965
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.98697	-3.24309	136.1258	53.00886	82.65405	2.630750	12.32104
SDEV	.49880	4.49271	.7151	.42715	1.13142	.393257	1.86261
%RSD	2.773111	138.5317	.5253271	.8058060	1.368858	14.94846	15.11734
#1	18.37356	-7.42322	135.3878	53.44228	83.03673	2.187977	14.30889
#2	17.42393	-3.81373	136.1739	52.99602	81.38092	2.939398	10.61601
#3	18.16341	1.507677	136.8156	52.58828	83.54450	2.764876	12.03821
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.288360	81.39453	83.27964	-16.7006	12.27935	19.64842	-.495738
SDEV	1.006987	2.82231	.98044	2.7242	1.91499	.75907	1.565528
%RSD	16.01351	3.467441	1.177280	16.31208	15.59524	3.863277	315.7974
#1	5.141002	80.37317	84.36327	-14.1689	10.35154	20.28632	.9331369
#2	6.698635	79.22509	82.45400	-19.5833	14.18127	18.80889	-2.16914
#3	7.025443	84.58533	83.02166	-16.3496	12.30524	19.85006	-.251210
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.6772369	790.0143	4690.355
SDEV	1.002714	2.6816	19.733
%RSD	148.0595	.3394321	.4207121
#1	-.012123	788.9786	4669.999
#2	.2162975	788.0051	4691.667
#3	1.827536	793.0593	4709.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-18 OPERATOR:
RUN TIME: 06/11/10 16:31:55
COMMENT: SDG:1005132 CLIENTID:SB71D-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.045652	114893.6	134.2445	.8019974	7713.364	2.586977	3.690386
SDEV	.098839	2382.3	1.7328	.1619586	134.986	.420031	.666367
%RSD	216.5064	2.073460	1.290788	20.19440	1.750023	16.23638	18.05684
#1	.0684775	116163.4	133.5913	.9889287	7772.773	2.238552	4.363581
#2	-.102716	112145.4	132.9332	.7133371	7558.863	2.468997	3.031063
#3	-.102716	116372.0	136.2090	.7037263	7808.455	3.053382	3.676516
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	108.7437	11.41226	38524.25	1811.233	3759.211	88.43398	741.4235
SDEV	2.2676	.12619	679.84	45.570	74.455	1.82887	70.1926
%RSD	2.085226	1.105740	1.764711	2.515980	1.980590	2.068058	9.467271
#1	110.2572	11.34763	38825.03	1835.491	3799.869	88.78237	822.2663
#2	106.1366	11.33148	37745.91	1758.665	3673.280	86.45597	706.0349
#3	109.8374	11.55767	39001.83	1839.542	3804.485	90.06358	695.9693
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.86544	-2.84065	139.4656	46.58525	80.11589	4.230369	12.57801
SDEV	.53237	3.23545	4.0115	.92272	.93102	2.234743	1.32263
%RSD	2.679875	113.8981	2.876320	1.980710	1.162096	52.82619	10.51538
#1	19.26871	-5.42369	141.7257	47.03156	81.18688	6.714541	14.06851
#2	20.03592	-3.88666	134.8339	45.52423	79.49953	3.593046	12.12109
#3	20.29168	.7883987	141.8370	47.19996	79.66125	2.383519	11.54442
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.371841	79.78363	80.27858	-13.6923	13.17571	19.32643	.4849654
SDEV	2.915735	1.52824	1.32392	5.3086	.77357	1.00655	.4663950
%RSD	39.55233	1.915486	1.649151	38.77060	5.871195	5.208164	96.17079
#1	9.098472	80.28283	81.63500	-7.64429	13.88060	18.70673	.3989965
#2	4.005414	78.06821	80.21098	-15.8519	13.29841	18.78473	.9883641
#3	9.011638	80.99985	78.98975	-17.5808	12.34812	20.48782	.0675355
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.057186	742.2298	4724.956
SDEV	.835613	17.1061	68.435
%RSD	79.04124	2.304684	1.448363
#1	1.968992	752.1444	4664.400
#2	.8746078	722.4775	4799.200
#3	.3279583	752.0676	4711.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-19 OPERATOR:
RUN TIME: 06/11/10 16:39:03
COMMENT: SDG:1005132 CLIENTID:SB71-4-5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0684775	141453.1	308.1684	2.330594	851.5360	2.196561	6.652081
SDEV	.1234496	1425.9	2.9096	.032610	7.9618	.237764	.267599
%RSD	180.2776	1.008010	.9441509	1.399207	.9349908	10.82437	4.022790
#1	-.034239	139808.0	309.6065	2.340917	846.5081	2.454966	6.900206
#2	.0342388	142216.8	310.0789	2.294072	847.3844	1.987035	6.687501
#3	.2054325	142334.4	304.8198	2.356793	860.7156	2.147681	6.368535
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	107.9276	28.76493	20760.81	4338.978	2309.689	80.40408	621.8270
SDEV	1.6928	.22620	276.53	40.101	23.889	1.54716	84.2619
%RSD	1.568463	.7863685	1.331981	.9241995	1.034284	1.924230	13.55069
#1	106.4176	28.50642	20552.92	4315.371	2283.973	79.19004	612.3540
#2	107.6077	28.86187	20654.86	4385.279	2313.902	79.87608	542.7019
#3	109.7575	28.92650	21074.65	4316.283	2331.190	82.14613	710.4250
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	74.07282	-2.77508	113.9264	65.97990	76.41317	1.620915	13.48182
SDEV	.73785	3.22768	2.1023	1.38709	2.10373	1.190841	2.16333
%RSD	.9961171	116.3094	1.845279	2.102293	2.753097	73.46722	16.04627
#1	74.77590	-2.82385	111.6193	65.50942	77.66387	2.992696	12.33644
#2	73.30453	.4767075	114.4262	64.88923	73.98435	1.017269	15.97703
#3	74.13804	-5.97810	115.7338	67.54103	77.59128	.8527790	12.13200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.49719	71.89105	78.66740	-23.3714	14.09558	19.94340	.0858901
SDEV	1.17242	2.44198	2.10950	3.6014	1.34755	3.45826	1.303295
%RSD	8.686388	3.396777	2.681549	15.40944	9.560058	17.34040	1517.397
#1	14.75617	74.22137	79.37911	-20.1960	14.56690	18.33992	-.092732
#2	12.43666	69.35095	76.29410	-27.2845	15.14417	17.57794	-1.11888
#3	13.29874	72.10083	80.32900	-22.6337	12.57568	23.91236	1.469283
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.924478	771.9901	4400.933
SDEV	.342026	7.1467	52.384
%RSD	17.77240	.9257564	1.190297
#1	1.882162	764.5619	4398.267
#2	2.285693	772.5910	4349.933
#3	1.605579	778.8174	4454.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-20 OPERATOR:
RUN TIME: 06/11/10 16:49:52
COMMENT: SDG:1005132 CLIENTID:SB71D-4-5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0570646	191674.8	476.3342	2.204230	928.9791	3.270569	11.43225
SDEV	.0861657	1839.1	2.2004	.161997	10.4217	.038331	.51760
%RSD	150.9967	.9594743	.4619420	7.349351	1.121846	1.172007	4.527540
#1	.0684775	189623.3	478.5269	2.386707	917.0416	3.313846	10.97956
#2	.1369550	193175.6	474.1262	2.077363	936.2648	3.240890	11.32064
#3	-.034239	192225.6	476.3496	2.148619	933.6308	3.256971	11.99655
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	145.0719	35.36778	25599.13	6170.275	3367.635	105.5709	676.6807
SDEV	1.5542	.37173	136.68	62.194	10.388	.4178	20.5930
%RSD	1.071323	1.051046	.5339196	1.007963	.3084603	.3957866	3.043230
#1	143.4540	35.00155	25459.88	6242.059	3355.828	105.5579	700.2446
#2	145.2085	35.74477	25604.44	6132.527	3371.711	105.1597	667.6602
#3	146.5533	35.35701	25733.08	6136.240	3375.368	105.9951	662.1372
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	118.1483	.1573674	128.5702	98.36972	117.6832	2.525336	13.15980
SDEV	1.5830	4.221860	.6698	.31027	2.0071	.853078	1.57129
%RSD	1.339844	2682.805	.5209811	.3154094	1.705529	33.78078	11.94011
#1	116.3874	4.778019	128.1405	98.58928	115.7040	3.239488	11.36887
#2	119.4534	-.807117	129.3420	98.01476	119.7171	2.755825	14.30703
#3	118.6040	-3.49880	128.2281	98.50511	117.6285	1.580695	13.80349
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.521700	114.4016	119.3183	-21.4924	14.51357	20.98389	-.781924
SDEV	.728749	2.3597	2.8168	1.4329	1.84134	4.05655	1.166778
%RSD	7.653559	2.062683	2.360779	6.667094	12.68700	19.33176	149.2187
#1	8.680779	114.9044	116.1000	-21.4708	15.57349	23.17611	-1.75366
#2	9.968863	116.4694	121.3353	-22.9359	15.57984	23.47264	-1.10425
#3	9.915460	111.8310	120.5196	-20.0703	12.38738	16.30291	.5121324
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.7338876	1033.744	4640.889
SDEV	.1818032	12.708	9.753
%RSD	24.77262	1.229303	.2101457
#1	.9324781	1019.285	4629.733
#2	.5756536	1043.139	4647.800
#3	.6935311	1038.808	4645.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052615-BLK1 OPERATOR:
RUN TIME: 06/11/10 16:57:00
COMMENT: SDG:1005133 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5478201	43.86534	.6537605	.7163878	539.1444	.4086753	1.407982
SDEV	.4165325	6.08473	.0836738	.1710989	.9529	.0961648	.301217
%RSD	76.03453	13.87137	12.79885	23.88356	.1767488	23.53085	21.39352
#1	.2739101	50.88593	.7357786	.9115784	538.1573	.4615547	1.741683
#2	.3423876	40.11565	.5685238	.6452560	539.2167	.2976750	1.326068
#3	1.027163	40.59443	.6569792	.5923290	540.0590	.4667961	1.156194
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.581420	.4847116	48.53271	-1397.43	35.87568	1.269825	481.0557
SDEV	.202657	.1569258	4.80386	4.75	2.11698	.086052	43.5192
%RSD	5.658552	32.37509	9.898184	.3397175	5.900867	6.776685	9.046610
#1	3.610611	.3123698	43.51327	-1392.83	36.65894	1.185013	518.2562
#2	3.767899	.5224115	53.08717	-1402.31	33.47869	1.267396	433.1977
#3	3.365752	.6193535	48.99768	-1397.15	37.48941	1.357065	491.7133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7995632	-7.64264	.3578716	3.902121	H3.992417	.0825324	H13.13039
SDEV	.4770768	3.52739	.2186423	.221267	1.108261	.8644822	1.03010
%RSD	59.66718	46.15408	61.09520	5.670435	27.75915	1047.446	7.845136
#1	.7253142	-4.98215	.4905201	3.929062	2.735559	1.016866	H14.31120
#2	.3639642	L-11.6438	.1055157	4.108685	H4.412340	-.688929	H12.41600
#3	1.309411	-6.30197	.4775788	3.668617	H4.829351	-.080339	H12.66398
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.51737	13.46504	-.739444	-21.1695	10.68999	17.25112	.8301624
SDEV	.64558	1.91147	1.149843	4.5492	3.02364	1.22895	.3134055
%RSD	42.54615	14.19579	155.5010	21.48932	28.28477	7.123862	37.75232
#1	-2.14231	12.13801	-1.96129	-24.7956	13.90107	18.66777	.6616328
#2	-.852954	12.60115	.3214288	-22.6480	10.27152	16.61439	1.191774
#3	-1.55685	15.65596	-.578469	-16.0650	7.897386	16.47119	.6370803
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.1620031	.1755192	4553.200
SDEV	.4898254	.0931697	37.435
%RSD	302.3556	53.08233	.8221719
#1	.0111466	.1996602	4511.800
#2	-.234650	.0726550	4563.133
#3	.7095125	.2542425	4584.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052615-BS1 OPERATOR:
RUN TIME: 06/11/10 17:04:09
COMMENT: SDG:1005133 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	803.5038	79550.93	1468.395	1298.936	37916.98	2037.351	623.7800
SDEV	3.7548	423.16	10.939	4.120	148.90	4.558	2.5297
%RSD	.4673034	.5319378	.7449935	.3171571	.3926901	.2237125	.4055392
#1	799.2011	80039.53	1455.798	1302.741	38065.00	2032.088	625.8071
#2	805.1929	79302.50	1473.882	1299.505	37918.70	2040.008	620.9451
#3	806.1174	79310.76	1475.505	1294.561	37767.22	2039.956	624.5877
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1110.000	108000.0	1840.000	1690.000	52200.00	2770.000	811.0000
LOW	490.0000	43900.00	1280.000	1170.000	34200.00	1880.000	561.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	605.3336	1377.173	158443.5	26809.40	20105.60	2867.955	4085.811
SDEV	4.8547	5.714	491.7	147.84	131.36	9.080	78.706
%RSD	.8019948	.4149077	.3103535	.5514494	.6533429	.3165878	1.926331
#1	609.9487	1373.047	158984.1	26930.24	20255.75	2875.747	4114.916
#2	600.2703	1374.776	158022.9	26644.56	20011.93	2857.984	4145.820
#3	605.7817	1383.695	158323.3	26853.40	20049.12	2870.132	3996.698
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	738.0000	1540.000	214000.0	30600.00	27300.00	3650.000	6580.000
LOW	477.0000	1080.000	74200.00	17000.00	17100.00	2430.000	2540.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	451.8159	1443.733	739.3210	1037.348	655.0234	685.6429	786.2303
SDEV	2.5078	4.306	3.5353	4.747	3.9968	1.4177	3.3324
%RSD	.5550548	.2982687	.4781765	.4576477	.6101769	.2067644	.4238493
#1	449.4733	1448.688	741.5642	1032.572	650.4086	684.0059	789.7065
#2	454.4614	1441.611	735.2457	1042.066	657.3795	686.4518	785.9211
#3	451.5129	1440.899	741.1530	1037.406	657.2821	686.4708	783.0632
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	1970.000	930.0000	1410.000	918.0000	1030.000	1730.000
LOW	404.0000	1190.000	517.0000	905.0000	619.0000	626.0000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	729.3992	642.3095	661.3679	671.9568	692.4726	1641.892	-.918410
SDEV	2.3347	2.8980	5.2499	2.5576	3.3759	3.235	1.801044
%RSD	.3200899	.4511782	.7937971	.3806132	.4875142	.1970264	196.1046
#1	732.0093	640.2627	655.4711	674.8177	688.5901	1640.623	.3776252
#2	727.5099	641.0403	665.5339	669.8918	694.7164	1645.569	-.157889
#3	728.6783	645.6255	663.0988	671.1609	694.1113	1639.484	-2.97497
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	NOCHECK
HIGH	973.0000					2280.000	
LOW	645.0000					1220.000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	590.8296	3385.473	4807.866
SDEV	2.4396	9.498	31.236
%RSD	.4129147	.2805523	.6496863
#1	588.4082	3396.366	4771.933
#2	593.2871	3381.128	4823.133
#3	590.7936	3378.924	4828.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	705.0000	4510.000	
LOW	463.0000	1110.000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 17:11:18
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	103.0016	47022.25	958.5155	1001.096	48094.06	969.5772	983.4121
SDEV	.5983	665.99	3.4865	10.743	717.34	7.7758	14.3134
%RSD	.5808456	1.416339	.3637390	1.073108	1.491540	.8019754	1.455486
#1	103.5038	47517.40	955.6319	1012.748	48922.36	977.4692	999.7054
#2	103.1614	46265.10	957.5244	991.5851	47674.98	969.3393	977.6677
#3	102.3397	47284.26	962.3903	998.9556	47684.84	961.9231	972.8632
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	951.8998	1007.462	24235.66	51278.90	49798.39	975.6985	50226.95
SDEV	14.9976	3.386	226.03	463.63	343.12	15.1605	563.92
%RSD	1.575543	.3360564	.9326197	.9041351	.6890228	1.553809	1.122740
#1	967.7328	1010.887	24496.65	51357.89	50086.89	993.1109	50664.54
#2	937.9076	1004.117	24106.21	50780.85	49418.96	965.4283	49590.56
#3	950.0591	1007.381	24104.13	51697.96	49889.33	968.5562	50425.76
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	968.4421	976.1805	969.8641	1047.225	966.7694	989.8021	998.9688
SDEV	10.2777	6.4297	8.3872	15.289	6.1483	7.5132	3.4356
%RSD	1.061264	.6586593	.8647832	1.459965	.6359622	.7590609	.3439104
#1	979.8161	983.5075	976.0200	1062.781	971.8605	997.1788	998.5346
#2	965.6889	973.5554	960.3113	1046.676	959.9387	982.1595	995.7710
#3	959.8215	971.4788	973.2610	1032.217	968.5089	990.0678	1002.601
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1007.991	958.4352	970.9275	993.2735	988.0665	1012.864	980.6219
SDEV	5.935	7.1371	9.4819	9.7573	6.8639	8.857	6.8368
%RSD	.5888303	.7446662	.9765770	.9823403	.6946790	.8744069	.6971927
#1	1014.719	964.8367	975.3642	1004.280	993.6310	1023.078	987.4622
#2	1003.495	959.7294	960.0407	985.6860	980.3965	1007.317	973.7885
#3	1005.760	950.7395	977.3776	989.8541	990.1721	1008.197	980.6152
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1009.161	969.3826	4624.667
SDEV	3.637	10.9172	34.734
%RSD	.3604413	1.126203	.7510600
#1	1011.895	977.8609	4606.200
#2	1005.033	957.0642	4664.733
#3	1010.555	973.2228	4603.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 17:18:27
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3538005	54.05367	.2578793	1.156789	382.5157	.4829570	1.264445
SDEV	.2279729	6.14873	.0334621	.204597	2.5012	.0567377	.120085
%RSD	64.43543	11.37524	12.97586	17.68664	.6538688	11.74799	9.497058
#1	.2396713	60.94164	.2554729	1.367981	381.1332	.5418177	1.134243
#2	.2054325	49.11844	.2924796	1.142891	381.0110	.4784411	1.288242
#3	.6162977	52.10091	.2256855	.9594956	385.4029	.4286122	1.370850
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.040293	.1615702	11.59702	-1423.23	17.44731	.4612598	25.19221
SDEV	.573416	.6334994	14.08179	3.41	3.83796	.1429839	27.71534
%RSD	55.12059	392.0892	121.4260	.2396031	21.99741	30.99856	110.0155
#1	.7616444	-.430855	7.671685	-1427.01	13.67753	.5032539	-4.85488
#2	.6594521	.0861704	-.105626	-1420.38	17.31443	.3019812	49.75618
#3	1.699782	.8293952	27.22500	-1422.31	21.34999	.5785441	30.67532
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8088482	5.218605	.3376865	1.533199	.3545038	1.798304	2.502455
SDEV	1.000441	1.941152	.2469260	.961000	1.129133	.659176	1.639700
%RSD	123.6871	37.19675	73.12287	62.67942	318.5108	36.65544	65.52367
#1	.6634386	3.027099	.0938918	.6891837	1.490887	1.267100	1.395392
#2	-.110931	6.721846	.5876291	1.331308	.3398611	1.591804	1.725788
#3	1.874037	5.906870	.3315385	2.579106	-.767237	2.536008	4.386184
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.865422	3.091353	-1.01451	-.140213	2.763471	-2.34581	1.673515
SDEV	2.107555	.898969	2.12935	2.980600	.626026	.63097	1.979435
%RSD	112.9800	29.08011	209.8905	2125.771	22.65359	26.89764	118.2801
#1	1.064503	2.350270	1.059159	-3.18313	3.486198	-1.64939	-.223178
#2	.2757353	2.832416	-.907190	-.011405	2.389566	-2.87940	1.517289
#3	4.256028	4.091373	-3.19549	2.773895	2.414649	-2.50864	3.726435
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.544935	.3282940	4575.955
SDEV	.341342	.3508137	76.167
%RSD	22.09426	106.8596	1.664505
#1	1.698260	.2202794	4503.733
#2	1.782729	.0441891	4568.600
#3	1.153816	.7204135	4655.533
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

Maintenance: none

Method(s) (circle one): ILM04.1 ILM05.4 Others 7470B

Operator(s): NSB 1151 Date/Time 5/28/10 1038 to 5/28/10 1328

Printed: 5/28/2010 1:33:10 PM

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005132	Soil	complete
1005133	Soil	↓
1005178	Soil	

Batch
0052616
0052620
0052631

HG Run Log (V4)

File Name: V4052810

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	CAL1	S0	CALIB STD	1.0	28 MAY 10	10:38:51	2102	
	CAL2	S0.2	CALIB STD	1.0	28 MAY 10	10:40:44	4229	
	CAL3	S0.5	CALIB STD	1.0	28 MAY 10	10:42:40	7471	
	CAL4	S1.0	CALIB STD	1.0	28 MAY 10	10:44:31	12937	
	CAL5	S5.0	CALIB STD	1.0	28 MAY 10	10:46:27	54802	
	CAL6	S10.0	CALIB STD	1.0	28 MAY 10	10:48:22	105453	
	ICV1	ICV	ICV	1.0	28 MAY 10	10:50:33	3.97	
	ICB1	ICB	ICB	1.0	28 MAY 10	10:52:23	-.057	
	CRL1	CRI	CRI	1.0	28 MAY 10	10:54:13	.199	
	CCV1	CCV1	CCV	1.0	28 MAY 10	10:56:18	5.35	
	CCB1	CCB1	CCB	1.0	28 MAY 10	10:58:09	-.046	
	0052631-BLK1	PBS	BLANK	1.0	28 MAY 10	10:59:59	.003	
	0052631-BS1	LCSS	LCS	1.0	28 MAY 10	11:01:51	7.40	
	1005178-01	59SB13-01	SAMPLE	1.0	28 MAY 10	11:03:41	-.104	
	0052631-DUP1	59SB13-01D	DUPLICATE	1.0	28 MAY 10	11:05:31	.003	
	0052631-MS1	59SB13-01S	MATRIX SPIKE	1.0	28 MAY 10	11:07:43	1.16	
	0052631-MSD1	59SB13-01SD	MATRIX SPIKE	1.0	28 MAY 10	11:09:39	1.17	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 6/08/10

HG Run Log (V4)

File Name: V4052810

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	SDI1005178-01	SDI1005178-01	SDI	5	28 MAY 10	11:11:30	.019	
	1005178-02	59SB13-01D	SAMPLE	1.0	28 MAY 10	11:13:35	.026	
	1005178-03	59SB13-05	SAMPLE	1.0	28 MAY 10	11:15:38	.013	
	1005178-04	59SD02	SAMPLE	1.0	28 MAY 10	11:17:29	.095	
	CCV2	CCV2	CCV	1.0	28 MAY 10	11:19:33	5.48	
	CCB2	CCB2	CCB	1.0	28 MAY 10	11:21:44	-.058	
	1005178-05	59SD03	SAMPLE	1.0	28 MAY 10	11:23:39	.700	
	0052616-BLK1	PBS	BLANK	1.0	28 MAY 10	11:25:41	-.016	
	0052616-BS1	LCSS	LCS	1.0	28 MAY 10	11:27:53	7.50	
	1005133-01	SS73-0-1	SAMPLE	1.0	28 MAY 10	11:29:55	.154	
	0052616-DUP1	SS73-0-1D	DUPLICATE	1.0	28 MAY 10	11:31:46	.227	
	0052616-MS1	SS73-0-1S	MATRIX SPIKE	1.0	28 MAY 10	11:33:38	1.19	
	0052616-MSD1	SS73-0-1SD	MATRIX SPIKE	1.0	28 MAY 10	11:35:38	1.28	
	SDI1005133-01	SDI1005133-01	SDI	5	28 MAY 10	11:37:34	-.063	
	1005133-02	SB74-4-5	SAMPLE	1.0	28 MAY 10	11:39:24	-.017	
	1005133-03	SS75-0-1	SAMPLE	1.0	28 MAY 10	11:41:14	.293	
	CCV3	CCV3	CCV	1.0	28 MAY 10	11:43:27	5.56	
	CCB3	CCB3	CCB	1.0	28 MAY 10	11:45:19	-.052	
	1005133-04	SB75-3.5-4.5	SAMPLE	1.0	28 MAY 10	11:47:21	.121	
	1005133-05	SS63-0-1	SAMPLE	1.0	28 MAY 10	11:49:23	.134	
	1005133-06	SB63-5.5-6.5	SAMPLE	1.0	28 MAY 10	11:51:24	.007	
	1005133-07	SS61-0-1	SAMPLE	1.0	28 MAY 10	11:53:15	.124	
	1005133-08	SS61D-0-1	SAMPLE	1.0	28 MAY 10	11:55:08	.035	
	1005133-09	SB61-6-7	SAMPLE	1.0	28 MAY 10	11:57:04	-.016	
	1005133-10	SB61D-6-7	SAMPLE	1.0	28 MAY 10	11:59:05	.003	
	1005133-11	SS67-0-1	SAMPLE	1.0	28 MAY 10	12:00:57	.149	
	1005133-12	SS72-0-1	SAMPLE	1.0	28 MAY 10	12:03:03	.111	
	1005133-13	SB72-2-3	SAMPLE	1.0	28 MAY 10	12:05:04	.015	
	CCV4	CCV4	CCV	1.0	28 MAY 10	12:07:09	5.55	
	CCB4	CCB4	CCB	1.0	28 MAY 10	12:09:00	-.061	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 06/08/10

HG Run Log (V4)

File Name: V4052810

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	1005133-14	SS88-0-1	SAMPLE	1.0	28 MAY 10	12:10:54	.139	
	1005133-15	SB88-2.5-3.5	SAMPLE	1.0	28 MAY 10	12:12:47	-.042	
	1005133-16	SS76-0-1	SAMPLE	1.0	28 MAY 10	12:14:43	.110	
	1005133-17	SB76-6-7	SAMPLE	1.0	28 MAY 10	12:16:39	.025	
	1005133-18	SS87-0-1	SAMPLE	1.0	28 MAY 10	12:18:30	.271	
	1005133-19	SB87-3-4	SAMPLE	1.0	28 MAY 10	12:20:21	.165	
	1005133-20	SS68-0-1	SAMPLE	1.0	28 MAY 10	12:22:16	.040	
	0052620-BLK1	PBS	BLANK	1.0	28 MAY 10	12:24:16	.004	
	0052620-BS1	LCSS	LCS	1.0	28 MAY 10	12:26:08	7.59	
C	1005132-01	SB85-1.5-2.5	SAMPLE	1.0	28 MAY 10	12:28:00	.245	
	CCV5	CCV5	CCV	1.0	28 MAY 10	12:29:52	5.57	
	CCB5	CCB5	CCB	1.0	28 MAY 10	12:31:53	-.059	
	0052620-DUP1	SB85-1.5-2.5D	DUPLICATE	1.0	28 MAY 10	12:33:43	.173	
	0052620-MS1	SB85-1.5-2.5S	MATRIX SPIKE	1.0	28 MAY 10	12:35:47	1.63	
	0052620-MSD1	SB85-1.5-2.5SD	MATRIX SPIKE	1.0	28 MAY 10	12:37:49	1.60	
	SDI1005132-01	SDI1005132-01	SDI	5	28 MAY 10	12:39:42	.027	
	1005132-02	SB78-3.5-4.5	SAMPLE	1.0	28 MAY 10	12:41:36	.283	
	1005132-03	SS77-0-1	SAMPLE	1.0	28 MAY 10	12:43:42	.337	
	1005132-04	SB77-3.5-4.5	SAMPLE	1.0	28 MAY 10	12:45:35	.510	
	1005132-05	SS79-0-1	SAMPLE	1.0	28 MAY 10	12:47:31	.334	
G	1005132-06	SB79-11-12	SAMPLE	1.0	28 MAY 10	12:49:25	.537	
	1005132-07	SS83-0-1	SAMPLE	1.0	28 MAY 10	12:51:17	.632	
	CCV6	CCV6	CCV	1.0	28 MAY 10	12:53:08	5.61	
	CCB6	CCB6	CCB	1.0	28 MAY 10	12:54:58	-.062	
	1005132-08	SB83-6.5-7.5	SAMPLE	1.0	28 MAY 10	12:56:48	.494	
	1005132-09	SS62-0-1	SAMPLE	1.0	28 MAY 10	12:58:44	.850	
	1005132-10	SS74-0-1	SAMPLE	1.0	28 MAY 10	13:00:41	.672	
	1005132-11	SS86-0-1	SAMPLE	1.0	28 MAY 10	13:02:41	.149	
	1005132-12	SB86-3-4	SAMPLE	1.0	28 MAY 10	13:04:55	.070	
	1005132-13	SS84-0-1	SAMPLE	1.0	28 MAY 10	13:06:52	.076	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 6/9/10

HG Run Log (V4)

File Name: V4052810

Cup	Sample ID	Client ID	Sample Type	DF	Date	Time	Results	Comments
	1005132-14	SB84-6-7	SAMPLE	1.0	28 MAY 10	13:08:43	.064	
	1005132-15	SS81-0-1	SAMPLE	1.0	28 MAY 10	13:10:36	.037	
	1005132-16	SB81-5-6	SAMPLE	1.0	28 MAY 10	13:12:38	.712	
	1005132-17	SS71-0-1	SAMPLE	1.0	28 MAY 10	13:14:30	.664	
	CCV7	CCV7	CCV	1.0	28 MAY 10	13:16:24	5.70	
	CCB7	CCB7	CCB	1.0	28 MAY 10	13:18:14	-.076	
	1005132-18	SS71D-0-1	SAMPLE	1.0	28 MAY 10	13:20:16	.619	
	1005132-19	SB71-4-5	SAMPLE	1.0	28 MAY 10	13:22:09	.204	
	1005132-20	SB71D-4-5	SAMPLE	1.0	28 MAY 10	13:24:10	.403	
	CCV8	CCV8	CCV	1.0	28 MAY 10	13:26:21	5.67	
	CCB8	CCB8	CCB	1.0	28 MAY 10	13:28:13	-.097	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: _____ Date: 06/08/10

Standards/QC Preparation Log for Analysis of Cold Vapor Mercury

COMPUCHEM a division of Liberty Analytical Corp. WORKSHEET 1 NNN

Seq. File Name: V405 2810

REAGENTS	REF #[1]	MANUFACTURER	LOT #	EXPIRATION DATE
Sodium Chloride (NaCL)	1m2-188-15	JTBAKER	H14614	08/12
Hydrochloric Acid (HCL)	OD25012	Caledon	72420	04/13
Hydroxylamine Hydrochloride (NH_2OH-HCL)	0D13003	JT BAKER	H51598	04/13
Stannous Chloride ($SnCL_2$-$2H_2O$)	9L30015	JT BAKER	H13584	12/12

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
$SnCL_2$– 05-25-10-NB Stannous chloride	Place in a 1000 mL volumetric flask containing 500 mL of reagent water: 100 g of $SnCl_2$-$2H_2O$ Baker Instra-analyzed or equivalent 250 mL of HCL Baker Instra-analyzed or equivalent Dilute to 1000 mL with reagent water. Prepare as needed
HCL– 05-28-10 – NB Hydrochloric Acid	Place in a 2 L volumetric flask: 1000 mL of deionized water 200 mL of concentrated HCL Baker Instra-analyzed or equivalent Dilute to 2000 mL with reagent water. Prepare as needed
NH_2OH-HCL– 05-26-10 –NB Hydroxylamine hydrochloride	Place in a 2000 ml volumetric flask: 240.0 g of NH_2OH-HCl Baker Instra-analyzed or equivalent 240.0 g NaCl Baker Instra-analyzed or equivalent Dilute to 2000 mL with reagent water. Place solution in a repipetor bottle. Prepare as needed

Standard Solutions Prepared By: [signature]

Entered By: [signature] Date: 05/28/10

Reviewed By: [signature] Date: 060816

[1]Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

[2]Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

CompuChem, a Division of Liberty Analytical Corp.

Initial Calibration Log

Analyst: NSB 1151 Analysis Date: 5/28/10 Work Order(s): 1005132, 1005133, 1005178

Calibration Data (see attached calibration curve plot)

ABSORBANCE READING	Theoretical Concentration	Calculated Concentration
2102	0	-0.0260007
4230	0.2	0.179688809
7472	0.5	0.493056007
12938	1	1.021391945
54803	5	5.06800446
105454	10	9.963859483

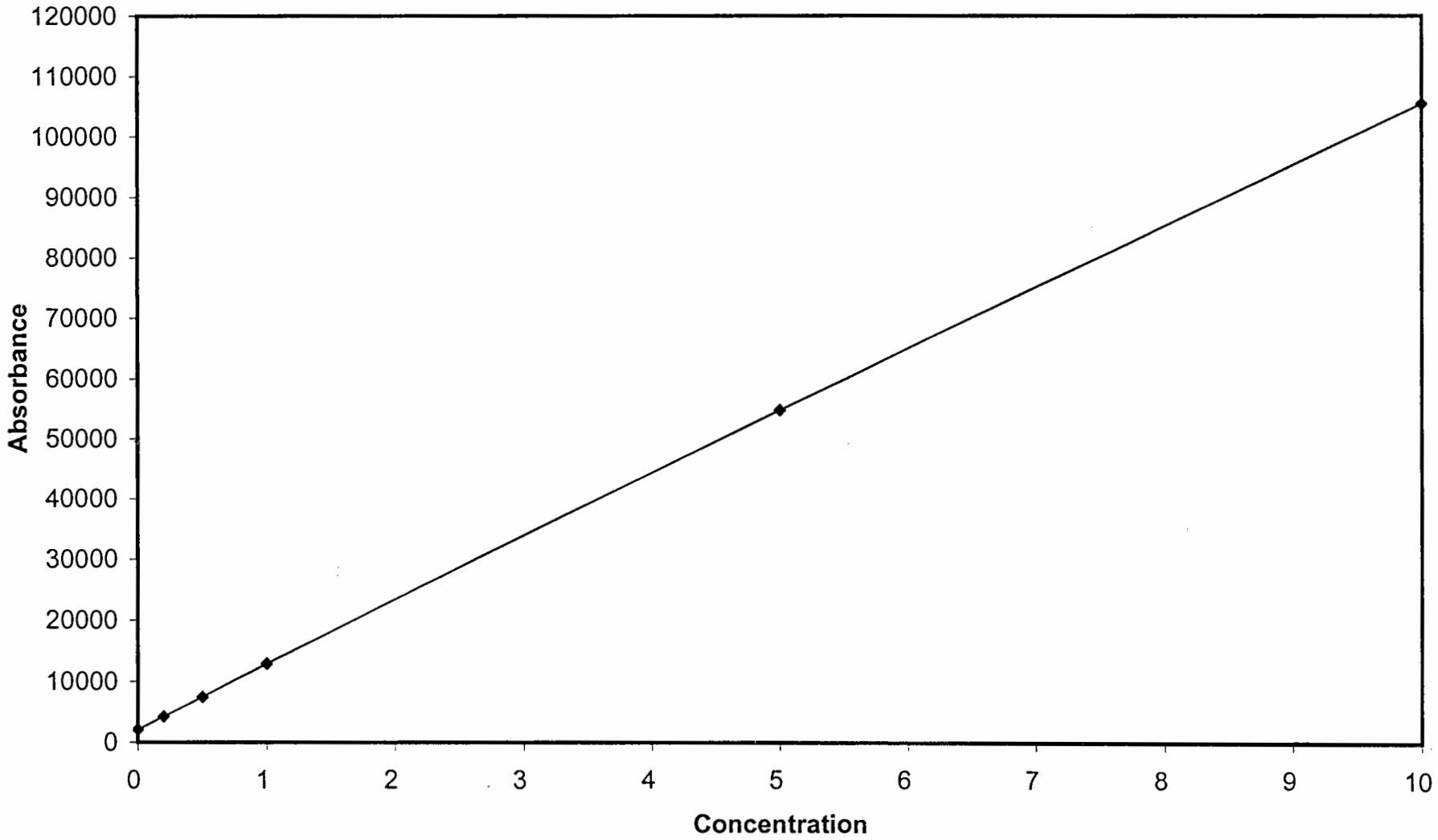
Regression Output

Constant	-0.229177092
Correlation Coeff.	0.999952854
No. of Observations	5
Degrees of Freedom	4
X Coefficient(s)	9.66586E-05

Reviewed by: [signature] Date: 06/07/10

Analyst: NSB 1151

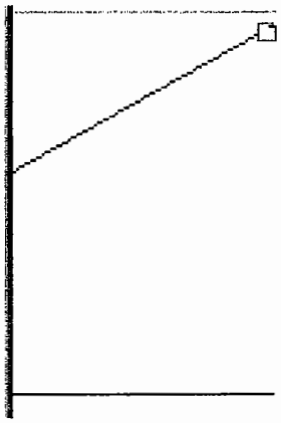
Analysis Date: _____



Reviewed by: _____

Date: 060716

Protocol: INSTIDV4
Folder: 040510



Type: HP LaserJet

Where: Wetchem La

Commer: Wetchem La

Accepted Date:

of copies: 1

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
01	.00000	-.026	-.026	2102	0	2102				
02	.20000	.180	-.020	4230	0%	4229				
03	.50000	.493	-.007	7472	0%	7471				
04	1.0000	1.02	.021	12938	0%	12937				
05	5.0000	5.07	.068	54803	0%	54802				
06	10.000	9.96	-.036	105454	0%	105453				
07										
08										
09										
10										

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 1 10:38:51 28 May 10 HG

Hg .000 ppb 2102

*** Standard: 2 Rep: 1 Seq: 2 10:40:44 28 May 10 HG

Hg .200 ppb 4229

*** Standard: 3 Rep: 1 Seq: 3 10:42:40 28 May 10 HG

Hg .500 ppb 7471

*** Standard: 4 Rep: 1 Seq: 4 10:44:31 28 May 10 HG

Hg 1.00 ppb 12937

*** Standard: 5 Rep: 1 Seq: 5 10:46:27 28 May 10 HG

Hg 5.00 ppb 54802

*** Standard: 6 Rep: 1 Seq: 6 10:48:22 28 May 10 HG

Hg 10.0 ppb 105453

*** Check Standard: 3 Ck3 ICV Seq: 7 10:50:33 28 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.2	3.97	4.00	ppb	.000

*** Check Standard: 1 Ck1 ICB Seq: 8 10:52:23 28 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.057	.200	ppb	.000

*** Check Standard: 4 Ck4 CRI Seq: 9 10:54:13 28 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		99.5	.199	.200	ppb	.000

*** Check Standard: 2 Ck2 CCV Seq: 10 10:56:18 28 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		107.	5.35	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 11 10:58:09 28 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.046	.200	ppb	.000

*** Sample ID: PBS Seq: 12 10:59:59 28 May 10 HG
0052631-BLK1

Hg .003 ppb .000 .003

==========

*** Sample ID: LCSS Seq: 13 11:01:51 28 May 10 HG
0052631-BS1

Hg 7.40 ppb .000 7.40

==========

*** Sample ID: 59SB13-01 Seq: 14 11:03:41 28 May 10 HG
1005178-01

Hg -.104 ppb .000 -.104

==========

*** Sample ID: 59SB13-01D Seq: 15 11:05:31 28 May 10 HG
0052631-DUP1

Hg .003 ppb .000 .003

==========

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 59SB13-01S				Seq: 16	11:07:43 28 May 10	HG		
				0052631-MS1				
Hg	1.16	ppb	.000	1.16				
*** Sample ID: 59SB13-01S				Seq: 17	11:09:39 28 May 10	HG		
				0052631-MSD1				
Hg	1.17	ppb	.000	1.17				
*** Sample ID: 59SB13-01				Seq: 18	11:11:30 28 May 10	HG		
				SDI1005178-01 5X				
Hg	.019	ppb	.000	.019				
*** Sample ID: 59SB13-01D				Seq: 19	11:13:35 28 May 10	HG		
				1005178-02				
Hg	.026	ppb	.000	.026				
*** Sample ID: 59SB13-05				Seq: 20	11:15:38 28 May 10	HG		
				1005178-03				
Hg	.013	ppb	.000	.013				
*** Sample ID: 59SD02				Seq: 21	11:17:29 28 May 10	HG		
				1005178-04				
Hg	.095	ppb	.000	.095				
*** Check Standard: 2 Ck2 CCV				Seq: 22	11:19:33 28 May 10	HG		
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		110.	5.48	5.00	ppb	.000		
*** Check Standard: 1 Ck1 CCB				Seq: 23	11:21:44 28 May 10	HG		
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.058	.200	ppb	.000			
*** Sample ID: 59SD03				Seq: 24	11:23:39 28 May 10	HG		
				1005178-05				
Hg	.700	ppb	.000	.700				
*** Sample ID: PBS				Seq: 25	11:25:41 28 May 10	HG		
				0052616-BLK1				
Hg	-.016	ppb	.000	-.016				
*** Sample ID: LCSS				Seq: 26	11:27:53 28 May 10	HG		
				0052616-BS1				
Hg	7.50	ppb	.000	7.50				
*** Sample ID: SS73-0-1				Seq: 27	11:29:55 28 May 10	HG		
				1005133-01				
Hg	.154	ppb	.000	.154				
*** Sample ID: SS73-0-1D				Seq: 28	11:31:46 28 May 10	HG		
				0052616-DUP1				
Hg	.227	ppb	.000	.227				

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: SS73-0-1S Seq: 29 11:33:38 28 May 10 HG
0052616-MS1

Hg	1.19	ppb	.000	1.19					=

*** Sample ID: SS73-0-1SD Seq: 30 11:35:38 28 May 10 HG
0052616-MSD1

Hg	1.28	ppb	.000	1.28					=

*** Sample ID: SS73-0-1 Seq: 31 11:37:34 28 May 10 HG
SDI1005133-01 5X

Hg	-.063	ppb	.000	-.063					=

*** Sample ID: SB74-4-5 Seq: 32 11:39:24 28 May 10 HG
1005133-02

Hg	-.017	ppb	.000	-.017					=

*** Sample ID: SS75-0-1 Seq: 33 11:41:14 28 May 10 HG
1005133-03

Hg	.293	ppb	.000	.293					=

*** Check Standard: 2 Ck2 CCV Seq: 34 11:43:27 28 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		111.	5.56	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 35 11:45:19 28 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.052	.200	ppb	.000

*** Sample ID: SB75-3.5-4 Seq: 36 11:47:21 28 May 10 HG
1005133-04

Hg	.121	ppb	.000	.121					=

*** Sample ID: SS63-0-1 Seq: 37 11:49:23 28 May 10 HG
1005133-05

Hg	.134	ppb	.000	.134					=

*** Sample ID: SB63-5.5-6 Seq: 38 11:51:24 28 May 10 HG
1005133-06

Hg	.007	ppb	.000	.007					=

*** Sample ID: SS61-0-1 Seq: 39 11:53:15 28 May 10 HG
1005133-07

Hg	.124	ppb	.000	.124					=

*** Sample ID: SS61D-0-1 Seq: 40 11:55:08 28 May 10 HG
1005133-08

Hg	.035	ppb	.000	.035					=

*** Sample ID: SB61-6-7 Seq: 41 11:57:04 28 May 10 HG
1005133-09

Hg	-.016	ppb	.000	-.016					=

Line	Conc.	Units	SD/RSD	1	2	3	4	5	
*** Sample ID: SB61D-6-7				Seq: 42		11:59:05 28 May 10			HG
				1005133-10					
Hg	.003	ppb	.000	.003					
*** Sample ID: SS67-0-1				Seq: 43		12:00:57 28 May 10			HG
				1005133-11					
Hg	.149	ppb	.000	.149					
*** Sample ID: SS72-0-1				Seq: 44		12:03:03 28 May 10			HG
				1005133-12					
Hg	.111	ppb	.000	.111					
*** Sample ID: SB72-2-3				Seq: 45		12:05:04 28 May 10			HG
				1005133-13					
Hg	.015	ppb	.000	.015					
*** Check Standard: 2 Ck2 CCV				Seq: 46		12:07:09 28 May 10			HG
Line	Flag	%Rcv.	Found	True	Units	SD/RSD			
Hg		111.	5.55	5.00	ppb	.000			
*** Check Standard: 1 Ck1 CCB				Seq: 47		12:09:00 28 May 10			HG
Line	Flag	Found	Range(+/-)	Units		SD/RSD			
Hg		-.061	.200	ppb		.000			
*** Sample ID: SS88-0-1				Seq: 48		12:10:54 28 May 10			HG
				1005133-14					
Hg	.139	ppb	.000	.139					
*** Sample ID: SB88-2.5-3				Seq: 49		12:12:47 28 May 10			HG
				1005133-15					
Hg	-.042	ppb	.000	-.042					
*** Sample ID: SS76-0-1				Seq: 50		12:14:43 28 May 10			HG
				1005133-16					
Hg	.110	ppb	.000	.110					
*** Sample ID: SB76-6-7				Seq: 51		12:16:39 28 May 10			HG
				1005133-17					
Hg	.025	ppb	.000	.025					
*** Sample ID: SS87-0-1				Seq: 52		12:18:30 28 May 10			HG
				1005133-18					
Hg	.271	ppb	.000	.271					
*** Sample ID: SB87-3-4				Seq: 53		12:20:21 28 May 10			HG
				1005133-19					
Hg	.165	ppb	.000	.165					
*** Sample ID: SS68-0-1				Seq: 54		12:22:16 28 May 10			HG
				1005133-20					
Hg	.040	ppb	.000	.040					

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: PBS Seq: 55 12:24:16 28 May 10 HG
0052620-BLK1

Hg	.004	ppb	.000	.004				

*** Sample ID: LCSS Seq: 56 12:26:08 28 May 10 HG
0052620-BS1

Hg	7.59	ppb	.000	7.59				

*** Sample ID: SB85-1.5-2 Seq: 57 12:28:00 28 May 10 HG
1005132-01

Hg	.245	ppb	.000	.245				

*** Check Standard: 2 Ck2 CCV Seq: 58 12:29:52 28 May 10 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		111.	5.57	5.00	ppb	.000

*** Check Standard: 1 Ck1 CCB Seq: 59 12:31:53 28 May 10 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.059	.200	ppb	.000

*** Sample ID: SB85-1.5-2 Seq: 60 12:33:43 28 May 10 HG
0052620-DUP1

Hg	.173	ppb	.000	.173				

*** Sample ID: SB85-1.5-2 Seq: 61 12:35:47 28 May 10 HG
0052620-MS1

Hg	1.63	ppb	.000	1.63				

*** Sample ID: SB85-1.5-2 Seq: 62 12:37:49 28 May 10 HG
0052620-MSD1

Hg	1.60	ppb	.000	1.60				

*** Sample ID: SB85-1.5-2 Seq: 63 12:39:42 28 May 10 HG
SDI1005132-01 5X

Hg	.027	ppb	.000	.027				

*** Sample ID: SB78-3.5-4 Seq: 64 12:41:36 28 May 10 HG
1005132-02

Hg	.283	ppb	.000	.283				

*** Sample ID: SS77-0-1 Seq: 65 12:43:42 28 May 10 HG
1005132-03

Hg	.337	ppb	.000	.337				

*** Sample ID: SB77-3.5-4 Seq: 66 12:45:35 28 May 10 HG
1005132-04

Hg	.510	ppb	.000	.510				

*** Sample ID: SS79-0-1 Seq: 67 12:47:31 28 May 10 HG
1005132-05

Hg	.334	ppb	.000	.334				

*** Sample ID: SB79-11-12 Seq: 68 12:49:25 28 May 10 HG
1005132-06

Hg	.537	ppb	.000	.537				

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Sample ID: SS83-0-1              Seq:  69     12:51:17 28 May 10   HG
                          1005132-07
Hg    .632    ppb       .000      .632
                                                                          =
*** Check Standard: 2  Ck2 CCV       Seq:  70     12:53:08 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          112.     5.61    5.00  ppb         .000
                                                                          =
*** Check Standard: 1  Ck1 CCB       Seq:  71     12:54:58 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.062     .200    ppb         .000
                                                                          =
*** Sample ID: SB83-6.5-7            Seq:  72     12:56:48 28 May 10   HG
                          1005132-08
Hg    .494    ppb       .000      .494
                                                                          =
===============================================================================
*** Sample ID: SS62-0-1              Seq:  73     12:58:44 28 May 10   HG
                          1005132-09
Hg    .850    ppb       .000      .850
                                                                          =
===============================================================================
*** Sample ID: SS74-0-1              Seq:  74     13:00:41 28 May 10   HG
                          1005132-10
Hg    .672    ppb       .000      .672
                                                                          =
===============================================================================
*** Sample ID: SS86-0-1              Seq:  75     13:02:41 28 May 10   HG
                          1005132-11
Hg    .149    ppb       .000      .149
                                                                          =
===============================================================================
*** Sample ID: SB86-3-4              Seq:  76     13:04:55 28 May 10   HG
                          1005132-12
Hg    .070    ppb       .000      .070
                                                                          =
===============================================================================
*** Sample ID: SS84-0-1              Seq:  77     13:06:52 28 May 10   HG
                          1005132-13
Hg    .076    ppb       .000      .076
                                                                          =
===============================================================================
*** Sample ID: SB84-6-7              Seq:  78     13:08:43 28 May 10   HG
                          1005132-14
Hg    .064    ppb       .000      .064
                                                                          =
===============================================================================
*** Sample ID: SS81-0-1              Seq:  79     13:10:36 28 May 10   HG
                          1005132-15
Hg    .037    ppb       .000      .037
                                                                          =
===============================================================================
*** Sample ID: SB81-5-6              Seq:  80     13:12:38 28 May 10   HG
                          1005132-16
Hg    .712    ppb       .000      .712
                                                                          =
===============================================================================
*** Sample ID: SS71-0-1              Seq:  81     13:14:30 28 May 10   HG
                          1005132-17
Hg    .664    ppb       .000      .664
                                                                          =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Check Standard: 2  Ck2 CCV      Seq:  82      13:16:24 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          114.     5.70    5.00   ppb         .000
                                                                              =
*** Check Standard: 1  Ck1 CCB      Seq:  83      13:18:14 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.076     .200     ppb         .000
                                                                              =
*** Sample ID: SS71D-0-1             Seq:  84     13:20:16 28 May 10   HG
                           1005132-18
Hg    .619    ppb        .000      .619
                                                                              =
===============================================================================
*** Sample ID: SB71-4-5              Seq:  85     13:22:09 28 May 10   HG
                           1005132-19
Hg    .204    ppb        .000      .204
                                                                              =
===============================================================================
*** Sample ID: SB71D-4-5             Seq:  86     13:24:10 28 May 10   HG
                           1005132-20
Hg    .403    ppb        .000      .403
                                                                              =
*** Check Standard: 2  Ck2 CCV      Seq:  87      13:26:21 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          113.     5.67    5.00   ppb         .000
                                                                              =
*** Check Standard: 1  Ck1 CCB      Seq:  88      13:28:13 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.097     .200     ppb         .000
                                                                              =
```

5. Digestion and Distillation Logs

Logs shall be submitted in the following order: digestion logs for ICP, flame AA (if used), furnace AA (if used), and mercury preparations, followed by a copy of the distillation log for cyanide.

METALS/MERCURY PREPARATION LOG

Metals Method: 3050B / 6010B
Mercury Method: 7471B
Prepared By: DDD / JRR

CompuChem
A Division Of
Liberty Analytical Corp.

Preparation Date: 5-27-10
Preparation Time: 1145
Batch Number: 0052619/20
Blue Soil

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	SAMPLE TYPE	ICP Initial (g)	ICP Final (mL)	HG Initial (g)	HG Final (mL)	*Description Before	*Description After ICP	
0052619/20-BLK1	PBS	MB	1.00	100	0.60	100	N / A	CS / CL	
0052619/20-BS1	LCSS	LCS	1.00		0.20		BR / F	Y / CL	
0052619/20-DUP1	SB85-1.5-2.5D	DUP	1.00		0.60		BR / M	Y / CL	
0052619/20-MS1	SB85-1.5-2.5S	MS	1.00		0.60		BR / M	Y / CL	
0052619/20-MSD1	SB85-1.5-2.5SD	MSD	1.00		0.60		BR / M	Y / CL	
1005132-01	SB85-1.5-2.5	SAMPLE	1.00		0.60		BR / M	Y / CL	
1005132-02	SB78-3.5-4.5	SAMPLE	1.00		0.60		BR / M	Y / CL	
1005132-03	SS77-0-1	SAMPLE	1.00		0.62		BR / M	Y / CL	
1005132-04	SB77-3.5-4.5	SAMPLE	1.01		0.61		BR / M	Y / CL	
1005132-05	SS79-0-1	SAMPLE	1.03		0.60		BR / M	Y / CL	
1005132-06	SB79-11-12	SAMPLE	1.05		0.62		BR / M	Y / CL	
1005132-07	SS83-0-1	SAMPLE	1.03		0.62		BR / M	Y / CL	
1005132-08	SB83-6.5-7.5	SAMPLE	1.05		0.65		BR / M	Y / CL	
1005132-09	SS62-0-1	SAMPLE	1.00		0.60		BR / M	BRY / CL 5-27-10 D.D.	
1005132-10	SS74-0-1	SAMPLE	1.00		0.63		BR / M	Y / CL	
1005132-11	SS86-0-1	SAMPLE	1.02		0.60		BR / M	Y / CL	
1005132-12	SB86-3-4	SAMPLE	1.03		0.63		BR / M	Y / CL	
1005132-13	SS84-0-1	SAMPLE	1.04		0.63		BR / M	Y / CL	
1005132-14	SB84-6-7	SAMPLE	1.00		0.61		BR / M	Y / CL	
1005132-15	SS81-0-1	SAMPLE	1.05		0.60		BR / M	Y / CL	
1005132-16	SB81-5-6	SAMPLE	1.02		0.69		BR / M	Y / CL	
1005132-17	SS71-0-1	SAMPLE	1.04		0.66		BR / M	Y / CL	
1005132-18	SS71D-0-1	SAMPLE	1.04		0.60		BR / M	Y / CL	
1005132-19	SB71-4-5	SAMPLE	1.04		0.63		BR / M	Y / CL	
1005132-20	SB71D-4-5	SAMPLE	1.05	↓	0.62	↓	BR / M	Y / CL	

Mercury Standards and QC S0 S0.2 S0.5S1 S5 S10 ICV ICB CRI CCV CCB

NOTE: All standards and QC for mercury were prepared at the same day as the associated samples. Refer to the attached.

Standard/QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

Record of Tempature/Time		
Hot Block Temp In:	95°	C
Hot Block Temp Out:	95°	C
Time Hg in water bath:	1215	
Time Hg out water bath:	1245	
Water Bath Temp In:	95°	C
Water Bath Temp Out:	95°	C

MS Reference
ICAP: 1.0mL XCL-20
Ref # 0B26007
HG: 1.0mL 100ppb Hg
Ref# Hg 100 ppb 052710 DD

LCS Reference
ICAP: 1.0g ERA PPT (540)
Ref #: 0B24007
HG: 0.2g ERA PPT (540)
Ref# 0B24007

*** R=red, BL=blue, Y=yellow, G=green, O=orange, V=violet, W=white, CS=colorless, BR=brown, BK=black GY= grey, F=fine, M=medium, C=coarse, CL=clear, CY=cloudy, OP=opaque**

"The presence of the Chemist's/analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations requires documentation by the chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation."

Sample Verification Signature: [signature]
This signature corroborates that the sample identification numbers appearing on the digestion cups are the same as those appearing on the field sample containers.

Reviewed By: [signature]
Date: 6/14/10

Shading has been applied to unused portions of this worksheet as a substitute for 'Z-out.

Standards/QC Preparation Log for ICP Metals/Mercury Page 1 of 3 **Case/SDG:** 1005132
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION DATE
SULFURIC ACID (H_2SO_4)	9L30014	CALEDON	71645	12/15
NITRIC ACID (HNO_3)	0E19001	JT BAKER	J10027	05/15
POTASSIUM PERMANGANATE ($KMnO_4$)	0D13009	JT BAKER	J04613	04/13
HYDROCHLORIC ACID (HCL)	0E20028	CALEDON	72420	05/15
POTASSIUM PERSULFATE ($K_2S_2O_8$)	0A07004	JT BAKER	H44465	11/12
HYDROGEN PEROXIDE (H_2O_2)	0B18004	CALEDON	70692	01/11
STANDARDS				
XCL 20R	0B26007	HIGH PURITY	0925409	09/11/10
XCL LCS 10XR	9L15003	HIGH PURITY	0935232	12/10/10
ERA PPT (540)	0B24007	ERA	540	12/03/10
EPA LCS (0405)	1m2-186-23	EPA	0405	11/17/11
ICV-1 (0307)	0B04003	EPA	0307	03/12/11
ILM05.3 MATRIX SPIKE	0B23010	HIGH PURITY	1004722	02/18/11
SILVER (Ag) 100ppm	9L15009	HIGH PURITY	0934323	12/15/10
TCLP 500	9L21002	HIGH PURITY	0934202	12/10/10
ARSENIC (As) 1000ppm	9F17001	HIGH PURITY	0911221	12/05/10
MERCURY (Hg) 20ppm	9L15007	HIGH PURITY	0916320	06/15/10
ICV-5 (0508) Hg	0E20020	EPA	0508	05/17/2015

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dicken DATE: 5-27-10

ENTERED BY: D. Dicken DATE: 5-27-10

REVIEWED BY: [signature] DATE: 5-27-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

12/03/07:RM

Standards/QC Preparation Log for ICP Metals/Mercury Page 2 of 3 **Case/SDG:** 1005132
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
Hg 100ppb-05-27-10-DD	Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water **(PREPARE DAILY)**
$K_2S_2O_8$- 05-25-10-DD Potassium Persulfate	Place in a 1000mL Erlenmeyer to a re-pipettor bottle **(PREPARE AS NEEDED)**
$KmnO_4$. 05-25-10 –DD Potassium Permanganate	Place in a 2000mL volumetric flask: 100.0g of $KmnO_4$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREARE AS NEEDED)**
HNO_3- 05-25-10 - DD Nitric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
HCl- 05-26-10 - DD Hydrochloric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HCl Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
Aqua Regia- 05-27-10 - DD	Place in a 1000mL container: 600mL of Concentrated HCL 200mL of Concentrated HNO3 **(PREPARE AS NEEDED)**

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dicken DATE: 5-27-10

ENTERED BY: D. Dicken DATE: 5-27-10

REVIEWED BY: [signature] DATE: 5-27-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 3 of 3 **Case/SDG:** 1005132
COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS	Resultant Analyte Concentration
ICV-5- 05-27-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of ICV-5 and 99mL of reagent water. Digest according to sample preparation instructions	4.0µg/L
S0/ICB/CCB- 05-27-10-DD	Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions	0.0µg/L
S0.2/CRA/CRI- 05-27-10-DD	Pipet into a 300mL BOD Bottle 0.2mL of Hg 100ppb and 99.8mL of reagent water Digest according to sample preparation instructions	0.2µg/L
S0.5- 05-27-10-DD	Pipet into a 300mL BOD Bottle 0.5mL of Hg 100ppb and 99.5mL of reagent water Digest according to sample preparation instructions	0.5µg/L
S1.0- 05-27-10-DD	Pipet into a 300mL BOD Bottle 1.0mL of Hg 100ppb and 99mL of reagent water Digest according to sample preparation instructions	1.0µg/L
S5.0/CCV- 05-27-10-DD	Pipet into a 300mL BOD Bottle 5.0mL of Hg 100ppb and 95mL of reagent water Digest according to sample preparation instructions	5.0µg/L
S10.0- 05-27-10-DD	Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions	10.0µg/L

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dicken DATE: 5-27-10

ENTERED BY: D. Dicken DATE: 5-27-10

REVIEWED BY: John Rech DATE: 5-27-10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

C. Chain-of-Custody Documentation

The laboratory shall include a copy of the Chain-of-Custody (CoC) Documentation for all of the samples in the SDG. The CoC documentation shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24772

Page 1 of 1

162

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St, 101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time
Project Contact: Rebekka Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K Rogers / RDU	Are high concentrations expected? Y or (N) If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B)	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C)	TCL Pest (8081A)	Grain Size (ASTM D422) 8oz		Grain size	
1005129-17	BBG-SB85-0-1-10B	5-13-10	0740	SO	3							X		X	X	X	X		1005209-13	
1005132-01	BBG-SB85-1.5-2.5-10B	5-13-10	0745	SO	3							X		X	X	X	X		-14	
	BBG-SB85-1.5-2.5-10B-MS*	5-13-10	0745	SO	2							X		X	X	X	X(2)	(NO) X10	no grainsize on MS/MSD	
	BBG-SB85-1.5-2.5-10B-SD*	5-13-10	0745	SO	2							X		X	X	X	X(2)			
1005129-18	BBG-SB89-0-1-10B	5-13-10	0825	SO	3							X		X	X	X	X		1005209-15	
-19	BBG-SB89-6.5-7.5-10B	5-13-10	0845	SO	3							X		X	X	X	X		-16	
-20	BBG-SB78-0-1-10B	5-13-10	0930	SO	3							X		X	X	X	X		-17	
1005132-02	BBG-SB78-3.5-4.5-10B	5-13-10	1040	SO	3							X		X	X	X	X		-18	

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

BBG-SB85-1.5-2.5-10B (MS + SD) Did not receive grainsize jar. DB 5/14/10

Relinquished by:	Date/Time: 5-13-10 1330	Received by: Diane Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? Y or N
On Ice? Y or N
Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24776

163

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information		Project Information	
Company Name	CH2M HILL	Project Name	GD-94
Address	5700 Cleveland St. 101	Sampling Location	MCB Camp Lejeune
City / State / Zip	VA Beach / VA / 23462	Turnaround time	
Project Contact	Rebekha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?	
Phone #	757-671-6279	Are aqueous samples field filtered for metals? Y or (N)	
Sampler's Name	K. Rogers / RDM	Are high concentrations expected? Y or (N) If yes, which ID(s)?	

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lancaster Lab #	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 28d	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 40d	TCL Pest (8081A)	Grain Size (ASTM D422) 28d	Grain size	
1005132-03	BBG-SB77-0-1-10B	5-13-10	1205	SO	3							X		X	X	X	X	100520 9-19	
-04	BBG-SB77-2.5-3.5-10B	5-13-10	1210	SO	3							X		X	X	X	X	container has BBG-SB77-3.5-4.5	
1005130-18	BBG-SB08-0-1-10B	5-13-10	1240	SO	3								X	X	X	X	X	1005210-02	
-19	BBG-SB08-6-7-10B	5-13-10	1300	SO	3								X	X	X	X	X		-03
1005132-05	BBG-SB79-0-1-10B	5-13-10	1510	SO	3							X	[illegible]	X	X	X	X		-04
-06	BBG-SB79-11-12-10B	5-13-10	1530	SO	3							X	[illegible]	X	X	X	X		-05

Lancaster Use Only

Sample Unpacked By: Jennifer Boyer
Sample Order Entry By: [illegible]
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diane Boyd	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? Y or N (JD 5/14/10)	On Ice (Y) or N	Cooler Temp: 3.8 °C

Samples stored 30 days after date report mailed at no extra charge.

client delivered

White & Yellow copy to lab • Pink copy for customer

24775

164

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information		Project Information		Requested Analysis and Container/Preservative										Matrix
Company Name	CH2M HILL	Project Name	CTO-94	Total Metals (6010B) 200.8	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 8270C	TCL Pest (8081A)	Grain Size (ASTM D422) 8					GW - Ground water WW - Waste water SW - Surface water SO - Soil/Sediment TB - Trip Blank RI - Rinsate WP - Wipe O - Other
Address	5700 Cleveland St. 101	Sampling Location	MCB Camp Lejeune											
City / State / Zip	VA Beach VA 23462	Turnaround time												
Project Contact	Rebekka Shaw	Batch QC or Project Specific? If Specific, which Sample ID?												
Phone #	757-671-6279	Are aqueous samples field filtered for metals? Y or (N)												
Sampler's Name	K Rogers / RDM	Are high concentrations expected? Y or (N) If yes, which ID(s)?												

Lab Sample ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 200.8	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 8270C	TCL Pest (8081A)	Grain Size (ASTM D422) 8		Grain Size						
100532-07	BBG-SS83-0-1-10B	5-13-10	1555	SO	3							X		X	X	X	X		100521	0-06					
-08	BBG-SS83-6.5-7.5-10B	5-13-10	1605	SO	3							X		X	X	X	X				-07				
-09	BBG-SS62-0-1-10B	5-13-10	1640	SO	3							X		X	X	X	X				-08				
100530-20	BBG-SS05-0-1-10B	5-14-10	0800	SO	3							X	X	X	X	X	X				-09				
100534-05	BBG-SS05-7-8-10B	5-14-10	0810	SO	3								X	X	X	X	X				-10				

Lab Use Only

Sample Unpacked By: Jennifer Davis
Sample Order Entry By: [signature]
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by: [signature]	Date/Time: 5-14-10 1600	Received by: [signature]	Date/Time: 5-14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? Y or N If yes, where? Grain size to CTLABS	Custody Seal(s) intact? Y or N	On Ice? (Y) or N	Cooler Temp: 3.6 °C

Samples stored 60 days after date report mailed at no extra charge.

client delivered

White & Yellow copy to lab • Pink copy for customer

24779

Page 1 of 1

165

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: K-Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2	Total Chromium (6010B)	TCL Pest (8081A) 8	SIM PAH's (8270C) 8	Grain Size (ASTM D422) 8	Chromium VI (7196A)					
1005132-10	BBG-SS74-0-1-10B	5-14-10	1015	SO	3							X		X	X	X	X	Grain size	1005210-11			
-11	BBG-SS86-0-1-10B	5-14-10	1105	SO	3							X		X	X	X	X		-12			
-12	BBG-SS86-3-4-10B	5-14-10	1115	SO	3							X		X	X	X	X		-13			

Lab Use Only

Sample Unpacked By: Jennifer Dorn
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by:	Date/Time: 5.14.10 1600	Received by:	Date/Time: 5/14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 3.2 °C

client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24777

166

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: KRogers / RDU

Project Information

Project Name: GTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Preserved: HCl	NaOH	HNO3	H2SO4	MeOH	Other	Total Metals (6010B) 20	Total Chromium (6010B)	SIM PAH's (8270C) 60	TCL Pest (8081A)	Grain Size (ASTM D422) 80	Chromium VI (7196A)		Grain Size	
1005132-01	BBG-SS73-0-1-10B	5-14-10	0825	SO	3							X		X	X	X	X		1005209-14	
—	BBG-SS73-0-1-10B-MS	5-14-10	0825	SO	3							X		X	X	X	X		—	
↓ —	BBG-SS73-0-1-10B-SD	5-14-10	0825	SO	3							X		X	X	X	X		—	
1005132-13	BBG-SS84-0-1-10B	5-14-10	0855	SO	3							X		X	X	X	X		1005209-15	
-14	BBG-SB84-6-7-10B	5-14-10	0905	SO	3							X		X	X	X	X		↓	-16
1005134-01	BBG-SS02-0-1-10B	5-14-10	0930	SO	3								X	X	X	X	X		↓	-17
-02	BBG-SB02D-0-1-10B	5-14-10	0935	SO	3								X	X	X	(*X)	X		—	
-03	BBG-SB02-5-6-10B	5-14-10	0940	SO	3								X	X	X	X	X		1005209-18	
↓ -04	BBG-SB02D-5-6-10B	5-14-10	0945	SO	3								X	X	X	(*X)	X		—	

Lab Only

Sample Unpacked By: Jennifer Doyen
Sample Order Entry By: Jennifer Doyen
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

*did not rec'd Grainsize for BBG-SS02D-01-10B or BBG-SB02D-56-10B not needed on "dups" (TD) 5/14/10 or MS/MSD

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diane Durst	Date/Time: 5-14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? (Y) or N (3D) 5/14/10	On Ice? (Y) or N	Cooler Temp: 1.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

Client delivered

24785

167

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Report Information		Project Information
Company Name: CH2M HILL		Project Name: CTO 94
Address: 5700 Cleveland St, 101		Sampling Location: MCB CAMP LEJEUNE
City: Va BEACH State: VA Zip: 23462		Turnaround time: PER CONTRACT
Project Contact: Rebekha Shaw		Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279		Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. Rogers		Are high concentrations expected? Y or (N)? If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Sample ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Metals 6010B (Share)	Tot Cr 6010B (1-263.)	Cr VI 7196A	SIM PAH 8270C (Share)	TCL PEST 8081A (1-802.)	Grain Size ASTM D422 (1-802.)		Grain Size		
1005132-15	BBG-SS81-0-1-10B	5.18	1600	SO	3							X		X	X	X	X		1005212-01		
-16	BBG-SS81-5-6-10B	5.18	1620	SO	3							X		X	X	X	X			-02	
1005133-11	BBG-SS67-0-1-10B	5.18	1700	SO	3							X		X	X	X	X			-03	
1005134-14	BBG-SB50-1-2-10B	5.18	1750	SO	3								X	X	X	X	X			-04	
1005132-17	BBG-SS71-0-1-10B	5.19	0735	SO	3							X		X	X	X	X			-05	
-18	BBG-SS71D-0-1-10B	5.19	0740	SO	3							X		X	X	X					
-19	BBG-SB71-4-5-10B	5.19	0755	SO	3							X		X	X	X	X		1005212-06		
-20	BBG-SB71D-4-5-10B	5.19	0800	SO	2							X		X	X	X					
1005133-12	BBG-SS72-0-1-10B	5.19	0835	SO	3							X		X	X	X	X		1005212-07		
-13	BBG-SB72-2-3-10B	5.19	0845	SO	3							X		X	X	X	X			-08	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By: [illegible]
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (N/A)
625 & Phenol samples checked for chlorine? Y or (N/A)
608 samples checked for pH between 5.0-9.0? Y or (N/A)

Relinquished by: [signature]	Date/Time: 5.21.10 1600	Received by: K. Manning	Date/Time: 5.21.10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 4.3 °C

Samples stored 60 days after date report mailed at no extra charge.

Client Delivery - KM 5.21.10

White & Yellow copy to lab • Pink copy for customer SN0015

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-01	SB85-1.5-2.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB85-1.5-2.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-01	SB85-1.5-2.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB85-1.5-2.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-02	SB78-3.5-4.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB78-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-02	SB78-3.5-4.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB78-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-03	SS77-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS77-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-03	SS77-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS77-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-04	SB77-3.5-4.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB77-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-04	SB77-3.5-4.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB77-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-05	SS79-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS79-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-05	SS79-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS79-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-06	SB79-11-12	05/13/2010	05/14/2010	06/03/2010	BBG-SB79-11-12-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-06	SB79-11-12	05/13/2010	05/14/2010	06/10/2010	BBG-SB79-11-12-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-07	SS83-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS83-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-07	SS83-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS83-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-08	SB83-6.5-7.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB83-6.5-7.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-08	SB83-6.5-7.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB83-6.5-7.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-09	SS62-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS62-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-09	SS62-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS62-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-10	SS74-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS74-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-10	SS74-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS74-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-11	SS86-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS86-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-11	SS86-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS86-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-12	SB86-3-4	05/14/2010	05/14/2010	06/03/2010	BBG-SB86-3-4-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-12	SB86-3-4	05/14/2010	05/14/2010	06/10/2010	BBG-SB86-3-4-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-13	SS84-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS84-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-13	SS84-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS84-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-14	SB84-6-7	05/14/2010	05/14/2010	06/03/2010	BBG-SB84-6-7-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-14	SB84-6-7	05/14/2010	05/14/2010	06/10/2010	BBG-SB84-6-7-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-15	SS81-0-1	05/18/2010	05/21/2010	06/03/2010	BBG-SS81-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-15	SS81-0-1	05/18/2010	05/21/2010	06/10/2010	BBG-SS81-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-16	SB81-5-6	05/18/2010	05/21/2010	06/03/2010	BBG-SB81-5-6-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-16	SB81-5-6	05/18/2010	05/21/2010	06/10/2010	BBG-SB81-5-6-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-17	SS71-0-1	05/19/2010	05/21/2010	06/03/2010	BBG-SS71-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-17	SS71-0-1	05/19/2010	05/21/2010	06/10/2010	BBG-SS71-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-18	SS71D-0-1	05/19/2010	05/21/2010	06/03/2010	BBG-SS71D-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-18	SS71D-0-1	05/19/2010	05/21/2010	06/10/2010	BBG-SS71D-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-19	SB71-4-5	05/19/2010	05/21/2010	06/03/2010	BBG-SB71-4-5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-19	SB71-4-5	05/19/2010	05/21/2010	06/10/2010	BBG-SB71-4-5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-20	SB71D-4-5	05/19/2010	05/21/2010	06/03/2010	BBG-SB71D-4-5-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-20	SB71D-4-5	05/19/2010	05/21/2010	06/10/2010	BBG-SB71D-4-5-10B

WORK ORDER

Printed: 5/28/2010 6:52:16PM

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/10/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/21/2010 16:00

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 22:26

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005132-01 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A*TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005132-01 SB85-1.5-2.5 [Soil] Sampled 05/13/2010 07:45 Eastern					**USE FOR QC**
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 07:45	05/14/2010 09:20	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 07:45	05/14/2010 09:20	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 07:45	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 07:45	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 07:45	05/14/2010 09:20	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 07:45	05/14/2010 09:20	SubList = GC- 8081 DOD
1005132-02 SB78-3.5-4.5 [Soil] Sampled 05/13/2010 10:40 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 10:40	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 10:40	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 10:40	05/14/2010 09:20	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 10:40	05/14/2010 09:20	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 10:40	05/14/2010 09:20	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 10:40	05/14/2010 09:20	SubList = GC- 8081 DOD

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires	Comments	
1005132-03 SS77-0-1 [Soil] Sampled 05/13/2010 12:05 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 12:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 12:05	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 12:05	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 12:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 12:05	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 12:05	05/14/2010 16:00	SubList = GC- 8081 DOD
1005132-04 SB77-3.5-4.5 [Soil] Sampled 05/13/2010 12:10 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 12:10	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 12:10	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 12:10	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 12:10	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 12:10	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 12:10	05/14/2010 16:00	SubList = SVsim- PAH
1005132-05 SS79-0-1 [Soil] Sampled 05/13/2010 15:10 Eastern					
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:10	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:10	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:10	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:10	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:10	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:10	05/14/2010 16:00	
1005132-06 SB79-11-12 [Soil] Sampled 05/13/2010 15:30 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:30	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:30	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:30	05/14/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:30	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:30	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:30	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Received**

Analysis	Due	TAT	Expires		Comments
1005132-07 SS83-0-1 [Soil] Sampled 05/13/2010 15:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:55	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:55	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:55	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:55	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:55	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:55	05/14/2010 16:00	SubList = SVsim- PAH
1005132-08 SB83-6.5-7.5 [Soil] Sampled 05/13/2010 16:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 16:05	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 16:05	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 16:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 16:05	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 16:05	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 16:05	05/14/2010 16:00	SubList = GC- 8081 DOD
1005132-09 SS62-0-1 [Soil] Sampled 05/13/2010 16:40 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 16:40	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 16:40	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 16:40	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 16:40	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 16:40	05/14/2010 16:00	SubList = SVsim- PAH
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 16:40	05/14/2010 16:00	
1005132-10 SS74-0-1 [Soil] Sampled 05/14/2010 10:15 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 10:15	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 10:15	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 10:15	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 10:15	05/14/2010 16:00	SubList = GC- 8081 DOD
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 10:15	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 10:15	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005132-11 SS86-0-1 [Soil] Sampled 05/14/2010 11:05 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 11:05	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 11:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 11:05	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 11:05	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 11:05	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 11:05	05/14/2010 16:00	SubList = SVsim- PAH
1005132-12 SB86-3-4 [Soil] Sampled 05/14/2010 11:15 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 11:15	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 11:15	05/14/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 11:15	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 11:15	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 11:15	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 11:15	05/14/2010 16:00	
1005132-13 SS84-0-1 [Soil] Sampled 05/14/2010 08:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 08:55	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 08:55	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 08:55	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 08:55	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 08:55	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 08:55	05/14/2010 16:00	
1005132-14 SB84-6-7 [Soil] Sampled 05/14/2010 09:05 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 09:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 09:05	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 09:05	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 09:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 09:05	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 09:05	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.DI
SDG:	1005132 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005132-15 SS81-0-1 [Soil] Sampled 05/18/2010 16:00 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/14/2010 16:00	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/01/2010 16:00	05/21/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/15/2010 16:00	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/14/2010 16:00	05/21/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/14/2010 16:00	05/21/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/01/2010 16:00	05/21/2010 16:00	SubList = SVsim- PAH
1005132-16 SB81-5-6 [Soil] Sampled 05/18/2010 16:20 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/14/2010 16:20	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/15/2010 16:20	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/14/2010 16:20	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/01/2010 16:20	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/01/2010 16:20	05/21/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/14/2010 16:20	05/21/2010 16:00	
1005132-17 SS71-0-1 [Soil] Sampled 05/19/2010 07:35 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:35	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:35	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:35	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:35	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:35	05/21/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:35	05/21/2010 16:00	
1005132-18 SS71D-0-1 [Soil] Sampled 05/19/2010 07:40 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:40	05/21/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:40	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:40	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:40	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:40	05/21/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:40	05/21/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Batched**

Analysis	Due	TAT	Expires		Comments
1005132-19 SB71-4-5 [Soil] Sampled 05/19/2010 07:55 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:55	05/21/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:55	05/21/2010 16:00	SubList = SVsim- PAH
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:55	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:55	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:55	05/21/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:55	05/21/2010 16:00	
1005132-20 SB71D-4-5 [Soil] Sampled 05/19/2010 08:00 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 08:00	05/21/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 08:00	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 08:00	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 08:00	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 08:00	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 08:00	05/21/2010 16:00	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

INTERNAL DIGESTION COC

0052619

COMPUCHEM

Printed: 5/26/2010 3:44:57PM

Matrix: Soil **Prepared using: METALS - EPA 3050B**

Lab Number	Client ID	Sample Type	
0052619-BLK1	PBS	Blank	
0052619-BS1	LCSS	LCS	
0052619-DUP1	SB85-1.5-2.5D	Duplicate	
0052619-MS1	SB85-1.5-2.5S	Matrix Spike	
0052619-MSD1	SB85-1.5-2.5SD	Matrix Spike Dup	
1005132-01	SB85-1.5-2.5	Sample	
1005132-02	SB78-3.5-4.5	Sample	
1005132-03	SS77-0-1	Sample	
1005132-04	SB77-3.5-4.5	Sample	
1005132-05	SS79-0-1	Sample	
1005132-06	SB79-11-12	Sample	
1005132-07	SS83-0-1	Sample	
1005132-08	SB83-6.5-7.5	Sample	
1005132-09	SS62-0-1	Sample	
1005132-10	SS74-0-1	Sample	
1005132-11	SS86-0-1	Sample	
1005132-12	SB86-3-4	Sample	
1005132-13	SS84-0-1	Sample	
1005132-14	SB84-6-7	Sample	
1005132-15	SS81-0-1	Sample	
1005132-16	SB81-5-6	Sample	
1005132-17	SS71-0-1	Sample	
1005132-18	SS71D-0-1	Sample	
1005132-19	SB71-4-5	Sample	
1005132-20	SB71D-4-5	Sample	

D. Dicke	5-27-10 1440	ICP Stg.	5-27-10 1440
Relinquished By	Date	Received By	Date
	061110 1242		061110 1242
Relinquished By	Date	Received By	Date
	061410 1145		061410 1145
Relinquished By	Date	Received By	Date
	6-14-10		
Relinquished By	Date	Received By	Date

INTERNAL DIGESTION COC

0052620

COMPUCHEM

Printed: 5/26/2010 3:44:51PM

Matrix: Soil **Prepared using: METALS - EPA 7471A Prep**

Lab Number	Client ID	Sample Type	
0052620-BLK1	PBS	Blank	
0052620-BS1	LCSS	LCS	
0052620-DUP1	SB85-1.5-2.5D	Duplicate	
0052620-MS1	SB85-1.5-2.5S	Matrix Spike	
0052620-MSD1	SB85-1.5-2.5SD	Matrix Spike Dup	
1005132-01	SB85-1.5-2.5	Sample	
1005132-02	SB78-3.5-4.5	Sample	
1005132-03	SS77-0-1	Sample	
1005132-04	SB77-3.5-4.5	Sample	
1005132-05	SS79-0-1	Sample	
1005132-06	SB79-11-12	Sample	
1005132-07	SS83-0-1	Sample	
1005132-08	SB83-6.5-7.5	Sample	
1005132-09	SS62-0-1	Sample	
1005132-10	SS74-0-1	Sample	
1005132-11	SS86-0-1	Sample	
1005132-12	SB86-3-4	Sample	
1005132-13	SS84-0-1	Sample	
1005132-14	SB84-6-7	Sample	
1005132-15	SS81-0-1	Sample	
1005132-16	SB81-5-6	Sample	
1005132-17	SS71-0-1	Sample	
1005132-18	SS71D-0-1	Sample	
1005132-19	SB71-4-5	Sample	
1005132-20	SB71D-4-5	Sample	

D. Dickens	5-27-10 1300	Hg Stg.	5-27-10 1300
Relinquished By	Date	Received By	Date
Hg stg	5/28/10 10:00		5/28/10 10:00
Relinquished By	Date	Received By	Date
	5/28/10 1400	Waste	5/28/10 1400
Relinquished By	Date	Received By	Date
		6-14-10	
Relinquished By	Date	Received By	Date

Metals Internal Chain of Custody Sheet

Batch: 0052619 **Status:** Batched **Analysis**: 6010B METALS TAL

Lab Id	Client_Id	Received	Container	Extraction	Preservative	Matrix	Due Date	Cust Date
1005132-01 D	SB85-1.5-2.5	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-02 B	SB78-3.5-4.5	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/16/2010
1005132-03 B	SS77-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/16/2010
1005132-04 B	SB77-3.5-4.5	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-05 B	SS79-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-06 B	SB79-11-12	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-07 B	SS83-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-08 B	SB83-6.5-7.5	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-09 B	SS62-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-10 B	SS74-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-11 B	SS86-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-12 B	SB86-3-4	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-13 B	SS84-0-1	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-14 B	SB84-6-7	05/14/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	5/17/2010
1005132-15 B	SS81-0-1	05/21/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	
1005132-16 B	SB81-5-6	05/21/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	
1005132-17 B	SS71-0-1	05/21/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	
1005132-18 B	SS71D-0-1	05/21/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	
1005132-19 B	SB71-4-5	05/21/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	
1005132-20 B	SB71D-4-5	05/21/10	4a_2OZ WM Glass, cool	EPA 3050B	Cool 4°C	Soil	6/10/2010	

Cooler 1	5-27-10 0855	Duane Byrd	5-27-10 0855
Relinquished By	Date/Time	Received By	Date/Time
Duane Byrd	5-27-10 0855	D. Dickens	5-27-10 0855
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	5-26-10 Received By	Date/Time

CompuChem

A Division Of

Liberty Analytical Corp.

6/24/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S. WorkOrder: 1005132

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Joan Purdee

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005132

Project CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005132

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005132-01	SB85-1.5-2.5	Soil	05/13/2010 07:45	05/14/2010 09:20
1005132-02	SB78-3.5-4.5	Soil	05/13/2010 10:40	05/14/2010 09:20
1005132-03	SS77-0-1	Soil	05/13/2010 12:05	05/14/2010 16:00
1005132-04	SB77-3.5-4.5	Soil	05/13/2010 12:10	05/14/2010 16:00
1005132-05	SS79-0-1	Soil	05/13/2010 15:10	05/14/2010 16:00
1005132-06	SB79-11-12	Soil	05/13/2010 15:30	05/14/2010 16:00
1005132-07	SS83-0-1	Soil	05/13/2010 15:55	05/14/2010 16:00
1005132-08	SB83-6.5-7.5	Soil	05/13/2010 16:05	05/14/2010 16:00
1005132-09	SS62-0-1	Soil	05/13/2010 16:40	05/14/2010 16:00
1005132-10	SS74-0-1	Soil	05/14/2010 10:15	05/14/2010 16:00
1005132-11	SS86-0-1	Soil	05/14/2010 11:05	05/14/2010 16:00
1005132-12	SB86-3-4	Soil	05/14/2010 11:15	05/14/2010 16:00
1005132-13	SS84-0-1	Soil	05/14/2010 08:55	05/14/2010 16:00
1005132-14	SB84-6-7	Soil	05/14/2010 09:05	05/14/2010 16:00
1005132-15	SS81-0-1	Soil	05/18/2010 16:00	05/21/2010 16:00
1005132-16	SB81-5-6	Soil	05/18/2010 16:20	05/21/2010 16:00
1005132-17	SS71-0-1	Soil	05/19/2010 07:35	05/21/2010 16:00
1005132-18	SS71D-0-1	Soil	05/19/2010 07:40	05/21/2010 16:00
1005132-19	SB71-4-5	Soil	05/19/2010 07:55	05/21/2010 16:00
1005132-20	SB71D-4-5	Soil	05/19/2010 08:00	05/21/2010 16:00

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC by SW-846

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

A. SDG Narrative

B. Tabulated target compound results (Form I)

C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low, or Medium)

D. Spike results MS / MSD / LCS (Form III)

E. Blank data (Form IV)
Tabulated blank results (Form I)

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005132

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005132
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SB85-1.5-2.5, SB78-3.5-4.5, SS77-0-1, SB77-3.5-4.5, SS79-0-1, SB79-11-12, SS83-0-1, SB83-6.5-7.5, SS62-0-1, SS74-0-1, SS86-0-1, SB86-3-4, SS84-0-1, SB84-6-7, SS81-0-1, SB81-5-6, SS71-0-1, SS71D-0-1, SB71-4-5, SB71D-4-5

The twenty soil samples listed above were received intact, refrigerated between 0.7 and 4.3°C, with proper documentation, in sealed shipping containers, on May 14th and 21st, 2010. The samples were scheduled for the requested analysis of the Pesticide fraction only. SW-846, 3rd Edition, Update 4, Method 8081B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # 1005132 are included in the sample data sections.

Pesticide

Extraction and analysis holding time requirements were met for the samples. The samples in this SDG were further cleaned through the GPC cleanup process. Manual integrations performed on the samples within this SDG are documented on a spreadsheet after the narrative.

Target analytes confirmed above the reporting limits in samples SS62-0-1, SS71D-0-1, SS84-0-1, and SS86-0-1. Samples SS62-0-1, SS77-0-1, SS84-0-1, and SS86-0-1 were analyzed and reported at a dilution, as well as neat or a lesser dilution, due to target analytes exceeding the calibration range on at least one column. No target analytes confirmed above the reporting limits in the remaining samples.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All surrogate recoveries were with the method specified limits, with exceptions in samples PBLKBO, SB79-11-12, SB83-6.5-7.5, SB86-3-4, SB84-6-7, SS81-0-1, SB81-5-6, SS71D-0-1, SB71-4-5, and SB71D-4-5.

The method blank associated with the samples met all quality control criteria.

Duplicate matrix spike samples were performed with sample SB85-1.5-2.5, and met recovery and precision criteria. The Laboratory Control Sample (LCS) prepared and analyzed with the samples met recovery criteria.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Teresa Amentt Jennings

Teresa Amentt Jennings
GC/HPLC Data Reviewer
June 10, 2010

Manual Integrations									
SDG:	1005132								
Sample(s)	SB85-1.5-2.5MS	SB85-1.5-2.5MSD	SB78-3.5-4.5	SS77-0-1	SS79-0-1	SS83-0-1	SS62-0-1	SS74-0-1	SS86-0-1
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC	X	X					X		
delta-BHC									
Heptachlor									
Aldrin					X				
Heptachlor Epoxide									
gamma-Chlordane								X	
alpha-Chlordane						X			
Endosulfan I	X					X			
4,4'-DDE				X					
Dieldrin								X	
Endrin							X		
4,4'-DDD									
Endosulfan II									
4,4'-DDT									X
Endrin Aldehyde									
Endosulfan sulfate									
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene			X						
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

Manual Integrations									
SDG:	1005132								
Sample(s)	SB86-3-4	SS84-0-1	PCELCSD	SS81-0-1	SS71-0-1	SS71D-0-1	SS84-0-1DL		
Compound									
alpha-BHC			X						
gamma-BHC									
beta-BHC									
delta-BHC									
Heptachlor	X				X				
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane				X					
alpha-Chlordane									
Endosulfan I									
4,4'-DDE		X							
Dieldrin									
Endrin							X		
4,4'-DDD		X					X		
Endosulfan II		X					X		
4,4'-DDT							X		
Endrin Aldehyde									
Endosulfan sulfate									
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl				X		X			
"X" Denotes a manual integration for the compound									

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005132

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
✓	Restek	clpest	0.32	0.5	30
✓	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

GC and GC/MS Volatiles Laboratory	
Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
	* 1.2 cm Carbopack B
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
	* 6 cm of Carboxen 1000 (Carbon molecular sieves)
	* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

Revision 7 (12/6/2005)

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Form I

Organic Analysis Data Sheet (OADS)
- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBOLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/01/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.8	
319-85-7	beta-BHC	4.1	
319-84-6	alpha-BHC	4.5	
319-86-8	delta-BHC	4.8	
58-89-9	gamma-BHC (Lindane)	4.2	
72-54-8	4,4'-DDD	12	
72-55-9	4,4'-DDE	11	
50-29-3	4,4'-DDT	15	
60-57-1	Dieldrin	12	
959-98-8	Endosulfan I	4.3	
33213-65-9	Endosulfan II	11	
1031-07-8	Endosulfan sulfate	10	
72-20-8	Endrin	11	
7421-93-4	Endrin Aldehyde	6.7	
76-44-8	Heptachlor	4.9	
1024-57-3	Heptachlor Epoxide	5.0	
72-43-5	Methoxychlor	12	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	12	
5103-74-2	gamma-Chlordane	4.5	
5103-71-9	alpha-Chlordane	5.0	

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PBOLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-BSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.6	
319-85-7	beta-BHC	4.1	
319-84-6	alpha-BHC	4.4	
319-86-8	delta-BHC	4.6	
58-89-9	gamma-BHC (Lindane)	3.9	
72-54-8	4,4'-DDD	11	
72-55-9	4,4'-DDE	11	
50-29-3	4,4'-DDT	10	
60-57-1	Dieldrin	11	
959-98-8	Endosulfan I	4.1	
33213-65-9	Endosulfan II	11	
1031-07-8	Endosulfan sulfate	10	
72-20-8	Endrin	11	
7421-93-4	Endrin Aldehyde	6.0	
76-44-8	Heptachlor	4.7	
1024-57-3	Heptachlor Epoxide	4.6	
72-43-5	Methoxychlor	12	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	11	
5103-74-2	gamma-Chlordane	4.3	
5103-71-9	alpha-Chlordane	4.8	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCELCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052405-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.8	
319-85-7	beta-BHC	4.0	
319-84-6	alpha-BHC	4.4	
319-86-8	delta-BHC	4.5	
58-89-9	gamma-BHC (Lindane)	3.9	
72-54-8	4,4'-DDD	11	
72-55-9	4,4'-DDE	11	
50-29-3	4,4'-DDT	10	
60-57-1	Dieldrin	11	
959-98-8	Endosulfan I	4.0	
33213-65-9	Endosulfan II	11	
1031-07-8	Endosulfan sulfate	9.9	
72-20-8	Endrin	10	
7421-93-4	Endrin Aldehyde	6.2	
76-44-8	Heptachlor	4.8	
1024-57-3	Heptachlor Epoxide	4.8	
72-43-5	Methoxychlor	12	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	11	
5103-74-2	gamma-Chlordane	4.4	B
5103-71-9	alpha-Chlordane	4.7	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCELCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052405-BSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.7	
319-85-7	beta-BHC	3.9	
319-84-6	alpha-BHC	4.4	
319-86-8	delta-BHC	4.3	
58-89-9	gamma-BHC (Lindane)	3.9	
72-54-8	4,4'-DDD	11	
72-55-9	4,4'-DDE	10	
50-29-3	4,4'-DDT	9.7	
60-57-1	Dieldrin	11	
959-98-8	Endosulfan I	4.0	
33213-65-9	Endosulfan II	10	
1031-07-8	Endosulfan sulfate	9.5	
72-20-8	Endrin	10	
7421-93-4	Endrin Aldehyde	6.7	
76-44-8	Heptachlor	4.7	
1024-57-3	Heptachlor Epoxide	4.6	
72-43-5	Methoxychlor	12	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	11	
5103-74-2	gamma-Chlordane	4.3	B
5103-71-9	alpha-Chlordane	4.6	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB71-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	0.25	JP
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	0.30	JBP
5103-71-9	alpha-Chlordane	2.1	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB71D-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	0.67	J
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	0.55	JBP
5103-71-9	alpha-Chlordane	0.26	JP

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SB77-3.5-4.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	0.26	JP
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	0.32	J
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	0.20	JP

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

SB78-3.5-4.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	3.8	U
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB79-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB81-5-6

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	89	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB83-6.5-7.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	3.9	U
60-57-1	Dieldrin	3.9	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	98	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB84-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	0.47	J
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB85-1.5-2.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	0.56	JP
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	0.53	JP
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	0.48	JP
959-98-8	Endosulfan I	0.51	JP
33213-65-9	Endosulfan II	0.47	J
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	0.62	JP
7421-93-4	Endrin Aldehyde	0.47	JP
76-44-8	Heptachlor	0.39	J
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB85-1.5-2.5MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.1	
319-85-7	beta-BHC	5.7	
319-84-6	alpha-BHC	5.6	
319-86-8	delta-BHC	6.1	
58-89-9	gamma-BHC (Lindane)	5.5	
72-54-8	4,4'-DDD	15	
72-55-9	4,4'-DDE	14	
50-29-3	4,4'-DDT	14	
60-57-1	Dieldrin	15	
959-98-8	Endosulfan I	5.6	
33213-65-9	Endosulfan II	14	
1031-07-8	Endosulfan sulfate	14	
72-20-8	Endrin	14	
7421-93-4	Endrin Aldehyde	8.4	
76-44-8	Heptachlor	6.2	
1024-57-3	Heptachlor Epoxide	5.7	
72-43-5	Methoxychlor	16	J
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	15	
5103-74-2	gamma-Chlordane	5.7	
5103-71-9	alpha-Chlordane	6.5	

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB85-1.5-2.5MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	4.9	
319-85-7	beta-BHC	5.3	
319-84-6	alpha-BHC	5.2	
319-86-8	delta-BHC	5.7	
58-89-9	gamma-BHC (Lindane)	5.0	
72-54-8	4,4'-DDD	14	
72-55-9	4,4'-DDE	13	
50-29-3	4,4'-DDT	12	
60-57-1	Dieldrin	14	
959-98-8	Endosulfan I	5.3	
33213-65-9	Endosulfan II	13	
1031-07-8	Endosulfan sulfate	12	
72-20-8	Endrin	13	
7421-93-4	Endrin Aldehyde	7.8	
76-44-8	Heptachlor	5.8	
1024-57-3	Heptachlor Epoxide	5.3	
72-43-5	Methoxychlor	15	J
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	13	
5103-74-2	gamma-Chlordane	5.4	
5103-71-9	alpha-Chlordane	6.2	

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB86-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	0.40	J
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	0.54	J
50-29-3	4,4'-DDT	2.7	J
60-57-1	Dieldrin	1.3	J
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	99	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	0.38	JP
5103-71-9	alpha-Chlordane	0.38	JP

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS62-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 69 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.2	JP
319-85-7	beta-BHC	3.2	JP
319-84-6	alpha-BHC	5.5	U
319-86-8	delta-BHC	4.5	J
58-89-9	gamma-BHC (Lindane)	5.5	U
72-54-8	4,4'-DDD	11	U
72-55-9	4,4'-DDE	11	U
50-29-3	4,4'-DDT	11	U
60-57-1	Dieldrin	18	P
959-98-8	Endosulfan I	1.9	JP
33213-65-9	Endosulfan II	11	U
1031-07-8	Endosulfan sulfate	16	P
72-20-8	Endrin	1.9	JP
7421-93-4	Endrin Aldehyde	2.9	JP
76-44-8	Heptachlor	5.1	JP
1024-57-3	Heptachlor Epoxide	2.3	JP
72-43-5	Methoxychlor	55	U
8001-35-2	Toxaphene	270	U
53494-70-5	Endrin Ketone	11	U
5103-74-2	gamma-Chlordane	5.5	U
5103-71-9	alpha-Chlordane	1.7	JP

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SS62-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-09RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 69 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	55	U
319-85-7	beta-BHC	55	U
319-84-6	alpha-BHC	55	U
319-86-8	delta-BHC	5.6	DJP
58-89-9	gamma-BHC (Lindane)	55	U
72-54-8	4,4'-DDD	110	U
72-55-9	4,4'-DDE	110	U
50-29-3	4,4'-DDT	18	DJ
60-57-1	Dieldrin	65	DJP
959-98-8	Endosulfan I	55	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	17	DJP
72-20-8	Endrin	110	U
7421-93-4	Endrin Aldehyde	110	U
76-44-8	Heptachlor	13	DJ
1024-57-3	Heptachlor Epoxide	55	U
72-43-5	Methoxychlor	550	U
8001-35-2	Toxaphene	2700	U
53494-70-5	Endrin Ketone	110	U
5103-74-2	gamma-Chlordane	55	U
5103-71-9	alpha-Chlordane	55	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS71-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	1.4	J
50-29-3	4,4'-DDT	1.1	J
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	0.19	JP
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS71D-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	4.0	
50-29-3	4,4'-DDT	2.5	J
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS74-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.35	JP
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	1.1	J
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	1.7	J
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	0.32	JP
5103-71-9	alpha-Chlordane	0.36	J

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS77-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	0.66	J
319-84-6	alpha-BHC	0.27	J
319-86-8	delta-BHC	0.34	JP
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.3	U
72-55-9	4,4'-DDE	1.3	J
50-29-3	4,4'-DDT	2.7	J
60-57-1	Dieldrin	1.0	JP
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
72-20-8	Endrin	4.3	U
7421-93-4	Endrin Aldehyde	4.3	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.3	U
5103-74-2	gamma-Chlordane	0.87	JP
5103-71-9	alpha-Chlordane	2.2	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS77-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	11	U
319-85-7	beta-BHC	11	U
319-84-6	alpha-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
72-54-8	4,4'-DDD	21	U
72-55-9	4,4'-DDE	21	U
50-29-3	4,4'-DDT	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	11	U
33213-65-9	Endosulfan II	8.1	DJ
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin Aldehyde	21	U
76-44-8	Heptachlor	11	U
1024-57-3	Heptachlor Epoxide	11	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	540	U
53494-70-5	Endrin Ketone	21	U
5103-74-2	gamma-Chlordane	11	U
5103-71-9	alpha-Chlordane	11	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS79-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.21	JP
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	1.4	J
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	0.36	JP
1031-07-8	Endosulfan sulfate	2.5	JP
72-20-8	Endrin	0.64	JP
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	0.27	JP
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	0.17	JP

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS81-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	0.23	JBP
5103-71-9	alpha-Chlordane	1.8	U

FORM I PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS83-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.48	JP
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	0.96	J
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	0.45	J
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	2.2	JP
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	0.21	JP
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	7.2	JP
8001-35-2	Toxaphene	88	U
53494-70-5	Endrin Ketone	2.4	JP
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	0.74	J

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.: SS84-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	0.20	JP
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	5.6	
72-55-9	4,4'-DDE	38	E
50-29-3	4,4'-DDT	16	
60-57-1	Dieldrin	0.73	JP
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	0.53	JP
76-44-8	Heptachlor	0.39	JP
1024-57-3	Heptachlor Epoxide	0.23	JP
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.4	JP
5103-71-9	alpha-Chlordane	0.54	JP

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS84-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	8.9	U
319-85-7	beta-BHC	8.9	U
319-84-6	alpha-BHC	8.9	U
319-86-8	delta-BHC	8.9	U
58-89-9	gamma-BHC (Lindane)	8.9	U
72-54-8	4,4'-DDD	5.5	DJ
72-55-9	4,4'-DDE	34	D
50-29-3	4,4'-DDT	14	DJ
60-57-1	Dieldrin	17	U
959-98-8	Endosulfan I	8.9	U
33213-65-9	Endosulfan II	17	U
1031-07-8	Endosulfan sulfate	17	U
72-20-8	Endrin	17	U
7421-93-4	Endrin Aldehyde	17	U
76-44-8	Heptachlor	8.9	U
1024-57-3	Heptachlor Epoxide	8.9	U
72-43-5	Methoxychlor	89	U
8001-35-2	Toxaphene	440	U
53494-70-5	Endrin Ketone	17	U
5103-74-2	gamma-Chlordane	8.9	U
5103-71-9	alpha-Chlordane	8.9	U

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS86-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	5.6	
72-55-9	4,4'-DDE	67	E
50-29-3	4,4'-DDT	12	
60-57-1	Dieldrin	160	E
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	1.2	JP
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	0.37	JP
1024-57-3	Heptachlor Epoxide	0.50	JP
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	95	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	4.1	
5103-71-9	alpha-Chlordane	5.0	P

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS86-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-11RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	20	U
319-85-7	beta-BHC	20	U
319-84-6	alpha-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
72-54-8	4,4'-DDD	5.8	DJ
72-55-9	4,4'-DDE	59	D
50-29-3	4,4'-DDT	11	DJP
60-57-1	Dieldrin	150	D
959-98-8	Endosulfan I	20	U
33213-65-9	Endosulfan II	38	U
1031-07-8	Endosulfan sulfate	38	U
72-20-8	Endrin	38	U
7421-93-4	Endrin Aldehyde	38	U
76-44-8	Heptachlor	20	U
1024-57-3	Heptachlor Epoxide	20	U
72-43-5	Methoxychlor	200	U
8001-35-2	Toxaphene	950	U
53494-70-5	Endrin Ketone	38	U
5103-74-2	gamma-Chlordane	4.2	DJP
5103-71-9	alpha-Chlordane	5.3	DJP

C. Form II

Surrogate spike analysis

- By level (low, medium) -

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC	#	S1 2 %REC	#	TCX 1 %REC	#	TCX 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKBO	76		75		57	*	53	*			2
02	PBOLCS	80		79		88		81				0
03	PBOLCSD	78		76		88		80				0
04	SB85-1.5-2.5	89		87		91		78				0
05	SB85-1.5-2.5	84		81		83		74				0
06	SB85-1.5-2.5	83		80		85		77				0
07	SB78-3.5-4.5	120		113		110		106				0
08	SS77-0-1	82		80		87		87				0
09	SB77-3.5-4.5	83		81		75		72				0
10	SS79-0-1	96		94		98		108				0
11	SB79-11-12	73		72		75		66	*			1
12	SS83-0-1	83		81		86		94				0
13	SB83-6.5-7.5	72		73		69	*	65	*			2
14	SS62-0-1	82		98		100		85				0
15	SS74-0-1	81		78		82		83				0
16	SS86-0-1	78		82		82		90				0
17	SB86-3-4	140	*	134	*	110		101				2
18	SS84-0-1	76		77		74		76				0
19	SB84-6-7	83		84		70	*	63	*			2
20	PBLKCE	85		81		91		78				0
21	PCELCS	80		77		89		80				0
22	PCELCSD	81		78		86		78				0
23	SS81-0-1	83		102		92		178	*			1
24	SB81-5-6	54	*	57		63	*	57	*			3
25	SS71-0-1	82		80		88		76				0
26	SS71D-0-1	45	*	45	*	50	*	45	*			4
27	SB71-4-5	78		76		81		68	*			1
28	SB71D-4-5	72		70		74		64	*			1
29	SS77-0-1DL	91		79		82		71				0
30	SS62-0-1DL	190	D	237	D	240	D	219	D			0

ADVISORY QC LIMITS

S1 = Decachlorobiphenyl (55-130)
S2 (TCX) = Tetrachloro-m-Xylene (70-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	TCX 1 %REC #	TCX 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	SS86-0-1DL	110	72	87	81			0
02	SS84-0-1DL	85	80	78	70D			0
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = Decachlorobiphenyl (55-130)
S2 (TCX) = Tetrachloro-m-Xylene (70-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results
- By level (low, medium) -
Laboratory Control Sample(s)

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SB85-1.5-2.5

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aldrin	6.0	0.0	5.1	85	45-140
beta-BHC	6.0	0.56	5.7	86	60-125
alpha-BHC	6.0	0.0	5.6	93	60-125
delta-BHC	6.0	0.53	6.1	93	55-130
gamma-BHC (Lindane)	6.0	0.0	5.5	92	60-125
4,4'-DDD	15	0.0	15	100	30-135
4,4'-DDE	15	0.0	14	93	70-125
4,4'-DDT	15	0.0	14	93	45-140
Dieldrin	15	0.48	15	97	65-125
Endosulfan I	6.0	0.51	5.6	85	15-135
Endosulfan II	15	0.47	14	90	35-140
Endosulfan sulfate	15	0.0	14	93	60-135
Endrin	15	0.62	14	89	60-135
Endrin Aldehyde	15	0.47	8.4	53	35-145
Heptachlor	6.0	0.39	6.2	97	50-140
Heptachlor Epoxide	6.0	0.0	5.7	95	65-130
Methoxychlor	15	0.0	16	107	55-145
Endrin Ketone	15	0.0	15	100	65-135
gamma-Chlordane	6.0	0.0	5.7	95	65-125
alpha-Chlordane	6.0	0.0	6.5	108	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SB85-1.5-2.5

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	6.0	4.9	82	4	40	45-140
beta-BHC	6.0	5.3	79	7	40	60-125
alpha-BHC	6.0	5.2	87	7	40	60-125
delta-BHC	6.0	5.7	86	7	40	55-130
gamma-BHC (Lindane)	6.0	5.0	83	10	40	60-125
4,4'-DDD	15	14	93	7	40	30-135
4,4'-DDE	15	13	87	7	40	70-125
4,4'-DDT	15	12	80	15	40	45-140
Dieldrin	15	14	90	7	40	65-125
Endosulfan I	6.0	5.3	80	6	40	15-135
Endosulfan II	15	13	84	7	40	35-140
Endosulfan sulfate	15	12	80	15	40	60-135
Endrin	15	13	82	7	40	60-135
Endrin Aldehyde	15	7.8	49	7	40	35-145
Heptachlor	6.0	5.8	90	7	40	50-140
Heptachlor Epoxide	6.0	5.3	88	7	40	65-130
Methoxychlor	15	15	100	6	40	55-145
Endrin Ketone	15	13	87	14	40	65-135
gamma-Chlordane	6.0	5.4	90	5	40	65-125
alpha-Chlordane	6.0	6.2	103	5	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 40 outside limits

COMMENTS: _____

3F

SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

LCS ID: PBOLCS Matrix Spike - EPA Sample No.: PBOLCS

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aldrin	5.0		3.8	76	45-140
beta-BHC	5.0		4.1	82	60-125
alpha-BHC	5.0		4.5	90	60-125
delta-BHC	5.0		4.8	96	55-130
gamma-BHC (Lindane)	5.0		4.2	84	60-125
4,4'-DDD	13		12	92	30-135
4,4'-DDE	13		11	85	70-125
4,4'-DDT	13		15	115	45-140
Dieldrin	13		12	92	65-125
Endosulfan I	5.0		4.3	86	15-135
Endosulfan II	13		11	85	35-140
Endosulfan sulfate	13		10	77	60-135
Endrin	13		11	85	60-135
Endrin Aldehyde	13		6.7	52	35-145
Heptachlor	5.0		4.9	98	50-140
Heptachlor Epoxide	5.0		5.0	100	65-130
Methoxychlor	13		12	92	55-145
Endrin Ketone	13		12	92	65-135
gamma-Chlordane	5.0		4.5	90	65-125
alpha-Chlordane	5.0		5.0	100	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3F
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

LCS ID: PBOLCS Matrix Spike - EPA Sample No.: PBOLCS

COMPOUND	SPIKE ADDED (ug/Kg	LCSD CONCENTRATION (ug/Kg	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	5.0	3.6	72	5	40	45-140
beta-BHC	5.0	4.1	82	0	40	60-125
alpha-BHC	5.0	4.4	88	2	40	60-125
delta-BHC	5.0	4.6	92	4	40	55-130
gamma-BHC (Lindane)	5.0	3.9	78	7	40	60-125
4,4'-DDD	13	11	85	9	40	30-135
4,4'-DDE	13	11	85	0	40	70-125
4,4'-DDT	13	10	77	40	40	45-140
Dieldrin	13	11	85	9	40	65-125
Endosulfan I	5.0	4.1	82	5	40	15-135
Endosulfan II	13	11	85	0	40	35-140
Endosulfan sulfate	13	10	77	0	40	60-135
Endrin	13	11	85	0	40	60-135
Endrin Aldehyde	13	6.0	46	11	40	35-145
Heptachlor	5.0	4.7	94	4	40	50-140
Heptachlor Epoxide	5.0	4.6	92	8	40	65-130
Methoxychlor	13	12	92	0	40	55-145
Endrin Ketone	13	11	85	9	40	65-135
gamma-Chlordane	5.0	4.3	86	4	40	65-125
alpha-Chlordane	5.0	4.8	96	4	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 40 outside limits

COMMENTS: _____

3F

SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

LCS ID: PCELCS Matrix Spike - EPA Sample No.: PCELCS

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aldrin	5.0		3.8	76	45-140
beta-BHC	5.0		4.0	80	60-125
alpha-BHC	5.0		4.4	88	60-125
delta-BHC	5.0		4.5	90	55-130
gamma-BHC (Lindane)	5.0		3.9	78	60-125
4,4'-DDD	13		11	85	30-135
4,4'-DDE	13		11	85	70-125
4,4'-DDT	13		10	77	45-140
Dieldrin	13		11	85	65-125
Endosulfan I	5.0		4.0	80	15-135
Endosulfan II	13		11	85	35-140
Endosulfan sulfate	13		9.9	76	60-135
Endrin	13		10	77	60-135
Endrin Aldehyde	13		6.2	48	35-145
Heptachlor	5.0		4.8	96	50-140
Heptachlor Epoxide	5.0		4.8	96	65-130
Methoxychlor	13		12	92	55-145
Endrin Ketone	13		11	85	65-135
gamma-Chlordane	5.0		4.4	88	65-125
alpha-Chlordane	5.0		4.7	94	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

_____

3F

SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

LCS ID: PCELCS Matrix Spike - EPA Sample No.: PCELCS

COMPOUND	SPIKE ADDED (ug/Kg	LCSD CONCENTRATION (ug/Kg	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	5.0	3.7	74	3	40	45-140
beta-BHC	5.0	3.9	78	2	40	60-125
alpha-BHC	5.0	4.4	88	0	40	60-125
delta-BHC	5.0	4.3	86	4	40	55-130
gamma-BHC (Lindane)	5.0	3.9	78	0	40	60-125
4,4'-DDD	13	11	85	0	40	30-135
4,4'-DDE	13	10	77	10	40	70-125
4,4'-DDT	13	9.7	75	3	40	45-140
Dieldrin	13	11	85	0	40	65-125
Endosulfan I	5.0	4.0	80	0	40	15-135
Endosulfan II	13	10	77	10	40	35-140
Endosulfan sulfate	13	9.5	73	4	40	60-135
Endrin	13	10	77	0	40	60-135
Endrin Aldehyde	13	6.7	52	8	40	35-145
Heptachlor	5.0	4.7	94	2	40	50-140
Heptachlor Epoxide	5.0	4.6	92	4	40	65-130
Methoxychlor	13	12	92	0	40	55-145
Endrin Ketone	13	11	85	0	40	65-135
gamma-Chlordane	5.0	4.3	86	2	40	65-125
alpha-Chlordane	5.0	4.6	92	2	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 40 outside limits

COMMENTS: _____

E. Form IV

Method Blank Results
Form IV, Form I

Method blank summary, OADS,
- In chronological order of analysis

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKBO

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-BLK1 Lab File ID: 016F0051919-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/20/10

Date Analyzed (1): 06/01/10 Date Analyzed (2): 06/01/10

Time Analyzed (1): 2305 Time Analyzed (2): 2305

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBOLCS	0051919-BS1	06/01/10	06/01/10
02	PBOLCSD	0051919-BSD1	06/02/10	06/02/10
03	SB85-1.5-2.5	0051919-MS1	06/02/10	06/02/10
04	SB85-1.5-2.5	0051919-MSD1	06/02/10	06/02/10
05	SB85-1.5-2.5	1005132-01	06/02/10	06/02/10
06	SB78-3.5-4.5	1005132-02	06/02/10	06/02/10
07	SS77-0-1	1005132-03	06/02/10	06/02/10
08	SB77-3.5-4.5	1005132-04	06/02/10	06/02/10
09	SS79-0-1	1005132-05	06/02/10	06/02/10
10	SB79-11-12	1005132-06	06/02/10	06/02/10
11	SS83-0-1	1005132-07	06/02/10	06/02/10
12	SB83-6.5-7.5	1005132-08	06/02/10	06/02/10
13	SS62-0-1	1005132-09	06/02/10	06/02/10
14	SS74-0-1	1005132-10	06/02/10	06/02/10
15	SS86-0-1	1005132-11	06/02/10	06/02/10
16	SB86-3-4	1005132-12	06/02/10	06/02/10
17	SS84-0-1	1005132-13	06/02/10	06/02/10
18	SB84-6-7	1005132-14	06/02/10	06/02/10
19	SS77-0-1DL	1005132-03RE1	06/03/10	06/03/10
20	SS62-0-1DL	1005132-09RE1	06/03/10	06/03/10
21	SS86-0-1DL	1005132-11RE1	06/03/10	06/03/10
22	SS84-0-1DL	1005132-13RE1	06/03/10	06/03/10
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PBLKBO

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/01/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-85-7	beta-BHC	1.7	U
319-84-6	alpha-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	3.3	U
72-55-9	4,4'-DDE	3.3	U
50-29-3	4,4'-DDT	3.3	U
60-57-1	Dieldrin	3.3	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
72-20-8	Endrin	3.3	U
7421-93-4	Endrin Aldehyde	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor Epoxide	1.7	U
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	3.3	U
5103-74-2	gamma-Chlordane	1.7	U
5103-71-9	alpha-Chlordane	1.7	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0052405-BLK1 Lab File ID: 055F0052405-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/24/10

Date Analyzed (1): 06/02/10 Date Analyzed (2): 06/02/10

Time Analyzed (1): 1801 Time Analyzed (2): 1801

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PCELCS	0052405-BS1	06/02/10	06/02/10
02	PCELCSD	0052405-BSD1	06/02/10	06/02/10
03	SS81-0-1	1005132-15	06/02/10	06/02/10
04	SB81-5-6	1005132-16	06/02/10	06/02/10
05	SS71-0-1	1005132-17	06/02/10	06/02/10
06	SS71D-0-1	1005132-18	06/02/10	06/02/10
07	SB71-4-5	1005132-19	06/02/10	06/02/10
08	SB71D-4-5	1005132-20	06/02/10	06/02/10
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052405-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-85-7	beta-BHC	1.7	U
319-84-6	alpha-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	3.3	U
72-55-9	4,4'-DDE	3.3	U
50-29-3	4,4'-DDT	3.3	U
60-57-1	Dieldrin	3.3	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
72-20-8	Endrin	3.3	U
7421-93-4	Endrin Aldehyde	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor Epoxide	1.7	U
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	3.3	U
5103-74-2	gamma-Chlordane	0.20	JP
5103-71-9	alpha-Chlordane	1.7	U

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC by SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalysis, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005132

A. SDG Narrative

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005132
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SB85-1.5-2.5, SB78-3.5-4.5, SS77-0-1, SB77-3.5-4.5, SS79-0-1, SB79-11-12, SS83-0-1, SB83-6.5-7.5, SS62-0-1, SS74-0-1, SS86-0-1, SB86-3-4, SS84-0-1, SB84-6-7, SS81-0-1, SB81-5-6, SS71-0-1, SS71D-0-1, SB71-4-5, SB71D-4-5

The twenty soil samples listed above were received intact, refrigerated between 0.7 and 4.3°C, with proper documentation, in sealed shipping containers, on May 14th and 21st, 2010. The samples were scheduled for the requested analysis of the Pesticide fraction only. SW-846, 3rd Edition, Update 4, Method 8081B was used to prepare and analyze the samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices for SDG # 1005132 are included in the sample data sections.

Pesticide

Extraction and analysis holding time requirements were met for the samples. The samples in this SDG were further cleaned through the GPC cleanup process. Manual integrations performed on the samples within this SDG are documented on a spreadsheet after the narrative.

Target analytes confirmed above the reporting limits in samples SS62-0-1, SS71D-0-1, SS84-0-1, and SS86-0-1. Samples SS62-0-1, SS77-0-1, SS84-0-1, and SS86-0-1 were analyzed and reported at a dilution, as well as neat or a lesser dilution, due to target analytes exceeding the calibration range on at least one column. No target analytes confirmed above the reporting limits in the remaining samples.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All surrogate recoveries were with the method specified limits, with exceptions in samples PBLKBO, SB79-11-12, SB83-6.5-7.5, SB86-3-4, SB84-6-7, SS81-0-1, SB81-5-6, SS71D-0-1, SB71-4-5, and SB71D-4-5.

The method blank associated with the samples met all quality control criteria.

Duplicate matrix spike samples were performed with sample SB85-1.5-2.5, and met recovery and precision criteria. The Laboratory Control Sample (LCS) prepared and analyzed with the samples met recovery criteria.

An uncertainty of these test results may be estimated from the recovery of the surrogates added to the sample prior to sample preparation or from the recovery of spiked compound(s) in the associated laboratory control sample. Further information is available upon request.

I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Teresa Amentt Jennings

Teresa Amentt Jennings
GC/HPLC Data Reviewer
June 10, 2010

Manual Integrations									
SDG:	1005132								
Sample(s)	SB85-1.5-2.5MS	SB85-1.5-2.5MSD	SB78-3.5-4.5	SS77-0-1	SS79-0-1	SS83-0-1	SS62-0-1	SS74-0-1	SS86-0-1
Compound									
alpha-BHC									
gamma-BHC									
beta-BHC	X	X					X		
delta-BHC									
Heptachlor									
Aldrin					X				
Heptachlor Epoxide									
gamma-Chlordane								X	
alpha-Chlordane						X			
Endosulfan I	X					X			
4,4'-DDE				X					
Dieldrin								X	
Endrin							X		
4,4'-DDD									
Endosulfan II									
4,4'-DDT									X
Endrin Aldehyde									
Endosulfan sulfate									
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene			X						
Decachlorbiphenyl									
"X" Denotes a manual integration for the compound									

Manual Integrations									
SDG:	1005132								
Sample(s)	SB86-3-4	SS84-0-1	PCELCSD	SS81-0-1	SS71-0-1	SS71D-0-1	SS84-0-1DL		
Compound									
alpha-BHC			X						
gamma-BHC									
beta-BHC									
delta-BHC									
Heptachlor	X				X				
Aldrin									
Heptachlor Epoxide									
gamma-Chlordane				X					
alpha-Chlordane									
Endosulfan I									
4,4'-DDE		X							
Dieldrin									
Endrin							X		
4,4'-DDD		X					X		
Endosulfan II		X					X		
4,4'-DDT							X		
Endrin Aldehyde									
Endosulfan sulfate									
Methoxychlor									
Endrin Ketone									
Toxaphene									
Technical Chordane									
Tetrachloro-m-xylene									
Decachlorbiphenyl				X		X			
"X" Denotes a manual integration for the compound									

GC and GC/MS Column and Trap Specifications Table

SDG #: 1005132

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
✓	Restek	clpest	0.32	0.5	30
✓	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

GC and GC/MS Volatiles Laboratory	
Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
	* 1.2 cm Carbopack B
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
	* 6 cm of Carboxen 1000 (Carbon molecular sieves)
	* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

CompuChem

a division of Liberty Analytical Corporation

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

Revision 7 (12/6/2005)

CompuChem

a division of Liberty Analytical Corporation

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses are not combined on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24772

Page 1 of 1

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

8oz 2007 8oz

Client/Reporting Information		Project Information		Requested Analysis (and Method)
Company Name	CH2M HILL	Project Name	GTO-94	
Address	5700 Cleveland St, 101	Sampling Location	MCB Camp Lejeune	
City / State / Zip	VA Beach / VA / 23462	Turnaround time		
Project Contact	Rebekka Shaw	Batch QC or Project Specific? If Specific, which Sample ID?		
Phone #	757-671-6279	Are aqueous samples field filtered for metals? Y or (N)		
Sampler's Name	K Rogers / RDM	Are high concentrations expected? Y or (N)? If yes, which ID(s)?		

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B)	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C)	TCL Pest (8081A)	Grain Size (ASTM D422) 8oz		Grain size	
1005129-17	BBG-SB85-0-1-10B	5-13-10	0740	SO	3							X		X	X	X	X		1005209-13	
1005132-01	BBG-SB85-1.5-2.5-10B	5-13-10	0745	SO	3							X		X	X	X	X		√	-14
	BBG-SB85-1.5-2.5-10B-MS*	5-13-10	0745	SO	2							X		X	X	X	X①	(NO) X 10	no grain size on MS/MSD	
	BBG-SB85-1.5-2.5-10B-SD*	5-13-10	0745	SO	2							X		X	X	X	X②			
1005129-18	BBG-SB89-0-1-10B	5-13-10	0825	SO	3							X		X	X	X	X		1005209-15	
-19	BBG-SB89-6.5-7.5-10B	5-13-10	0845	SO	3							X		X	X	X	X			-16
-20	BBG-SB78-0-1-10B	5-13-10	0930	SO	3							X		X	X	X	X			-17
1005132-02	BBG-SB78-3.5-4.5-10B	5-13-10	1040	SO	3							X		X	X	X	X			-18

Lab Use Only

Sample Unpacked By: Diana Byrd
Sample Order Entry By:
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

BBG-SB85-1.5-2.5-10B (MS + SD) Did not receive grainsize jar. DB 5/14/10

Relinquished by:	Date/Time: 5-13-10 1330	Received by: Diana Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontract? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? (Y) or N	On Ice? (Y) or N	Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24776

69

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDM

Project Information

Project Name: GD-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrix Codes

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab ID (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 6	TCL Pest (8081A)	Grain Size (ASTM D422) 8	Grain size	Notes
1005132-03	BBG-SB77-0-1-10B	5-13-10	1205	SO	3							X		X	X	X	X	1005209-19	
-04	BBG-SB77-2.5-3.5-10B	5-13-10	1210	SO	3							X		X	X	X	X	container has BBG-SB77-3.5-4.5	
1005130-18	BBG-SS08-0-1-10B	5-13-10	1240	SO	3								X	X	X	X	X	1005210-02	
-19	BBG-SB08-6-7-10B	5-13-10	1300	SO	3								X	X	X	X	X		-03
1005132-05	BBG-SS79-0-1-10B	5-13-10	1510	SO	3							X	9[illegible]	X	X	X	X		-04
-06	BBG-SB79-11-12-10B	5-13-10	1530	SO	3							X	9[illegible]	X	X	X	X		-05

Lab Use Only

Sample Unpacked By: Jennifer Bowers
Sample Order Entry By: Jennifer Bowers
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Relinquished by:	Date/Time: 5.14.10 1600	Received by: Diane Dysard	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? (Y) or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? Y or N	On Ice (Y) or N	Cooler Temp: 3.8 °C

JD 5/14/10 client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24775

70

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (and Method) and Containers

Lab Sample ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 200.8	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) SIM	TCL Pest (8081A)	Grain Size (ASTM D422)		Gram Size			Matrices
100532-07	BBG-SB83-0-1-10B	5-13-10	1555	SO	3							X		X	X	X	X		100521	0-06		GW - Ground water
-08	BBG-SB83-6.5-7.5-10B	5-13-10	1605	SO	3							X		X	X	X	X			-07		WW - Waste water
-09	BBG-SB62-0-1-10B	5-13-10	1640	SO	3							X		X	X	X	X			-08		SW - Surface water
100530-20	BBG-SB05-0-1-10B	5-14-10	0800	SO	3							X	X	X	X	X	X			-09		SO - Soil/Sediment
100534-05	BBG-SB05-7-8-10B	5-14-10	0810	SO	3								X	X	X	X	X			-10		TB - Trip Blank
																						RI - Rinsate
																						WP - Wipe
																						O - Other

Lab Use Only

Sample Unpacked By: Jennifer Davis
Sample Order Entry By:
Samples Received in Good Condition: (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Shipped

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diana Byrd	Date/Time: 5-14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? (Gran Size. to CTLABS)
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 3.6 °C

Samples stored 60 days after date report mailed at no extra charge.

client delivered

White & Yellow copy to lab • Pink copy for customer

24779

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reportage Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St, 101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time:
Project Contact: Rebekka Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. Rogers / RDM	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Container ID (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2	Total Chromium (6010B)	TCL Pest (8081A) 8	SIM PAH's (8270C) 8	Grain Size (ASTM D422) 8	Chromium VI (7196A)		Grain size	Matrix
1005132-10	BBG-SS74-0-1-10B	5-14-10	1015	SO	3							X		X	X	X	X		1005210-11	
-11	BBG-SS86-0-1-10B	5-14-10	1105	SO	3							X		X	X	X	X		-12	
-12	BBG-SS86-3-4-10B	5-14-10	1115	SO	3							X		X	X	X	X		-13	

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Use Only

Sample Unpacked By: Jennifer Bass
Sample Order Entry By: [signature]
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Sample Custody

Relinquished by: [signature]	Date/Time: 5.14.10 1600	Received by: [signature]	Date/Time: 5/14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 3.2 °C

Samples stored 60 days after date report mailed at no extra charge.

client delivered

White & Yellow copy to lab • Pink copy for customer

24777

72

CHAIN OF CUSTODY

Page ____ of ____

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: KRogers / RDH

Project Information

Project Name: GTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem Lab # (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 264	Total Chromium (6010B)	SIM PAH's (8270C) 28	TCL Pest (8081A)	Grain Size (ASTM D422) 80	Chromium VI (7196A)		Grain size				
1005132-01	BBG-SS73-0-1-10B	5-14-10	0825	SO	3							X		X	X	X	X		1005209-14				
—	BBG-SS73-0-1-10B-MS	5-14-10	0825	SO	3							X		X	X	X	X		—				
—	BBG-SS73-0-1-10B-SD	5-14-10	0825	SO	3							X		X	X	X	X		—				
1005132-13	BBG-SS84-0-1-10B	5-14-10	0855	SO	3							X		X	X	X	X		1005209-15				
-14	BBG-SB84-6-7-10B	5-14-10	0905	SO	3							X		X	X	X	X		-16				
1005134-01	BBG-SS02-0-1-10B	5-14-10	0930	SO	3								X	X	X	X	X		-17				
-02	BBG-SS02D-0-1-10B	5-14-10	0935	SO	3								X	X	X	*X	X		—				
-03	BBG-SB02-5-6-10B	5-14-10	0940	SO	3								X	X	X	X	X		1005209-18				
-04	BBG-SB02D-5-6-10B	5-14-10	0945	SO	3								X	X	X	*X	X		—				

Lab Use Only

Sample Unpacked By: Jennifer Dorey
Sample Order Entry By: Jennifer Dorey
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

*did not rec'd Grainsize for BBG-SS02D-01-10B or BBG-SB02D-5-6-10B not needed on "dups" ED 5/14/10 or MS/MSD ED 5/14/10

Sample Custody

Relinquished by: [signature]	Date/Time: 5.14.10 1600	Received by: Diane Bush	Date/Time: 5-14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.7 °C

Samples stored 60 days after date report mailed at no extra charge.

SD 5/14/10 Client delivered

White & Yellow copy to lab • Pink copy for customer

24785

73

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Report Information		Project Information		Required Analysis		Comments
Company Name	CH2M HILL	Project Name	GTO 94			GW - Ground water
Address	5700 Cleveland St, 101	Sampling Location	MCB CAMP LEJEUNE			WW - Waste water
City / State / Zip	VA BEACH / VA / 23462	Turnaround time	PER CONTRACT			SW - Surface water
Project Contact	Rebekha Shaw	Batch QC or Project Specific? If Specific, which Sample ID?				SO - Soil/Sediment
Phone #	757-671-6279	Are aqueous samples field filtered for metals? Y or (N)				TB - Trip Blank
Sampler's Name	K. Rogers	Are high concentrations expected? Y or (N)? If yes, which ID(s)?				RI - Rinsate
						WP - Wipe
						O - Other

CompuChem Lab ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Metals 6010B (Shake 1-2oz.)	Tot Cr 6010B 1-2oz.	Cr VI 7196A	SIM PAH 8270C (Shake 1-8oz.)	TCL PEST 8081A	Grain Size ASTM D422 (1-8oz.)	Grain size	Lab Comments
1005132-15	BBG-SS81-0-1-10B	5.18	1600	SO	3							X		X	X	X	X	1005212-01	
-16	BBG-SS81-5-6-10B	5.18	1620	SO	3							X		X	X	X	X	-02	
1005133-11	BBG-SS67-0-1-10B	5.18	1700	SO	3							X		X	X	X	X	-03	
1005134-14	BBG-SB50-1-2-10B	5.18	1750	SO	3								X	X	X	X	X	-04	
1005132-17	BBG-SS71-0-1-10B	5.19	0735	SO	3							X		X	X	X	X	-05	
-18	BBG-SS71D-0-1-10B	5.19	0740	SO	3							X		X	X	X			
-19	BBG-SB71-4-5-10B	5.19	0755	SO	3							X		X	X	X	X	1005212-06	
-20	BBG-SB71D-4-5-10B	5.19	0800	SO	2							X		X	X	X			
1005133-12	BBG-SS72-0-1-10B	5.19	0835	SO	3							X		X	X	X	X	1005212-07	
-13	BBG-SB72-2-3-10B	5.19	0845	SO	3							X		X	X	X	X	-08	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By: Jeff Dove
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (N/A)
625 & Phenol samples checked for chlorine? Y or (N/A)
608 samples checked for pH between 5.0-9.0? Y or (N/A)

Relinquished by:	Date/Time: 5.21.10 1600	Received by: K. Manning	Date/Time: 5.21.10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 4.3 °C

Samples stored 60 days after date report mailed at no extra charge.

Client Delivery - KM 5.21.10

White & Yellow copy to lab • Pink copy for customer SN0015

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-01	SB85-1.5-2.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB85-1.5-2.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-01	SB85-1.5-2.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB85-1.5-2.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-02	SB78-3.5-4.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB78-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-02	SB78-3.5-4.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB78-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-03	SS77-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS77-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-03	SS77-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS77-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-04	SB77-3.5-4.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB77-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-04	SB77-3.5-4.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB77-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-05	SS79-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS79-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-05	SS79-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS79-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-06	SB79-11-12	05/13/2010	05/14/2010	06/03/2010	BBG-SB79-11-12-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-06	SB79-11-12	05/13/2010	05/14/2010	06/10/2010	BBG-SB79-11-12-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-07	SS83-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS83-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-07	SS83-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS83-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-08	SB83-6.5-7.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB83-6.5-7.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-08	SB83-6.5-7.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB83-6.5-7.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-09	SS62-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS62-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-09	SS62-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS62-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-10	SS74-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS74-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-10	SS74-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS74-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-11	SS86-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS86-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-11	SS86-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS86-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-12	SB86-3-4	05/14/2010	05/14/2010	06/03/2010	BBG-SB86-3-4-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-12	SB86-3-4	05/14/2010	05/14/2010	06/10/2010	BBG-SB86-3-4-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-13	SS84-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS84-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-13	SS84-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS84-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-14	SB84-6-7	05/14/2010	05/14/2010	06/03/2010	BBG-SB84-6-7-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-14	SB84-6-7	05/14/2010	05/14/2010	06/10/2010	BBG-SB84-6-7-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-15	SS81-0-1	05/18/2010	05/21/2010	06/03/2010	BBG-SS81-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-15	SS81-0-1	05/18/2010	05/21/2010	06/10/2010	BBG-SS81-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-16	SB81-5-6	05/18/2010	05/21/2010	06/03/2010	BBG-SB81-5-6-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-16	SB81-5-6	05/18/2010	05/21/2010	06/10/2010	BBG-SB81-5-6-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-17	SS71-0-1	05/19/2010	05/21/2010	06/03/2010	BBG-SS71-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-17	SS71-0-1	05/19/2010	05/21/2010	06/10/2010	BBG-SS71-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-18	SS71D-0-1	05/19/2010	05/21/2010	06/03/2010	BBG-SS71D-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-18	SS71D-0-1	05/19/2010	05/21/2010	06/10/2010	BBG-SS71D-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-19	SB71-4-5	05/19/2010	05/21/2010	06/03/2010	BBG-SB71-4-5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-19	SB71-4-5	05/19/2010	05/21/2010	06/10/2010	BBG-SB71-4-5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-20	SB71D-4-5	05/19/2010	05/21/2010	06/03/2010	BBG-SB71D-4-5-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-20	SB71D-4-5	05/19/2010	05/21/2010	06/10/2010	BBG-SB71D-4-5-10B

WORK ORDER

1005132

Printed: 5/28/2010 6:52:16PM

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DI**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/10/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/21/2010 16:00

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 22:26

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005132-01 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A*TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005132-01 SB85-1.5-2.5 [Soil] Sampled 05/13/2010 07:45 Eastern					**USE FOR QC**
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 07:45	05/14/2010 09:20	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 07:45	05/14/2010 09:20	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 07:45	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 07:45	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 07:45	05/14/2010 09:20	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 07:45	05/14/2010 09:20	SubList = GC- 8081 DOD
1005132-02 SB78-3.5-4.5 [Soil] Sampled 05/13/2010 10:40 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 10:40	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 10:40	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 10:40	05/14/2010 09:20	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 10:40	05/14/2010 09:20	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 10:40	05/14/2010 09:20	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 10:40	05/14/2010 09:20	SubList = GC- 8081 DOD

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005132-03 SS77-0-1 [Soil] Sampled 05/13/2010 12:05 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 12:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 12:05	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 12:05	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 12:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 12:05	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 12:05	05/14/2010 16:00	SubList = GC- 8081 DOD
1005132-04 SB77-3.5-4.5 [Soil] Sampled 05/13/2010 12:10 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 12:10	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 12:10	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 12:10	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 12:10	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 12:10	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 12:10	05/14/2010 16:00	SubList = SVsim- PAH
1005132-05 SS79-0-1 [Soil] Sampled 05/13/2010 15:10 Eastern					
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:10	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:10	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:10	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:10	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:10	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:10	05/14/2010 16:00	
1005132-06 SB79-11-12 [Soil] Sampled 05/13/2010 15:30 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:30	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:30	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:30	05/14/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:30	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:30	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:30	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Received**

Analysis	Due	TAT	Expires		Comments
1005132-07 SS83-0-1 [Soil] Sampled 05/13/2010 15:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:55	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:55	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:55	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:55	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:55	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:55	05/14/2010 16:00	SubList = SVsim- PAH
1005132-08 SB83-6.5-7.5 [Soil] Sampled 05/13/2010 16:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 16:05	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 16:05	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 16:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 16:05	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 16:05	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 16:05	05/14/2010 16:00	SubList = GC- 8081 DOD
1005132-09 SS62-0-1 [Soil] Sampled 05/13/2010 16:40 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 16:40	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 16:40	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 16:40	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 16:40	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 16:40	05/14/2010 16:00	SubList = SVsim- PAH
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 16:40	05/14/2010 16:00	
1005132-10 SS74-0-1 [Soil] Sampled 05/14/2010 10:15 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 10:15	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 10:15	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 10:15	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 10:15	05/14/2010 16:00	SubList = GC- 8081 DOD
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 10:15	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 10:15	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005132 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires		Comments
1005132-11 SS86-0-1 [Soil] Sampled 05/14/2010 11:05 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 11:05	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 11:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 11:05	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 11:05	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 11:05	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 11:05	05/14/2010 16:00	SubList = SVsim- PAH
1005132-12 SB86-3-4 [Soil] Sampled 05/14/2010 11:15 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 11:15	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 11:15	05/14/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 11:15	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 11:15	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 11:15	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 11:15	05/14/2010 16:00	
1005132-13 SS84-0-1 [Soil] Sampled 05/14/2010 08:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 08:55	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 08:55	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 08:55	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 08:55	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 08:55	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 08:55	05/14/2010 16:00	
1005132-14 SB84-6-7 [Soil] Sampled 05/14/2010 09:05 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 09:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 09:05	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 09:05	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 09:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 09:05	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 09:05	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005132-15 SS81-0-1 [Soil] Sampled 05/18/2010 16:00 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/14/2010 16:00	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/01/2010 16:00	05/21/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/15/2010 16:00	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/14/2010 16:00	05/21/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/14/2010 16:00	05/21/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/01/2010 16:00	05/21/2010 16:00	SubList = SVsim- PAH
1005132-16 SB81-5-6 [Soil] Sampled 05/18/2010 16:20 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/14/2010 16:20	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/15/2010 16:20	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/14/2010 16:20	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/01/2010 16:20	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/01/2010 16:20	05/21/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/14/2010 16:20	05/21/2010 16:00	
1005132-17 SS71-0-1 [Soil] Sampled 05/19/2010 07:35 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:35	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:35	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:35	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:35	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:35	05/21/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:35	05/21/2010 16:00	
1005132-18 SS71D-0-1 [Soil] Sampled 05/19/2010 07:40 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:40	05/21/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:40	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:40	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:40	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:40	05/21/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:40	05/21/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Batched**

Analysis	Due	TAT	Expires		Comments
1005132-19 SB71-4-5 [Soil] Sampled 05/19/2010 07:55 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:55	05/21/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:55	05/21/2010 16:00	SubList = SVsim- PAH
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:55	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:55	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:55	05/21/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:55	05/21/2010 16:00	
1005132-20 SB71D-4-5 [Soil] Sampled 05/19/2010 08:00 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 08:00	05/21/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 08:00	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 08:00	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 08:00	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 08:00	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 08:00	05/21/2010 16:00	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

5-24-2

DEPT: EXTR **DATE:** 5-24-10

BATCH: 0051919

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	PARAMETER	ID
0051919-BLK1	PBLKBO		
0051919-BS1	PBOLCS		
0051919-BSD1	PBOLCSD		
0051919-MS1	SB85-1.5-2.5MS		
0051919-MS2	SS73-0-1MS		
0051919-MSD1	SB85-1.5-2.5MSD		
0051919-MSD2	SS73-0-1MSD		
1005132-01	SB85-1.5-2.5		
1005132-02	SB78-3.5-4.5		
1005132-03	SS77-0-1		
1005132-04	SB77-3.5-4.5		
1005132-05	SS79-0-1		
1005132-06	SB79-11-12		
1005132-07	SS83-0-1		
1005132-08	SB83-6.5-7.5		
1005132-09	SS62-0-1		
1005132-10	SS74-0-1		
1005132-11	SS86-0-1		
1005132-12	SB86-3-4		
1005132-13	SS84-0-1		
1005132-14	SB84-6-7		
1005133-01	SS73-0-1		
1005134-01	SS02-0-1		
1005134-02	SS02D-0-1		
1005134-03	SB02-5-6		
1005134-04	SB02D-5-6		
1005134-05	SB05-7-8		

RELINQUISHED BY	DATE/TIME	REC. BY	REASON
MLott	5-24-10/1215pm	GC Ref #3	Storage
GC#3	5/24/10 1330	AHW	log in
AHW	↓ 1330	GC#4	Storage

Rev. 12/29/09:RM

TAJ 83 6/10/10

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

5-25-1

DEPT: EXTR **DATE:** 5-25-10

BATCH: 0052405

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0052405-BLK1	PBLKCE		
2	0052405-BS1	PCELCS		
3	0052405-BSD1	PCELCSD		
4	1005132-15	SS81-0-1		
5	1005132-16	SB81-5-6		
6	1005132-17	SS71-0-1		
7	1005132-18	SS71D-0-1		
8	1005132-19	SB71-4-5		
9	1005132-20	SB71D-4-5		
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				

	RELINQUISHED BY	DATE/TIME	REC. BY	REASON
	MLott	5-25-10 / 3:20pm	GC Ref #3	Storage
	GC#3	5/26/10 800	AHW	login
	AHW	5/26/10 800	GC#4	storage

Rev. 12/29/09:RM

TAJ 6/10/10

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE: LIBRTY

METHOD: 8081B

SDG #: 1005132

1. QC Summary

a. Surrogate Percent Recovery Summary (Form II)

b. Matrix Spike/Matrix Spike Duplicate/
Laboratory Control Sample Summary
(Form III)

c. Method Blank Summary (Form IV)

a. Surrogate Percent Recovery Summary

(Form II)

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC	#	S1 2 %REC	#	TCX 1 %REC	#	TCX 2 %REC	#	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKBO	76		75		57	*	53	*			2
02	PBOLCS	80		79		88		81				0
03	PBOLCSD	78		76		88		80				0
04	SB85-1.5-2.5	89		87		91		78				0
05	SB85-1.5-2.5	84		81		83		74				0
06	SB85-1.5-2.5	83		80		85		77				0
07	SB78-3.5-4.5	120		113		110		106				0
08	SS77-0-1	82		80		87		87				0
09	SB77-3.5-4.5	83		81		75		72				0
10	SS79-0-1	96		94		98		108				0
11	SB79-11-12	73		72		75		66	*			1
12	SS83-0-1	83		81		86		94				0
13	SB83-6.5-7.5	72		73		69	*	65	*			2
14	SS62-0-1	82		98		100		85				0
15	SS74-0-1	81		78		82		83				0
16	SS86-0-1	78		82		82		90				0
17	SB86-3-4	140	*	134	*	110		101				2
18	SS84-0-1	76		77		74		76				0
19	SB84-6-7	83		84		70	*	63	*			2
20	PBLKCE	85		81		91		78				0
21	PCELCS	80		77		89		80				0
22	PCELCSD	81		78		86		78				0
23	SS81-0-1	83		102		92		178	*			1
24	SB81-5-6	54	*	57		63	*	57	*			3
25	SS71-0-1	82		80		88		76				0
26	SS71D-0-1	45	*	45	*	50	*	45	*			4
27	SB71-4-5	78		76		81		68	*			1
28	SB71D-4-5	72		70		74		64	*			1
29	SS77-0-1DL	91		79		82		71				0
30	SS62-0-1DL	190	D	237	D	240	D	219	D			0

ADVISORY QC LIMITS

S1 = Decachlorobiphenyl (55-130)
S2 (TCX) = Tetrachloro-m-Xylene (70-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column(1): CLPEST ID: 0.32 (mm) GC Column(2): CLPEST2 ID: 0.32 (mm)

	EPA SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	TCX 1 %REC #	TCX 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	SS86-0-1DL	110	72	87	81			0
02	SS84-0-1DL	85	80	78	70D			0
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY QC LIMITS

S1 = Decachlorobiphenyl (55-130)
S2 (TCX) = Tetrachloro-m-Xylene (70-125)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

b. Matrix Spike/Matrix Spike Duplicate/
Laboratory Control Sample Summary

(Form III)

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SB85-1.5-2.5

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Aldrin	6.0	0.0	5.1	85	45-140
beta-BHC	6.0	0.56	5.7	86	60-125
alpha-BHC	6.0	0.0	5.6	93	60-125
delta-BHC	6.0	0.53	6.1	93	55-130
gamma-BHC (Lindane)	6.0	0.0	5.5	92	60-125
4,4'-DDD	15	0.0	15	100	30-135
4,4'-DDE	15	0.0	14	93	70-125
4,4'-DDT	15	0.0	14	93	45-140
Dieldrin	15	0.48	15	97	65-125
Endosulfan I	6.0	0.51	5.6	85	15-135
Endosulfan II	15	0.47	14	90	35-140
Endosulfan sulfate	15	0.0	14	93	60-135
Endrin	15	0.62	14	89	60-135
Endrin Aldehyde	15	0.47	8.4	53	35-145
Heptachlor	6.0	0.39	6.2	97	50-140
Heptachlor Epoxide	6.0	0.0	5.7	95	65-130
Methoxychlor	15	0.0	16	107	55-145
Endrin Ketone	15	0.0	15	100	65-135
gamma-Chlordane	6.0	0.0	5.7	95	65-125
alpha-Chlordane	6.0	0.0	6.5	108	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SB85-1.5-2.5

COMPOUND	SPIKE ADDED (ug/Kg	MSD CONCENTRATION (ug/Kg	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	6.0	4.9	82	4	40	45-140
beta-BHC	6.0	5.3	79	7	40	60-125
alpha-BHC	6.0	5.2	87	7	40	60-125
delta-BHC	6.0	5.7	86	7	40	55-130
gamma-BHC (Lindane)	6.0	5.0	83	10	40	60-125
4,4'-DDD	15	14	93	7	40	30-135
4,4'-DDE	15	13	87	7	40	70-125
4,4'-DDT	15	12	80	15	40	45-140
Dieldrin	15	14	90	7	40	65-125
Endosulfan I	6.0	5.3	80	6	40	15-135
Endosulfan II	15	13	84	7	40	35-140
Endosulfan sulfate	15	12	80	15	40	60-135
Endrin	15	13	82	7	40	60-135
Endrin Aldehyde	15	7.8	49	7	40	35-145
Heptachlor	6.0	5.8	90	7	40	50-140
Heptachlor Epoxide	6.0	5.3	88	7	40	65-130
Methoxychlor	15	15	100	6	40	55-145
Endrin Ketone	15	13	87	14	40	65-135
gamma-Chlordane	6.0	5.4	90	5	40	65-125
alpha-Chlordane	6.0	6.2	103	5	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 40 outside limits

COMMENTS: _____

3F

SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

LCS ID: PBOLCS Matrix Spike - EPA Sample No.: PBOLCS

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aldrin	5.0		3.8	76	45-140
beta-BHC	5.0		4.1	82	60-125
alpha-BHC	5.0		4.5	90	60-125
delta-BHC	5.0		4.8	96	55-130
gamma-BHC (Lindane)	5.0		4.2	84	60-125
4,4'-DDD	13		12	92	30-135
4,4'-DDE	13		11	85	70-125
4,4'-DDT	13		15	115	45-140
Dieldrin	13		12	92	65-125
Endosulfan I	5.0		4.3	86	15-135
Endosulfan II	13		11	85	35-140
Endosulfan sulfate	13		10	77	60-135
Endrin	13		11	85	60-135
Endrin Aldehyde	13		6.7	52	35-145
Heptachlor	5.0		4.9	98	50-140
Heptachlor Epoxide	5.0		5.0	100	65-130
Methoxychlor	13		12	92	55-145
Endrin Ketone	13		12	92	65-135
gamma-Chlordane	5.0		4.5	90	65-125
alpha-Chlordane	5.0		5.0	100	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3F
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

LCS ID: PBOLCS Matrix Spike - EPA Sample No.: PBOLCS

COMPOUND	SPIKE ADDED (ug/Kg	LCSD CONCENTRATION (ug/Kg	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	5.0	3.6	72	5	40	45-140
beta-BHC	5.0	4.1	82	0	40	60-125
alpha-BHC	5.0	4.4	88	2	40	60-125
delta-BHC	5.0	4.6	92	4	40	55-130
gamma-BHC (Lindane)	5.0	3.9	78	7	40	60-125
4,4'-DDD	13	11	85	9	40	30-135
4,4'-DDE	13	11	85	0	40	70-125
4,4'-DDT	13	10	77	40	40	45-140
Dieldrin	13	11	85	9	40	65-125
Endosulfan I	5.0	4.1	82	5	40	15-135
Endosulfan II	13	11	85	0	40	35-140
Endosulfan sulfate	13	10	77	0	40	60-135
Endrin	13	11	85	0	40	60-135
Endrin Aldehyde	13	6.0	46	11	40	35-145
Heptachlor	5.0	4.7	94	4	40	50-140
Heptachlor Epoxide	5.0	4.6	92	8	40	65-130
Methoxychlor	13	12	92	0	40	55-145
Endrin Ketone	13	11	85	9	40	65-135
gamma-Chlordane	5.0	4.3	86	4	40	65-125
alpha-Chlordane	5.0	4.8	96	4	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 40 outside limits

COMMENTS: _____

3F
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

LCS ID: PCELCS Matrix Spike - EPA Sample No.: PCELCS

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Aldrin	5.0		3.8	76	45-140
beta-BHC	5.0		4.0	80	60-125
alpha-BHC	5.0		4.4	88	60-125
delta-BHC	5.0		4.5	90	55-130
gamma-BHC (Lindane)	5.0		3.9	78	60-125
4,4'-DDD	13		11	85	30-135
4,4'-DDE	13		11	85	70-125
4,4'-DDT	13		10	77	45-140
Dieldrin	13		11	85	65-125
Endosulfan I	5.0		4.0	80	15-135
Endosulfan II	13		11	85	35-140
Endosulfan sulfate	13		9.9	76	60-135
Endrin	13		10	77	60-135
Endrin Aldehyde	13		6.2	48	35-145
Heptachlor	5.0		4.8	96	50-140
Heptachlor Epoxide	5.0		4.8	96	65-130
Methoxychlor	13		12	92	55-145
Endrin Ketone	13		11	85	65-135
gamma-Chlordane	5.0		4.4	88	65-125
alpha-Chlordane	5.0		4.7	94	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

COMMENTS: _____

3F
SOIL PESTICIDE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

LCS ID: PCELCS Matrix Spike - EPA Sample No.: PCELCS

COMPOUND	SPIKE ADDED (ug/Kg	LCSD CONCENTRATION (ug/Kg	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aldrin	5.0	3.7	74	3	40	45-140
beta-BHC	5.0	3.9	78	2	40	60-125
alpha-BHC	5.0	4.4	88	0	40	60-125
delta-BHC	5.0	4.3	86	4	40	55-130
gamma-BHC (Lindane)	5.0	3.9	78	0	40	60-125
4,4'-DDD	13	11	85	0	40	30-135
4,4'-DDE	13	10	77	10	40	70-125
4,4'-DDT	13	9.7	75	3	40	45-140
Dieldrin	13	11	85	0	40	65-125
Endosulfan I	5.0	4.0	80	0	40	15-135
Endosulfan II	13	10	77	10	40	35-140
Endosulfan sulfate	13	9.5	73	4	40	60-135
Endrin	13	10	77	0	40	60-135
Endrin Aldehyde	13	6.7	52	8	40	35-145
Heptachlor	5.0	4.7	94	2	40	50-140
Heptachlor Epoxide	5.0	4.6	92	4	40	65-130
Methoxychlor	13	12	92	0	40	55-145
Endrin Ketone	13	11	85	0	40	65-135
gamma-Chlordane	5.0	4.3	86	2	40	65-125
alpha-Chlordane	5.0	4.6	92	2	40	65-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 20 outside limits
Spike Recovery: 0 out of 40 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

PBLKBO

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-BLK1 Lab File ID: 016F0051919-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/20/10

Date Analyzed (1): 06/01/10 Date Analyzed (2): 06/01/10

Time Analyzed (1): 2305 Time Analyzed (2): 2305

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PBOLCS	0051919-BS1	06/01/10	06/01/10
02	PBOLCSD	0051919-BSD1	06/02/10	06/02/10
03	SB85-1.5-2.5	0051919-MS1	06/02/10	06/02/10
04	SB85-1.5-2.5	0051919-MSD1	06/02/10	06/02/10
05	SB85-1.5-2.5	1005132-01	06/02/10	06/02/10
06	SB78-3.5-4.5	1005132-02	06/02/10	06/02/10
07	SS77-0-1	1005132-03	06/02/10	06/02/10
08	SB77-3.5-4.5	1005132-04	06/02/10	06/02/10
09	SS79-0-1	1005132-05	06/02/10	06/02/10
10	SB79-11-12	1005132-06	06/02/10	06/02/10
11	SS83-0-1	1005132-07	06/02/10	06/02/10
12	SB83-6.5-7.5	1005132-08	06/02/10	06/02/10
13	SS62-0-1	1005132-09	06/02/10	06/02/10
14	SS74-0-1	1005132-10	06/02/10	06/02/10
15	SS86-0-1	1005132-11	06/02/10	06/02/10
16	SB86-3-4	1005132-12	06/02/10	06/02/10
17	SS84-0-1	1005132-13	06/02/10	06/02/10
18	SB84-6-7	1005132-14	06/02/10	06/02/10
19	SS77-0-1DL	1005132-03RE1	06/03/10	06/03/10
20	SS62-0-1DL	1005132-09RE1	06/03/10	06/03/10
21	SS86-0-1DL	1005132-11RE1	06/03/10	06/03/10
22	SS84-0-1DL	1005132-13RE1	06/03/10	06/03/10
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

4C

EPA SAMPLE NO.

PESTICIDE METHOD BLANK SUMMARY

PBLKCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0052405-BLK1 Lab File ID: 055F0052405-BLK1

Matrix (soil/water) SOIL Extraction:(SepF/Cont/Sonc) SONC

Sulfur Cleanup (Y/N) N Date Extracted: 05/24/10

Date Analyzed (1): 06/02/10 Date Analyzed (2): 06/02/10

Time Analyzed (1): 1801 Time Analyzed (2): 1801

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column (1): CLPEST ID: 0.32(mm) GC Column (2): CLPEST2 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PCELCS	0052405-BS1	06/02/10	06/02/10
02	PCELCSD	0052405-BSD1	06/02/10	06/02/10
03	SS81-0-1	1005132-15	06/02/10	06/02/10
04	SB81-5-6	1005132-16	06/02/10	06/02/10
05	SS71-0-1	1005132-17	06/02/10	06/02/10
06	SS71D-0-1	1005132-18	06/02/10	06/02/10
07	SB71-4-5	1005132-19	06/02/10	06/02/10
08	SB71D-4-5	1005132-20	06/02/10	06/02/10
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I), followed by the raw data for samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results

Tabulated results (identification and quantitation) shall be included.

b. Copies of Chromatograms

Positively identified compounds shall be labeled with the names of compounds, either directly out from the peak on the chromatogram, or on a printout of retention times on the data system printout if retention times are printed over the peak on the chromatogram. Included for each sample or sample extract, dilutions, and reanalysis. The chromatogram shall contain the following header information: Client Sample ID number, volume injected (uL), date and time of injection, GC column ID, and GC instrument ID.

c. Copies of Chromatograms from the Second Column

(if necessary)

d. Data System Printout

A printout of retention time and corresponding peak height or peak Area shall accompany each chromatogram. Where edits have been Made, initialing, dating and integration time range are required.

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB71-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	4.1	U
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	0.25	JP
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	0.30	JBP
5103-71-9	alpha-Chlordane	2.1	U

Data File: /chem/tracegc82.i/f100601d.b/062f1005132-19.d

Page 1

Date : 02-JUN-2010 21:25

Client ID: SB71-4-5

Instrument: tracegc82.i

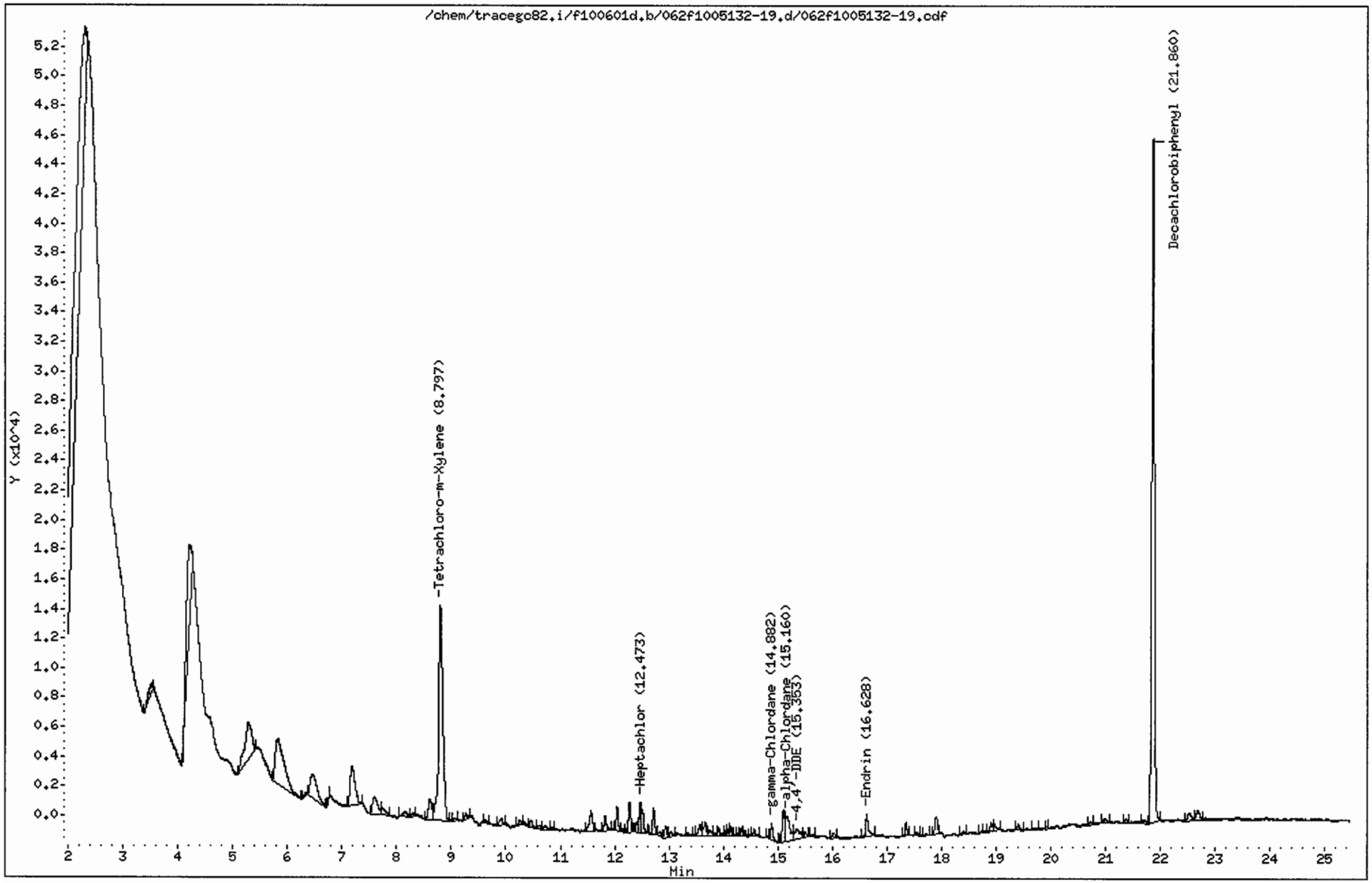
Sample Info: 1005132-19

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-19 Client Smp Id : SB71-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:25 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SB71-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			100823								
1.81			1008								
2.29			142581								
3.50			3844								
4.21			38327								
5.29			21181								
5.82			35310								
6.32			694								
6.46			13683								
6.78			420								
7.19			16697								
7.59			7837								
7.74			2425								
8.15			2124								
8.31			812								
8.60			6665								
8.80	8.73	8.87	76954	1587700	Tetrachloro-m-Xylene	0.048468	10.09755		80.8	70 - 125	
9.05			448								
9.27			1409								
9.64			760								
9.91			1452								
10.25			985								
10.34			885								
10.46			1756								
10.62			760								
10.71			1278								
10.84			456								
11.56			5215								
11.82			3084								
12.04			4173								
12.15			607								
12.23			497								
12.27			5660								
12.41			1614								
12.47	12.38	12.52	5105	2589888	Heptachlor	0.001971	0.410652	2.125000			J
12.51			3776								
12.72			4689								

6/3/10

CompuChem

Lab Smp Id : 1005132-19 Client Smp Id : SB71-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:25 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SB71-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.83		750								
12.94		2130								
13.04		979								
13.35		625								
13.57		2850								
13.66		3344								
13.74		1439								
13.86		608								
13.91		1743								
14.05		883								
14.10		1038								
14.14		1362								
14.26		387								
14.32		1263								
14.39		986								
14.56		1400								
14.82		458								
14.88	14.84 14.98	3270	2245768	gamma-Chlordane	0.001456	0.303256	2.125000			J
15.10		6331								
15.16	15.15 15.29	10067	1924148	alpha-Chlordane	0.005231	1.089877	2.125000			J
15.35	15.34 15.48	4296	2012896	4,4'-DDE	0.002134	0.444633	4.125000			J
15.50		1158								
15.63		306								
16.02		899								
16.63	16.51 16.65	4894	1695798	Endrin	0.002886	0.601241	4.125000			J
17.35		2236								
17.55		529								
17.70		390								
17.90		3882								
18.40		509								
18.73		301								
18.91		1821								
18.98		1594								
19.41		1400								
19.70		482								
19.92		291								
20.73		502								

CompuChem

Lab Smp Id : 1005132-19 Client Smp Id : SB71-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:25 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SB71-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.98		1048								
21.36		870								
21.69		986								
21.86	21.79 21.93	152758	1622138	Decachlorobiphenyl	0.094170	19.61878		78.5	55 - 130	
22.53		2561								
22.68		3103								

Data File: /chem/tracegc82.i/f100601d_2C.b/062f1005132-19.d

Date : 02-JUN-2010 21:25

Client ID: SB71-4-5

Instrument: tracegc82.i

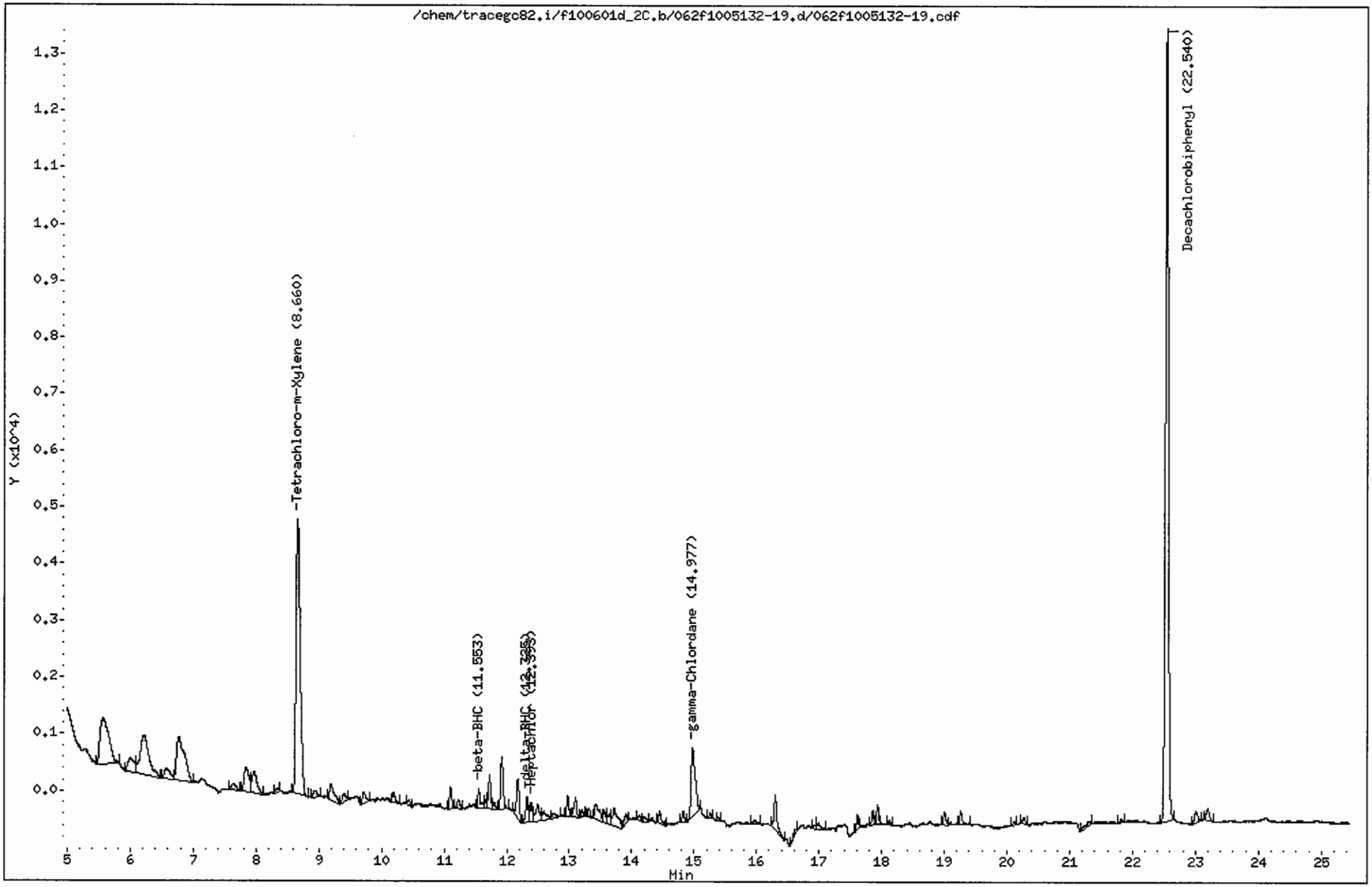
Sample Info: 1005132-19

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-19 Client Smp Id : SB71-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:25 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SB71-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.35			337								
1.51			128020								
1.71			20501								
2.08			696324								
3.16			930								
3.51			52871								
4.71			859								
4.86			1082								
5.57			7752								
6.01			1677								
6.21			6814								
6.58			1168								
6.77			6674								
7.63			646								
7.84			2357								
7.97			1988								
8.34			215								
8.66	8.59	8.73	22431	548876	Tetrachloro-m-Xylene	0.040867	8.513990		68.1*	70 - 125	R
8.94			449								
9.20			1489								
9.40			580								
9.72			737								
10.19			564								
10.43			290								
11.11			952								
11.23			448								
11.55	11.50	11.64	1020	347428	beta-BHC	0.002933	0.611039	1.063750			J
11.68			369								
11.72			1500								
11.80			263								
11.92			2607								
12.18			1999								
12.32	12.22	12.36	1307	827595	delta-BHC	0.001579	0.329016	2.125000			J
12.39	12.33	12.47	927	778205	Heptachlor	0.001190	0.247899	2.125000			J
12.50			1272								
12.60			690								
12.75			436								

6/3/10

CompuChem

Lab Smp Id : 1005132-19 Client Smp Id : SB71-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:25 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SB71-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.98		887								
13.10		1068								
13.21		271								
13.31		431								
13.42		1475								
13.56		710								
13.64		562								
13.72		1760								
13.91		515								
14.13		248								
14.20		317								
14.45		731								
14.83		507								
14.98	14.88 15.02	5598	690205	gamma-Chlordane	0.008109	1.689414	2.125000			J
15.26		238								
15.39		151								
15.97		251								
16.30		2068								
16.63		316								
16.93		169								
16.99		411								
17.61		557								
17.86		562								
17.93		791								
18.12		169								
19.00		619								
19.26		639								
20.11		128								
20.27		343								
21.31		357								
21.82		170								
22.54	22.47 22.61	45513	497254	Decachlorobiphenyl	0.091527	19.06804		76.3	55 - 130	
23.01		710								
23.20		791								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB71D-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 20 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.1	U
72-55-9	4,4'-DDE	4.1	U
50-29-3	4,4'-DDT	0.67	J
60-57-1	Dieldrin	4.1	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.1	U
1031-07-8	Endosulfan sulfate	4.1	U
72-20-8	Endrin	4.1	U
7421-93-4	Endrin Aldehyde	4.1	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.1	U
5103-74-2	gamma-Chlordane	0.55	JBP
5103-71-9	alpha-Chlordane	0.26	JP

Data File: /chem/tracegc82.i/f100601d.b/063f1005132-20.d

Page 1

Date : 02-JUN-2010 21:54

Client ID: SB71D-4-5

Instrument: tracegc82.i

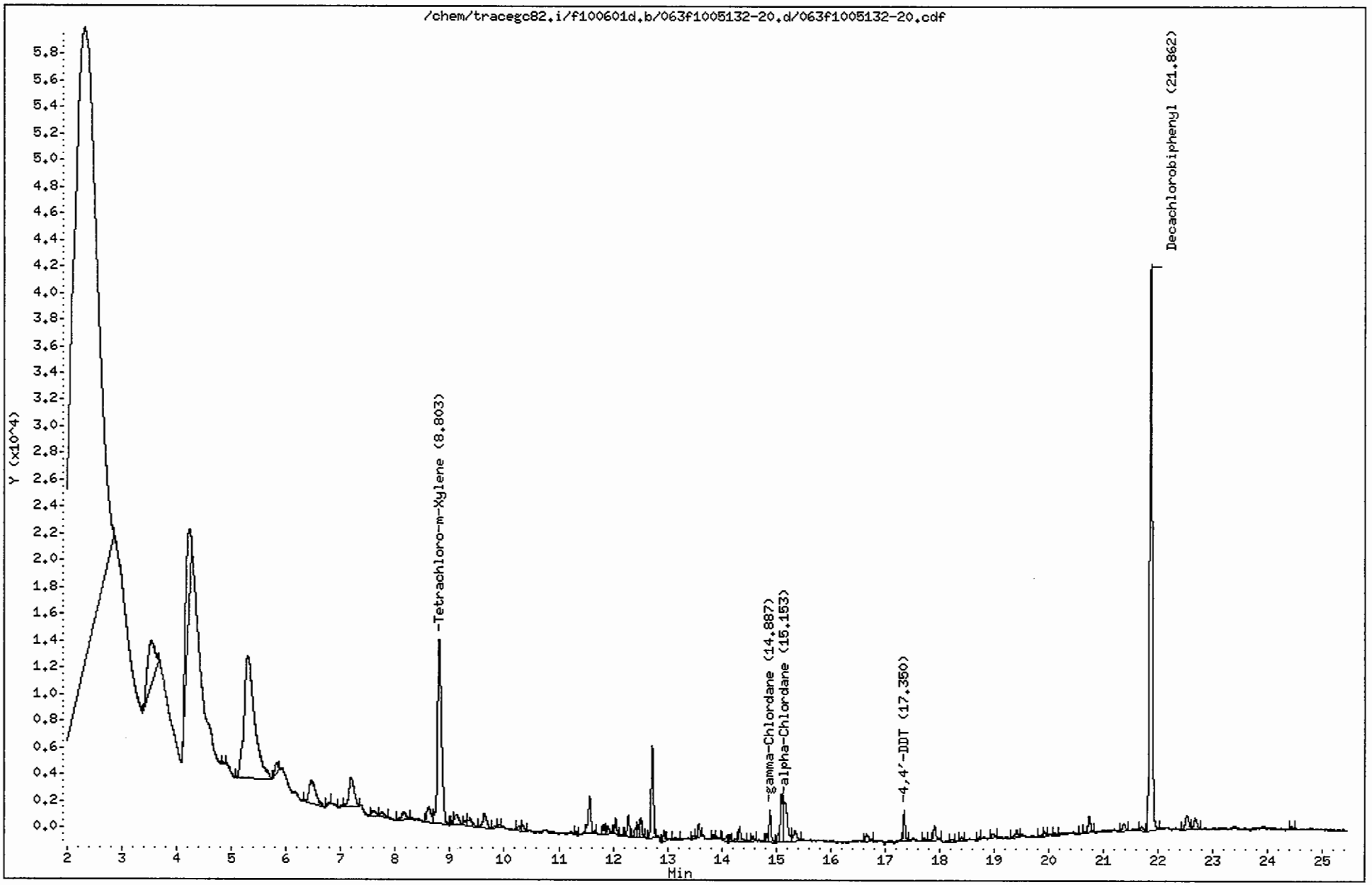
Sample Info: 1005132-20

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-20 Client Smp Id : SB71D-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:54 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SB71D-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
0.05		540								
1.50		134326								
2.32		1465480								
3.54		32256								
4.22		45101								
4.86		365								
5.30		125624								
5.82		3790								
6.46		15064								
6.79		421								
7.01		437								
7.18		15102								
7.59		2433								
7.75		1955								
8.15		3308								
8.61		6379								
8.80	8.73 8.87	70260	1587700	Tetrachloro-m-Xylene	0.044253	9.219314		73.8	70 - 125	
9.06		733								
9.12		4165								
9.27		1373								
9.37		3043								
9.62		5365								
9.81		444								
9.91		932								
10.27		1585								
10.34		1694								
11.33		498								
11.57		9455								
11.82		1972								
11.90		1896								
12.05		2899								
12.15		365								
12.28		4324								
12.41		1723								
12.47		2245								
12.52		3793								
12.72		20543								

6/3/10

CompuChem

Lab Smp Id : 1005132-20 Client Smp Id : SB71D-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:54 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SB71D-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.94		1930								
13.14		485								
13.48		480								
13.58		2354								
13.85		822								
13.92		649								
14.10		1219								
14.14		1253								
14.24		989								
14.33		3584								
14.57		1118								
14.82		1465								
14.89	14.84 14.98	5941	2245768	gamma-Chlordane	0.002645	0.551129	2.125000			J
15.03		1321								
15.10		11640								
15.15	15.15 15.29	15398	1924148	alpha-Chlordane	0.008003	1.667189	2.125000			J
15.35		3469								
16.66		2065								
17.35	17.27 17.41	5504	1722489	4,4'-DDT	0.003195	0.665703	4.125000			J
17.71		382								
17.91		3609								
18.23		555								
18.40		736								
18.73		531								
18.97		1145								
19.41		2044								
19.88		464								
19.92		715								
20.11		458								
20.58		381								
20.74		4139								
21.37		1878								
21.69		1366								
21.86	21.79 21.93	139789	1622138	Decachlorobiphenyl	0.086176	17.95328		71.8	55 - 130	
22.53		4948								
22.68		3669								
24.43		669								

Data File: /chem/tracegc82.i/f100601d_2C.b/063f1005132-20.d

Page 1

Date : 02-JUN-2010 21:54

Client ID: SB71D-4-5

Instrument: tracegc82.i

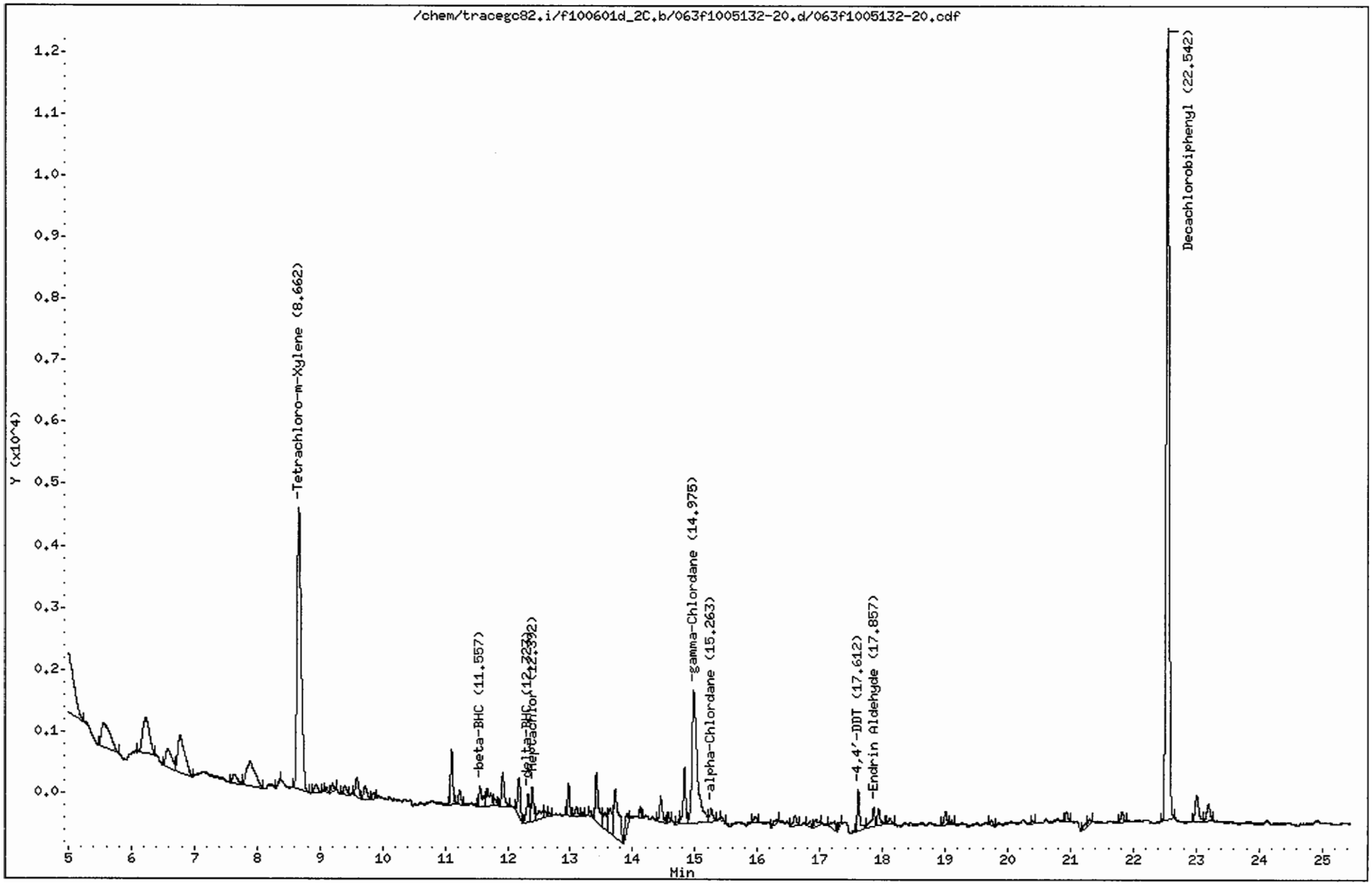
Sample Info: 1005132-20

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-20 Client Smp Id : SB71D-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:54 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SB71D-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			323								
1.53			27588								
1.65			3829								
2.08			31274								
3.18			1773								
3.52			66352								
4.55			1456								
4.66			2251								
4.85			27230								
5.56			3871								
6.23			4404								
6.59			2162								
6.77			4541								
7.64			853								
7.89			3982								
8.36			130								
8.66	8.59	8.73	21019	548876	Tetrachloro-m-Xylene	0.038293	7.977667		63.8*	70 - 125	R
8.94			502								
9.11			185								
9.20			436								
9.40			540								
9.59			1103								
9.72			799								
9.86			276								
11.10			2288								
11.23			680								
11.56	11.50	11.64	1192	347428	beta-BHC	0.003431	0.714777	1.063750			J
11.67			1283								
11.79			305								
11.92			1662								
12.18			1877								
12.32	12.22	12.36	1407	827595	delta-BHC	0.001700	0.354189	2.125000			J
12.39	12.33	12.47	1468	778205	Heptachlor	0.001886	0.392998	2.125000			J
12.50			818								
12.59			290								
12.67			157								
12.98			1226								

6/3/10

CompuChem

Lab Smp Id : 1005132-20 Client Smp Id : SB71D-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:54 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SB71D-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.10		436								
13.20		133								
13.32		289								
13.42		2848								
13.56		1045								
13.64		1648								
13.72		4349								
13.91		902								
14.13		371								
14.45		1244								
14.57		319								
14.75		208								
14.83		2557								
14.98	14.88 15.02	12611	690205	gamma-Chlordane	0.018270	3.806236	2.125000			
15.26	15.21 15.35	759	595455	alpha-Chlordane	0.001273	0.265203	2.125000			J
15.43		150								
15.96		321								
16.30		298								
16.60		589								
16.81		255								
16.93		446								
17.23		571								
17.31		174								
17.61	17.55 17.69	1783	503765	4,4'-DDT	0.003539	0.737364	4.125000			J
17.86	17.81 17.95	1165	425754	Endrin Aldehyde	0.002736	0.570067	4.125000			J
17.94		763								
18.12		297								
19.01		655								
19.10		122								
19.75		221								
20.40		123								
20.94		439								
21.24		247								
21.31		278								
21.83		478								
22.54	22.47 22.61	41646	497254	Decachlorobiphenyl	0.083752	17.44831		69.8	55 - 130	
23.00		1639								

CompuChem

Lab Smp Id : 1005132-20 Client Smp Id : SB71D-4-5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 21:54 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SB71D-4-5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 20(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.20		959								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB77-3.5-4.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 10 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	0.26	JP
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.7	U
72-55-9	4,4'-DDE	3.7	U
50-29-3	4,4'-DDT	3.7	U
60-57-1	Dieldrin	3.7	U
959-98-8	Endosulfan I	0.32	J
33213-65-9	Endosulfan II	3.7	U
1031-07-8	Endosulfan sulfate	3.7	U
72-20-8	Endrin	3.7	U
7421-93-4	Endrin Aldehyde	3.7	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	92	U
53494-70-5	Endrin Ketone	3.7	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	0.20	JP

FORM I PEST

Data File: /chem/tracegc82.i/f100601b.b/030f1005132-04.d

Date : 02-JUN-2010 05:53

Client ID: SB77-3.5-4.5

Instrument: tracegc82.i

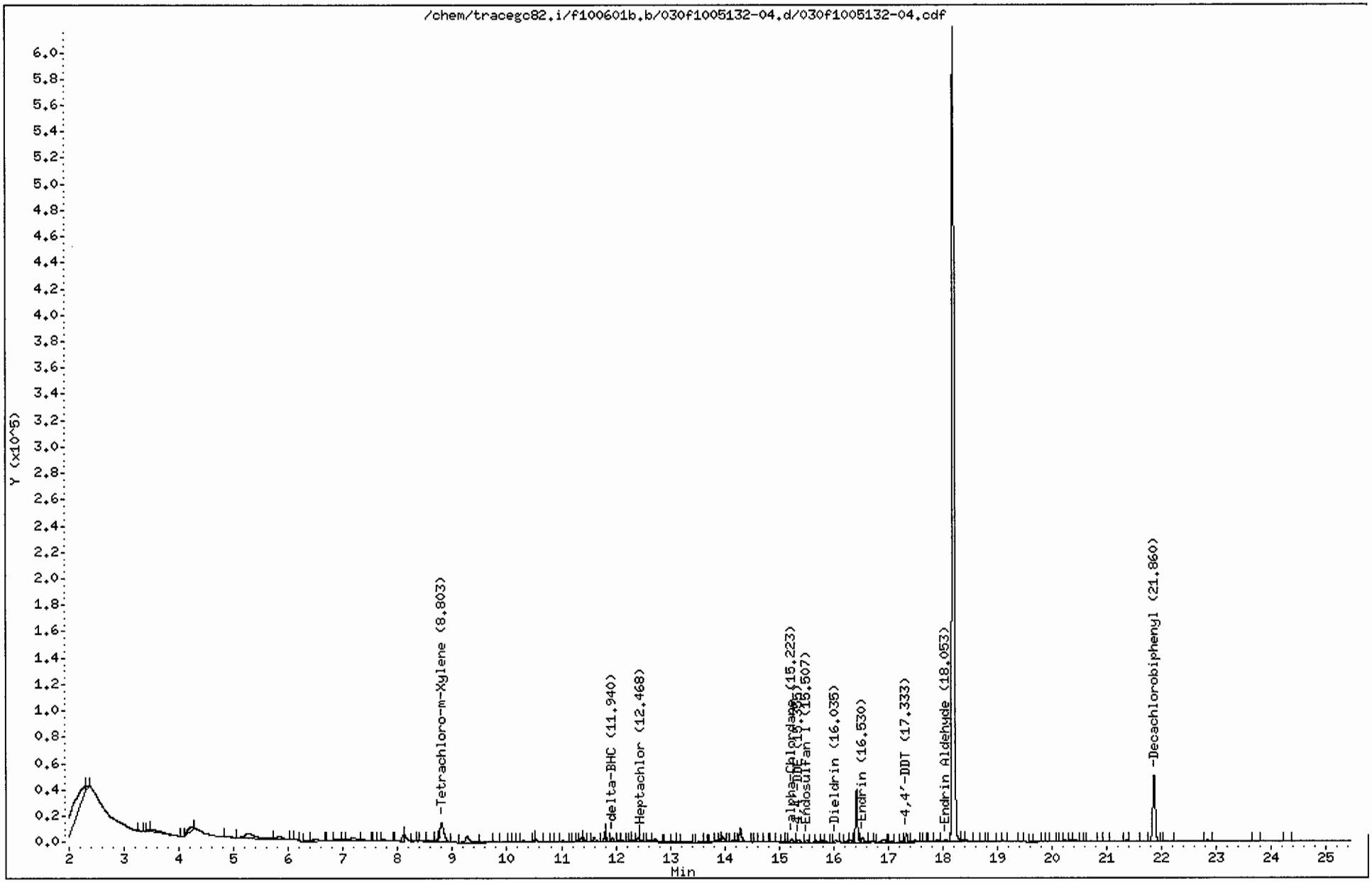
Sample Info: 1005132-04

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-04 Client Smp Id : SB77-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:53 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SB77-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.05			292								
1.39			446								
1.51			20234								
2.29			115878								
2.33			9323								
3.28			665								
3.47			1561								
3.52			14211								
4.21			18091								
4.87			3400								
5.26			54578								
5.83			14045								
6.14			843								
6.39			2695								
6.50			11666								
6.79			1326								
6.88			1624								
7.18			15785								
7.37			2976								
7.62			873								
7.67			2059								
7.74			4355								
8.11			10704								
8.28			468								
8.46			1479								
8.62			5268								
8.73			3263								
8.80	8.73	8.87	71198	1587700	Tetrachloro-m-Xylene	0.044843	8.304352		74.7	70 - 125	
9.27			33050								
9.63			7782								
9.82			2777								
9.92			2678								
10.14			575								
10.20			1067								
10.29			6427								
10.52			4347								
10.72			1501								

CompuChem

Lab Smp Id : 1005132-04 Client Smp Id : SB77-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:53 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SB77-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.89		741								
11.03		4173								
11.23		725								
11.29		3010								
11.36		6494								
11.40		9729								
11.51		1303								
11.60		15652								
11.80		12229								
11.94	11.85 11.99	9229	2721052	delta-BHC	0.003392	0.628093	1.888889			J
12.05		4496								
12.13		3455								
12.20		449								
12.28		2406								
12.31		5660								
12.41		8809								
12.47	12.38 12.52	3944	2589888	Heptachlor	0.001523	0.282009	1.888889			J
12.52		2487								
12.60		6919								
12.71		12446								
12.94		1509								
13.05		2392								
13.14		550								
13.25		1313								
13.56		3770								
13.63		2243								
13.80		1686								
13.84		2461								
13.91		3802								
13.96		13156								
14.14		2767								
14.22		2124								
14.29		33530								
14.57		754								
14.65		1349								
14.76		1312								
14.87		997								

CompuChem

Lab Smp Id : 1005132-04 Client Smp Id : SB77-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:53 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SB77-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.97		1571								
15.09		1427								
15.13		1958								
15.22	15.15 15.29	8616	1924148	alpha-Chlordane	0.004477	0.829131	1.888889			J
15.36	15.34 15.48	5244	2012896	4,4'-DDE	0.002605	0.482353	3.666667			J
15.51	15.45 15.59	4603	2067970	Endosulfan I	0.002226	0.412195	1.888889			J
15.63		608								
15.69		4082								
15.79		4531								
15.86		2289								
16.04	15.99 16.13	5849	2037205	Dieldrin	0.002871	0.531593	3.666667			J
16.25		3294								
16.31		5318								
16.42		98153								
16.53	16.51 16.65	9358	1695798	Endrin	0.005518	1.021807	3.666667			J
16.64		945								
16.91		9190								
17.05		1751								
17.24		2310								
17.33	17.27 17.41	17117	1722489	4,4'-DDT	0.009937	1.840145	3.666667			J
17.49		5393								
17.66		1014								
17.79		1927								
17.92		6041								
18.05	17.93 18.07	6370	1371845	Endrin Aldehyde	0.004643	0.859886	3.666667			J
18.20		1926080								
18.37		5296								
18.42		3834								
18.71		486								
18.90		1864								
19.04		2344								
19.11		2981								
19.29		6641								
19.41		1626								
19.60		296								
19.72		2791								
19.93		951								

CompuChem

Lab Smp Id : 1005132-04 Client Smp Id : SB77-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:53 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SB77-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.01		1258								
20.16		691								
20.25		2745								
20.34		2465								
20.43		3374								
20.63		755								
20.70		3286								
20.88		344								
20.98		829								
21.37		2339								
21.45		3221								
21.86	21.79 21.93	162275	1622138	Decachlorobiphenyl	0.100038	18.52550		83.4	55 - 130	
22.10		1417								
22.82		2698								
23.70		1190								
24.30		1149								

Data File: /chem/tracegc82.i/f100601b_2C.b/030f1005132-04.d

Date : 02-JUN-2010 05:53

Client ID: SB77-3.5-4.5

Instrument: tracegc82.i

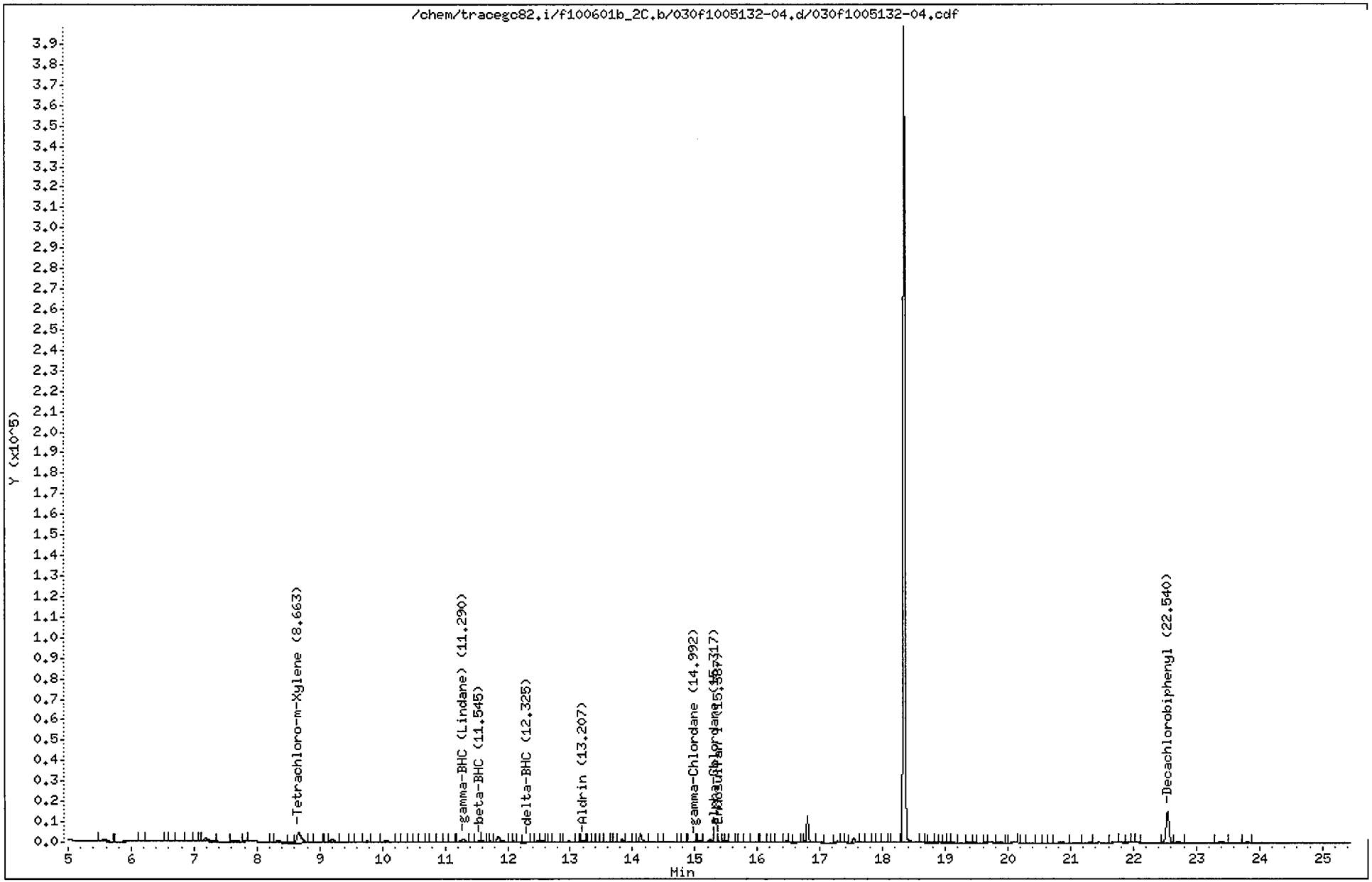
Sample Info: 1005132-04

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-04 Client Smp Id : SB77-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:53 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB77-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
0.09			150								
1.36			349								
2.08			38557								
3.16			6158								
3.51			23030								
4.67			226								
4.79			316								
5.56			4829								
6.03			4099								
6.17			350								
6.59			160								
6.76			1288								
7.04			135								
7.18			7796								
7.62			1062								
7.83			205								
8.25			297								
8.34			5208								
8.54			1253								
8.66	8.59	8.73	23672	548876	Tetrachloro-m-Xylene	0.043126	7.986355		71.9	70 - 125	
8.96			718								
9.12			309								
9.19			6360								
9.38			515								
9.49			214								
9.75			1822								
9.88			823								
10.06			3961								
10.23			249								
10.33			460								
10.45			498								
10.54			122								
10.71			211								
10.91			849								
11.11			1079								
11.29	11.25	11.39	7288	866882	gamma-BHC (Lindane)	0.008407	1.556877	1.888889			J
11.40			156								

CompuChem

Lab Smp Id : 1005132-04 Client Smp Id : SB77-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:53 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB77-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.54	11.50 11.64	2537	347428	beta-BHC	0.007299	1.351734	0.945556			
11.61		2685								
11.69		482								
11.73		1027								
11.85		11955								
12.06		721								
12.09		1189								
12.18		1224								
12.32	12.22 12.36	1143	827595	delta-BHC	0.001381	0.255761	1.888889			J
12.39		317								
12.47		1705								
12.56		2010								
12.68		291								
12.79		1561								
12.98		2966								
13.11		301								
13.21	13.10 13.24	1587	726628	Aldrin	0.002184	0.404456	1.888889			J
13.31		478								
13.38		546								
13.45		725								
13.50		422								
13.57		1275								
13.68		305								
13.72		741								
13.83		5181								
13.91		1734								
14.03		787								
14.13		12008								
14.32		1580								
14.45		227								
14.75		225								
14.82		410								
14.99	14.88 15.02	1017	690205	gamma-Chlordane	0.001472	0.272597	1.888889			J
15.04		471								
15.08		1756								
15.25		4456								
15.32	15.21 15.35	660	595455	alpha-Chlordane	0.001107	0.204948	1.888889			J

CompuChem

Lab Smp Id : 1005132-04 Client Smp Id : SB77-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:53 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB77-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.39	15.33 15.47	1113	638725	Endosulfan I	0.001741	0.322402	1.888889			J
15.46		1441								
15.50		1325								
15.56		851								
15.69		325								
15.81		1033								
15.95		682								
16.09		472								
16.17		357								
16.32		489								
16.45		2272								
16.50		749								
16.65		921								
16.73		146								
16.80		29902								
16.99		510								
17.28		1839								
17.41		178								
17.54		5266								
17.76		736								
17.87		577								
17.93		625								
18.04		293								
18.24		1403								
18.35		862842								
18.61		323								
18.77		376								
18.84		248								
19.00		447								
19.06		653								
19.12		776								
19.39		277								
19.46		128								
19.64		402								
19.88		1557								
20.07		1893								
20.24		330								

CompuChem

Lab Smp Id : 1005132-04 Client Smp Id : SB77-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:53 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB77-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 10(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.36		701								
20.59		277								
20.85		1140								
21.30		454								
21.71		1055								
21.82		551								
21.93		209								
22.06		397								
22.54	22.47 22.61	48312	497254	Decachlorobiphenyl	0.097157	17.99213		81.0	55 - 130	
22.71		960								
23.40		1096								
23.80		489								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB78-3.5-4.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 14 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.8	U
72-55-9	4,4'-DDE	3.8	U
50-29-3	4,4'-DDT	3.8	U
60-57-1	Dieldrin	3.8	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	3.8	U
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	97	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

Data File: /chem/tracegc82.i/f100601a.b/024f1005132-02.d

Page 1

Date : 02-JUN-2010 02:59

Client ID: SB78-3.5-4.5

Instrument: tracegc82.i

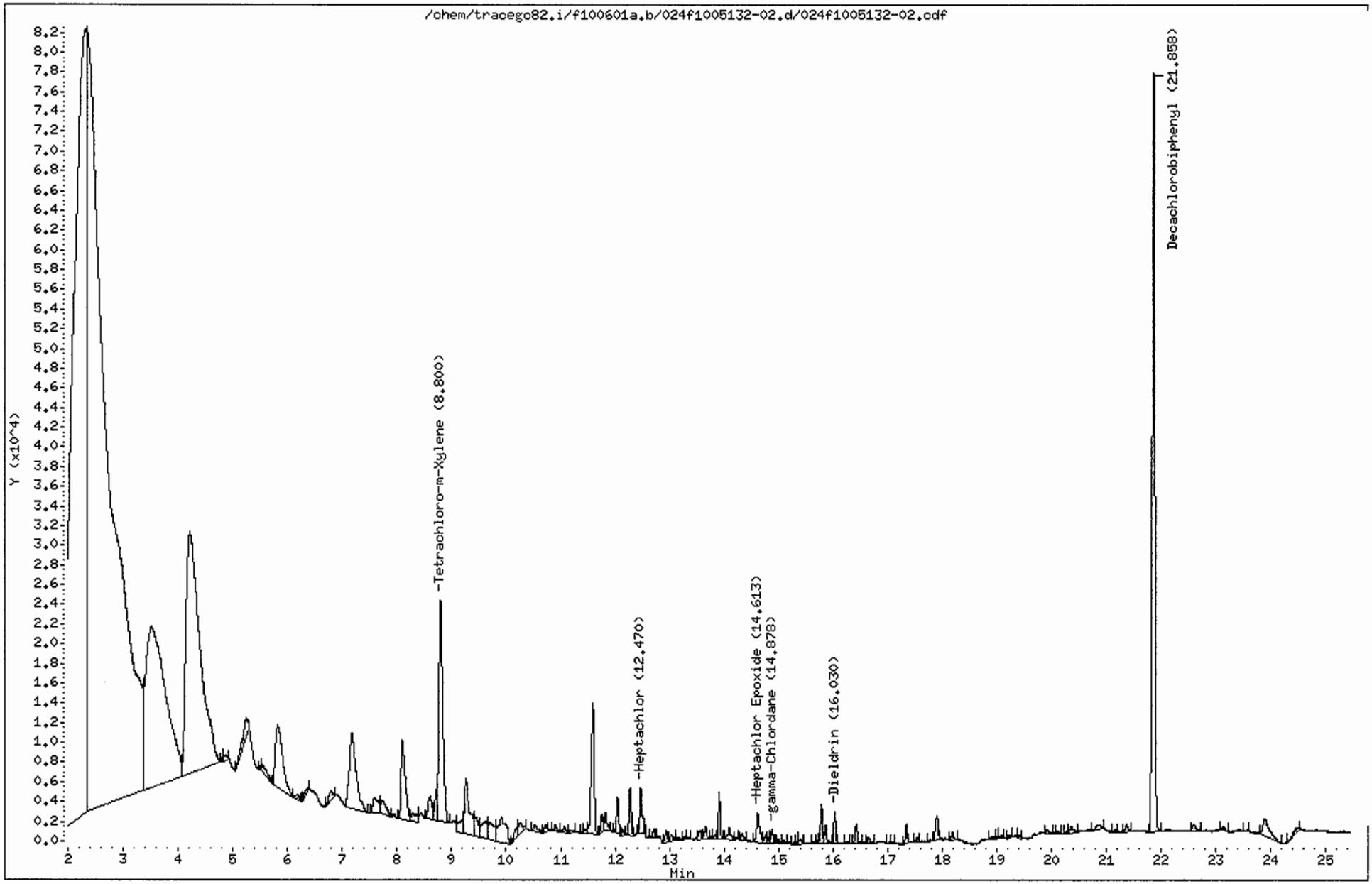
Sample Info: 1005132-02

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-02 Client Smp Id : SB78-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:59 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB78-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48			33391								
2.31			1435198								
2.35			2114395								
3.52			416333								
4.22			434639								
4.82			785								
4.85			2036								
5.25			14189								
5.51			494								
5.54			5988								
5.83			59411								
6.17			2418								
6.37			2453								
6.80			4598								
7.18			66416								
7.58			10325								
7.73			8690								
8.10			43865								
8.29			5705								
8.61			12403								
8.73			7533								
8.80	8.73	8.87	109363	1587700	Tetrachloro-m-Xylene	0.068881	13.34907		114.8	70 - 125	M
9.21			7223								
9.27			35902								
9.44			10134								
9.62			12375								
9.70			14482								
9.91			24736								
10.21			5081								
10.26			5286								
10.53			3918								
10.72			2257								
10.90			2226								
11.07			2133								
11.19			810								
11.41			455								
11.45			976								

CompuChem

Lab Smp Id : 1005132-02 Client Smp Id : SB78-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:59 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB78-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.59		49424								
11.75		4693								
11.82		5933								
11.99		417								
12.04		9603								
12.14		1391								
12.27		13288								
12.47	12.38 12.52	14639	2589888	Heptachlor	0.005652	1.095420	1.976744			J
12.72		2247								
12.94		3279								
13.03		2846								
13.14		1210								
13.28		896								
13.35		490								
13.56		3180								
13.67		3830								
13.77		830								
13.84		1025								
13.91		10306								
14.10		4325								
14.22		468								
14.33		1880								
14.61	14.56 14.70	11409	2235460	Heptachlor Epoxide	0.005103	0.988992	1.976744			J
14.76		2041								
14.82		1077								
14.88	14.84 14.98	3632	2245768	gamma-Chlordane	0.001617	0.313337	1.976744			J
14.99		1077								
15.09		1083								
15.28		489								
15.36		736								
15.40		1390								
15.64		478								
15.71		681								
15.79		9306								
15.87		4971								
16.03	15.99 16.13	7220	2037205	Dieldrin	0.003544	0.686836	3.837209			J
16.27		386								

CompuChem

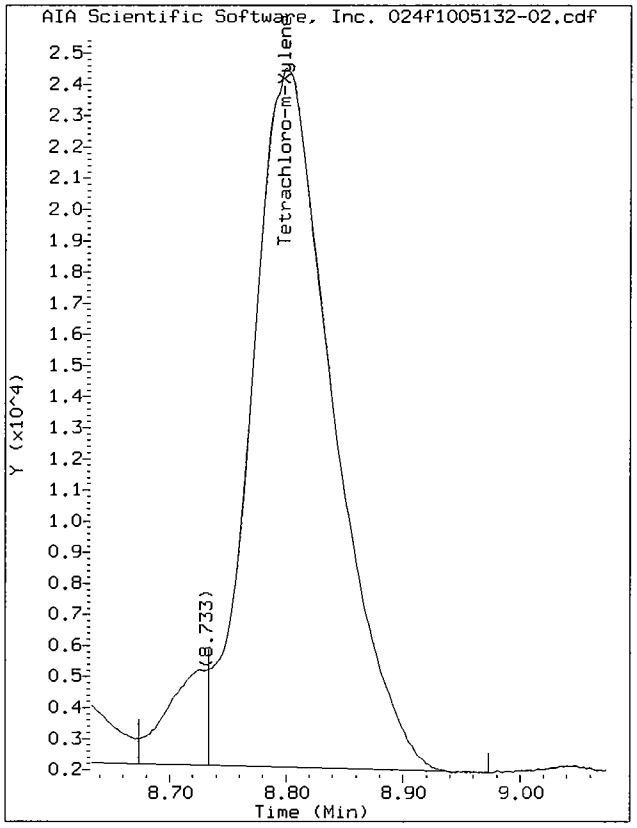
Lab Smp Id : 1005132-02 Client Smp Id : SB78-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:59 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB78-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

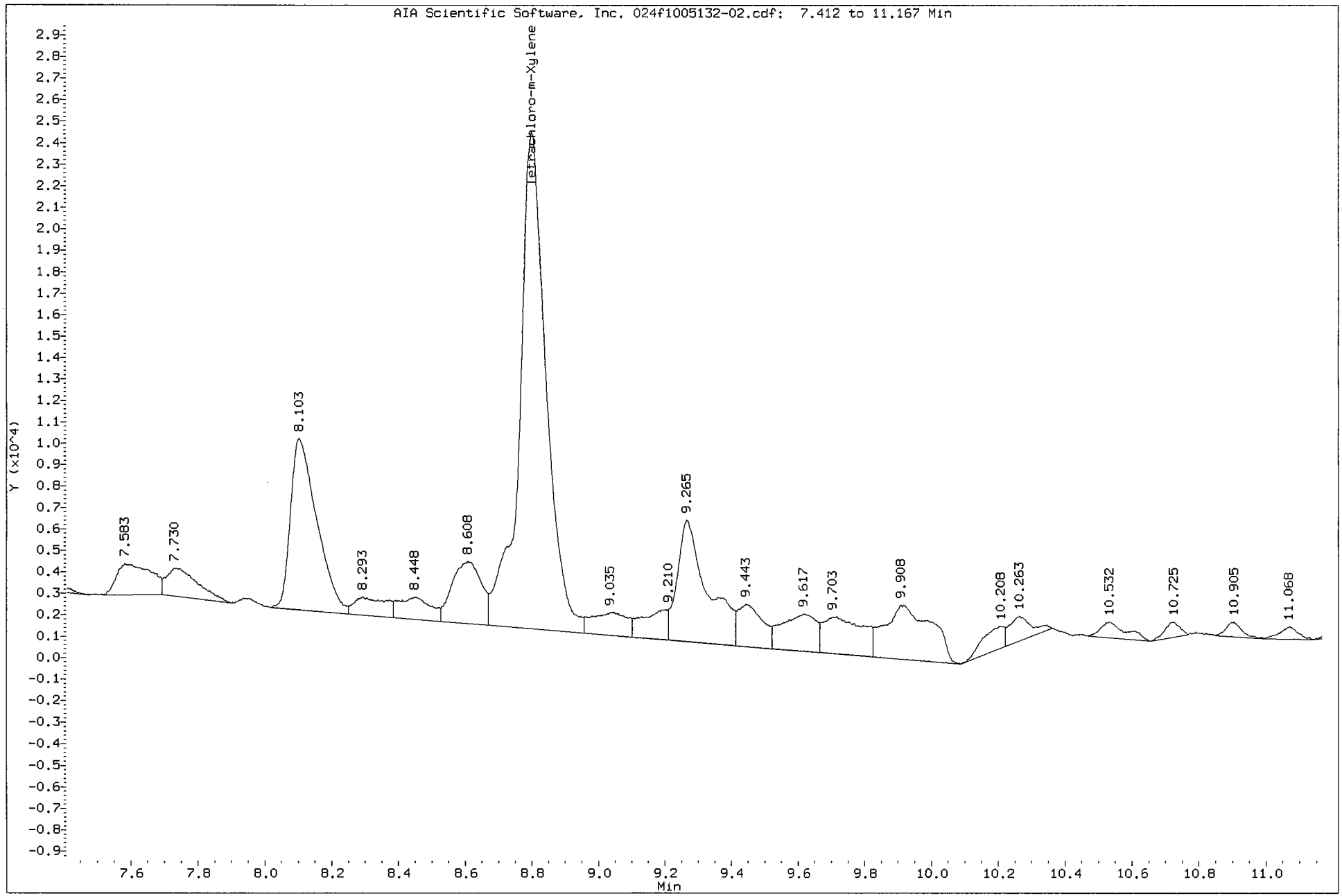
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.43		5160								
16.58		436								
16.65		1625								
17.02		377								
17.08		419								
17.34		4129								
17.55		1346								
17.78		461								
17.91		8900								
18.19		2189								
18.91		1461								
19.02		564								
19.08		804								
19.22		788								
19.41		875								
19.92		1075								
20.11		729								
20.29		494								
20.36		2781								
20.86		2604								
21.16		826								
21.36		2258								
21.86	21.79 21.93	242431	1622138	Decachlorobiphenyl	0.149451	28.96335		124.5	55 - 130	
22.59		3298								
23.14		1636								
23.54		345								
23.88		14261								
24.46		3199								

Manually Integrated Peaks



Start: 8.73 Stop: 8.97

Data File: /chem/tracegc82.i/f100601a.b/024f1005132-02.d/024f1005132-02.cdf
Injection Date: 02-JUN-2010 02:59
Instrument: tracegc82.i
Client Sample ID: SB78-3.5-4.5



Data File: /chem/tracegc82.i/f100601a_2C.b/024f1005132-02.d

Page 1

Date : 02-JUN-2010 02:59

Client ID: SB78-3.5-4.5

Instrument: tracegc82.i

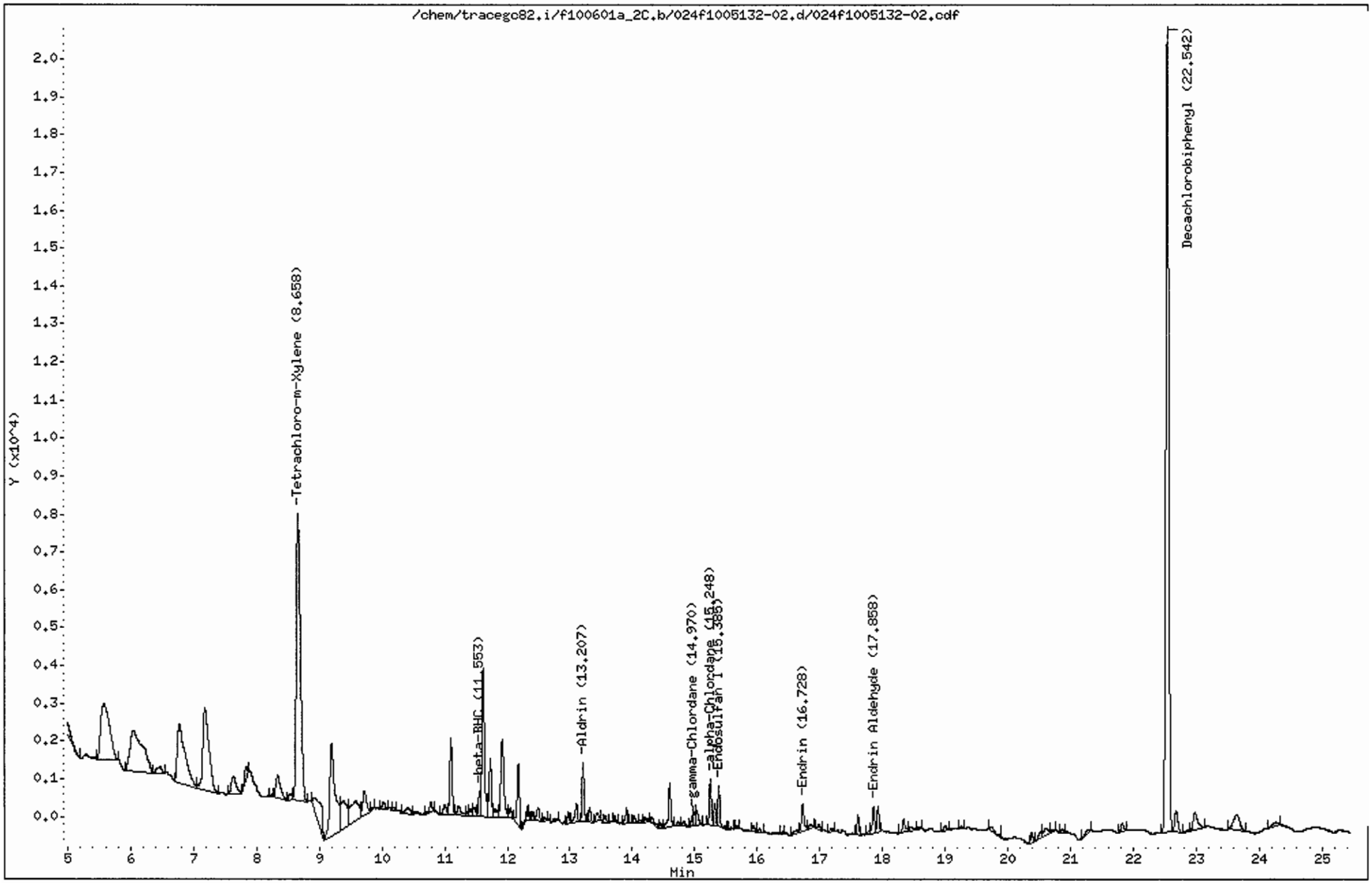
Sample Info: 1005132-02

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-02 Client Smp Id : SB78-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:59 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB78-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.35		362								
2.08		75321								
3.15		27425								
3.52		100571								
4.69		1388								
4.83		21069								
5.58		14392								
6.04		15276								
6.47		1060								
6.77		13490								
7.17		14927								
7.63		2478								
7.84		1003								
8.24		135								
8.34		3217								
8.54		652								
8.66	8.59 8.73	34798	548876	Tetrachloro-m-Xylene	0.063397	12.28621		105.7	70 - 125	
8.92		4830								
9.19		14843								
9.38		5338								
9.58		5114								
9.72		2674								
9.85		190								
10.02		566								
10.18		189								
10.40		888								
10.78		824								
11.00		864								
11.10		5290								
11.22		1078								
11.37		195								
11.41		511								
11.47		711								
11.55	11.50 11.64	1348	347428	beta-BHC	0.003880	0.751928	0.989535			J
11.61		11271								
11.73		4028								
11.80		843								

KCH 6/2/10

CompuChem

Lab Smp Id : 1005132-02 Client Smp Id : SB78-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:59 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB78-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.92		7288								
12.05		769								
12.18		4093								
12.28		141								
12.33		754								
12.39		458								
12.49		999								
12.59		214								
12.74		270								
12.98		726								
13.10		1382								
13.21	13.10 13.24	3437	726628	Aldrin	0.004729	0.916414	1.976744			J
13.31		889								
13.43		723								
13.56		444								
13.71		340								
13.91		867								
14.03		454								
14.13		194								
14.20		397								
14.31		720								
14.45		291								
14.60		3082								
14.73		283								
14.83		363								
14.97		610								
15.00		759								
15.03		1243								
15.25	15.21 15.35	2671	595455	alpha-Chlordane	0.004484	0.868986	1.976744			J
15.32		1297								
15.38	15.33 15.47	2448	638725	Endosulfan I	0.003833	0.742759	1.976744			J
15.59		149								
15.68		149								
15.93		442								
16.04		280								
16.41		138								
16.61		368								

CompuChem

Lab Smp Id : 1005132-02 Client Smp Id : SB78-3.5-4.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:59 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB78-3.5-4.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 14(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.73	16.60 16.74	1931	524785	Endrin	0.003678	0.712732	3.837209			J
16.85		292								
16.99		323								
17.18		258								
17.61		1088								
17.79		138								
17.86	17.81 17.95	1686	425754	Endrin Aldehyde	0.003958	0.766994	3.837209			J
17.93		1507								
18.34		1057								
18.45		454								
18.57		220								
19.00		456								
19.26		168								
19.73		544								
20.39		654								
20.52		621								
20.60		1005								
20.73		130								
20.87		238								
21.31		372								
21.82		670								
22.54	22.47 22.61	67342	497254	Decachlorobiphenyl	0.135428	26.24567		112.9	55 - 130	
22.68		2027								
22.85		163								
22.98		2391								
23.64		2989								
24.27		558								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB79-11-12

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

Data File: /chem/tracegc82.i/f100601b.b/032f1005132-06.d

Date : 02-JUN-2010 06:51

Client ID: SB79-11-12

Instrument: tracegc82.i

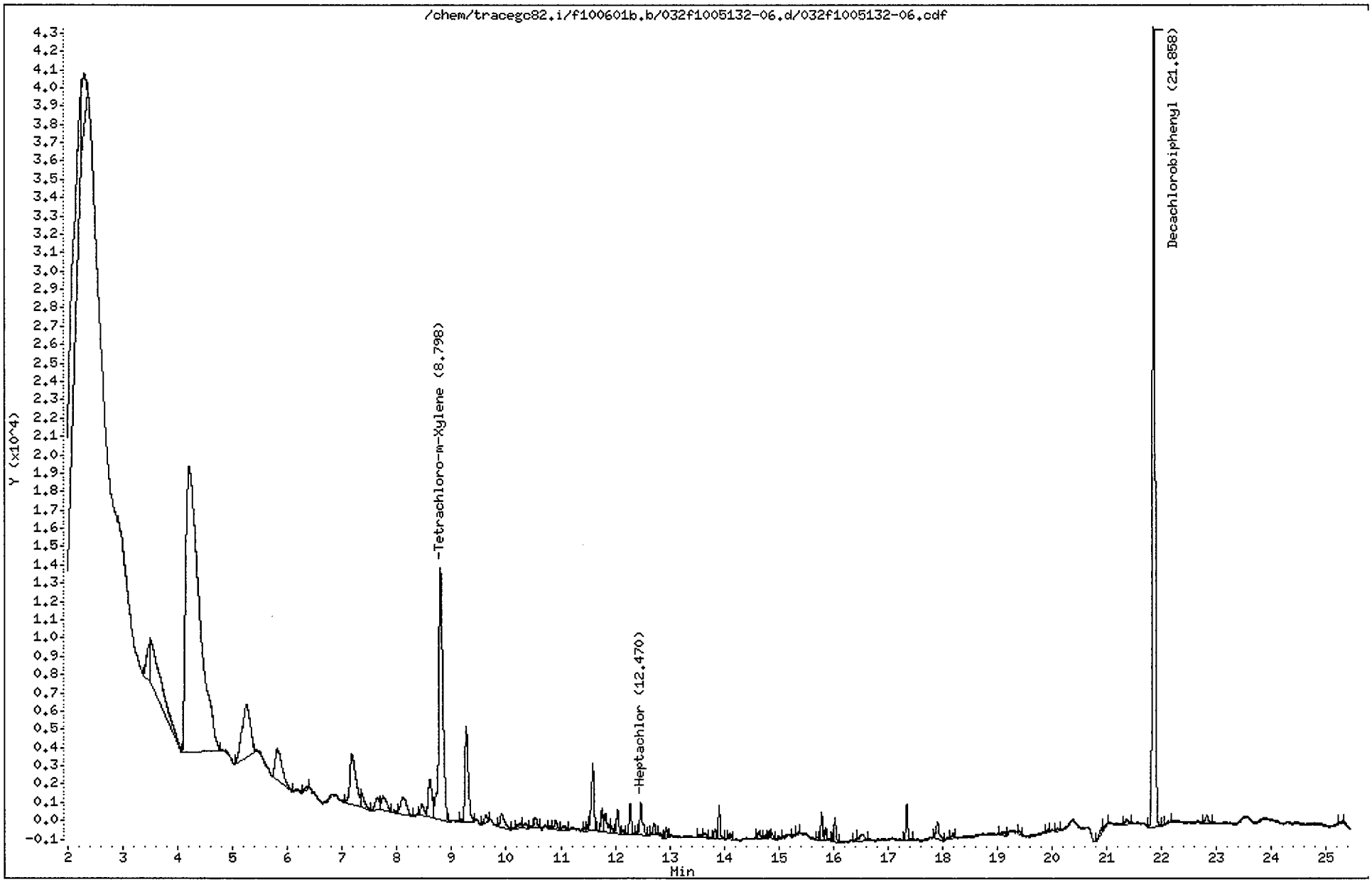
Sample Info: 1005132-06

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-06 Client Smp Id : SB79-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:51 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SB79-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49		84283								
1.91		11844								
2.25		76145								
2.30		15162								
3.48		7075								
3.52		38111								
4.21		270250								
5.26		30985								
5.82		15909								
6.35		895								
7.18		21059								
7.36		3617								
7.63		4027								
7.74		5528								
7.95		532								
8.11		7495								
8.46		2949								
8.60		10524								
8.80	8.73 8.87	71778	1587700	Tetrachloro-m-Xylene	0.045209	9.078074		75.3	70 - 125	
9.27		22002								
9.63		1243								
9.91		4234								
10.23		1323								
10.34		1067								
10.54		1775								
10.80		354								
10.90		1908								
11.05		1095								
11.44		574								
11.52		781								
11.59		11990								
11.76		3239								
11.82		3907								
11.93		825								
12.04		3715								
12.14		668								
12.28		4720								

6/2/10

CompuChem

Lab Smp Id : 1005132-06 Client Smp Id : SB79-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:51 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SB79-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.41		293								
12.47	12.38 12.52	5885	2589888	Heptachlor	0.002272	0.456285	2.048193			J
12.71		1850								
12.83		532								
12.94		1313								
13.54		587								
13.66		1025								
13.83		1268								
13.91		4147								
14.10		1106								
14.65		1565								
14.75		425								
14.82		708								
14.88		667								
14.99		551								
15.28		342								
15.34		311								
15.70		316								
15.78		3570								
15.86		1719								
16.03		3022								
16.43		463								
16.52		2230								
17.34		4601								
17.91		4051								
18.18		648								
19.08		956								
19.40		325								
19.93		404								
20.10		470								
20.92		1186								
21.02		667								
21.37		1056								
21.86	21.79 21.93	141291	1622138	Decachlorobiphenyl	0.087101	17.49018		72.6	55 - 130	
22.11		367								
22.82		1505								
25.26		358								

Data File: /chem/tracegc82.i/f100601b_2C.b/032f1005132-06.d

Date : 02-JUN-2010 06:51

Client ID: SB79-11-12

Instrument: tracegc82.i

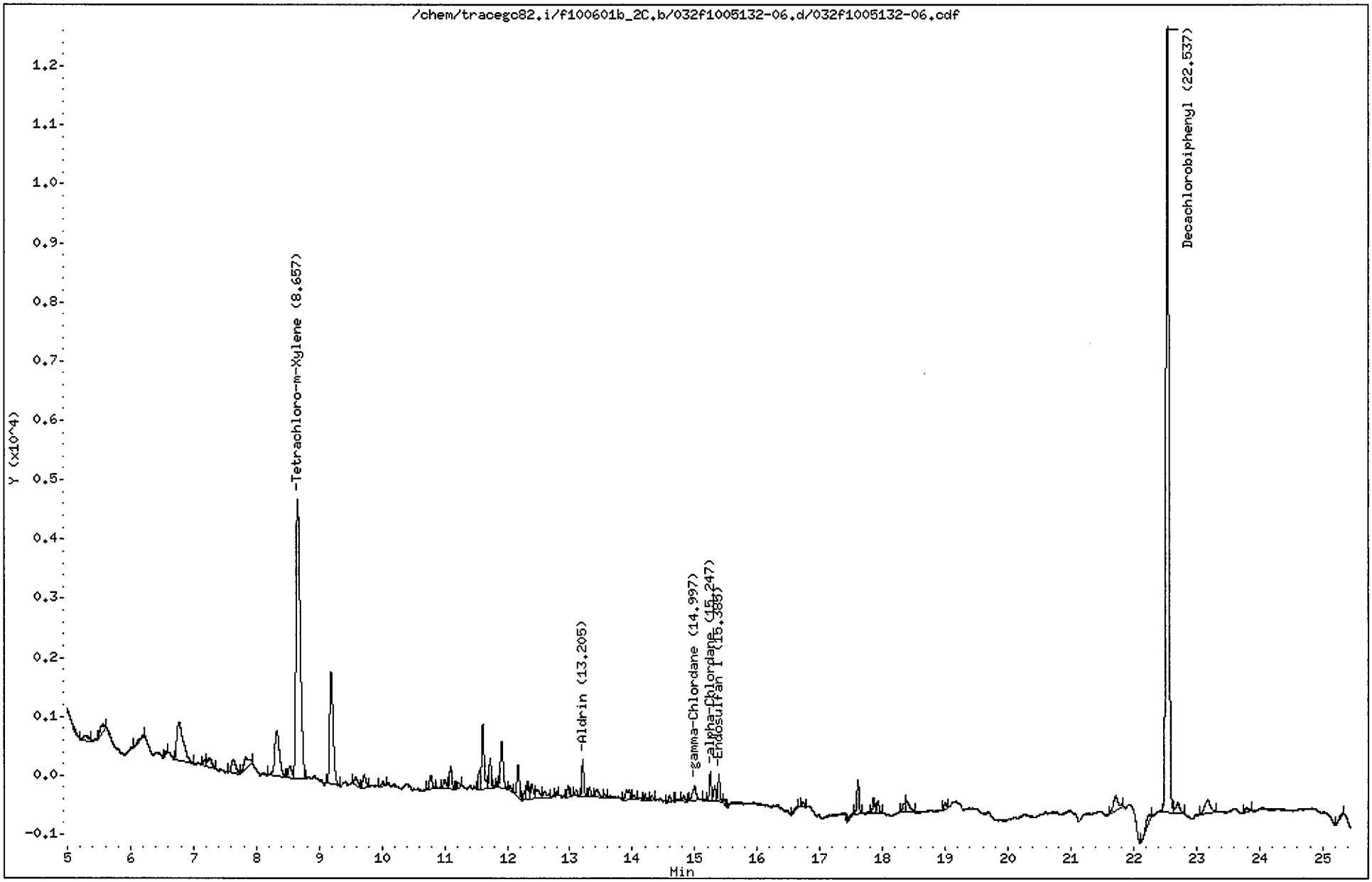
Sample Info: 1005132-06

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-06 Client Smp Id : SB79-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:51 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB79-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			212								
1.50			60961								
1.64			52605								
2.08			705615								
3.15			40650								
3.52			102165								
4.68			1621								
4.80			8963								
5.28			419								
5.56			587								
6.20			241								
6.57			150								
6.77			4790								
7.17			288								
7.25			720								
7.63			1127								
7.83			1020								
8.33			4051								
8.54			719								
8.66	8.59	8.73	21744	548876	Tetrachloro-m-Xylene	0.039614	7.954555		66.0*	70 - 125	R
9.19			7309								
9.59			509								
9.72			721								
10.01			215								
10.78			685								
11.00			499								
11.10			991								
11.22			207								
11.55			663								
11.61			3004								
11.73			1184								
11.85			159								
11.91			2473								
12.05			216								
12.17			1451								
12.28			273								
12.32			762								

CompuChem

Lab Smp Id : 1005132-06 Client Smp Id : SB79-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:51 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB79-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.39		718								
12.49		623								
12.60		460								
12.79		164								
12.97		421								
13.11		288								
13.20	13.10 13.24	1385	726628	Aldrin	0.001905	0.382468	2.048193			J
13.31		419								
13.43		540								
13.56		145								
13.91		814								
14.03		195								
14.20		291								
14.32		209								
14.60		312								
14.74		156								
14.82		298								
15.00	14.88 15.02	1079	690205	gamma-Chlordane	0.001563	0.313916	2.048193			J
15.25	15.21 15.35	1083	595455	alpha-Chlordane	0.001817	0.364879	2.048193			J
15.32		555								
15.38	15.33 15.47	961	638725	Endosulfan I	0.001505	0.302120	2.048193			J
15.48		164								
16.64		137								
16.73		222								
17.52		243								
17.61		1307								
17.86		575								
17.93		488								
18.34		361								
18.39		855								
19.00		268								
21.72		1393								
22.25		810								
22.54	22.47 22.61	42897	497254	Decachlorobiphenyl	0.086266	17.32243		71.9	55 - 130	
22.71		736								
23.18		1496								
23.80		287								

CompuChem

Lab Smp Id : 1005132-06 Client Smp Id : SB79-11-12
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:51 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB79-11-12

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
25.32		300								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB81-5-6

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 7 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	3.5	U
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	89	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	1.8	U

Data File: /chem/tracegc82.i/f100601d.b/059f1005132-16.d

Page 1

Date : 02-JUN-2010 19:58

Client ID: SB81-5-6

Instrument: tracegc82.i

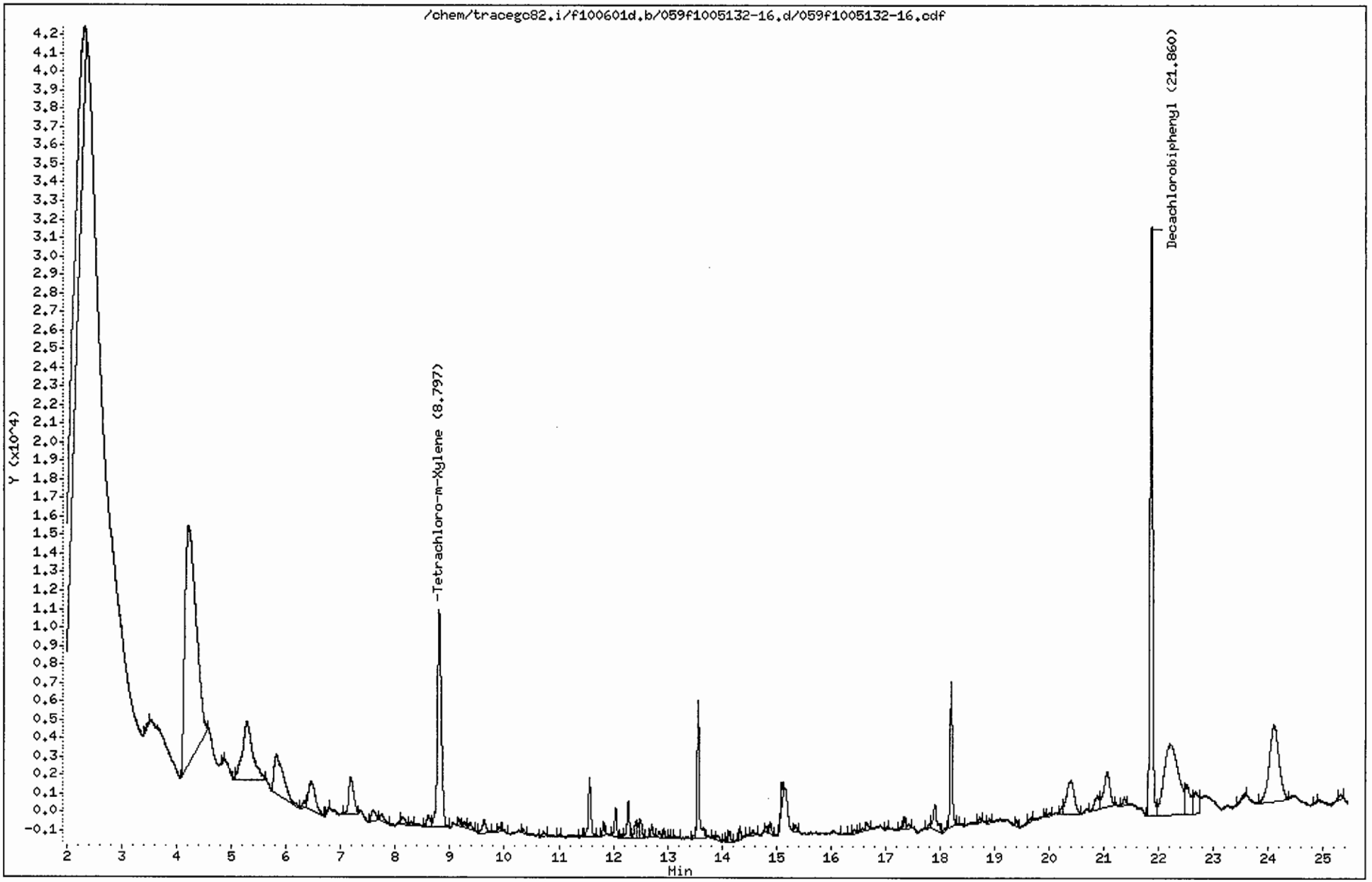
Sample Info: 1005132-16

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-16 Client Smp Id : SB81-5-6
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:58 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SB81-5-6

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			151625								
2.30			95649								
3.49			713								
4.21			180518								
4.85			602								
5.08			381								
5.29			41044								
5.82			25799								
6.32			1259								
6.46			13822								
6.78			571								
7.18			12633								
7.59			3131								
7.75			1789								
8.14			2204								
8.29			511								
8.60			2928								
8.80	8.73	8.87	59713	1587700	Tetrachloro-m-Xylene	0.037610	6.740101		62.7*	70 - 125	R
9.17			1087								
9.27			1215								
9.37			1499								
9.63			3347								
9.91			846								
9.99			426								
10.34			885								
10.72			1089								
11.01			303								
11.39			283								
11.56			10695								
11.82			1881								
12.04			4375								
12.13			419								
12.28			5951								
12.41			2584								
12.47			1754								
12.51			2643								
12.71			1843								

6/3/10

CompuChem

Lab Smp Id : 1005132-16 Client Smp Id : SB81-5-6
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:58 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SB81-5-6

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.85		991								
12.93		1099								
13.04		308								
13.14		591								
13.48		499								
13.56		20675								
13.86		383								
13.91		948								
14.10		416								
14.14		1560								
14.33		1615								
14.48		300								
14.56		979								
14.82		911								
14.88		1713								
15.10		2693								
15.35		921								
16.25		370								
16.42		665								
16.59		432								
16.66		1217								
17.03		375								
17.27		388								
17.35		1723								
17.42		722								
17.81		896								
17.91		7031								
18.09		499								
18.20		21222								
18.39		368								
18.73		676								
18.91		579								
19.40		923								
19.66		847								
19.93		367								
20.01		483								
20.23		904								

CompuChem

Lab Smp Id : 1005132-16 Client Smp Id : SB81-5-6
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:58 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SB81-5-6

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.38		18004								
20.87		4421								
21.06		14613								
21.37		1357								
21.86	21.79 21.93	105602	1622138	Decachlorobiphenyl	0.065100	11.66664		54.2*	55 - 130	R
22.21		70031								
22.52		11306								
22.68		8824								
23.56		1405								
24.11		51323								
24.88		312								
25.29		893								

Data File: /chem/tracegc82.i/f100601d_2C.b/059f1005132-16.d

Date : 02-JUN-2010 19:58

Client ID: SB81-5-6

Instrument: tracegc82.i

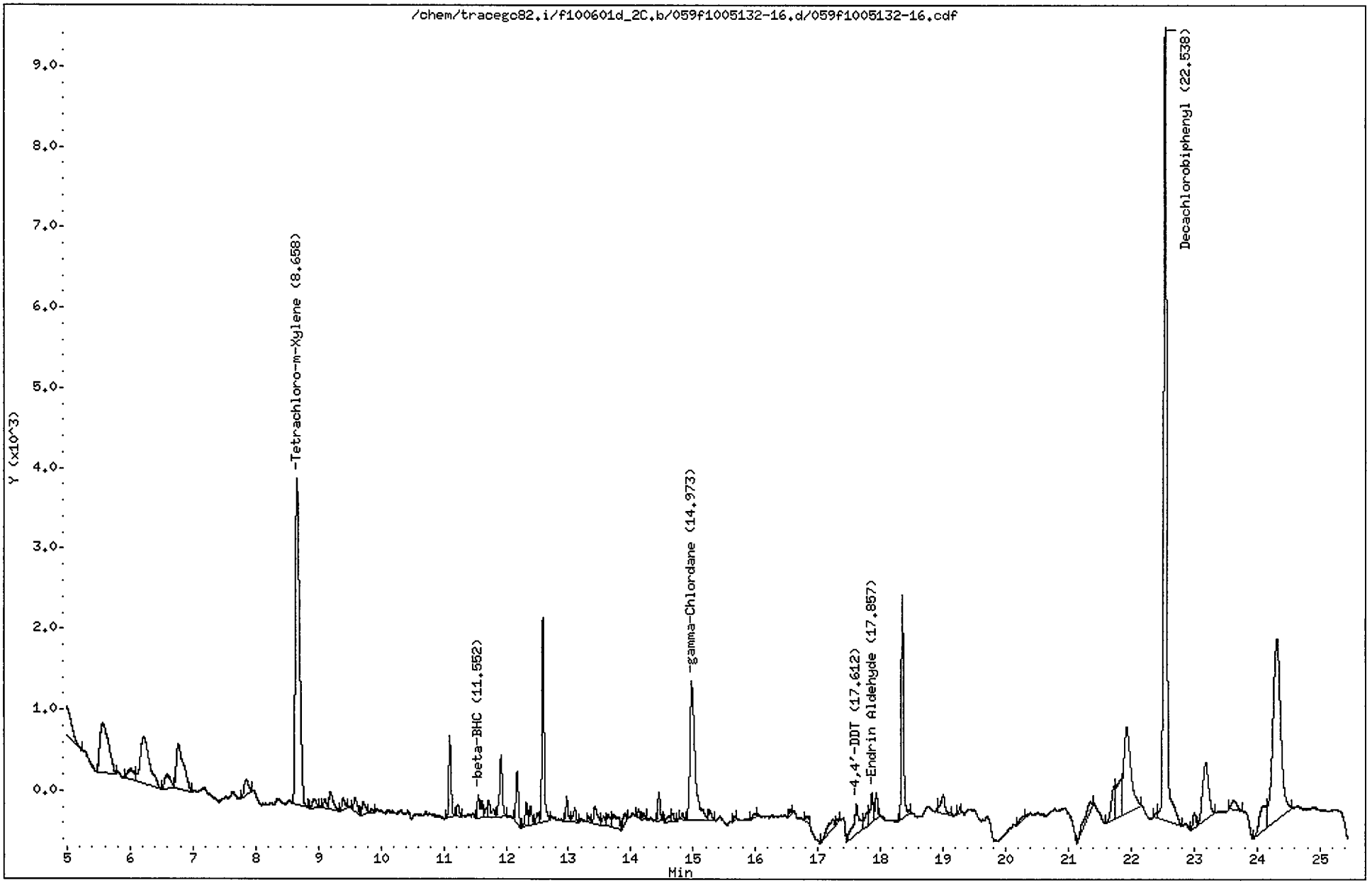
Sample Info: 1005132-16

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-16 Client Smp Id : SB81-5-6
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:58 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SB81-5-6

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.35			250								
1.50			144899								
2.07			566258								
3.17			8191								
3.52			48809								
4.69			1286								
4.84			11224								
5.57			5778								
5.99			990								
6.21			5946								
6.59			1150								
6.77			4436								
7.85			922								
8.66	8.59	8.73	18866	548876	Tetrachloro-m-Xylene	0.034370	6.159541		57.3*	70 - 125	R
8.93			475								
9.10			377								
9.20			1056								
9.39			572								
9.59			623								
9.72			613								
9.84			173								
11.10			2511								
11.22			428								
11.55	11.50	11.64	1163	347428	beta-BHC	0.003345	0.599388	0.915054			J
11.68			313								
11.73			812								
11.92			2473								
12.18			1810								
12.32			797								
12.39			619								
12.50			398								
12.59			5985								
12.97			723								
13.10			534								
13.32			198								
13.42			924								
13.55			376								

6/3/10

CompuChem

Lab Smp Id : 1005132-16 Client Smp Id : SB81-5-6
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:58 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SB81-5-6

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 7(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.63		572								
13.72		1163								
13.91		479								
14.13		203								
14.20		140								
14.45		815								
14.60		298								
14.67		274								
14.82		175								
14.97	14.88 15.02	9761	690205	gamma-Chlordane	0.014141	2.534180	1.827957			
15.26		450								
15.66		154								
15.98		180								
16.55		151								
16.81		310								
17.23		991								
17.30		159								
17.61	17.55 17.69	2493	503765	4,4'-DDT	0.004949	0.886870	3.548387			J
17.78		609								
17.86	17.81 17.95	1330	425754	Endrin Aldehyde	0.003124	0.559834	3.548387			J
17.93		842								
18.35		6805								
19.00		1064								
19.26		133								
20.27		161								
21.34		1421								
21.73		1662								
21.83		2508								
21.93		8612								
22.42		145								
22.54	22.47 22.61	34298	497254	Decachlorobiphenyl	0.068975	12.36106		57.5	55 - 130	
23.00		532								
23.18		4720								
23.63		720								
24.09		2255								
24.32		19576								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB83-6.5-7.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 15 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	3.9	U
50-29-3	4,4'-DDT	3.9	U
60-57-1	Dieldrin	3.9	U
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	98	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

FORM I PEST

Data File: /chem/tracegc82.i/f100601b.b/034f1005132-08.d

Page 1

Date : 02-JUN-2010 07:50

Client ID: SB83-6.5-7.5

Instrument: tracegc82.i

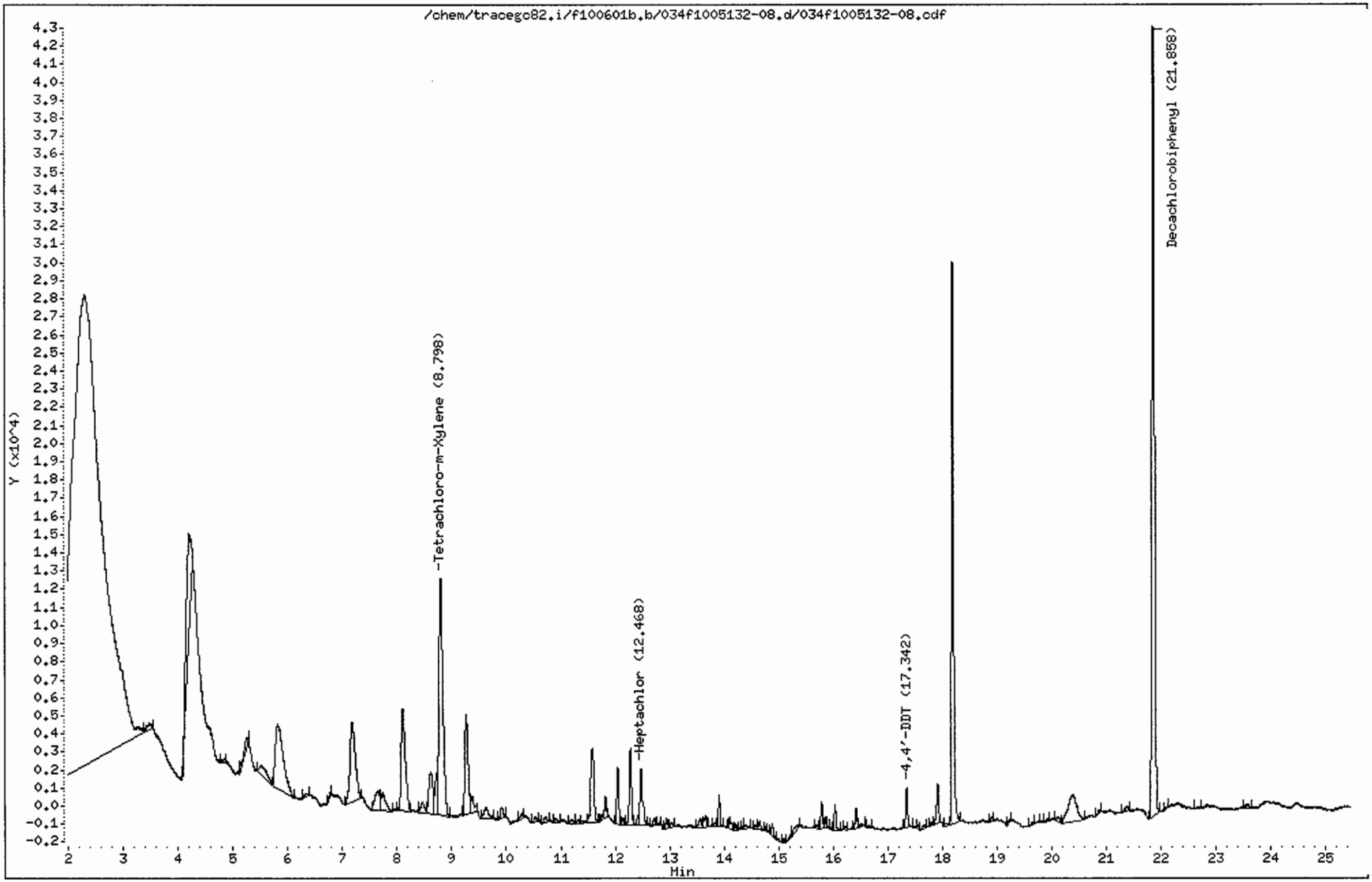
Sample Info: 1005132-08

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-08 Client Smp Id : SB83-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:50 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SB83-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 15(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			154813								
1.73			69329								
2.31			993054								
3.48			1851								
4.21			38351								
4.81			615								
5.26			2539								
5.52			5744								
5.82			36475								
6.33			679								
6.78			286								
7.18			29464								
7.64			6981								
7.74			5964								
8.11			29812								
8.46			2843								
8.61			11711								
8.72			7073								
8.80	8.73	8.87	65374	1587700	Tetrachloro-m-Xylene	0.041175	8.073464		68.6*	70 - 125	R
9.27			21935								
9.37			3811								
9.63			3293								
9.92			1799								
10.29			747								
10.53			1021								
10.72			1211								
10.90			907								
11.20			841								
11.31			640								
11.39			450								
11.58			17643								
11.75			694								
11.82			2751								
12.04			8089								
12.15			894								
12.28			11646								
12.41			1137								

6/2/10

CompuChem

Lab Smp Id : 1005132-08 Client Smp Id : SB83-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:50 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SB83-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 15(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.47	12.38 12.52	10643	2589888	Heptachlor	0.004109	0.805774	2.000000			J
12.72		1228								
12.78		395								
12.94		1348								
13.04		627								
13.56		1574								
13.66		2155								
13.83		524								
13.91		3741								
14.10		1987								
14.21		756								
14.35		364								
14.39		575								
14.56		559								
14.65		1390								
14.75		467								
14.88		1703								
15.09		390								
15.22		467								
15.34		1866								
15.70		337								
15.79		3364								
15.86		1549								
16.03		3374								
16.23		471								
16.42		2599								
16.52		483								
16.66		294								
17.34	17.27 17.41	5263	1722489	4,4'-DDT	0.003055	0.599110	3.882353			J
17.55		472								
17.66		554								
17.80		553								
17.91		6177								
18.07		598								
18.19		78581								
18.90		485								
19.24		396								

CompuChem

Lab Smp Id : 1005132-08 Client Smp Id : SB83-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:50 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SB83-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 15(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.64		346								
19.78		379								
19.93		343								
20.11		981								
20.37		16388								
20.88		362								
21.36		904								
21.86	21.79 21.93	140945	1622138	Decachlorobiphenyl	0.086888	17.03694		72.4	55 - 130	
22.12		285								
22.66		371								
23.57		1063								

Data File: /chem/tracegc82.i/f100601b_2C.b/034f1005132-08.d

Date : 02-JUN-2010 07:50

Client ID: SB83-6.5-7.5

Instrument: tracegc82.i

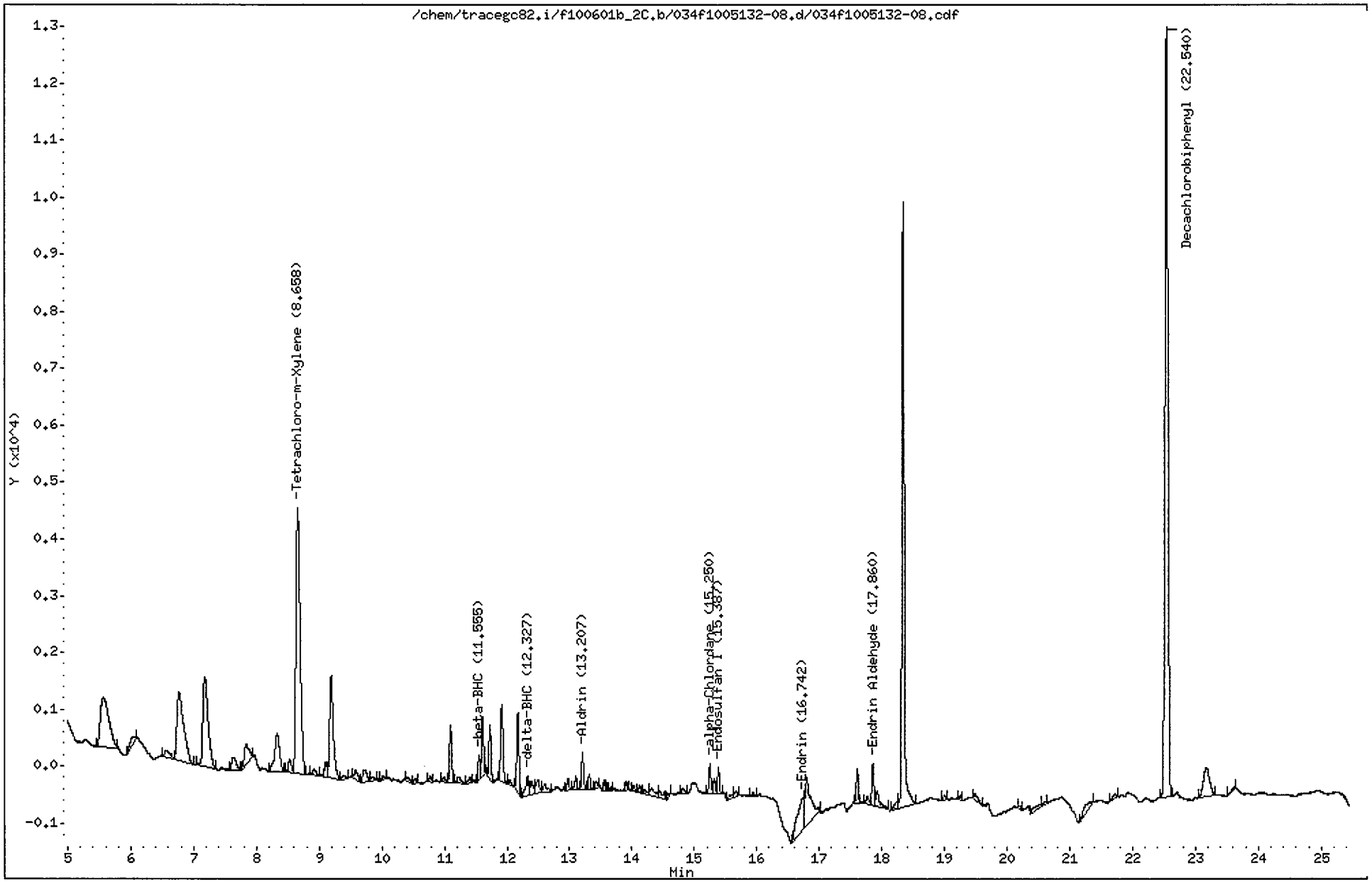
Sample Info: 1005132-08

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-08 Client Smp Id : SB83-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:50 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB83-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 15(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.35			227								
1.51			101534								
2.07			437510								
3.14			347								
3.52			63540								
4.70			136								
4.80			191								
5.57			8180								
6.03			774								
6.58			815								
6.77			9085								
7.18			9153								
7.64			1087								
7.83			1748								
8.33			3909								
8.53			821								
8.66	8.59	8.73	21559	548876	Tetrachloro-m-Xylene	0.039278	7.701657		65.5*	70 - 125	R
8.93			378								
9.10			708								
9.19			7289								
9.40			302								
9.59			634								
9.73			1002								
9.86			244								
10.03			188								
10.41			287								
10.53			227								
10.78			270								
11.00			266								
11.10			2479								
11.23			480								
11.40			281								
11.56	11.50	11.64	937	347428	beta-BHC	0.002694	0.528252	1.001176			J
11.61			2327								
11.73			2009								
11.92			3787								
12.05			260								

6/2/10

CompuChem

Lab Smp Id : 1005132-08 Client Smp Id : SB83-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:50 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB83-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 15(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.18		3426								
12.33	12.22 12.36	1130	827595	delta-BHC	0.001365	0.267726	2.000000			J
12.39		762								
12.49		940								
12.61		626								
12.98		484								
13.10		613								
13.21	13.10 13.24	1399	726628	Aldrin	0.001925	0.377516	2.000000			J
13.32		633								
13.42		347								
13.56		415								
13.65		137								
13.91		303								
14.03		265								
14.13		327								
14.20		330								
14.32		806								
14.45		517								
14.62		167								
14.82		284								
15.25	15.21 15.35	1146	595455	alpha-Chlordane	0.001923	0.377039	2.000000			J
15.32		592								
15.39	15.33 15.47	978	638725	Endosulfan I	0.001530	0.299923	2.000000			J
15.61		322								
15.66		357								
15.94		149								
16.74	16.60 16.74	4308	524785	Endrin	0.008207	1.609249	3.882353			J
16.80		5207								
17.61		1244								
17.77		353								
17.86	17.81 17.95	1796	425754	Endrin Aldehyde	0.004218	0.827137	3.882353			J
17.93		1052								
18.26		545								
18.34		26604								
19.00		190								
19.25		159								
19.49		407								

CompuChem

Lab Smp Id : 1005132-08 Client Smp Id : SB83-6.5-7.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:50 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SB83-6.5-7.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 15(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.20		126								
20.55		588								
20.60		180								
21.35		1012								
21.72		292								
22.54	22.47 22.61	43600	497254	Decachlorobiphenyl	0.087679	17.19205		73.1	55 - 130	
23.17		3493								
23.62		180								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB84-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 18 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.1	U
319-85-7	beta-BHC	2.1	U
319-84-6	alpha-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	0.47	J
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	4.0	U
959-98-8	Endosulfan I	2.1	U
33213-65-9	Endosulfan II	4.0	U
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	4.0	U
7421-93-4	Endrin Aldehyde	4.0	U
76-44-8	Heptachlor	2.1	U
1024-57-3	Heptachlor Epoxide	2.1	U
72-43-5	Methoxychlor	21	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.1	U
5103-71-9	alpha-Chlordane	2.1	U

Data File: /chem/tracegc82.i/f100601c.b/044f1005132-14.d

Date : 02-JUN-2010 12:41

Client ID: SB84-6-7

Instrument: tracegc82.i

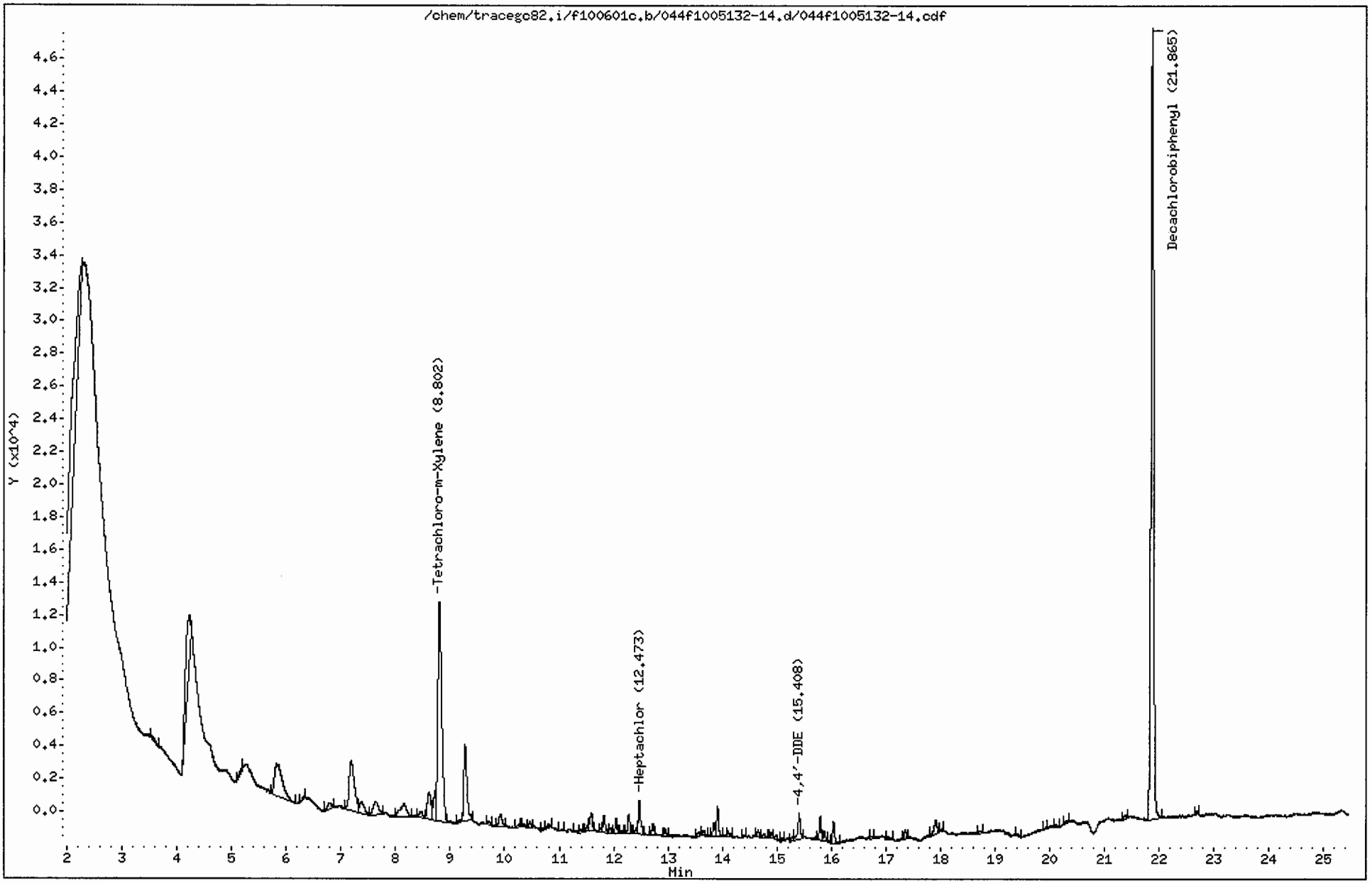
Sample Info: 1005132-14

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-14 Client Smp Id : SB84-6-7
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:41 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : SB84-6-7

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.50		83174								
1.87		6286								
2.26		43225								
3.52		1097								
4.21		23090								
5.19		737								
5.83		19966								
6.32		469								
6.80		1771								
7.19		20589								
7.37		4415								
7.64		5409								
8.16		6667								
8.46		1742								
8.62		7876								
8.72		5180								
8.80	8.73 8.87	66489	1587700	Tetrachloro-m-Xylene	0.041878	8.511702		69.8*	70 - 125	R
9.18		471								
9.27		19023								
9.69		796								
9.91		2924								
10.26		571								
10.35		931								
10.46		947								
10.71		320								
10.80		757								
11.04		339								
11.29		479								
11.39		437								
11.52		851								
11.59		3845								
11.77		557								
11.83		3019								
11.94		873								
12.05		2323								
12.15		484								
12.28		3304								

6/2/10

CompuChem

Lab Smp Id : 1005132-14 Client Smp Id : SB84-6-7
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:41 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : SB84-6-7

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.42		887								
12.47	12.38 12.52	6202	2589888	Heptachlor	0.002395	0.486727	2.073171			J
12.72		1729								
12.95		1223								
13.56		731								
13.65		1129								
13.85		2362								
13.92		5025								
14.10		958								
14.40		358								
14.66		1251								
14.76		730								
14.89		933								
14.99		802								
15.11		419								
15.29		542								
15.41	15.34 15.48	4830	2012896	4,4'-DDE	0.002399	0.487608	4.024390			J
15.79		3385								
15.87		1428								
16.04		3657								
16.74		530								
17.02		632								
17.35		1341								
17.91		2970								
18.00		421								
18.73		358								
19.41		325								
19.93		293								
20.11		489								
20.30		294								
21.37		503								
21.86	21.79 21.93	162335	1622138	Decachlorobiphenyl	0.100075	20.34038		83.4	55 - 130	
22.67		476								

Data File: /chem/tracegc82.i/f100601c_2C.b/044f1005132-14.d

Date : 02-JUN-2010 12:41

Client ID: SB84-6-7

Instrument: tracegc82.i

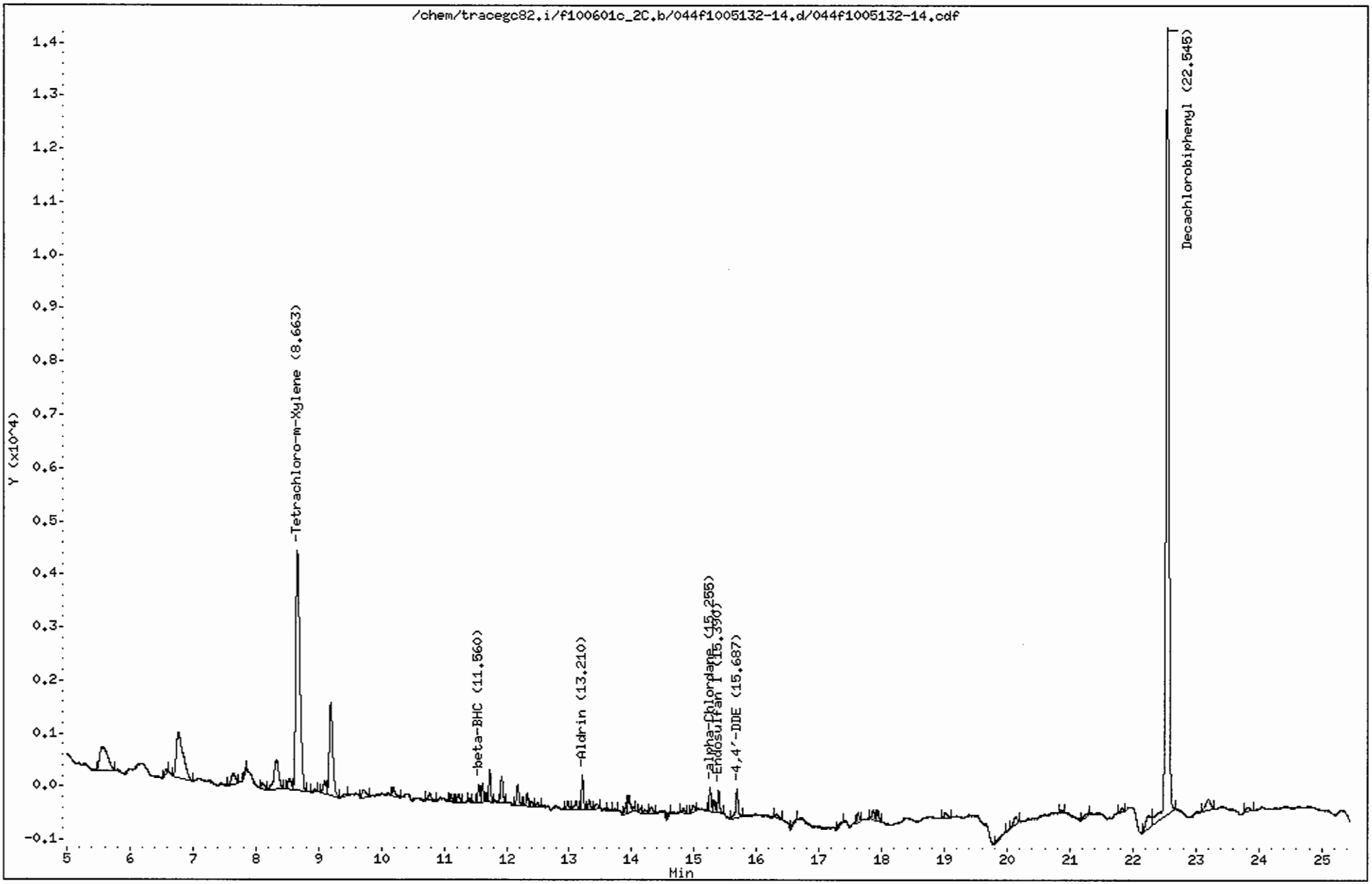
Sample Info: 1005132-14

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-14 Client Smp Id : SB84-6-7
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:41 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : SB84-6-7

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36		319								
1.52		38774								
1.64		15793								
1.78		5084								
2.06		11758								
2.07		2016								
3.53		36086								
4.46		172								
5.58		3880								
6.58		194								
6.77		6376								
7.65		892								
7.84		212								
8.10		363								
8.33		2992								
8.54		799								
8.66	8.59 8.73	20706	548876	Tetrachloro-m-Xylene	0.037724	7.667554		62.9*	70 - 125	R
8.94		147								
9.10		814								
9.20		6874								
9.44		220								
9.72		592								
10.20		603								
10.77		465								
11.11		339								
11.23		456								
11.42		150								
11.56	11.50 11.64	803	347428	beta-BHC	0.002308	0.469186	1.037805			J
11.61		777								
11.73		1325								
11.92		1307								
12.18		1026								
12.33		498								
12.40		235								
12.50		228								
12.97		391								
13.11		488								

6/2/10

CompuChem

Lab Smp Id : 1005132-14 Client Smp Id : SB84-6-7
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:41 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : SB84-6-7

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 18(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.21	13.10 13.24	1427	726628	Aldrin	0.001962	0.398880	2.073171			J
13.32		449								
13.44		316								
13.62		149								
13.72		121								
13.91		482								
13.96		972								
14.14		167								
14.21		199								
14.31		431								
14.62		136								
14.83		225								
14.98		399								
15.26	15.21 15.35	1032	595455	alpha-Chlordane	0.001733	0.352262	2.073171			J
15.33		541								
15.39	15.33 15.47	951	638725	Endosulfan I	0.001487	0.302304	2.073171			J
15.69	15.61 15.75	1416	617325	4,4'-DDE	0.002294	0.466213	4.024390			J
16.32		242								
16.64		204								
17.36		274								
17.62		396								
17.86		484								
17.94		476								
19.02		402								
19.97		189								
20.13		674								
20.88		136								
21.27		202								
21.83		221								
22.25		1315								
22.54	22.47 22.61	49990	497254	Decachlorobiphenyl	0.100530	20.43293		83.8	55 - 130	
23.20		1177								
23.84		357								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB85-1.5-2.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	0.56	JP
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	0.53	JP
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	4.0	U
72-55-9	4,4'-DDE	4.0	U
50-29-3	4,4'-DDT	4.0	U
60-57-1	Dieldrin	0.48	JP
959-98-8	Endosulfan I	0.51	JP
33213-65-9	Endosulfan II	0.47	J
1031-07-8	Endosulfan sulfate	4.0	U
72-20-8	Endrin	0.62	JP
7421-93-4	Endrin Aldehyde	0.47	JP
76-44-8	Heptachlor	0.39	J
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	4.0	U
5103-74-2	gamma-Chlordane	2.0	U
5103-71-9	alpha-Chlordane	2.0	U

Data File: /chem/tracegc82.i/f100601a.b/023f1005132-01.d

Date : 02-JUN-2010 02:29

Client ID: SB85-1.5-2.5

Instrument: tracegc82.i

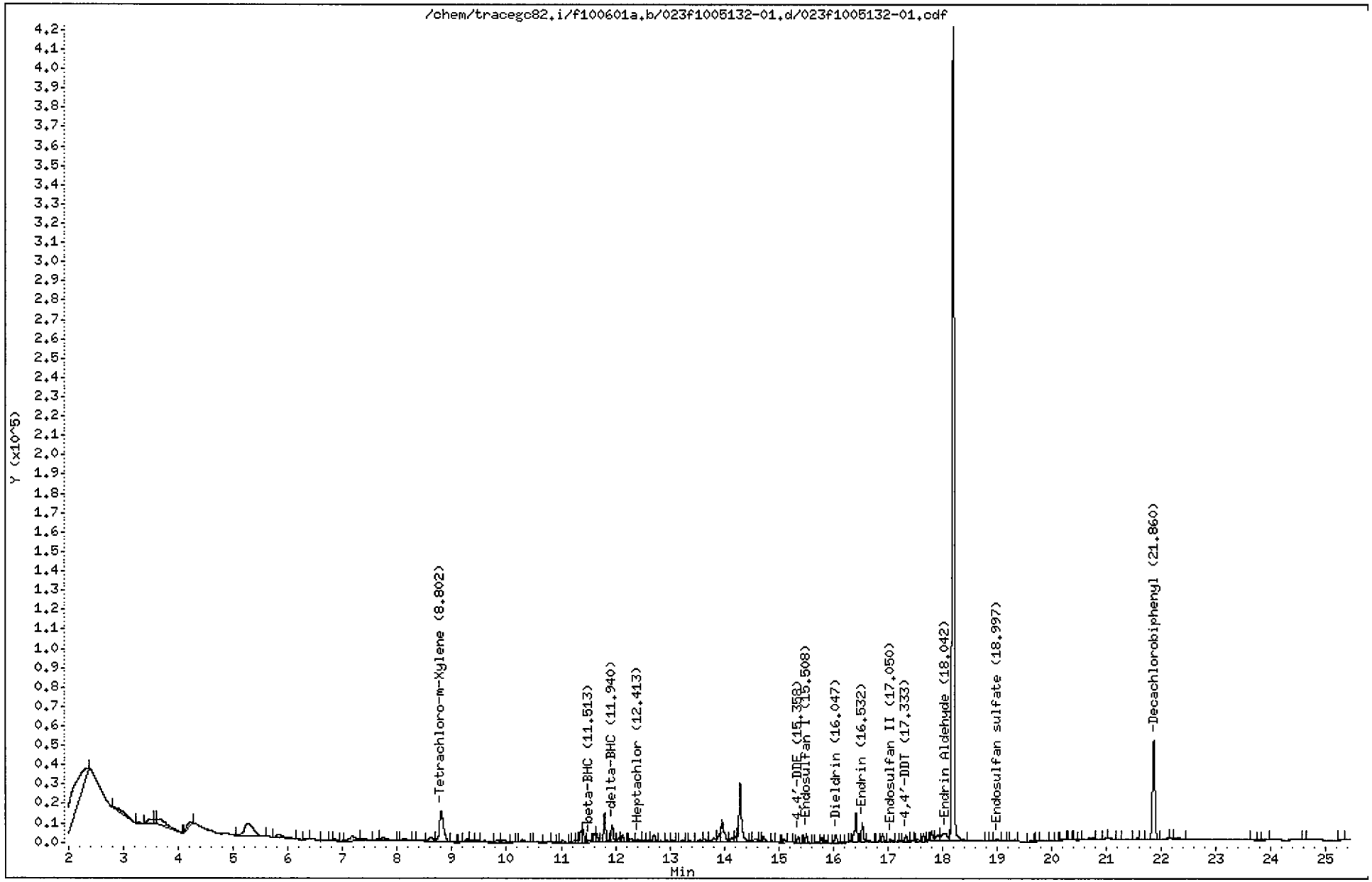
Sample Info: 1005132-01

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-01 Client Smp Id : SB85-1.5-2.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:29 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB85-1.5-2.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48			23505								
2.32			150569								
2.82			17322								
3.52			17810								
3.59			4841								
3.62			38643								
4.21			12761								
5.26			78313								
5.82			17209								
6.36			1107								
6.69			2535								
6.81			1203								
6.86			3266								
7.18			19749								
7.37			9358								
7.66			3043								
7.74			12059								
8.12			5058								
8.30			533								
8.63			10794								
8.80	8.73	8.87	81066	1587700	Tetrachloro-m-Xylene	0.051059	10.25277		85.1	70 - 125	
9.03			1754								
9.16			873								
9.27			5741								
9.36			4176								
9.46			3686								
9.61			6163								
9.82			6441								
9.95			9389								
10.13			1015								
10.29			6341								
10.55			1963								
10.72			1326								
10.95			395								
11.03			4277								
11.18			796								
11.24			2441								

CompuChem

Lab Smp Id : 1005132-01 Client Smp Id : SB85-1.5-2.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB85-1.5-2.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.29		3953								
11.37		15801								
11.40		18158								
11.51	11.41 11.55	2877	1035150	beta-BHC	0.002779	0.558094	1.025301			J
11.61		11929								
11.65		13035								
11.80		40442								
11.94	11.85 11.99	23930	2721052	delta-BHC	0.008794	1.765942	2.048193			J
12.06		5958								
12.13		9309								
12.28		6238								
12.41	12.38 12.52	5538	2589888	Heptachlor	0.002138	0.429303	2.048193			J
12.52		2252								
12.60		3105								
12.71		12148								
12.84		1679								
12.95		2443								
13.07		3086								
13.24		2072								
13.38		1306								
13.57		4721								
13.63		4672								
13.81		9594								
13.91		10253								
13.96		41883								
14.14		7614								
14.23		9241								
14.29		97955								
14.48		1657								
14.57		7941								
14.66		2463								
14.72		9621								
14.88		1100								
14.97		1341								
15.09		5087								
15.21		1192								
15.36	15.34 15.48	7971	2012896	4,4'-DDE	0.003959	0.795074	3.975904			J

CompuChem

Lab Smp Id : 1005132-01 Client Smp Id : SB85-1.5-2.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB85-1.5-2.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.51	15.45 15.59	11728	2067970	Endosulfan I	0.005671	1.138711	2.048193			J
15.71		1505								
15.79		6178								
15.86		2538								
16.05	15.99 16.13	11665	2037205	Dieldrin	0.005725	1.149697	3.975904			J
16.16		458								
16.25		1052								
16.30		1264								
16.42		45343								
16.53	16.51 16.65	25269	1695798	Endrin	0.014901	2.992159	3.975904			J
16.66		2445								
16.83		914								
16.91		11173								
17.05	17.01 17.15	4139	1759840	Endosulfan II	0.002351	0.472159	3.975904			J
17.24		570								
17.33	17.27 17.41	9142	1722489	4,4'-DDT	0.005307	1.065750	3.975904			J
17.42		968								
17.55		3144								
17.65		9077								
17.73		1790								
17.80		13908								
17.92		16527								
18.04	17.93 18.07	30456	1371845	Endrin Aldehyde	0.022200	4.457837	3.975904			
18.20		1186731								
18.80		413								
18.91		525								
19.00	18.89 19.03	3235	1574194	Endosulfan sulfate	0.002054	0.412527	3.975904			J
19.11		1451								
19.32		3090								
19.63		1541								
19.73		760								
20.00		889								
20.11		299								
20.24		439								
20.33		512								
20.43		419								
20.53		344								

CompuChem

Lab Smp Id : 1005132-01 Client Smp Id : SB85-1.5-2.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB85-1.5-2.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.72		5121								
20.98		792								
21.22		539								
21.55		711								
21.86	21.79 21.93	161349	1622138	Decachlorobiphenyl	0.099467	19.97326		82.9	55 - 130	
22.20		397								
22.27		3777								
23.69		1557								
23.89		2278								
24.61		517								
25.30		1115								

Data File: /chem/tracegc82.i/f100601a_2C.b/023f1005132-01.d

Date : 02-JUN-2010 02:29

Client ID: SB85-1.5-2.5

Instrument: tracegc82.i

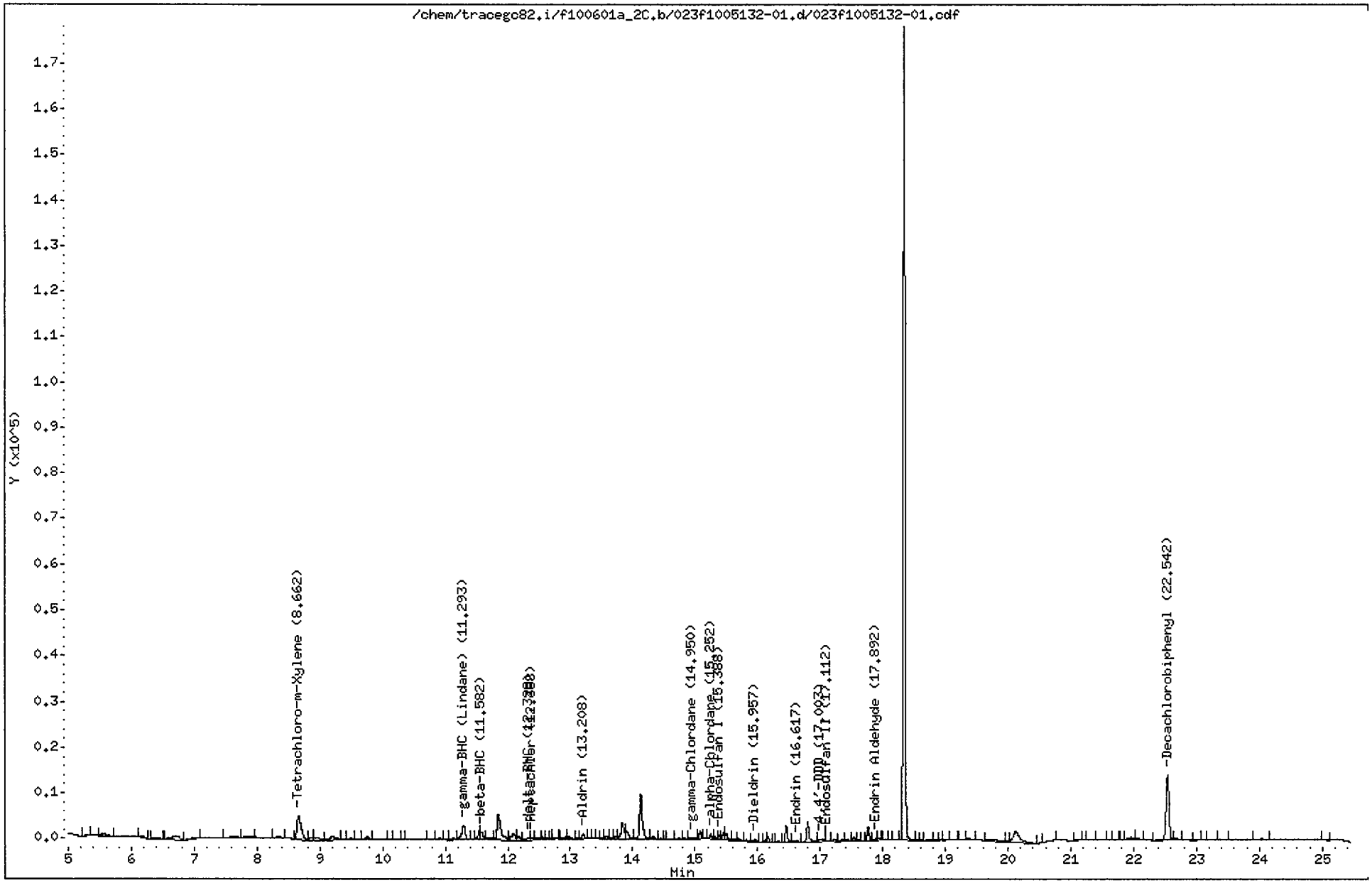
Sample Info: 1005132-01

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-01 Client Smp Id : SB85-1.5-2.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:29 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			330								
2.07			701260								
3.16			42050								
3.50			27297								
3.87			217								
4.37			556								
4.82			1220								
5.31			325								
5.55			3706								
6.16			1027								
6.41			2114								
6.73			8137								
7.04			1453								
7.63			2917								
7.84			1566								
8.33			1761								
8.66	8.59	8.73	25348	548876	Tetrachloro-m-Xylene	0.046182	9.273424		77.0	70 - 125	
8.86			1871								
8.94			3796								
9.19			5596								
9.37			909								
9.49			711								
9.76			1857								
10.11			178								
10.22			335								
10.33			157								
10.76			440								
10.91			942								
11.00			359								
11.12			946								
11.29	11.25	11.39	11764	866882	gamma-BHC (Lindane)	0.013570	2.724993	2.048193			
11.54			4438								
11.58	11.50	11.64	3889	347428	beta-BHC	0.011191	2.247153	1.025301			
11.69			2265								
11.85			24334								
12.09			6167								
12.18			2497								

6/2/10

CompuChem

Lab Smp Id : 1005132-01 Client Smp Id : SB85-1.5-2.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.33	12.22 12.36	2179	827595	delta-BHC	0.002633	0.528701	2.048193			J
12.39	12.33 12.47	1521	778205	Heptachlor	0.001953	0.392211	2.048193			J
12.47		1646								
12.56		1155								
12.63		237								
12.69		204								
12.74		486								
12.93		1468								
12.97		1287								
13.11		319								
13.21	13.10 13.24	2432	726628	Aldrin	0.003346	0.671806	2.048193			J
13.37		558								
13.53		301								
13.58		1388								
13.67		1100								
13.72		1342								
13.83		11287								
13.90		7083								
14.13		32003								
14.33		2188								
14.45		431								
14.60		718								
14.74		561								
14.83		467								
14.95	14.88 15.02	1535	690205	gamma-Chlordane	0.002224	0.446582	2.048193			J
15.08		3885								
15.25	15.21 15.35	2307	595455	alpha-Chlordane	0.003874	0.777982	2.048193			J
15.32		1040								
15.39	15.33 15.47	1622	638725	Endosulfan I	0.002539	0.509927	2.048193			J
15.46		3915								
15.50		3543								
15.61		834								
15.70		1186								
15.82		714								
15.96	15.94 16.08	1420	598394	Dieldrin	0.002371	0.476174	3.975904			J
16.12		1177								
16.17		2316								

CompuChem

Lab Smp Id : 1005132-01 Client Smp Id : SB85-1.5-2.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.25		143								
16.32		608								
16.46		8769								
16.62	16.60 16.74	1628	524785	Endrin	0.003100	0.622554	3.975904			J
16.80		12391								
17.00	16.87 17.01	2758	454222	4,4'-DDD	0.006070	1.218818	3.975904			J
17.11	17.07 17.21	1330	526756	Endosulfan II	0.002525	0.507005	3.975904			J
17.24		1588								
17.36		1054								
17.43		1210								
17.54		1805								
17.60		764								
17.77		6723								
17.89	17.81 17.95	990	425754	Endrin Aldehyde	0.002323	0.466454	3.975904			J
17.93		957								
18.05		193								
18.10		170								
18.20		352								
18.34		360454								
18.55		160								
18.77		499								
18.84		173								
19.01		589								
19.12		387								
19.29		344								
19.37		1166								
19.75		4275								
19.98		680								
20.12		18666								
20.53		235								
20.76		585								
21.12		346								
21.32		314								
21.49		485								
21.71		242								
21.82		151								
21.96		3144								

CompuChem

Lab Smp Id : 1005132-01 Client Smp Id : SB85-1.5-2.5
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 02:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.06		1198								
22.54	22.47 22.61	47765	497254	Decachlorobiphenyl	0.096057	19.28864		80.0	55 - 130	
22.68		1260								
23.00		553								
23.14		162								
23.40		515								
24.05		1371								
25.04		411								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB86-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 16 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	0.40	J
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	3.9	U
72-55-9	4,4'-DDE	0.54	J
50-29-3	4,4'-DDT	2.7	J
60-57-1	Dieldrin	1.3	J
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.9	U
1031-07-8	Endosulfan sulfate	3.9	U
72-20-8	Endrin	3.9	U
7421-93-4	Endrin Aldehyde	3.9	U
76-44-8	Heptachlor	2.0	U
1024-57-3	Heptachlor Epoxide	2.0	U
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	99	U
53494-70-5	Endrin Ketone	3.9	U
5103-74-2	gamma-Chlordane	0.38	JP
5103-71-9	alpha-Chlordane	0.38	JP

Data File: /chem/tracegc82.i/f100601c.b/042f1005132-12.d

Page 1

Date : 02-JUN-2010 11:43

Client ID: SB86-3-4

Instrument: tracegc82.i

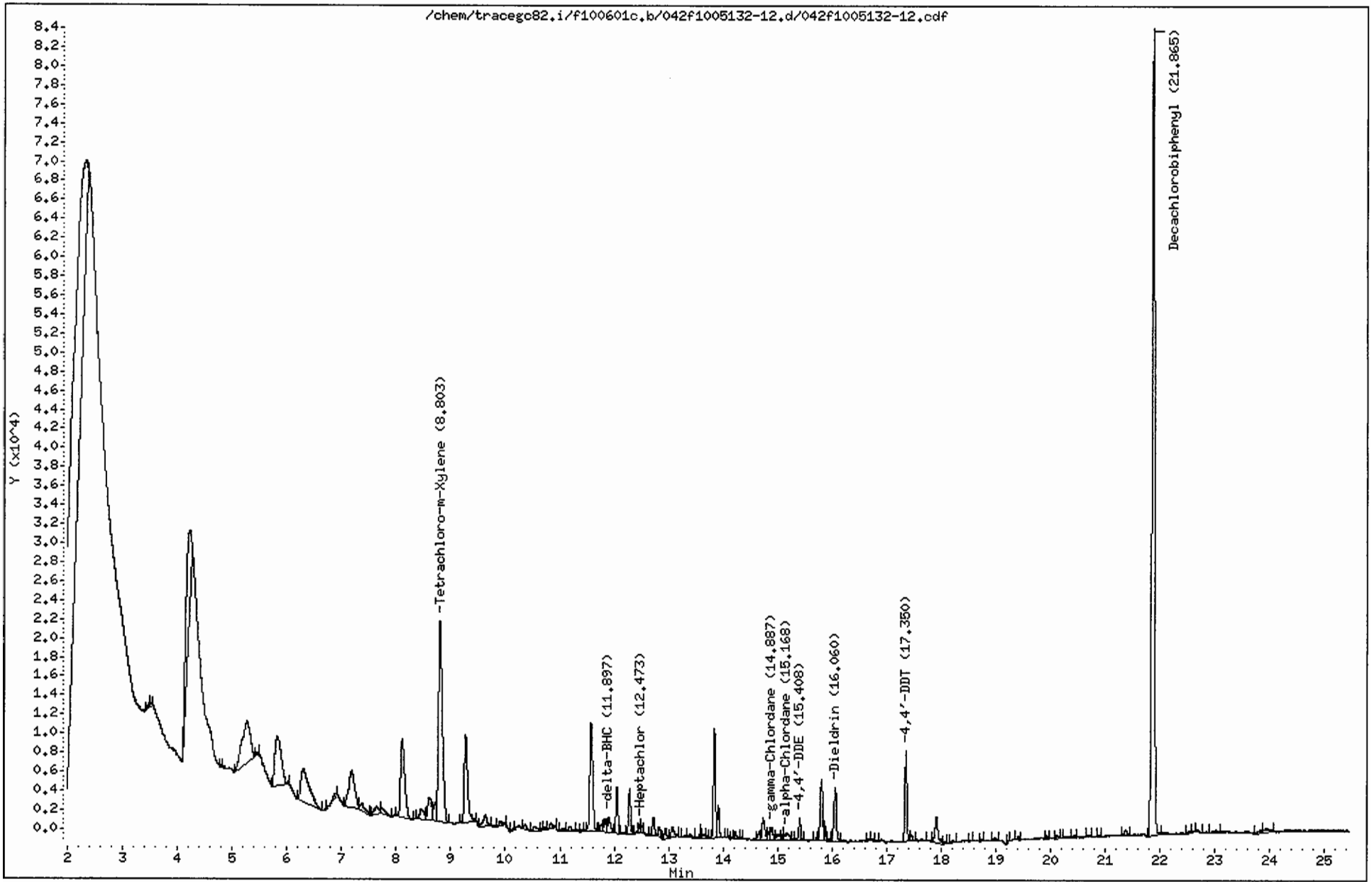
Sample Info: 1005132-12

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-12 Client Smp Id : SB86-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 11:43 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : SB86-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.38			433								
1.49			14006								
2.32			263493								
3.48			1400								
3.52			783								
4.23			69192								
4.79			348								
5.28			48293								
5.45			918								
5.82			42302								
6.30			37259								
6.89			2680								
7.19			29970								
7.37			4431								
7.63			4376								
7.75			3350								
7.96			523								
8.11			43107								
8.46			5795								
8.62			12076								
8.73			6557								
8.80	8.73	8.87	103581	1587700	Tetrachloro-m-Xylene	0.065239	12.94426		108.7	70 - 125	
9.27			39201								
9.63			5145								
9.92			2195								
10.14			407								
10.36			1812								
10.54			2563								
10.68			284								
10.73			842								
10.83			1992								
11.05			1254								
11.18			2146								
11.40			550								
11.57			42138								
11.76			2087								
11.83			3943								

6/2/10

CompuChem

Lab Smp Id : 1005132-12 Client Smp Id : SB86-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 11:43 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : SB86-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.90	11.85 11.99	5511	2721052	delta-BHC	0.002025	0.401849	2.023810			J
12.05		13062								
12.15		547								
12.28		12721								
12.41		494								
12.47	12.38 12.52	2315	2589888	Heptachlor	0.000894	0.177369	2.023810			JM
12.51		1457								
12.72		5588								
12.84		2513								
12.94		3215								
13.07		4587								
13.28		454								
13.39		1511								
13.57		700								
13.64		1155								
13.70		477								
13.84		28917								
13.91		8381								
14.10		455								
14.22		2271								
14.33		385								
14.65		2121								
14.73		7896								
14.82		2161								
14.89	14.84 14.98	4249	2245768	gamma-Chlordane	0.001892	0.375398	2.023810			J
14.99		2506								
15.10		1517								
15.17	15.15 15.29	3717	1924148	alpha-Chlordane	0.001931	0.383184	2.023810			J
15.41	15.34 15.48	5752	2012896	4,4'-DDE	0.002858	0.566979	3.928571			J
15.71		634								
15.80		20089								
15.87		3194								
15.94		709								
16.06	15.99 16.13	17757	2037205	Dieldrin	0.008716	1.729338	3.928571			J
16.66		624								
16.73		437								
16.82		289								

CompuChem

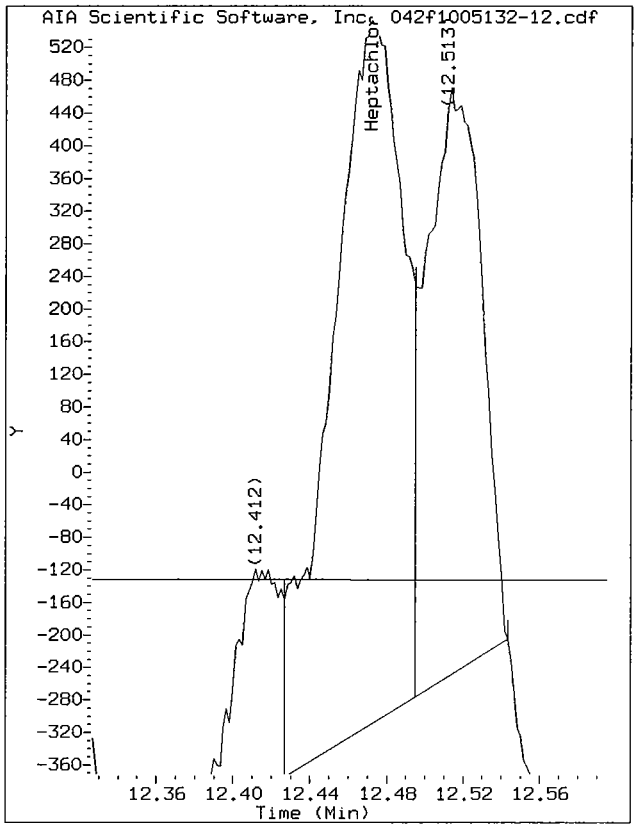
Lab Smp Id : 1005132-12 Client Smp Id : SB86-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 11:43 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : SB86-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

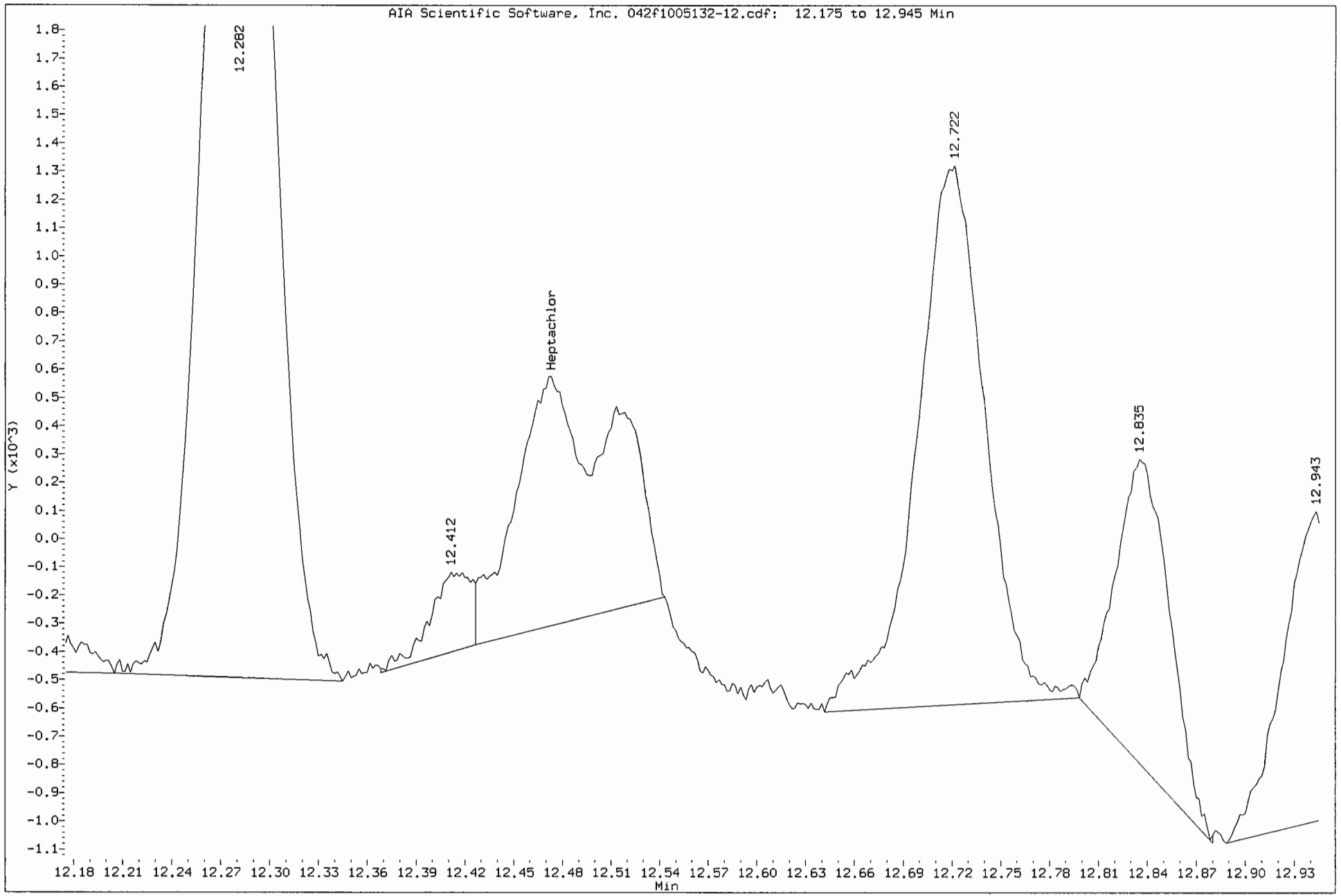
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.35	17.27 17.41	23121	1722489	4,4'-DDT	0.013422	2.663182	3.928571			J
17.45		1596								
17.78		628								
17.91		11192								
18.06		507								
18.21		821								
18.55		305								
18.73		408								
18.98		760								
19.24		349								
19.41		839								
19.93		754								
20.11		973								
20.29		855								
20.43		854								
20.68		372								
20.88		471								
21.37		1650								
21.86	21.79 21.93	275060	1622138	Decachlorobiphenyl	0.169566	33.64411		141.3*	55 - 130	R
22.51		557								
22.68		984								
23.02		1516								
23.84		1820								
23.93		2290								

Manually Integrated Peaks



Start: 12.43 Stop: 12.49

Data File: /chem/tracegc82.i/f100601c.b/042f1005132-12.d/042f1005132-12.cdf
Injection Date: 02-JUN-2010 11:43
Instrument: tracegc82.i
Client Sample ID: SB86-3-4



Data File: /chem/tracegc82.i/f100601c_2C.b/042f1005132-12.d

Date : 02-JUN-2010 11:43

Client ID: SB86-3-4

Instrument: tracegc82.i

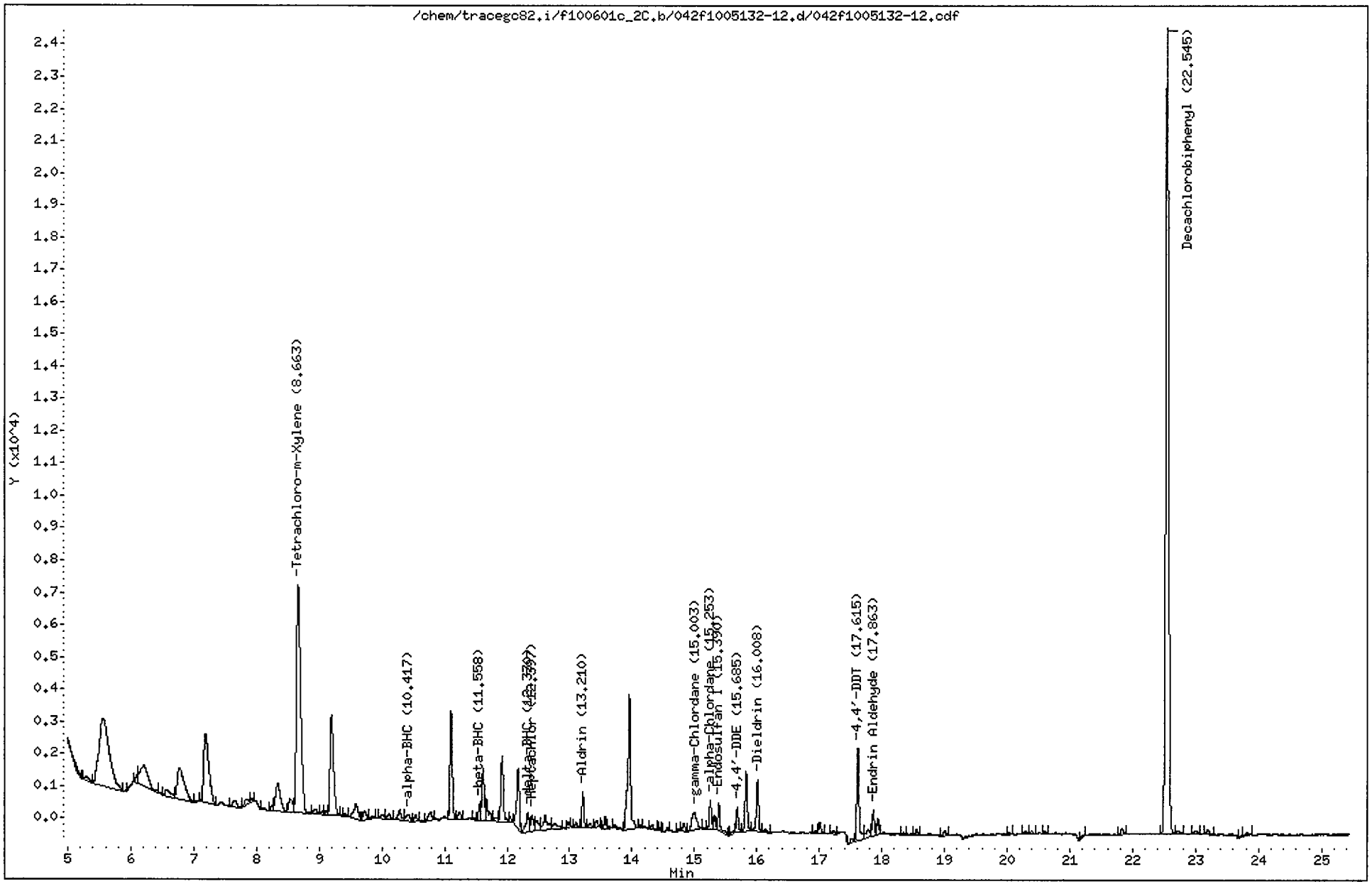
Sample Info: 1005132-12

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-12 Client Smp Id : SB86-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 11:43 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : SB86-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			338								
2.09			64652								
3.17			5059								
3.52			111179								
4.42			189								
4.52			592								
4.70			1656								
4.85			14256								
5.29			547								
5.56			24015								
6.04			199								
6.11			570								
6.21			5355								
6.57			1309								
6.77			7357								
7.19			12260								
7.64			966								
7.84			634								
7.91			257								
8.11			257								
8.25			468								
8.34			4900								
8.54			1712								
8.66	8.59	8.73	33228	548876	Tetrachloro-m-Xylene	0.060536	12.01120		100.9	70 - 125	
8.93			529								
9.05			225								
9.11			279								
9.20			12010								
9.41			232								
9.59			2191								
9.72			1037								
9.84			272								
10.01			379								
10.12			555								
10.28			1341								
10.42	10.32	10.46	1112	916452	alpha-BHC	0.001212	0.240532	2.023810			J
10.54			542								

6/2/10

CompuChem

Lab Smp Id : 1005132-12 Client Smp Id : SB86-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 11:43 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : SB86-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.78			992								
11.10			8500								
11.23			742								
11.48			168								
11.56	11.50	11.64	1037	347428	beta-BHC	0.002982	0.591650	1.013095			J
11.62			4106								
11.67			2114								
11.81			532								
11.92			5677								
12.05			358								
12.18			5631								
12.33	12.22	12.36	1935	827595	delta-BHC	0.002338	0.463909	2.023810			J
12.40	12.33	12.47	1472	778205	Heptachlor	0.001892	0.375304	2.023810			J
12.47			1314								
12.61			2024								
12.76			871								
12.98			378								
13.11			403								
13.21	13.10	13.24	2325	726628	Aldrin	0.003198	0.634591	2.023810			J
13.32			390								
13.43			601								
13.57			775								
13.63			172								
13.73			565								
13.95			13574								
14.14			239								
14.32			435								
14.45			169								
14.57			250								
14.75			197								
14.83			699								
15.00	14.88	15.02	3007	690205	gamma-Chlordane	0.004355	0.864132	2.023810			J
15.25	15.21	15.35	2101	595455	alpha-Chlordane	0.003527	0.699745	2.023810			J
15.32			990								
15.39	15.33	15.47	2251	638725	Endosulfan I	0.003524	0.699248	2.023810			J
15.63			138								
15.68	15.61	15.75	1682	617325	4,4'-DDE	0.002725	0.540607	3.928571			J

CompuChem

Lab Smp Id : 1005132-12 Client Smp Id : SB86-3-4
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 11:43 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : SB86-3-4

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 16(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.83		4596								
16.01	15.94 16.08	3988	598394	Dieldrin	0.006665	1.322323	3.928571			J
16.13		327								
16.95		255								
17.00		874								
17.22		289								
17.52		337								
17.62	17.55 17.69	7408	503765	4,4'-DDT	0.014705	2.917712	3.928571			J
17.78		1096								
17.86	17.81 17.95	2110	425754	Endrin Aldehyde	0.004956	0.983317	3.928571			J
17.94		1139								
18.35		159								
18.55		400								
19.00		455								
20.02		166								
20.29		214								
20.39		226								
20.61		225								
21.23		152								
21.83		536								
22.54	22.47 22.61	79729	497254	Decachlorobiphenyl	0.160336	31.81278		133.6*	55 - 130	R
22.72		429								
23.00		392								
23.20		469								
23.74		124								
23.83		504								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS62-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 69 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.2	JP
319-85-7	beta-BHC	3.2	JP
319-84-6	alpha-BHC	5.5	U
319-86-8	delta-BHC	4.5	J
58-89-9	gamma-BHC (Lindane)	5.5	U
72-54-8	4,4'-DDD	11	U
72-55-9	4,4'-DDE	11	U
50-29-3	4,4'-DDT	11	U
60-57-1	Dieldrin	18	P
959-98-8	Endosulfan I	1.9	JP
33213-65-9	Endosulfan II	11	U
1031-07-8	Endosulfan sulfate	16	P
72-20-8	Endrin	1.9	JP
7421-93-4	Endrin Aldehyde	2.9	JP
76-44-8	Heptachlor	5.1	JP
1024-57-3	Heptachlor Epoxide	2.3	JP
72-43-5	Methoxychlor	55	U
8001-35-2	Toxaphene	270	U
53494-70-5	Endrin Ketone	11	U
5103-74-2	gamma-Chlordane	5.5	U
5103-71-9	alpha-Chlordane	1.7	JP

FORM I PEST

Data File: /chem/tracegc82.i/f100601b.b/035f1005132-09.d

Page 1

Date : 02-JUN-2010 08:19

Client ID: SS62-0-1

Instrument: tracegc82.i

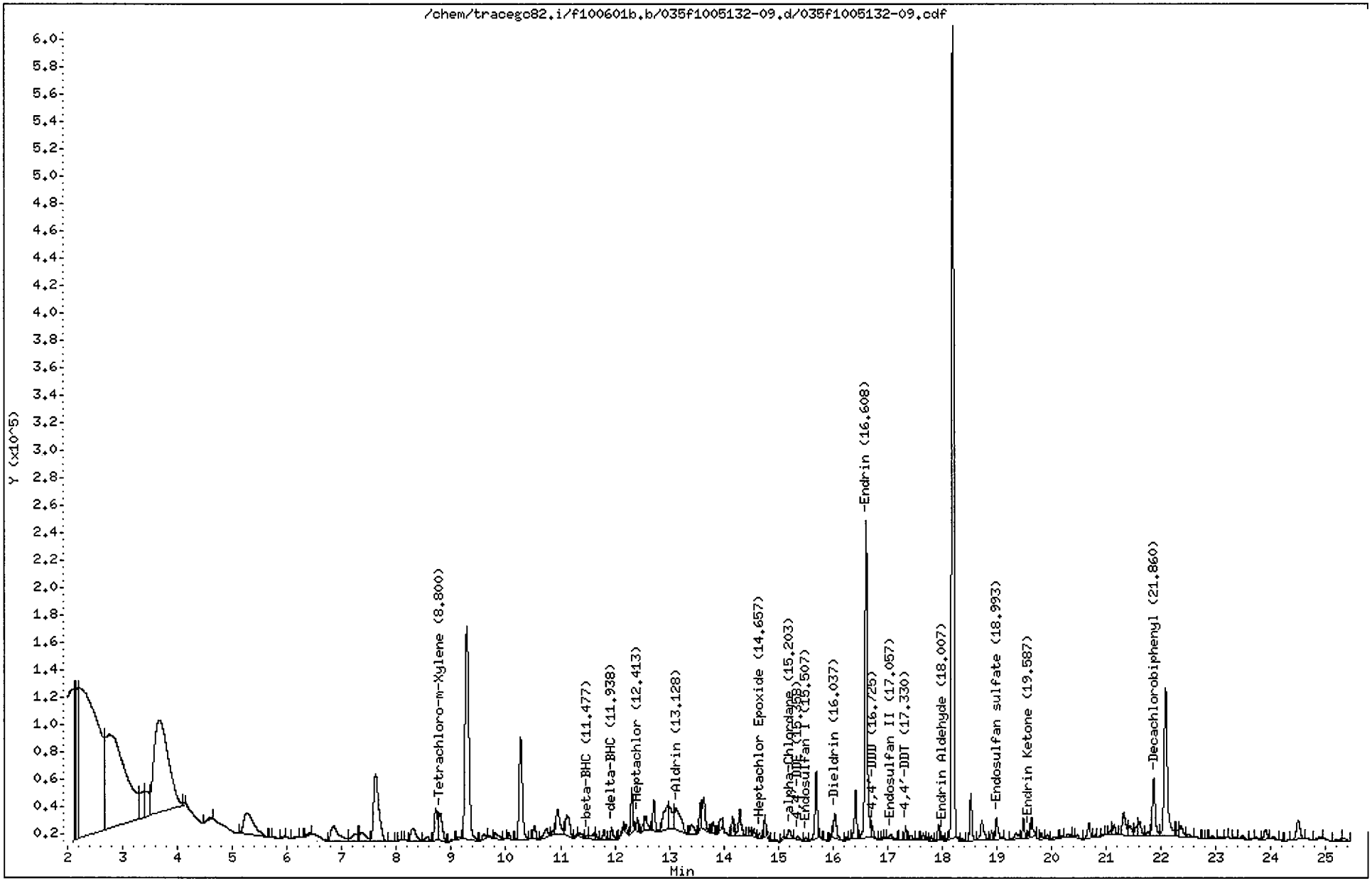
Sample Info: 1005132-09

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



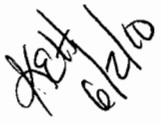
CompuChem

Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.04			635								
1.07			393								
1.13			7043								
1.23			410								
2.09			3120133								
2.15			186658								
2.18			230341								
2.21			2670983								
2.77			1709436								
3.36			113469								
3.41			108584								
3.66			1243124								
4.10			4005								
4.59			6574								
5.28			196794								
5.68			671								
5.92			2707								
6.17			2709								
6.24			595								
6.39			6121								
6.85			113389								
7.24			42573								
7.30			11299								
7.37			54318								
7.62			334993								
8.02			472								
8.08			1004								
8.11			971								
8.30			64113								
8.56			14378								
8.72			89854								
8.80	8.73	8.87	96957	1587700	Tetrachloro-m-Xylene	0.061068	32.83204		101.8	70 - 125	
9.04			2698								
9.14			4762								
9.29			758954								
9.60			12643								
9.70			5164								



CompuChem

Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
9.81		21551								
9.99		933								
10.05		14425								
10.27		305353								
10.52		35365								
10.75		33894								
10.86		7546								
10.95		91505								
11.12		76614								
11.29		2975								
11.36		11029								
11.49	11.41 11.55	6230	1035150	beta-BHC	0.006019	3.235830	2.745161			
11.60		20150								
11.65		10700								
11.80		22159								
11.94	11.85 11.99	29109	2721052	delta-BHC	0.010698	5.751451	5.483871			
12.14		10903								
12.20		13313								
12.31		82522								
12.41	12.38 12.52	24663	2589888	Heptachlor	0.009523	5.119789	5.483871			J
12.53		10673								
12.56		35237								
12.72		61671								
12.79		1777								
12.97		108535								
13.01		81590								
13.13	13.11 13.25	116230	2391920	Aldrin	0.048593	26.12514	5.483871			
13.40		33873								
13.57		54827								
13.63		84314								
13.80		23154								
13.94		31068								
14.16		36742								
14.29		69397								
14.44		849								
14.48		8012								
14.55		15335								

MZ 6/2/10

CompuChem

Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.66	14.56 14.70	9496	2235460	Heptachlor Epoxide	0.004248	2.283815	5.483871			J
14.76		35010								
14.80		7509								
14.88		2141								
14.95		4110								
15.08		5257								
15.20	15.15 15.29	26667	1924148	alpha-Chlordane	0.013859	7.451142	5.483871			
15.36	15.34 15.48	10619	2012896	4,4'-DDE	0.005275	2.836281	10.64516			J
15.51	15.45 15.59	7171	2067970	Endosulfan I	0.003468	1.864329	5.483871			J
15.70		136007								
15.77		2469								
15.86		2567								
15.96		3036								
16.04	15.99 16.13	69771	2037205	Dieldrin	0.034248	18.41285	10.64516			
16.24		4947								
16.32		763								
16.42		95795								
16.61	16.51 16.65	707631	1695798	Endrin	0.417284	224.3465	10.64516			E
16.72	16.66 16.80	21307	1534440	4,4'-DDD	0.013885	7.465159	10.64516			J
16.85		617								
16.91		1923								
16.96		2609								
17.06	17.01 17.15	10680	1759840	Endosulfan II	0.006069	3.262760	10.64516			J
17.19		520								
17.33	17.27 17.41	20585	1722489	4,4'-DDT	0.011950	6.424812	10.64516			J
17.43		10025								
17.54		2262								
17.59		310								
17.65		10494								
17.73		4353								
17.80		7203								
17.93		28210								
18.01	17.93 18.07	7344	1371845	Endrin Aldehyde	0.005353	2.877766	10.64516			J
18.07		1685								
18.20		1833776								
18.28		3103								
18.36		6002								

CompuChem

Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.52		91823								
18.73		61768								
18.90		14870								
18.99	18.89 19.03	46993	1574194	Endosulfan sulfate	0.029852	16.04952	10.64516			
19.35		24464								
19.48		37278								
19.59	19.49 19.63	8726	1849761	Endrin Ketone	0.004717	2.535927	10.64516			J
19.64		43487								
19.81		10609								
19.93		8774								
20.05		6337								
20.20		4807								
20.30		9868								
20.39		2762								
20.47		5268								
20.68		35070								
20.79		3382								
20.94		2338								
21.07		11190								
21.14		24351								
21.32		70760								
21.43		28140								
21.55		21213								
21.61		41765								
21.76		10574								
21.86	21.79 21.93	158741	1622138	Decachlorobiphenyl	0.097859	52.61242		81.5	55 - 130	
22.08		453356								
22.27		5962								
22.31		10923								
22.36		37731								
22.50		9425								
22.62		2217								
22.79		577								
22.84		291								
22.93		5624								
23.09		4811								
23.19		1075								

CompuChem

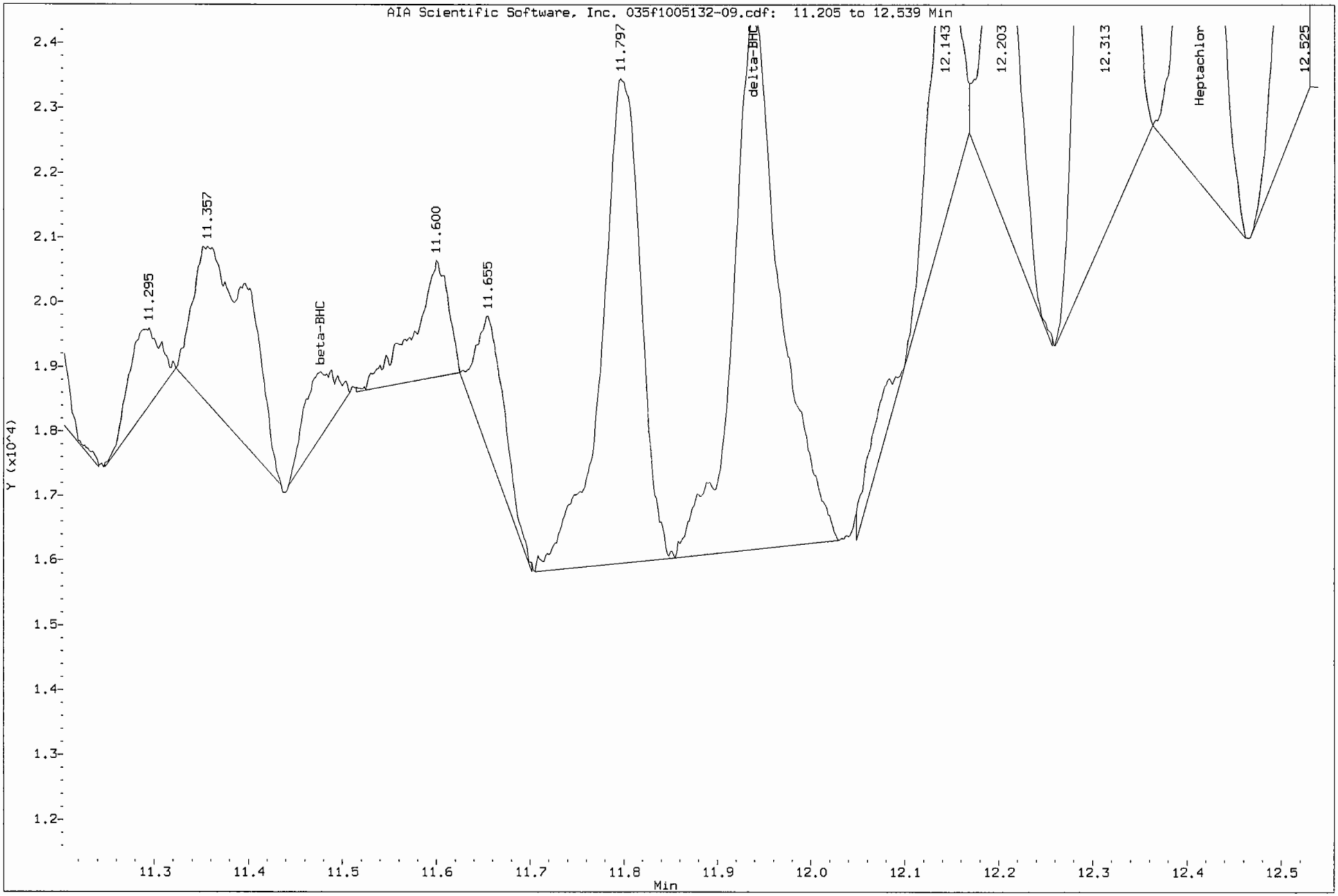
Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.34		4302								
23.48		11254								
23.67		2193								
23.74		6117								
23.89		29503								
24.04		7907								
24.16		1328								
24.32		546								
24.50		64137								
24.88		4971								
25.29		9876								
25.32		10500								

Data File: /chem/tracegc82.i/f100601b.b/035f1005132-09.d/035f1005132-09.cdf
Injection Date: 02-JUN-2010 08:19
Instrument: tracegc82.i
Client Sample ID: SS62-0-1



Data File: /chem/tracegc82.i/f100601b_2C.b/035f1005132-09.d

Date : 02-JUN-2010 08:19

Client ID: SS62-0-1

Instrument: tracegc82.i

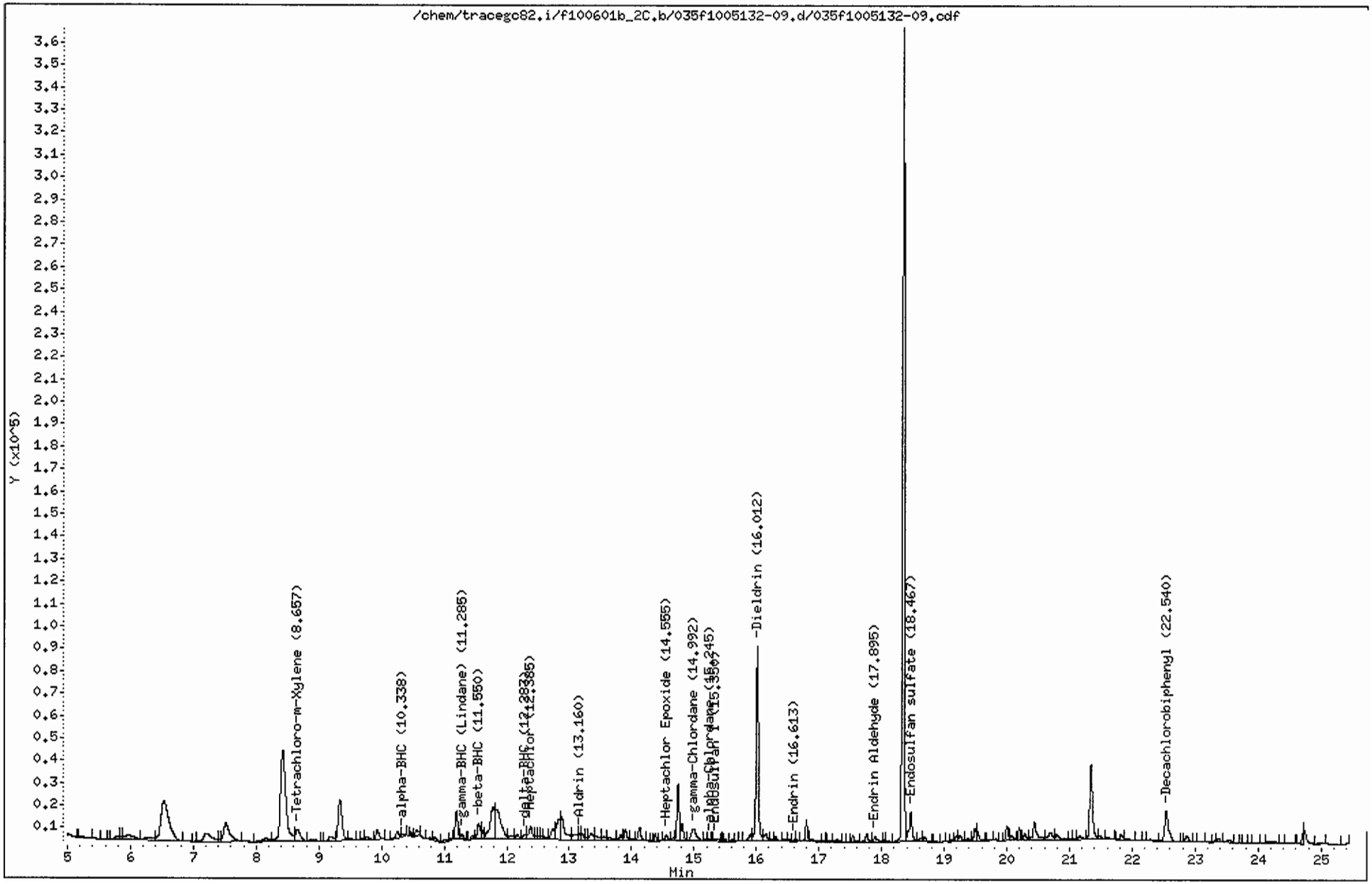
Sample Info: 1005132-09

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.10			475								
1.18			3366								
1.78			373912								
1.91			108535								
2.00			64570								
2.04			15616								
2.98			102897								
4.16			4214								
4.18			2813								
4.24			14729								
4.43			11274								
4.83			37466								
5.24			1750								
5.60			285								
5.81			4825								
5.85			2601								
5.96			18619								
6.28			9354								
6.54			156345								
7.05			592								
7.20			34238								
7.43			3147								
7.51			56794								
7.82			2754								
8.15			9840								
8.43			242049								
8.66	8.59	8.73	28072	548876	Tetrachloro-m-Xylene	0.051143	27.49607		85.2	70 - 125	
8.92			5355								
9.19			9477								
9.34			78073								
9.50			2212								
9.71			1873								
9.77			5381								
9.93			13370								
10.25			8818								
10.34	10.32	10.46	3174	916452	alpha-BHC	0.003462	1.861432	5.483871			J
10.47			4411								

6/2/10

CompuChem

Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.56		9144								
10.77		2040								
10.85		5242								
11.02		3355								
11.11		844								
11.20		35555								
11.28	11.25 11.39	6970	866882	gamma-BHC (Lindane)	0.008039	4.322125	5.483871			J
11.45		4129								
11.55	11.50 11.64	22062	347428	beta-BHC	0.063501	34.14033	2.745161			
11.60		11139								
11.78		76919								
11.84		83662								
12.06		7685								
12.17		7200								
12.28	12.22 12.36	6996	827595	delta-BHC	0.008452	4.544195	5.483871			J
12.38	12.33 12.47	22787	778205	Heptachlor	0.029280	15.74204	5.483871			
12.46		3920								
12.51		4532								
12.55		4189								
12.60		5881								
12.74		16935								
12.84		38287								
12.88		47716								
13.10		12031								
13.16	13.10 13.24	7021	726628	Aldrin	0.009661	5.194124	5.483871			J
13.21		7668								
13.28		3605								
13.35		11645								
13.42		7579								
13.55		5926								
13.64		4991								
13.83		6492								
13.90		13472								
13.99		2178								
14.13		16356								
14.25		1133								
14.33		461								

CompuChem

Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.38		7915								
14.46		964								
14.56	14.45 14.59	7580	683115	Heptachlor Epoxide	0.011096	5.965714	5.483871			
14.67		2652								
14.74		63889								
14.81		19056								
14.99	14.88 15.02	29610	690205	gamma-Chlordane	0.042900	23.06468	5.483871			
15.18		1471								
15.24	15.21 15.35	1843	595455	alpha-Chlordane	0.003095	1.664039	5.483871			J
15.35	15.33 15.47	6301	638725	Endosulfan I	0.009863	5.302903	5.483871			J
15.46		142								
15.50		2174								
15.61		2065								
15.68		1010								
15.75		243								
15.90		10777								
16.01	15.94 16.08	217661	598394	Dieldrin	0.363740	195.5594	10.64516			E
16.16		13515								
16.24		2027								
16.31		5655								
16.45		2276								
16.52		1884								
16.61	16.60 16.74	1823	524785	Endrin	0.003475	1.868046	10.64516			JM
16.65		1163								
16.80		22447								
16.86		4711								
17.08		863								
17.17		661								
17.29		3273								
17.45		310								
17.54		8228								
17.77		10647								
17.90	17.81 17.95	9170	425754	Endrin Aldehyde	0.021536	11.57845	10.64516			
18.03		1618								
18.10		1018								
18.35		767547								
18.47	18.40 18.54	44140	479624	Endosulfan sulfate	0.092028	49.47763	10.64516			

CompuChem

Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.63		5635								
18.69		5882								
18.87		2012								
18.99		792								
19.04		191								
19.12		1849								
19.19		4896								
19.26		7594								
19.38		3545								
19.49		12741								
19.53		11729								
19.73		1658								
19.82		1759								
19.88		682								
20.00		18123								
20.07		6641								
20.20		12720								
20.29		9489								
20.44		35282								
20.70		16011								
20.80		10563								
21.02		810								
21.07		1618								
21.16		7014								
21.34		106649								
21.49		5088								
21.61		2368								
21.83		6806								
21.90		3142								
22.08		672								
22.17		351								
22.29		3244								
22.54	22.47 22.61	58736	497254	Decachlorobiphenyl	0.118119	63.50462		98.4	55 - 130	
22.87		8759								
22.99		284								
23.07		699								
23.20		662								

CompuChem

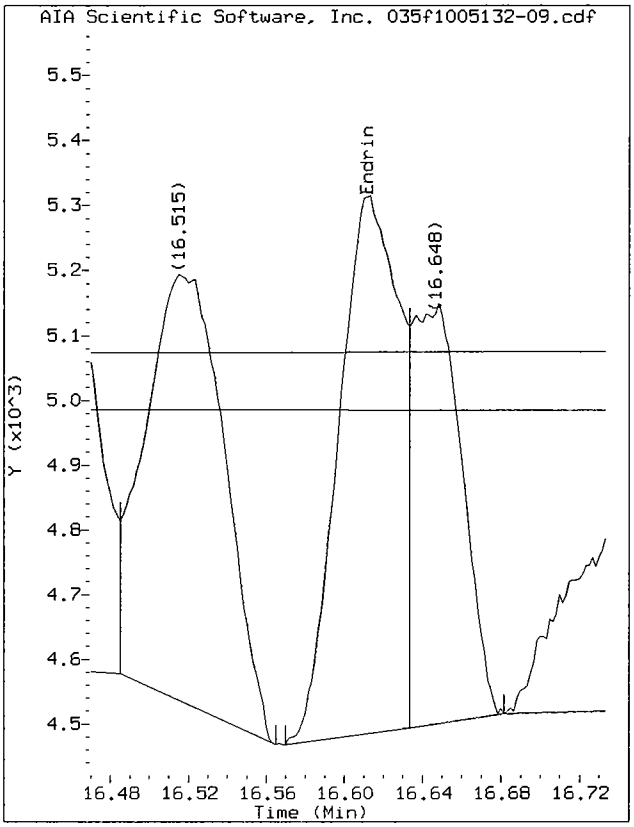
Lab Smp Id : 1005132-09 Client Smp Id : SS62-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:19 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS62-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

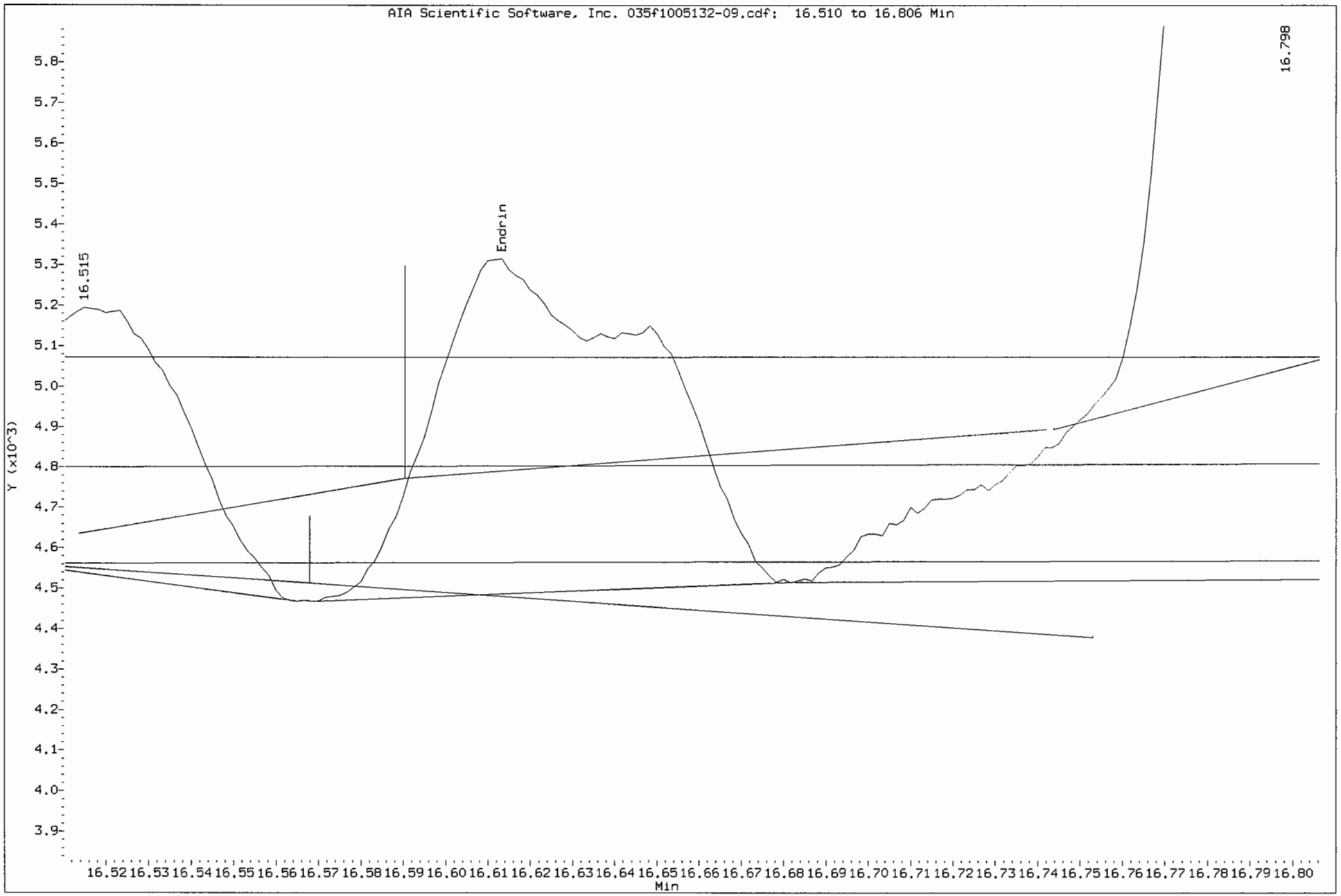
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.30		1579								
23.37		5196								
23.54		5891								
23.74		125								
23.85		151								
23.93		512								
24.11		942								
24.18		5983								
24.48		946								
24.73		12417								
25.01		1059								
25.42		506								

Manually Integrated Peaks



Start: 16.57 Stop: 16.63

Data File: /chem/tracegc82.i/f100601b_2C.b/035f1005132-09.d/035f1005132-09.cdf
Injection Date: 02-JUN-2010 08:19
Instrument: tracegc82.i
Client Sample ID: SS62-0-1



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS62-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-09RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 69 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	55	U
319-85-7	beta-BHC	55	U
319-84-6	alpha-BHC	55	U
319-86-8	delta-BHC	5.6	DJP
58-89-9	gamma-BHC (Lindane)	55	U
72-54-8	4,4'-DDD	110	U
72-55-9	4,4'-DDE	110	U
50-29-3	4,4'-DDT	18	DJ
60-57-1	Dieldrin	65	DJP
959-98-8	Endosulfan I	55	U
33213-65-9	Endosulfan II	110	U
1031-07-8	Endosulfan sulfate	17	DJP
72-20-8	Endrin	110	U
7421-93-4	Endrin Aldehyde	110	U
76-44-8	Heptachlor	13	DJ
1024-57-3	Heptachlor Epoxide	55	U
72-43-5	Methoxychlor	550	U
8001-35-2	Toxaphene	2700	U
53494-70-5	Endrin Ketone	110	U
5103-74-2	gamma-Chlordane	55	U
5103-71-9	alpha-Chlordane	55	U

Data File: /chem/tracegc82.i/f100601g.b/096f1005132-09.d

Date : 03-JUN-2010 16:12

Client ID: SS62-0-1DL

Instrument: tracegc82.i

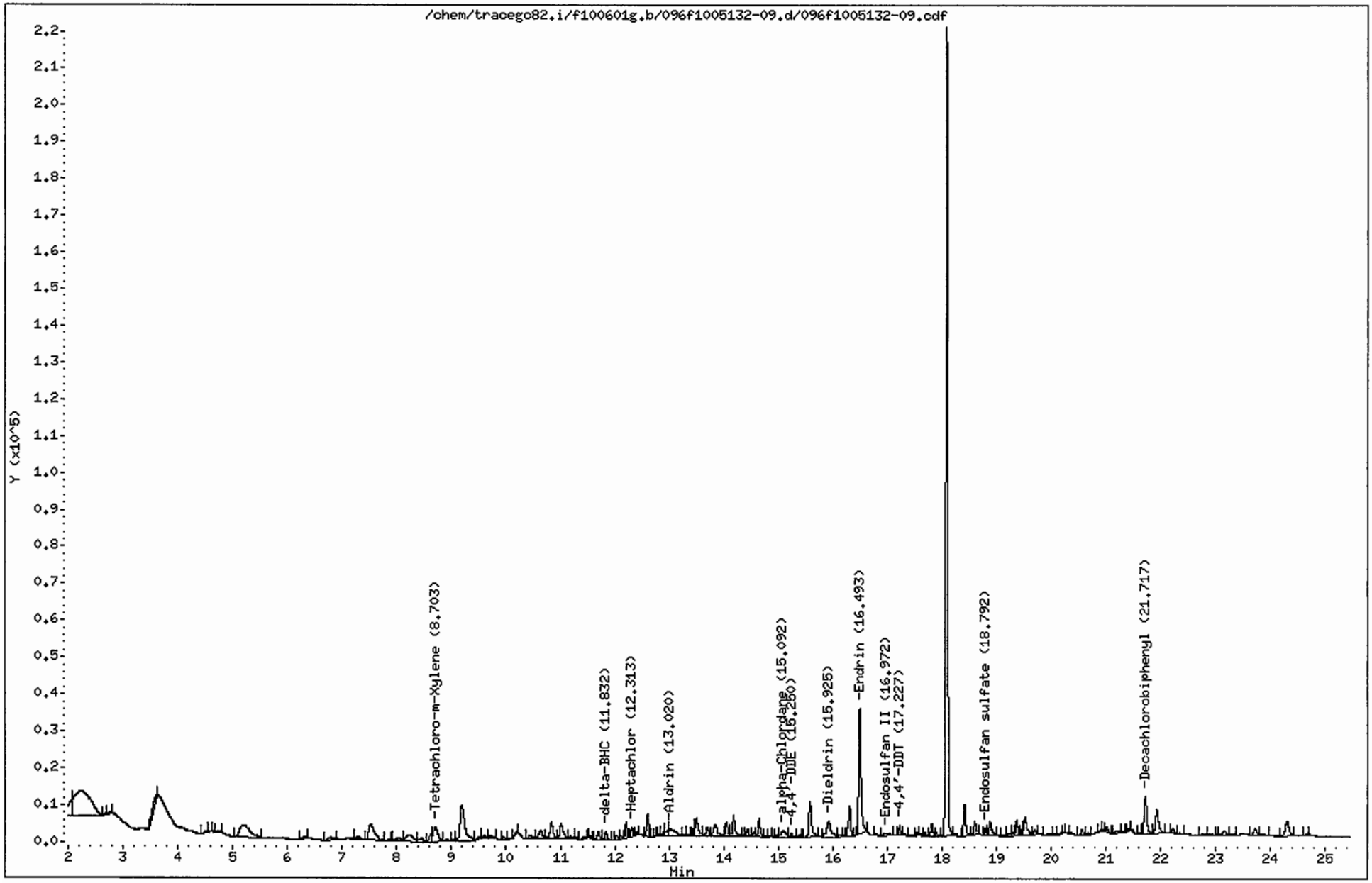
Sample Info: 1005132-09RE1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-09RE1 Client Smp Id : SS62-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:12 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS62-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.14			656								
1.47			42058								
1.67			1229								
1.71			509								
2.08			25729								
2.23			135842								
2.69			359								
2.75			1127								
3.62			11087								
4.53			1628								
4.57			1039								
4.72			830								
5.20			41438								
6.30			1048								
6.79			4137								
7.28			3196								
7.53			31958								
7.92			334								
8.02			5624								
8.20			16499								
8.46			5037								
8.63			6895								
8.70	8.63	8.77	22915	1587700	Tetrachloro-m-Xylene	0.014432	77.59248		240.5*	70 - 125	R
8.92			1910								
9.06			1285								
9.19			57591								
9.51			2361								
9.60			3375								
9.71			3258								
9.95			2308								
10.18			2609								
10.45			4478								
10.64			10773								
10.83			17763								
11.01			16523								
11.18			2319								
11.30			893								

6/4/10

CompuChem

Lab Smp Id : 1005132-09RE1 Client Smp Id : SS62-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS62-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.45		1616								
11.55		1386								
11.70		6587								
11.83	11.74 11.88	7542	2721052	delta-BHC	0.002771	14.89975	54.83871			J
12.03		3470								
12.11		2765								
12.21		10237								
12.31	12.27 12.41	6337	2589888	Heptachlor	0.002446	13.15289	54.83871			J
12.40		2422								
12.60		17129								
12.76		486								
12.83		305								
12.91		2720								
12.97		3672								
13.02	13.00 13.14	14522	2391920	Aldrin	0.006071	32.64125	54.83871			J
13.28		1013								
13.35		1920								
13.46		4030								
13.50		19361								
13.70		7407								
13.85		16027								
14.05		10950								
14.19		19218								
14.38		539								
14.44		5278								
14.55		2340								
14.65		13380								
14.78		769								
14.85		447								
14.97		2261								
15.09	15.03 15.17	11752	1924148	alpha-Chlordane	0.006108	32.83677	54.83871			J
15.25	15.23 15.37	4207	2012896	4,4'-DDE	0.002090	11.23668	106.4516			J
15.39		1921								
15.58		31758								
15.92	15.87 16.01	24734	2037205	Dieldrin	0.012141	65.27497	106.4516			J
16.13		1514								
16.31		23455								

CompuChem

Lab Smp Id : 1005132-09RE1 Client Smp Id : SS62-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS62-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.49	16.39 16.53	100422	1695798	Endrin	0.059218	318.3740	106.4516			
16.79		1593								
16.97	16.89 17.03	5602	1759840	Endosulfan II	0.003183	17.11116	106.4516			J
17.23	17.16 17.30	5898	1722489	4,4'-DDT	0.003424	18.40922	106.4516			J
17.32		1749								
17.43		970								
17.55		1798								
17.62		1209								
17.69		1906								
17.82		7740								
17.90		2540								
18.09		545486								
18.25		1555								
18.41		23531								
18.61		10514								
18.79	18.77 18.91	4848	1574194	Endosulfan sulfate	0.003080	16.55737	106.4516			J
18.88		12092								
19.15		1038								
19.23		2791								
19.30		1877								
19.37		11595								
19.47		3569								
19.52		18022								
19.70		3411								
19.81		1005								
19.94		2250								
20.07		799								
20.18		582								
20.28		606								
20.35		1679								
20.57		4413								
20.67		1006								
20.92		1311								
20.95		1098								
21.01		4640								
21.17		2878								
21.30		1498								

CompuChem

Lab Smp Id : 1005132-09RE1 Client Smp Id : SS62-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS62-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.41		2080								
21.63		1373								
21.72	21.64 21.78	37319	1622138	Decachlorobiphenyl	0.023005	123.6851		191.7*	55 - 130	R
21.93		26853								
22.22		4090								
22.34		1043								
22.77		1968								
22.90		1817								
23.16		4178								
23.30		1517								
23.72		8353								
23.84		2718								
24.30		17902								
24.66		581								

Data File: /chem/tracegc82.i/f100601g_2C.b/096f1005132-09.d

Date : 03-JUN-2010 16:12

Client ID: SS62-0-1DL

Instrument: tracegc82.i

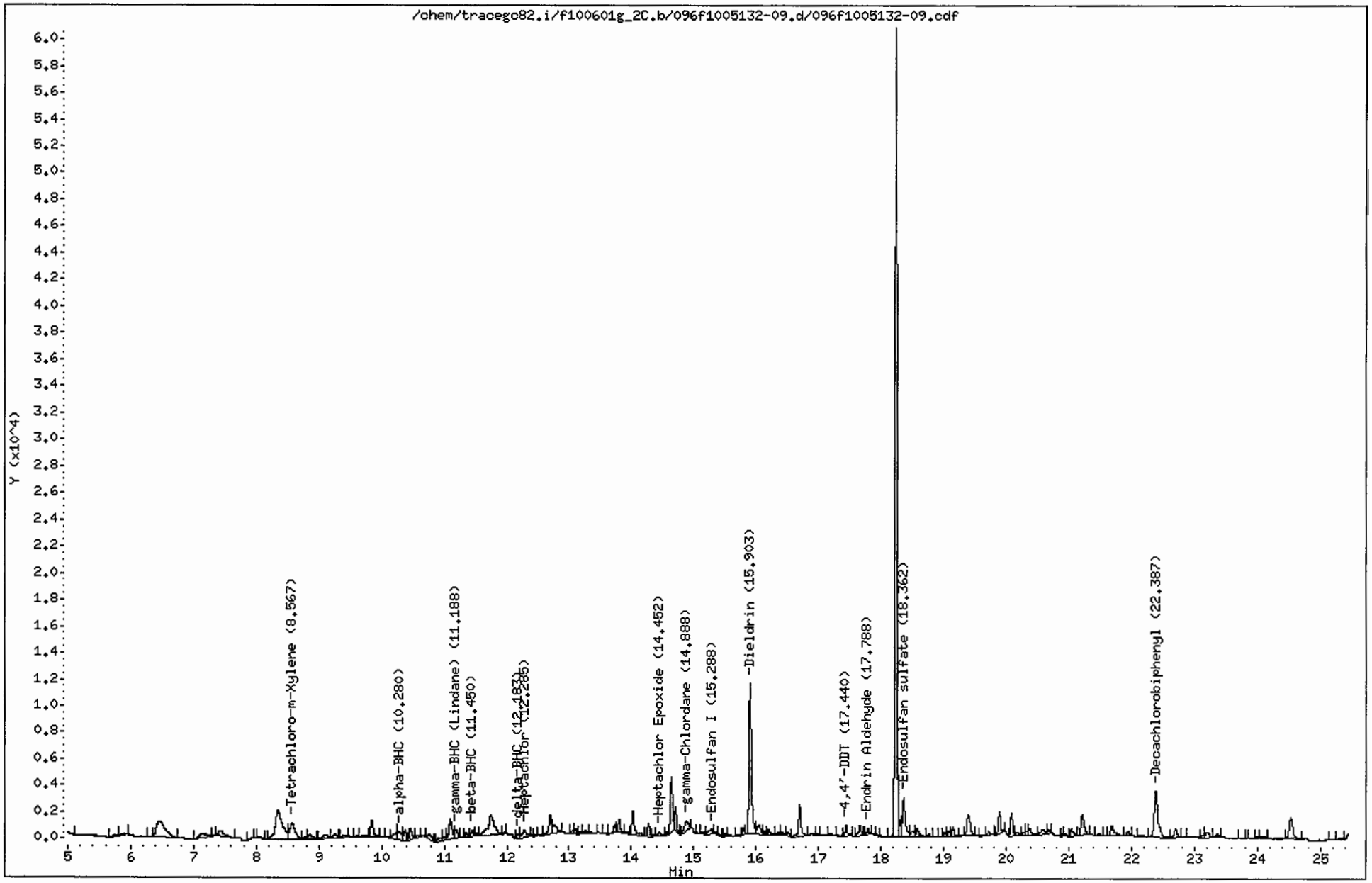
Sample Info: 1005132-09RE1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-09RE1 Client Smp Id : SS62-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:12 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS62-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.18			527								
1.34			1156								
1.55			63455								
1.97			179528								
3.01			13423								
4.20			1185								
4.37			2775								
4.76			7983								
5.80			603								
5.89			686								
6.29			156								
6.45			11611								
7.13			2266								
7.42			2929								
7.95			195								
8.05			413								
8.35			17654								
8.57	8.49	8.63	7207	548876	Tetrachloro-m-Xylene	0.013129	70.58413		218.8*	70 - 125	R
8.79			474								
8.85			1908								
9.11			1492								
9.26			932								
9.40			400								
9.61			351								
9.73			716								
9.84			3879								
10.10			337								
10.24			2085								
10.28	10.22	10.36	3010	916452	alpha-BHC	0.003283	17.65222	54.83871			J
10.37			2317								
10.46			2997								
10.58			537								
10.76			1653								
10.93			1171								
11.02			1014								
11.10			5095								
11.19	11.15	11.29	2387	866882	gamma-BHC (Lindane)	0.002752	14.79780	54.83871			J

6/4/10

CompuChem

Lab Smp Id : 1005132-09RE1 Client Smp Id : SS62-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS62-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.35		752								
11.45	11.40 11.54	1259	347428	beta-BHC	0.003621	19.46720	27.45161			J
11.52		514								
11.75		11263								
11.96		259								
12.18	12.11 12.25	863	827595	delta-BHC	0.001042	5.599851	54.83871			J
12.28	12.23 12.37	2739	778205	Heptachlor	0.003518	18.91587	54.83871			J
12.40		285								
12.46		278								
12.70		4366								
12.76		2599								
13.06		472								
13.11		685								
13.18		262								
13.26		560								
13.35		258								
13.56		229								
13.73		1400								
13.80		2688								
13.93		366								
14.02		5756								
14.28		2203								
14.36		302								
14.45	14.34 14.48	902	683115	Heptachlor Epoxide	0.001319	7.091172	54.83871			J
14.56		387								
14.64		9713								
14.71		4042								
14.89	14.77 14.91	3235	690205	gamma-Chlordane	0.004686	25.19121	54.83871			J
15.06		173								
15.15		527								
15.29	15.21 15.35	1453	638725	Endosulfan I	0.002273	12.22193	54.83871			J
15.34		371								
15.40		328								
15.50		600								
15.58		396								
15.71		153								
15.79		1102								

CompuChem

Lab Smp Id : 1005132-09RE1 Client Smp Id : SS62-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS62-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.90	15.82 15.96	30346	598394	Dieldrin	0.050711	272.6385	106.4516			
16.05		2634								
16.14		483								
16.21		937								
16.35		371								
16.41		505								
16.51		829								
16.70		6436								
16.98		176								
17.19		465								
17.44	17.44 17.58	2058	503765	4,4'-DDT	0.004083	21.95297	106.4516			J
17.66		2035								
17.79	17.69 17.83	1190	425754	Endrin Aldehyde	0.002793	15.01448	106.4516			J
17.92		141								
18.24		127877								
18.31		2583								
18.36	18.29 18.43	8843	479624	Endosulfan sulfate	0.018437	99.12564	106.4516			J
18.50		1610								
18.58		2004								
18.76		682								
18.89		133								
19.01		853								
19.08		961								
19.15		1696								
19.27		335								
19.39		5885								
19.64		213								
19.72		686								
19.89		4556								
20.09		4038								
20.17		885								
20.30		571								
20.33		624								
20.38		1603								
20.59		1611								
20.68		519								
20.89		192								

CompuChem

Lab Smp Id : 1005132-09RE1 Client Smp Id : SS62-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS62-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 69(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.95		562								
21.04		2025								
21.21		5434								
21.48		498								
21.69		3313								
21.94		1037								
22.16		503								
22.39	22.31 22.45	14150	497254	Decachlorobiphenyl	0.028456	152.9906		237.1*	55 - 130	R
22.70		2234								
22.83		129								
23.14		562								
23.20		1791								
23.36		843								
23.75		193								
23.91		174								
23.99		182								
24.07		365								
24.53		6631								
25.20		259								
25.32		405								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS71-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	1.4	J
50-29-3	4,4'-DDT	1.1	J
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	0.19	JP
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

Data File: /chem/tracegc82.i/f100601d.b/060f1005132-17.d

Date : 02-JUN-2010 20:27

Client ID: SS71-0-1

Instrument: tracegc82.i

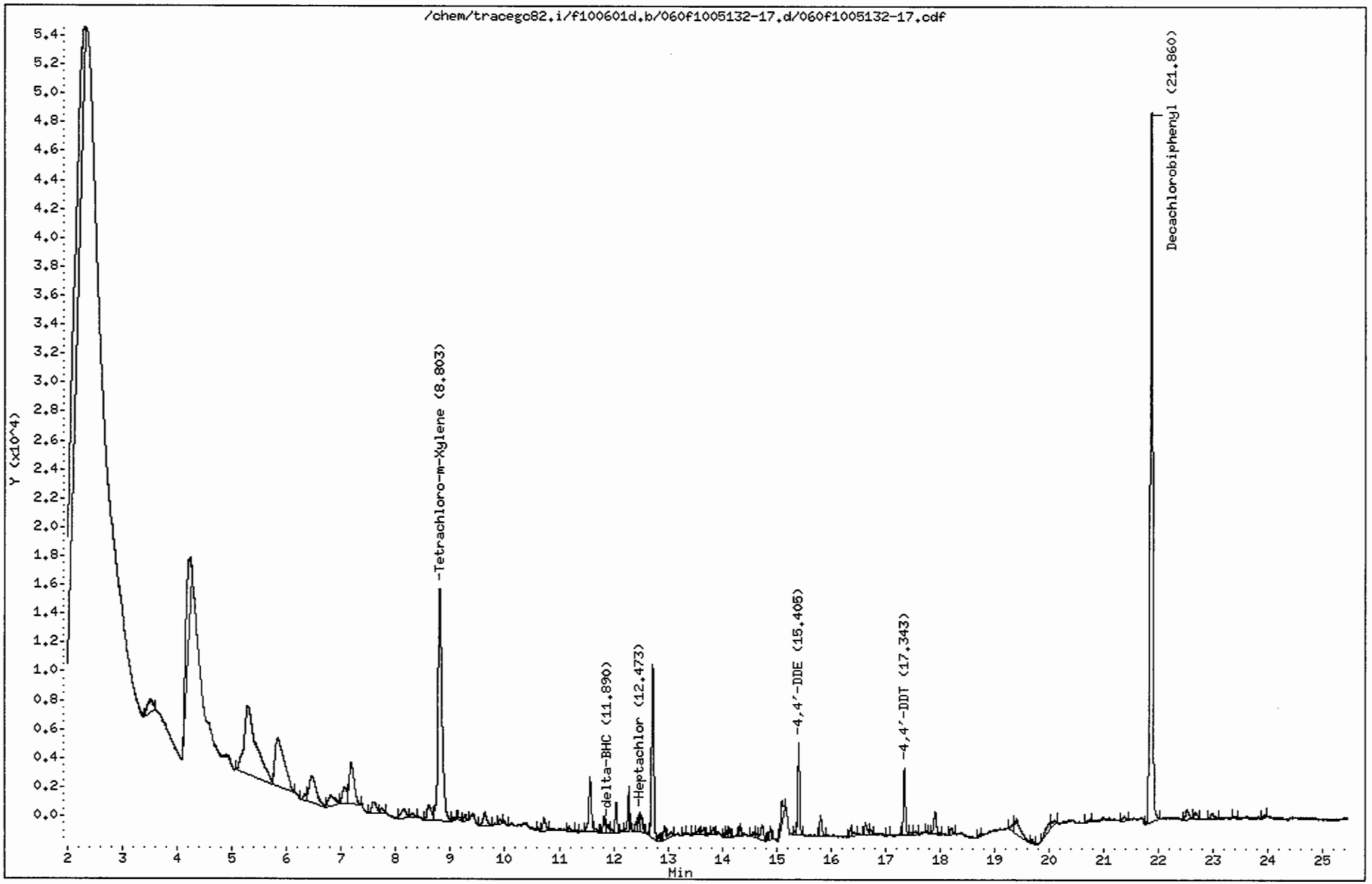
Sample Info: 1005132-17

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-17 Client Smp Id : SS71-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:27 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS71-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49		153466								
2.31		83563								
3.51		5899								
4.21		36785								
5.29		73913								
5.84		39006								
6.33		1745								
6.45		16295								
6.81		5476								
7.05		6308								
7.18		17862								
7.59		4781								
7.74		1220								
8.15		3953								
8.30		1027								
8.61		5786								
8.80	8.73 8.87	83615	1587700	Tetrachloro-m-Xylene	0.052664	9.645351		87.8	70 - 125	
9.05		481								
9.16		638								
9.27		1434								
9.63		4580								
9.91		852								
9.98		674								
10.61		511								
10.72		3042								
11.18		1050								
11.32		281								
11.56		12384								
11.66		821								
11.82		3166								
11.89		1880								
11.94		697								
12.05		5457								
12.28		4046								
12.42		1680								
12.47	12.38 12.52	2715	2589888	Heptachlor	0.001048	0.191998	1.868132			
12.52		2894								

JM 2
6/3/10

CompuChem

Lab Smp Id : 1005132-17 Client Smp Id : SS71-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:27 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS71-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.65		528								
12.72		35284								
12.83		874								
12.94		2751								
13.06		1610								
13.30		319								
13.47		395								
13.57		1363								
13.66		1625								
13.75		354								
13.84		1289								
14.04		491								
14.10		917								
14.14		1213								
14.32		1802								
14.56		1058								
14.62		1167								
14.74		4067								
14.88		2235								
15.10		5958								
15.34		682								
15.40	15.34 15.48	15067	2012896	4,4'-DDE	0.007485	1.370831	3.626374			J
15.81		4144								
16.36		1460								
16.42		1052								
16.63		3004								
16.73		1167								
17.03		301								
17.34	17.27 17.41	11302	1722489	4,4'-DDT	0.006561	1.201728	3.626374			J
17.45		584								
17.55		638								
17.75		303								
17.91		5410								
18.20		1473								
18.72		391								
19.34		2058								
19.41		7315								

CompuChem

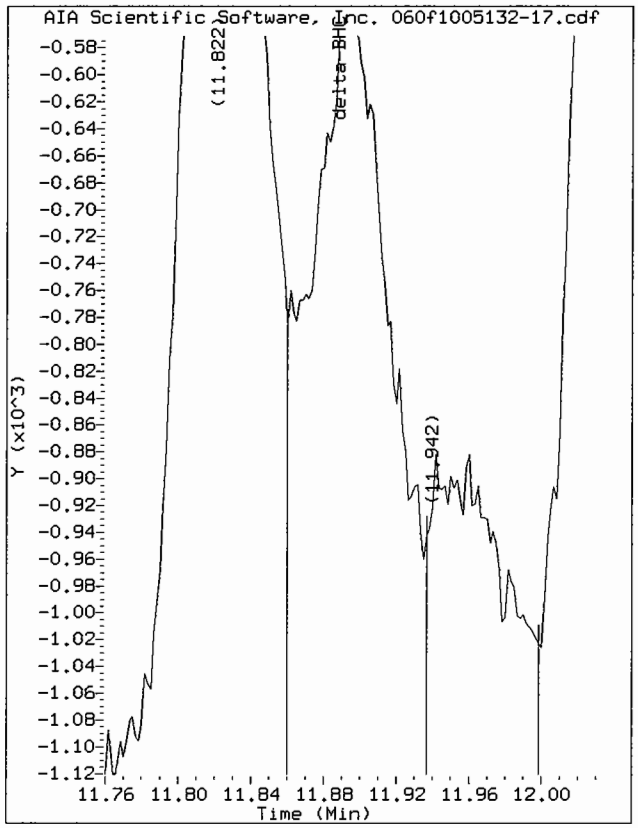
Lab Smp Id : 1005132-17 Client Smp Id : SS71-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:27 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS71-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

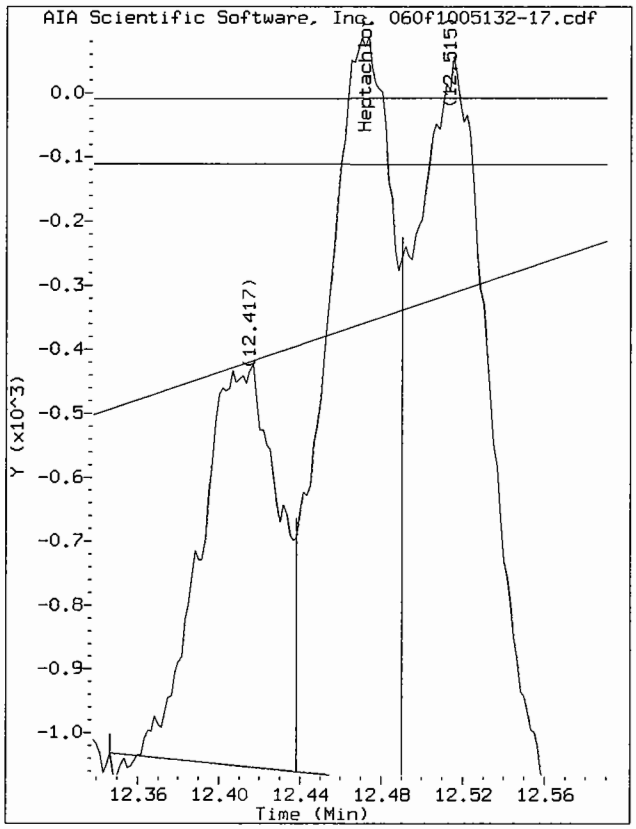
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.69		860								
20.02		4024								
20.11		1682								
20.72		692								
21.38		1252								
21.86	21.79 21.93	159988	1622138	Decachlorobiphenyl	0.098627	18.06359		82.2	55 - 130	
22.52		3003								
22.67		1924								
22.97		2028								
23.37		532								
23.91		472								

Manually Integrated Peaks

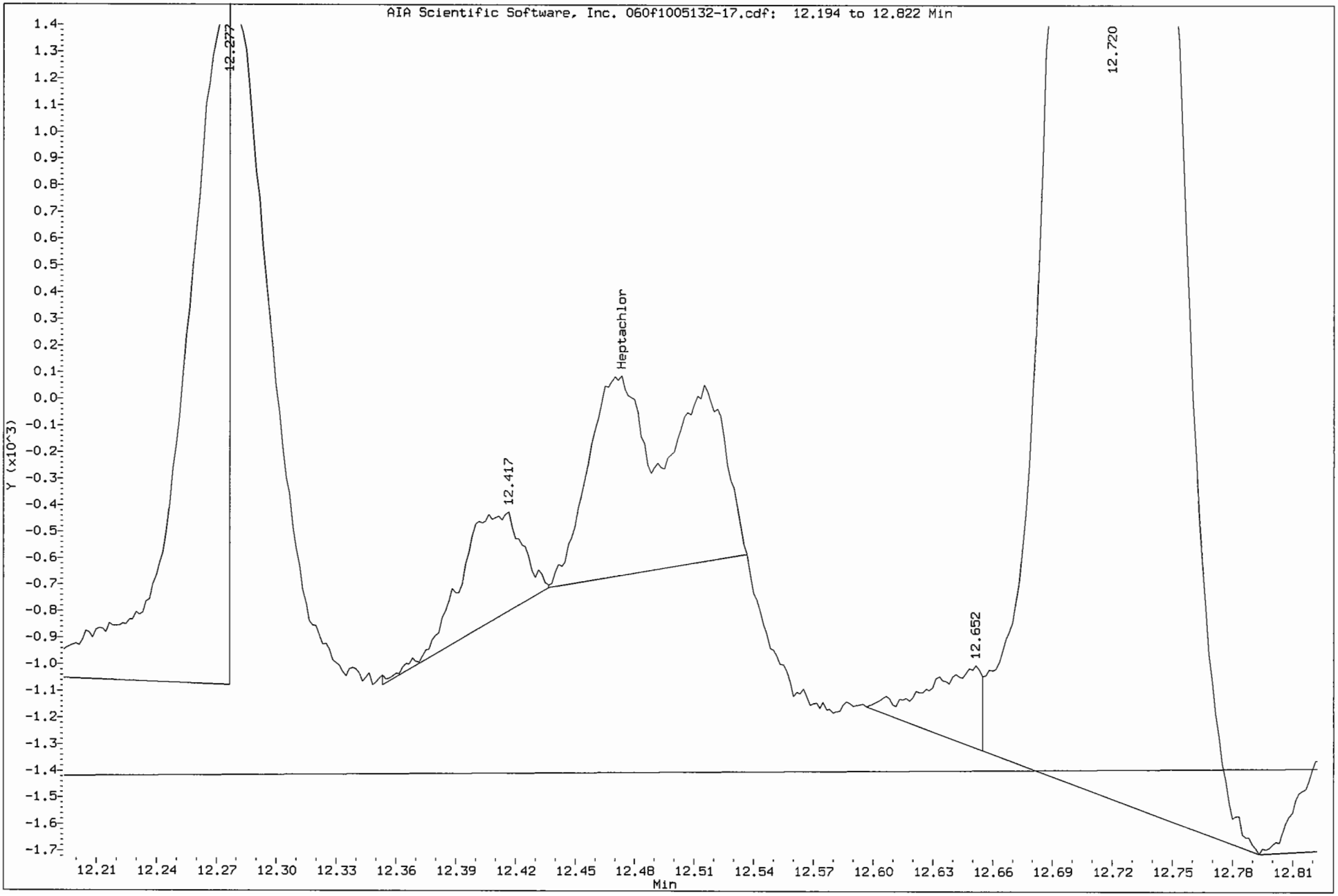


Start: 11.86 Stop: 11.94



Start: 12.44 Stop: 12.49

Data File: /chem/tracegc82.i/f100601d.b/060f1005132-17.d/060f1005132-17.cdf
Injection Date: 02-JUN-2010 20:27
Instrument: tracegc82.i
Client Sample ID: SS71-0-1



Data File: /chem/tracegc82.i/f100601d_2C.b/060f1005132-17.d

Date : 02-JUN-2010 20:27

Client ID: SS71-0-1

Instrument: tracegc82.i

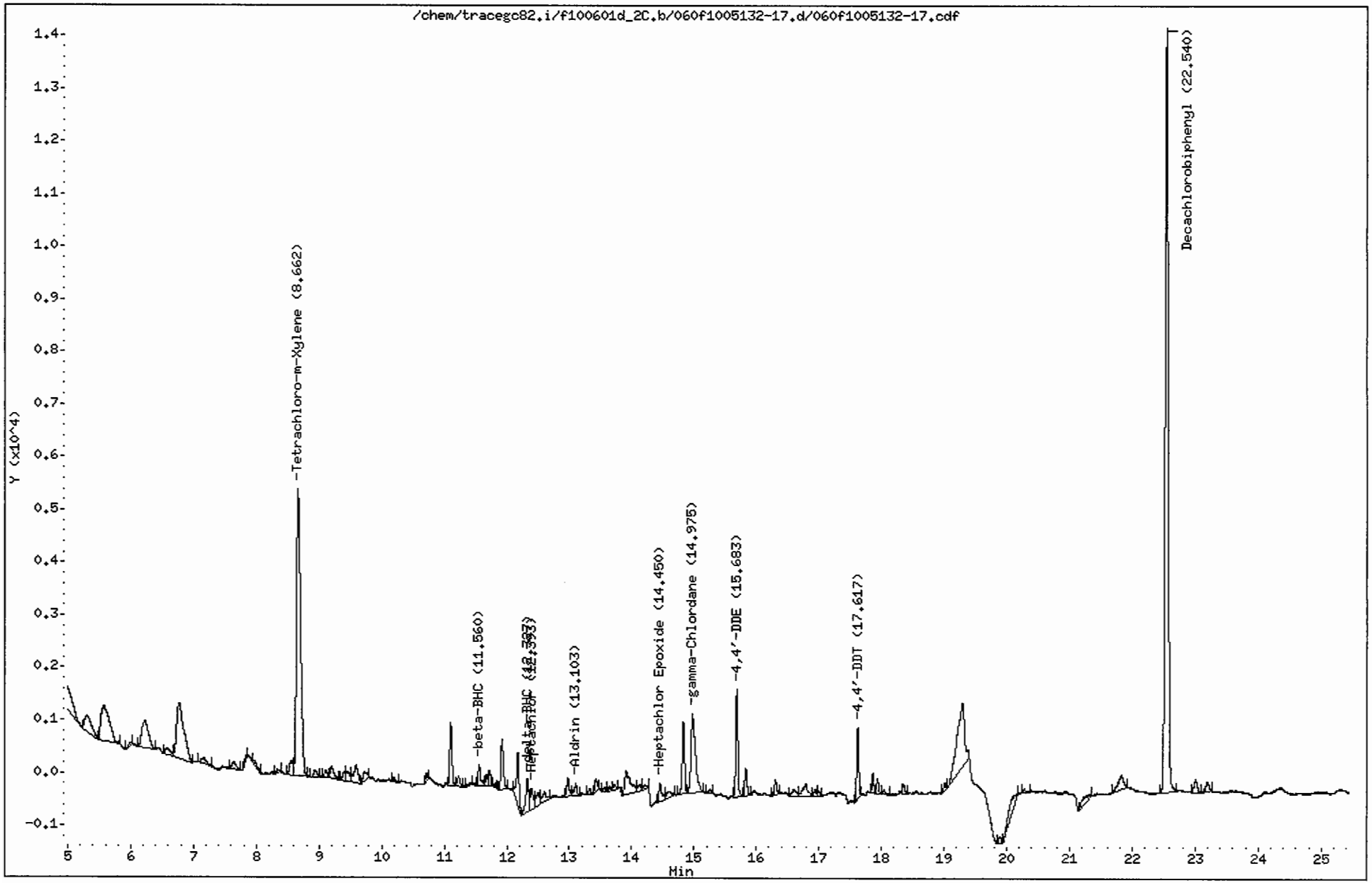
Sample Info: 1005132-17

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



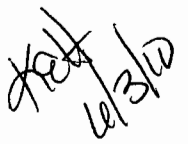
CompuChem

Lab Smp Id : 1005132-17 Client Smp Id : SS71-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:27 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SS71-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			251								
1.51			144383								
2.08			757479								
3.17			19703								
3.52			59765								
4.43			351								
4.70			1884								
4.85			15774								
5.30			2374								
5.57			6132								
6.00			142								
6.22			3801								
6.58			765								
6.77			8610								
7.17			649								
7.63			647								
7.84			215								
7.96			316								
8.34			208								
8.55			1087								
8.66	8.59	8.73	25082	548876	Tetrachloro-m-Xylene	0.045695	8.369085		76.2	70 - 125	
8.93			491								
9.10			344								
9.19			853								
9.40			494								
9.45			797								
9.58			1570								
9.72			679								
10.19			285								
10.71			381								
11.10			3021								
11.22			551								
11.38			127								
11.56	11.50	11.64	1201	347428	beta-BHC	0.003454	0.632593	0.935165			J
11.67			566								
11.72			609								
11.80			163								



CompuChem

Lab Smp Id : 1005132-17 Client Smp Id : SS71-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:27 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SS71-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.92		2620								
12.17		2956								
12.33	12.22 12.36	2050	827595	delta-BHC	0.002477	0.453673	1.868132			J
12.39	12.33 12.47	1263	778205	Heptachlor	0.001623	0.297246	1.868132			J
12.50		1100								
12.60		933								
12.97		992								
13.10	13.10 13.24	744	726628	Aldrin	0.001024	0.187529	1.868132			J
13.32		254								
13.42		642								
13.56		164								
13.64		160								
13.72		209								
13.91		2887								
14.12		334								
14.21		299								
14.45	14.45 14.59	1200	683115	Heptachlor Epoxide	0.001757	0.321732	1.868132			J
14.60		611								
14.83		3450								
14.98	14.88 15.02	7304	690205	gamma-Chlordane	0.010582	1.938162	1.868132			
15.26		219								
15.68	15.61 15.75	4752	617325	4,4'-DDE	0.007698	1.409840	3.626374			J
15.82		1312								
16.30		803								
16.60		585								
16.78		1354								
16.94		336								
17.00		194								
17.62	17.55 17.69	3027	503765	4,4'-DDT	0.006009	1.100504	3.626374			J
17.86		770								
17.93		610								
18.04		228								
18.35		452								
19.00		347								
19.29		10833								
19.89		283								
20.16		2369								

CompuChem

Lab Smp Id : 1005132-17 Client Smp Id : SS71-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:27 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SS71-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.27		209								
21.30		924								
21.82		1630								
22.54	22.47 22.61	47604	497254	Decachlorobiphenyl	0.095734	17.53364		79.8	55 - 130	
23.00		854								
23.20		698								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS71D-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 9 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.9	U
319-85-7	beta-BHC	1.9	U
319-84-6	alpha-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
72-54-8	4,4'-DDD	3.6	U
72-55-9	4,4'-DDE	4.0	
50-29-3	4,4'-DDT	2.5	J
60-57-1	Dieldrin	3.6	U
959-98-8	Endosulfan I	1.9	U
33213-65-9	Endosulfan II	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
72-20-8	Endrin	3.6	U
7421-93-4	Endrin Aldehyde	3.6	U
76-44-8	Heptachlor	1.9	U
1024-57-3	Heptachlor Epoxide	1.9	U
72-43-5	Methoxychlor	19	U
8001-35-2	Toxaphene	91	U
53494-70-5	Endrin Ketone	3.6	U
5103-74-2	gamma-Chlordane	1.9	U
5103-71-9	alpha-Chlordane	1.9	U

Data File: /chem/tracegc82.i/f100601d.b/061f1005132-18.d

Date : 02-JUN-2010 20:56

Client ID: SS71D-0-1

Instrument: tracegc82.i

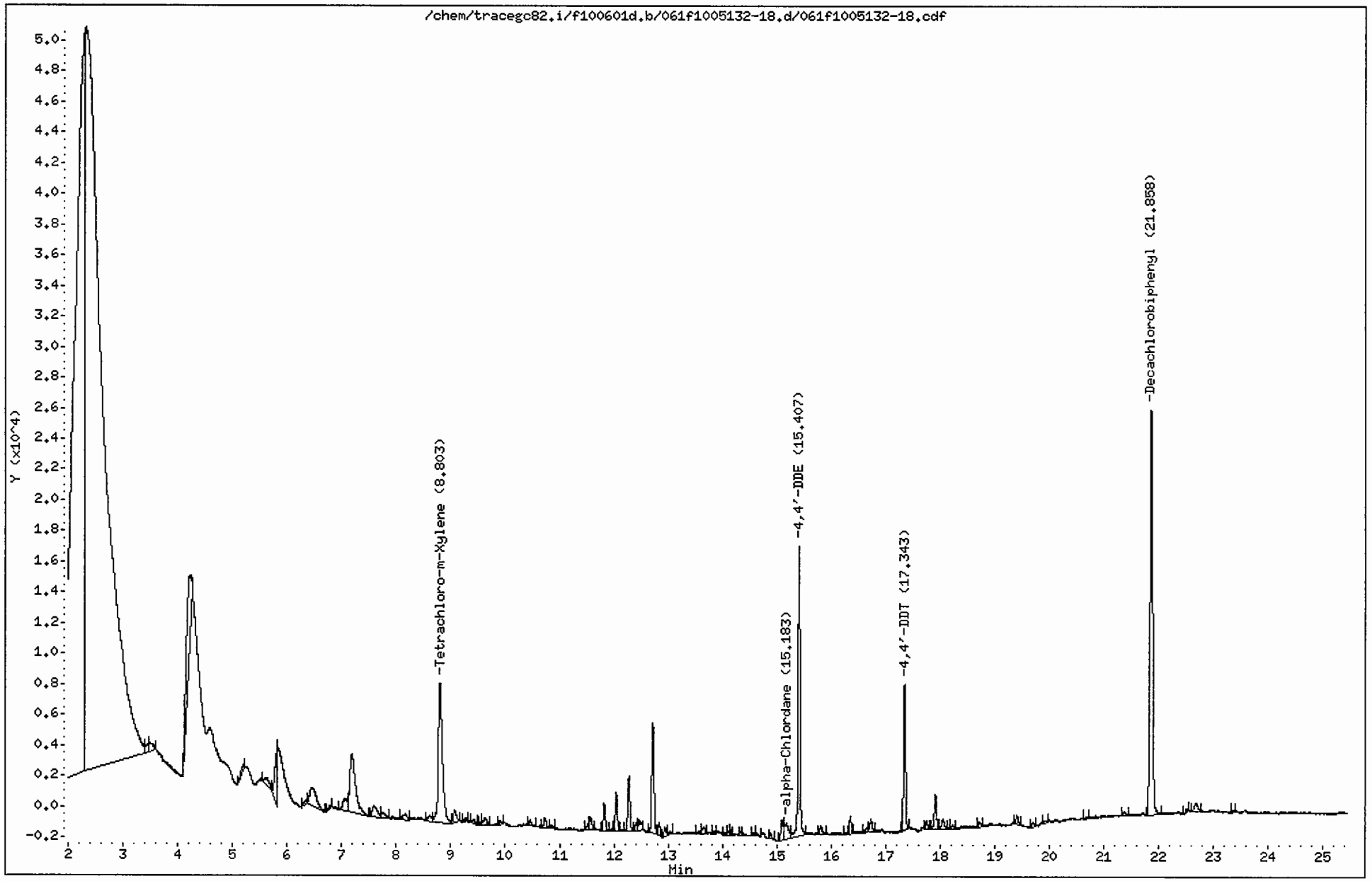
Sample Info: 1005132-18

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-18 Client Smp Id : SS71D-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:56 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS71D-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.50			256311								
2.29			636115								
2.33			1134593								
3.45			1693								
3.50			2994								
4.21			30627								
5.20			1621								
5.60			2725								
5.83			11276								
6.35			783								
6.46			10341								
6.78			534								
7.06			4222								
7.19			28566								
7.59			4654								
7.74			1634								
8.14			2208								
8.60			1504								
8.80	8.73	8.87	47740	1587700	Tetrachloro-m-Xylene	0.030068	5.506966		50.1*	70 - 125	R
9.07			2960								
9.27			644								
9.42			999								
9.57			509								
9.62			1961								
9.92			581								
10.46			1117								
10.73			2160								
10.86			602								
11.53			683								
11.57			2686								
11.82			5067								
11.96			487								
12.04			6357								
12.28			9938								
12.41			1265								
12.47			2462								
12.72			21058								

6/3/10

CompuChem

Lab Smp Id : 1005132-18 Client Smp Id : SS71D-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:56 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS71D-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.83		1993								
12.94		1660								
13.05		421								
13.56		545								
13.66		1572								
13.84		500								
14.05		312								
14.10		499								
14.14		648								
14.33		411								
14.57		416								
14.63		495								
14.89		1187								
15.10		4548								
15.18	15.15 15.29	4950	1924148	alpha-Chlordane	0.002572	0.471071	1.868132			J
15.41	15.34 15.48	48627	2012896	4,4'-DDE	0.024157	4.424401	3.626374			
15.81		1782								
16.26		314								
16.35		2573								
16.64		948								
16.73		2283								
17.34	17.27 17.41	23787	1722489	4,4'-DDT	0.013810	2.529243	3.626374			J
17.75		1031								
17.91		6181								
18.05		1937								
18.22		672								
18.71		894								
19.41		1525								
19.70		747								
19.93		380								
20.70		430								
21.37		878								
21.86	21.79 21.93	87953	1622138	Decachlorobiphenyl	0.054220	9.930477		45.2*	55 - 130	R
22.52		632								
22.68		2552								
23.37		342								

Data File: /chem/tracegc82.i/f100601d_2C.b/061f1005132-18.d

Date : 02-JUN-2010 20:56

Client ID: SS71D-0-1

Instrument: tracegc82.i

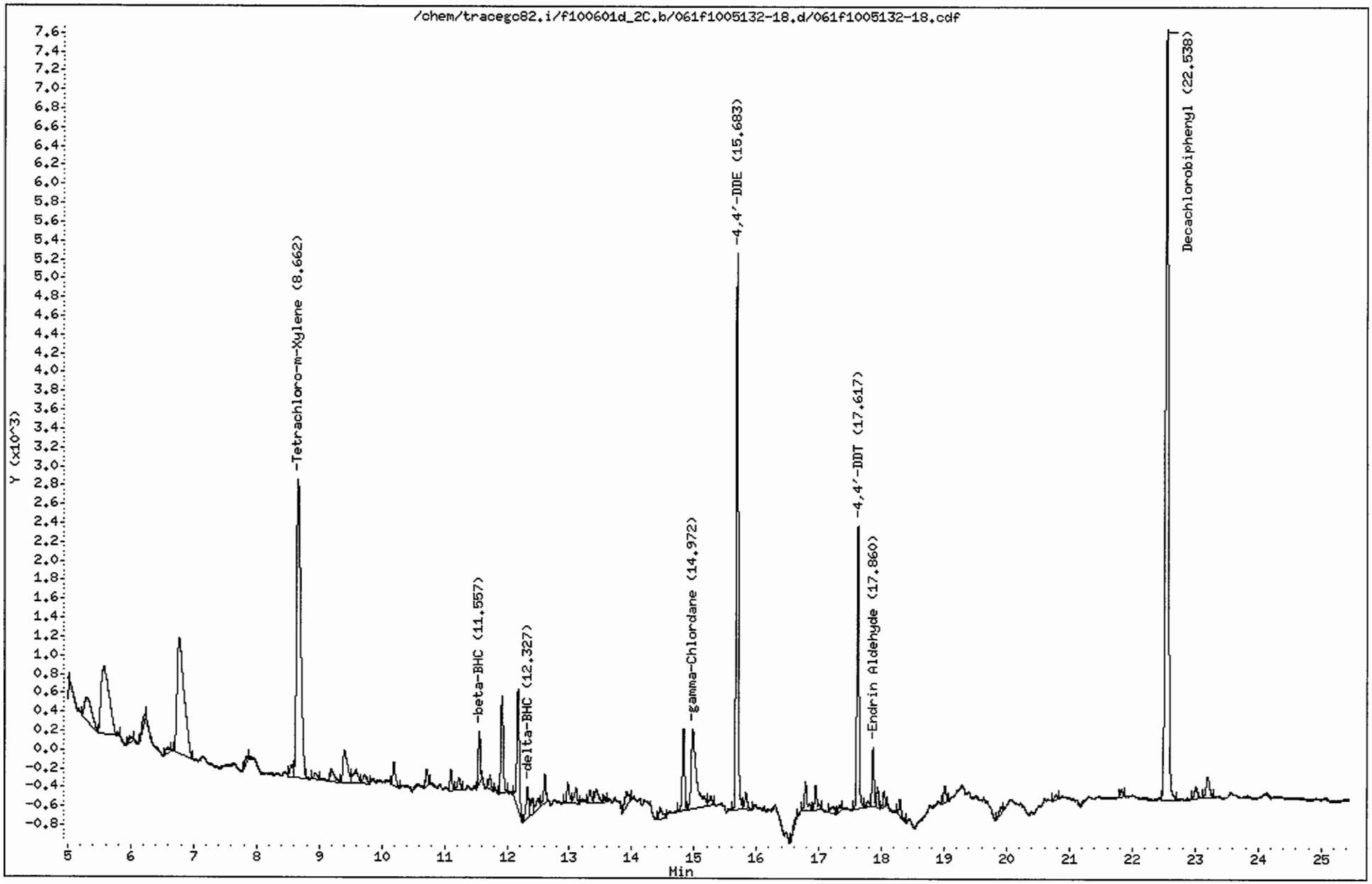
Sample Info: 1005132-18

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-18 Client Smp Id : SS71D-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:56 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SS71D-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			241								
1.52			140024								
2.09			621613								
3.52			59414								
3.99			8328								
4.71			789								
4.96			667								
5.30			1986								
5.58			6361								
5.99			259								
6.21			272								
6.59			229								
6.77			9524								
7.85			211								
8.56			487								
8.66	8.59	8.73	14746	548876	Tetrachloro-m-Xylene	0.026866	4.920479		44.8*	70 - 125	R
8.94			245								
9.20			632								
9.40			1787								
9.59			769								
9.72			395								
10.19			738								
10.71			449								
11.10			527								
11.23			405								
11.56	11.50	11.64	1224	347428	beta-BHC	0.003520	0.644718	0.935165			J
11.73			391								
11.92			2670								
12.18			3493								
12.33	12.22	12.36	1065	827595	delta-BHC	0.001286	0.235468	1.868132			J
12.39			477								
12.50			507								
12.61			754								
12.97			600								
13.10			538								
13.33			359								
13.43			612								

6/3/10

CompuChem

Lab Smp Id : 1005132-18 Client Smp Id : SS71D-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 20:56 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SS71D-0-1

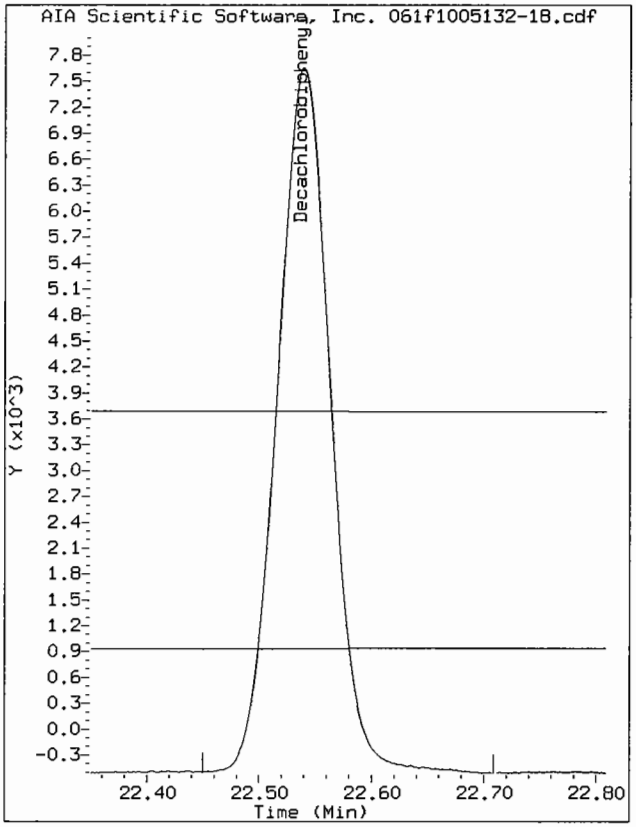
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 9(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.56		133								
13.91		705								
14.46		448								
14.83		2214								
14.97	14.88 15.02	4744	690205	gamma-Chlordane	0.006873	1.258850	1.868132			J
15.26		285								
15.68	15.61 15.75	13566	617325	4,4'-DDE	0.021975	4.024809	3.626374			
15.83		539								
16.65		238								
16.78		898								
16.94		710								
17.17		356								
17.34		203								
17.62	17.55 17.69	7013	503765	4,4'-DDT	0.013921	2.549665	3.626374			J
17.77		194								
17.86	17.81 17.95	1450	425754	Endrin Aldehyde	0.003403	0.623329	3.626374			J
17.93		476								
18.04		364								
18.30		472								
19.01		563								
19.89		230								
20.78		148								
21.82		203								
22.54	22.47 22.61	27056	497254	Decachlorobiphenyl	0.054411	9.965342		45.3*	55 - 130	RM
23.01		474								
23.19		885								

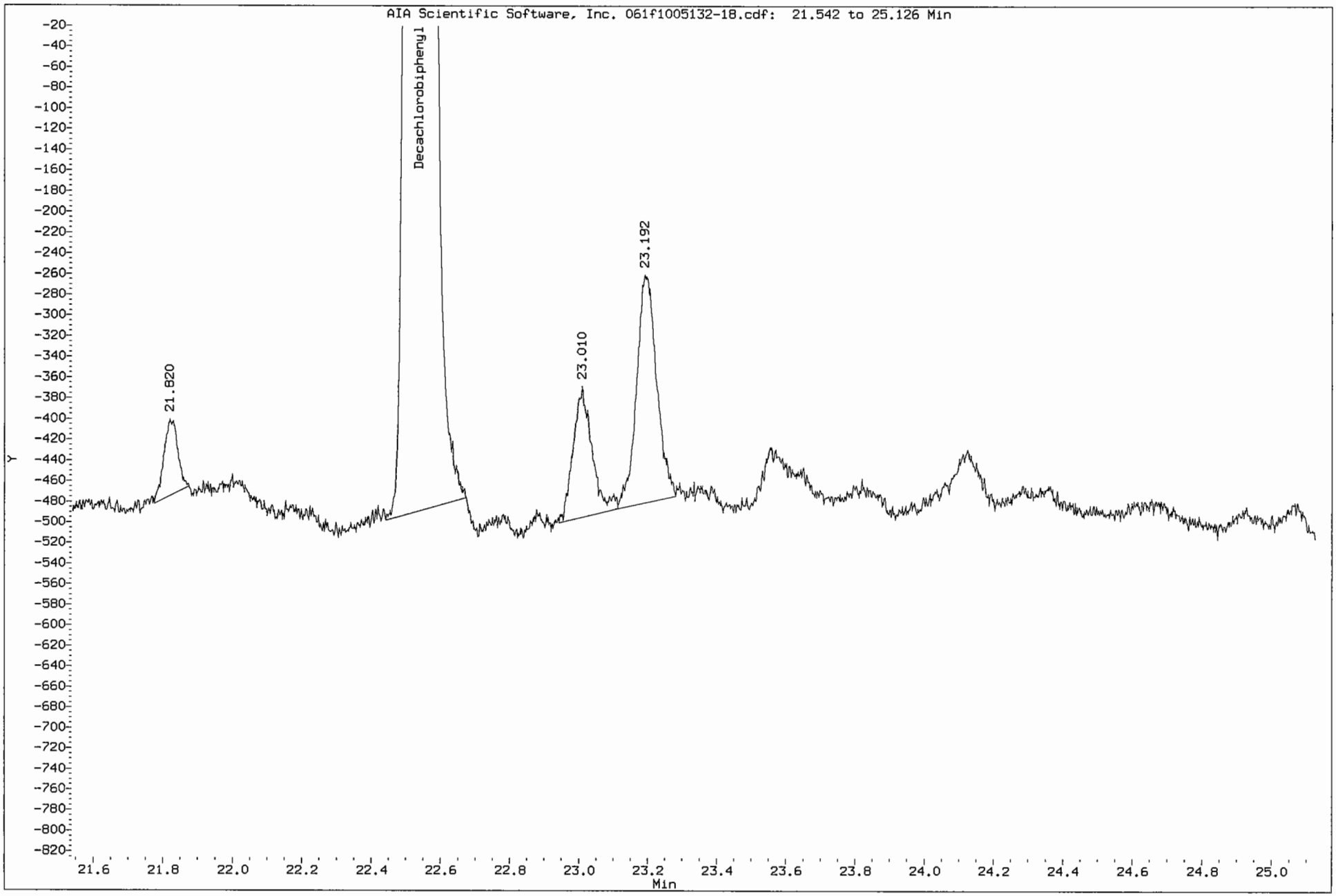
6/3/10

Manually Integrated Peaks



Start: 22.45 Stop: 22.71

Data File: /chem/tracegc82.i/f100601d_2C.b/061f1005132-18.d/061f1005132-18.cdf
Injection Date: 02-JUN-2010 20:56
Instrument: tracegc82.i
Client Sample ID: SS71D-0-1



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS74-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	0.35	JP
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	1.1	J
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	1.7	J
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	0.32	JP
5103-71-9	alpha-Chlordane	0.36	J

Data File: /chem/tracegc82.i/f100601b.b/036f1005132-10.d

Date : 02-JUN-2010 08:48

Client ID: SS74-0-1

Instrument: tracegc82.i

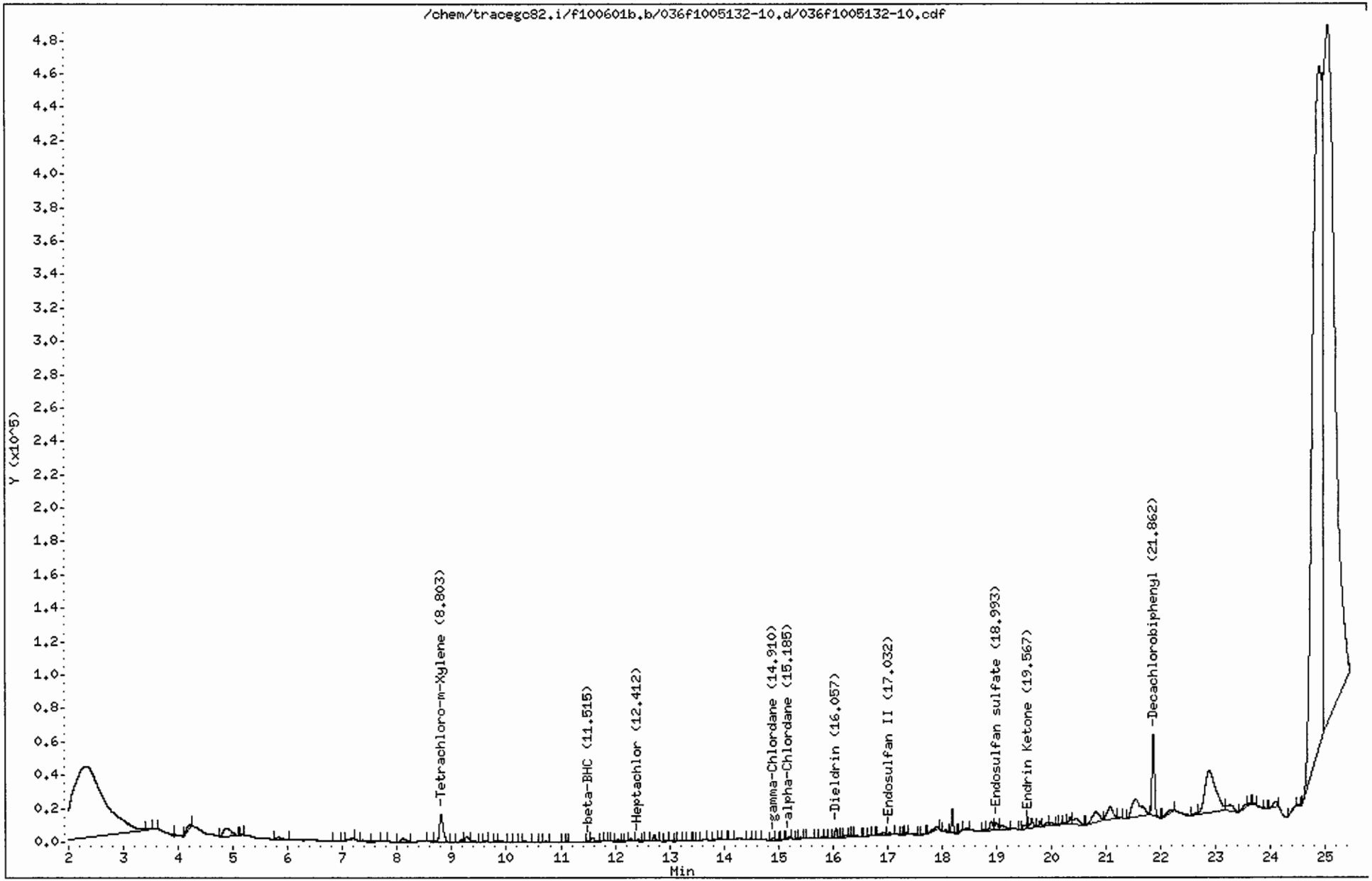
Sample Info: 1005132-10

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-10 Client Smp Id : SS74-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:48 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS74-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.38		1538								
1.48		36990								
2.32		1689833								
3.47		866								
3.62		5486								
4.20		14373								
4.88		44946								
5.17		686								
5.83		11534								
6.88		1052								
7.17		3096								
7.37		2927								
7.66		2232								
7.74		1999								
8.11		12236								
8.61		2394								
8.80	8.73 8.87	77893	1587700	Tetrachloro-m-Xylene	0.049060	8.429495		81.8	70 - 125	
9.17		4612								
9.27		14517								
9.37		3703								
9.60		541								
9.80		1058								
9.90		2262								
10.05		622								
10.28		975								
10.35		2362								
10.53		779								
10.72		1645								
11.05		683								
11.11		795								
11.52	11.41 11.55	2124	1035150	beta-BHC	0.002052	0.352556	0.877320			J
11.59		8966								
11.76		2169								
11.82		1577								
11.94		620								
12.05		2616								
12.14		440								

6/2/10

CompuChem

Lab Smp Id : 1005132-10 Client Smp Id : SS74-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:48 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS74-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.20		1313								
12.29		5427								
12.41	12.38 12.52	4153	2589888	Heptachlor	0.001604	0.275523	1.752577			J
12.52		467								
12.72		11124								
12.95		1581								
13.14		636								
13.18		1736								
13.34		327								
13.46		301								
13.53		494								
13.64		1657								
13.85		1851								
13.91		3069								
14.00		1701								
14.15		1133								
14.47		593								
14.62		1391								
14.91	14.84 14.98	4197	2245768	gamma-Chlordane	0.001869	0.321139	1.752577			JM2
14.97		1310								
15.09		296								
15.18	15.15 15.29	4079	1924148	alpha-Chlordane	0.002119	0.364155	1.752577			J
15.34		1134								
15.40		2911								
15.48		693								
15.71		582								
15.79		2994								
15.87		1133								
16.06	15.99 16.13	16461	2037205	Dieldrin	0.008080	1.388349	3.402062			J
16.16		1086								
16.23		3852								
16.29		1866								
16.36		2836								
16.43		3781								
16.57		388								
16.65		2073								
16.74		1087								

JM2 6/2/10

CompuChem

Lab Smp Id : 1005132-10 Client Smp Id : SS74-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:48 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS74-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.93		10142								
17.03	17.01 17.15	3602	1759840	Endosulfan II	0.002046	0.351582	3.402062			J
17.26		316								
17.34		2171								
17.48		4862								
17.68		955								
17.89		10861								
18.06		2656								
18.19		34030								
18.38		1242								
18.43		2254								
18.78		1515								
18.91		21490								
18.99	18.89 19.03	16031	1574194	Endosulfan sulfate	0.010183	1.749655	3.402062			J
19.10		15512								
19.42		295								
19.50		8378								
19.57	19.49 19.63	4550	1849761	Endrin Ketone	0.002459	0.422549	3.402062			J
19.64		21009								
19.79		8997								
19.92		8563								
20.00		8932								
20.11		1411								
20.17		2977								
20.25		3277								
20.34		13222								
20.45		23902								
20.81		52831								
21.07		54634								
21.24		1456								
21.54		134688								
21.86	21.79 21.93	157794	1622138	Decachlorobiphenyl	0.097275	16.71397		81.1	55 - 130	
22.20		14741								
22.67		4227								
22.87		345645								
23.26		31325								
23.57		8171								

CompuChem

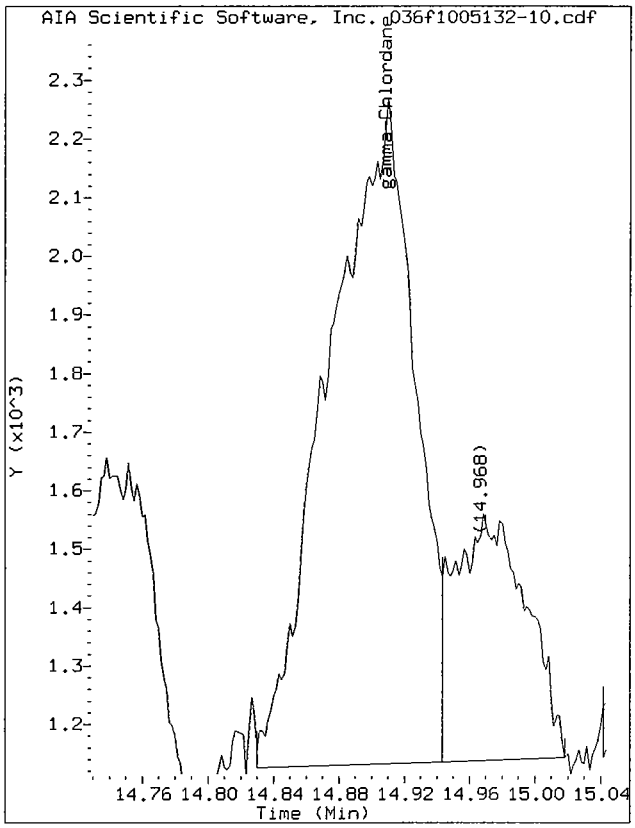
Lab Smp Id : 1005132-10 Client Smp Id : SS74-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:48 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS74-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

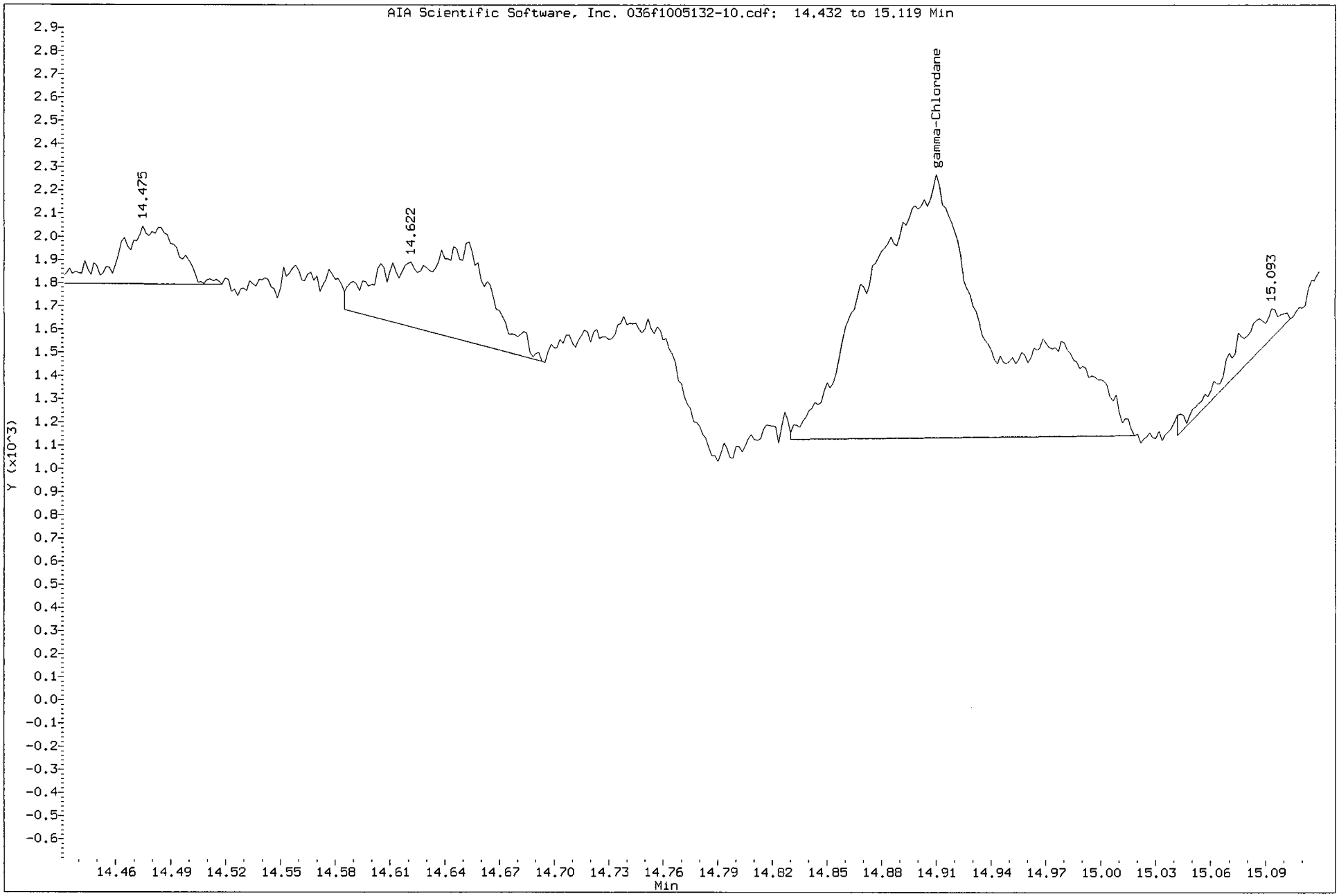
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.62		4349								
23.66		1034								
23.68		3596								
23.89		787								
24.09		14489								
24.47		5910								
24.49		956								
24.90		4869638								
25.05		6056361								

Manually Integrated Peaks



Start: 14.83 Stop: 14.94

Data File: /chem/tracegc82.i/f100601b.b/036f1005132-10.d/036f1005132-10.cdf
Injection Date: 02-JUN-2010 08:48
Instrument: tracegc82.i
Client Sample ID: SS74-0-1



Data File: /chem/tracegc82.i/f100601b_2C.b/036f1005132-10.d

Date : 02-JUN-2010 08:48

Client ID: SS74-0-1

Instrument: tracegc82.i

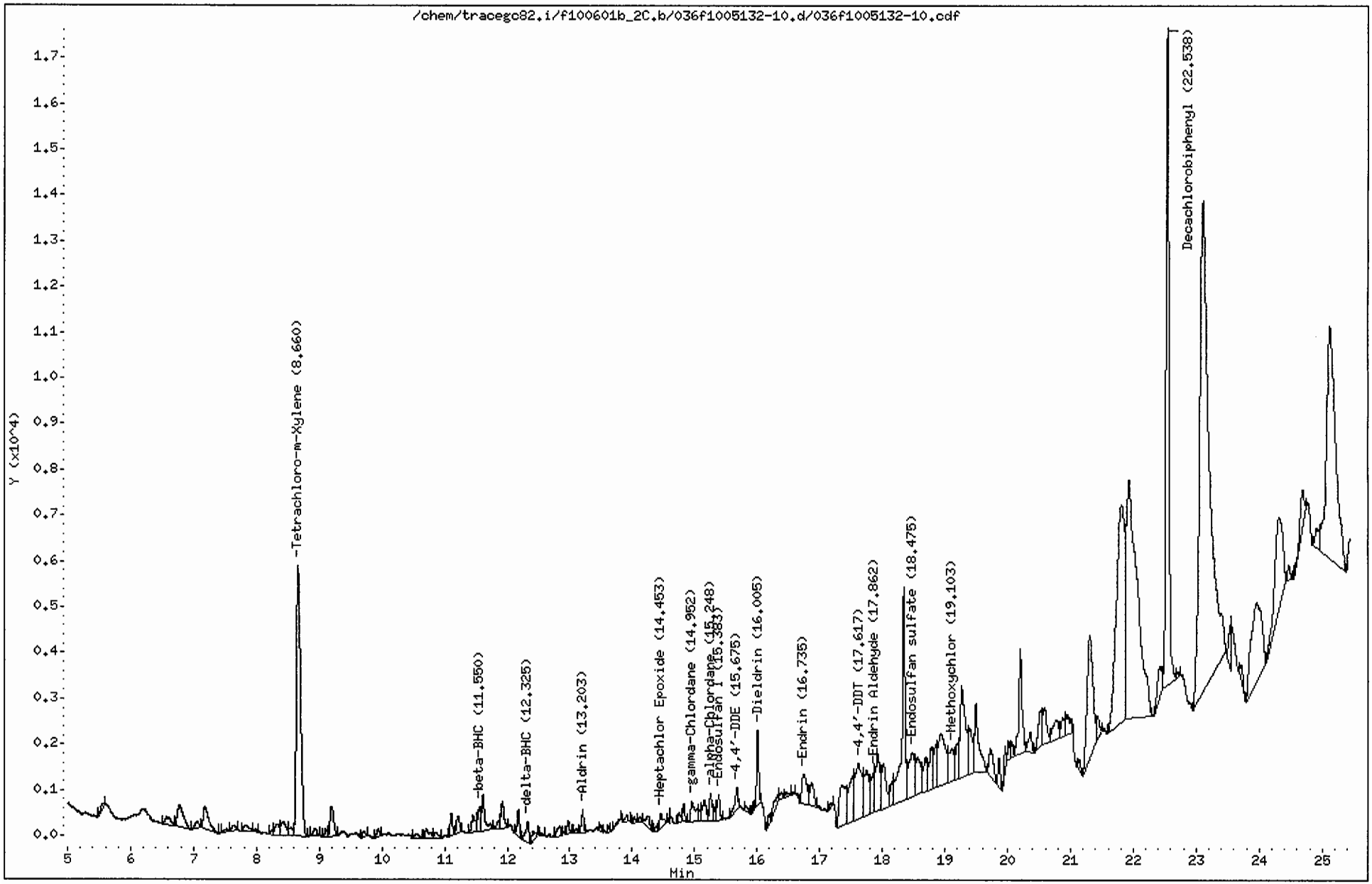
Sample Info: 1005132-10

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-10 Client Smp Id : SS74-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:48 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS74-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			371								
2.08			706112								
3.12			158								
3.51			23639								
4.35			2903								
5.56			491								
6.57			987								
6.78			3215								
7.05			714								
7.18			2928								
7.53			178								
7.64			499								
7.83			773								
7.99			177								
8.25			246								
8.34			1131								
8.42			1649								
8.54			722								
8.66	8.59	8.73	27493	548876	Tetrachloro-m-Xylene	0.050088	8.606154		83.5	70 - 125	
8.93			624								
9.10			504								
9.20			2613								
9.71			391								
9.94			470								
10.55			426								
10.71			917								
10.86			577								
11.11			1258								
11.22			1354								
11.45			1520								
11.55	11.50	11.64	1789	347428	beta-BHC	0.005149	0.884755	0.877320			
11.61			2947								
11.86			485								
11.92			2096								
12.18			1452								
12.32	12.22	12.36	1702	827595	delta-BHC	0.002055	0.353153	1.752577			J
12.41			696								

6/2/10

CompuChem

Lab Smp Id : 1005132-10 Client Smp Id : SS74-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:48 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS74-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.55		133								
12.84		925								
12.97		706								
13.10		219								
13.20	13.10 13.24	1304	726628	Aldrin	0.001795	0.308349	1.752577			J
13.49		242								
13.62		251								
13.79		263								
13.91		411								
14.03		297								
14.12		373								
14.25		1072								
14.38		222								
14.45	14.45 14.59	1178	683115	Heptachlor Epoxide	0.001723	0.296046	1.752577			J
14.61		290								
14.75		639								
14.82		965								
14.95	14.88 15.02	2400	690205	gamma-Chlordane	0.003477	0.597462	1.752577			J
15.08		530								
15.16		1907								
15.25	15.21 15.35	1794	595455	alpha-Chlordane	0.003013	0.517667	1.752577			J
15.33		489								
15.38	15.33 15.47	1726	638725	Endosulfan I	0.002701	0.464037	1.752577			J
15.68	15.61 15.75	1690	617325	4,4'-DDE	0.002738	0.470381	3.402062			J
15.82		409								
15.94		343								
16.00	15.94 16.08	3703	598394	Dieldrin	0.006189	1.063414	3.402062			JM2
16.18		612								
16.33		1191								
16.38		419								
16.46		405								
16.57		145								
16.74	16.60 16.74	3759	524785	Endrin	0.007161	1.230417	3.402062			J
16.87		2302								
17.18		226								
17.35		6622								
17.52		5443								

6/2/10

CompuChem

Lab Smp Id : 1005132-10 Client Smp Id : SS74-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:48 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS74-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.62	17.55 17.69	9135	503765	4,4'-DDT	0.018131	3.115373	3.402062			J
17.75		5525								
17.86	17.81 17.95	4067	425754	Endrin Aldehyde	0.009552	1.641318	3.402062			J
17.93		5932								
18.02		4907								
18.16		1535								
18.34		17754								
18.48	18.40 18.54	6668	479624	Endosulfan sulfate	0.013903	2.388757	3.402062			J
18.55		4703								
18.68		3152								
18.78		3644								
18.85		3412								
18.94		9172								
19.10	19.03 19.17	4413	208391	Methoxychlor	0.021177	3.638580	17.52577			J
19.19		2823								
19.27		11680								
19.40		4487								
19.49		7461								
19.72		2875								
19.86		1532								
19.95		1031								
20.01		908								
20.07		798								
20.20		8397								
20.36		1721								
20.53		3468								
20.58		3287								
20.77		2903								
20.87		1641								
20.95		2397								
21.14		627								
21.30		16762								
21.43		1591								
21.81		42588								
21.93		64737								
22.43		3646								
22.54	22.47 22.61	46370	497254	Decachlorobiphenyl	0.093252	16.02269		77.7	55 - 130	

CompuChem

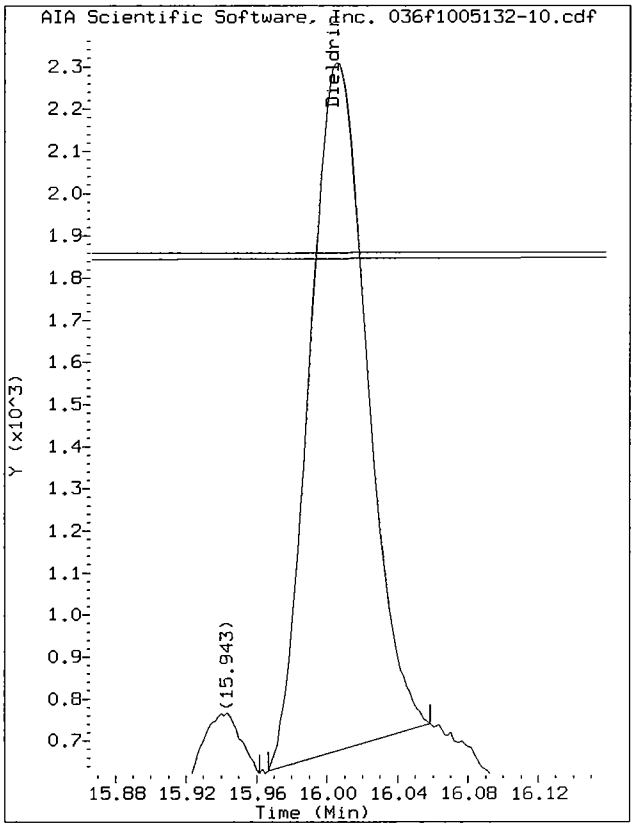
Lab Smp Id : 1005132-10 Client Smp Id : SS74-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 08:48 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS74-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

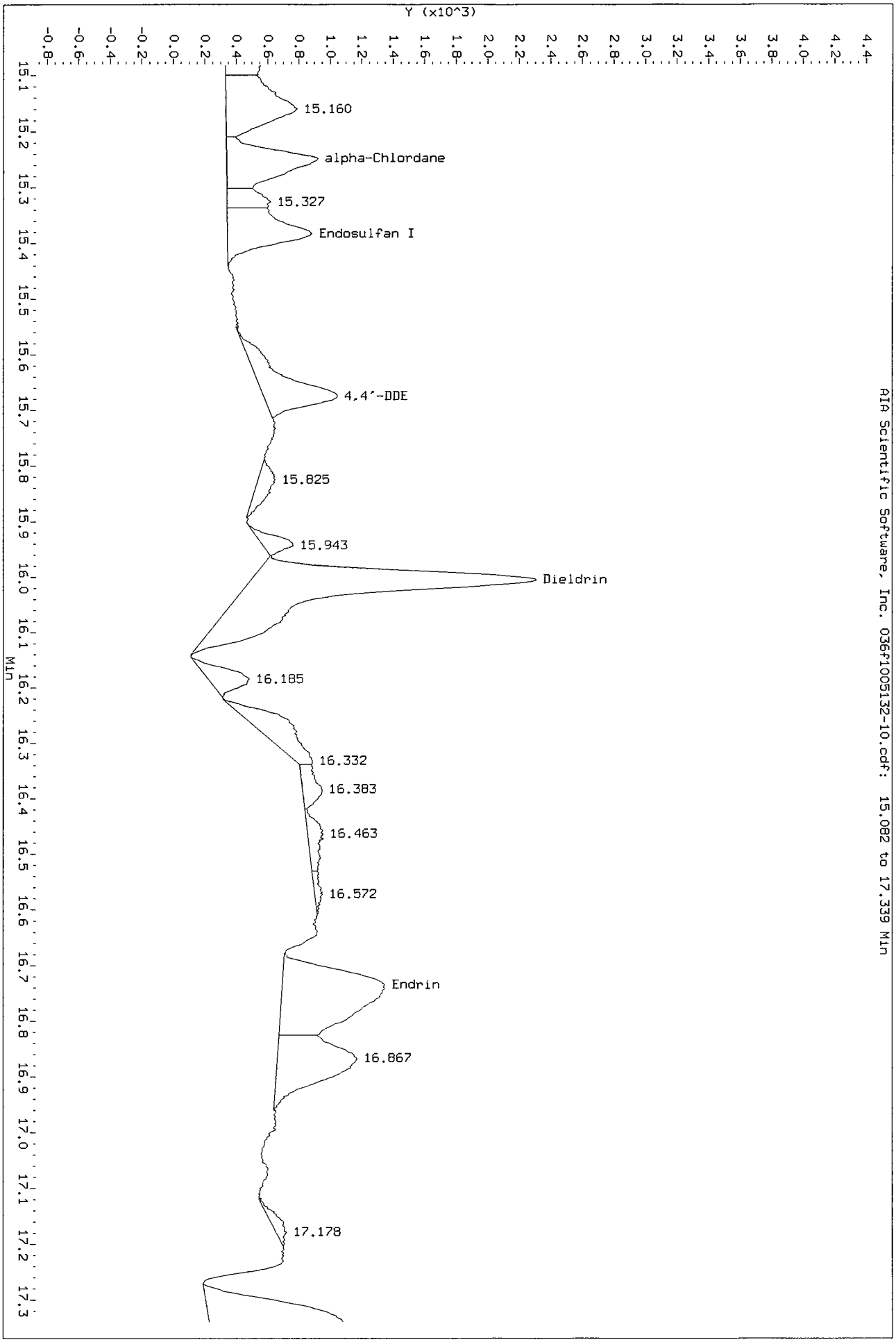
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.70		306								
23.10		114566								
23.54		1989								
23.71		1348								
23.95		20340								
24.31		18104								
24.46		897								
24.69		3455								
24.90		2024								
25.12		51591								

Manually Integrated Peaks



Start: 15.97 Stop: 16.06


Data File: /chem/tracegc82.i/f100601b_2C.b/036f1005132-10.d/036f1005132-10.cdf
Injection Date: 02-JUN-2010 08:48
Instrument: tracegc82.i
Client Sample ID: SS74-0-1
Y (x10^3)
15.160
alpha-Chlordane
15.327
Endosulfan I
4,4'-DDE
15.825
15.943
Dieldrin
16.185
16.332
16.383
16.463
16.572
Endrin
16.867
17.178
Min
AIA Scientific Software, Inc. 036f1005132-10.cdf: 15.082 to 17.339 Min

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS77-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.2	U
319-85-7	beta-BHC	0.66	J
319-84-6	alpha-BHC	0.27	J
319-86-8	delta-BHC	0.34	JP
58-89-9	gamma-BHC (Lindane)	2.2	U
72-54-8	4,4'-DDD	4.3	U
72-55-9	4,4'-DDE	1.3	J
50-29-3	4,4'-DDT	2.7	J
60-57-1	Dieldrin	1.0	JP
959-98-8	Endosulfan I	2.2	U
33213-65-9	Endosulfan II	4.3	U
1031-07-8	Endosulfan sulfate	4.3	U
72-20-8	Endrin	4.3	U
7421-93-4	Endrin Aldehyde	4.3	U
76-44-8	Heptachlor	2.2	U
1024-57-3	Heptachlor Epoxide	2.2	U
72-43-5	Methoxychlor	22	U
8001-35-2	Toxaphene	110	U
53494-70-5	Endrin Ketone	4.3	U
5103-74-2	gamma-Chlordane	0.87	JP
5103-71-9	alpha-Chlordane	2.2	U

Data File: /chem/tracegc82.i/f100601b.b/029f1005132-03.d

Date : 02-JUN-2010 05:24

Client ID: SS77-0-1

Instrument: tracegc82.i

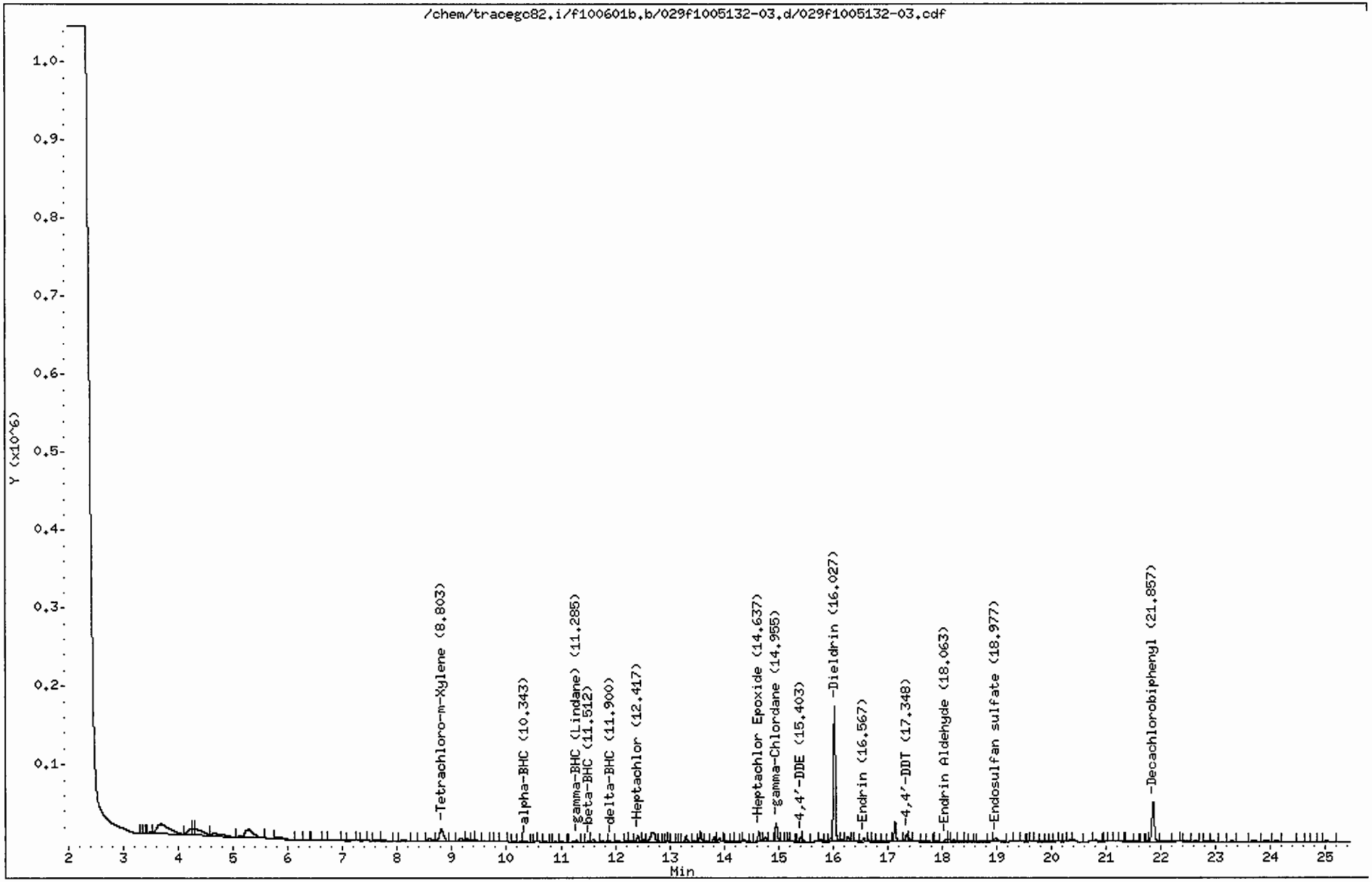
Sample Info: 1005132-03

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-03 Client Smp Id : SS77-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:24 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS77-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.04		413								
1.41		7771761								
3.33		472								
3.36		671								
3.42		784								
3.49		6491								
3.69		213568								
4.22		43989								
4.26		15142								
4.32		80669								
4.66		51805								
5.27		121133								
5.83		27872								
6.33		1840								
6.41		299								
6.67		603								
6.81		8392								
7.19		2672								
7.38		1581								
7.62		8860								
7.74		6618								
8.11		10193								
8.29		1628								
8.58		17736								
8.80	8.73 8.87	82431	1587700	Tetrachloro-m-Xylene	0.051918	11.23764		86.5	70 - 125	
9.17		18407								
9.27		15302								
9.38		10439								
9.45		8617								
9.59		2716								
9.82		3129								
9.90		1500								
10.15		2317								
10.27		1976								
10.34	10.32 10.46	3816	3028788	alpha-BHC	0.001260	0.272708	2.207792			J
10.54		594								
10.72		3035								

6/2/10

CompuChem

Lab Smp Id : 1005132-03 Client Smp Id : SS77-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:24 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS77-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.81		603								
10.88		2575								
11.02		3618								
11.12		302								
11.28	11.16 11.30	12349	2817265	gamma-BHC (Lindane)	0.004383	0.948773	2.207792			J
11.39		961								
11.51	11.41 11.55	3160	1035150	beta-BHC	0.003052	0.660548	1.105195			J
11.60		14675								
11.76		6520								
11.90	11.85 11.99	4216	2721052	delta-BHC	0.001549	0.335289	2.207792			J
12.04		6926								
12.21		3087								
12.28		6606								
12.42	12.38 12.52	24722	2589888	Heptachlor	0.009546	2.066145	2.207792			J
12.52		11812								
12.70		77595								
12.81		2545								
12.94		899								
13.08		1228								
13.14		314								
13.30		21152								
13.46		2244								
13.57		30218								
13.67		3793								
13.82		16305								
13.91		11064								
14.05		3349								
14.15		1024								
14.21		3496								
14.32		419								
14.36		6332								
14.47		1051								
14.64	14.56 14.70	34626	2235460	Heptachlor Epoxide	0.015489	3.352594	2.207792			
14.76		15139								
14.85		5549								
14.96	14.84 14.98	67439	2245768	gamma-Chlordane	0.030029	6.499769	2.207792			
15.05		3248								

CompuChem

Lab Smp Id : 1005132-03 Client Smp Id : SS77-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:24 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS77-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.13		2444								
15.18		3538								
15.24		1448								
15.40	15.34 15.48	14207	2012896	4,4'-DDE	0.007058	1.527736	4.285714			JM
15.44		6045								
15.69		3974								
15.79		8489								
15.86		2840								
15.95		9260								
16.03	15.99 16.13	440436	2037205	Dieldrin	0.216196	46.79561	4.285714			E
16.17		3865								
16.27		13717								
16.35		759								
16.42		1683								
16.57	16.51 16.65	9010	1695798	Endrin	0.005313	1.150029	4.285714			J
16.64		2724								
16.72		745								
16.82		1387								
16.93		4049								
17.02		1729								
17.14		59695								
17.35	17.27 17.41	23554	1722489	4,4'-DDT	0.013674	2.959827	4.285714			J
17.40		6082								
17.65		1939								
17.76		2586								
17.85		331								
17.90		2183								
18.06	17.93 18.07	9388	1371845	Endrin Aldehyde	0.006843	1.481242	4.285714			J
18.13		8128								
18.21		8770								
18.36		5074								
18.42		3218								
18.52		1250								
18.60		1074								
18.71		5379								
18.90		4093								
18.98	18.89 19.03	20960	1574194	Endosulfan sulfate	0.013314	2.881844	4.285714			J

JM 2nd #CH 6/2/10

CompuChem

Lab Smp Id : 1005132-03 Client Smp Id : SS77-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:24 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS77-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.28		1501								
19.35		5472								
19.47		2242								
19.59		1072								
19.62		1423								
19.71		1983								
19.82		1156								
19.90		401								
20.00		1028								
20.06		579								
20.16		758								
20.24		1334								
20.33		4873								
20.40		8635								
20.72		3431								
20.80		7071								
20.99		1199								
21.07		1103								
21.28		5054								
21.35		537								
21.42		4656								
21.54		724								
21.65		407								
21.77		505								
21.86	21.79 21.93	159695	1622138	Decachlorobiphenyl	0.098447	21.30892		82.0	55 - 130	
22.07		5022								
22.26		4242								
22.45		2157								
22.63		2391								
22.82		3018								
22.94		2536								
23.29		2109								
23.70		7193								
23.90		7930								
24.09		4691								
24.29		3362								
24.68		538								

CompuChem

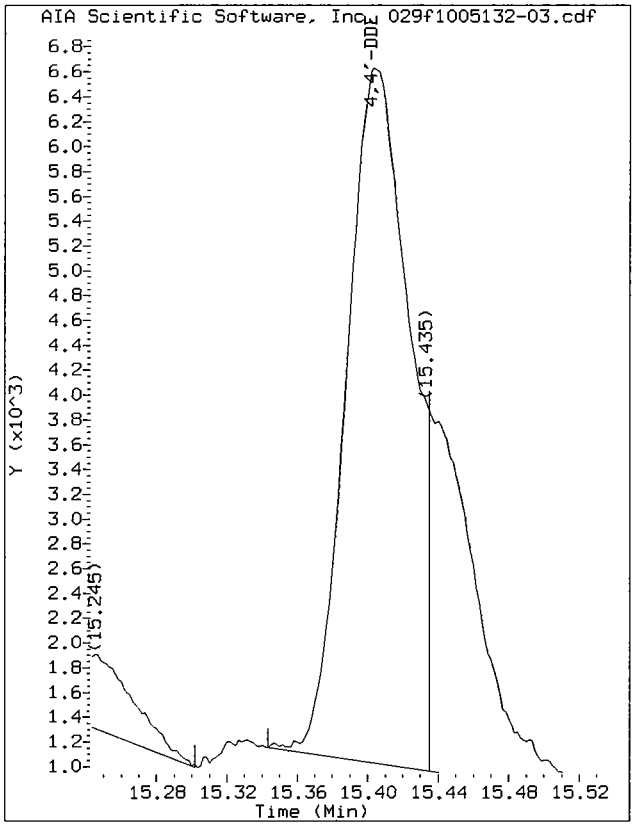
Lab Smp Id : 1005132-03 Client Smp Id : SS77-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:24 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS77-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

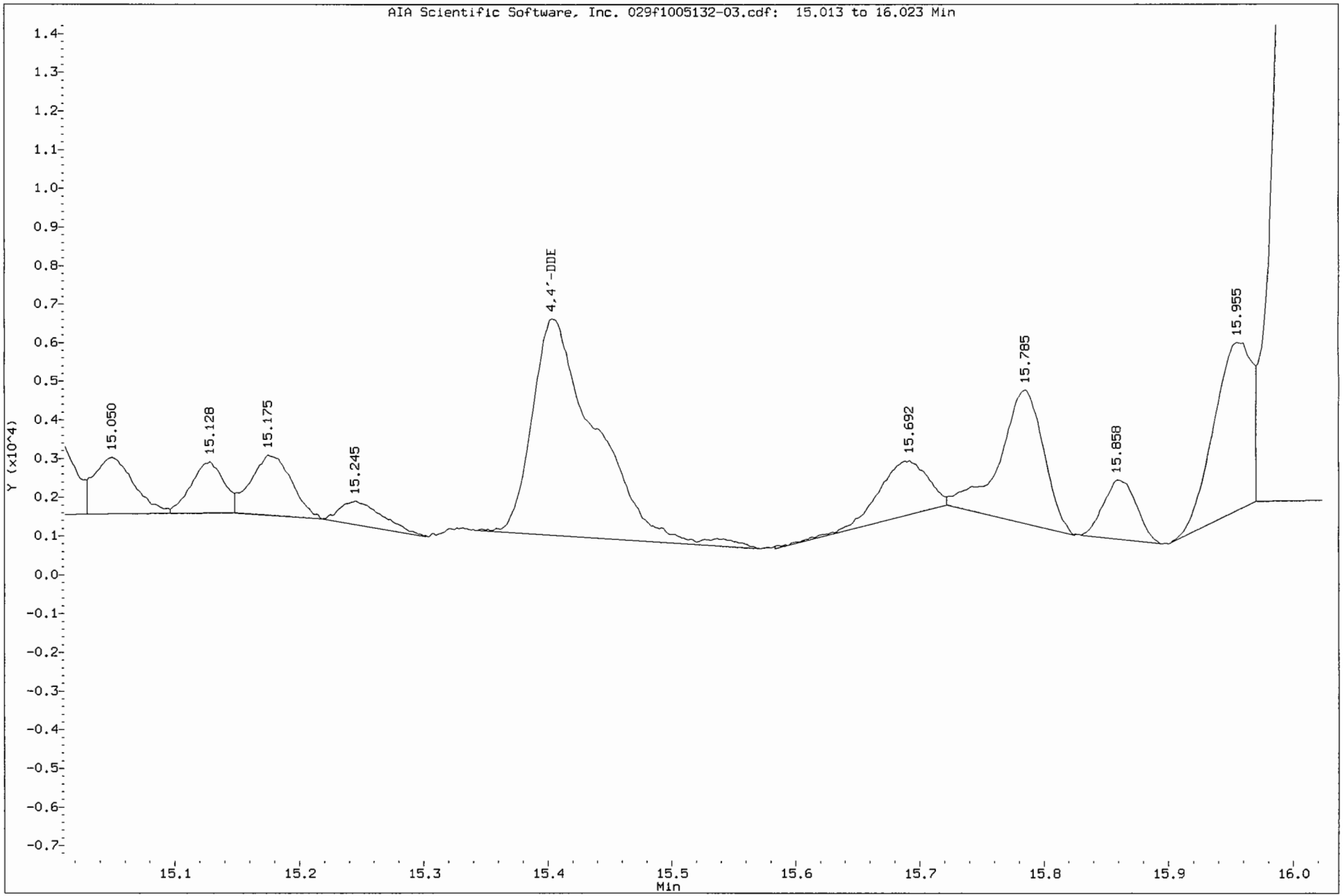
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.90		339								
25.02		3974								

Manually Integrated Peaks



Start: 15.34 Stop: 15.44

Data File: /chem/tracegc82.i/f100601b.b/029f1005132-03.d/029f1005132-03.cdf
Injection Date: 02-JUN-2010 05:24
Instrument: tracegc82.i
Client Sample ID: SS77-0-1



Data File: /chem/tracegc82.i/f100601b_2C.b/029f1005132-03.d

Page 1

Date : 02-JUN-2010 05:24

Client ID: SS77-0-1

Instrument: tracegc82.i

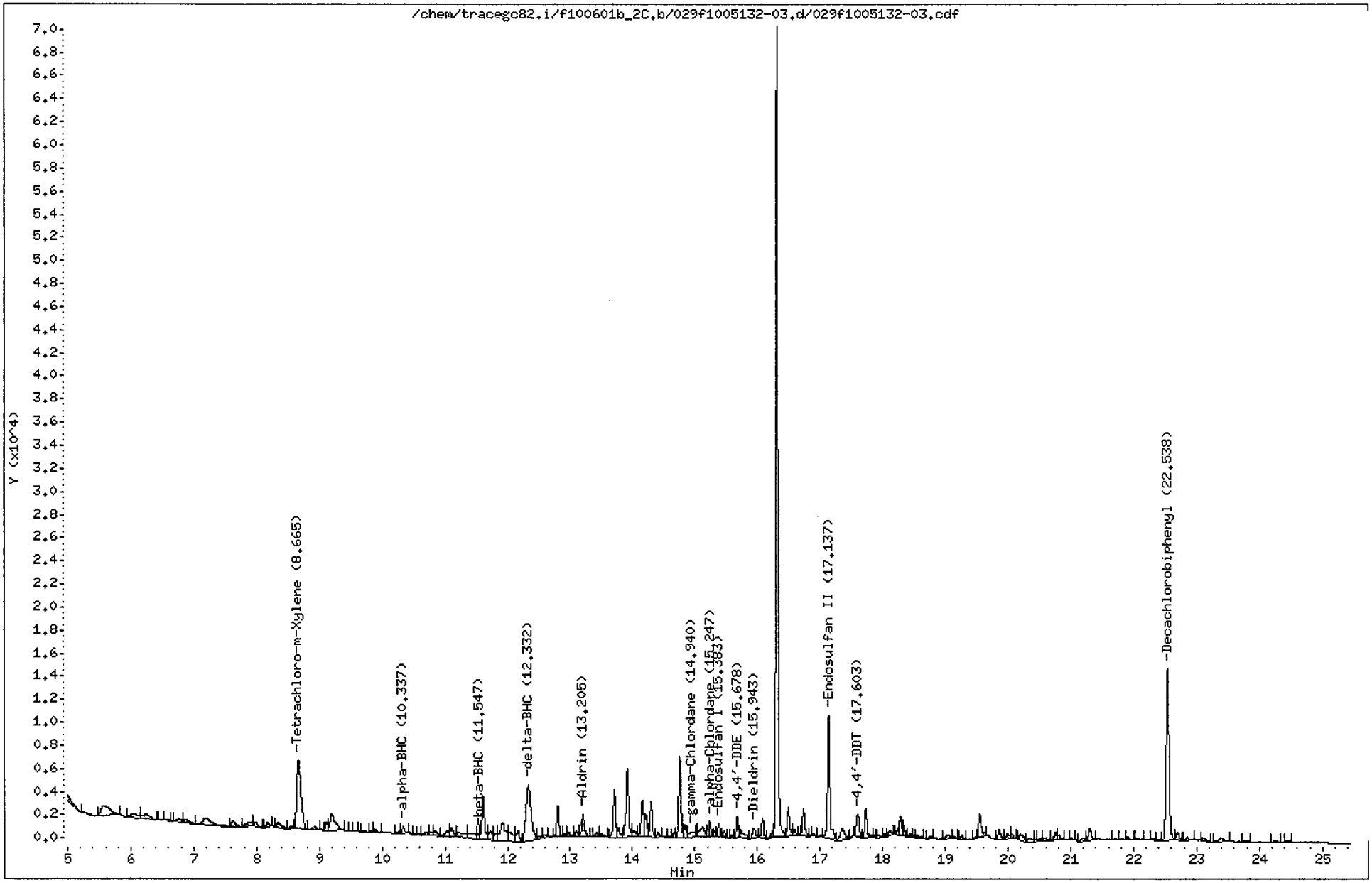
Sample Info: 1005132-03

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-03 Client Smp Id : SS77-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:24 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS77-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.41			63953021								
2.97			1250								
3.08			312								
3.13			3568								
3.48			60756								
4.25			30861								
4.84			32035								
5.58			8374								
6.03			2468								
6.24			2898								
6.46			218								
6.58			275								
6.76			1135								
6.87			1305								
7.18			5288								
7.63			2359								
7.89			1883								
7.97			1223								
8.17			1157								
8.34			1931								
8.54			478								
8.66	8.59	8.73	28527	548876	Tetrachloro-m-Xylene	0.051973	11.24967		86.6	70 - 125	
8.93			1279								
9.11			2161								
9.20			8132								
9.51			133								
9.58			146								
9.72			848								
9.83			392								
9.88			960								
10.26			413								
10.34	10.32	10.46	1346	916452	alpha-BHC	0.001468	0.317666	2.207792			J
10.51			137								
10.70			949								
10.78			994								
10.85			1446								
11.04			2120								

CompuChem

Lab Smp Id : 1005132-03 Client Smp Id : SS77-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:24 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS77-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.11		3131								
11.22		3142								
11.42		3695								
11.55	11.50 11.64	1213	347428	beta-BHC	0.003491	0.755709	1.105195			J
11.61		11127								
11.73		3077								
11.81		1921								
11.92		9565								
12.05		4730								
12.17		3089								
12.33	12.22 12.36	26773	827595	delta-BHC	0.032350	7.002243	2.207792			
12.50		695								
12.60		666								
12.80		6466								
12.91		562								
12.97		1413								
13.10		1409								
13.20	13.10 13.24	5438	726628	Aldrin	0.007483	1.619592	2.207792			J
13.42		793								
13.49		532								
13.71		10132								
13.78		2177								
13.92		17417								
14.02		2466								
14.16		8518								
14.21		4929								
14.29		7511								
14.41		1096								
14.60		169								
14.66		923								
14.76		17285								
14.85		2808								
14.94	14.88 15.02	2783	690205	gamma-Chlordane	0.004031	0.872443	2.207792			J
15.03		843								
15.12		4616								
15.21		1303								
15.25	15.21 15.35	2829	595455	alpha-Chlordane	0.004751	1.028353	2.207792			J

CompuChem

Lab Smp Id : 1005132-03 Client Smp Id : SS77-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:24 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS77-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.32		1065								
15.38	15.33 15.47	2283	638725	Endosulfan I	0.003574	0.773660	2.207792			J
15.47		1333								
15.59		442								
15.68	15.61 15.75	3705	617325	4,4'-DDE	0.006000	1.298719	4.285714			J
15.74		2720								
15.94	15.94 16.08	2916	598394	Dieldrin	0.004871	1.054410	4.285714			~~J~~ JJ
16.08		4276								
16.24		1113								
16.32		153968								
16.49		6730								
16.59		1334								
16.69		390								
16.73		5931								
16.85		137								
16.90		319								
17.01		301								
17.14	17.07 17.21	28574	526756	Endosulfan II	0.054243	11.74098	4.285714			
17.35		4620								
17.53		205								
17.60	17.55 17.69	6276	503765	4,4'-DDT	0.012456	2.696148	4.285714			J
17.73		6047								
17.86		190								
17.93		451								
18.03		548								
18.12		1268								
18.24		883								
18.28		4006								
18.33		1947								
18.45		378								
18.48		271								
18.55		725								
18.67		138								
18.75		680								
19.05		1778								
19.14		317								
19.26		1104								

CompuChem

Lab Smp Id : 1005132-03 Client Smp Id : SS77-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 05:24 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS77-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.34		177								
19.49		293								
19.55		5846								
19.86		2575								
19.99		1310								
20.07		1120								
20.20		2415								
20.35		1637								
20.43		660								
20.50		985								
20.59		1039								
20.75		1993								
20.80		1392								
21.01		383								
21.20		1126								
21.30		3559								
21.70		314								
21.82		402								
21.91		650								
22.06		707								
22.30		473								
22.39		142								
22.54	22.47 22.61	47781	497254	Decachlorobiphenyl	0.096088	20.79819		80.1	55 - 130	
22.70		2106								
22.86		993								
23.12		830								
23.40		1783								
23.80		422								
24.25		366								
24.46		379								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS77-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 23 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	11	U
319-85-7	beta-BHC	11	U
319-84-6	alpha-BHC	11	U
319-86-8	delta-BHC	11	U
58-89-9	gamma-BHC (Lindane)	11	U
72-54-8	4,4'-DDD	21	U
72-55-9	4,4'-DDE	21	U
50-29-3	4,4'-DDT	21	U
60-57-1	Dieldrin	21	U
959-98-8	Endosulfan I	11	U
33213-65-9	Endosulfan II	8.1	DJ
1031-07-8	Endosulfan sulfate	21	U
72-20-8	Endrin	21	U
7421-93-4	Endrin Aldehyde	21	U
76-44-8	Heptachlor	11	U
1024-57-3	Heptachlor Epoxide	11	U
72-43-5	Methoxychlor	110	U
8001-35-2	Toxaphene	540	U
53494-70-5	Endrin Ketone	21	U
5103-74-2	gamma-Chlordane	11	U
5103-71-9	alpha-Chlordane	11	U

Data File: /chem/tracegc82.i/f100601g.b/095f1005132-03.d

Date : 03-JUN-2010 15:45

Client ID: SS77-0-1DL

Instrument: tracegc82.i

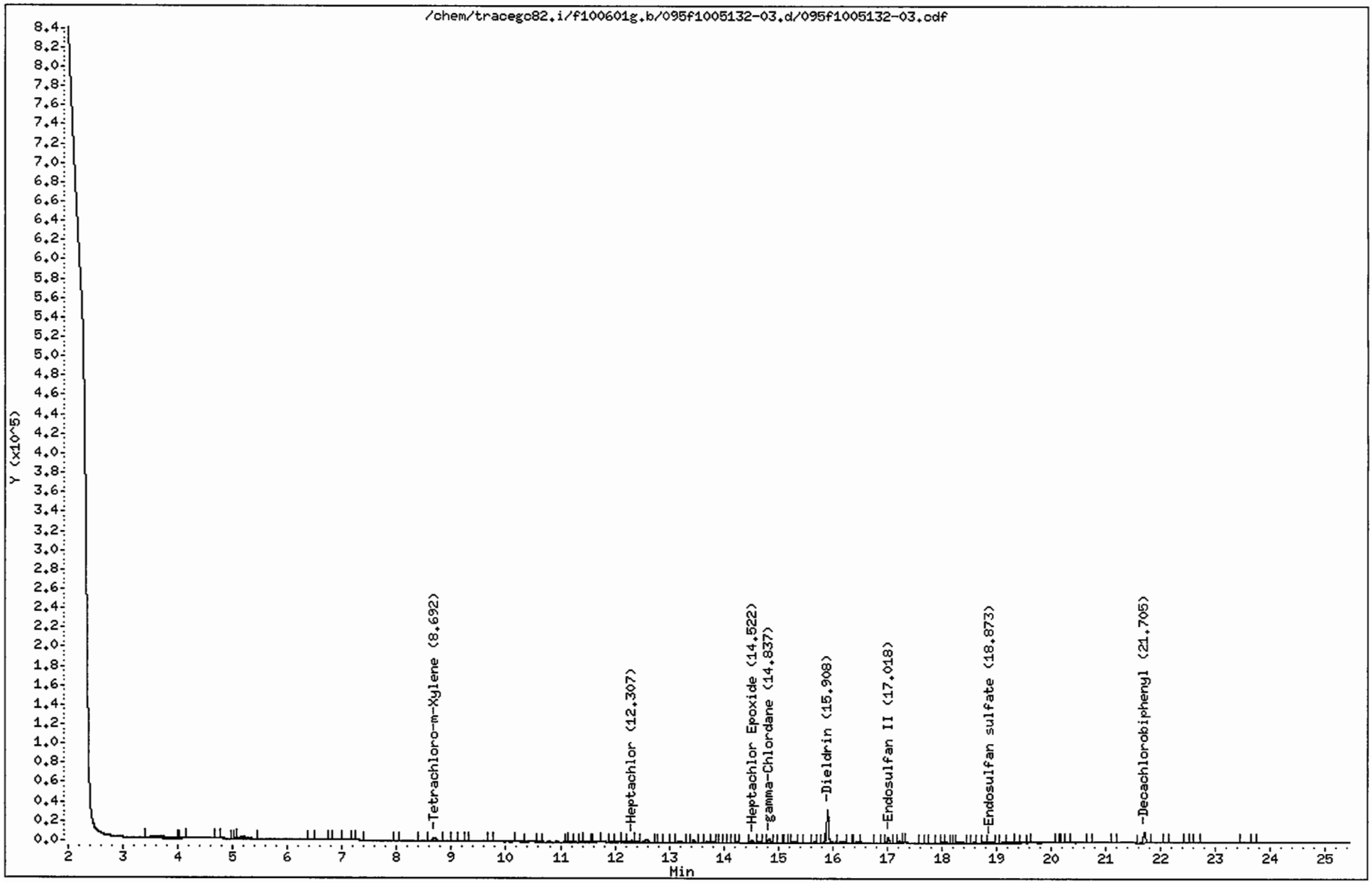
Sample Info: 1005132-03RE1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-03RE1 Client Smp Id : SS77-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 15:45 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS77-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.40		7189431								
3.58		36161								
4.12		1444								
4.72		753								
5.01		544								
5.08		1600								
5.17		21627								
6.42		393								
6.77		284								
7.07		2526								
7.24		1016								
7.27		2808								
8.00		725								
8.47		1887								
8.69	8.63 8.77	15675	1587700	Tetrachloro-m-Xylene	0.009872	10.68414		82.3	70 - 125	
9.06		1498								
9.16		2118								
9.27		865								
9.71		521								
10.24		2613								
10.60		383								
11.13		437								
11.18		1275								
11.39		780								
11.48		2710								
11.64		811								
11.93		1101								
12.16		1209								
12.31	12.27 12.41	4704	2589888	Heptachlor	0.001816	1.965687	11.03896			J
12.40		1735								
12.59		12856								
12.84		396								
13.03		392								
13.20		3731								
13.35		405								
13.45		6054								
13.55		941								

CompuChem

Lab Smp Id : 1005132-03RE1 Client Smp Id : SS77-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 15:45 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS77-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.71		3372								
13.80		2255								
13.94		672								
14.09		368								
14.25		1008								
14.52	14.44 14.58	6563	2235460	Heptachlor Epoxide	0.002935	3.176855	11.03896			J
14.65		3226								
14.76		1304								
14.84	14.73 14.87	11958	2245768	gamma-Chlordane	0.005325	5.762644	11.03896			J
14.93		843								
15.02		1206								
15.13		547								
15.29		3309								
15.56		1778								
15.67		2326								
15.75		524								
15.84		1063								
15.91	15.87 16.01	84786	2037205	Dieldrin	0.041618	45.04145	21.42857			
16.16		4162								
16.30		495								
16.45		1262								
16.81		1429								
17.02	16.89 17.03	13178	1759840	Endosulfan II	0.007488	8.104092	21.42857			J
17.23		5003								
17.29		1694								
17.65		1164								
17.73		989								
17.77		2076								
17.93		1446								
18.01		2068								
18.09		1387								
18.25		381								
18.34		4718								
18.48		301								
18.59		947								
18.78		518								
18.87	18.77 18.91	3311	1574194	Endosulfan sulfate	0.002103	2.275610	21.42857			J

CompuChem

Lab Smp Id : 1005132-03RE1 Client Smp Id : SS77-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 15:45 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS77-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.03		292								
19.22		1246								
19.36		440								
19.59		368								
20.12		354								
20.21		617								
20.27		807								
20.68		613								
21.16		792								
21.70	21.64 21.78	35432	1622138	Decachlorobiphenyl	0.021843	23.63936		91.0	55 - 130	
22.10		445								
22.47		573								
22.67		587								
23.51		1136								
23.70		391								

Data File: /chem/tracegc82.i/f100601g_2C.b/095f1005132-03.d

Date : 03-JUN-2010 15:45

Client ID: SS77-0-1DL

Instrument: tracegc82.i

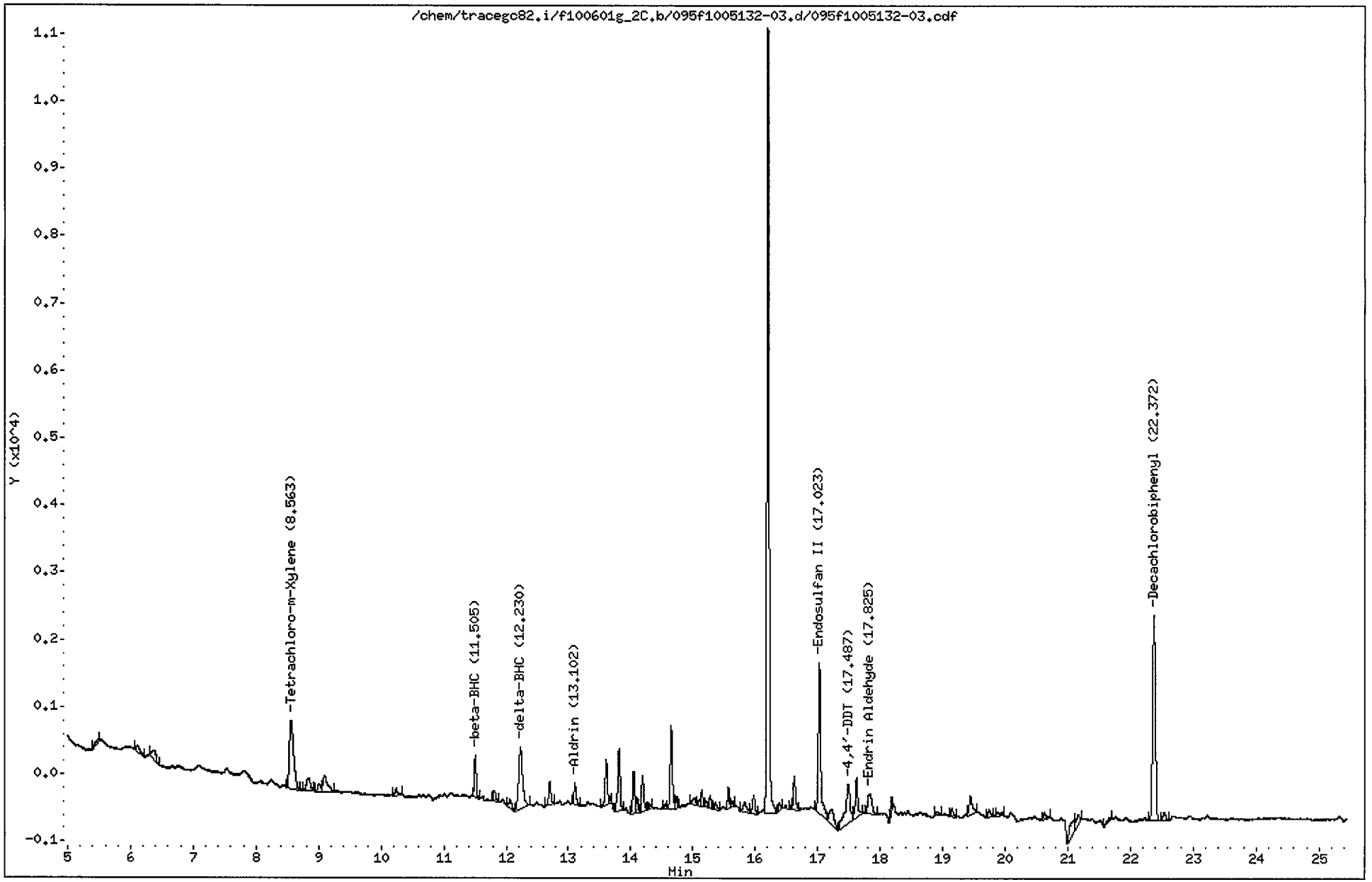
Sample Info: 1005132-03RE1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-03RE1 Client Smp Id : SS77-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 15:45 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS77-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.05			228								
1.45			45688085								
3.39			453								
4.76			578								
5.48			220								
6.11			329								
6.37			685								
8.56	8.49	8.63	4694	548876	Tetrachloro-m-Xylene	0.008550	9.253464		71.3	70 - 125	
8.83			774								
9.00			356								
9.09			1294								
10.24			306								
11.50	11.40	11.54	1362	347428	beta-BHC	0.003920	4.242687	5.525974			J
11.81			471								
12.06			371								
12.23	12.11	12.25	4184	827595	delta-BHC	0.005056	5.471443	11.03896			J
12.70			894								
13.10	12.99	13.13	761	726628	Aldrin	0.001046	1.131957	11.03896			J
13.61			1799								
13.81			2413								
14.05			1474								
14.11			461								
14.19			1276								
14.30			132								
14.56			159								
14.65			3076								
14.74			397								
15.02			353								
15.10			165								
15.14			480								
15.21			192								
15.28			360								
15.36			260								
15.57			617								
15.63			167								
15.82			598								
15.97			746								

CompuChem

Lab Smp Id : 1005132-03RE1 Client Smp Id : SS77-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 15:45 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS77-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 23(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.20		27647								
16.38		289								
16.57		124								
16.62		1221								
17.02	16.95 17.09	6048	526756	Endosulfan II	0.011482	12.42596	21.42857			J
17.22		1163								
17.49	17.44 17.58	3253	503765	4,4'-DDT	0.006455	6.986354	21.42857			J
17.62		1581								
17.82	17.69 17.83	1467	425754	Endrin Aldehyde	0.003443	3.726521	21.42857			J
18.18		405								
18.92		135								
19.15		315								
19.44		1001								
19.74		277								
19.88		220								
20.63		329								
21.08		1064								
21.17		647								
21.68		219								
22.37	22.31 22.45	9395	497254	Decachlorobiphenyl	0.018894	20.44778		78.7	55 - 130	
22.55		396								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS79-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 4 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.21	JP
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	1.4	J
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	0.36	JP
1031-07-8	Endosulfan sulfate	2.5	JP
72-20-8	Endrin	0.64	JP
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	0.27	JP
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	0.17	JP

Data File: /chem/tracegc82.i/f100601b.b/031f1005132-05.d

Date : 02-JUN-2010 06:22

Client ID: SS79-0-1

Instrument: tracegc82.i

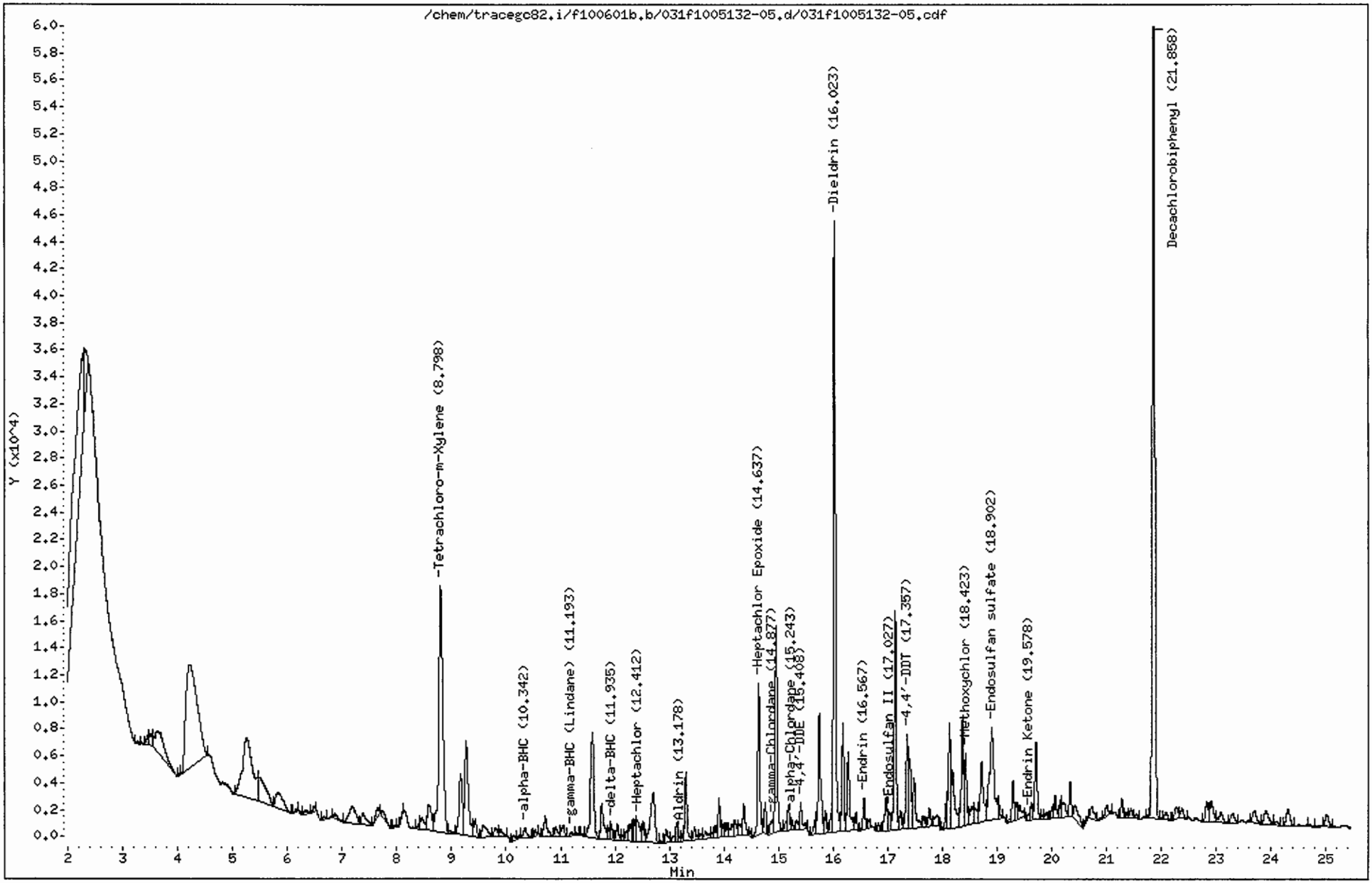
Sample Info: 1005132-05

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.50		105444								
1.69		3018								
1.73		2965								
1.77		1431								
2.28		92075								
2.30		17212								
3.27		540								
3.46		1990								
3.50		3668								
3.65		18525								
4.21		108668								
5.26		56422								
5.49		17798								
5.82		11336								
6.15		757								
6.33		1493								
6.48		1222								
6.67		783								
6.88		1854								
7.19		10854								
7.37		5057								
7.66		3354								
7.74		2540								
7.97		427								
8.11		774								
8.41		767								
8.46		4417								
8.59		10611								
8.80	8.73 8.87	93285	1587700	Tetrachloro-m-Xylene	0.058755	10.20050		97.9	70 - 125	
8.97		1057								
9.17		19519								
9.27		32809								
9.44		4788								
9.59		6084								
9.80		2763								
9.90		1926								
10.14		1109								

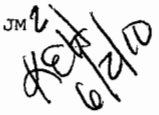
CompuChem

Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.23		743								
10.34	10.32 10.46	3111	3028788	alpha-BHC	0.001027	0.178309	1.770833			J
10.54		1031								
10.72		6581								
10.91		2486								
11.04		3110								
11.19	11.16 11.30	1066	2817265	gamma-BHC (Lindane)	0.000378	0.065663	1.770833			J
11.29		448								
11.39		404								
11.59		34836								
11.76		11105								
11.89		1894								
11.94	11.85 11.99	3307	2721052	delta-BHC	0.001215	0.211015	1.770833			J
12.04		3704								
12.13		1339								
12.21		2142								
12.28		3813								
12.32		2350								
12.37		3882								
12.41	12.38 12.52	7236	2589888	Heptachlor	0.002794	0.485086	1.770833			J
12.52		4490								
12.71		21875								
12.94		3606								
13.09		1665								
13.14		3474								
13.18	13.11 13.25	619	2391920	Aldrin	0.000259	0.044903	1.770833			JM
13.24		1357								
13.30		14055								
13.46		3030								
13.57		1262								
13.66		2786								
13.78		1010								
13.85		2413								
13.91		7663								
13.99		2237								
14.05		2496								
14.15		3839								



CompuChem

Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.21		3786								
14.29		2870								
14.36		7314								
14.47		673								
14.64	14.56 14.70	31361	2235460	Heptachlor Epoxide	0.014029	2.435585	1.770833			
14.76		6060								
14.88	14.84 14.98	3537	2245768	gamma-Chlordane	0.001575	0.273435	1.770833			J
14.96		42050								
15.08		498								
15.13		1494								
15.18		5035								
15.24	15.15 15.29	1940	1924148	alpha-Chlordane	0.001008	0.175005	1.770833			J
15.33		2037								
15.41	15.34 15.48	5657	2012896	4,4'-DDE	0.002811	0.487956	3.437500			J
15.67		3226								
15.74		28976								
15.86		4266								
15.96		3055								
16.02	15.99 16.13	121059	2037205	Dieldrin	0.059424	10.31670	3.437500			
16.18		20845								
16.27		18776								
16.42		3367								
16.57	16.51 16.65	6290	1695798	Endrin	0.003709	0.643933	3.437500			J
16.66		1113								
16.83		1590								
16.97		8682								
17.03	17.01 17.15	3607	1759840	Endosulfan II	0.002049	0.355792	3.437500			J
17.14		43831								
17.23		3757								
17.36	17.27 17.41	20021	1722489	4,4'-DDT	0.011623	2.017924	3.437500			J
17.41		14355								
17.48		13802								
17.66		2532								
17.77		4006								
17.89		4075								
18.08		5125								
18.13		22284								

CompuChem

Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.18		17260								
18.37		22275								
18.42	18.33 18.47	15271	731447	Methoxychlor	0.020877	3.624523	17.70833			J
18.54		5837								
18.60		4272								
18.72		19169								
18.90	18.89 19.03	39681	1574194	Endosulfan sulfate	0.025207	4.376287	3.437500			
19.03		2863								
19.22		615								
19.29		7685								
19.35		3237								
19.41		3898								
19.58	19.49 19.63	1092	1849761	Endrin Ketone	0.000591	0.102528	3.437500			J
19.63		3260								
19.71		17695								
19.82		720								
19.91		1621								
20.00		1968								
20.06		4460								
20.16		3336								
20.21		4797								
20.34		6679								
20.43		6380								
20.65		1239								
20.72		4405								
20.87		377								
21.00		3062								
21.28		3999								
21.36		1057								
21.45		2249								
21.54		1072								
21.76		544								
21.86	21.79 21.93	186178	1622138	Decachlorobiphenyl	0.114773	19.92594		95.6	55 - 130	
22.08		2140								
22.27		4074								
22.37		2920								
22.82		5717								

CompuChem

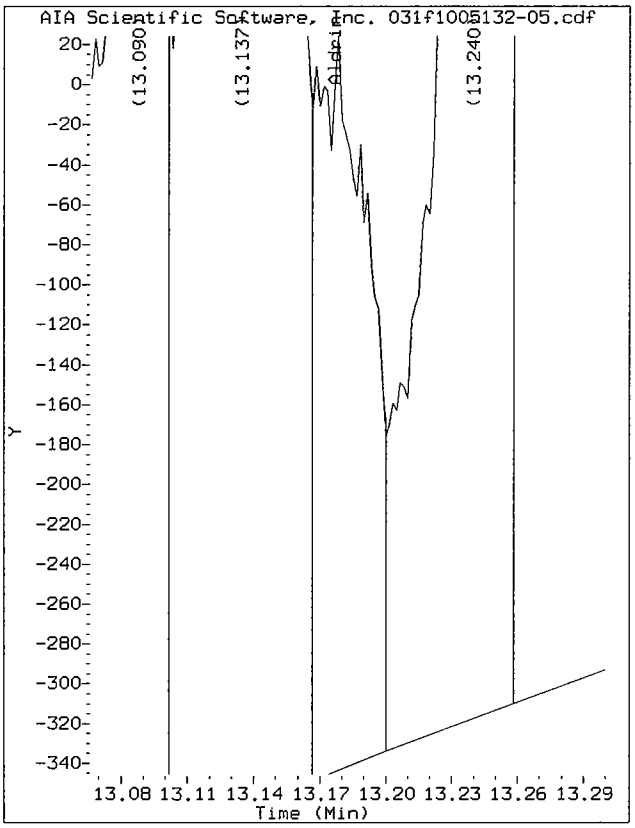
Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

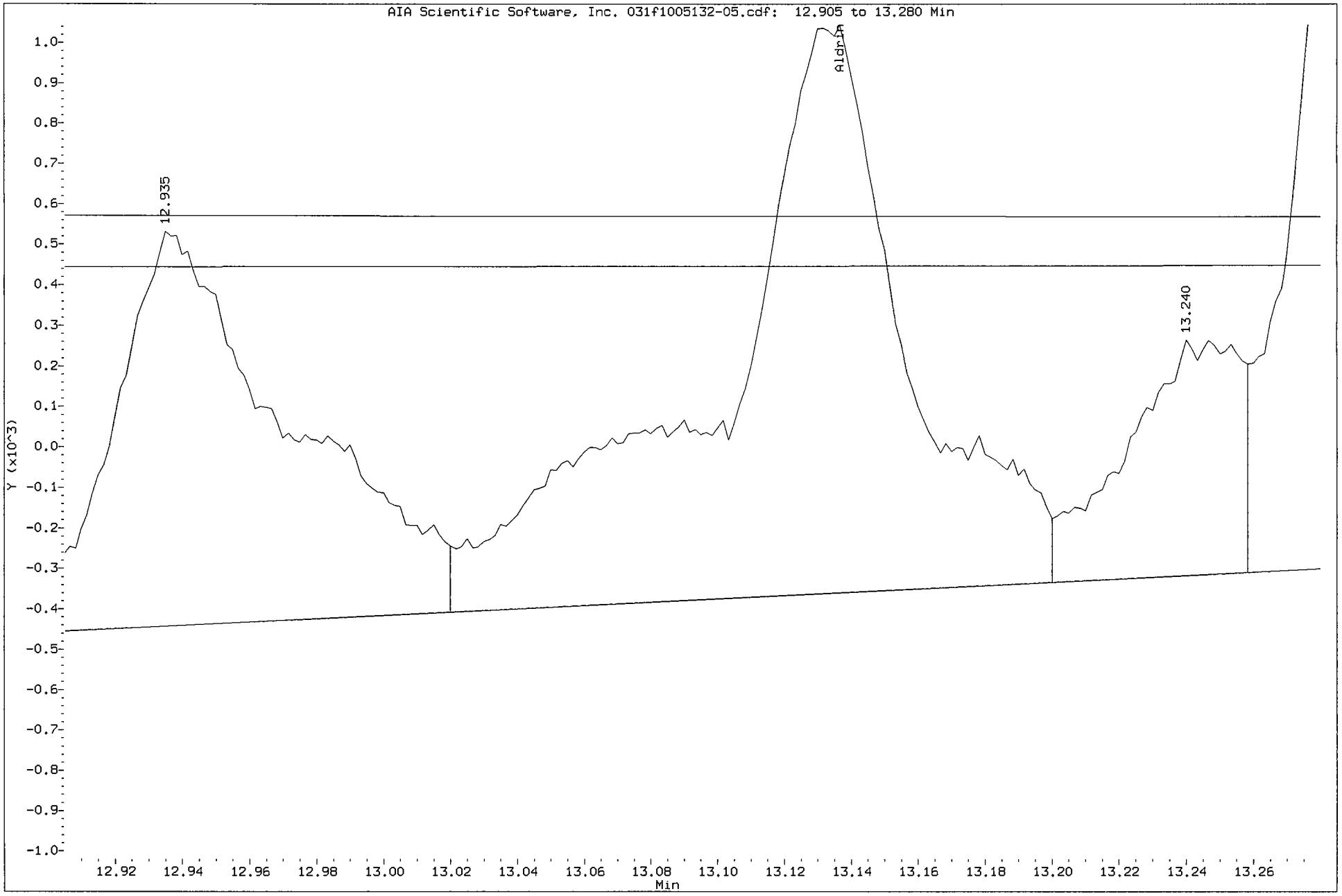
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.91		6829								
23.09		3851								
23.30		3614								
23.70		4067								
23.91		5856								
24.10		1193								
24.30		6154								
24.67		447								
25.02		4147								

Manually Integrated Peaks



Start: 13.17 Stop: 13.20

Data File: /chem/tracegc82.i/f100601b.b/031f1005132-05.d/031f1005132-05.cdf
Injection Date: 02-JUN-2010 06:22
Instrument: tracegc82.i
Client Sample ID: SS79-0-1



Data File: /chem/tracegc82.i/f100601b_2C.b/031f1005132-05.d

Date : 02-JUN-2010 06:22

Client ID: SS79-0-1

Instrument: tracegc82.i

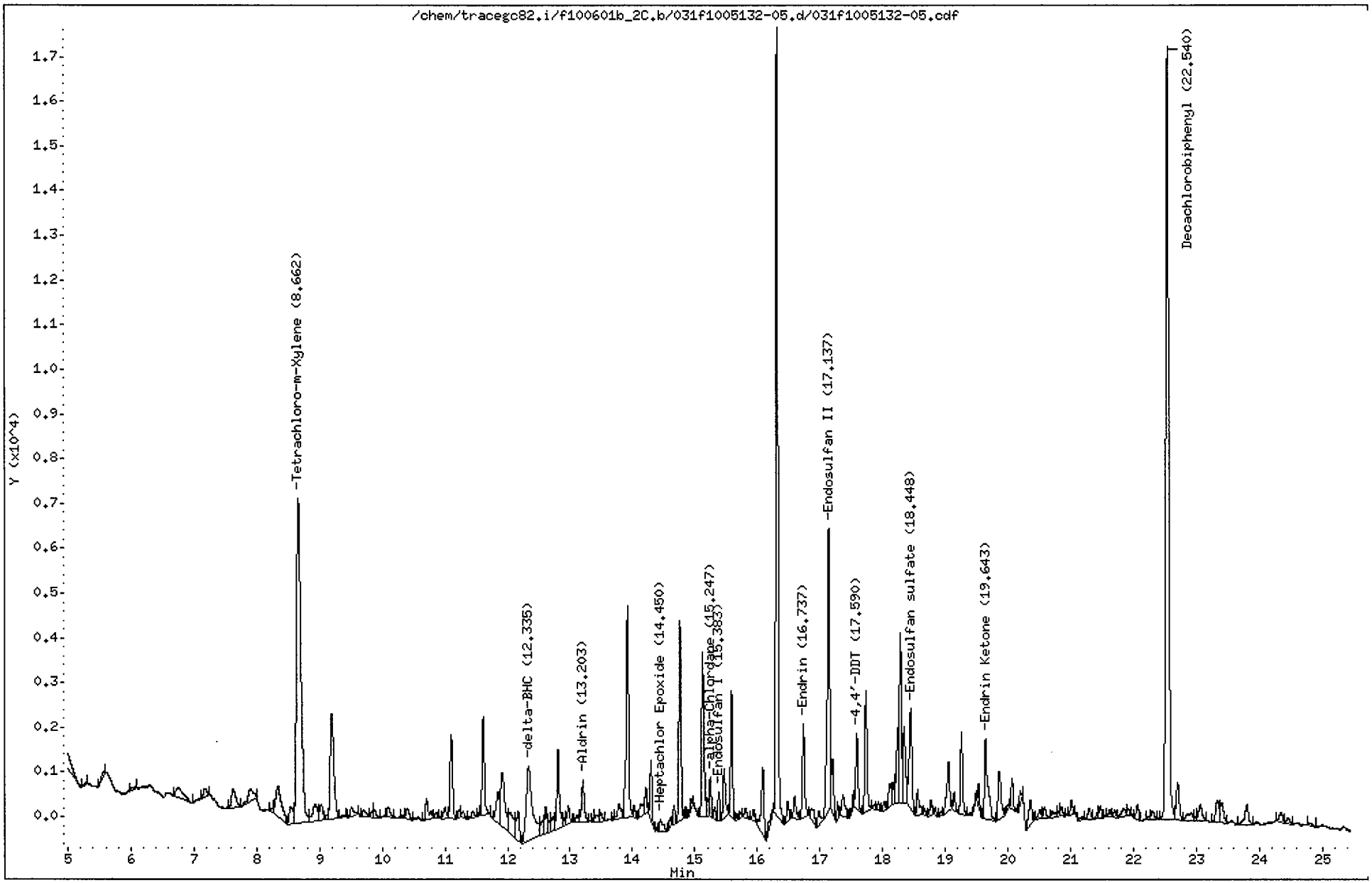
Sample Info: 1005132-05

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36		142								
1.53		124803								
2.07		564364								
3.13		15007								
3.51		21858								
3.95		1792								
4.70		1268								
4.82		16649								
5.29		151								
5.57		306								
6.07		180								
6.75		2023								
7.17		633								
7.63		2085								
7.91		1849								
8.24		185								
8.34		4613								
8.54		1593								
8.66	8.59 8.73	35711	548876	Tetrachloro-m-Xylene	0.065060	11.29518		108.4	70 - 125	
8.93		1977								
9.03		1362								
9.12		201								
9.19		9652								
9.37		179								
9.51		758								
9.70		632								
9.85		393								
9.87		468								
10.09		731								
10.33		122								
10.40		887								
10.71		1812								
10.86		321								
11.00		771								
11.10		5167								
11.22		400								
11.29		468								

CompuChem

Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.44		593								
11.54		147								
11.61		5531								
11.85		2428								
11.91		5892								
12.04		3077								
12.17		2373								
12.34	12.22 12.36	11560	827595	delta-BHC	0.013967	2.424822	1.770833			
12.55		915								
12.61		1916								
12.68		580								
12.72		1079								
12.80		5147								
12.92		388								
12.97		1122								
13.11		482								
13.20	13.10 13.24	2851	726628	Aldrin	0.003922	0.680943	1.770833			J
13.38		175								
13.42		550								
13.49		586								
13.71		172								
13.78		1281								
13.92		12664								
14.03		519								
14.13		1146								
14.21		1312								
14.29		2836								
14.45	14.45 14.59	1064	683115	Heptachlor Epoxide	0.001556	0.270157	1.770833			J
14.60		409								
14.66		882								
14.76		10448								
14.85		423								
14.94		444								
15.13		9341								
15.21		624								
15.25	15.21 15.35	1896	595455	alpha-Chlordane	0.003182	0.552507	1.770833			J
15.32		452								

CompuChem

Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.38	15.33 15.47	1279	638725	Endosulfan I	0.002001	0.347372	1.770833			J
15.47		2979								
15.59		5924								
15.68		209								
15.73		209								
15.81		647								
15.94		606								
16.09		4540								
16.19		351								
16.25		197								
16.31		40477								
16.49		1162								
16.60		1499								
16.74	16.60 16.74	5350	524785	Endrin	0.010193	1.769574	3.437500			J
16.86		1206								
16.98		827								
17.14	17.07 17.21	17196	526756	Endosulfan II	0.032645	5.667549	3.437500			
17.20		2820								
17.28		646								
17.37		1849								
17.53		698								
17.59	17.55 17.69	4204	503765	4,4'-DDT	0.008345	1.448813	3.437500			J
17.73		6774								
17.86		203								
17.93		390								
18.03		497								
18.11		1702								
18.19		1247								
18.24		3424								
18.28		9442								
18.34		4871								
18.45	18.40 18.54	6893	479624	Endosulfan sulfate	0.014370	2.494722	3.437500			J
18.56		1640								
18.67		238								
18.77		813								
18.84		307								
18.93		176								

CompuChem

Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.05		3521								
19.14		876								
19.26		4389								
19.39		159								
19.49		352								
19.53		928								
19.64	19.55 19.69	6685	535815	Endrin Ketone	0.012476	2.166028	3.437500			J
19.86		3746								
20.00		269								
20.07		1639								
20.20		658								
20.36		1950								
20.51		557								
20.59		631								
20.71		475								
20.81		245								
20.86		532								
21.01		744								
21.19		267								
21.30		737								
21.42		263								
21.48		762								
21.62		391								
21.71		383								
21.85		755								
21.91		386								
22.06		920								
22.24		176								
22.30		636								
22.54	22.47 22.61	55830	497254	Decachlorobiphenyl	0.112277	19.49245		93.6	55 - 130	
22.70		2929								
22.86		1109								
23.01		182								
23.07		1390								
23.34		1692								
23.40		1796								
23.80		1904								

CompuChem

Lab Smp Id : 1005132-05 Client Smp Id : SS79-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 06:22 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS79-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 4(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.34		889								
24.46		504								
24.81		219								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS81-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 05/21/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.4	U
72-55-9	4,4'-DDE	3.4	U
50-29-3	4,4'-DDT	3.4	U
60-57-1	Dieldrin	3.4	U
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.4	U
1031-07-8	Endosulfan sulfate	3.4	U
72-20-8	Endrin	3.4	U
7421-93-4	Endrin Aldehyde	3.4	U
76-44-8	Heptachlor	1.8	U
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	86	U
53494-70-5	Endrin Ketone	3.4	U
5103-74-2	gamma-Chlordane	0.23	JBP
5103-71-9	alpha-Chlordane	1.8	U

Data File: /chem/tracegc82.i/f100601d.b/058f1005132-15.d

Page 1

Date : 02-JUN-2010 19:29

Client ID: SS81-0-1

Instrument: tracegc82.i

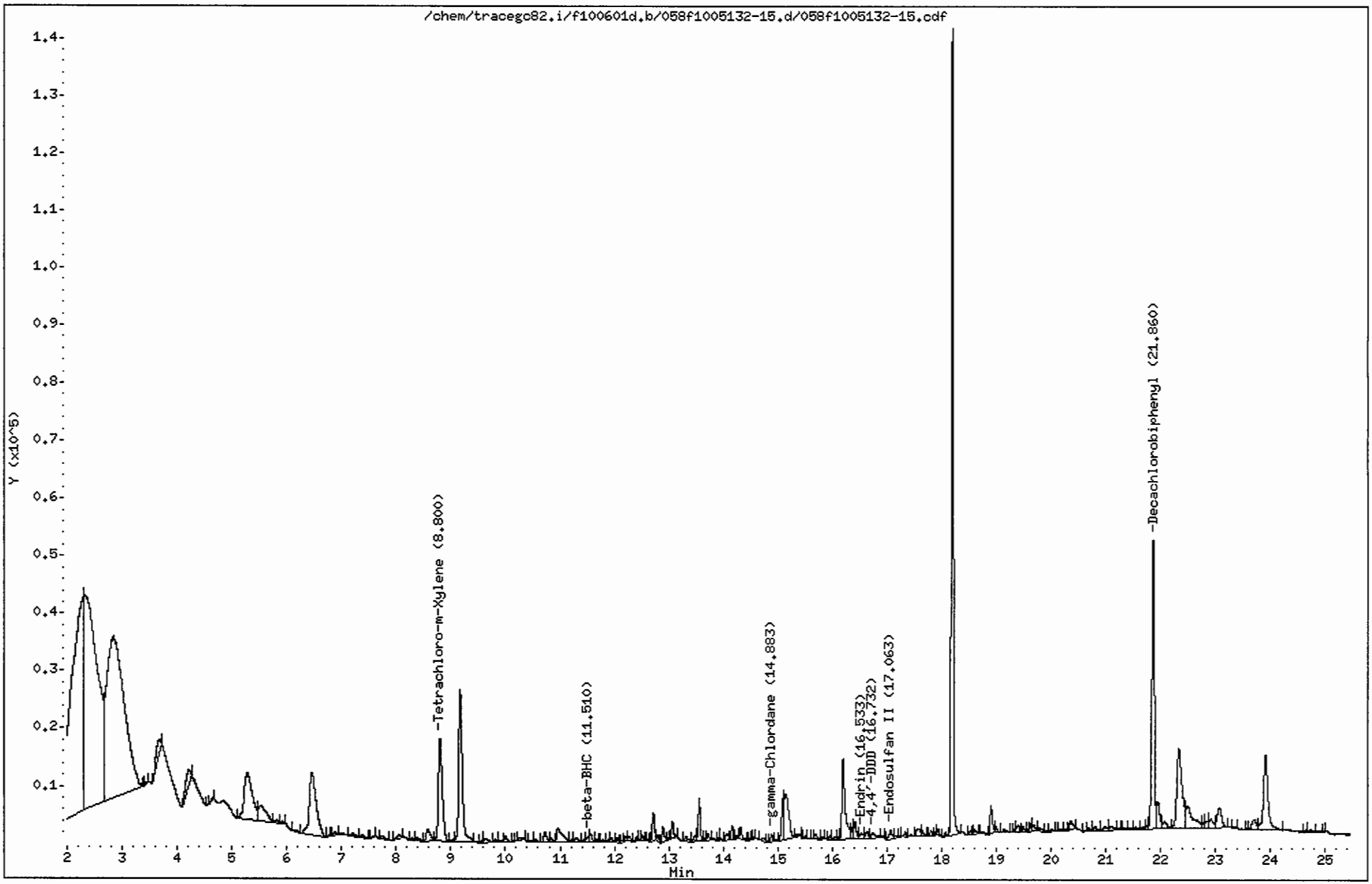
Sample Info: 1005132-15

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-15 Client Smp Id : SS81-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:29 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS81-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.04			495								
1.13			3977								
1.20			852								
1.49			295767								
1.88			10635								
2.30			564541								
2.32			625291								
2.84			623246								
3.44			861								
3.67			16830								
4.20			15778								
4.54			281								
4.64			2139								
5.28			83868								
5.53			26017								
5.81			1977								
5.91			697								
6.13			1793								
6.46			96882								
6.78			530								
6.88			2098								
7.20			2745								
7.37			2569								
7.60			881								
7.75			2762								
8.05			2765								
8.30			1328								
8.38			2402								
8.57			11189								
8.80	8.73	8.87	87652	1587700	Tetrachloro-m-Xylene	0.055207	9.485725		92.0	70 - 125	
9.05			972								
9.17			117860								
9.58			1406								
9.64			3586								
9.81			1177								
9.89			923								
10.00			3053								

6/3/10

CompuChem

Lab Smp Id : 1005132-15 Client Smp Id : SS81-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS81-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.13		283								
10.27		1933								
10.47		809								
10.54		1957								
10.72		6612								
10.84		1974								
10.96		16540								
11.19		1123								
11.30		3376								
11.45		625								
11.51	11.41 11.55	2492	1035150	beta-BHC	0.002407	0.413639	0.877320			J
11.56		3701								
11.67		1516								
11.79		1269								
11.89		726								
11.94		1943								
12.05		1710								
12.14		355								
12.21		2534								
12.28		2886								
12.40		1936								
12.46		809								
12.52		2340								
12.61		551								
12.71		13606								
12.79		2764								
12.89		7591								
12.99		373								
13.06		8387								
13.32		3138								
13.50		3673								
13.56		17028								
13.67		686								
13.72		2815								
13.80		1597								
13.93		647								
14.07		3926								

CompuChem

Lab Smp Id : 1005132-15 Client Smp Id : SS81-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS81-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.16		5888								
14.25		1738								
14.32		5732								
14.48		731								
14.56		553								
14.72		1990								
14.88	14.84 14.98	3036	2245768	gamma-Chlordane	0.001351	0.232205	1.752577			J
14.96		809								
15.10		17828								
15.14		47348								
15.34		2336								
15.50		1075								
15.64		288								
15.69		3129								
15.83		836								
15.95		1780								
16.06		1541								
16.12		784								
16.20		58202								
16.37		4979								
16.42		8914								
16.53	16.51 16.65	4068	1695798	Endrin	0.002398	0.412076	3.402062			J
16.64		3717								
16.73	16.66 16.80	4786	1534440	4,4'-DDD	0.003119	0.535920	3.402062			J
16.90		708								
17.06	17.01 17.15	5420	1759840	Endosulfan II	0.003079	0.529082	3.402062			J
17.16		1352								
17.33		2181								
17.56		6105								
17.65		2595								
17.81		2127								
17.89		852								
17.93		3495								
18.07		2157								
18.19		341112								
18.52		1507								
18.61		1770								

CompuChem

Lab Smp Id : 1005132-15 Client Smp Id : SS81-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS81-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.75		1355								
18.90		14137								
18.99		2989								
19.16		2270								
19.36		1510								
19.41		3568								
19.49		2376								
19.56		667								
19.63		3307								
19.68		4097								
19.79		2196								
19.92		566								
20.02		988								
20.19		974								
20.36		5611								
20.64		517								
20.68		2210								
20.81		3237								
20.98		3114								
21.10		3418								
21.25		308								
21.36		997								
21.45		475								
21.55		1145								
21.68		1339								
21.76		1495								
21.86	21.79 21.93	161548	1622138	Decachlorobiphenyl	0.099590	17.11160		83.0	55 - 130	
21.95		18733								
22.08		5555								
22.33		92652								
22.50		32412								
22.79		2740								
22.84		4610								
22.91		7253								
23.07		20413								
23.34		621								
23.59		343								

CompuChem

Lab Smp Id : 1005132-15 Client Smp Id : SS81-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : SS81-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.69		9142								
23.91		73356								
24.64		945								
24.74		1928								
24.88		643								
25.00		365								

Data File: /chem/tracegc82.i/f100601d_2C.b/058f1005132-15.d

Date : 02-JUN-2010 19:29

Client ID: SS81-0-1

Instrument: tracegc82.i

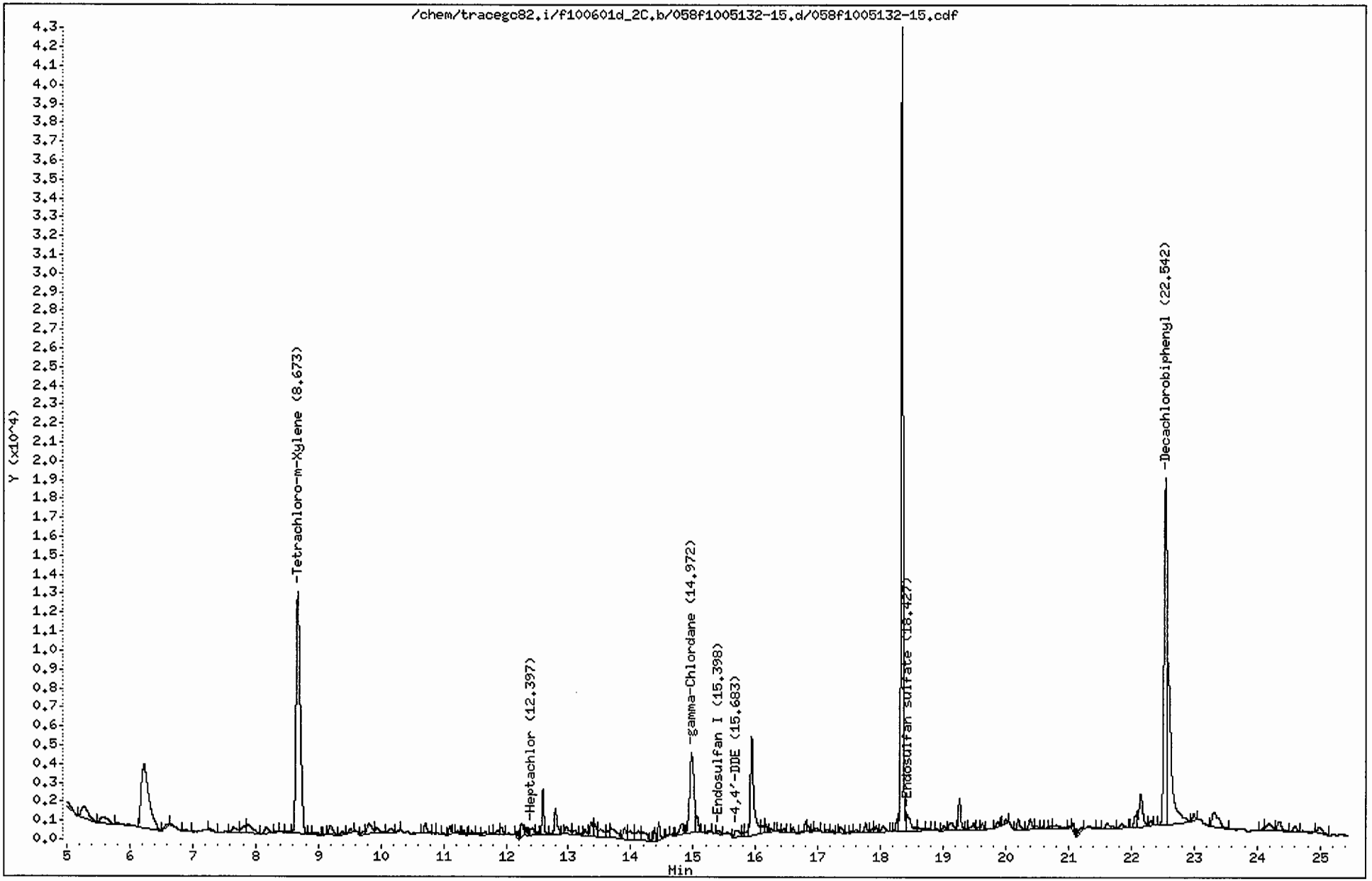
Sample Info: 1005132-15

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-15 Client Smp Id : SS81-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:29 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SS81-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.11			418								
1.16			845								
1.36			2020								
1.53			171863								
2.08			718379								
2.98			16424								
3.06			42315								
3.49			62861								
4.30			3202								
4.66			711								
4.84			20992								
5.27			4720								
5.58			2783								
6.23			29443								
6.60			519								
6.86			459								
7.28			620								
7.65			1619								
7.82			1312								
7.89			3210								
8.17			1640								
8.33			197								
8.51			277								
8.67	8.59	8.73	58724	548876	Tetrachloro-m-Xylene	0.106988	18.38277		178.3*	70 - 125	R
8.86			142								
8.94			668								
9.11			153								
9.20			2141								
9.38			450								
9.51			618								
9.71			465								
9.81			3067								
9.94			1374								
10.16			901								
10.28			209								
10.71			1875								
10.88			185								

6/3/10

CompuChem

Lab Smp Id : 1005132-15 Client Smp Id : SS81-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SS81-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.99		242								
11.10		1082								
11.23		288								
11.32		563								
11.45		625								
11.55		368								
11.67		561								
11.80		263								
11.87		805								
11.93		1238								
12.17		568								
12.25		2234								
12.32		735								
12.40	12.33 12.47	1528	778205	Heptachlor	0.001962	0.337149	1.752577			J
12.51		388								
12.59		5554								
12.79		4239								
12.97		1856								
13.10		861								
13.19		294								
13.26		1182								
13.36		2167								
13.42		2559								
13.51		2369								
13.63		1244								
13.69		3791								
13.90		2008								
13.99		2588								
14.13		2669								
14.19		2915								
14.38		1361								
14.45		2219								
14.59		340								
14.66		169								
14.82		2561								
14.97	14.88 15.02	20372	690205	gamma-Chlordane	0.029514	5.071206	1.752577			M 2
15.06		2219								

KEH 6/3/10

CompuChem

Lab Smp Id : 1005132-15 Client Smp Id : SS81-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SS81-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.25		275								
15.40	15.33 15.47	759	638725	Endosulfan I	0.001187	0.203907	1.752577			J
15.68	15.61 15.75	2098	617325	4,4'-DDE	0.003399	0.583941	3.402062			J
15.80		520								
15.86		681								
15.94		19516								
16.12		1376								
16.16		1243								
16.25		389								
16.38		223								
16.45		582								
16.60		671								
16.80		1367								
16.84		656								
16.92		211								
16.98		759								
17.15		481								
17.24		406								
17.36		1214								
17.55		230								
17.61		451								
17.76		1266								
17.87		528								
17.93		712								
18.04		1297								
18.27		1703								
18.34		92753								
18.43	18.40 18.54	4372	479624	Endosulfan sulfate	0.009113	1.565875	3.402062			J
18.61		716								
18.76		244								
18.91		273								
19.01		918								
19.13		1876								
19.26		4409								
19.39		172								
19.49		1335								
19.56		310								

CompuChem

Lab Smp Id : 1005132-15 Client Smp Id : SS81-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 19:29 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : SS81-0-1

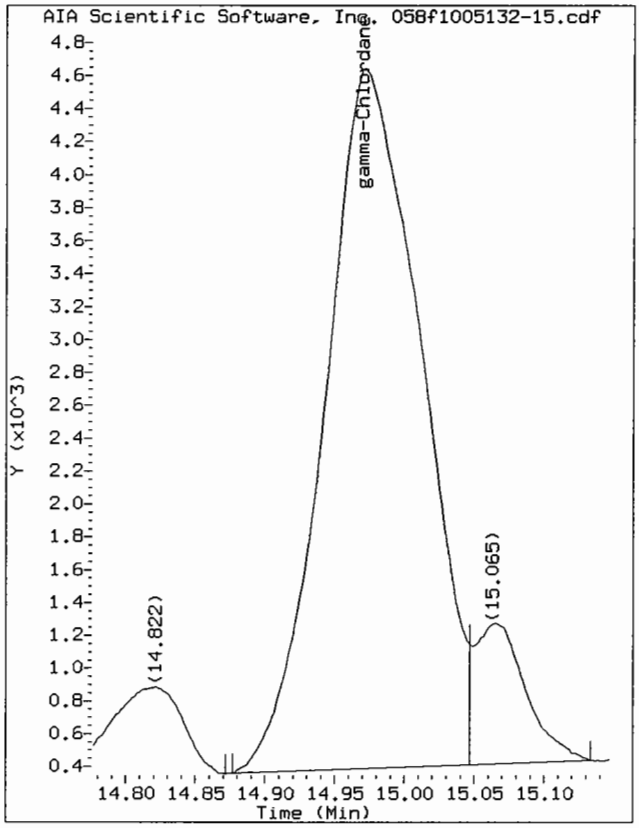
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 3(%)

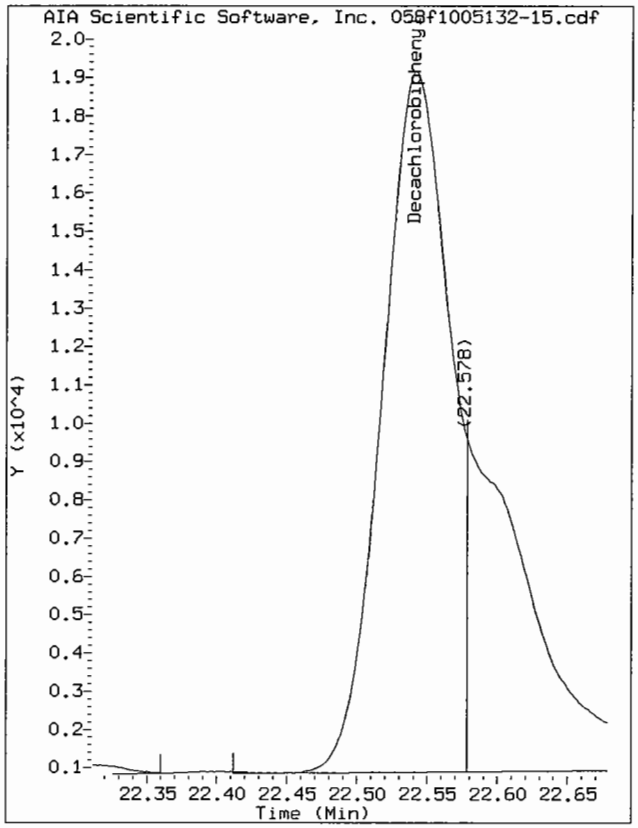
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.63		932								
19.87		745								
20.00		521								
20.20		1647								
20.39		1811								
20.49		553								
20.58		273								
20.71		317								
20.81		1257								
21.01		228								
21.07		1022								
21.21		1031								
21.48		230								
21.62		1489								
21.85		928								
22.07		2118								
22.15		7114								
22.31		820								
22.54	22.47 22.61	60832	497254	Decachlorobiphenyl	0.122334	21.01954		101.9	55 - 130	M2
22.58		33724								
23.00		950								
23.31		5340								
24.11		317								
24.19		2325								
24.35		2496								
24.60		966								
24.98		1585								

KEH 6/3/10

Manually Integrated Peaks

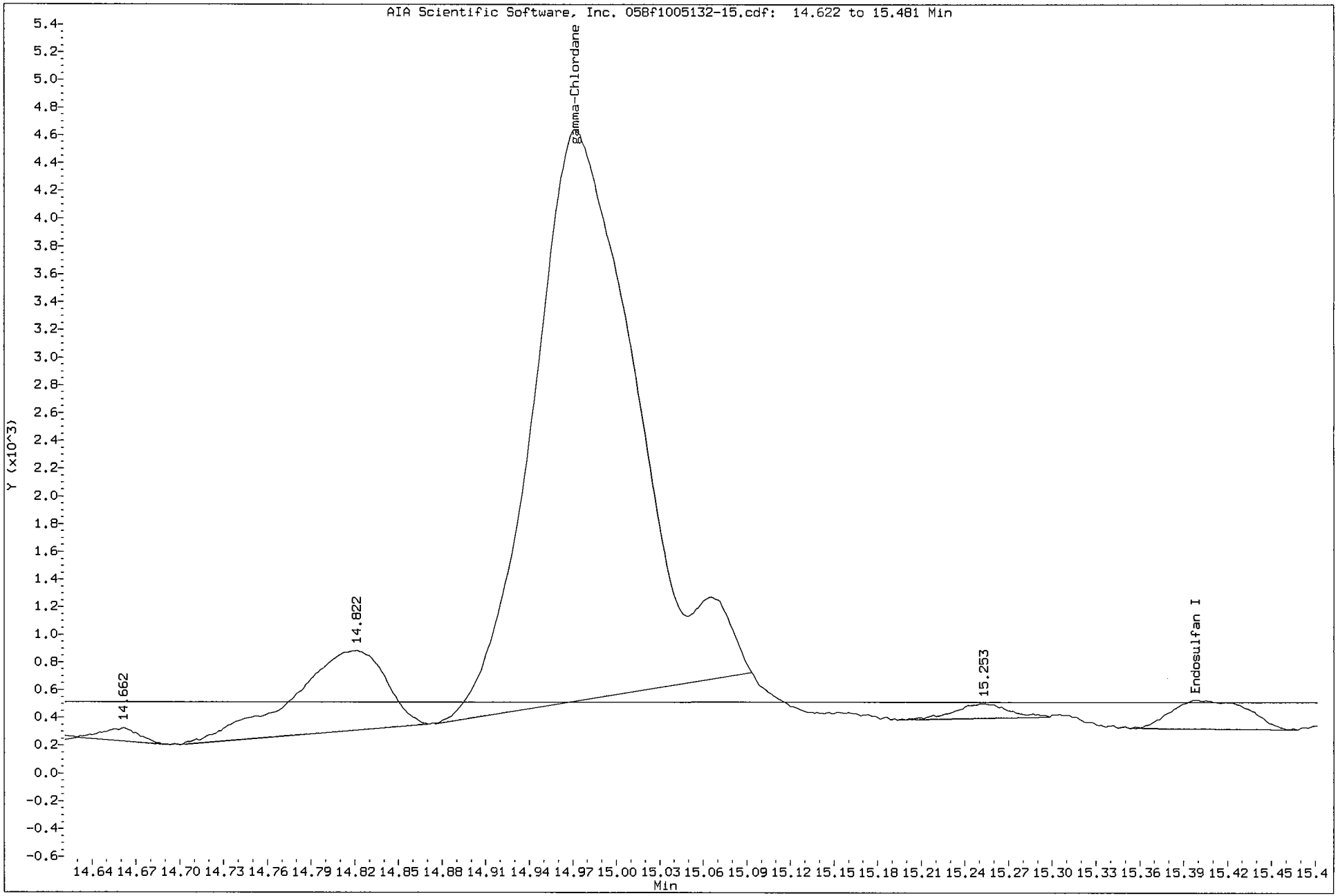


Start: 14.88 Stop: 15.05

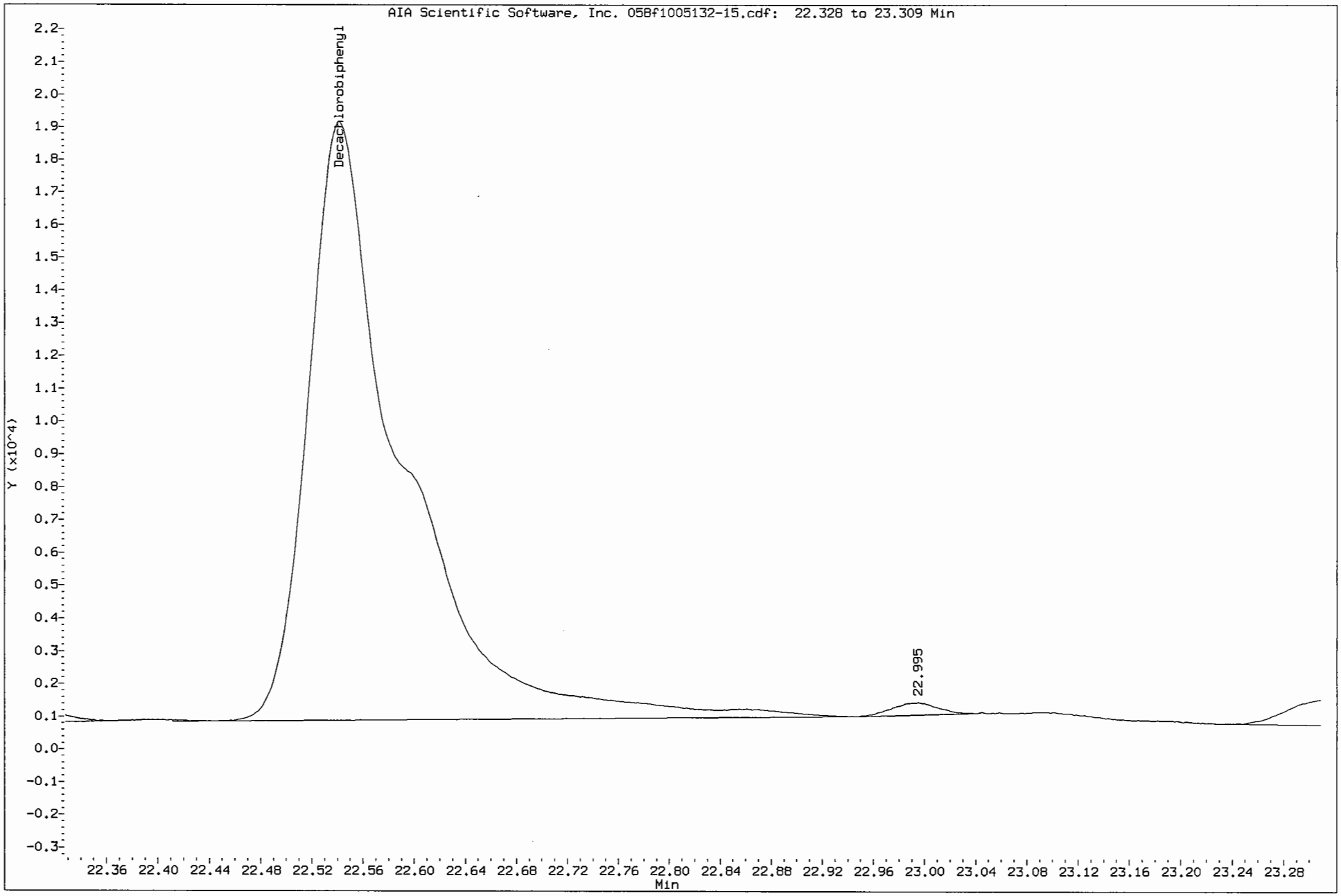


Start: 22.41 Stop: 22.58

Data File: /chem/tracegc82.i/f100601d_2C.b/058f1005132-15.d/058f1005132-15.cdf
Injection Date: 02-JUN-2010 19:29
Instrument: tracegc82.i
Client Sample ID: SS81-0-1



Data File: /chem/tracegc82.i/f100601d_2C.b/058f1005132-15.d/058f1005132-15.cdf
Injection Date: 02-JUN-2010 19:29
Instrument: tracegc82.i
Client Sample ID: SS81-0-1



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS83-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 6 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.8	U
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	0.48	JP
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	3.5	U
72-55-9	4,4'-DDE	0.96	J
50-29-3	4,4'-DDT	3.5	U
60-57-1	Dieldrin	3.5	U
959-98-8	Endosulfan I	0.45	J
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	2.2	JP
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	3.5	U
76-44-8	Heptachlor	0.21	JP
1024-57-3	Heptachlor Epoxide	1.8	U
72-43-5	Methoxychlor	7.2	JP
8001-35-2	Toxaphene	88	U
53494-70-5	Endrin Ketone	2.4	JP
5103-74-2	gamma-Chlordane	1.8	U
5103-71-9	alpha-Chlordane	0.74	J

FORM I PEST

Data File: /chem/tracegc82.i/f100601b.b/033f1005132-07.d

Date : 02-JUN-2010 07:20

Client ID: SS83-0-1

Instrument: tracegc82.i

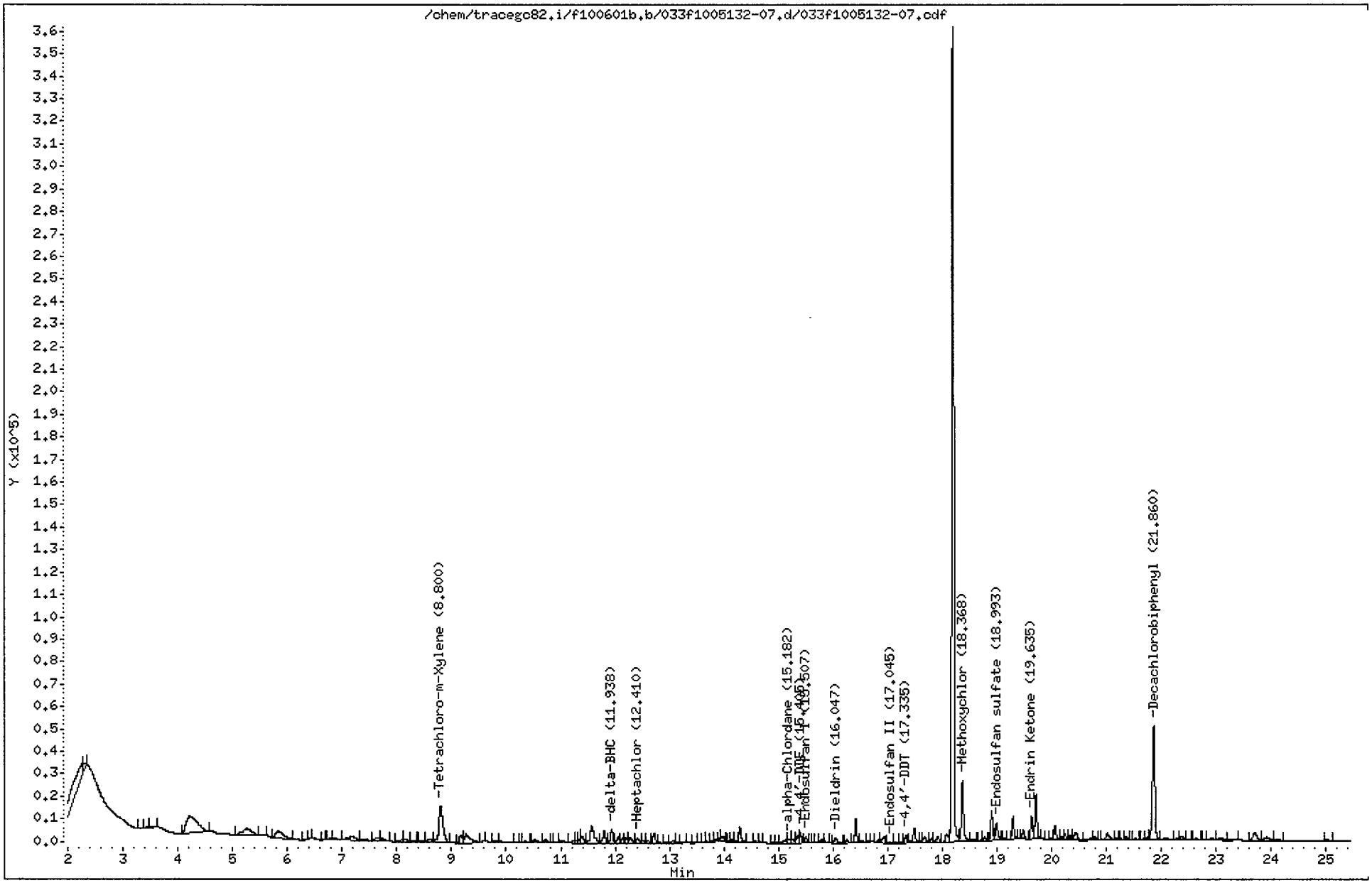
Sample Info: 1005132-07

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



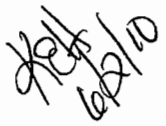
CompuChem

Lab Smp Id : 1005132-07 Client Smp Id : SS83-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:20 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS83-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			91480								
1.69			3146								
1.74			3354								
1.78			1347								
2.26			73346								
2.30			10055								
3.29			558								
3.47			1526								
3.51			2194								
4.21			104106								
5.24			38566								
5.51			1092								
5.82			28974								
6.35			1630								
6.44			1163								
6.67			320								
6.80			1913								
6.86			3146								
7.18			15453								
7.37			4403								
7.64			8995								
7.73			5337								
8.10			3204								
8.14			6265								
8.30			3178								
8.39			1098								
8.45			4037								
8.60			8320								
8.80	8.73	8.87	81809	1587700	Tetrachloro-m-Xylene	0.051526	9.135837		85.9	70 - 125	
9.17			14661								
9.27			27856								
9.60			554								
9.82			2406								
10.19			1148								
10.29			711								
10.34			2608								
10.53			5782								



CompuChem

Lab Smp Id : 1005132-07 Client Smp Id : SS83-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:20 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS83-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
10.72		3703								
10.91		1179								
11.02		4714								
11.24		3212								
11.29		3398								
11.36		4603								
11.39		9420								
11.56		38313								
11.80		17604								
11.94	11.85 11.99	17527	2721052	delta-BHC	0.006441	1.142067	1.808511			J
12.05		8211								
12.13		6252								
12.20		6466								
12.28		9640								
12.41	12.38 12.52	9429	2589888	Heptachlor	0.003640	0.645445	1.808511			J
12.51		3631								
12.60		4202								
12.72		13738								
12.83		773								
12.94		2056								
13.06		3375								
13.14		804								
13.25		1469								
13.47		764								
13.53		576								
13.67		1158								
13.79		1113								
13.85		1259								
13.91		3373								
13.96		8081								
14.10		1465								
14.15		2331								
14.23		1621								
14.29		18791								
14.57		2093								
14.65		1268								
14.89		1254								

CompuChem

Lab Smp Id : 1005132-07 Client Smp Id : SS83-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:20 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS83-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.98		1402								
15.13		5667								
15.18	15.15 15.29	8162	1924148	alpha-Chlordane	0.004242	0.752120	1.808511			JM
15.26		4876								
15.36		9671								
15.40	15.34 15.48	10930	2012896	4,4'-DDE	0.005429	0.962676	3.510638			J
15.51	15.45 15.59	6257	2067970	Endosulfan I	0.003025	0.536428	1.808511			JM
15.58		303								
15.70		880								
15.79		3625								
15.86		1314								
16.05	15.99 16.13	10264	2037205	Dieldrin	0.005038	0.893224	3.510638			J
16.25		3879								
16.42		24966								
16.53		1832								
16.66		746								
16.83		3116								
16.93		10592								
17.04	17.01 17.15	3629	1759840	Endosulfan II	0.002062	0.365624	3.510638			J
17.16		2586								
17.27		2827								
17.34	17.27 17.41	10593	1722489	4,4'-DDT	0.006150	1.090394	3.510638			J
17.48		21518								
17.59		2053								
17.68		8707								
17.80		4771								
17.92		9245								
18.08		12294								
18.19		968869								
18.37	18.33 18.47	74326	731447	Methoxychlor	0.101614	18.01661	18.08511			J
18.53		2446								
18.72		646								
18.77		3618								
18.90		32604								
18.99	18.89 19.03	19370	1574194	Endosulfan sulfate	0.012305	2.181686	3.510638			J
19.13		882								
19.21		639								

CompuChem

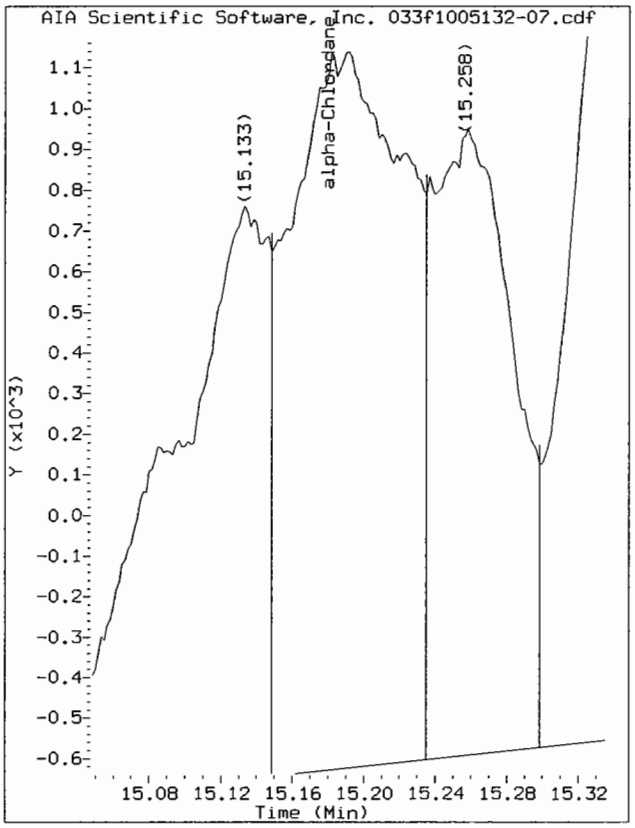
Lab Smp Id : 1005132-07 Client Smp Id : SS83-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:20 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS83-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

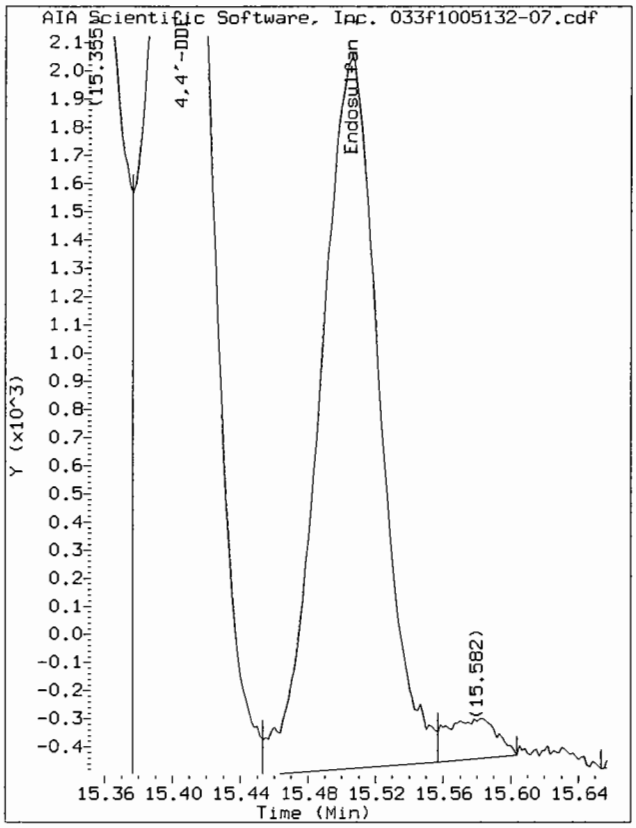
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.29		24658								
19.40		970								
19.48		10728								
19.64	19.49 19.63	25474	1849761	Endrin Ketone	0.013772	2.441757	3.510638			TU
19.71		49640								
19.92		635								
20.00		912								
20.06		17202								
20.18		2865								
20.25		5734								
20.34		4975								
20.44		14395								
20.73		2294								
20.79		3170								
21.02		11368								
21.18		855								
21.28		791								
21.36		3887								
21.53		1417								
21.68		1183								
21.75		3372								
21.86	21.79 21.93	162498	1622138	Decachlorobiphenyl	0.100175	17.76156		83.5	55 - 130	
22.09		4239								
22.29		1918								
22.36		4805								
22.50		709								
22.64		2781								
22.78		648								
22.91		3515								
23.09		4623								
23.31		2681								
23.70		18091								
23.92		10386								
24.10		3145								
25.02		2078								

Manually Integrated Peaks



Start: 15.15 Stop: 15.23



Start: 15.45 Stop: 15.56

Data File: /chem/tracegc82.i/f100601b_2C.b/033f1005132-07.d

Page 1

Date : 02-JUN-2010 07:20

Client ID: SS83-0-1

Instrument: tracegc82.i

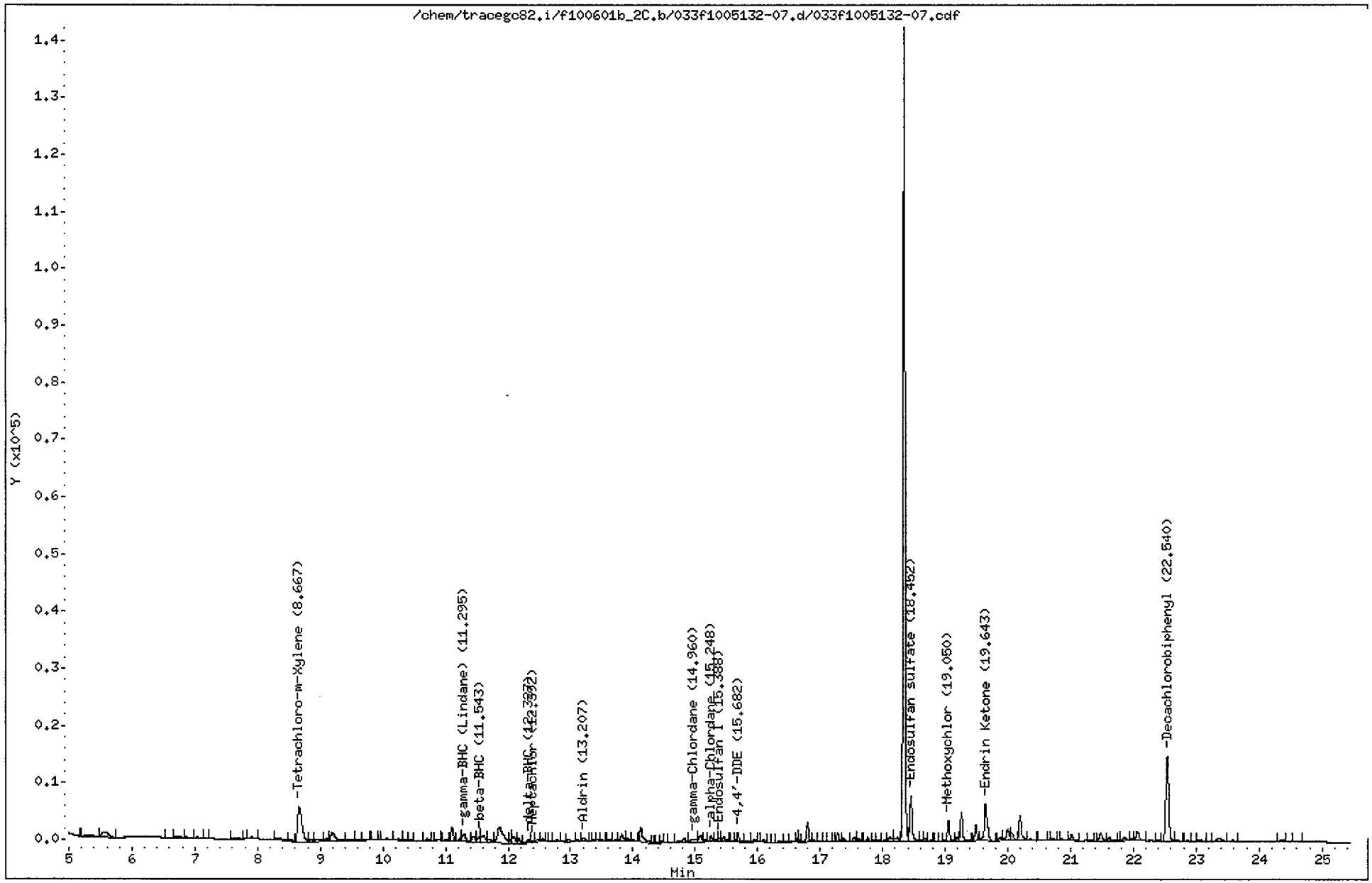
Sample Info: 1005132-07

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-07 Client Smp Id : SS83-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:20 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS83-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			151								
1.52			58407								
2.05			17500								
3.12			894								
3.52			24495								
4.84			9307								
5.29			1682								
5.57			6955								
6.59			854								
6.74			2151								
6.86			872								
7.04			904								
7.18			241								
7.63			1421								
7.82			127								
7.90			662								
8.34			2312								
8.53			1228								
8.67	8.59	8.73	30985	548876	Tetrachloro-m-Xylene	0.056452	10.00917		94.1	70 - 125	
8.86			1651								
8.95			2762								
9.11			2087								
9.19			8124								
9.50			1294								
9.58			952								
9.71			483								
9.88			474								
10.05			1134								
10.25			1219								
10.33			534								
10.42			387								
10.70			975								
10.88			346								
11.00			650								
11.10			6732								
11.24			1235								
11.30	11.25	11.39	5585	866882	gamma-BHC (Lindane)	0.006443	1.142310	1.808511			J

CompuChem

Lab Smp Id : 1005132-07 Client Smp Id : SS83-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:20 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS83-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.44		3445								
11.54	11.50 11.64	2947	347428	beta-BHC	0.008479	1.503452	0.905319			
11.61		4960								
11.68		3421								
11.87		18101								
12.05		1861								
12.09		3948								
12.18		2835								
12.33	12.22 12.36	2228	827595	delta-BHC	0.002692	0.477329	1.808511			J
12.39	12.33 12.47	918	778205	Heptachlor	0.001178	0.208928	1.808511			J
12.47		1243								
12.56		1017								
12.68		156								
12.78		721								
12.86		375								
12.97		1398								
13.10		557								
13.21	13.10 13.24	1313	726628	Aldrin	0.001806	0.320142	1.808511			J
13.38		284								
13.49		492								
13.62		431								
13.71		358								
13.82		3901								
13.91		1369								
13.99		1008								
14.12		9737								
14.33		224								
14.38		279								
14.46		553								
14.61		411								
14.83		2935								
14.96	14.88 15.02	3083	690205	gamma-Chlordane	0.004465	0.791727	1.808511			J
15.08		3126								
15.16		743								
15.25	15.21 15.35	2472	595455	alpha-Chlordane	0.004151	0.736072	1.808511			J
15.36		1285								
15.39	15.33 15.47	1612	638725	Endosulfan I	0.002524	0.447478	1.808511			J

CompuChem

Lab Smp Id : 1005132-07 Client Smp Id : SS83-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:20 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS83-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.45		2804								
15.61		241								
15.68	15.61 15.75	3576	617325	4,4'-DDE	0.005791	1.026793	3.510638			J
15.82		371								
15.95		1098								
16.09		1050								
16.18		224								
16.25		135								
16.37		426								
16.45		389								
16.54		346								
16.65		735								
16.80		8227								
16.89		544								
17.00		172								
17.16		199								
17.28		3337								
17.38		1420								
17.54		1991								
17.61		1164								
17.76		1411								
17.86		382								
17.93		507								
18.03		494								
18.11		2737								
18.24		2509								
18.34		287931								
18.45	18.40 18.54	20870	479624	Endosulfan sulfate	0.043513	7.715120	3.510638			
18.60		543								
18.68		1107								
18.77		391								
18.84		169								
18.92		133								
19.05	19.03 19.17	8522	208391	Methoxychlor	0.040889	7.249908	18.08511			J
19.19		1398								
19.26		11940								
19.49		6490								

CompuChem

Lab Smp Id : 1005132-07 Client Smp Id : SS83-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 07:20 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS83-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 6(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.64	19.55 19.69	22666	535815	Endrin Ketone	0.042300	7.500008	3.510638			
19.88		1995								
20.00		6756								
20.07		4576								
20.20		12182								
20.37		983								
20.51		688								
20.65		138								
20.71		1127								
20.86		998								
21.02		3148								
21.31		523								
21.48		4069								
21.62		2194								
21.86		2173								
21.98		923								
22.06		5641								
22.39		305								
22.54	22.47 22.61	48116	497254	Decachlorobiphenyl	0.096763	17.15662		80.6	55 - 130	
22.69		626								
22.87		276								
23.07		635								
23.37		3396								
23.58		736								
24.36		1306								
24.46		364								
24.61		646								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS84-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	0.20	JP
319-85-7	beta-BHC	1.8	U
319-84-6	alpha-BHC	1.8	U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
72-54-8	4,4'-DDD	5.6	
72-55-9	4,4'-DDE	38	E
50-29-3	4,4'-DDT	16	
60-57-1	Dieldrin	0.73	JP
959-98-8	Endosulfan I	1.8	U
33213-65-9	Endosulfan II	3.5	U
1031-07-8	Endosulfan sulfate	3.5	U
72-20-8	Endrin	3.5	U
7421-93-4	Endrin Aldehyde	0.53	JP
76-44-8	Heptachlor	0.39	JP
1024-57-3	Heptachlor Epoxide	0.23	JP
72-43-5	Methoxychlor	18	U
8001-35-2	Toxaphene	87	U
53494-70-5	Endrin Ketone	3.5	U
5103-74-2	gamma-Chlordane	1.4	JP
5103-71-9	alpha-Chlordane	0.54	JP

Data File: /chem/tracegc82.i/f100601c.b/043f1005132-13.d

Page 1

Date : 02-JUN-2010 12:12

Client ID: SS84-0-1

Instrument: tracegc82.i

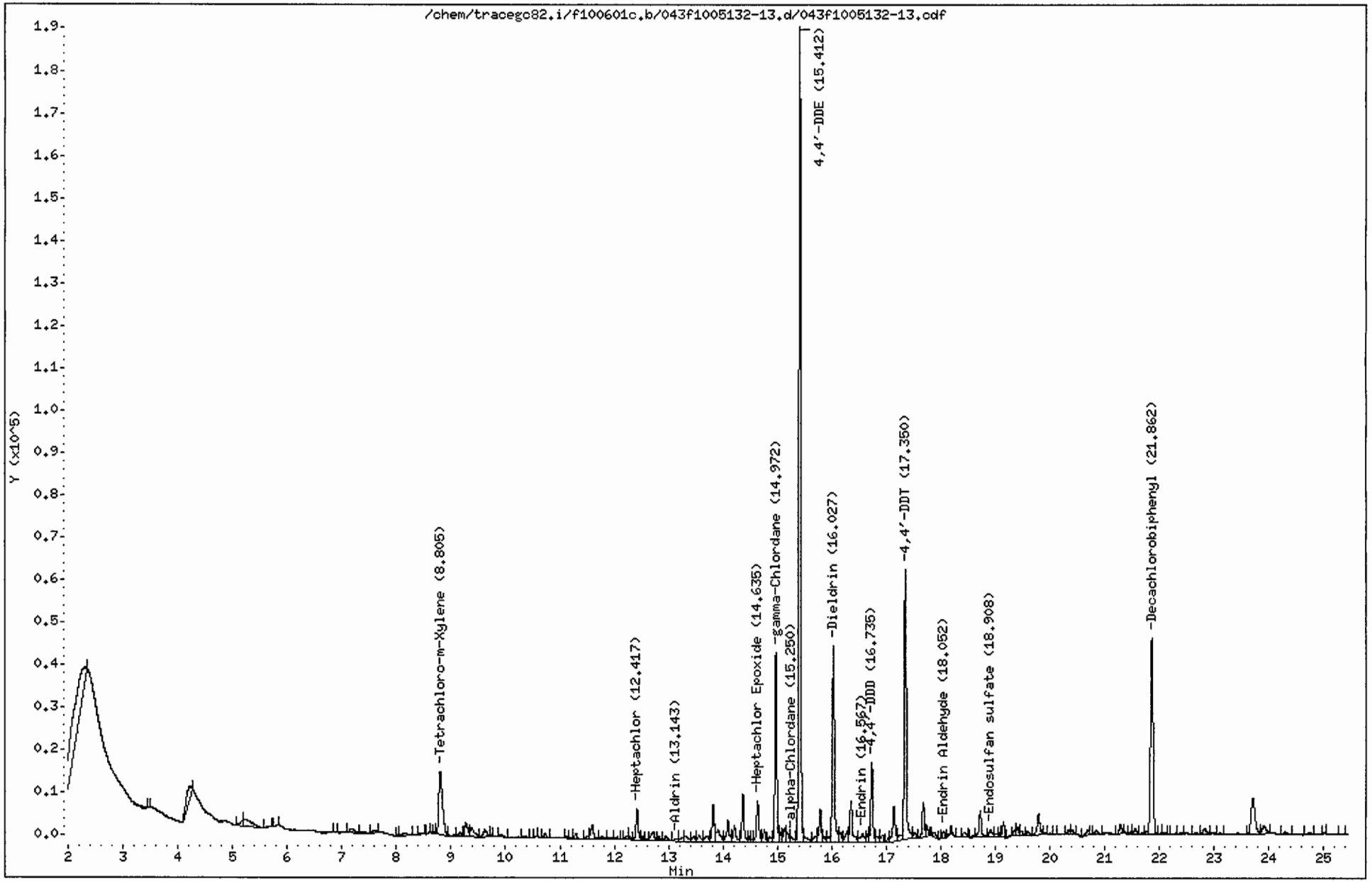
Sample Info: 1005132-13

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-13 Client Smp Id : SS84-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:12 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : SS84-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.04			378								
1.49			103562								
1.73			1465								
2.29			99101								
3.46			390								
4.21			21023								
5.20			5679								
5.25			16507								
5.67			960								
5.81			506								
6.86			454								
7.18			6004								
7.39			3113								
7.61			2067								
8.04			627								
8.16			5380								
8.46			598								
8.60			473								
8.72			699								
8.80	8.73	8.87	70388	1587700	Tetrachloro-m-Xylene	0.044333	7.777777		73.9	70 - 125	
9.17			2868								
9.27			12527								
9.38			10496								
9.62			6571								
9.72			875								
9.90			1444								
10.34			1514								
10.55			634								
10.73			3437								
11.12			1385								
11.23			989								
11.29			4775								
11.52			1968								
11.60			12861								
11.76			2730								
11.89			1665								
12.05			1738								

6/2/10

CompuChem

Lab Smp Id : 1005132-13 Client Smp Id : SS84-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : SS84-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.23		2029								
12.27		2290								
12.42	12.38 12.52	20895	2589888	Heptachlor	0.008068	1.415424	1.789474			J
12.52		2190								
12.60		1143								
12.71		10331								
12.82		3240								
12.94		5623								
13.14	13.11 13.25	2761	2391920	Aldrin	0.001154	0.202436	1.789474			J
13.25		2839								
13.31		5433								
13.47		4884								
13.56		5518								
13.71		6151								
13.82		25635								
13.91		13682								
14.09		17803								
14.21		12764								
14.37		30406								
14.48		3207								
14.55		904								
14.64	14.56 14.70	31020	2235460	Heptachlor Epoxide	0.013876	2.434445	1.789474			
14.76		8327								
14.85		4762								
14.97	14.84 14.98	108022	2245768	gamma-Chlordane	0.048100	8.438564	1.789474			
15.05		6266								
15.13		9631								
15.18		6248								
15.25	15.15 15.29	5935	1924148	alpha-Chlordane	0.003084	0.541137	1.789474			J
15.41	15.34 15.48	472610	2012896	4,4'-DDE	0.234791	41.19142	3.473684			EM
15.49		5721								
15.69		5197								
15.79		23721								
15.86		3721								
15.94		4150								
16.03	15.99 16.13	125672	2037205	Dieldrin	0.061688	10.82253	3.473684			
16.16		6853								

2 KEH 6/2/10

CompuChem

Lab Smp Id : 1005132-13 Client Smp Id : SS84-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : SS84-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.29		10164								
16.36		31111								
16.57	16.51 16.65	11003	1695798	Endrin	0.006488	1.138314	3.473684			J
16.66		5797								
16.74	16.66 16.80	48768	1534440	4,4'-DDD	0.031782	5.575838	3.473684			
16.83		5710								
16.93		5957								
17.04		2234								
17.14		26602								
17.27		4763								
17.35	17.27 17.41	165935	1722489	4,4'-DDT	0.096334	16.90078	3.473684			
17.53		3931								
17.68		22467								
17.75		5207								
17.88		4132								
18.05	17.93 18.07	4135	1371845	Endrin Aldehyde	0.003014	0.528805	3.473684			J
18.14		1130								
18.22		1033								
18.43		4368								
18.59		1666								
18.73		19577								
18.91	18.89 19.03	6909	1574194	Endosulfan sulfate	0.004388	0.769873	3.473684			J
19.02		2366								
19.09		1974								
19.15		8416								
19.28		979								
19.35		3386								
19.41		6361								
19.48		3663								
19.59		3299								
19.79		17983								
19.92		1498								
20.00		812								
20.09		340								
20.34		3010								
20.41		3250								
20.51		1496								

CompuChem

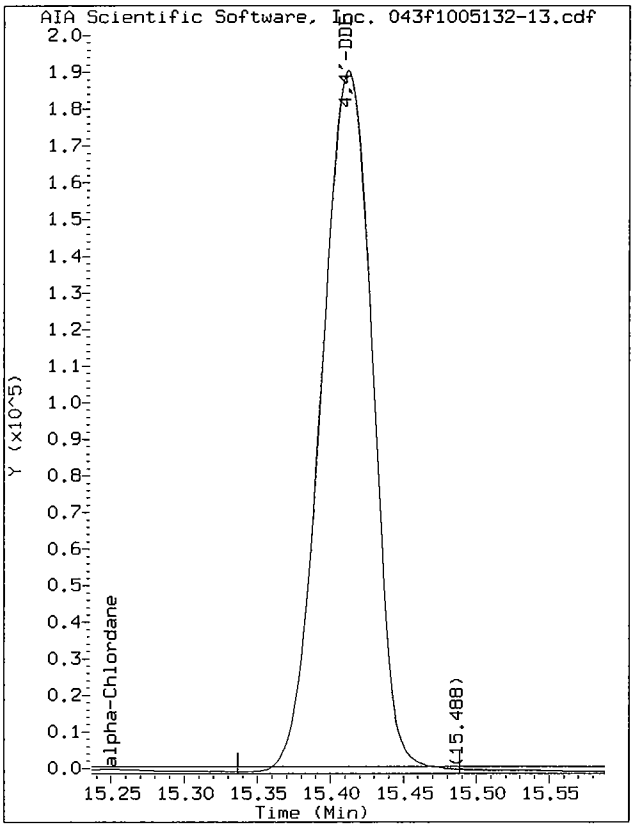
Lab Smp Id : 1005132-13 Client Smp Id : SS84-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : SS84-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

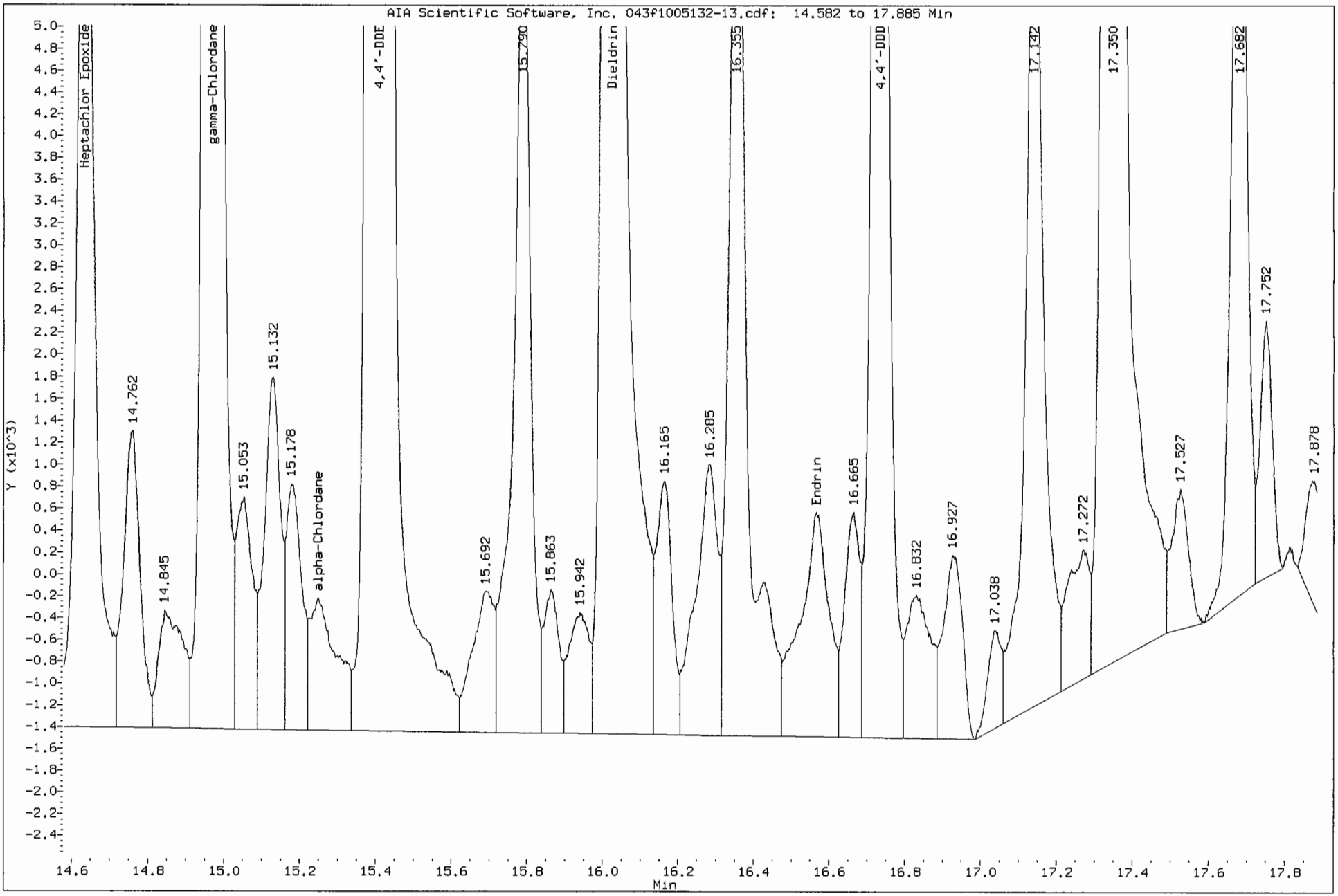
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.69		4809								
20.85		3178								
21.29		5912								
21.47		1576								
21.56		4172								
21.77		1273								
21.86	21.79 21.93	148428	1622138	Decachlorobiphenyl	0.091501	16.05288		76.3	55 - 130	
22.09		1075								
22.26		784								
22.41		1011								
22.66		1464								
22.83		4730								
23.10		873								
23.71		41976								
23.91		8298								
24.30		2403								
24.74		1855								
25.01		310								
25.32		559								

Manually Integrated Peaks



Start: 15.34 Stop: 15.49

Data File: /chem/tracegc82.i/f100601c.b/043f1005132-13.d/043f1005132-13.cdf
Injection Date: 02-JUN-2010 12:12
Instrument: tracegc82.i
Client Sample ID: SS84-0-1



Data File: /chem/tracegc82.i/f100601c_2C.b/043f1005132-13.d

Date : 02-JUN-2010 12:12

Client ID: SS84-0-1

Instrument: tracegc82.i

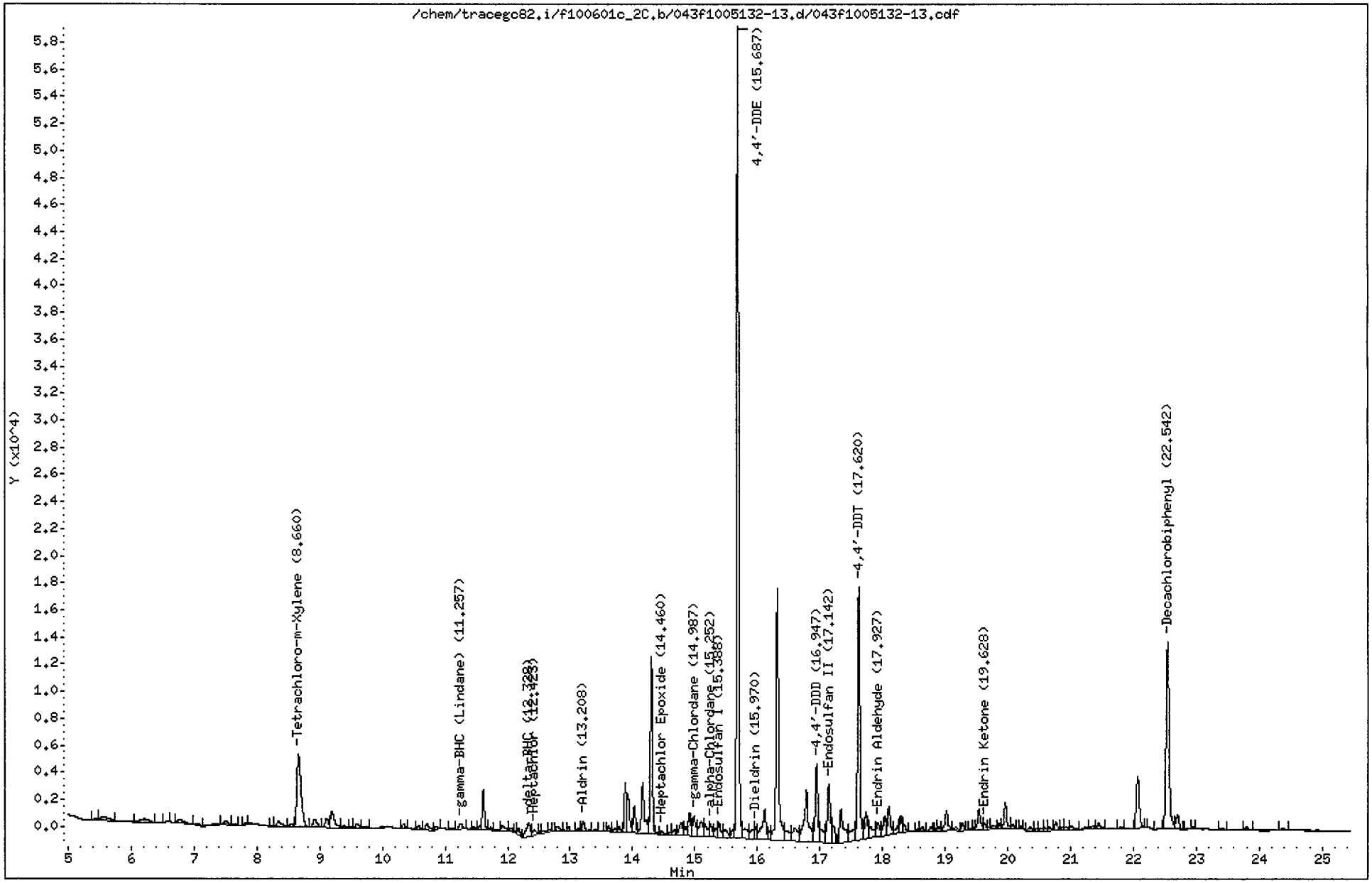
Sample Info: 1005132-13

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-13 Client Smp Id : SS84-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:12 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : SS84-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			249								
1.53			59503								
2.07			19383								
3.11			2779								
3.51			28182								
5.46			478								
5.54			2755								
6.20			2403								
6.58			218								
6.77			1794								
7.05			685								
7.50			1339								
7.62			307								
7.83			250								
8.25			268								
8.34			2053								
8.54			842								
8.66	8.59	8.73	24962	548876	Tetrachloro-m-Xylene	0.045477	7.978346		75.8	70 - 125	
8.92			2807								
9.11			2284								
9.19			5483								
9.39			691								
9.51			162								
9.59			1115								
9.71			342								
10.33			806								
10.58			794								
10.71			1943								
10.86			1018								
11.11			360								
11.26	11.25	11.39	1687	866882	gamma-BHC (Lindane)	0.001946	0.341413	1.789474			J
11.46			343								
11.55			534								
11.61			7089								
11.73			697								
11.82			370								
11.92			1932								

KEH 6/2/10

CompuChem

Lab Smp Id : 1005132-13 Client Smp Id : SS84-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : SS84-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.05		896								
12.13		346								
12.17		1274								
12.33	12.22 12.36	4614	827595	delta-BHC	0.005574	0.977892	1.789474			J
12.42	12.33 12.47	1742	778205	Heptachlor	0.002238	0.392717	1.789474			J
12.51		511								
12.61		740								
12.67		384								
12.79		1430								
12.91		149								
12.97		778								
13.13		548								
13.21	13.10 13.24	2081	726628	Aldrin	0.002864	0.502441	1.789474			J
13.39		270								
13.56		184								
13.62		950								
13.72		920								
13.79		1026								
13.88		8435								
13.93		7592								
14.03		5253								
14.16		12811								
14.30		30625								
14.39		201								
14.46	14.45 14.59	886	683115	Heptachlor Epoxide	0.001297	0.227544	1.789474			J
14.60		608								
14.67		1168								
14.78		3911								
14.86		1598								
14.91		4771								
14.99	14.88 15.02	5318	690205	gamma-Chlordane	0.007705	1.351747	1.789474			J
15.10		4618								
15.16		3695								
15.25	15.21 15.35	2852	595455	alpha-Chlordane	0.004790	0.840283	1.789474			J
15.32		1857								
15.39	15.33 15.47	3608	638725	Endosulfan I	0.005649	0.991009	1.789474			J
15.48		2966								

CompuChem

Lab Smp Id : 1005132-13 Client Smp Id : SS84-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : SS84-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.60		1582								
15.69	15.61 15.75	131986	617325	4,4'-DDE	0.213803	37.50932	3.473684			E
15.80		4078								
15.94		2831								
15.97	15.94 16.08	2484	598394	Dieldrin	0.004151	0.728265	3.473684			J
16.12		10364								
16.19		1953								
16.32		53023								
16.46		4031								
16.60		6211								
16.78		19310								
16.95	16.87 17.01	17402	454222	4,4'-DDD	0.038311	6.721182	3.473684			M
17.00		3941								
17.14	17.07 17.21	15187	526756	Endosulfan II	0.028832	5.058267	3.473684			M
17.19		4227								
17.34		11228								
17.54		4924								
17.62	17.55 17.69	46954	503765	4,4'-DDT	0.093206	16.35196	3.473684			
17.74		6908								
17.81		3658								
17.93	17.81 17.95	3988	425754	Endrin Aldehyde	0.009367	1.643319	3.473684			J
18.04		4663								
18.10		6407								
18.25		1736								
18.29		3400								
18.34		1539								
18.57		502								
18.64		1110								
18.77		1005								
18.86		514								
18.91		835								
19.02		5226								
19.18		908								
19.27		1426								
19.41		329								
19.45		385								
19.54		4821								

CompuChem

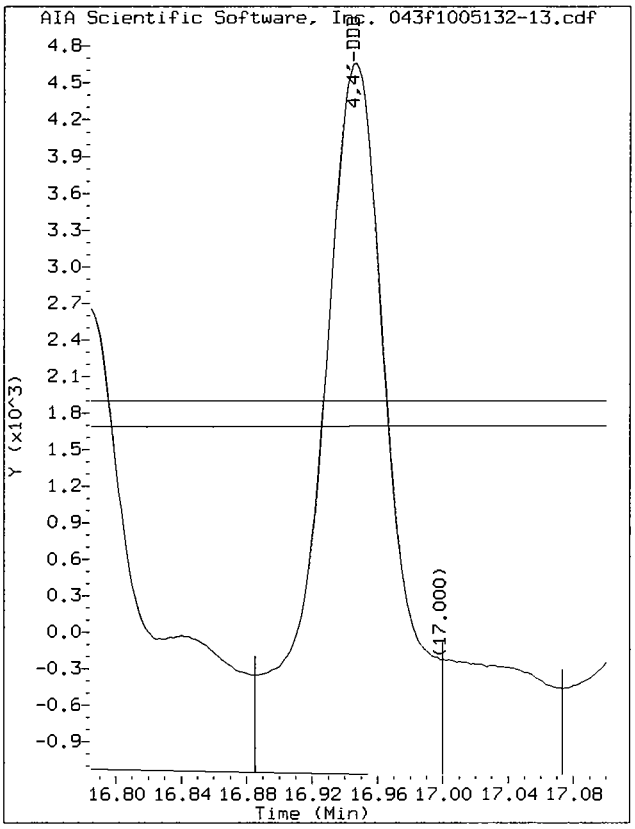
Lab Smp Id : 1005132-13 Client Smp Id : SS84-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 12:12 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : SS84-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

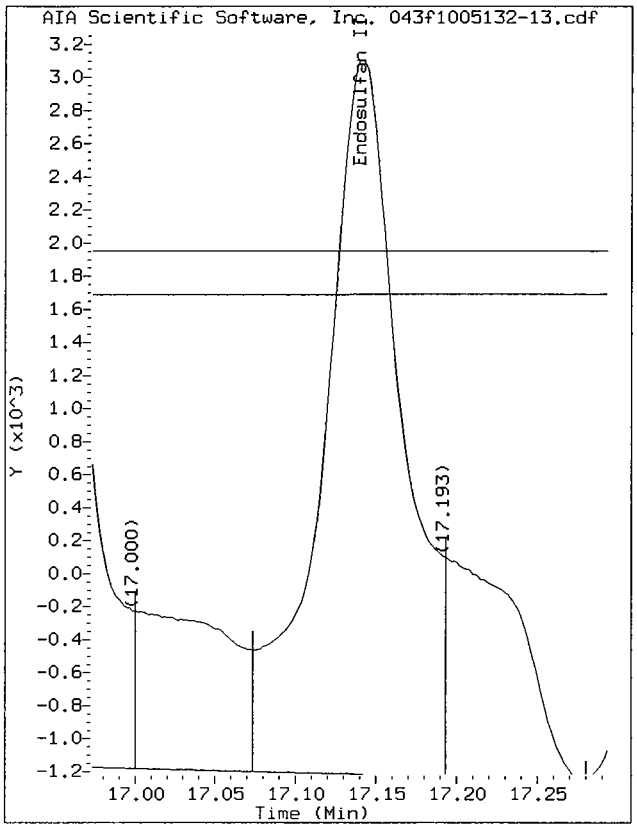
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.63	19.55 19.69	1147	535815	Endrin Ketone	0.002141	0.375555	3.473684			J
19.70		519								
19.78		1291								
19.86		1077								
19.96		5917								
20.08		695								
20.20		337								
20.37		1365								
20.46		582								
20.52		657								
20.59		763								
20.66		981								
20.77		2195								
20.86		581								
20.92		888								
21.01		1294								
21.25		799								
21.35		875								
21.45		1394								
21.79		424								
22.07		13333								
22.25		253								
22.54	22.47 22.61	46072	497254	Decachlorobiphenyl	0.092653	16.25487		77.2	55 - 130	
22.70		3496								
22.86		236								
22.96		140								
23.41		374								
23.80		700								
24.38		407								

Manually Integrated Peaks

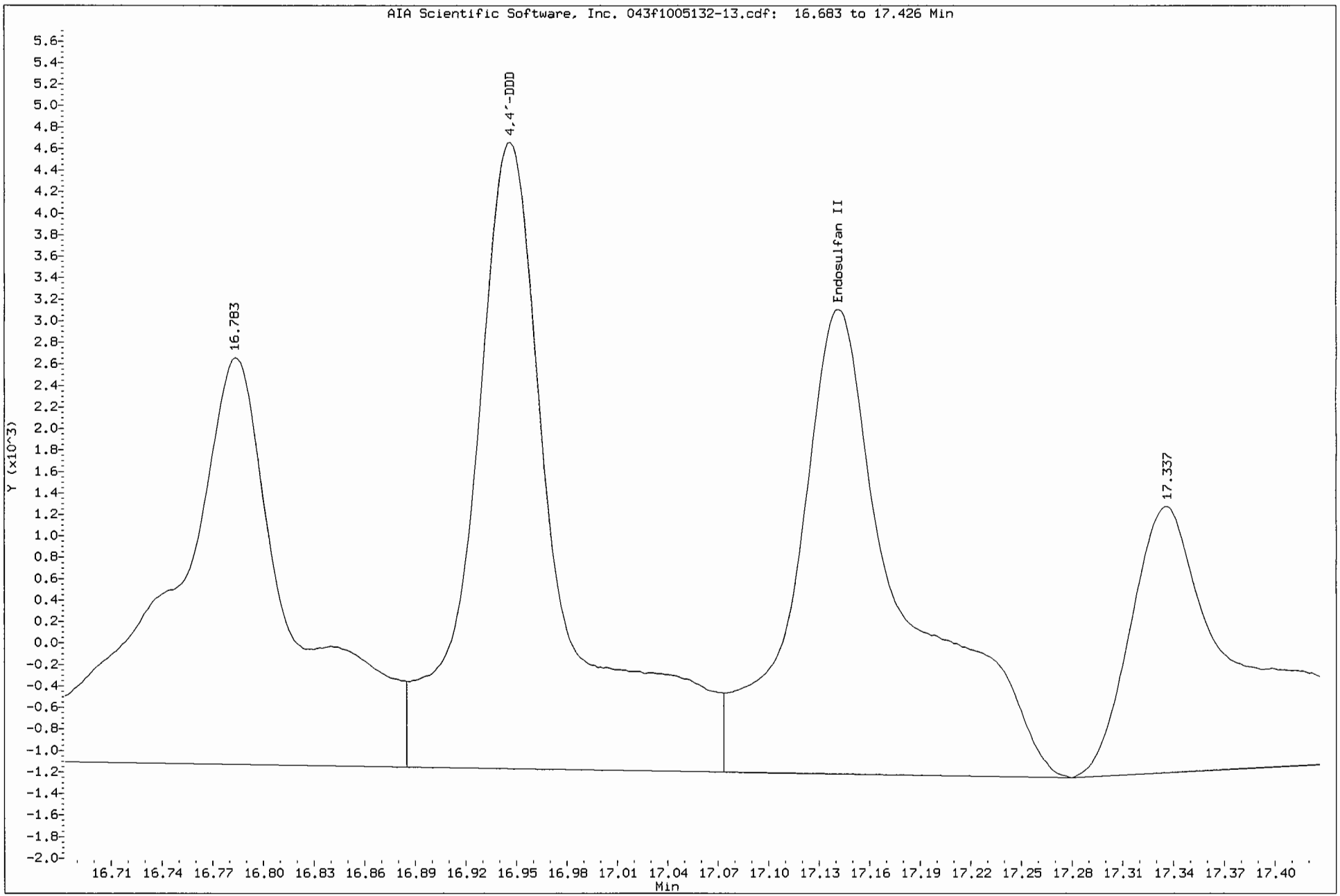


Start: 16.89 Stop: 17.00



Start: 17.07 Stop: 17.19

Data File: /chem/tracegc82.i/f100601c_2C.b/043f1005132-13.d/043f1005132-13.cdf
Injection Date: 02-JUN-2010 12:12
Instrument: tracegc82.i
Client Sample ID: SS84-0-1



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS84-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 5 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	8.9	U
319-85-7	beta-BHC	8.9	U
319-84-6	alpha-BHC	8.9	U
319-86-8	delta-BHC	8.9	U
58-89-9	gamma-BHC (Lindane)	8.9	U
72-54-8	4,4'-DDD	5.5	DJ
72-55-9	4,4'-DDE	34	D
50-29-3	4,4'-DDT	14	DJ
60-57-1	Dieldrin	17	U
959-98-8	Endosulfan I	8.9	U
33213-65-9	Endosulfan II	17	U
1031-07-8	Endosulfan sulfate	17	U
72-20-8	Endrin	17	U
7421-93-4	Endrin Aldehyde	17	U
76-44-8	Heptachlor	8.9	U
1024-57-3	Heptachlor Epoxide	8.9	U
72-43-5	Methoxychlor	89	U
8001-35-2	Toxaphene	440	U
53494-70-5	Endrin Ketone	17	U
5103-74-2	gamma-Chlordane	8.9	U
5103-71-9	alpha-Chlordane	8.9	U

Data File: /chem/tracegc82.i/f100601g.b/098f1005132-13.d

Page 1

Date : 03-JUN-2010 17:10

Client ID: SS84-0-1DL

Instrument: tracegc82.i

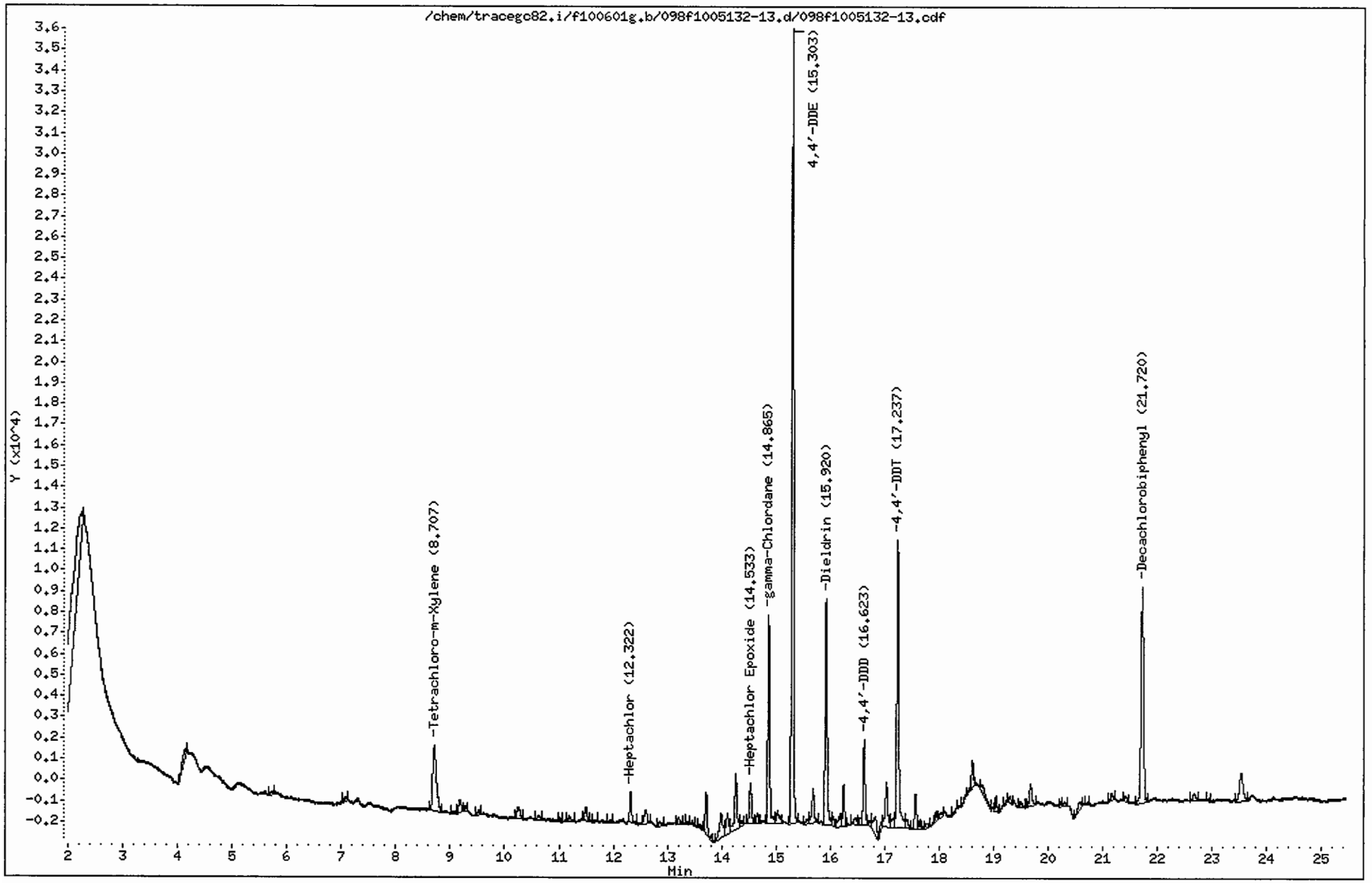
Sample Info: 1005132-13RE1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-13RE1 Client Smp Id : SS84-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:10 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS84-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
0.03			331								
1.47			99228								
2.23			23844								
4.14			2637								
5.72			505								
7.07			562								
8.71	8.63	8.77	14900	1587700	Tetrachloro-m-Xylene	0.009385	8.232147		78.2	70 - 125	
9.08			379								
9.18			2143								
9.27			644								
9.53			729								
10.26			2168								
10.62			642								
11.01			353								
11.20			736								
11.50			1859								
11.66			406								
11.94			453								
12.32	12.27	12.41	3720	2589888	Heptachlor	0.001436	1.259961	8.947368			J
12.60			2582								
12.86			883								
13.21			982								
13.37			463								
13.46			427								
13.59			464								
13.71			4961								
13.99			5207								
14.11			3478								
14.26			8292								
14.38			678								
14.53	14.44	14.58	5274	2235460	Heptachlor Epoxide	0.002359	2.069514	8.947368			J
14.66			1306								
14.86	14.73	14.87	23811	2245768	gamma-Chlordane	0.010603	9.300536	8.947368			
15.03			2248								
15.30	15.23	15.37	88753	2012896	4,4'-DDE	0.044092	38.67736	17.36842			
15.59			1005								
15.68			5140								

Kelt 6/4/10

CompuChem

Lab Smp Id : 1005132-13RE1 Client Smp Id : SS84-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:10 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS84-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
15.92	15.87 16.01	27759	2037205	Dieldrin	0.013626	11.95222	17.36842			J
16.06		1114								
16.18		1937								
16.25		4463								
16.46		1188								
16.55		961								
16.62	16.55 16.69	9696	1534440	4,4'-DDD	0.006319	5.542910	17.36842			J
16.73		774								
16.82		3286								
16.94		1037								
17.04		7104								
17.16		1666								
17.24	17.16 17.30	36677	1722489	4,4'-DDT	0.021292	18.67758	17.36842			
17.41		1339								
17.57		4406								
17.65		983								
17.77		751								
17.94		1052								
18.02		574								
18.32		341								
18.49		327								
18.61		3887								
18.78		1629								
19.04		1573								
19.24		389								
19.30		840								
19.48		934								
19.68		3553								
20.22		448								
20.30		527								
20.57		1645								
20.74		324								
21.17		1046								
21.41		716								
21.72	21.64 21.78	33267	1622138	Decachlorobiphenyl	0.020508	17.98957		85.5	55 - 130	
22.68		1146								
22.92		365								

CompuChem

Lab Smp Id : 1005132-13RE1 Client Smp Id : SS84-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:10 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS84-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
23.53		6302								

Data File: /chem/tracegc82.i/f100601g_2C.b/098f1005132-13.d

Date : 03-JUN-2010 17:10

Client ID: SS84-0-1DL

Instrument: tracegc82.i

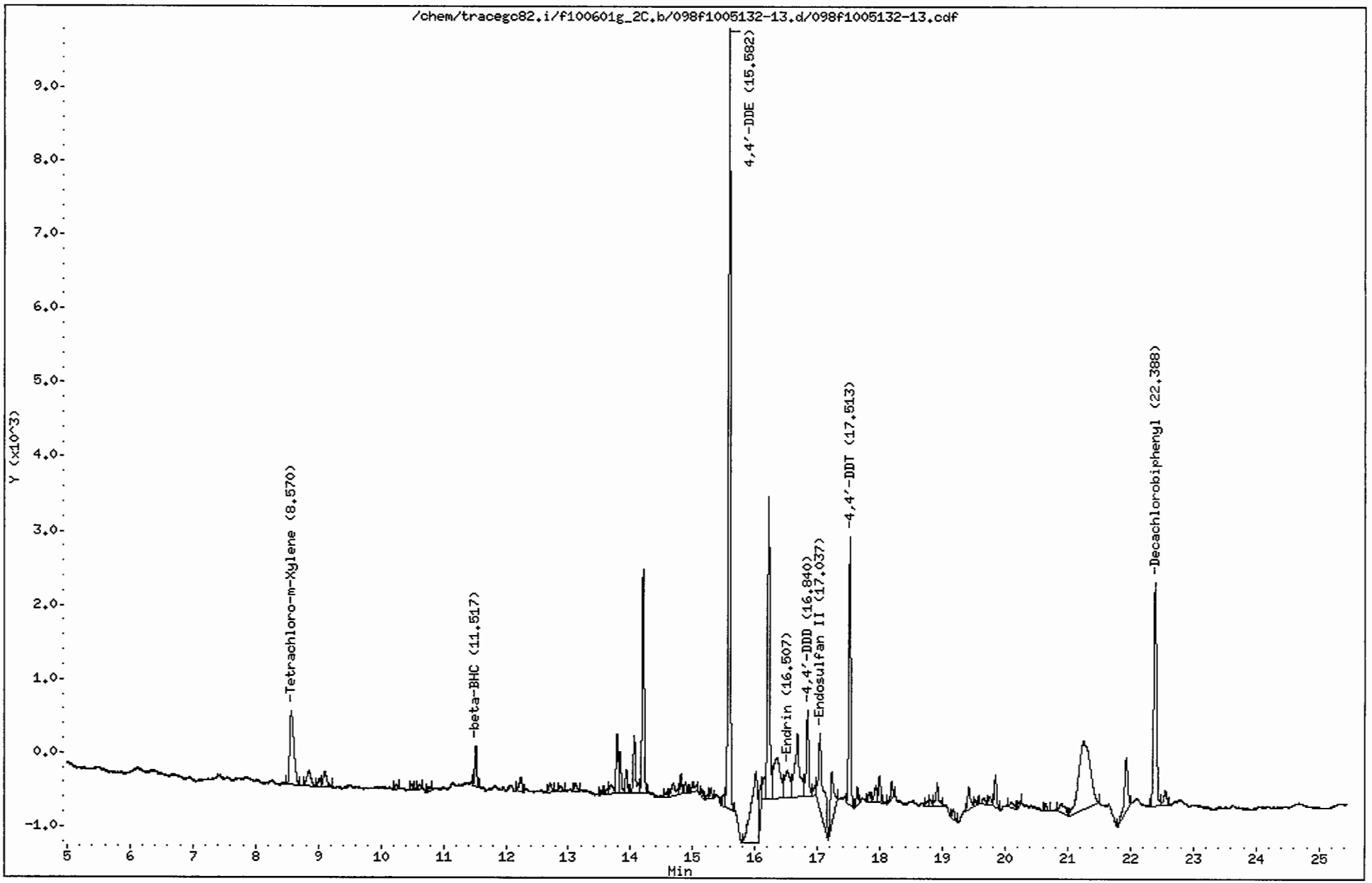
Sample Info: 1005132-13RE1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-13RE1 Client Smp Id : SS84-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:10 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS84-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.34		659								
1.48		74886								
2.00		168181								
3.45		973								
8.57	8.49 8.63	4587	548876	Tetrachloro-m-Xylene	0.008355	7.329173		69.6*	70 - 125	R
8.85		935								
9.01		367								
9.10		864								
10.25		146								
10.49		199								
10.61		160								
10.77		192								
11.52	11.40 11.54	1251	347428	beta-BHC	0.003601	3.158554	4.478947			J
12.24		602								
12.71		401								
12.87		193								
13.11		288								
13.52		124								
13.62		147								
13.69		500								
13.78		1825								
13.83		1411								
13.93		756								
14.06		2217								
14.20		6785								
14.57		139								
14.69		823								
14.81		540								
14.88		323								
15.00		518								
15.15		196								
15.23		140								
15.29		346								
15.49		429								
15.58	15.51 15.65	23608	617325	4,4'-DDE	0.038241	33.54456	17.36842			
16.02		6669								
16.10		1487								

Keff 6/4/10

CompuChem

Lab Smp Id : 1005132-13RE1 Client Smp Id : SS84-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 17:10 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS84-0-1DL

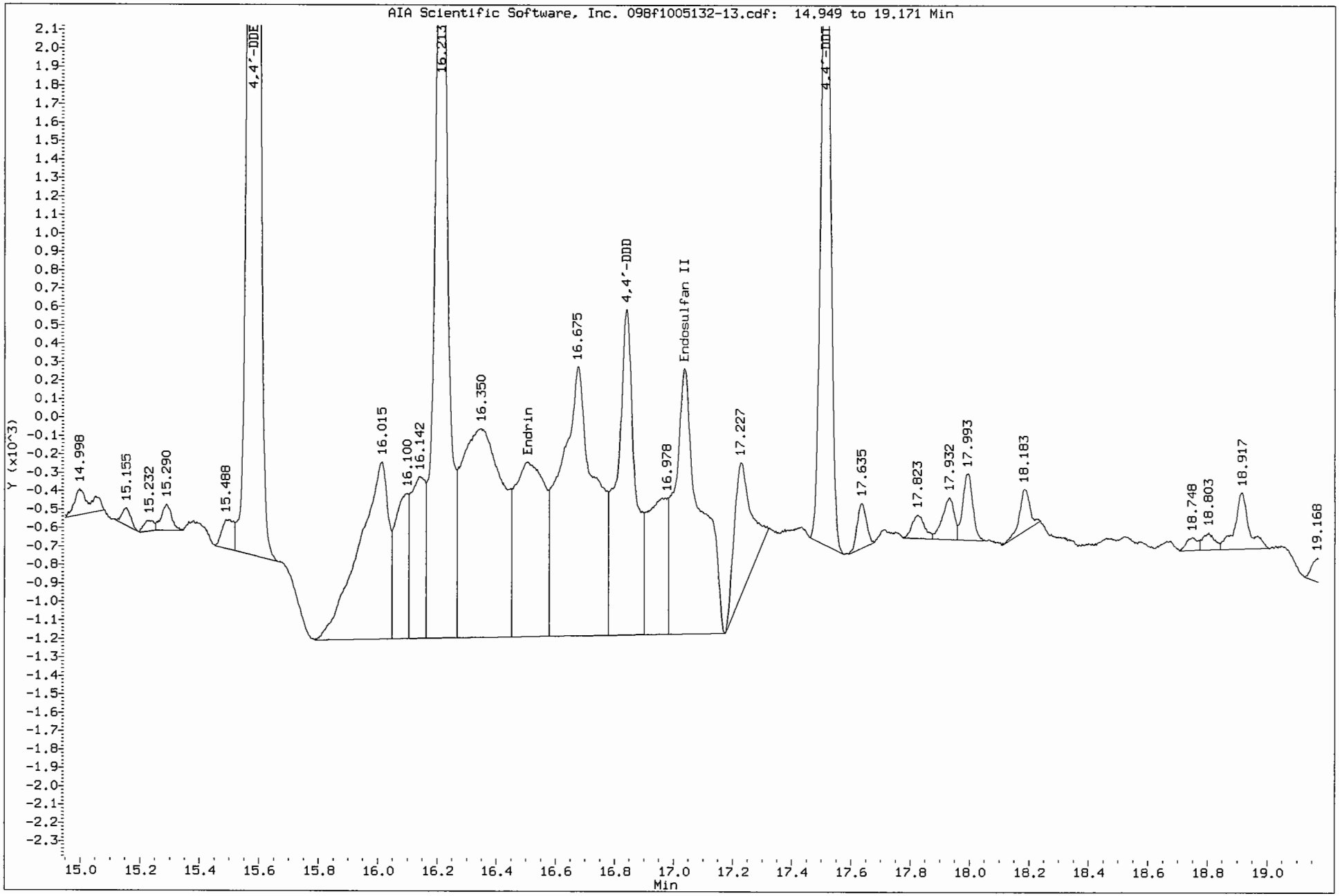
Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 5.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 5(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.14		931								
16.21		10321								
16.35		4415								
16.51	16.49 16.63	2179	524785	Endrin	0.004151	3.641508	17.36842			J
16.68		4680								
16.84	16.76 16.90	3165	454222	4,4'-DDD	0.006967	6.111658	17.36842			J
16.98		504								
17.04	16.95 17.09	5106	526756	Endosulfan II	0.009693	8.502551	17.36842			J
17.23		2764								
17.51	17.44 17.58	8193	503765	4,4'-DDT	0.016264	14.26626	17.36842			J
17.64		531								
17.82		373								
17.93		627								
17.99		861								
18.18		552								
18.75		184								
18.80		262								
18.92		1031								
19.17		381								
19.42		986								
19.52		191								
19.66		308								
19.75		371								
19.85		1118								
20.10		308								
20.24		146								
20.65		248								
20.89		783								
21.25		11635								
21.93		2924								
22.39	22.31 22.45	9506	497254	Decachlorobiphenyl	0.019115	16.76751		79.6	55 - 130	
22.56		646								

MZ
KEH 6/4/10

Data File: /chem/tracegc82.i/f100601g_2C.b/098f1005132-13.d/098f1005132-13.cdf
Injection Date: 03-JUN-2010 17:10
Instrument: tracegc82.i
Client Sample ID: SS84-0-1DL



1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SS86-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	2.0	U
319-85-7	beta-BHC	2.0	U
319-84-6	alpha-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
72-54-8	4,4'-DDD	5.6	
72-55-9	4,4'-DDE	67	E
50-29-3	4,4'-DDT	12	
60-57-1	Dieldrin	160	E
959-98-8	Endosulfan I	2.0	U
33213-65-9	Endosulfan II	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
72-20-8	Endrin	1.2	JP
7421-93-4	Endrin Aldehyde	3.8	U
76-44-8	Heptachlor	0.37	JP
1024-57-3	Heptachlor Epoxide	0.50	JP
72-43-5	Methoxychlor	20	U
8001-35-2	Toxaphene	95	U
53494-70-5	Endrin Ketone	3.8	U
5103-74-2	gamma-Chlordane	4.1	
5103-71-9	alpha-Chlordane	5.0	P

Data File: /chem/tracegc82.i/f100601b.b/037f1005132-11.d

Date : 02-JUN-2010 09:17

Client ID: SS86-0-1

Instrument: tracegc82.i

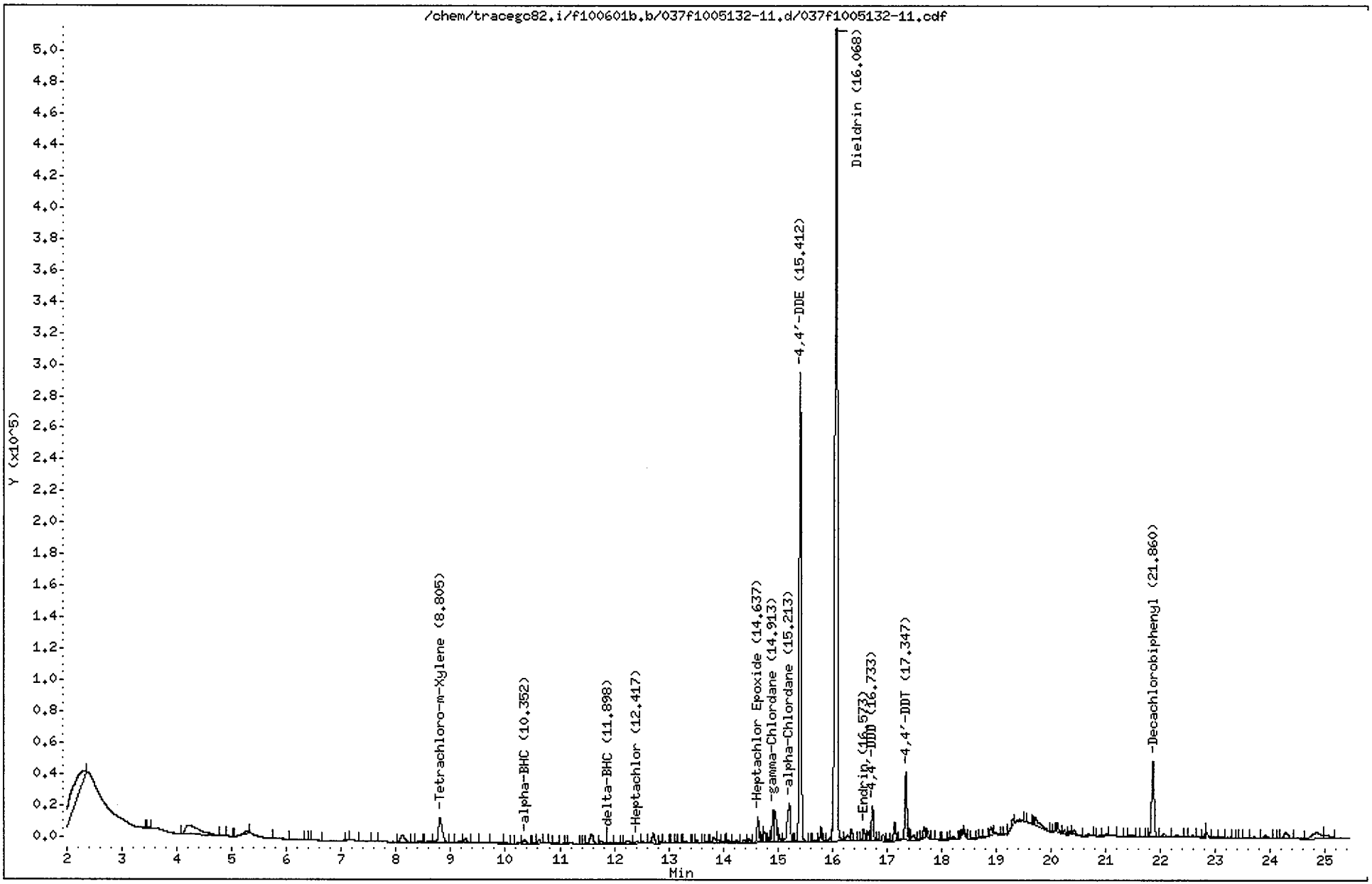
Sample Info: 1005132-11

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-11 Client Smp Id : SS86-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 09:17 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS86-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
0.69		580								
1.48		46497								
2.30		137563								
3.45		386								
3.49		997								
4.20		111419								
4.91		1181								
5.27		6725								
5.82		6762								
6.33		321								
6.43		375								
6.51		4708								
7.13		579								
7.37		3123								
7.64		755								
8.11		24519								
8.42		1734								
8.59		2880								
8.80	8.73 8.87	77755	1587700	Tetrachloro-m-Xylene	0.048973	9.381752		81.6	70 - 125	
9.17		5113								
9.27		9981								
9.60		2225								
9.80		6991								
9.97		3167								
10.14		501								
10.35	10.32 10.46	7773	3028788	alpha-BHC	0.002566	0.491642	1.954023			J
10.54		695								
10.61		7672								
10.73		1608								
10.91		1877								
11.12		297								
11.40		320								
11.47		571								
11.58		28052								
11.76		5848								
11.90	11.85 11.99	3123	2721052	delta-BHC	0.001147	0.219799	1.954023			J
12.05		1862								

6/2/10

CompuChem

Lab Smp Id : 1005132-11 Client Smp Id : SS86-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 09:17 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS86-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.25		6907								
12.42	12.38 12.52	5038	2589888	Heptachlor	0.001945	0.372655	1.954023			J
12.52		2661								
12.72		21959								
12.86		3720								
12.94		2774								
13.07		854								
13.14		1374								
13.18		848								
13.31		4465								
13.46		655								
13.52		3811								
13.70		1285								
13.83		10782								
13.91		4458								
14.00		1691								
14.05		311								
14.10		3116								
14.25		3881								
14.38		5424								
14.48		6259								
14.64	14.56 14.70	42956	2235460	Heptachlor Epoxide	0.019215	3.681089	1.954023			
14.72		10361								
14.76		17102								
14.85		6479								
14.91	14.84 14.98	48625	2245768	gamma-Chlordane	0.021651	4.147777	1.954023			
14.95		48518								
15.02		10618								
15.21	15.15 15.29	97991	1924148	alpha-Chlordane	0.050926	9.756025	1.954023			
15.33		922								
15.41	15.34 15.48	760161	2012896	4,4'-DDE	0.377645	72.34577	3.793103			E
15.58		537								
15.69		4010								
15.79		20565								
15.86		386								
15.96		5445								
16.07	15.99 16.13	1680976	2037205	Dieldrin	0.825138	158.0725	3.793103			E

CompuChem

Lab Smp Id : 1005132-11 Client Smp Id : SS86-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 09:17 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS86-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.29		16809								
16.35		18337								
16.57	16.51 16.65	19927	1695798	Endrin	0.011751	2.251114	3.793103			J
16.66		12190								
16.73	16.66 16.80	50912	1534440	4,4'-DDD	0.033180	6.356232	3.793103			
16.83		1294								
16.93		12836								
17.02		3322								
17.14		31528								
17.26		2111								
17.35	17.27 17.41	105364	1722489	4,4'-DDT	0.061170	11.71837	3.793103			
17.49		12782								
17.68		16538								
17.75		9551								
17.91		2111								
18.06		2617								
18.14		365								
18.21		4918								
18.37		7447								
18.42		7319								
18.59		1639								
18.72		1747								
18.83		1135								
18.90		12933								
19.00		1846								
19.09		712								
19.30		11352								
19.42		8171								
19.56		2429								
19.72		35299								
20.00		742								
20.06		498								
20.11		14912								
20.25		6026								
20.34		5199								
20.42		13114								
20.69		6236								

MZ
KPH
6/2/10

CompuChem

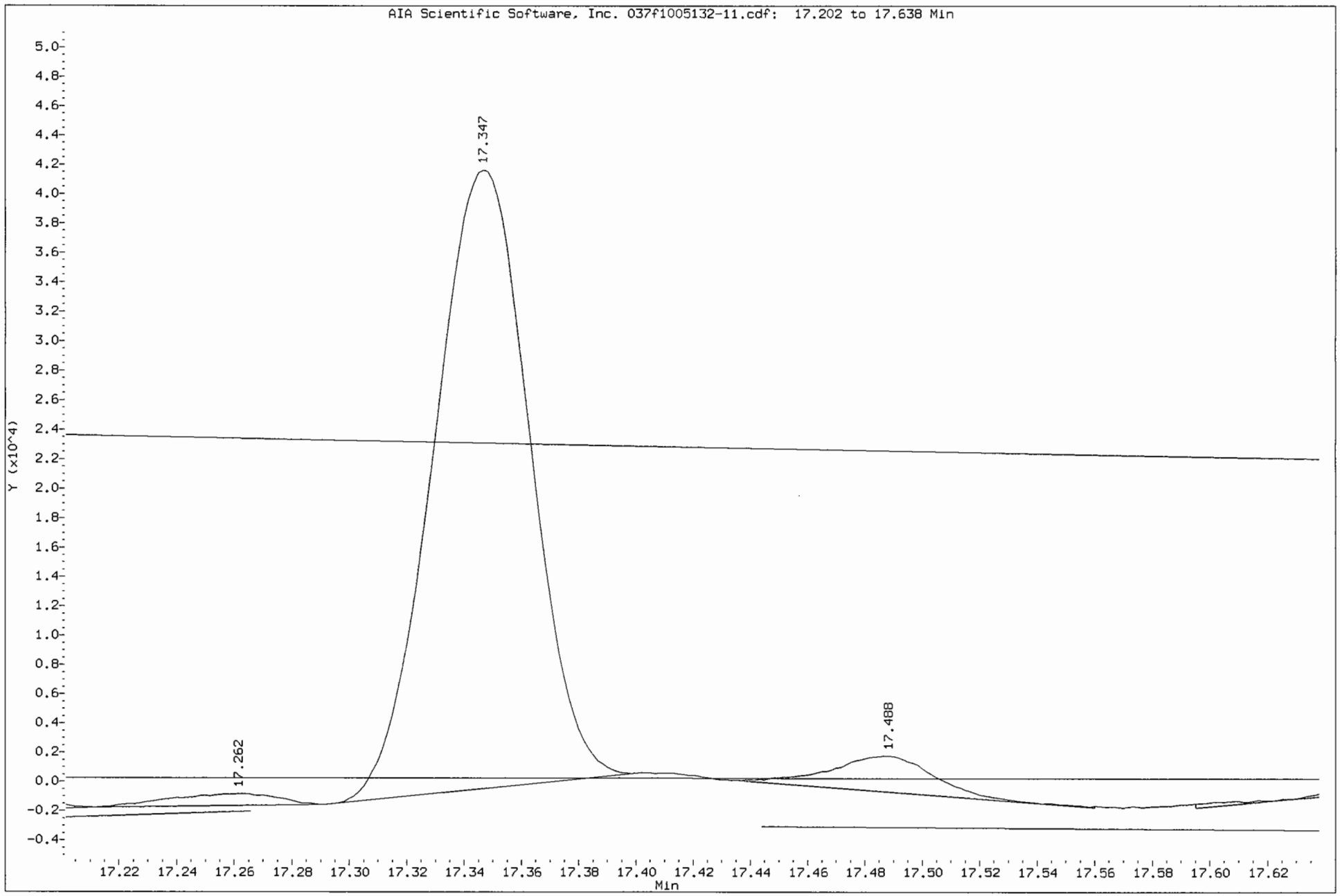
Lab Smp Id : 1005132-11 Client Smp Id : SS86-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 09:17 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : SS86-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.80		1166								
21.00		2526								
21.09		1640								
21.37		909								
21.46		3024								
21.67		1497								
21.77		447								
21.86	21.79 21.93	151468	1622138	Decachlorobiphenyl	0.093376	17.88803		77.8	55 - 130	
22.05		11027								
22.29		7874								
22.57		3964								
22.69		720								
22.83		6449								
22.97		1644								
23.10		2175								
23.30		362								
23.45		304								
23.70		3862								
23.90		8770								
24.07		406								
24.28		18900								
24.83		37882								
25.02		12760								

Data File: /chem/tracegc82.i/f100601b.b/037f1005132-11.d/037f1005132-11.cdf
Injection Date: 02-JUN-2010 09:17
Instrument: tracegc82.i
Client Sample ID: SS86-0-1



Data File: /chem/tracegc82.i/f100601b_2C.b/037f1005132-11.d

Date : 02-JUN-2010 09:17

Client ID: SS86-0-1

Instrument: tracegc82.i

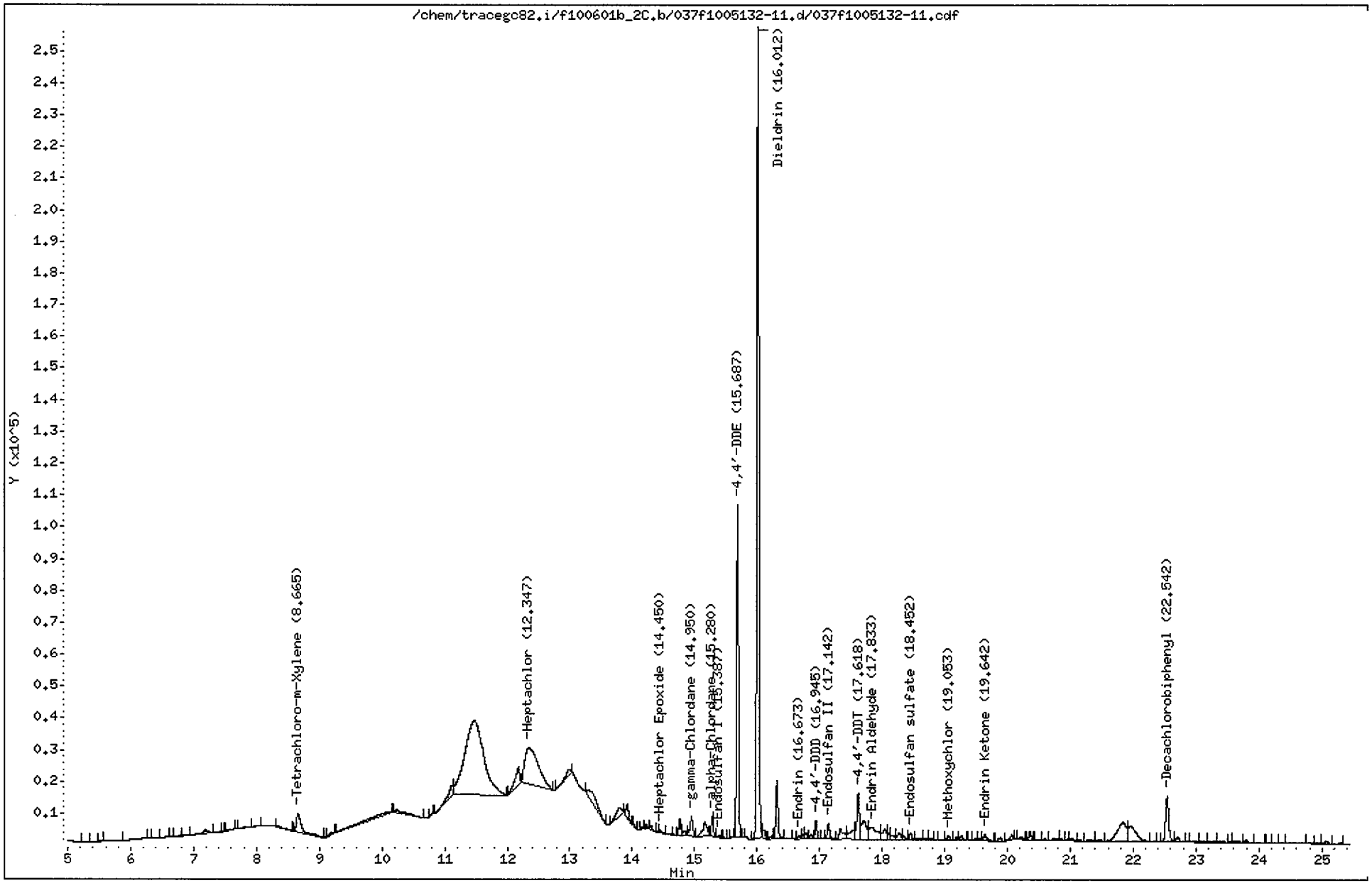
Sample Info: 1005132-11

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-11 Client Smp Id : SS86-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 09:17 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS86-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			353								
1.54			17551								
1.65			2907								
2.08			41547								
3.51			21654								
4.68			308								
4.82			288								
5.30			223								
5.56			121								
6.24			1612								
6.30			300								
6.60			314								
6.78			424								
7.19			5451								
7.48			281								
7.65			433								
7.91			1715								
8.02			1354								
8.33			1547								
8.66	8.59	8.73	29642	548876	Tetrachloro-m-Xylene	0.054005	10.34577		90.0	70 - 125	
9.21			1810								
10.12			14831								
10.24			9214								
10.79			1005								
11.11			16013								
11.47			491641								
12.18			26490								
12.35	12.33	12.47	168833	778205	Heptachlor	0.216950	41.56140	1.954023			E
12.99			10929								
13.28			30247								
13.80			17473								
13.92			11873								
14.02			1321								
14.15			1375								
14.22			2710								
14.30			3442								
14.45	14.45	14.59	1783	683115	Heptachlor Epoxide	0.002609	0.499739	1.954023			J

6/2/10

CompuChem

Lab Smp Id : 1005132-11 Client Smp Id : SS86-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 09:17 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS86-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
14.67		383								
14.76		12897								
14.85		4524								
14.95	14.88 15.02	19253	690205	gamma-Chlordane	0.027893	5.343518	1.954023			
15.16		23594								
15.28	15.21 15.35	15712	595455	alpha-Chlordane	0.026387	5.054894	1.954023			
15.39	15.33 15.47	1480	638725	Endosulfan I	0.002317	0.443892	1.954023			J
15.47		493								
15.61		330								
15.69	15.61 15.75	214935	617325	4,4'-DDE	0.348172	66.69953	3.793103			E
15.82		1385								
16.01	15.94 16.08	572631	598394	Dieldrin	0.956947	183.3231	3.793103			E
16.09		9570								
16.25		2739								
16.32		41236								
16.59		259								
16.67	16.60 16.74	3352	524785	Endrin	0.006385	1.223271	3.793103			J
16.74		2779								
16.78		5078								
16.87		3420								
16.94	16.87 17.01	13296	454222	4,4'-DDD	0.029270	5.607241	3.793103			
17.06		753								
17.14	17.07 17.21	15077	526756	Endosulfan II	0.028622	5.483208	3.793103			
17.33		17626								
17.55		18329								
17.62	17.55 17.69	42020	503765	4,4'-DDT	0.083410	15.97891	3.793103			
17.71		35141								
17.83	17.81 17.95	34325	425754	Endrin Aldehyde	0.080622	15.44477	3.793103			
18.04		12976								
18.09		6160								
18.17		5830								
18.27		7583								
18.34		3713								
18.45	18.40 18.54	4977	479624	Endosulfan sulfate	0.010377	1.987909	3.793103			J
18.57		1539								
18.68		1227								
18.78		920								

CompuChem

Lab Smp Id : 1005132-11 Client Smp Id : SS86-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 09:17 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS86-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.85		251								
19.05	19.03 19.17	3667	208391	Methoxychlor	0.017597	3.371021	19.54023			J
19.19		1494								
19.26		3729								
19.41		353								
19.49		522								
19.57		305								
19.64	19.55 19.69	6211	535815	Endrin Ketone	0.011590	2.220272	3.793103			J
19.88		4365								
20.07		4453								
20.20		3282								
20.36		6681								
20.51		656								
20.60		953								
20.76		3716								
20.86		1355								
20.95		1100								
21.02		2466								
21.15		588								
21.30		2231								
21.44		1046								
21.83		59506								
21.96		42430								
22.31		559								
22.54	22.47 22.61	49219	497254	Decachlorobiphenyl	0.098979	18.96159		82.5	55 - 130	
22.71		6074								
22.86		617								
22.94		2116								
23.13		2280								
23.22		2237								
23.41		2179								
23.56		600								
23.64		2475								
23.80		2879								
23.99		485								
24.18		217								
24.25		491								

CompuChem

Lab Smp Id : 1005132-11 Client Smp Id : SS86-0-1
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 02-JUN-2010 09:17 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : SS86-0-1

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
24.35		642								
24.81		288								
24.94		557								
25.07		3026								
25.27		370								

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

SS86-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-11RE1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 13 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	20	U
319-85-7	beta-BHC	20	U
319-84-6	alpha-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
72-54-8	4,4'-DDD	5.8	DJ
72-55-9	4,4'-DDE	59	D
50-29-3	4,4'-DDT	11	DJP
60-57-1	Dieldrin	150	D
959-98-8	Endosulfan I	20	U
33213-65-9	Endosulfan II	38	U
1031-07-8	Endosulfan sulfate	38	U
72-20-8	Endrin	38	U
7421-93-4	Endrin Aldehyde	38	U
76-44-8	Heptachlor	20	U
1024-57-3	Heptachlor Epoxide	20	U
72-43-5	Methoxychlor	200	U
8001-35-2	Toxaphene	950	U
53494-70-5	Endrin Ketone	38	U
5103-74-2	gamma-Chlordane	4.2	DJP
5103-71-9	alpha-Chlordane	5.3	DJP

Data File: /chem/tracegc82.i/f100601g.b/097f1005132-11.d

Date : 03-JUN-2010 16:41

Client ID: SS86-0-1DL

Instrument: tracegc82.i

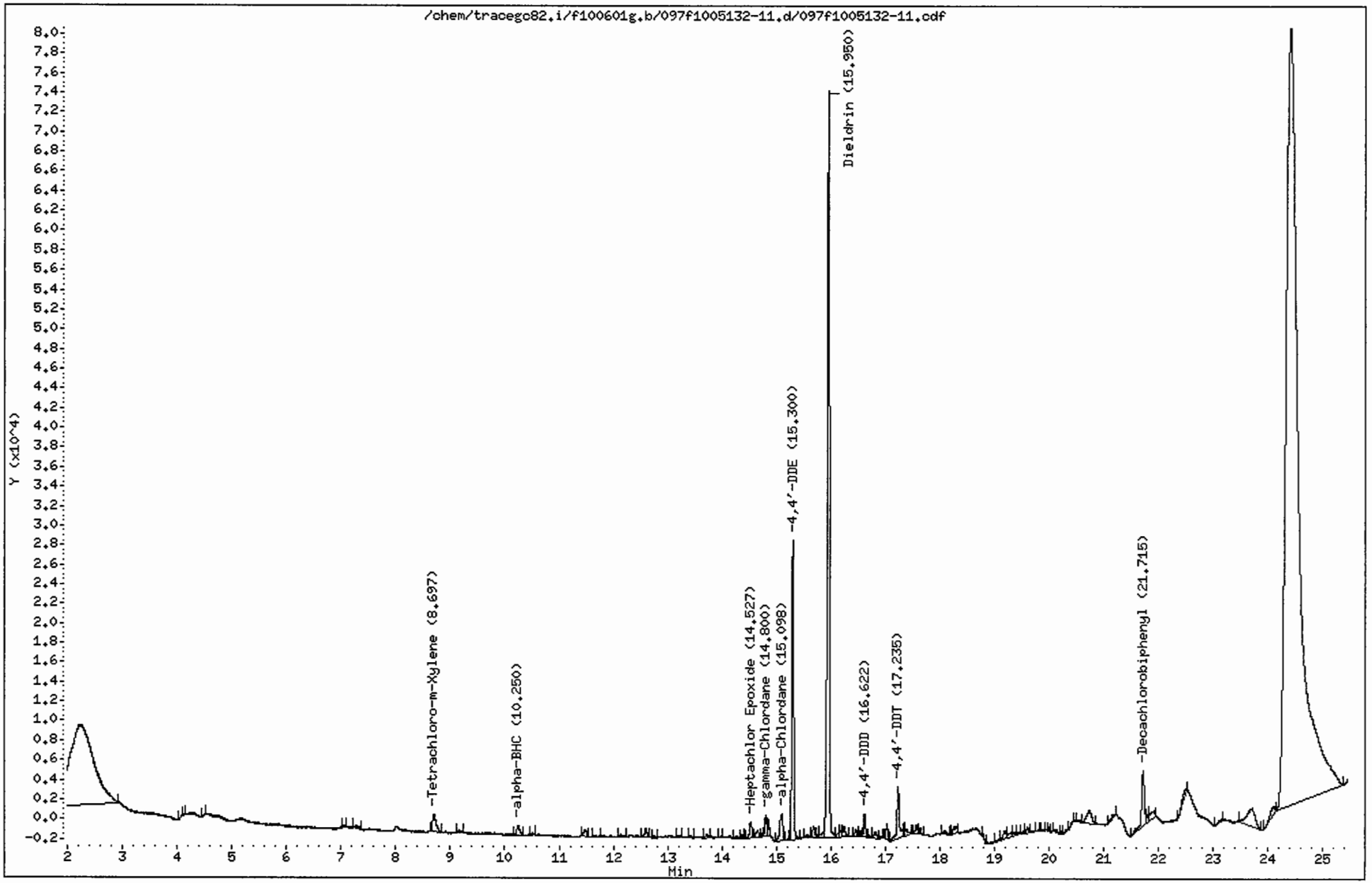
Sample Info: 1005132-11RE1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-11RE1 Client Smp Id : SS86-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:41 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS86-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.24			516								
1.36			3996								
1.46			98355								
2.23			244027								
4.10			531								
4.12			321								
4.51			364								
7.07			312								
7.29			1125								
8.70	8.63	8.77	8241	1587700	Tetrachloro-m-Xylene	0.005191	9.943542		86.5	70 - 125	
9.17			1110								
10.25	10.21	10.35	3652	3028788	alpha-BHC	0.001206	2.309891	19.54023			J
10.50			452								
11.48			2508								
11.65			702								
12.14			767								
12.60			2363								
12.75			508								
13.21			477								
13.41			569								
13.72			1154								
13.98			357								
14.28			741								
14.37			760								
14.53	14.44	14.58	4687	2235460	Heptachlor Epoxide	0.002097	4.016590	19.54023			J
14.65			2573								
14.74			596								
14.80	14.73	14.87	4918	2245768	gamma-Chlordane	0.002190	4.195205	19.54023			J
14.85			3530								
15.10	15.03	15.17	10765	1924148	alpha-Chlordane	0.005594	10.71679	19.54023			J
15.30	15.23	15.37	72296	2012896	4,4'-DDE	0.035916	68.80538	37.93103			
15.58			1272								
15.68			3134								
15.77			764								
15.86			1948								
15.95	15.87	16.01	198876	2037205	Dieldrin	0.097621	187.0144	37.93103			
16.14			866								

6/4/10

CompuChem

Lab Smp Id : 1005132-11RE1 Client Smp Id : SS86-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:41 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS86-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.17		1679								
16.24		3191								
16.46		1862								
16.54		1396								
16.62	16.55 16.69	5295	1534440	4,4'-DDD	0.003451	6.610671	37.93103			J
16.71		530								
16.82		2259								
16.91		423								
17.03		3484								
17.24	17.16 17.30	16270	1722489	4,4'-DDT	0.009445	18.09397	37.93103			J
17.34		643								
17.38		2414								
17.57		2220								
17.64		1663								
18.09		1527								
18.26		2447								
18.79		799								
19.11		613								
19.18		3198								
19.29		2403								
19.38		1312								
19.45		1289								
19.52		739								
19.60		1432								
19.78		290								
19.89		333								
19.99		914								
20.13		979								
20.23		488								
20.31		403								
20.44		594								
20.52		738								
20.74		8811								
21.18		1900								
21.72	21.64 21.78	20650	1622138	Decachlorobiphenyl	0.012730	24.38718		106.1	55 - 130	
21.83		2267								
21.89		3917								

CompuChem

Lab Smp Id : 1005132-11RE1 Client Smp Id : SS86-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:41 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : SS86-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
22.50		4361								
23.14		902								
23.69		18600								
24.10		5480								
24.41		1305490								

Data File: /chem/tracegc82.i/f100601g_2C.b/097f1005132-11.d

Page 1

Date : 03-JUN-2010 16:41

Client ID: SS86-0-1DL

Instrument: tracegc82.i

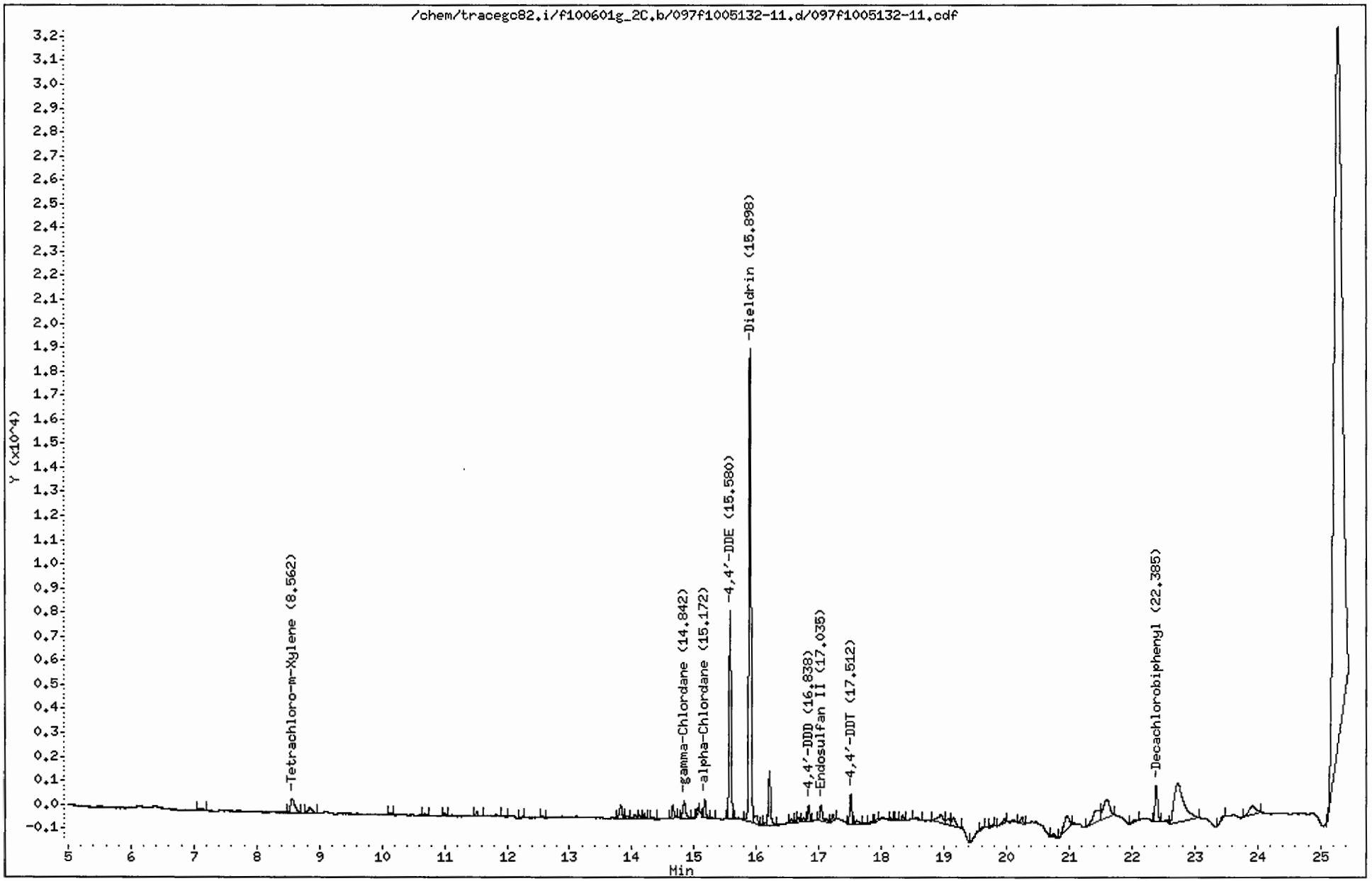
Sample Info: 1005132-11RE1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 1005132-11RE1 Client Smp Id : SS86-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:41 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS86-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.34			1057								
1.49			61961								
1.99			123144								
3.79			131								
7.10			461								
8.56	8.49	8.63	2684	548876	Tetrachloro-m-Xylene	0.004888	9.364313		81.5	70 - 125	
8.85			953								
10.14			224								
10.69			223								
11.00			307								
11.51			456								
11.95			151								
12.24			129								
12.56			200								
13.82			1722								
13.92			400								
14.05			585								
14.12			442								
14.20			494								
14.34			224								
14.66			1249								
14.84	14.77	14.91	2292	690205	gamma-Chlordane	0.003319	6.358819	19.54023			J
15.05			508								
15.17	15.10	15.24	1650	595455	alpha-Chlordane	0.002771	5.308410	19.54023			J
15.29			164								
15.58	15.51	15.65	18986	617325	4,4'-DDE	0.030754	58.91505	37.93103			
15.90	15.82	15.96	46342	598394	Dieldrin	0.077444	148.3601	37.93103			
15.98			1284								
16.11			139								
16.14			290								
16.21			5615								
16.56			456								
16.64			206								
16.67			493								
16.76			401								
16.84	16.76	16.90	1384	454222	4,4'-DDD	0.003045	5.832880	37.93103			J
17.04	16.95	17.09	2240	526756	Endosulfan II	0.004252	8.146439	37.93103			J

6/4/10

CompuChem

Lab Smp Id : 1005132-11RE1 Client Smp Id : SS86-0-1DL
Sample Type : SAMPLE Sublist : DODPEST
Inj Date : 03-JUN-2010 16:41 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : SS86-0-1DL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 10.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 13(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.23		592								
17.51	17.44 17.58	2800	503765	4,4'-DDT	0.005556	10.64399	37.93103			J
17.61		506								
17.83		132								
17.93		247								
18.16		231								
18.24		178								
18.34		483								
18.56		302								
18.94		2126								
19.07		1112								
19.15		1530								
19.54		424								
19.64		184								
19.78		247								
19.96		505								
20.24		697								
20.76		530								
20.96		3379								
21.47		4370								
21.60		5655								
22.06		355								
22.38	22.31 22.45	4324	497254	Decachlorobiphenyl	0.008694	16.65467		72.4	55 - 130	
22.73		17830								
23.48		562								
23.91		2985								
25.28		269730								

3. Standards Data

a. Initial Calibration Data (Form VI)

b. Continuing Verification Summary (Form VII)

c. Analytical Sequence (Form VIII)

d. Identification Summary for Single Component Analytes (Form X)

e. Identification Summary for Multicomponent Analytes (Form X) – if applicable

f. Chromatograms and Data System Printouts

a. Initial Calibration Data
(Form VI)

For all GC columns, all instruments, in chronological order by GC column and instrument.

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date(s): 06/01/10 06/01/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1716 2011

LAB FILE ID: RF0.0025: 004F0F01RF0.005: 005F0F010RF0.01: 010F0F0101
RF0.02: 007F0F0101RF0.04: 008F0F0101

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	2481400.0	2452300.0	2291300.0	2340025.0	2394575.0
beta-BHC	1143000.0	1046700.0	984700.00	992475.00	1008875.0
alpha-BHC	3030200.0	3033400.0	2886900.0	3026575.0	3166862.5
delta-BHC	2695200.0	2732500.0	2611850.0	2709425.0	2856287.5
gamma-BHC (Lindane)	2816200.0	2819400.0	2691650.0	2817825.0	2941250.0
4,4'-DDD	1553600.0	1595300.0	1490950.0	1480937.5	1551412.5
4,4'-DDE	2052700.0	2073000.0	1905225.0	1944512.5	2089043.8
4,4'-DDT	1744600.0	1782800.0	1668975.0	1664812.5	1751256.2
Dieldrin	2090800.0	2110200.0	1977400.0	1968412.5	2039212.5
Endosulfan I	2170000.0	2213100.0	1966450.0	1950600.0	2039700.0
Endosulfan II	1790500.0	1860900.0	1746000.0	1673775.0	1728025.0
Endosulfan sulfate	1617800.0	1694100.0	1564875.0	1480600.0	1513593.8
Endrin	1751800.0	1775000.0	1672025.0	1616175.0	1663987.5
Endrin Aldehyde	1390800.0	1464450.0	1390600.0	1295500.0	1317875.0
Heptachlor	2719400.0	2647900.0	2453800.0	2532775.0	2595562.5
Heptachlor Epoxide	2363600.0	2327400.0	2157400.0	2147425.0	2181475.0
Methoxychlor	742080.00	792240.00	728975.00	690335.00	703603.75
Toxaphene			74774.000		
(2)			48813.000		
(3)			46604.000		
(4)			57064.000		
(5)			90184.000		
Endrin Ketone	1882300.0	1998900.0	1850625.0	1738850.0	1778131.2
gamma-Chlordane	2391400.0	2345800.0	2145950.0	2153625.0	2192062.5
alpha-Chlordane	2033400.0	1995700.0	1859250.0	1854000.0	1878387.5
Decachlorobiphenyl	1753300.0	1839650.0	1644075.0	1452837.5	1420825.0
Tetrachloro-m-Xylene	1656600.0	1598500.0	1525050.0	1569125.0	1589212.5

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date(s): 06/01/10 06/01/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1716 2011

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	2391920.00	3.3
beta-BHC	AVRG	1035150.00	6.3
alpha-BHC	AVRG	3028787.50	3.3
delta-BHC	AVRG	2721052.50	3.2
gamma-BHC (Lindane)	AVRG	2817265.00	3.1
4,4'-DDD	AVRG	1534440.00	3.1
4,4'-DDE	AVRG	2012896.25	4.1
4,4'-DDT	AVRG	1722488.75	3.1
Dieldrin	AVRG	2037205.00	3.2
Endosulfan I	AVRG	2067970.00	5.7
Endosulfan II	AVRG	1759840.00	4.0
Endosulfan sulfate	AVRG	1574193.75	5.4
Endrin	AVRG	1695797.50	3.9
Endrin Aldehyde	AVRG	1371845.00	4.9
Heptachlor	AVRG	2589887.50	4.0
Heptachlor Epoxide	AVRG	2235460.00	4.6
Methoxychlor	AVRG	731446.750	5.4
Toxaphene	AVRG	74774.0000	0.0
(2)	AVRG	48813.0000	0.0
(3)	AVRG	46604.0000	0.0
(4)	AVRG	57064.0000	0.0
(5)	AVRG	90184.0000	0.0
Endrin Ketone	AVRG	1849761.25	5.4
gamma-Chlordane	AVRG	2245767.50	5.1
alpha-Chlordane	AVRG	1924147.50	4.4
Decachlorobiphenyl	AVRG	1622138.38	11.3
Tetrachloro-m-Xylene	AVRG	1587699.50	3.0

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date(s): 06/01/10 06/01/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1716 2011

LAB FILE ID: RF0.0025: 004F0F01RF0.005: 005F0F010RF0.01: 010F0F0101
RF0.02: 007F0F0101RF0.04: 008F0F0101

COMPOUND	RF0.0025	RF0.005	RF0.01	RF0.02	RF0.04
Aldrin	796200.00	765400.00	694850.00	690025.00	686662.50
beta-BHC	367800.00	365900.00	337350.00	334625.00	331462.50
alpha-BHC	944200.00	933000.00	870800.00	901025.00	933237.50
delta-BHC	875600.00	835500.00	784450.00	803675.00	838750.00
gamma-BHC (Lindane)	899200.00	878200.00	825300.00	852175.00	879537.50
4,4'-DDD	478200.00	482500.00	442925.00	430575.00	436912.50
4,4'-DDE	670700.00	645750.00	587900.00	585500.00	596775.00
4,4'-DDT	532700.00	537350.00	490275.00	474987.50	483512.50
Dieldrin	648500.00	637750.00	580275.00	561200.00	564243.75
Endosulfan I	718000.00	686700.00	619550.00	592625.00	576750.00
Endosulfan II	567700.00	571150.00	522875.00	487712.50	484343.75
Endosulfan sulfate	518600.00	532400.00	477925.00	438187.50	431006.25
Endrin	577600.00	571600.00	515625.00	482487.50	476612.50
Endrin Aldehyde	460900.00	470250.00	432675.00	386400.00	378543.75
Heptachlor	846363.64	820800.00	745450.00	740675.00	737737.50
Heptachlor Epoxide	751000.00	729800.00	662050.00	643250.00	629475.00
Methoxychlor	228160.00	231360.00	206965.00	188595.00	186875.00
Toxaphene			24097.000		
(2)			29381.500		
(3)			12950.000		
(4)			11076.500		
(5)			23619.500		
Endrin Ketone	562500.00	592750.00	538525.00	495137.50	490162.50
gamma-Chlordane	759400.00	740100.00	665950.00	646075.00	639500.00
alpha-Chlordane	661800.00	637800.00	574850.00	557175.00	545650.00
Decachlorobiphenyl	551500.00	577450.00	509350.00	436787.50	411181.25
Tetrachloro-m-Xylene	585400.00	571700.00	525450.00	532200.00	529625.00

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date(s): 06/01/10 06/01/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1716 2011

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2
Aldrin	AVRG	726627.500	7.0
beta-BHC	AVRG	347427.500	5.1
alpha-BHC	AVRG	916452.500	3.3
delta-BHC	AVRG	827595.000	4.2
gamma-BHC (Lindane)	AVRG	866882.500	3.3
4,4'-DDD	AVRG	454222.500	5.3
4,4'-DDE	AVRG	617325.000	6.2
4,4'-DDT	AVRG	503765.000	5.8
Dieldrin	AVRG	598393.750	7.0
Endosulfan I	AVRG	638725.000	9.6
Endosulfan II	AVRG	526756.250	7.9
Endosulfan sulfate	AVRG	479623.750	9.5
Endrin	AVRG	524785.000	9.1
Endrin Aldehyde	AVRG	425753.750	9.8
Heptachlor	AVRG	778205.227	6.6
Heptachlor Epoxide	AVRG	683115.000	7.9
Methoxychlor	AVRG	208391.000	10.1
Toxaphene	AVRG	24097.0000	0.0
(2)	AVRG	29381.5000	0.0
(3)	AVRG	12950.0000	0.0
(4)	AVRG	11076.5000	0.0
(5)	AVRG	23619.5000	0.0
Endrin Ketone	AVRG	535815.000	8.2
gamma-Chlordane	AVRG	690205.000	8.1
alpha-Chlordane	AVRG	595455.000	8.6
Decachlorobiphenyl	AVRG	497254.500	14.4
Tetrachloro-m-Xylene	AVRG	548876.000	5.0

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date(s): 06/01/10 06/01/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1716 2011

LAB FILE ID: RT1: 004F0F01010-CRT2: 005F0F01010-CRT3: 010F0F01010-A
RT4: 007F0F01010-CRT5: 008F0F01010-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	13.180	13.180	13.180	13.180	13.180
beta-BHC	11.480	11.470	11.470	11.480	11.480
alpha-BHC	10.380	10.370	10.370	10.380	10.390
delta-BHC	11.920	11.920	11.920	11.920	11.920
gamma-BHC (Lindane)	11.230	11.220	11.220	11.230	11.230
4,4'-DDD	16.730	16.730	16.730	16.730	16.730
4,4'-DDE	15.400	15.410	15.410	15.410	15.410
4,4'-DDT	17.340	17.350	17.340	17.340	17.340
Dieldrin	16.060	16.060	16.060	16.060	16.060
Endosulfan I	15.520	15.520	15.520	15.520	15.520
Endosulfan II	17.070	17.080	17.080	17.070	17.080
Endosulfan sulfate	18.950	18.950	18.960	18.950	18.950
Endrin	16.570	16.580	16.580	16.580	16.580
Endrin Aldehyde	18.000	18.000	18.000	18.000	18.000
Heptachlor	12.450	12.450	12.450	12.450	12.450
Heptachlor Epoxide	14.620	14.620	14.630	14.630	14.630
Methoxychlor	18.400	18.400	18.400	18.400	18.400
Toxaphene			17.200		
(2)			17.320		
(3)			17.750		
(4)			17.950		
(5)			18.730		
Endrin Ketone	19.560	19.570	19.570	19.570	19.570
gamma-Chlordane	14.910	14.910	14.910	14.910	14.910
alpha-Chlordane	15.210	15.210	15.210	15.210	15.220
Decachlorobiphenyl	21.850	21.860	21.860	21.840	21.860
Tetrachloro-m-Xylene	8.800	8.780	8.780	8.800	8.800

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date(s): 06/01/10 06/01/10

Column: CLPEST ID: 0.32 (mm) Calibration Time(s): 1716 2011

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	13.180	13.113	13.253
beta-BHC	11.476	11.410	11.550
alpha-BHC	10.378	10.317	10.457
delta-BHC	11.920	11.853	11.993
gamma-BHC (Lindane)	11.226	11.163	11.303
4,4'-DDD	16.730	16.662	16.802
4,4'-DDE	15.408	15.338	15.478
4,4'-DDT	17.342	17.275	17.415
Dieldrin	16.060	15.993	16.133
Endosulfan I	15.520	15.452	15.592
Endosulfan II	17.076	17.007	17.147
Endosulfan sulfate	18.952	18.885	19.025
Endrin	16.578	16.508	16.648
Endrin Aldehyde	18.000	17.930	18.070
Heptachlor	12.450	12.382	12.522
Heptachlor Epoxide	14.626	14.557	14.697
Methoxychlor	18.400	18.330	18.470
Toxaphene	17.200	17.133	17.273
(2)	17.320	17.255	17.395
(3)	17.750	17.677	17.817
(4)	17.950	17.878	18.018
(5)	18.730	18.658	18.798
Endrin Ketone	19.568	19.495	19.635
gamma-Chlordane	14.910	14.843	14.983
alpha-Chlordane	15.212	15.147	15.287
Decachlorobiphenyl	21.854	21.785	21.925
Tetrachloro-m-Xylene	8.792	8.730	8.870

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date(s): 06/01/10 06/01/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1716 2011

LAB FILE ID: RT1: 004F0F01010-CRT2: 005F0F01010-CRT3: 010F0F01010-A
RT4: 007F0F01010-CRT5: 008F0F01010-C

COMPOUND	RT1	RT2	RT3	RT4	RT5
Aldrin	13.170	13.170	13.170	13.170	13.170
beta-BHC	11.570	11.560	11.560	11.570	11.570
alpha-BHC	10.390	10.380	10.380	10.390	10.390
delta-BHC	12.290	12.280	12.280	12.290	12.290
gamma-BHC (Lindane)	11.320	11.320	11.320	11.320	11.320
4,4'-DDD	16.940	16.950	16.950	16.940	16.950
4,4'-DDE	15.680	15.680	15.680	15.680	15.680
4,4'-DDT	17.620	17.620	17.620	17.620	17.620
Dieldrin	16.010	16.010	16.010	16.010	16.010
Endosulfan I	15.390	15.390	15.390	15.390	15.400
Endosulfan II	17.140	17.140	17.140	17.140	17.140
Endosulfan sulfate	18.470	18.470	18.470	18.470	18.470
Endrin	16.670	16.670	16.670	16.670	16.670
Endrin Aldehyde	17.870	17.880	17.880	17.870	17.870
Heptachlor	12.400	12.400	12.400	12.400	12.400
Heptachlor Epoxide	14.520	14.520	14.520	14.520	14.520
Methoxychlor	19.100	19.100	19.100	19.100	19.100
Toxaphene			17.320		
(2)			17.890		
(3)			18.450		
(4)			18.650		
(5)			18.990		
Endrin Ketone	19.620	19.620	19.620	19.620	19.620
gamma-Chlordane	14.950	14.950	14.950	14.950	14.950
alpha-Chlordane	15.280	15.280	15.280	15.280	15.280
Decachlorobiphenyl	22.540	22.540	22.540	22.540	22.540
Tetrachloro-m-Xylene	8.660	8.640	8.640	8.660	8.660

FORM VI PEST

FORM 6
PESTICIDE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date(s): 06/01/10 06/01/10

Column: CLPEST2 ID: 0.32 (mm) Calibration Time(s): 1716 2011

COMPOUND	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aldrin	13.170	13.102	13.242
beta-BHC	11.566	11.500	11.640
alpha-BHC	10.386	10.317	10.457
delta-BHC	12.286	12.218	12.358
gamma-BHC (Lindane)	11.320	11.252	11.392
4,4'-DDD	16.946	16.875	17.015
4,4'-DDE	15.680	15.613	15.753
4,4'-DDT	17.620	17.548	17.688
Dieldrin	16.010	15.937	16.077
Endosulfan I	15.392	15.327	15.467
Endosulfan II	17.140	17.070	17.210
Endosulfan sulfate	18.470	18.402	18.542
Endrin	16.670	16.603	16.743
Endrin Aldehyde	17.874	17.805	17.945
Heptachlor	12.400	12.335	12.475
Heptachlor Epoxide	14.520	14.450	14.590
Methoxychlor	19.100	19.028	19.168
Toxaphene	17.320	17.250	17.390
(2)	17.890	17.818	17.958
(3)	18.450	18.378	18.518
(4)	18.650	18.580	18.720
(5)	18.990	18.918	19.058
Endrin Ketone	19.620	19.552	19.692
gamma-Chlordane	14.950	14.882	15.022
alpha-Chlordane	15.280	15.212	15.352
Decachlorobiphenyl	22.540	22.470	22.610
Tetrachloro-m-Xylene	8.652	8.587	8.727

b. Continuing Calibration Summary (Form VII)

For all performance evaluation mixtures (if applicable) and Continuing calibration verification standards, on all GC columns and instruments, in chronological order by GC column and instrument.

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/01/10 Time: 2207

Lab File ID: 014FSEQ-CCV1 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	2391920.0	2305015.0	0.01	-3.63	20.00	AVRG
alpha-BHC	3028787.5	2917530.0	0.01	-3.67	20.00	AVRG
beta-BHC	1035150.0	988885.00	0.01	-4.47	20.00	AVRG
delta-BHC	2721052.5	2643610.0	0.01	-2.85	20.00	AVRG
gamma-BHC (Lindane)	2817265.0	2719535.0	0.01	-3.47	20.00	AVRG
4,4'-DDD	1534440.0	1509110.0	0.01	-1.65	20.00	AVRG
4,4'-DDE	2012896.3	1919502.5	0.01	-4.64	20.00	AVRG
4,4'-DDT	1722488.7	1708226.2	0.01	-0.83	20.00	AVRG
Dieldrin	2037205.0	1992953.8	0.01	-2.17	20.00	AVRG
Endosulfan I	2067970.0	1982260.0	0.01	-4.14	20.00	AVRG
Endosulfan II	1759840.0	1756707.5	0.01	-0.18	20.00	AVRG
Endosulfan sulfate	1574193.8	1563136.2	0.01	-0.70	20.00	AVRG
Endrin	1695797.5	1684813.8	0.01	-0.65	20.00	AVRG
Endrin Aldehyde	1371845.0	1422035.0	0.01	3.66	20.00	AVRG
Heptachlor	2589887.5	2485682.5	0.01	-4.02	20.00	AVRG
Heptachlor Epoxide	2235460.0	2165492.5	0.01	-3.13	20.00	AVRG
Methoxychlor	731446.75	732491.50	0.01	0.14	20.00	AVRG
Endrin Ketone	1849761.2	1863425.0	0.01	0.74	20.00	AVRG
gamma-Chlordane	2245767.5	2159205.0	0.01	-3.85	20.00	AVRG
alpha-Chlordane	1924147.5	1872265.0	0.01	-2.70	20.00	AVRG
Decachlorobiphenyl	1622137.5	1652282.5	0.01	1.86	20.00	AVRG
Tetrachloro-m-Xylene	1587697.5	1546220.0	0.01	-2.61	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/01/10 Time: 2207

Lab File ID: 014FSEQ-CCV1 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	726627.50	704780.00	0.01	-3.01	20.00	AVRG
beta-BHC	347427.50	340735.00	0.01	-1.93	20.00	AVRG
alpha-BHC	916452.50	884130.00	0.01	-3.53	20.00	AVRG
delta-BHC	827595.00	797137.50	0.01	-3.68	20.00	AVRG
gamma-BHC (Lindane)	866882.50	839925.00	0.01	-3.11	20.00	AVRG
4,4'-DDD	454222.50	452805.00	0.01	-0.31	20.00	AVRG
4,4'-DDE	617325.00	603055.00	0.01	-2.31	20.00	AVRG
4,4'-DDT	503765.00	503602.50	0.01	-0.03	20.00	AVRG
Dieldrin	598393.75	588156.25	0.01	-1.71	20.00	AVRG
Endosulfan I	638725.00	634995.00	0.01	-0.58	20.00	AVRG
Endosulfan II	526756.25	531255.00	0.01	0.85	20.00	AVRG
Endosulfan sulfate	479623.75	486675.00	0.01	1.47	20.00	AVRG
Endrin	524785.00	522648.75	0.01	-0.41	20.00	AVRG
Endrin Aldehyde	425753.75	441310.00	0.01	3.65	20.00	AVRG
Heptachlor	778205.23	759122.50	0.01	-2.45	20.00	AVRG
Heptachlor Epoxide	683115.00	670355.00	0.01	-1.87	20.00	AVRG
Methoxychlor	208391.00	210849.00	0.01	1.18	20.00	AVRG
Endrin Ketone	535815.00	549357.50	0.01	2.53	20.00	AVRG
gamma-Chlordane	690205.00	676047.50	0.01	-2.05	20.00	AVRG
alpha-Chlordane	595455.00	583475.00	0.01	-2.01	20.00	AVRG
Decachlorobiphenyl	497253.75	521877.50	0.01	4.95	20.00	AVRG
Tetrachloro-m-Xylene	548875.00	534435.00	0.01	-2.63	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/02/10 Time: 0426

Lab File ID: 027FSEQ-CCV2 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	2391920.0	2500000.0	0.01	4.52	20.00	AVRG
alpha-BHC	3028787.5	3162050.0	0.01	4.40	20.00	AVRG
beta-BHC	1035150.0	1066300.0	0.01	3.01	20.00	AVRG
delta-BHC	2721052.5	2816750.0	0.01	3.52	20.00	AVRG
gamma-BHC (Lindane)	2817265.0	2946450.0	0.01	4.58	20.00	AVRG
4,4'-DDD	1534440.0	1569800.0	0.01	2.30	20.00	AVRG
4,4'-DDE	2012896.3	2026550.0	0.01	0.68	20.00	AVRG
4,4'-DDT	1722488.7	1729850.0	0.01	0.43	20.00	AVRG
Dieldrin	2037205.0	2077050.0	0.01	1.96	20.00	AVRG
Endosulfan I	2067970.0	2094300.0	0.01	1.27	20.00	AVRG
Endosulfan II	1759840.0	1761225.0	0.01	0.08	20.00	AVRG
Endosulfan sulfate	1574193.8	1536675.0	0.01	-2.38	20.00	AVRG
Endrin	1695797.5	1701325.0	0.01	0.32	20.00	AVRG
Endrin Aldehyde	1371845.0	1401675.0	0.01	2.17	20.00	AVRG
Heptachlor	2589887.5	2704150.0	0.01	4.41	20.00	AVRG
Heptachlor Epoxide	2235460.0	2305050.0	0.01	3.11	20.00	AVRG
Methoxychlor	731446.75	712835.00	0.01	-2.54	20.00	AVRG
Endrin Ketone	1849761.2	1827625.0	0.01	-1.20	20.00	AVRG
gamma-Chlordane	2245767.5	2301450.0	0.01	2.48	20.00	AVRG
alpha-Chlordane	1924147.5	1993100.0	0.01	3.58	20.00	AVRG
Decachlorobiphenyl	1622137.5	1543150.0	0.01	-4.87	20.00	AVRG
Tetrachloro-m-Xylene	1587697.5	1686450.0	0.01	6.22	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/02/10 Time: 0426

Lab File ID: 027FSEQ-CCV2 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	726627.50	743100.00	0.01	2.27	20.00	AVRG
beta-BHC	347427.50	360000.00	0.01	3.62	20.00	AVRG
alpha-BHC	916452.50	939700.00	0.01	2.54	20.00	AVRG
delta-BHC	827595.00	833950.00	0.01	0.77	20.00	AVRG
gamma-BHC (Lindane)	866882.50	890100.00	0.01	2.68	20.00	AVRG
4,4'-DDD	454222.50	450850.00	0.01	-0.74	20.00	AVRG
4,4'-DDE	617325.00	622425.00	0.01	0.83	20.00	AVRG
4,4'-DDT	503765.00	498700.00	0.01	-1.00	20.00	AVRG
Dieldrin	598393.75	600950.00	0.01	0.43	20.00	AVRG
Endosulfan I	638725.00	649350.00	0.01	1.66	20.00	AVRG
Endosulfan II	526756.25	523125.00	0.01	-0.69	20.00	AVRG
Endosulfan sulfate	479623.75	468775.00	0.01	-2.26	20.00	AVRG
Endrin	524785.00	517575.00	0.01	-1.37	20.00	AVRG
Endrin Aldehyde	425753.75	426025.00	0.01	0.06	20.00	AVRG
Heptachlor	778205.23	804900.00	0.01	3.43	20.00	AVRG
Heptachlor Epoxide	683115.00	697000.00	0.01	2.03	20.00	AVRG
Methoxychlor	208391.00	201835.00	0.01	-3.15	20.00	AVRG
Endrin Ketone	535815.00	526375.00	0.01	-1.76	20.00	AVRG
gamma-Chlordane	690205.00	699450.00	0.01	1.34	20.00	AVRG
alpha-Chlordane	595455.00	605000.00	0.01	1.60	20.00	AVRG
Decachlorobiphenyl	497253.75	484825.00	0.01	-2.50	20.00	AVRG
Tetrachloro-m-Xylene	548875.00	570000.00	0.01	3.85	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/02/10 Time: 1044

Lab File ID: 040FSEQ-CCV3 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	2391920.0	2610640.0	0.01	9.14	20.00	AVRG
alpha-BHC	3028787.5	3320940.0	0.01	9.64	20.00	AVRG
beta-BHC	1035150.0	1046692.5	0.01	1.12	20.00	AVRG
delta-BHC	2721052.5	2962520.0	0.01	8.87	20.00	AVRG
gamma-BHC (Lindane)	2817265.0	3058305.0	0.01	8.56	20.00	AVRG
4,4'-DDD	1534440.0	1605438.8	0.01	4.63	20.00	AVRG
4,4'-DDE	2012896.3	2014605.0	0.01	0.08	20.00	AVRG
4,4'-DDT	1722488.7	1711901.2	0.01	-0.61	20.00	AVRG
Dieldrin	2037205.0	2127763.8	0.01	4.44	20.00	AVRG
Endosulfan I	2067970.0	2055280.0	0.01	-0.61	20.00	AVRG
Endosulfan II	1759840.0	1755483.8	0.01	-0.25	20.00	AVRG
Endosulfan sulfate	1574193.8	1522526.2	0.01	-3.28	20.00	AVRG
Endrin	1695797.5	1804312.5	0.01	6.40	20.00	AVRG
Endrin Aldehyde	1371845.0	1404537.5	0.01	2.38	20.00	AVRG
Heptachlor	2589887.5	2844765.0	0.01	9.84	20.00	AVRG
Heptachlor Epoxide	2235460.0	2366445.0	0.01	5.86	20.00	AVRG
Methoxychlor	731446.75	733136.50	0.01	0.23	20.00	AVRG
Endrin Ketone	1849761.2	1822297.5	0.01	-1.48	20.00	AVRG
gamma-Chlordane	2245767.5	2379410.0	0.01	5.95	20.00	AVRG
alpha-Chlordane	1924147.5	2008112.5	0.01	4.36	20.00	AVRG
Decachlorobiphenyl	1622137.5	1591382.5	0.01	-1.90	20.00	AVRG
Tetrachloro-m-Xylene	1587697.5	1772045.0	0.01	11.61	20.00	AVRG

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/02/10 Time: 1044

Lab File ID: 040FSEQ-CCV3 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	726627.50	775145.00	0.01	6.68	20.00	AVRG
beta-BHC	347427.50	362480.00	0.01	4.33	20.00	AVRG
alpha-BHC	916452.50	991505.00	0.01	8.19	20.00	AVRG
delta-BHC	827595.00	844152.50	0.01	2.00	20.00	AVRG
gamma-BHC (Lindane)	866882.50	920362.50	0.01	6.17	20.00	AVRG
4,4'-DDD	454222.50	461046.25	0.01	1.50	20.00	AVRG
4,4'-DDE	617325.00	637945.00	0.01	3.34	20.00	AVRG
4,4'-DDT	503765.00	495407.50	0.01	-1.66	20.00	AVRG
Dieldrin	598393.75	612227.50	0.01	2.31	20.00	AVRG
Endosulfan I	638725.00	651430.00	0.01	1.99	20.00	AVRG
Endosulfan II	526756.25	519397.50	0.01	-1.40	20.00	AVRG
Endosulfan sulfate	479623.75	462070.00	0.01	-3.66	20.00	AVRG
Endrin	524785.00	543870.00	0.01	3.64	20.00	AVRG
Endrin Aldehyde	425753.75	431050.00	0.01	1.24	20.00	AVRG
Heptachlor	778205.23	866780.00	0.01	11.38	20.00	AVRG
Heptachlor Epoxide	683115.00	713897.50	0.01	4.51	20.00	AVRG
Methoxychlor	208391.00	206445.50	0.01	-0.93	20.00	AVRG
Endrin Ketone	535815.00	523445.00	0.01	-2.31	20.00	AVRG
gamma-Chlordane	690205.00	711860.00	0.01	3.14	20.00	AVRG
alpha-Chlordane	595455.00	606805.00	0.01	1.91	20.00	AVRG
Decachlorobiphenyl	497253.75	479865.00	0.01	-3.50	20.00	AVRG
Tetrachloro-m-Xylene	548875.00	609670.00	0.01	11.08	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/02/10 Time: 1703

Lab File ID: 053FSEQ-CCV4 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	2391920.0	2620080.0	0.01	9.54	20.00	AVRG
alpha-BHC	3028787.5	3314952.5	0.01	9.45	20.00	AVRG
beta-BHC	1035150.0	1018735.0	0.01	-1.58	20.00	AVRG
delta-BHC	2721052.5	2667555.0	0.01	-1.97	20.00	AVRG
gamma-BHC (Lindane)	2817265.0	3040907.5	0.01	7.94	20.00	AVRG
4,4'-DDD	1534440.0	1582542.5	0.01	3.13	20.00	AVRG
4,4'-DDE	2012896.3	1929543.8	0.01	-4.14	20.00	AVRG
4,4'-DDT	1722488.7	1733706.2	0.01	0.65	20.00	AVRG
Dieldrin	2037205.0	2147211.2	0.01	5.40	20.00	AVRG
Endosulfan I	2067970.0	2001037.5	0.01	-3.24	20.00	AVRG
Endosulfan II	1759840.0	1788807.5	0.01	1.65	20.00	AVRG
Endosulfan sulfate	1574193.8	1548675.0	0.01	-1.62	20.00	AVRG
Endrin	1695797.5	1773380.0	0.01	4.57	20.00	AVRG
Endrin Aldehyde	1371845.0	1404705.0	0.01	2.40	20.00	AVRG
Heptachlor	2589887.5	2834360.0	0.01	9.44	20.00	AVRG
Heptachlor Epoxide	2235460.0	2396012.5	0.01	7.18	20.00	AVRG
Methoxychlor	731446.75	751752.50	0.01	2.78	20.00	AVRG
Endrin Ketone	1849761.2	1832870.0	0.01	-0.91	20.00	AVRG
gamma-Chlordane	2245767.5	2360252.5	0.01	5.10	20.00	AVRG
alpha-Chlordane	1924147.5	2035167.5	0.01	5.77	20.00	AVRG
Decachlorobiphenyl	1622137.5	1631845.0	0.01	0.60	20.00	AVRG
Tetrachloro-m-Xylene	1587697.5	1782222.5	0.01	12.25	20.00	AVRG

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/02/10 Time: 1703

Lab File ID: 053FSEQ-CCV4 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	726627.50	765370.00	0.01	5.33	20.00	AVRG
beta-BHC	347427.50	342115.00	0.01	-1.53	20.00	AVRG
alpha-BHC	916452.50	970940.00	0.01	5.94	20.00	AVRG
delta-BHC	827595.00	768502.50	0.01	-7.14	20.00	AVRG
gamma-BHC (Lindane)	866882.50	903990.00	0.01	4.28	20.00	AVRG
4,4'-DDD	454222.50	461762.50	0.01	1.66	20.00	AVRG
4,4'-DDE	617325.00	635072.50	0.01	2.87	20.00	AVRG
4,4'-DDT	503765.00	486110.00	0.01	-3.50	20.00	AVRG
Dieldrin	598393.75	611167.50	0.01	2.13	20.00	AVRG
Endosulfan I	638725.00	652612.50	0.01	2.17	20.00	AVRG
Endosulfan II	526756.25	516815.00	0.01	-1.89	20.00	AVRG
Endosulfan sulfate	479623.75	462522.50	0.01	-3.56	20.00	AVRG
Endrin	524785.00	525041.25	0.01	0.05	20.00	AVRG
Endrin Aldehyde	425753.75	417131.25	0.01	-2.02	20.00	AVRG
Heptachlor	778205.23	817627.50	0.01	5.06	20.00	AVRG
Heptachlor Epoxide	683115.00	711435.00	0.01	4.14	20.00	AVRG
Methoxychlor	208391.00	207552.00	0.01	-0.40	20.00	AVRG
Endrin Ketone	535815.00	525587.50	0.01	-1.91	20.00	AVRG
gamma-Chlordane	690205.00	710430.00	0.01	2.93	20.00	AVRG
alpha-Chlordane	595455.00	608140.00	0.01	2.13	20.00	AVRG
Decachlorobiphenyl	497253.75	497656.25	0.01	0.08	20.00	AVRG
Tetrachloro-m-Xylene	548875.00	598297.50	0.01	9.00	20.00	AVRG

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/02/10 Time: 2321

Lab File ID: 066FSEQ-CCV1 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	2391920.0	2597700.0	0.01	8.60	20.00	AVRG
alpha-BHC	3028787.5	3268550.0	0.01	7.92	20.00	AVRG
beta-BHC	1035150.0	993700.00	0.01	-4.00	20.00	AVRG
delta-BHC	2721052.5	2535250.0	0.01	-6.83	20.00	AVRG
gamma-BHC (Lindane)	2817265.0	3005050.0	0.01	6.66	20.00	AVRG
4,4'-DDD	1534440.0	1624025.0	0.01	5.84	20.00	AVRG
4,4'-DDE	2012896.3	2006650.0	0.01	-0.31	20.00	AVRG
4,4'-DDT	1722488.7	1691850.0	0.01	-1.78	20.00	AVRG
Dieldrin	2037205.0	2123175.0	0.01	4.22	20.00	AVRG
Endosulfan I	2067970.0	2370150.0	0.01	14.61	20.00	AVRG
Endosulfan II	1759840.0	1743275.0	0.01	-0.94	20.00	AVRG
Endosulfan sulfate	1574193.8	1509350.0	0.01	-4.12	20.00	AVRG
Endrin	1695797.5	1751775.0	0.01	3.30	20.00	AVRG
Endrin Aldehyde	1371845.0	1412850.0	0.01	2.99	20.00	AVRG
Heptachlor	2589887.5	2793600.0	0.01	7.86	20.00	AVRG
Heptachlor Epoxide	2235460.0	2359250.0	0.01	5.54	20.00	AVRG
Methoxychlor	731446.75	715035.00	0.01	-2.24	20.00	AVRG
Endrin Ketone	1849761.2	1810750.0	0.01	-2.11	20.00	AVRG
gamma-Chlordane	2245767.5	2333250.0	0.01	3.90	20.00	AVRG
alpha-Chlordane	1924147.5	2025000.0	0.01	5.24	20.00	AVRG
Decachlorobiphenyl	1622137.5	1625050.0	0.01	0.18	20.00	AVRG
Tetrachloro-m-Xylene	1587697.5	1761000.0	0.01	10.92	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/02/10 Time: 2321

Lab File ID: 066FSEQ-CCV1 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	726627.50	755720.00	0.01	4.00	20.00	AVRG
beta-BHC	347427.50	337382.50	0.01	-2.89	20.00	AVRG
alpha-BHC	916452.50	948105.00	0.01	3.45	20.00	AVRG
delta-BHC	827595.00	768702.50	0.01	-7.12	20.00	AVRG
gamma-BHC (Lindane)	866882.50	884580.00	0.01	2.04	20.00	AVRG
4,4'-DDD	454222.50	462325.00	0.01	1.78	20.00	AVRG
4,4'-DDE	617325.00	635798.75	0.01	2.99	20.00	AVRG
4,4'-DDT	503765.00	489675.00	0.01	-2.80	20.00	AVRG
Dieldrin	598393.75	603773.75	0.01	0.90	20.00	AVRG
Endosulfan I	638725.00	642885.00	0.01	0.65	20.00	AVRG
Endosulfan II	526756.25	517077.50	0.01	-1.84	20.00	AVRG
Endosulfan sulfate	479623.75	459496.25	0.01	-4.20	20.00	AVRG
Endrin	524785.00	514835.00	0.01	-1.90	20.00	AVRG
Endrin Aldehyde	425753.75	401030.00	0.01	-5.81	20.00	AVRG
Heptachlor	778205.23	850262.50	0.01	9.26	20.00	AVRG
Heptachlor Epoxide	683115.00	700685.00	0.01	2.57	20.00	AVRG
Methoxychlor	208391.00	201515.50	0.01	-3.30	20.00	AVRG
Endrin Ketone	535815.00	523330.00	0.01	-2.33	20.00	AVRG
gamma-Chlordane	690205.00	707335.00	0.01	2.48	20.00	AVRG
alpha-Chlordane	595455.00	599187.50	0.01	0.63	20.00	AVRG
Decachlorobiphenyl	497253.75	508297.50	0.01	2.22	20.00	AVRG
Tetrachloro-m-Xylene	548875.00	586925.00	0.01	6.93	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/03/10 Time: 1308

Lab File ID: 092FSEQ-CCV3 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	2391920.0	2541100.0	0.01	6.24	20.00	AVRG
alpha-BHC	3028787.5	3221550.0	0.01	6.36	20.00	AVRG
beta-BHC	1035150.0	1073000.0	0.01	3.66	20.00	AVRG
delta-BHC	2721052.5	2803300.0	0.01	3.02	20.00	AVRG
gamma-BHC (Lindane)	2817265.0	2958850.0	0.01	5.02	20.00	AVRG
4,4'-DDD	1534440.0	1578650.0	0.01	2.88	20.00	AVRG
4,4'-DDE	2012896.3	2042575.0	0.01	1.47	20.00	AVRG
4,4'-DDT	1722488.7	1750475.0	0.01	1.62	20.00	AVRG
Dieldrin	2037205.0	2113025.0	0.01	3.72	20.00	AVRG
Endosulfan I	2067970.0	2100750.0	0.01	1.58	20.00	AVRG
Endosulfan II	1759840.0	1783850.0	0.01	1.36	20.00	AVRG
Endosulfan sulfate	1574193.8	1561475.0	0.01	-0.81	20.00	AVRG
Endrin	1695797.5	1821200.0	0.01	7.39	20.00	AVRG
Endrin Aldehyde	1371845.0	1292000.0	0.01	-5.82	20.00	AVRG
Heptachlor	2589887.5	2751850.0	0.01	6.25	20.00	AVRG
Heptachlor Epoxide	2235460.0	2331050.0	0.01	4.28	20.00	AVRG
Methoxychlor	731446.75	757870.00	0.01	3.61	20.00	AVRG
Endrin Ketone	1849761.2	1826225.0	0.01	-1.27	20.00	AVRG
gamma-Chlordane	2245767.5	2305850.0	0.01	2.68	20.00	AVRG
alpha-Chlordane	1924147.5	1936800.0	0.01	0.66	20.00	AVRG
Decachlorobiphenyl	1622137.5	1575200.0	0.01	-2.89	20.00	AVRG
Tetrachloro-m-Xylene	1587697.5	1796400.0	0.01	13.14	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/03/10 Time: 1308

Lab File ID: 092FSEQ-CCV3 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	726627.50	667250.00	0.01	-8.17	20.00	AVRG
beta-BHC	347427.50	324250.00	0.01	-6.67	20.00	AVRG
alpha-BHC	916452.50	841550.00	0.01	-8.17	20.00	AVRG
delta-BHC	827595.00	742600.00	0.01	-10.27	20.00	AVRG
gamma-BHC (Lindane)	866882.50	793000.00	0.01	-8.52	20.00	AVRG
4,4'-DDD	454222.50	405175.00	0.01	-10.80	20.00	AVRG
4,4'-DDE	617325.00	551325.00	0.01	-10.69	20.00	AVRG
4,4'-DDT	503765.00	446050.00	0.01	-11.46	20.00	AVRG
Dieldrin	598393.75	541900.00	0.01	-9.44	20.00	AVRG
Endosulfan I	638725.00	579850.00	0.01	-9.22	20.00	AVRG
Endosulfan II	526756.25	474800.00	0.01	-9.86	20.00	AVRG
Endosulfan sulfate	479623.75	429650.00	0.01	-10.42	20.00	AVRG
Endrin	524785.00	489925.00	0.01	-6.64	20.00	AVRG
Endrin Aldehyde	425753.75	364200.00	0.01	-14.46	20.00	AVRG
Heptachlor	778205.23	724350.00	0.01	-6.92	20.00	AVRG
Heptachlor Epoxide	683115.00	630350.00	0.01	-7.72	20.00	AVRG
Methoxychlor	208391.00	193075.00	0.01	-7.35	20.00	AVRG
Endrin Ketone	535815.00	479875.00	0.01	-10.44	20.00	AVRG
gamma-Chlordane	690205.00	624900.00	0.01	-9.46	20.00	AVRG
alpha-Chlordane	595455.00	540550.00	0.01	-9.22	20.00	AVRG
Decachlorobiphenyl	497253.75	449125.00	0.01	-9.68	20.00	AVRG
Tetrachloro-m-Xylene	548875.00	525050.00	0.01	-4.34	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/03/10 Time: 1837

Lab File ID: 101FSEQ-CCV1 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	2391920.0	2712000.0	0.01	13.38	20.00	AVRG
alpha-BHC	3028787.5	3478450.0	0.01	14.85	20.00	AVRG
beta-BHC	1035150.0	1148850.0	0.01	10.98	20.00	AVRG
delta-BHC	2721052.5	3045150.0	0.01	11.91	20.00	AVRG
gamma-BHC (Lindane)	2817265.0	3187000.0	0.01	13.12	20.00	AVRG
4,4'-DDD	1534440.0	1661350.0	0.01	8.27	20.00	AVRG
4,4'-DDE	2012896.3	2182675.0	0.01	8.43	20.00	AVRG
4,4'-DDT	1722488.7	1843725.0	0.01	7.04	20.00	AVRG
Dieldrin	2037205.0	2226875.0	0.01	9.31	20.00	AVRG
Endosulfan I	2067970.0	2309500.0	0.01	11.68	20.00	AVRG
Endosulfan II	1759840.0	1875225.0	0.01	6.56	20.00	AVRG
Endosulfan sulfate	1574193.8	1645075.0	0.01	4.50	20.00	AVRG
Endrin	1695797.5	1882575.0	0.01	11.01	20.00	AVRG
Endrin Aldehyde	1371845.0	1490450.0	0.01	8.64	20.00	AVRG
Heptachlor	2589887.5	2945650.0	0.01	13.74	20.00	AVRG
Heptachlor Epoxide	2235460.0	2471900.0	0.01	10.58	20.00	AVRG
Methoxychlor	731446.75	770335.00	0.01	5.32	20.00	AVRG
Endrin Ketone	1849761.2	1915600.0	0.01	3.56	20.00	AVRG
gamma-Chlordane	2245767.5	2459200.0	0.01	9.50	20.00	AVRG
alpha-Chlordane	1924147.5	2131900.0	0.01	10.80	20.00	AVRG
Decachlorobiphenyl	1622137.5	1634475.0	0.01	0.76	20.00	AVRG
Tetrachloro-m-Xylene	1587697.5	1853700.0	0.01	16.75	20.00	AVRG

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: TRACEGC82 Calibration Date: 06/03/10 Time: 1837

Lab File ID: 101FSEQ-CCV1 Init. Calib. Date(s): 06/01/10 06/01/10

Init. Calib. Times: 1716 1913

GC Column: CLPEST2 ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF0.0100 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Aldrin	726627.50	715150.00	0.01	-1.58	20.00	AVRG
beta-BHC	347427.50	344300.00	0.01	-0.90	20.00	AVRG
alpha-BHC	916452.50	906700.00	0.01	-1.06	20.00	AVRG
delta-BHC	827595.00	789200.00	0.01	-4.64	20.00	AVRG
gamma-BHC (Lindane)	866882.50	849350.00	0.01	-2.02	20.00	AVRG
4,4'-DDD	454222.50	431400.00	0.01	-5.02	20.00	AVRG
4,4'-DDE	617325.00	583525.00	0.01	-5.48	20.00	AVRG
4,4'-DDT	503765.00	475000.00	0.01	-5.71	20.00	AVRG
Dieldrin	598393.75	573350.00	0.01	-4.18	20.00	AVRG
Endosulfan I	638725.00	616750.00	0.01	-3.44	20.00	AVRG
Endosulfan II	526756.25	499650.00	0.01	-5.14	20.00	AVRG
Endosulfan sulfate	479623.75	450550.00	0.01	-6.06	20.00	AVRG
Endrin	524785.00	507950.00	0.01	-3.21	20.00	AVRG
Endrin Aldehyde	425753.75	403900.00	0.01	-5.13	20.00	AVRG
Heptachlor	778205.23	773100.00	0.01	-0.66	20.00	AVRG
Heptachlor Epoxide	683115.00	667100.00	0.01	-2.34	20.00	AVRG
Methoxychlor	208391.00	197270.00	0.01	-5.34	20.00	AVRG
Endrin Ketone	535815.00	497875.00	0.01	-7.08	20.00	AVRG
gamma-Chlordane	690205.00	664850.00	0.01	-3.67	20.00	AVRG
alpha-Chlordane	595455.00	574050.00	0.01	-3.59	20.00	AVRG
Decachlorobiphenyl	497253.75	470575.00	0.01	-5.36	20.00	AVRG
Tetrachloro-m-Xylene	548875.00	570200.00	0.01	3.88	20.00	AVRG

FORM VII PEST

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMFA Date Analyzed :06/01/10

Lab Sample ID (PEM): 0F01010-PEM1 Time Analyzed :1647

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	15.40	15.34	15.48	387
4,4'-DDT	17.34	17.27	17.41	48767
Endrin	16.57	16.51	16.65	36537
Endrin Aldehyde	18.00	17.93	18.07	497
Endrin Ketone	19.57	19.50	19.64	610

4,4'-DDT % breakdown (1): 0.787 Endrin % breakdown (1): 2.94

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): _____ Date Analyzed :_____

Lab Sample ID (PIBLK): _____ Time Analyzed :_____

EPA Sample No.(PEM): PEMFA Date Analyzed :06/01/10

Lab Sample ID (PEM): 0F01010-PEM1 Time Analyzed :1647

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.95	16.87	17.02	71
4,4'-DDE	15.69	15.61	15.75	149
4,4'-DDT	17.62	17.55	17.69	14640
Endrin	16.67	16.60	16.74	11936
Endrin Aldehyde	17.88	17.80	17.95	206
Endrin Ketone	19.62	19.55	19.69	176

4,4'-DDT % breakdown (1): 1.48 Endrin % breakdown (1): 3.10

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFC Date Analyzed :06/01/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :2138

EPA Sample No.(PEM): PEMFD Date Analyzed :06/01/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :2236

PEM COMPOUND	RT	RT WINDOW FROM	TO	AREA
4,4'-DDD				
4,4'-DDE	15.40	15.34	15.48	413
4,4'-DDT	17.34	17.27	17.41	49421
Endrin	16.58	16.51	16.65	37007
Endrin Aldehyde	18.00	17.93	18.07	804
Endrin Ketone	19.56	19.50	19.64	1241

4,4'-DDT % breakdown (1): 0.829 Endrin % breakdown (1): 5.24

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFD Date Analyzed :06/01/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :2138

EPA Sample No.(PEM): PEMFD Date Analyzed :06/01/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :2236

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.95	16.87	17.02	237
4,4'-DDE	15.69	15.61	15.75	145
4,4'-DDT	17.62	17.55	17.69	14985
Endrin	16.67	16.60	16.74	12061
Endrin Aldehyde	17.87	17.80	17.95	366
Endrin Ketone	19.62	19.55	19.69	325

4,4'-DDT % breakdown (1): 2.48 Endrin % breakdown (1): 5.42

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFE Date Analyzed :06/02/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :0357

EPA Sample No.(PEM): PEMFF Date Analyzed :06/02/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :0455

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.74	16.66	16.80	400
4,4'-DDE	15.40	15.34	15.48	548
4,4'-DDT	17.34	17.27	17.41	50788
Endrin	16.58	16.51	16.65	38009
Endrin Aldehyde	18.00	17.93	18.07	1163
Endrin Ketone	19.56	19.50	19.64	1669

4,4'-DDT % breakdown (1): 1.83 Endrin % breakdown (1): 6.93

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFF Date Analyzed :06/02/10

Lab Sample ID (PIBLK): SEQ-CCB2 Time Analyzed :0357

EPA Sample No.(PEM): PEMFF Date Analyzed :06/02/10

Lab Sample ID (PEM): SEQ-PEM2 Time Analyzed :0455

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.94	16.87	17.02	162
4,4'-DDE	15.68	15.61	15.75	152
4,4'-DDT	17.62	17.55	17.69	15044
Endrin	16.67	16.60	16.74	11943
Endrin Aldehyde	17.87	17.80	17.95	351
Endrin Ketone	19.62	19.55	19.69	475

4,4'-DDT % breakdown (1): 2.04 Endrin % breakdown (1): 6.47

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFG Date Analyzed :06/02/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :1015

EPA Sample No.(PEM): PEMFH Date Analyzed :06/02/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :1113

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.75	16.66	16.80	1095
4,4'-DDE	15.41	15.34	15.48	640
4,4'-DDT	17.35	17.27	17.41	49829
Endrin	16.58	16.51	16.65	39767
Endrin Aldehyde	18.00	17.93	18.07	1005
Endrin Ketone	19.57	19.50	19.64	1556

4,4'-DDT % breakdown (1): 3.36 Endrin % breakdown (1): 6.05

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFH Date Analyzed :06/02/10

Lab Sample ID (PIBLK): SEQ-CCB3 Time Analyzed :1015

EPA Sample No.(PEM): PEMFH Date Analyzed :06/02/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :1113

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.96	16.87	17.02	384
4,4'-DDE	15.69	15.61	15.75	191
4,4'-DDT	17.62	17.55	17.69	14656
Endrin	16.67	16.60	16.74	12317
Endrin Aldehyde	17.88	17.80	17.95	282
Endrin Ketone	19.62	19.55	19.69	460

4,4'-DDT % breakdown (1): 3.78 Endrin % breakdown (1): 5.68

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFI Date Analyzed :06/02/10

Lab Sample ID (PIBLK): SEQ-CCB4 Time Analyzed :1634

EPA Sample No.(PEM): PEMFJ Date Analyzed :06/02/10

Lab Sample ID (PEM): SEQ-PEM4 Time Analyzed :1732

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.76	16.66	16.80	1421
4,4'-DDE	15.40	15.34	15.48	539
4,4'-DDT	17.35	17.27	17.41	49506
Endrin	16.57	16.51	16.65	38789
Endrin Aldehyde	18.00	17.93	18.07	1214
Endrin Ketone	19.57	19.50	19.64	2217

4,4'-DDT % breakdown (1): 3.81 Endrin % breakdown (1): 8.13

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFJ Date Analyzed :06/02/10

Lab Sample ID (PIBLK): SEQ-CCB4 Time Analyzed :1634

EPA Sample No.(PEM): PEMFJ Date Analyzed :06/02/10

Lab Sample ID (PEM): SEQ-PEM4 Time Analyzed :1732

PEM COMPOUND	RT	RT WINDOW FROM	TO	AREA
4,4'-DDD	16.96	16.87	17.02	456
4,4'-DDE	15.69	15.61	15.75	161
4,4'-DDT	17.62	17.55	17.69	14425
Endrin	16.67	16.60	16.74	12050
Endrin Aldehyde	17.88	17.80	17.95	368
Endrin Ketone	19.63	19.55	19.69	572

4,4'-DDT % breakdown (1): 4.10 Endrin % breakdown (1): 7.24

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFK Date Analyzed :06/02/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :2252

EPA Sample No.(PEM): PEMFL Date Analyzed :06/02/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :2351

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.77	16.66	16.80	1837
4,4'-DDE				
4,4'-DDT	17.35	17.27	17.41	47445
Endrin	16.57	16.51	16.65	39250
Endrin Aldehyde	18.00	17.93	18.07	1226
Endrin Ketone	19.57	19.50	19.64	2133

4,4'-DDT % breakdown (1): 3.73 Endrin % breakdown (1): 7.88

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFL Date Analyzed :06/02/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :2252

EPA Sample No.(PEM): PEMFL Date Analyzed :06/02/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :2351

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.97	16.87	17.02	595
4,4'-DDE	15.69	15.61	15.75	138
4,4'-DDT	17.63	17.55	17.69	13650
Endrin	16.67	16.60	16.74	12087
Endrin Aldehyde	17.87	17.80	17.95	373
Endrin Ketone	19.62	19.55	19.69	568

4,4'-DDT % breakdown (1): 5.10 Endrin % breakdown (1): 7.22

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFO Date Analyzed :06/03/10

Lab Sample ID (PIBLK): SEQ-IBL3 Time Analyzed :1359

EPA Sample No.(PEM): PEMFP Date Analyzed :06/03/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :1426

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	15.29	15.22	15.37	496
4,4'-DDT	17.23	17.16	17.30	54909
Endrin	16.46	16.39	16.53	43004
Endrin Aldehyde	17.89	17.81	17.95	482
Endrin Ketone	19.45	19.37	19.51	548

4,4'-DDT % breakdown (1): 0.895 Endrin % breakdown (1): 2.34

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFP Date Analyzed :06/03/10

Lab Sample ID (PIBLK): SEQ-IBL3 Time Analyzed :1359

EPA Sample No.(PEM): PEMFP Date Analyzed :06/03/10

Lab Sample ID (PEM): SEQ-PEM3 Time Analyzed :1426

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD				
4,4'-DDE	15.58	15.51	15.64	155
4,4'-DDT	17.51	17.44	17.58	14363
Endrin	16.56	16.49	16.63	11924
Endrin Aldehyde	17.76	17.69	17.83	110
Endrin Ketone	19.51	19.43	19.57	89

4,4'-DDT % breakdown (1): 1.07 Endrin % breakdown (1): 1.64

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFQ Date Analyzed :06/03/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :1808

EPA Sample No.(PEM): PEMFR Date Analyzed :06/03/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :1907

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.62	16.55	16.69	521
4,4'-DDE	15.30	15.22	15.37	525
4,4'-DDT	17.24	17.16	17.30	54755
Endrin	16.46	16.39	16.53	42468
Endrin Aldehyde	17.89	17.81	17.95	1208
Endrin Ketone	19.44	19.37	19.51	1181

4,4'-DDT % breakdown (1): 1.87 Endrin % breakdown (1): 5.32

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

FORM VII PEST-1

7F

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

EPA Sample No.(PIBLK): PIBLKFR Date Analyzed :06/03/10

Lab Sample ID (PIBLK): SEQ-CCB1 Time Analyzed :1808

EPA Sample No.(PEM): PEMFR Date Analyzed :06/03/10

Lab Sample ID (PEM): SEQ-PEM1 Time Analyzed :1907

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	AREA
4,4'-DDD	16.84	16.76	16.90	126
4,4'-DDE	15.58	15.51	15.64	136
4,4'-DDT	17.52	17.44	17.58	14388
Endrin	16.57	16.49	16.63	11786
Endrin Aldehyde	17.77	17.69	17.83	332
Endrin Ketone	19.51	19.43	19.57	356

4,4'-DDT % breakdown (1): 1.79 Endrin % breakdown (1): 5.52

QC LIMITS:

4,4'-DDT breakdown must be less than or equal to 15.0%

Endrin breakdown must be less than or equal to 15.0%

c. Analytical Sequence (Form VIII)

For all GC columns, all instruments, in chronological order by GC column and instrument

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 21.86 TCX: 8.80

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMFA	0F01010-PEM1	06/01/10	1647	21.85	8.78
02	INDC1FA	0F01010-CAL1	06/01/10	1716	21.85	8.80
03	INDC2FA	0F01010-CAL2	06/01/10	1745	21.86	8.78
04	INDC3FA	0F01010-CAL3	06/01/10	1814	21.86	8.78
05	INDC4FA	0F01010-CAL4	06/01/10	1843	21.84	8.80
06	INDC5FA	0F01010-CAL5	06/01/10	1913	21.86	8.80
07	TOXAPH3FA	0F01010-ARC1	06/01/10	1942	21.85	8.80
08	CHLORO3FA	0F01010-ARC2	06/01/10	2011	21.85	8.78
09	PIBLKFC	SEQ-CCB1	06/01/10	2138	21.86	8.80
10	INDC3FD	SEQ-CCV1	06/01/10	2207	21.86	8.78
11	PEMFD	SEQ-PEM1	06/01/10	2236	21.86	8.80
12	PBLKBO	0051919-BLK1	06/01/10	2305	21.86	8.80
13	PBOLCS	0051919-BS1	06/01/10	2334	21.86	8.80
14	PBOLCSD	0051919-BSD1	06/02/10	0004	21.86	8.80
15	SB85-1.5-2.5	0051919-MS1	06/02/10	0033	21.86	8.80
16	SB85-1.5-2.5	0051919-MSD1	06/02/10	0131	21.86	8.80
17	SB85-1.5-2.5	1005132-01	06/02/10	0229	21.86	8.80
18	SB78-3.5-4.5	1005132-02	06/02/10	0259	21.86	8.80
19	PIBLKFE	SEQ-CCB2	06/02/10	0357	21.86	8.80
20	INDC3FF	SEQ-CCV2	06/02/10	0426	21.86	8.80
21	PEMFF	SEQ-PEM2	06/02/10	0455	21.86	8.80
22	SS77-0-1	1005132-03	06/02/10	0524	21.86	8.80
23	SB77-3.5-4.5	1005132-04	06/02/10	0553	21.86	8.80
24	SS79-0-1	1005132-05	06/02/10	0622	21.86	8.80
25	SB79-11-12	1005132-06	06/02/10	0651	21.86	8.80
26	SS83-0-1	1005132-07	06/02/10	0720	21.86	8.80
27	SB83-6.5-7.5	1005132-08	06/02/10	0750	21.86	8.80
28	SS62-0-1	1005132-09	06/02/10	0819	21.86	8.80
29	SS74-0-1	1005132-10	06/02/10	0848	21.86	8.80
30	SS86-0-1	1005132-11	06/02/10	0917	21.86	8.80
31	PIBLKFG	SEQ-CCB3	06/02/10	1015	21.86	8.80
32	INDC3FH	SEQ-CCV3	06/02/10	1044	21.86	8.80

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:21.86 TCX:8.80
SURROGATE RT FROM CONTINUING CALIBRATION DCB:21.71 TCX:8.70

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMFH	SEQ-PEM3	06/02/10	1113	21.86	8.80
02	SB86-3-4	1005132-12	06/02/10	1143	21.86	8.80
03	SS84-0-1	1005132-13	06/02/10	1212	21.86	8.80
04	SB84-6-7	1005132-14	06/02/10	1241	21.86	8.80
05	PIBLKFI	SEQ-CCB4	06/02/10	1634	21.87	8.80
06	INDC3FJ	SEQ-CCV4	06/02/10	1703	21.86	8.80
07	PEMFJ	SEQ-PEM4	06/02/10	1732	21.86	8.80
08	PBLKCE	0052405-BLK1	06/02/10	1801	21.86	8.80
09	PCELCS	0052405-BS1	06/02/10	1830	21.86	8.80
10	PCELCSD	0052405-BSD1	06/02/10	1900	21.86	8.80
11	SS81-0-1	1005132-15	06/02/10	1929	21.86	8.80
12	SB81-5-6	1005132-16	06/02/10	1958	21.86	8.80
13	SS71-0-1	1005132-17	06/02/10	2027	21.86	8.80
14	SS71D-0-1	1005132-18	06/02/10	2056	21.86	8.80
15	SB71-4-5	1005132-19	06/02/10	2125	21.86	8.80
16	SB71D-4-5	1005132-20	06/02/10	2154	21.86	8.80
17	PIBLKFK	SEQ-CCB1	06/02/10	2252	21.86	8.80
18	INDC3FL	SEQ-CCV1	06/02/10	2321	21.86	8.80
19	PEMFL	SEQ-PEM1	06/02/10	2351	21.87	8.80
20	INDC3FP	SEQ-CCV3	06/03/10	1308	21.71	8.70
21	PIBLKFO	SEQ-IBL3	06/03/10	1359	21.71	8.69
22	PEMFP	SEQ-PEM3	06/03/10	1426	21.72	8.70
23	SS77-0-1DL	1005132-03RE	06/03/10	1545	21.70	8.69
24	SS62-0-1DL	1005132-09RE	06/03/10	1612	21.72	8.70
25	SS86-0-1DL	1005132-11RE	06/03/10	1641	21.71	8.70
26	SS84-0-1DL	1005132-13RE	06/03/10	1710	21.72	8.71
27	PIBLKFQ	SEQ-CCB1	06/03/10	1808	21.72	8.71
28	INDC3FR	SEQ-CCV1	06/03/10	1837	21.72	8.71
29	PEMFR	SEQ-PEM1	06/03/10	1907	21.72	8.71
30						
31						
32						

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 22.54 TCX: 8.66

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMFA	0F01010-PEM1	06/01/10	1647	22.54	8.64
02	INDC1FA	0F01010-CAL1	06/01/10	1716	22.54	8.66
03	INDC2FA	0F01010-CAL2	06/01/10	1745	22.54	8.64
04	INDC3FA	0F01010-CAL3	06/01/10	1814	22.54	8.64
05	INDC4FA	0F01010-CAL4	06/01/10	1843	22.54	8.66
06	INDC5FA	0F01010-CAL5	06/01/10	1913	22.54	8.66
07	TOXAPH3FA	0F01010-ARC1	06/01/10	1942	22.54	8.66
08	CHLORO3FA	0F01010-ARC2	06/01/10	2011	22.54	8.64
09	PIBLKFD	SEQ-CCB1	06/01/10	2138	22.54	8.66
10	INDC3FD	SEQ-CCV1	06/01/10	2207	22.54	8.64
11	PEMFD	SEQ-PEM1	06/01/10	2236	22.54	8.66
12	PBLKBO	0051919-BLK1	06/01/10	2305	22.54	8.66
13	PBOLCS	0051919-BS1	06/01/10	2334	22.54	8.66
14	PBOLCSD	0051919-BSD1	06/02/10	0004	22.54	8.66
15	SB85-1.5-2.5	0051919-MS1	06/02/10	0033	22.54	8.66
16	SB85-1.5-2.5	0051919-MSD1	06/02/10	0131	22.54	8.66
17	SB85-1.5-2.5	1005132-01	06/02/10	0229	22.54	8.66
18	SB78-3.5-4.5	1005132-02	06/02/10	0259	22.54	8.66
19	PIBLKFF	SEQ-CCB2	06/02/10	0357	22.54	8.66
20	INDC3FF	SEQ-CCV2	06/02/10	0426	22.54	8.66
21	PEMFF	SEQ-PEM2	06/02/10	0455	22.54	8.66
22	SS77-0-1	1005132-03	06/02/10	0524	22.54	8.66
23	SB77-3.5-4.5	1005132-04	06/02/10	0553	22.54	8.66
24	SS79-0-1	1005132-05	06/02/10	0622	22.54	8.66
25	SB79-11-12	1005132-06	06/02/10	0651	22.54	8.66
26	SS83-0-1	1005132-07	06/02/10	0720	22.54	8.67
27	SB83-6.5-7.5	1005132-08	06/02/10	0750	22.54	8.66
28	SS62-0-1	1005132-09	06/02/10	0819	22.54	8.66
29	SS74-0-1	1005132-10	06/02/10	0848	22.54	8.66
30	SS86-0-1	1005132-11	06/02/10	0917	22.54	8.66
31	PIBLKFH	SEQ-CCB3	06/02/10	1015	22.55	8.66
32	INDC3FH	SEQ-CCV3	06/02/10	1044	22.54	8.66

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

GC Column: CLPEST2 ID: 0.32 (mm) Init. Calib. Date(s): 06/01/10 06/01/10

Instrument ID: TRACEGC82

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB:22.54 TCX:8.66
SURROGATE RT FROM CONTINUING CALIBRATION DCB:22.38 TCX:8.56

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	PEMFH	SEQ-PEM3	06/02/10	1113	22.54	8.66
02	SB86-3-4	1005132-12	06/02/10	1143	22.55	8.66
03	SS84-0-1	1005132-13	06/02/10	1212	22.54	8.66
04	SB84-6-7	1005132-14	06/02/10	1241	22.55	8.66
05	PIBLKFJ	SEQ-CCB4	06/02/10	1634	22.55	8.66
06	INDC3FJ	SEQ-CCV4	06/02/10	1703	22.54	8.66
07	PEMFJ	SEQ-PEM4	06/02/10	1732	22.55	8.66
08	PBLKCE	0052405-BLK1	06/02/10	1801	22.54	8.66
09	PCELCS	0052405-BS1	06/02/10	1830	22.54	8.66
10	PCELCSD	0052405-BSD1	06/02/10	1900	22.54	8.66
11	SS81-0-1	1005132-15	06/02/10	1929	22.54	8.67
12	SB81-5-6	1005132-16	06/02/10	1958	22.54	8.66
13	SS71-0-1	1005132-17	06/02/10	2027	22.54	8.66
14	SS71D-0-1	1005132-18	06/02/10	2056	22.54	8.66
15	SB71-4-5	1005132-19	06/02/10	2125	22.54	8.66
16	SB71D-4-5	1005132-20	06/02/10	2154	22.54	8.66
17	PIBLKFL	SEQ-CCB1	06/02/10	2252	22.54	8.66
18	INDC3FL	SEQ-CCV1	06/02/10	2321	22.54	8.66
19	PEMFL	SEQ-PEM1	06/02/10	2351	22.54	8.66
20	INDC3FP	SEQ-CCV3	06/03/10	1308	22.38	8.56
21	PIBLKFP	SEQ-IBL3	06/03/10	1359	22.38	8.56
22	PEMFP	SEQ-PEM3	06/03/10	1426	22.39	8.56
23	SS77-0-1DL	1005132-03RE	06/03/10	1545	22.37	8.56
24	SS62-0-1DL	1005132-09RE	06/03/10	1612	22.39	8.57
25	SS86-0-1DL	1005132-11RE	06/03/10	1641	22.39	8.56
26	SS84-0-1DL	1005132-13RE	06/03/10	1710	22.39	8.57
27	PIBLKFR	SEQ-CCB1	06/03/10	1808	22.39	8.57
28	INDC3FR	SEQ-CCV1	06/03/10	1837	22.39	8.57
29	PEMFR	SEQ-PEM1	06/03/10	1907	22.39	8.57
30						
31						
32						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

d. Identification Summary for Single Component Analytes (Form X)

For all samples with positively identified single component analytes, in order by increasing Client Sample ID number.

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBLKCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0052405-BLK1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
gamma-Chlordane	1	14.89	14.84	14.98	0.20	
	2	14.98	14.88	15.02	1.2	142.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

EPA SAMPLE NO.

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

PBOLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-BS1 Date(s) Analyzed: 06/01/10 06/01/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.18	13.11	13.25	3.8	
	2	13.17	13.10	13.24	4.2	10.0
beta-BHC	1	11.48	11.41	11.55	4.1	
	2	11.57	11.50	11.64	5.2	23.6
alpha-BHC	1	10.38	10.32	10.46	4.6	
	2	10.39	10.32	10.46	4.5	2.2
delta-BHC	1	11.92	11.85	11.99	5.5	
	2	12.29	12.22	12.36	4.8	13.6
gamma-BHC (Lindane)	1	11.23	11.16	11.30	4.2	
	2	11.32	11.25	11.39	4.2	0.0
4,4'-DDD	1	16.73	16.66	16.80	12	
	2	16.94	16.87	17.02	12	0.0
4,4'-DDE	1	15.41	15.34	15.48	12	
	2	15.68	15.61	15.75	11	8.7
4,4'-DDT	1	17.34	17.27	17.41	17	
	2	17.61	17.55	17.69	15	12.5

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBOLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-BS1 Date(s) Analyzed: 06/01/10 06/01/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	16.06	15.99	16.13	12	
	2	16.00	15.94	16.08	12	0.0
Endosulfan I	1	15.52	15.45	15.59	4.3	
	2	15.39	15.33	15.47	4.5	4.5
Endosulfan II	1	17.07	17.01	17.15	11	
	2	17.14	17.07	17.21	11	0.0
Endosulfan sulfate	1	18.95	18.89	19.02	11	
	2	18.47	18.40	18.54	10	9.5
Endrin	1	16.58	16.51	16.65	11	
	2	16.67	16.60	16.74	11	0.0
Endrin Aldehyde	1	18.00	17.93	18.07	6.7	
	2	17.87	17.80	17.95	7.0	4.4
Heptachlor	1	12.45	12.38	12.52	5.2	
	2	12.40	12.34	12.47	4.9	5.9
Heptachlor Epoxide	1	14.62	14.56	14.70	5.1	
	2	14.52	14.45	14.59	5.0	2.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBOLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-BS1 Date(s) Analyzed: 06/01/10 06/01/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	18.40	18.33	18.47	12	
	2	19.10	19.03	19.17	12	0.0
Endrin Ketone	1	19.57	19.50	19.64	12	
	2	19.62	19.55	19.69	12	0.0
gamma-Chlordane	1	14.91	14.84	14.98	4.5	
	2	14.95	14.88	15.02	4.9	8.5
alpha-Chlordane	1	15.21	15.15	15.29	5.0	
	2	15.28	15.21	15.35	5.4	7.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBOLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-BSD1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.18	13.11	13.25	3.6	
	2	13.17	13.10	13.24	4.1	13.0
beta-BHC	1	11.48	11.41	11.55	4.1	
	2	11.57	11.50	11.64	5.2	23.6
alpha-BHC	1	10.38	10.32	10.46	4.4	
	2	10.39	10.32	10.46	4.4	0.0
delta-BHC	1	11.92	11.85	11.99	4.9	
	2	12.29	12.22	12.36	4.6	6.3
gamma-BHC (Lindane)	1	11.23	11.16	11.30	4.1	
	2	11.32	11.25	11.39	3.9	5.0
4,4'-DDD	1	16.73	16.66	16.80	11	
	2	16.94	16.87	17.02	11	0.0
4,4'-DDE	1	15.41	15.34	15.48	11	
	2	15.68	15.61	15.75	11	0.0
4,4'-DDT	1	17.34	17.27	17.41	10	
	2	17.62	17.55	17.69	10	0.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBOLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-BSD1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	16.06	15.99	16.13	12	
	2	16.00	15.94	16.08	11	8.7
Endosulfan I	1	15.52	15.45	15.59	4.1	
	2	15.39	15.33	15.47	4.5	9.3
Endosulfan II	1	17.07	17.01	17.15	11	
	2	17.14	17.07	17.21	11	0.0
Endosulfan sulfate	1	18.95	18.89	19.02	10	
	2	18.47	18.40	18.54	10	0.0
Endrin	1	16.58	16.51	16.65	11	
	2	16.67	16.60	16.74	11	0.0
Endrin Aldehyde	1	18.00	17.93	18.07	6.0	
	2	17.87	17.80	17.95	6.5	8.0
Heptachlor	1	12.45	12.38	12.52	5.1	
	2	12.40	12.34	12.47	4.7	8.2
Heptachlor Epoxide	1	14.63	14.56	14.70	4.9	
	2	14.52	14.45	14.59	4.6	6.3

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PBOLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-BSD1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	18.39	18.33	18.47	12	
	2	19.09	19.03	19.17	12	0.0
Endrin Ketone	1	19.57	19.50	19.64	11	
	2	19.62	19.55	19.69	11	0.0
gamma-Chlordane	1	14.91	14.84	14.98	4.4	
	2	14.95	14.88	15.02	4.3	2.3
alpha-Chlordane	1	15.21	15.15	15.29	4.8	
	2	15.28	15.21	15.35	5.5	13.6
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

EPA SAMPLE NO.

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

PCELCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0052405-BS1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.18	13.11	13.25	4.0	
	2	13.17	13.10	13.24	3.8	5.1
beta-BHC	1	11.48	11.41	11.55	4.0	
	2	11.57	11.50	11.64	4.2	4.9
alpha-BHC	1	10.38	10.32	10.46	4.7	
	2	10.39	10.32	10.46	4.4	6.6
delta-BHC	1	11.93	11.85	11.99	4.7	
	2	12.29	12.22	12.36	4.5	4.3
gamma-BHC (Lindane)	1	11.23	11.16	11.30	4.1	
	2	11.32	11.25	11.39	3.9	5.0
4,4'-DDD	1	16.73	16.66	16.80	12	
	2	16.95	16.87	17.02	11	8.7
4,4'-DDE	1	15.41	15.34	15.48	12	
	2	15.68	15.61	15.75	11	8.7
4,4'-DDT	1	17.35	17.27	17.41	11	
	2	17.62	17.55	17.69	10	9.5

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCELCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0052405-BS1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	16.06	15.99	16.13	12	
	2	16.00	15.94	16.08	11	8.7
Endosulfan I	1	15.52	15.45	15.59	4.2	
	2	15.39	15.33	15.47	4.0	4.9
Endosulfan II	1	17.07	17.01	17.15	11	
	2	17.14	17.07	17.21	11	0.0
Endosulfan sulfate	1	18.95	18.89	19.02	10	
	2	18.47	18.40	18.54	9.9	1.0
Endrin	1	16.58	16.51	16.65	11	
	2	16.67	16.60	16.74	10	9.5
Endrin Aldehyde	1	18.00	17.93	18.07	6.3	
	2	17.87	17.80	17.95	6.2	1.6
Heptachlor	1	12.45	12.38	12.52	5.3	
	2	12.40	12.34	12.47	4.8	9.9
Heptachlor Epoxide	1	14.62	14.56	14.70	5.0	
	2	14.52	14.45	14.59	4.8	4.1

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCELCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0052405-BS1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	18.40	18.33	18.47	12	
	2	19.10	19.03	19.17	12	0.0
Endrin Ketone	1	19.57	19.50	19.64	12	
	2	19.62	19.55	19.69	11	8.7
gamma-Chlordane	1	14.91	14.84	14.98	4.4	
	2	14.95	14.88	15.02	5.4	20.4
alpha-Chlordane	1	15.21	15.15	15.29	5.4	
	2	15.28	15.21	15.35	4.7	13.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCELCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0052405-BSD1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.18	13.11	13.25	3.9	
	2	13.17	13.10	13.24	3.7	5.3
beta-BHC	1	11.48	11.41	11.55	3.9	
	2	11.57	11.50	11.64	4.4	12.0
alpha-BHC	1	10.38	10.32	10.46	4.5	
	2	10.39	10.32	10.46	4.4	2.2
delta-BHC	1	11.93	11.85	11.99	4.5	
	2	12.29	12.22	12.36	4.3	4.5
gamma-BHC (Lindane)	1	11.23	11.16	11.30	4.1	
	2	11.32	11.25	11.39	3.9	5.0
4,4'-DDD	1	16.73	16.66	16.80	11	
	2	16.95	16.87	17.02	11	0.0
4,4'-DDE	1	15.41	15.34	15.48	11	
	2	15.68	15.61	15.75	10	9.5
4,4'-DDT	1	17.35	17.27	17.41	10	
	2	17.62	17.55	17.69	9.7	3.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCELCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0052405-BSD1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	16.06	15.99	16.13	11	
	2	16.01	15.94	16.08	11	0.0
Endosulfan I	1	15.52	15.45	15.59	4.3	
	2	15.39	15.33	15.47	4.0	7.2
Endosulfan II	1	17.07	17.01	17.15	11	
	2	17.14	17.07	17.21	10	9.5
Endosulfan sulfate	1	18.95	18.89	19.02	9.8	
	2	18.47	18.40	18.54	9.5	3.1
Endrin	1	16.58	16.51	16.65	11	
	2	16.67	16.60	16.74	10	9.5
Endrin Aldehyde	1	18.00	17.93	18.07	6.7	
	2	17.87	17.80	17.95	6.9	2.9
Heptachlor	1	12.45	12.38	12.52	5.0	
	2	12.40	12.34	12.47	4.7	6.2
Heptachlor Epoxide	1	14.62	14.56	14.70	4.8	
	2	14.52	14.45	14.59	4.6	4.2

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

PCELCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0052405-BSD1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	18.40	18.33	18.47	12	
	2	19.10	19.03	19.17	12	0.0
Endrin Ketone	1	19.57	19.50	19.64	11	
	2	19.62	19.55	19.69	11	0.0
gamma-Chlordane	1	14.91	14.84	14.98	4.3	
	2	14.95	14.88	15.02	5.0	15.0
alpha-Chlordane	1	15.21	15.15	15.29	5.1	
	2	15.28	15.21	15.35	4.6	10.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB71-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-19 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Heptachlor	1	12.47	12.38	12.52	0.41	
	2	12.39	12.34	12.47	0.25	48.5
gamma-Chlordane	1	14.88	14.84	14.98	0.30	
	2	14.98	14.88	15.02	1.7	140.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB71D-4-5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-20 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDT	1	17.35	17.27	17.41	0.67	
	2	17.61	17.55	17.69	0.74	9.9
gamma-Chlordane	1	14.89	14.84	14.98	0.55	
	2	14.97	14.88	15.02	3.8	149.4
alpha-Chlordane	1	15.15	15.15	15.29	1.7	
	2	15.26	15.21	15.35	0.26	146.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB77-3.5-4.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-04 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
delta-BHC	1	11.94	11.85	11.99	0.63	
	2	12.32	12.22	12.36	0.26	83.1
Endosulfan I	1	15.51	15.45	15.59	0.41	
	2	15.39	15.33	15.47	0.32	24.6
alpha-Chlordane	1	15.22	15.15	15.29	0.83	
	2	15.32	15.21	15.35	0.20	122.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB84-6-7

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-14 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	15.41	15.34	15.48	0.49	
	2	15.69	15.61	15.75	0.47	4.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB85-1.5-2.5

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-01 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	11.51	11.41	11.55	0.56	
	2	11.58	11.50	11.64	2.2	118.8
delta-BHC	1	11.94	11.85	11.99	1.8	
	2	12.33	12.22	12.36	0.53	109.0
Dieldrin	1	16.05	15.99	16.13	1.1	
	2	15.96	15.94	16.08	0.48	78.5
Endosulfan I	1	15.51	15.45	15.59	1.1	
	2	15.39	15.33	15.47	0.51	73.3
Endosulfan II	1	17.05	17.01	17.15	0.47	
	2	17.11	17.07	17.21	0.51	8.2
Endrin	1	16.53	16.51	16.65	3.0	
	2	16.62	16.60	16.74	0.62	131.5
Endrin Aldehyde	1	18.04	17.93	18.07	4.5	
	2	17.89	17.80	17.95	0.47	162.2
Heptachlor	1	12.41	12.38	12.52	0.43	
	2	12.39	12.34	12.47	0.39	9.8

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB85-1.5-2.5MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-MS1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.18	13.11	13.25	5.1	
	2	13.17	13.10	13.24	5.8	12.8
beta-BHC	1	11.48	11.41	11.55	5.7	
	2	11.57	11.50	11.64	7.6	28.6
alpha-BHC	1	10.39	10.32	10.46	5.8	
	2	10.39	10.32	10.46	5.6	3.5
delta-BHC	1	11.93	11.85	11.99	6.9	
	2	12.29	12.22	12.36	6.1	12.3
gamma-BHC (Lindane)	1	11.23	11.16	11.30	5.5	
	2	11.32	11.25	11.39	6.3	13.6
4,4'-DDD	1	16.73	16.66	16.80	15	
	2	16.95	16.87	17.02	15	0.0
4,4'-DDE	1	15.41	15.34	15.48	15	
	2	15.69	15.61	15.75	14	6.9
4,4'-DDT	1	17.35	17.27	17.41	14	
	2	17.62	17.55	17.69	14	0.0

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB85-1.5-2.5MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-MS1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	16.07	15.99	16.13	16	
	2	16.01	15.94	16.08	15	6.4
Endosulfan I	1	15.52	15.45	15.59	5.6	
	2	15.40	15.33	15.47	5.8	3.5
Endosulfan II	1	17.08	17.01	17.15	15	
	2	17.14	17.07	17.21	14	6.9
Endosulfan sulfate	1	18.96	18.89	19.02	14	
	2	18.47	18.40	18.54	14	0.0
Endrin	1	16.58	16.51	16.65	15	
	2	16.68	16.60	16.74	14	6.9
Endrin Aldehyde	1	18.00	17.93	18.07	8.4	
	2	17.87	17.80	17.95	9.1	8.0
Heptachlor	1	12.45	12.38	12.52	7.3	
	2	12.41	12.34	12.47	6.2	16.3
Heptachlor Epoxide	1	14.63	14.56	14.70	6.6	
	2	14.52	14.45	14.59	5.7	14.6

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB85-1.5-2.5MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-MS1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	18.40	18.33	18.47	16	
	2	19.10	19.03	19.17	16	0.0
Endrin Ketone	1	19.57	19.50	19.64	16	
	2	19.62	19.55	19.69	15	6.4
gamma-Chlordane	1	14.91	14.84	14.98	5.7	
	2	14.95	14.88	15.02	5.8	1.7
alpha-Chlordane	1	15.22	15.15	15.29	6.5	
	2	15.28	15.21	15.35	7.2	10.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SB85-1.5-2.5MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-MSD1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.18	13.11	13.25	4.9	
	2	13.18	13.10	13.24	5.7	15.1
beta-BHC	1	11.48	11.41	11.55	5.3	
	2	11.57	11.50	11.64	5.4	1.9
alpha-BHC	1	10.39	10.32	10.46	5.3	
	2	10.39	10.32	10.46	5.2	1.9
delta-BHC	1	11.93	11.85	11.99	6.4	
	2	12.29	12.22	12.36	5.7	11.6
gamma-BHC (Lindane)	1	11.23	11.16	11.30	5.1	
	2	11.32	11.25	11.39	5.0	2.0
4,4'-DDD	1	16.73	16.66	16.80	14	
	2	16.95	16.87	17.02	14	0.0
4,4'-DDE	1	15.41	15.34	15.48	14	
	2	15.69	15.61	15.75	13	7.4
4,4'-DDT	1	17.35	17.27	17.41	13	
	2	17.62	17.55	17.69	12	8.0

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB85-1.5-2.5MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-MSD1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Dieldrin	1	16.07	15.99	16.13	15	
	2	16.01	15.94	16.08	14	6.9
Endosulfan I	1	15.52	15.45	15.59	5.3	
	2	15.39	15.33	15.47	5.4	1.9
Endosulfan II	1	17.08	17.01	17.15	14	
	2	17.14	17.07	17.21	13	7.4
Endosulfan sulfate	1	18.96	18.89	19.02	13	
	2	18.47	18.40	18.54	12	8.0
Endrin	1	16.58	16.51	16.65	13	
	2	16.68	16.60	16.74	13	0.0
Endrin Aldehyde	1	18.00	17.93	18.07	7.9	
	2	17.88	17.80	17.95	7.8	1.3
Heptachlor	1	12.45	12.38	12.52	6.5	
	2	12.41	12.34	12.47	5.8	11.4
Heptachlor Epoxide	1	14.63	14.56	14.70	6.3	
	2	14.52	14.45	14.59	5.3	17.2

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB85-1.5-2.5MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 0051919-MSD1 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Methoxychlor	1	18.40	18.33	18.47	15	
	2	19.10	19.03	19.17	15	0.0
Endrin Ketone	1	19.57	19.50	19.64	14	
	2	19.62	19.55	19.69	13	7.4
gamma-Chlordane	1	14.91	14.84	14.98	5.4	
	2	14.95	14.88	15.02	5.4	0.0
alpha-Chlordane	1	15.22	15.15	15.29	6.2	
	2	15.28	15.21	15.35	7.1	13.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SB86-3-4

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-12 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
delta-BHC	1	11.90	11.85	11.99	0.40	
	2	12.33	12.22	12.36	0.46	14.0
4,4'-DDE	1	15.41	15.34	15.48	0.57	
	2	15.69	15.61	15.75	0.54	5.4
4,4'-DDT	1	17.35	17.27	17.41	2.7	
	2	17.61	17.55	17.69	2.9	7.1
Dieldrin	1	16.06	15.99	16.13	1.7	
	2	16.01	15.94	16.08	1.3	26.7
gamma-Chlordane	1	14.89	14.84	14.98	0.38	
	2	15.00	14.88	15.02	0.86	77.4
alpha-Chlordane	1	15.17	15.15	15.29	0.38	
	2	15.25	15.21	15.35	0.70	59.2
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS62-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-09 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.13	13.11	13.25	26	
	2	13.16	13.10	13.24	5.2	133.3
beta-BHC	1	11.49	11.41	11.55	3.2	
	2	11.55	11.50	11.64	34	165.6
delta-BHC	1	11.94	11.85	11.99	5.8	
	2	12.28	12.22	12.36	4.5	25.2
Dieldrin	1	16.04	15.99	16.13	18	
	2	16.01	15.94	16.08	200	167.0
Endosulfan I	1	15.51	15.45	15.59	1.9	
	2	15.35	15.33	15.47	5.3	94.4
Endosulfan sulfate	1	18.99	18.89	19.02	16	
	2	18.47	18.40	18.54	49	101.5
Endrin	1	16.61	16.51	16.65	220	
	2	16.61	16.60	16.74	1.9	196.6
Endrin Aldehyde	1	18.01	17.93	18.07	2.9	
	2	17.89	17.80	17.95	12	122.1

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS62-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-09 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Heptachlor	1	12.41	12.38	12.52	5.1	
	2	12.38	12.34	12.47	16	103.3
Heptachlor Epoxide	1	14.66	14.56	14.70	2.3	
	2	14.55	14.45	14.59	6.0	89.2
alpha-Chlordane	1	15.20	15.15	15.29	7.5	
	2	15.24	15.21	15.35	1.7	126.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS62-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-09RE1 Date(s) Analyzed: 06/03/10 06/03/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
delta-BHC	1	11.83	11.74	11.88	15	
	2	12.18	12.12	12.26	5.6	91.3
4,4'-DDT	1	17.23	17.16	17.30	18	
	2	17.44	17.44	17.58	22	20.0
Dieldrin	1	15.93	15.87	16.02	65	
	2	15.90	15.82	15.96	270	122.4
Endosulfan sulfate	1	18.79	18.77	18.91	17	
	2	18.36	18.29	18.43	99	141.4
Heptachlor	1	12.31	12.27	12.41	13	
	2	12.29	12.23	12.37	19	37.5
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS71-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-17 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	15.40	15.34	15.48	1.4	
	2	15.68	15.61	15.75	1.4	0.0
4,4'-DDT	1	17.34	17.27	17.41	1.2	
	2	17.62	17.55	17.69	1.1	8.7
Heptachlor	1	12.47	12.38	12.52	0.19	
	2	12.39	12.34	12.47	0.30	44.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS71D-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-18 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDE	1	15.41	15.34	15.48	4.4	
	2	15.68	15.61	15.75	4.0	9.5
4,4'-DDT	1	17.34	17.27	17.41	2.5	
	2	17.62	17.55	17.69	2.5	0.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS74-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-10 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	11.52	11.41	11.55	0.35	
	2	11.55	11.50	11.64	0.88	86.2
Dieldrin	1	16.06	15.99	16.13	1.4	
	2	16.00	15.94	16.08	1.1	24.0
Endosulfan sulfate	1	18.99	18.89	19.02	1.7	
	2	18.48	18.40	18.54	2.4	34.1
gamma-Chlordane	1	14.91	14.84	14.98	0.32	
	2	14.95	14.88	15.02	0.60	60.9
alpha-Chlordane	1	15.19	15.15	15.29	0.36	
	2	15.25	15.21	15.35	0.52	36.4
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS77-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-03 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
beta-BHC	1	11.51	11.41	11.55	0.66	
	2	11.55	11.50	11.64	0.76	14.1
alpha-BHC	1	10.34	10.32	10.46	0.27	
	2	10.34	10.32	10.46	0.32	16.9
delta-BHC	1	11.90	11.85	11.99	0.34	
	2	12.33	12.22	12.36	7.0	181.5
4,4'-DDE	1	15.40	15.34	15.48	1.5	
	2	15.68	15.61	15.75	1.3	14.3
4,4'-DDT	1	17.35	17.27	17.41	3.0	
	2	17.60	17.55	17.69	2.7	10.5
Dieldrin	1	16.03	15.99	16.13	47	
	2	15.94	15.94	16.08	1.0	191.7
gamma-Chlordane	1	14.95	14.84	14.98	6.5	
	2	14.94	14.88	15.02	0.87	152.8
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SS77-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-03RE1 Date(s) Analyzed: 06/03/10 06/03/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Endosulfan II	1	17.02	16.89	17.03	8.1	
	2	17.02	16.95	17.09	12	38.8
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.
SS79-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-05 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
delta-BHC	1	11.94	11.85	11.99	0.21	
	2	12.34	12.22	12.36	2.4	167.8
4,4'-DDT	1	17.36	17.27	17.41	2.0	
	2	17.59	17.55	17.69	1.4	35.3
Endosulfan II	1	17.03	17.01	17.15	0.36	
	2	17.14	17.07	17.21	5.7	176.2
Endosulfan sulfate	1	18.90	18.89	19.02	4.4	
	2	18.45	18.40	18.54	2.5	55.1
Endrin	1	16.57	16.51	16.65	0.64	
	2	16.74	16.60	16.74	1.8	95.1
Heptachlor Epoxide	1	14.64	14.56	14.70	2.4	
	2	14.45	14.45	14.59	0.27	159.6
alpha-Chlordane	1	15.24	15.15	15.29	0.17	
	2	15.25	15.21	15.35	0.55	105.6
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS81-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-15 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
gamma-Chlordane	1	14.88	14.84	14.98	0.23	
	2	14.97	14.88	15.02	5.1	182.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS83-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-07 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
delta-BHC	1	11.94	11.85	11.99	1.1	
	2	12.33	12.22	12.36	0.48	78.5
4,4'-DDE	1	15.40	15.34	15.48	0.96	
	2	15.68	15.61	15.75	1.0	4.1
Endosulfan I	1	15.51	15.45	15.59	0.54	
	2	15.39	15.33	15.47	0.45	18.2
Endosulfan sulfate	1	18.99	18.89	19.02	2.2	
	2	18.45	18.40	18.54	7.7	111.1
Heptachlor	1	12.41	12.38	12.52	0.65	
	2	12.39	12.34	12.47	0.21	102.3
Methoxychlor	1	18.37	18.33	18.47	18	
	2	19.05	19.03	19.17	7.2	85.7
Endrin Ketone	1	19.64	19.50	19.64	2.4	
	2	19.64	19.55	19.69	7.5	103.0
alpha-Chlordane	1	15.18	15.15	15.29	0.75	
	2	15.25	15.21	15.35	0.74	1.3

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS84-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-13 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
Aldrin	1	13.14	13.11	13.25	0.20	
	2	13.21	13.10	13.24	0.50	85.7
4,4'-DDD	1	16.73	16.66	16.80	5.6	
	2	16.95	16.87	17.02	6.7	17.9
4,4'-DDE	1	15.41	15.34	15.48	41	
	2	15.69	15.61	15.75	38	7.6
4,4'-DDT	1	17.35	17.27	17.41	17	
	2	17.62	17.55	17.69	16	6.1
Dieldrin	1	16.03	15.99	16.13	11	
	2	15.97	15.94	16.08	0.73	175.1
Endrin Aldehyde	1	18.05	17.93	18.07	0.53	
	2	17.93	17.80	17.95	1.6	100.5
Heptachlor	1	12.42	12.38	12.52	1.4	
	2	12.42	12.34	12.47	0.39	112.8
Heptachlor Epoxide	1	14.63	14.56	14.70	2.4	
	2	14.46	14.45	14.59	0.23	165.0

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS84-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-13 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
gamma-Chlordane	1	14.97	14.84	14.98	8.4	
	2	14.99	14.88	15.02	1.4	142.8
alpha-Chlordane	1	15.25	15.15	15.29	0.54	
	2	15.25	15.21	15.35	0.84	43.5
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS84-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-13RE1 Date(s) Analyzed: 06/03/10 06/03/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDD	1	16.62	16.55	16.69	5.5	
	2	16.84	16.76	16.90	6.1	10.3
4,4'-DDE	1	15.30	15.22	15.37	39	
	2	15.58	15.51	15.64	34	13.7
4,4'-DDT	1	17.24	17.16	17.30	19	
	2	17.51	17.44	17.58	14	30.3
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS86-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-11 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDD	1	16.73	16.66	16.80	6.4	
	2	16.95	16.87	17.02	5.6	13.3
4,4'-DDE	1	15.41	15.34	15.48	72	
	2	15.69	15.61	15.75	67	7.2
4,4'-DDT	1	17.35	17.27	17.41	12	
	2	17.62	17.55	17.69	16	28.6
Dieldrin	1	16.07	15.99	16.13	160	
	2	16.01	15.94	16.08	180	11.8
Endrin	1	16.57	16.51	16.65	2.3	
	2	16.67	16.60	16.74	1.2	62.8
Heptachlor	1	12.42	12.38	12.52	0.37	
	2	12.35	12.34	12.47	42	196.5
Heptachlor Epoxide	1	14.64	14.56	14.70	3.7	
	2	14.45	14.45	14.59	0.50	152.4
gamma-Chlordane	1	14.91	14.84	14.98	4.1	
	2	14.95	14.88	15.02	5.3	25.5

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS86-0-1

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-11 Date(s) Analyzed: 06/02/10 06/02/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
alpha-Chlordane	1	15.21	15.15	15.29	9.8	
	2	15.28	15.21	15.35	5.0	64.9
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

SS86-0-1DL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab Sample ID: 1005132-11RE1 Date(s) Analyzed: 06/03/10 06/03/10

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC82

GC Column(1): CLPEST ID: 0.32(mm) GC Column(2): CLPEST2 ID: 0.32(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	RPD
4,4'-DDD	1	16.62	16.55	16.69	6.6	
	2	16.84	16.76	16.90	5.8	12.9
4,4'-DDE	1	15.30	15.22	15.37	69	
	2	15.58	15.51	15.64	59	15.6
4,4'-DDT	1	17.23	17.16	17.30	18	
	2	17.51	17.44	17.58	11	48.3
Dieldrin	1	15.95	15.87	16.02	190	
	2	15.90	15.82	15.96	150	23.5
gamma-Chlordane	1	14.80	14.73	14.87	4.2	
	2	14.84	14.77	14.91	6.4	41.5
alpha-Chlordane	1	15.10	15.03	15.17	11	
	2	15.17	15.10	15.24	5.3	69.9
	1					
	2					
	1					
	2					

FORM X PEST-1

e. Identification Summary for Multicomponent Analytes (Form X) – if applicable

For all samples with positively identified multicomponent analytes, in order by increasing Client Sample ID number.

f. Chromatograms and Data System Printouts

For all methods, standards packages shall include
The following:

- Performance evaluation mixtures (8081 only)
- Initial Calibration Standards
- Second Source Initial Calibration Verifications (if required by client)
- Continuing Calibration Verification Standards
- The quantitation report must include the Client Sample ID number.
- The chromatograms shall include the following: Client Sample ID number for the standard, labeled standard peaks, volume injected, for each standard, date and time of injection, GC column identifier, and GC Instrument identifier

Data File: /chem/tracegc82.i/f100601.b/003f0F01010-PEM1.d

Date : 01-JUN-2010 16:47

Client ID: PEMFA

Instrument: tracegc82.i

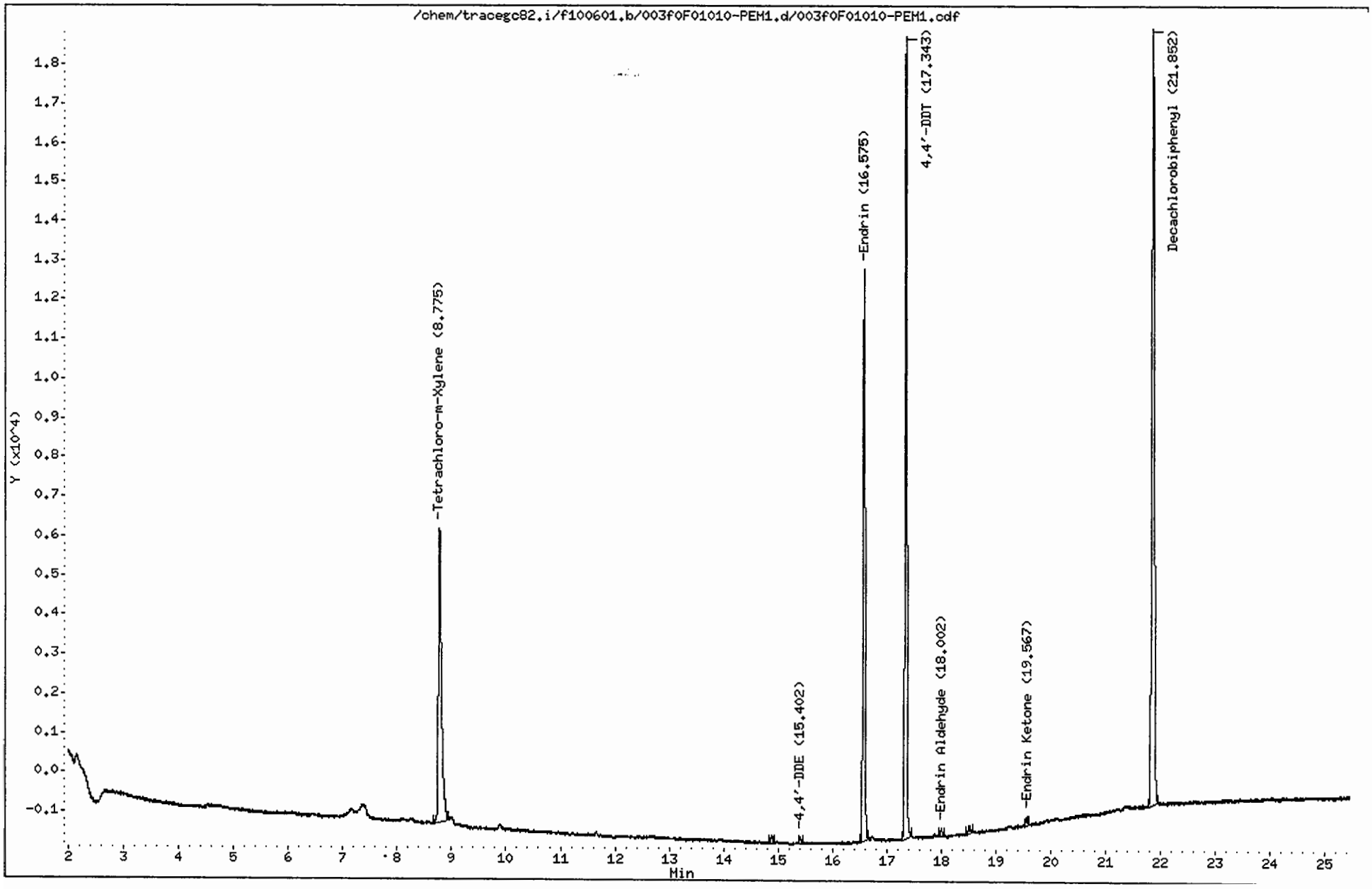
Sample Info: 0F01010-PEM1

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-PEM1 Client Smp Id : PEMFA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 01-JUN-2010 16:47 Inst ID : TRACEGC82
Operator : System
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : PEMFA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.27			313								
1.35			34780								
1.96			494								
8.78	8.73	8.87	29812	1587700	Tetrachloro-m-Xylene	0.018777	0.018777		94.8	43 - 135	
14.88			502								
15.40	15.34	15.48	387	2012896	4,4'-DDE	0.000192	0.000192	0.020000			J
16.58	16.51	16.65	36538	1695798	Endrin	0.021546	0.021546	0.020000			
17.34	17.27	17.41	48767	1722489	4,4'-DDT	0.028312	0.028312	0.020000			
18.00	17.93	18.07	498	1371845	Endrin Aldehyde	0.000363	0.000363	0.020000			J
18.52			724								
19.57	19.49	19.63	611	1849761	Endrin Ketone	0.000330	0.000330	0.020000			J
21.85	21.79	21.93	63536	1622138	Decachlorobiphenyl	0.039168	0.039168		98.9	43 - 144	

Data File: /chem/tracegc82.i/f100601.b/004f0F01010-CAL1.d

Page 1

Date : 01-JUN-2010 17:16

Client ID: INDC1FA

Instrument: tracegc82.i

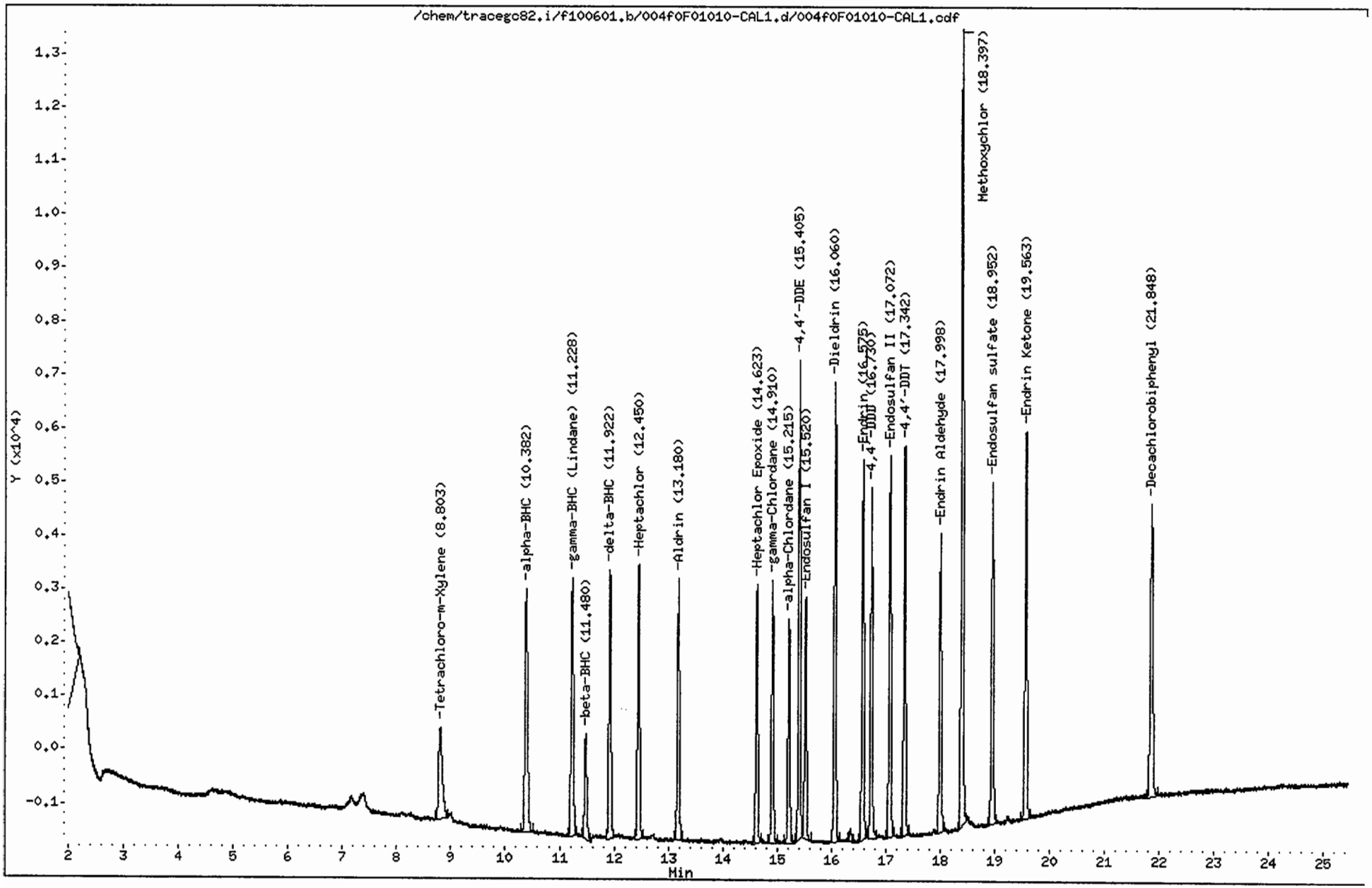
Sample Info: 0F01010-CAL1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL1 Client Smp Id : INDC1FA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 01-JUN-2010 17:16 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : INDC1FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.49			300736					
8.80	8.72	8.86	8284	1587700	Tetrachloro-m-Xylene	0.005000	1656600	
10.38	10.31	10.45	15151	3028788	alpha-BHC	0.005000	3030200	
11.23	11.16	11.30	14081	2817265	gamma-BHC (Lindane)	0.005000	2816200	
11.48	11.41	11.55	5716	1035150	beta-BHC	0.005000	1143000	
11.92	11.85	11.99	13477	2721052	delta-BHC	0.005000	2695200	
12.45	12.38	12.52	13597	2589888	Heptachlor	0.005000	2719400	
13.18	13.11	13.25	12408	2391920	Aldrin	0.005000	2481400	
14.62	14.56	14.70	11819	2235460	Heptachlor Epoxide	0.005000	2363600	
14.91	14.84	14.98	11957	2245768	gamma-Chlordane	0.005000	2391400	
15.22	15.14	15.28	10168	1924148	alpha-Chlordane	0.005000	2033400	
15.40	15.34	15.48	20528	2012896	4,4'-DDE	0.010000	2052700	
15.52	15.45	15.59	10850	2067970	Endosulfan I	0.005000	2170000	
16.06	15.99	16.13	20908	2037205	Dieldrin	0.010000	2090800	
16.35			588					
16.58	16.51	16.65	17519	1695798	Endrin	0.010000	1751800	
16.73	16.66	16.80	15537	1534440	4,4'-DDD	0.010000	1553600	
17.07	17.01	17.15	17905	1759840	Endosulfan II	0.010000	1790500	
17.34	17.27	17.41	17446	1722489	4,4'-DDT	0.010000	1744600	
18.00	17.93	18.07	13908	1371845	Endrin Aldehyde	0.010000	1390800	
18.40	18.33	18.47	37104	731447	Methoxychlor	0.050000	742080	
18.95	18.88	19.02	16178	1574194	Endosulfan sulfate	0.010000	1617800	
19.56	19.50	19.64	18824	1849761	Endrin Ketone	0.010000	1882300	
21.85	21.78	21.92	17533	1622138	Decachlorobiphenyl	0.010000	1753300	

Data File: /chem/tracegc82.i/f100601.b/005f0F01010-CAL2.d

Date : 01-JUN-2010 17:45

Client ID: INDC2FA

Instrument: tracegc82.i

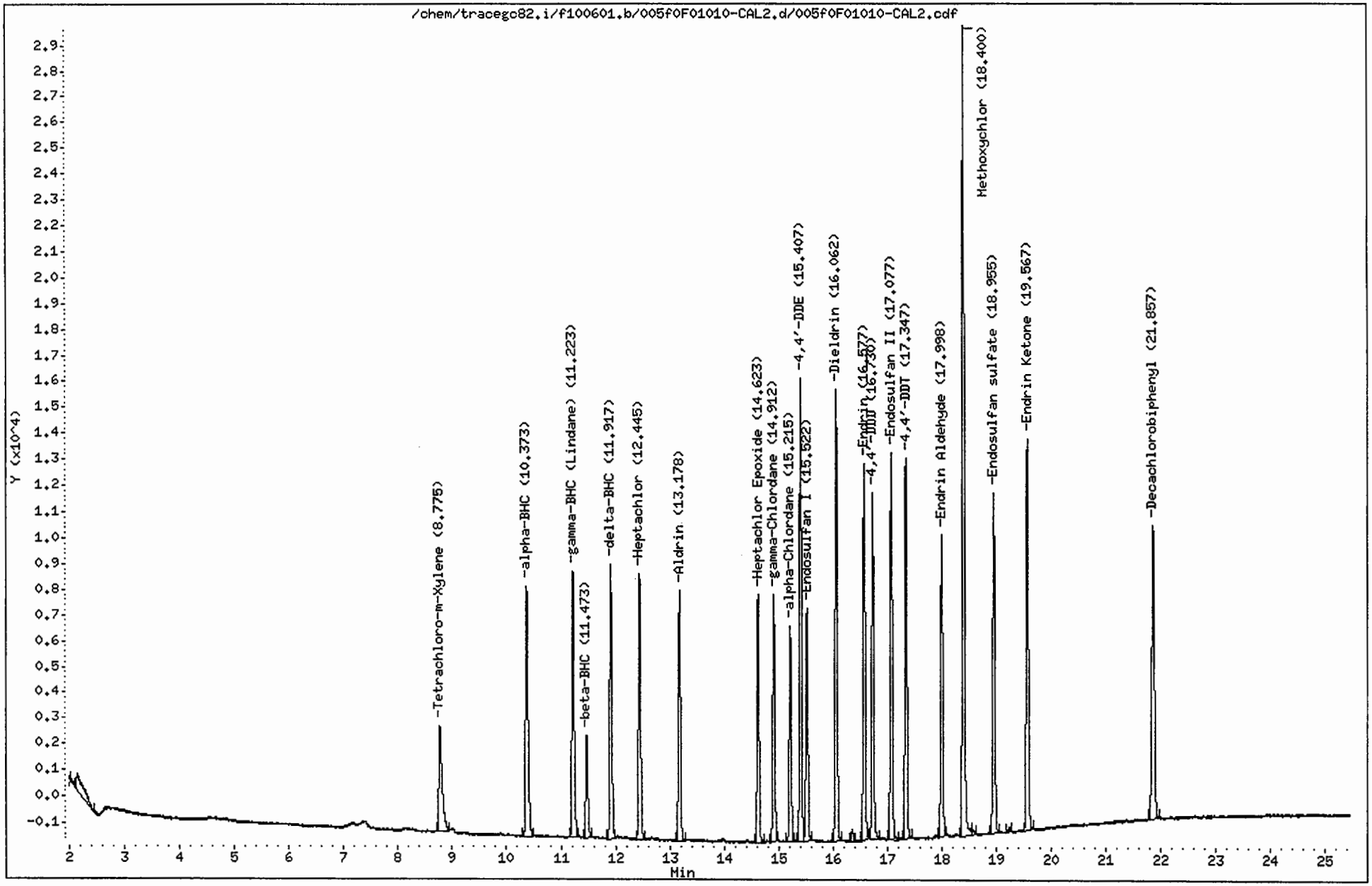
Sample Info: 0F01010-CAL2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL2 Client Smp Id : INDC2FA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 01-JUN-2010 17:45 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : INDC2FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.35			32860					
1.98			1174					
2.15			5927					
8.78	8.72	8.86	15985	1587700	Tetrachloro-m-Xylene	0.010000	1598500	
10.37	10.31	10.45	30334	3028788	alpha-BHC	0.010000	3033400	
11.22	11.16	11.30	28195	2817265	gamma-BHC (Lindane)	0.010000	2819400	
11.47	11.41	11.55	10467	1035150	beta-BHC	0.010000	1046700	
11.92	11.85	11.99	27325	2721052	delta-BHC	0.010000	2732500	
12.44	12.38	12.52	26480	2589888	Heptachlor	0.010000	2647900	
13.18	13.11	13.25	24524	2391920	Aldrin	0.010000	2452300	
14.62	14.56	14.70	23275	2235460	Heptachlor Epoxide	0.010000	2327400	
14.91	14.84	14.98	23459	2245768	gamma-Chlordane	0.010000	2345800	
15.22	15.14	15.28	19958	1924148	alpha-Chlordane	0.010000	1995700	
15.41	15.34	15.48	41461	2012896	4,4'-DDE	0.020000	2073000	
15.52	15.45	15.59	22131	2067970	Endosulfan I	0.010000	2213100	
16.06	15.99	16.13	42205	2037205	Dieldrin	0.020000	2110200	
16.36			1108					
16.58	16.51	16.65	35501	1695798	Endrin	0.020000	1775000	
16.73	16.66	16.80	31906	1534440	4,4'-DDD	0.020000	1595300	
17.08	17.01	17.15	37219	1759840	Endosulfan II	0.020000	1860900	
17.35	17.27	17.41	35656	1722489	4,4'-DDT	0.020000	1782800	
18.00	17.93	18.07	29289	1371845	Endrin Aldehyde	0.020000	1464450	
18.40	18.33	18.47	79225	731447	Methoxychlor	0.100000	792240	
18.57			504					
18.96	18.88	19.02	33883	1574194	Endosulfan sulfate	0.020000	1694100	
19.24			509					
19.57	19.50	19.64	39978	1849761	Endrin Ketone	0.020000	1998900	
21.86	21.78	21.92	36793	1622138	Decachlorobiphenyl	0.020000	1839650	

Data File: /chem/tracegc82.i/f100601.b/006f0F01010-CAL3.d

Date : 01-JUN-2010 18:14

Client ID: INDC3FA

Instrument: tracegc82.i

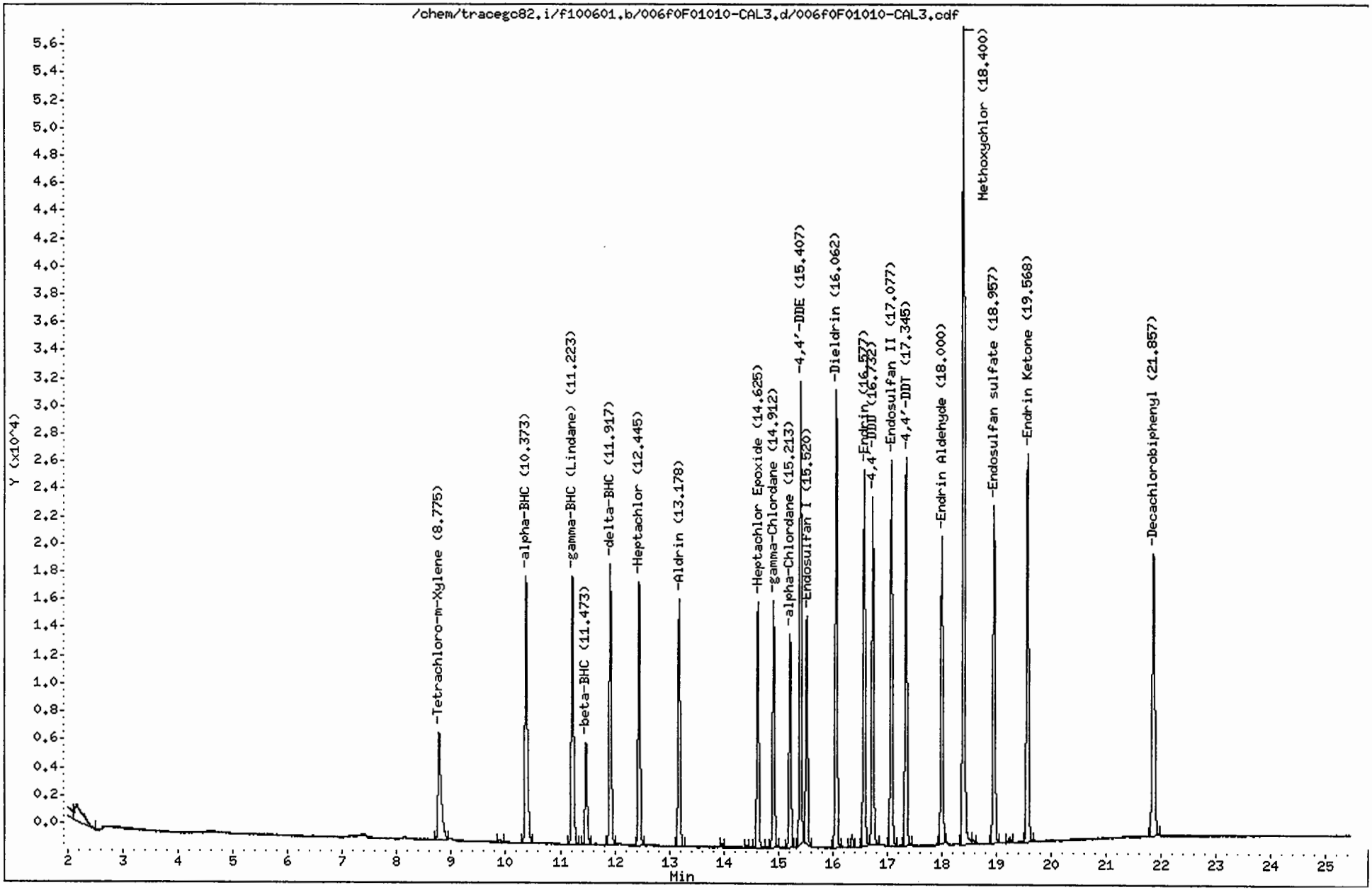
Sample Info: 0F01010-CAL3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL3 Client Smp Id : INDC3FA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 01-JUN-2010 18:14 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : INDC3FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.28			294					
1.35			17081					
1.89			391					
1.99			6462					
2.16			12662					
8.78	8.72	8.86	30501	1587700	Tetrachloro-m-Xylene	0.020000	1525050	
9.89			547					
10.37	10.31	10.45	57738	3028788	alpha-BHC	0.020000	2886900	
11.22	11.16	11.30	53833	2817265	gamma-BHC (Lindane)	0.020000	2691650	
11.47	11.41	11.55	19694	1035150	beta-BHC	0.020000	984700	
11.92	11.85	11.99	52238	2721052	delta-BHC	0.020000	2611850	
12.44	12.38	12.52	49076	2589888	Heptachlor	0.020000	2453800	
13.18	13.11	13.25	45826	2391920	Aldrin	0.020000	2291300	
13.97			512					
14.42			337					
14.62	14.56	14.70	43148	2235460	Heptachlor Epoxide	0.020000	2157400	
14.91	14.84	14.98	42920	2245768	gamma-Chlordane	0.020000	2145950	
15.21	15.14	15.28	37186	1924148	alpha-Chlordane	0.020000	1859250	
15.41	15.34	15.48	76210	2012896	4,4'-DDE	0.040000	1905225	
15.52	15.45	15.59	39329	2067970	Endosulfan I	0.020000	1966450	
16.06	15.99	16.13	79097	2037205	Dieldrin	0.040000	1977400	
16.36			2136					
16.58	16.51	16.65	66882	1695798	Endrin	0.040000	1672025	
16.73	16.66	16.80	59639	1534440	4,4'-DDD	0.040000	1490950	
17.08	17.01	17.15	69840	1759840	Endosulfan II	0.040000	1746000	
17.34	17.27	17.41	66759	1722489	4,4'-DDT	0.040000	1668975	
18.00	17.93	18.07	55625	1371845	Endrin Aldehyde	0.040000	1390600	
18.40	18.33	18.47	145796	731447	Methoxychlor	0.200000	728975	
18.57			778					
18.96	18.88	19.02	62596	1574194	Endosulfan sulfate	0.040000	1564875	
19.24			1074					
19.57	19.50	19.64	74025	1849761	Endrin Ketone	0.040000	1850625	
21.86	21.78	21.92	65764	1622138	Decachlorobiphenyl	0.040000	1644075	

Data File: /chem/tracegc82.i/f100601.b/007f0F01010-CAL4.d

Page 1

Date : 01-JUN-2010 18:43

Client ID: INDC4FA

Instrument: tracegc82.i

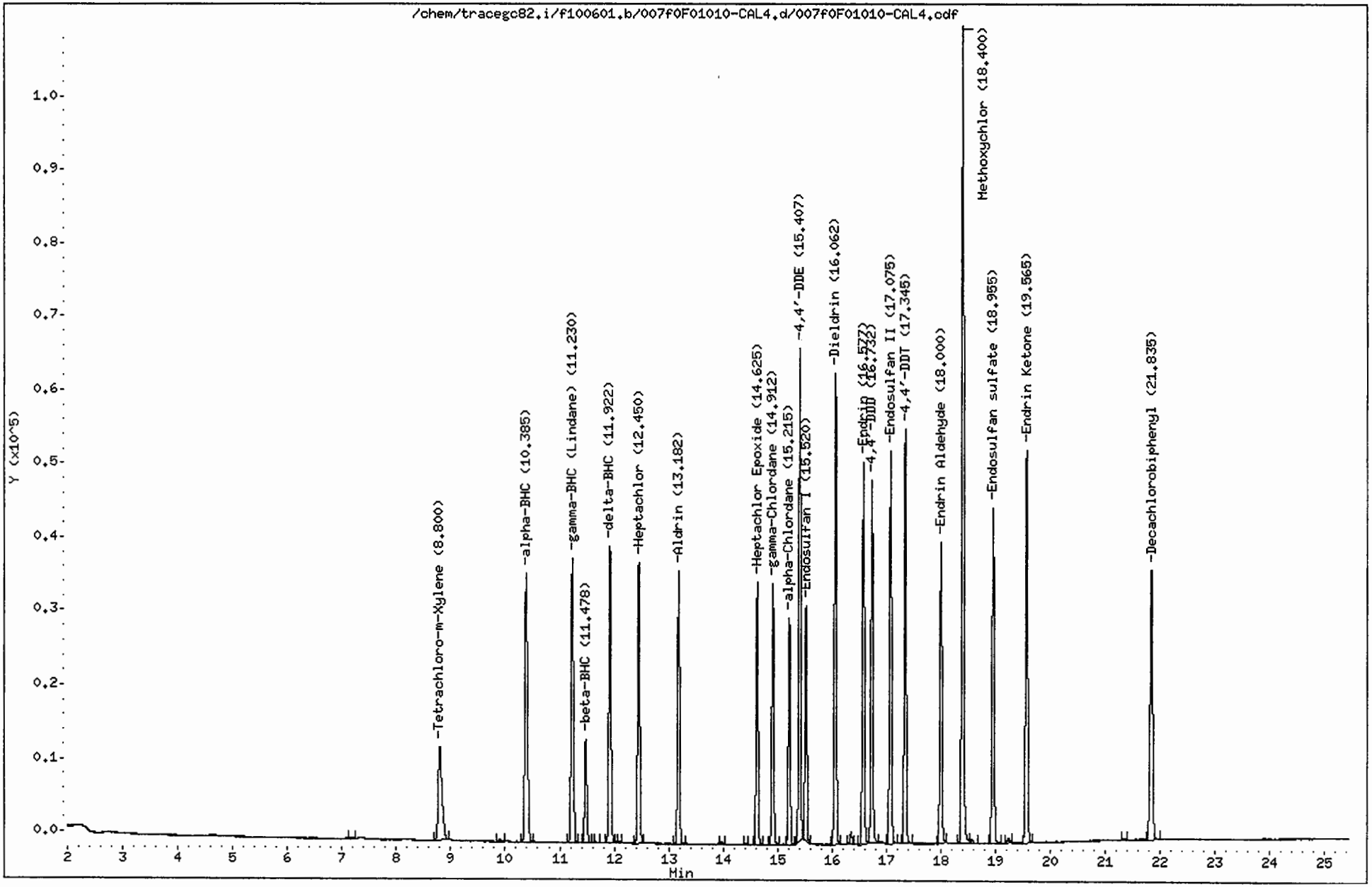
Sample Info: 0F01010-CAL4

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL4 Client Smp Id : INDC4FA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 01-JUN-2010 18:43 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : INDC4FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.25			365					
1.36			3060					
1.44			36991					
7.16			418					
8.80	8.72	8.86	62765	1587700	Tetrachloro-m-Xylene	0.040000	1569125	
9.90			1063					
10.38	10.31	10.45	121064	3028788	alpha-BHC	0.040000	3026575	
11.23	11.16	11.30	112713	2817265	gamma-BHC (Lindane)	0.040000	2817825	
11.48	11.41	11.55	39699	1035150	beta-BHC	0.040000	992475	
11.66			408					
11.92	11.85	11.99	108378	2721052	delta-BHC	0.040000	2709425	
12.09			369					
12.45	12.38	12.52	101312	2589888	Heptachlor	0.040000	2532775	
13.18	13.11	13.25	93602	2391920	Aldrin	0.040000	2340025	
13.97			984					
14.42			611					
14.62	14.56	14.70	85897	2235460	Heptachlor Epoxide	0.040000	2147425	
14.91	14.84	14.98	86146	2245768	gamma-Chlordane	0.040000	2153625	
15.22	15.14	15.28	74160	1924148	alpha-Chlordane	0.040000	1854000	
15.41	15.34	15.48	155562	2012896	4,4'-DDE	0.080000	1944513	
15.52	15.45	15.59	78024	2067970	Endosulfan I	0.040000	1950600	
16.06	15.99	16.13	157474	2037205	Dieldrin	0.080000	1968413	
16.35			4049					
16.58	16.51	16.65	129294	1695798	Endrin	0.080000	1616175	
16.73	16.66	16.80	118476	1534440	4,4'-DDD	0.080000	1480937	
17.08	17.01	17.15	133902	1759840	Endosulfan II	0.080000	1673775	
17.34	17.27	17.41	133186	1722489	4,4'-DDT	0.080000	1664813	
18.00	17.93	18.07	103640	1371845	Endrin Aldehyde	0.080000	1295500	
18.40	18.33	18.47	276134	731447	Methoxychlor	0.400000	690335	
18.57			1624					
18.96	18.88	19.02	118448	1574194	Endosulfan sulfate	0.080000	1480600	
19.23			1826					
19.56	19.50	19.64	139108	1849761	Endrin Ketone	0.080000	1738850	
21.35			359					
21.84	21.78	21.92	116227	1622138	Decachlorobiphenyl	0.080000	1452837	

Data File: /chem/tracegc82.i/f100601.b/008f0F01010-CAL5.d

Page 1

Date : 01-JUN-2010 19:13

Client ID: INDC5FA

Instrument: tracegc82.i

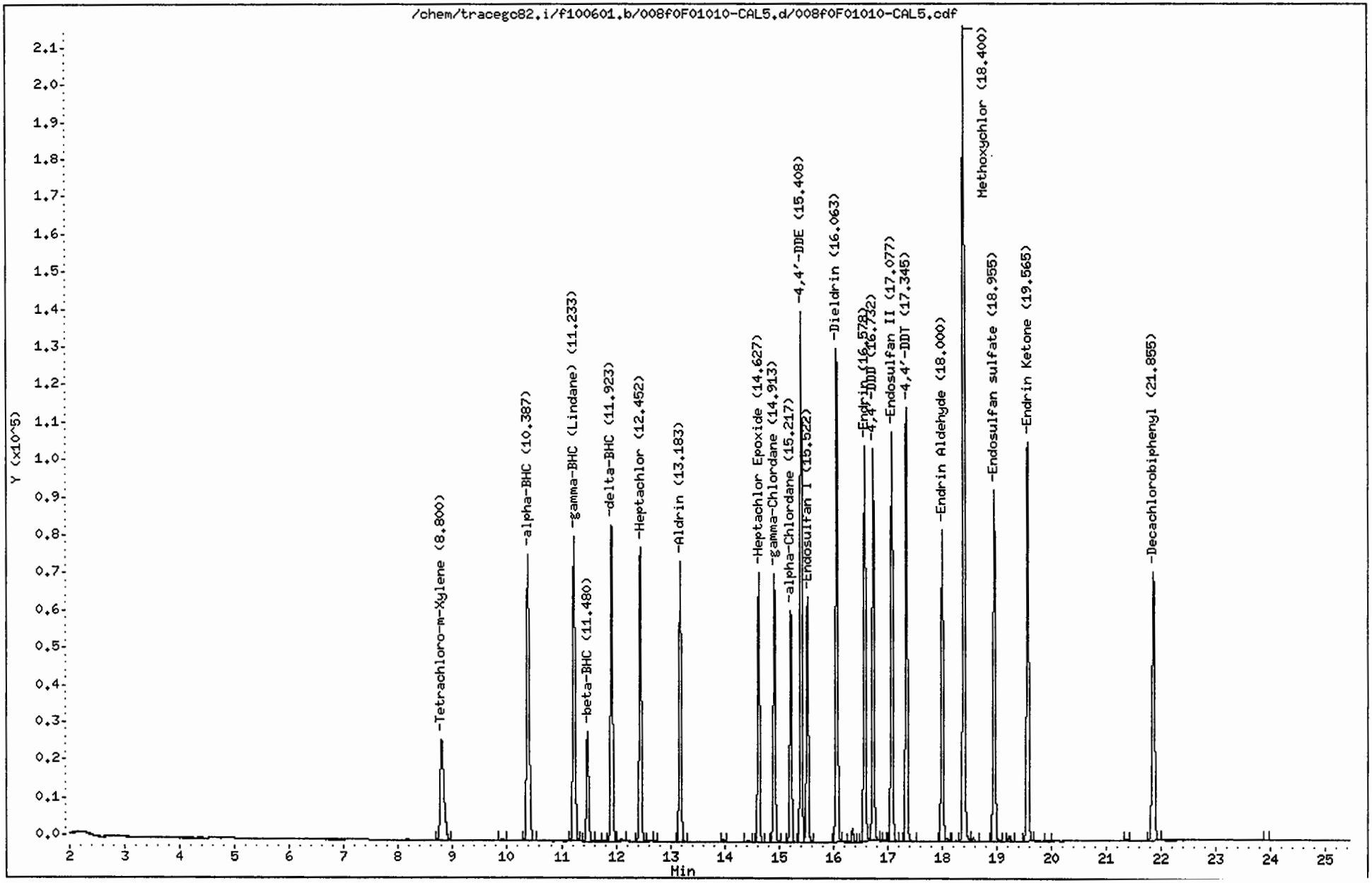
Sample Info: 0F01010-CAL5

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL5 Client Smp Id : INDC5FA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 01-JUN-2010 19:13 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : INDC5FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.37			1459					
1.45			37960					
8.80	8.72	8.86	127138	1587700	Tetrachloro-m-Xylene	0.080000	1589213	
9.89			1992					
10.39	10.31	10.45	253350	3028788	alpha-BHC	0.080000	3166863	
11.23	11.16	11.30	235300	2817265	gamma-BHC (Lindane)	0.080000	2941250	
11.48	11.41	11.55	80710	1035150	beta-BHC	0.080000	1008875	
11.66			957					
11.92	11.85	11.99	228504	2721052	delta-BHC	0.080000	2856287	
12.09			1891					
12.45	12.38	12.52	207646	2589888	Heptachlor	0.080000	2595563	
12.71			589					
13.18	13.11	13.25	191566	2391920	Aldrin	0.080000	2394575	
13.97			2029					
14.42			1270					
14.63	14.56	14.70	174519	2235460	Heptachlor Epoxide	0.080000	2181475	
14.91	14.84	14.98	175365	2245768	gamma-Chlordane	0.080000	2192063	
15.22	15.14	15.28	150271	1924148	alpha-Chlordane	0.080000	1878387	
15.41	15.34	15.48	334247	2012896	4,4'-DDE	0.160000	2089044	
15.52	15.45	15.59	163177	2067970	Endosulfan I	0.080000	2039700	
16.06	15.99	16.13	326275	2037205	Dieldrin	0.160000	2039213	
16.35			8496					
16.58	16.51	16.65	266238	1695798	Endrin	0.160000	1663987	
16.73	16.66	16.80	248226	1534440	4,4'-DDD	0.160000	1551413	
16.92			508					
17.08	17.01	17.15	276484	1759840	Endosulfan II	0.160000	1728025	
17.23			609					
17.34	17.27	17.41	280201	1722489	4,4'-DDT	0.160000	1751256	
18.00	17.93	18.07	210860	1371845	Endrin Aldehyde	0.160000	1317875	
18.09			2240					
18.23			735					
18.40	18.33	18.47	562883	731447	Methoxychlor	0.800000	703604	
18.57			2729					
18.96	18.88	19.02	242176	1574194	Endosulfan sulfate	0.160000	1513594	
19.23			3897					
19.56	19.50	19.64	284501	1849761	Endrin Ketone	0.160000	1778131	
19.92			383					
21.36			768					
21.86	21.78	21.92	227333	1622138	Decachlorobiphenyl	0.160000	1420825	
23.92			441					

Data File: /chem/tracegc82.i/f100601.b/009f0F01010-ARC1.d

Page 1

Date : 01-JUN-2010 19:42

Client ID: TOXAPH3FA

Instrument: tracegc82.i

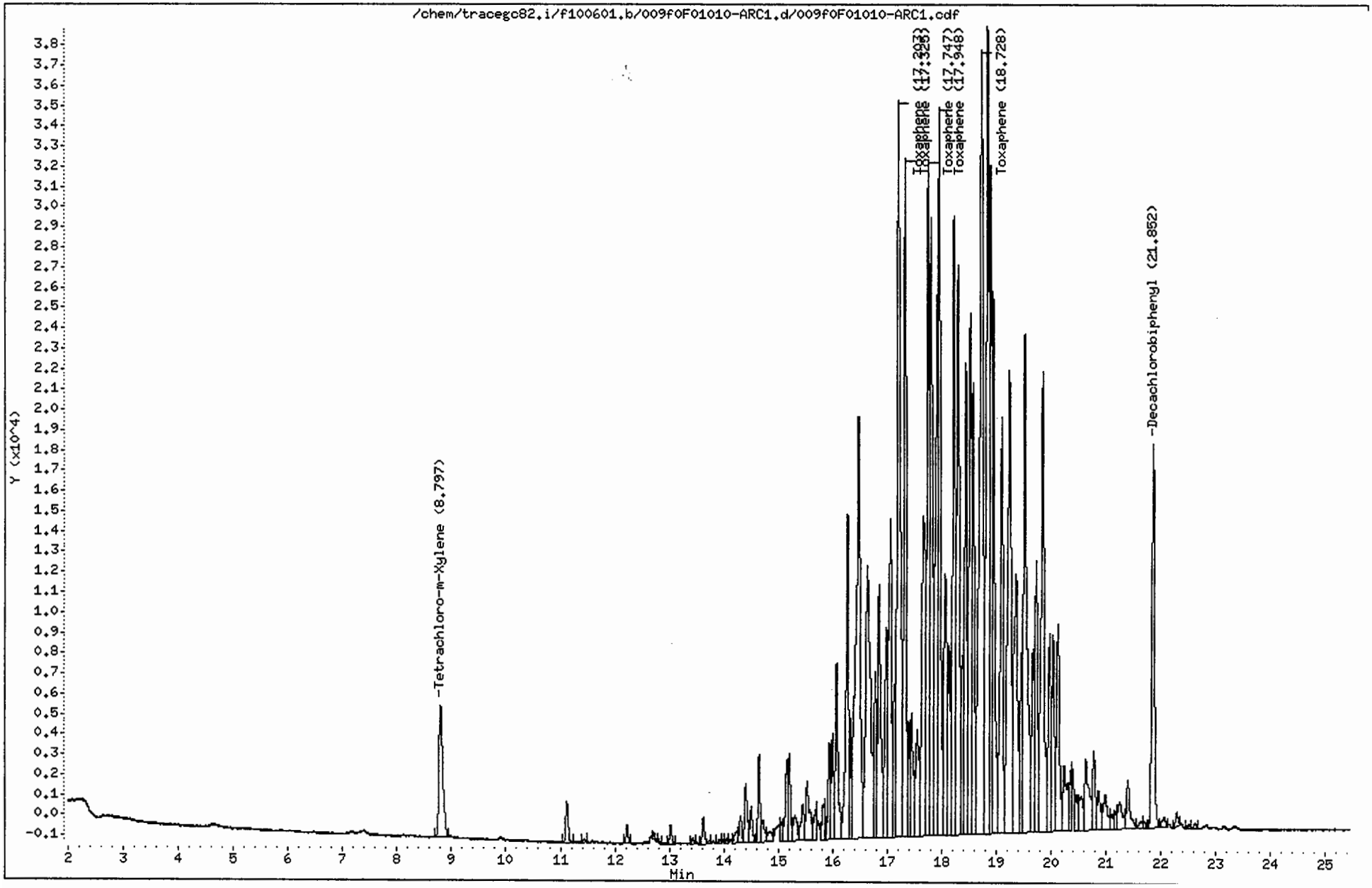
Sample Info: 0F01010-ARC1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-ARC1 Client Smp Id : TOXAPH3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 01-JUN-2010 19:42 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : TOXAPH3FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.06			644					
1.36			678					
1.44			1130					
8.80	8.72	8.86	31801	1587700	Tetrachloro-m-Xylene	0.020000	1525050	
11.12			6462					
11.44			510					
12.22			2374					
12.71			915					
12.80			426					
13.02			2523					
13.43			681					
13.63			4369					
13.91			591					
14.05			561					
14.22			2317					
14.31			3875					
14.40			9959					
14.50			5437					
14.65			11295					
14.72			4381					
14.83			2931					
15.05			3084					
15.15			12352					
15.20			11776					
15.30			6241					
15.45			7143					
15.53			13648					
15.69			4458					
15.82			5098					
15.94			14710					
16.00			14674					
16.07			29748					
16.27			50748					
16.32			14711					
16.47			117271					
16.63			82430					
16.78			25002					
16.85			48722					
16.98			38780					
17.05			56955					
17.15			20414					
17.20	17.13	17.27	149548	74774	Toxaphene Peak 1	2.000000	74774	L

CCl2

RM 6/2/10

CCl2

CompuChem

Lab Smp Id : 0F01010-ARC1 Client Smp Id : TOXAPH3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 01-JUN-2010 19:42 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : TOXAPH3FA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
17.32	17.25 17.39	97627	48813	Toxaphene Peak 2	2.000000	48813	
17.39		14333					
17.45		24258					
17.55		21533					
17.66		73233					
17.75	17.68 17.82	93208	46604	Toxaphene Peak 3	2.000000	46604	
17.80		93498					
17.91		89070					
17.95	17.88 18.02	114129	57064	Toxaphene Peak 4	2.000000	57064	
18.06		52328					
18.13		28642					
18.22		94055					
18.30		104518					
18.37		21424					
18.44		73022					
18.52		85133					
18.57		67804					
18.73	18.66 18.80	180369	90184	Toxaphene Peak 5	2.000000	90184	
18.84		140172					
18.89		95078					
18.93		83823					
19.09		72629					
19.23		105404					
19.36		64490					
19.45		23514					
19.52		107600					
19.67		27417					
19.72		45224					
19.84		91169					
19.97		32007					
20.03		31291					
20.12		39465					
20.24		17124					
20.37		8912					
20.45		5548					
20.54		8775					
20.63		19706					
20.78		13658					
20.86		7949					
20.98		8774					
21.11		2428					
21.18		2390					

6/1/10

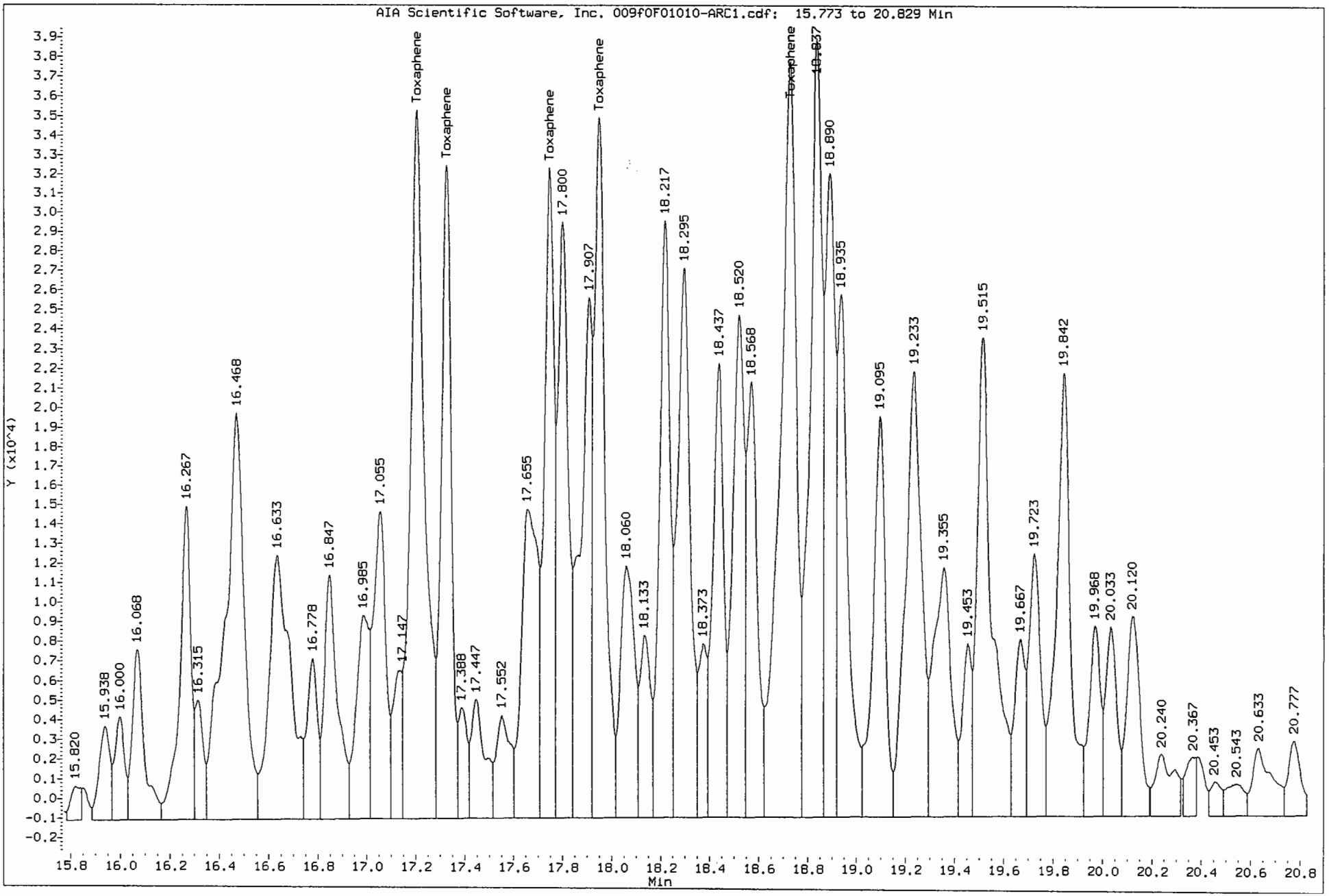
6/2/10

CompuChem

Lab Smp Id : 0F01010-ARC1 Client Smp Id : TOXAPH3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 01-JUN-2010 19:42 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : TOXAPH3FA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
21.25		7792					
21.39		10415					
21.64		1535					
21.70		977					
21.85	21.78 21.92	63576	1622138	Decachlorobiphenyl	0.040000	1644075	
22.06		1904					
22.29		2093					
22.52		845					
22.62		963					

Data File: /chem/tracegc82.i/f100601.b/009f0F01010-ARC1.d/009f0F01010-ARC1.cdf
Injection Date: 01-JUN-2010 19:42
Instrument: tracegc82.i
Client Sample ID: TOXAPH3FA



Data File: /chem/tracegc82.i/f100601.b/010f0F01010-ARC2.d

Date : 01-JUN-2010 20:11

Client ID: CHLORO3FA

Instrument: tracegc82.i

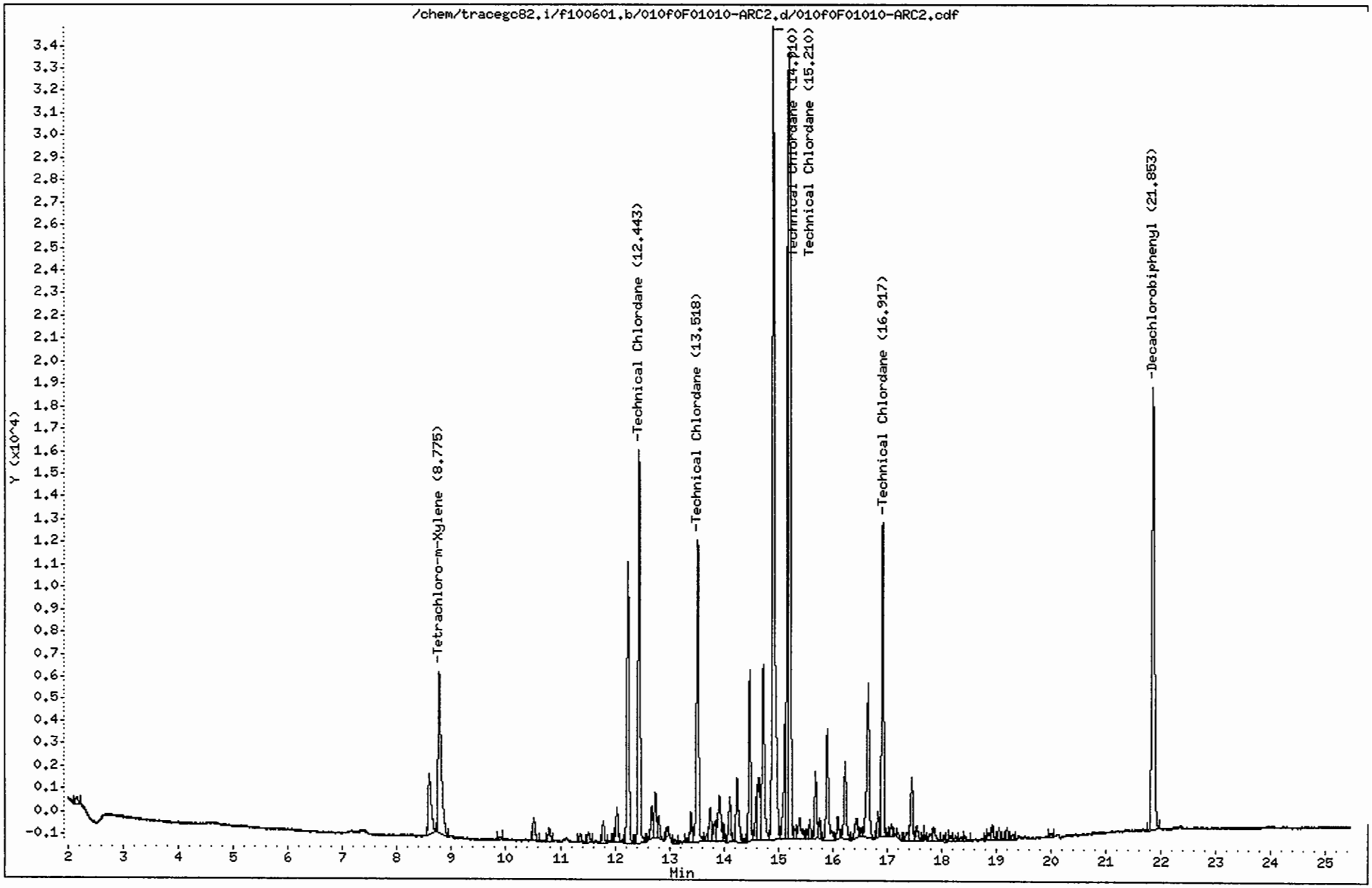
Sample Info: 0F01010-ARC2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-ARC2 Client Smp Id : CHLORO3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 01-JUN-2010 20:11 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : CHLORO3FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.22			287					
1.35			24847					
2.16			1086					
8.59			10506					
8.78	8.72	8.86	28686	1587700	Tetrachloro-m-Xylene	0.020000	1525050	
9.89			288					
10.51			3146					
10.80			1860					
11.36			1178					
11.52			1344					
11.78			2651					
11.97			903					
12.04			4135					
12.24			33165					
12.44	12.37	12.51	45873	114680	TechnicalChlordane Peak 1	0.400000	114680	
12.62			283					
12.68			3781					
12.74			5736					
12.81			2653					
12.96			1025					
13.10			501					
13.32			368					
13.39			3305					
13.52	13.45	13.59	36845	92112	TechnicalChlordane Peak 2	0.400000	92113	
13.69			824					
13.75			4509					
13.83			2328					
13.92			7879					
14.00			1576					
14.11			5550					
14.24			9461					
14.37			416					
14.47			18273					
14.61			5216					
14.64			8800					
14.72			23981					
14.91	14.84	14.98	105050	262622	TechnicalChlordane Peak 3	0.400000	262623	
15.13			12997					
15.18			68264					
15.21	15.14	15.28	82526	206312	TechnicalChlordane Peak 4	0.400000	206313	
15.30			1299					
15.39			3822					

CompuChem

Lab Smp Id : 0F01010-ARC2 Client Smp Id : CHLORO3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 01-JUN-2010 20:11 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : CHLORO3FA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.52		843					
15.58		1757					
15.69		7772					
15.76		2152					
15.90		15319					
16.09		2519					
16.23		10400					
16.44		3352					
16.52		1042					
16.65		21548					
16.83		2600					
16.92	16.85 16.99	33902	84755	TechnicalChlordane Peak 5	0.400000	84755	
17.01		378					
17.08		1219					
17.20		569					
17.36		1207					
17.46		7954					
17.55		1916					
17.67		439					
17.80		1007					
17.86		2015					
18.04		724					
18.16		699					
18.26		639					
18.36		644					
18.43		634					
18.82		328					
18.87		1072					
18.93		1773					
19.05		1377					
19.20		1420					
19.30		627					
20.00		552					
21.85	21.78 21.92	64279	1622138	Decachlorobiphenyl	0.040000	1644075	

Data File: /chem/tracegc82.i/f100601.b/011f0F01010-SCV1.d

Page 1

Date : 01-JUN-2010 20:40

Client ID: PESTCHKFA

Instrument: tracegc82.i

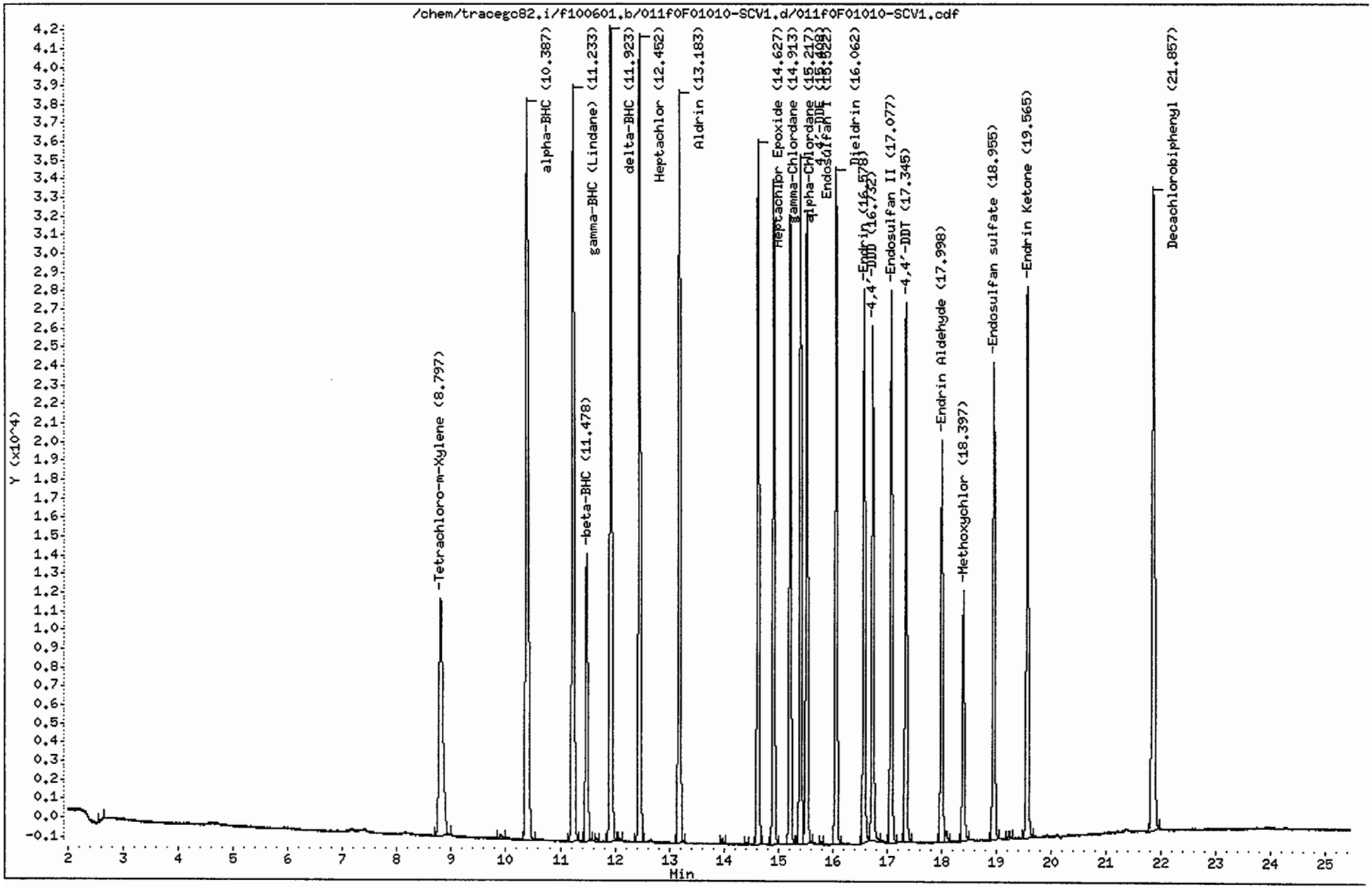
Sample Info: 0F01010-SCV1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-SCV1 Client Smp Id : PESTCHKFA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 01-JUN-2010 20:40 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : INDAchek
Method : /chem/tracegc82.i/f100601.b/8081A_clpestv6.m
Misc. Info : PESTCHKFA

RT	AREA
1.36	2249
1.44	20693
2.64	329
8.80	62247
9.91	902
10.39	132268
11.23	118738
11.48	43096
11.67	430
11.92	117713
12.09	369
12.45	113340
13.18	103156
13.97	677
14.42	341
14.63	91370
14.91	85776
15.22	81209
15.41	86175
15.52	83817
15.79	308
16.06	87846
16.58	73082
16.73	65929
17.08	73450
17.34	69417
18.00	54466
18.09	1504
18.40	33497
18.95	65399
19.24	1034
19.57	77138
21.86	111534

Data File: /chem/tracegc82.i/f100601_2C.b/003f0F01010-PEM1.d

Page 1

Date : 01-JUN-2010 16:47

Client ID: PEMFA

Instrument: tracegc82.i

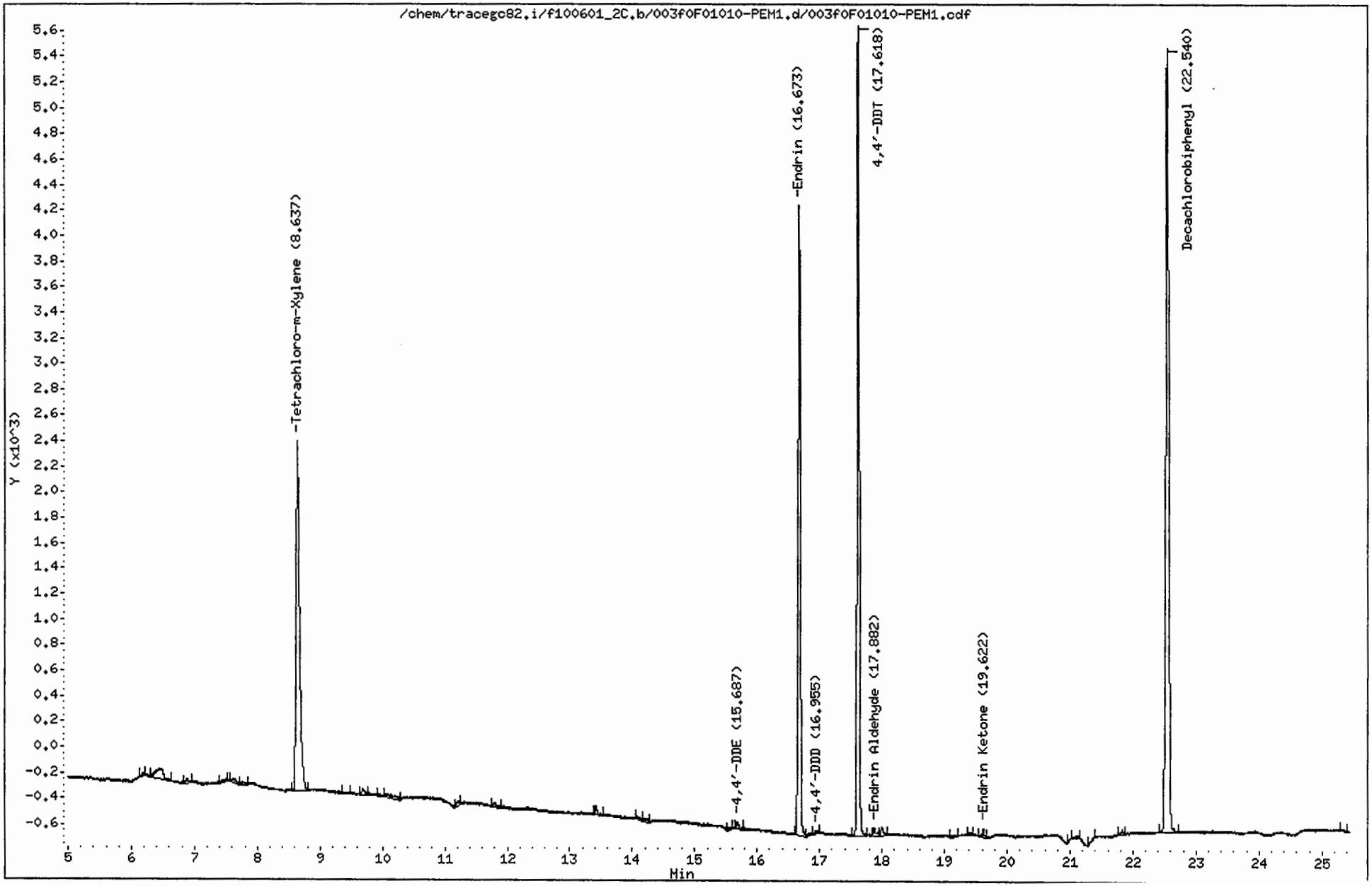
Sample Info: 0F01010-PEM1

Volume Injected (uL): 1.0

Operator: System

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-PEM1 Client Smp Id : PEMFA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 01-JUN-2010 16:47 Inst ID : TRACEGC82
Operator : System
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : PEMFA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.08		181								
0.37		541								
0.42		55								
1.05		84								
1.17		43								
1.36		39598								
2.62		635								
3.10		48								
3.73		76								
6.20		60								
6.43		684								
6.87		129								
7.46		106								
7.62		196								
7.76		113								
8.64	8.59 8.73	10414	548876	Tetrachloro-m-Xylene	0.018973	0.018973		95.8	43 - 135	
9.36		75								
9.68		162								
9.95		51								
10.06		281								
11.21		103								
11.80		141								
13.41		207								
14.09		99								
14.23		123								
15.55		60								
15.69	15.61 15.75	150	617325	4,4'-DDE	0.000242	0.000242	0.020000			J
16.67	16.60 16.74	11937	524785	Endrin	0.022746	0.022746	0.020000			
16.83		100								
16.96	16.87 17.01	71	454222	4,4'-DDD	0.000157	0.000157	0.020000			J
17.62	17.55 17.69	14640	503765	4,4'-DDT	0.029061	0.029061	0.020000			
17.88	17.81 17.95	206	425754	Endrin Aldehyde	0.000485	0.000485	0.020000			J
18.00		198								
19.13		88								
19.39		46								
19.62	19.55 19.69	176	535815	Endrin Ketone	0.000329	0.000329	0.020000			J
21.02		47								

CompuChem

Lab Smp Id : 0F01010-PEM1 Client Smp Id : PEMFA
Sample Type : SAMPLE Sublist : PEM
Inj Date : 01-JUN-2010 16:47 Inst ID :
Operator : System
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : PEMFA

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
21.08		95								
21.38		48								
21.82		92								
22.54	22.47 22.61	19788	497254	Decachlorobiphenyl	0.039794	0.039794		100.5	43 - 144	
25.32		58								

Data File: /chem/tracegc82.i/f100601_2C.b/004f0F01010-CAL1.d

Page 1

Date : 01-JUN-2010 17:16

Client ID: INDC1FA

Instrument: tracegc82.i

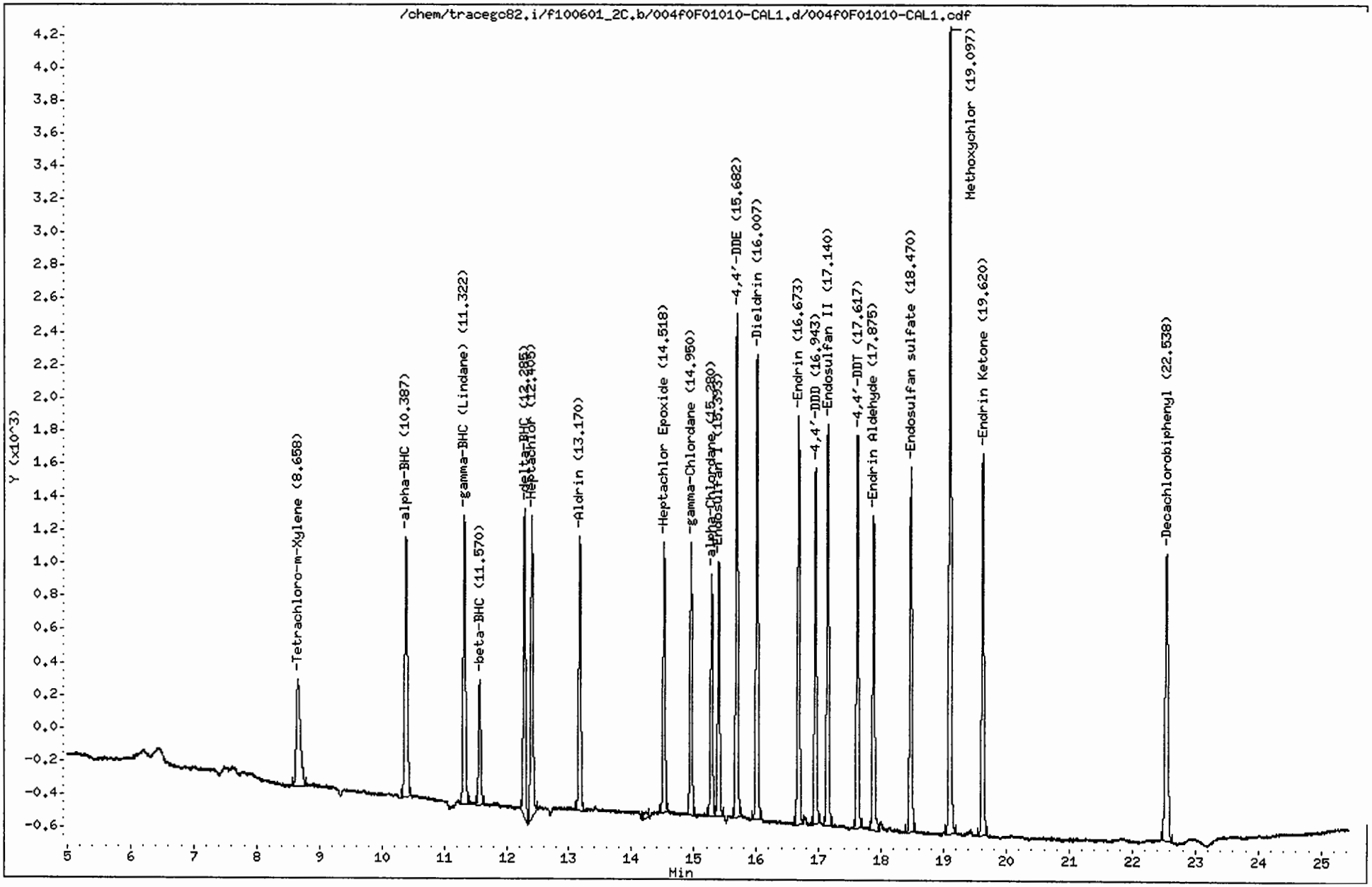
Sample Info: 0F01010-CAL1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL1 Client Smp Id : INDC1FA
Sample Type : INITIAL CAL: Level 1 Sublist : INDA
Inj Date : 01-JUN-2010 17:16 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : INDC1FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
0.06			130					
1.30			183					
1.35			575					
1.51			237309					
8.66	8.58	8.72	2927	548876	Tetrachloro-m-Xylene	0.005000	585400	
10.39	10.32	10.46	4721	916452	alpha-BHC	0.005000	944200	
11.32	11.25	11.39	4497	866882	gamma-BHC (Lindane)	0.005000	899200	
11.57	11.50	11.64	1840	347428	beta-BHC	0.005000	367800	
12.28	12.22	12.36	4378	827595	delta-BHC	0.005000	875600	
12.40	12.33	12.47	4655	778205	Heptachlor	0.005500	846364	
13.17	13.10	13.24	3982	726628	Aldrin	0.005000	796200	
14.22			127					
14.52	14.45	14.59	3756	683115	Heptachlor Epoxide	0.005000	751000	
14.95	14.88	15.02	3797	690205	gamma-Chlordane	0.005000	759400	
15.28	15.21	15.35	3310	595455	alpha-Chlordane	0.005000	661800	
15.39	15.32	15.46	3590	638725	Endosulfan I	0.005000	718000	
15.68	15.61	15.75	6708	617325	4,4'-DDE	0.010000	670700	
16.01	15.94	16.08	6485	598394	Dieldrin	0.010000	648500	
16.67	16.60	16.74	5776	524785	Endrin	0.010000	577600	
16.94	16.88	17.02	4783	454222	4,4'-DDD	0.010000	478200	
17.14	17.07	17.21	5677	526756	Endosulfan II	0.010000	567700	
17.62	17.55	17.69	5327	503765	4,4'-DDT	0.010000	532700	
17.88	17.80	17.94	4609	425754	Endrin Aldehyde	0.010000	460900	
18.47	18.40	18.54	5186	479624	Endosulfan sulfate	0.010000	518600	
19.10	19.03	19.17	11409	208391	Methoxychlor	0.050000	228160	
19.62	19.55	19.69	5625	535815	Endrin Ketone	0.010000	562500	
22.54	22.47	22.61	5516	497254	Decachlorobiphenyl	0.010000	551500	

6/2/10

Data File: /chem/tracegc82.i/f100601_2C.b/005f0F01010-CAL2.d

Page 1

Date : 01-JUN-2010 17:45

Client ID: INDC2FA

Instrument: tracegc82.i

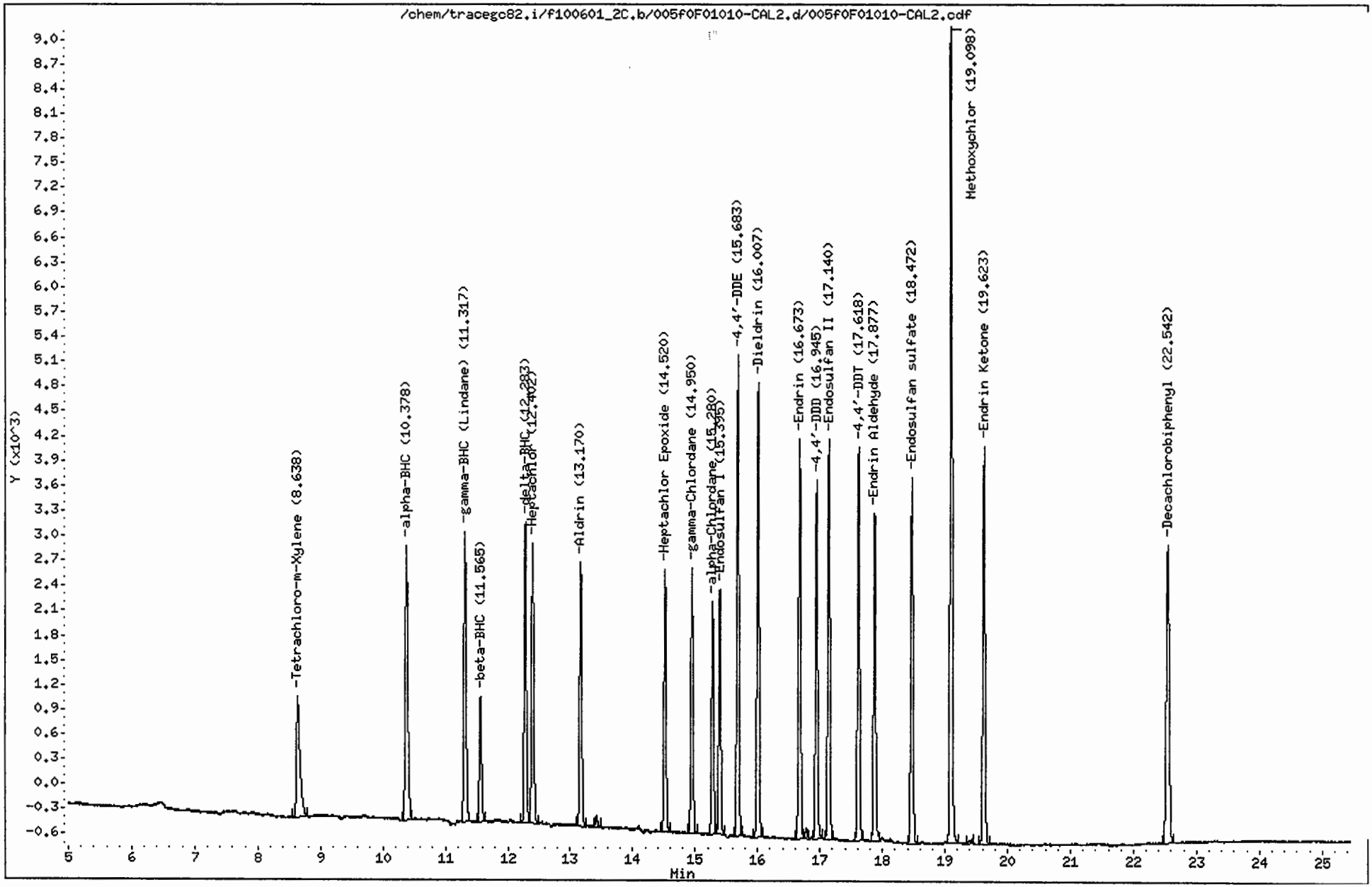
Sample Info: 0F01010-CAL2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL2 Client Smp Id : INDC2FA
Sample Type : INITIAL CAL: Level 2 Sublist : INDA
Inj Date : 01-JUN-2010 17:45 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : INDC2FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.33			1025					
1.36			39937					
1.76			12747					
1.94			15537					
8.64	8.58	8.72	5717	548876	Tetrachloro-m-Xylene	0.010000	571700	
10.38	10.32	10.46	9330	916452	alpha-BHC	0.010000	933000	
11.32	11.25	11.39	8783	866882	gamma-BHC (Lindane)	0.010000	878200	
11.56	11.50	11.64	3659	347428	beta-BHC	0.010000	365900	
12.28	12.22	12.36	8355	827595	delta-BHC	0.010000	835500	
12.40	12.33	12.47	8208	778205	Heptachlor	0.010000	820800	
13.17	13.10	13.24	7654	726628	Aldrin	0.010000	765400	
13.42			289					
14.52	14.45	14.59	7298	683115	Heptachlor Epoxide	0.010000	729800	
14.95	14.88	15.02	7401	690205	gamma-Chlordane	0.010000	740100	
15.28	15.21	15.35	6378	595455	alpha-Chlordane	0.010000	637800	
15.40	15.32	15.46	6867	638725	Endosulfan I	0.010000	686700	
15.68	15.61	15.75	12915	617325	4,4'-DDE	0.020000	645750	
16.01	15.94	16.08	12755	598394	Dieldrin	0.020000	637750	
16.67	16.60	16.74	11432	524785	Endrin	0.020000	571600	
16.78			275					
16.94	16.88	17.02	9651	454222	4,4'-DDD	0.020000	482500	
17.14	17.07	17.21	11424	526756	Endosulfan II	0.020000	571150	
17.62	17.55	17.69	10748	503765	4,4'-DDT	0.020000	537350	
17.88	17.80	17.94	9406	425754	Endrin Aldehyde	0.020000	470250	
18.47	18.40	18.54	10648	479624	Endosulfan sulfate	0.020000	532400	
19.10	19.03	19.17	23137	208391	Methoxychlor	0.100000	231360	
19.39			159					
19.62	19.55	19.69	11856	535815	Endrin Ketone	0.020000	592750	
22.54	22.47	22.61	11550	497254	Decachlorobiphenyl	0.020000	577450	

6/2/10

Data File: /chem/tracegc82.i/f100601_2C.b/006f0F01010-CAL3.d

Date : 01-JUN-2010 18:14

Client ID: INDC3FA

Sample Info: 0F01010-CAL3

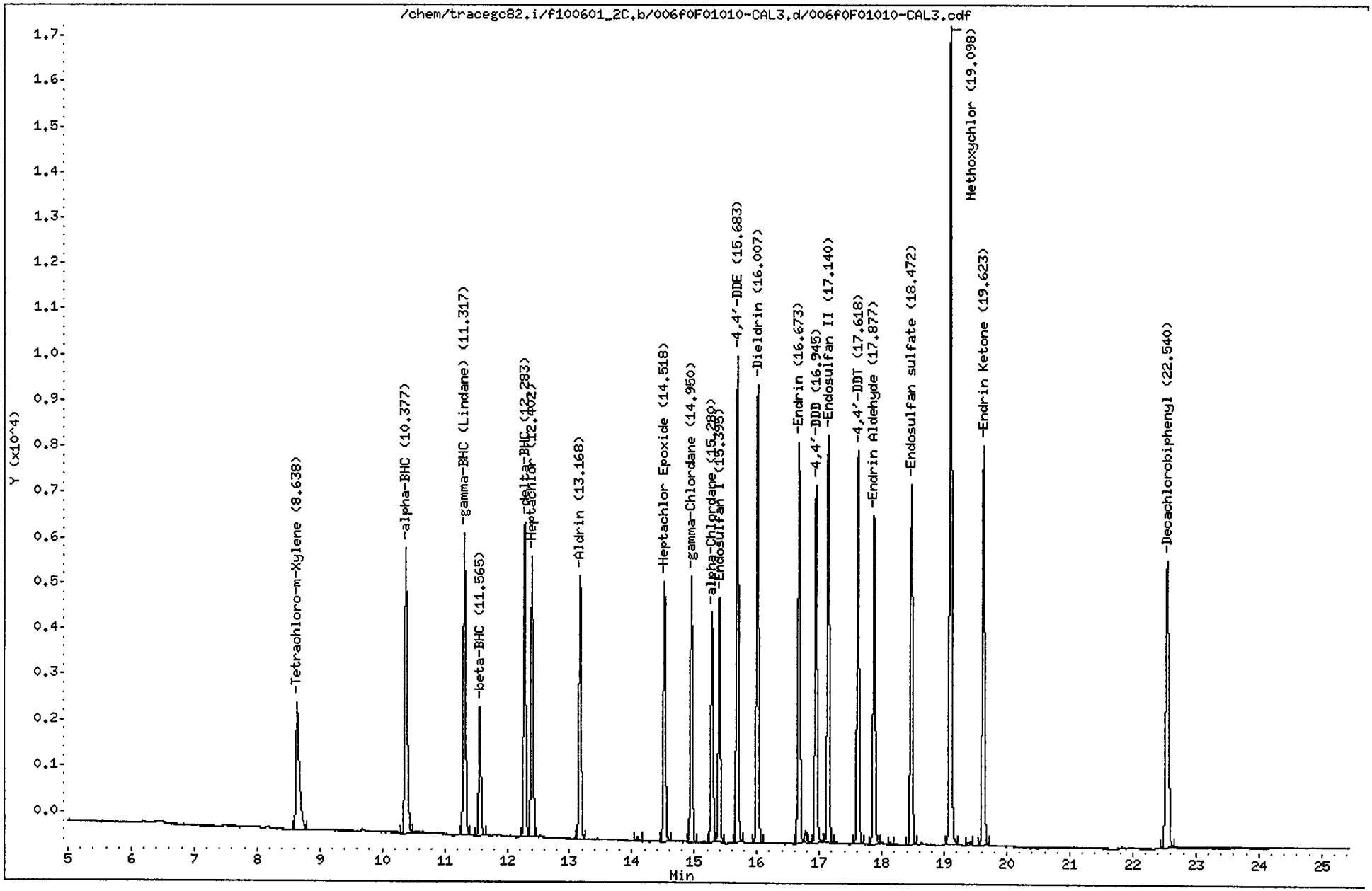
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL3 Client Smp Id : INDC3FA
Sample Type : INITIAL CAL: Level 3 Sublist : INDA
Inj Date : 01-JUN-2010 18:14 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.34			853					
1.36			42966					
1.76			13331					
1.95			16834					
2.64			413					
8.64	8.58	8.72	10510	548876	Tetrachloro-m-Xylene	0.020000	525450	
10.38	10.32	10.46	17417	916452	alpha-BHC	0.020000	870800	
11.32	11.25	11.39	16506	866882	gamma-BHC (Lindane)	0.020000	825300	
11.56	11.50	11.64	6748	347428	beta-BHC	0.020000	337350	
12.28	12.22	12.36	15689	827595	delta-BHC	0.020000	784450	
12.40	12.33	12.47	14910	778205	Heptachlor	0.020000	745450	
13.17	13.10	13.24	13897	726628	Aldrin	0.020000	694850	
14.09			204					
14.52	14.45	14.59	13242	683115	Heptachlor Epoxide	0.020000	662050	
14.95	14.88	15.02	13319	690205	gamma-Chlordane	0.020000	665950	
15.28	15.21	15.35	11497	595455	alpha-Chlordane	0.020000	574850	
15.40	15.32	15.46	12392	638725	Endosulfan I	0.020000	619550	
15.68	15.61	15.75	23516	617325	4,4'-DDE	0.040000	587900	
16.01	15.94	16.08	23212	598394	Dieldrin	0.040000	580275	
16.67	16.60	16.74	20625	524785	Endrin	0.040000	515625	
16.78			556					
16.94	16.88	17.02	17717	454222	4,4'-DDD	0.040000	442925	
17.14	17.07	17.21	20915	526756	Endosulfan II	0.040000	522875	
17.62	17.55	17.69	19611	503765	4,4'-DDT	0.040000	490275	
17.88	17.80	17.94	17308	425754	Endrin Aldehyde	0.040000	432675	
18.13			138					
18.47	18.40	18.54	19117	479624	Endosulfan sulfate	0.040000	477925	
19.10	19.03	19.17	41394	208391	Methoxychlor	0.200000	206965	
19.38			304					
19.62	19.55	19.69	21541	535815	Endrin Ketone	0.040000	538525	
22.54	22.47	22.61	20374	497254	Decachlorobiphenyl	0.040000	509350	

Data File: /chem/tracegc82.i/f100601_2C.b/007f0F01010-CAL4.d

Date : 01-JUN-2010 18:43

Client ID: INDC4FA

Instrument: tracegc82.i

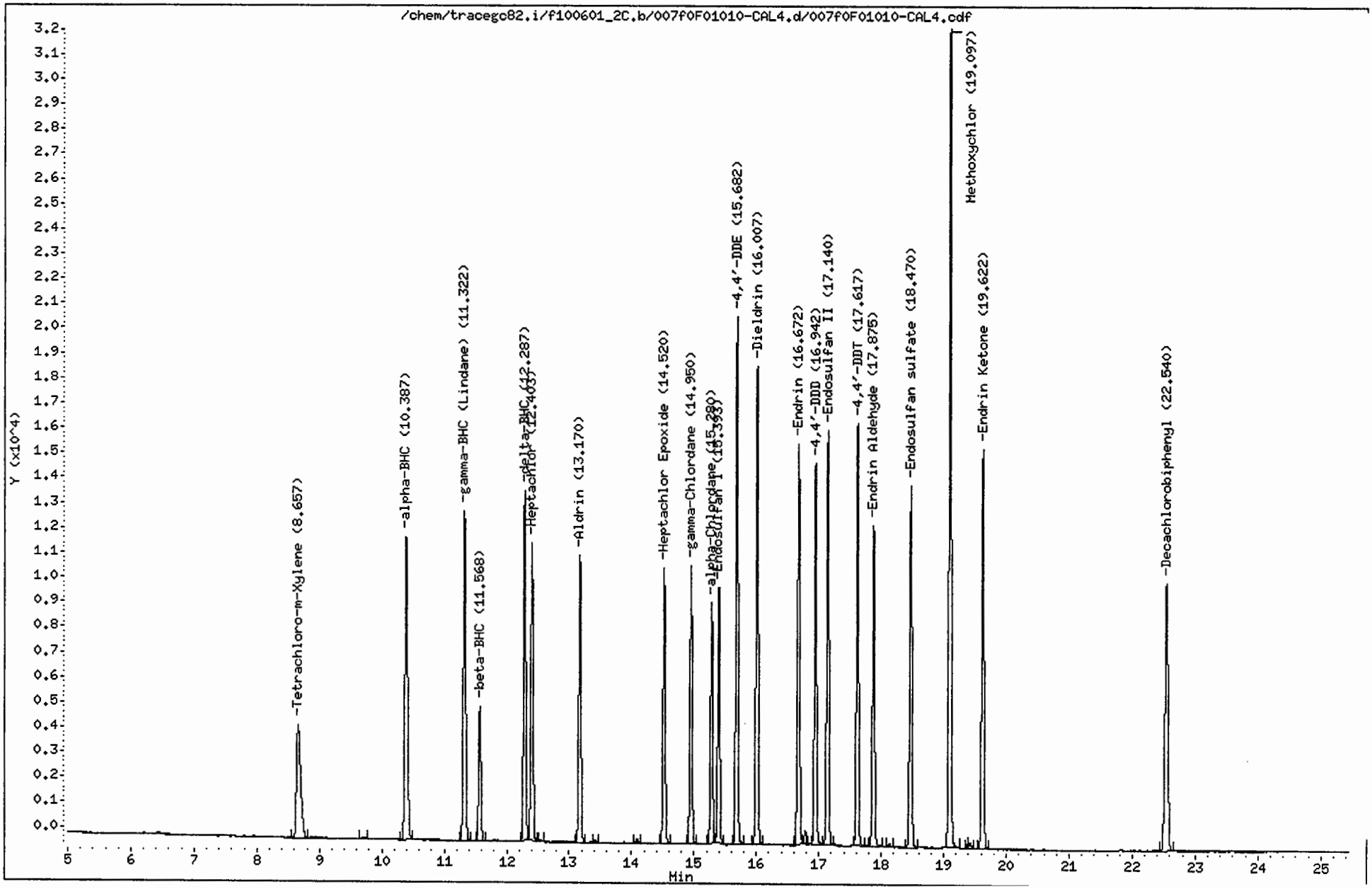
Sample Info: 0F01010-CAL4

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL4 Client Smp Id : INDC4FA
Sample Type : INITIAL CAL: Level 4 Sublist : INDA
Inj Date : 01-JUN-2010 18:43 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : INDC4FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.35			400					
1.49			68742					
2.65			305					
8.66	8.58	8.72	21289	548876	Tetrachloro-m-Xylene	0.040000	532200	
9.70			284					
10.39	10.32	10.46	36041	916452	alpha-BHC	0.040000	901025	
11.32	11.25	11.39	34087	866882	gamma-BHC (Lindane)	0.040000	852175	
11.57	11.50	11.64	13386	347428	beta-BHC	0.040000	334625	
12.29	12.22	12.36	32147	827595	delta-BHC	0.040000	803675	
12.40	12.33	12.47	29628	778205	Heptachlor	0.040000	740675	
12.54			158					
13.17	13.10	13.24	27601	726628	Aldrin	0.040000	690025	
13.42			180					
14.09			359					
14.52	14.45	14.59	25730	683115	Heptachlor Epoxide	0.040000	643250	
14.95	14.88	15.02	25844	690205	gamma-Chlordane	0.040000	646075	
15.28	15.21	15.35	22287	595455	alpha-Chlordane	0.040000	557175	
15.39	15.32	15.46	23705	638725	Endosulfan I	0.040000	592625	
15.68	15.61	15.75	46840	617325	4,4'-DDE	0.080000	585500	
16.01	15.94	16.08	44897	598394	Dieldrin	0.080000	561200	
16.67	16.60	16.74	38600	524785	Endrin	0.080000	482487	
16.78			1103					
16.94	16.88	17.02	34447	454222	4,4'-DDD	0.080000	430575	
17.14	17.07	17.21	39018	526756	Endosulfan II	0.080000	487713	
17.62	17.55	17.69	37999	503765	4,4'-DDT	0.080000	474987	
17.88	17.80	17.94	30912	425754	Endrin Aldehyde	0.080000	386400	
18.14			256					
18.47	18.40	18.54	35055	479624	Endosulfan sulfate	0.080000	438187	
19.10	19.03	19.17	75439	208391	Methoxychlor	0.400000	188595	
19.38			299					
19.43			553					
19.62	19.55	19.69	39611	535815	Endrin Ketone	0.080000	495137	
22.54	22.47	22.61	34944	497254	Decachlorobiphenyl	0.080000	436787	

6/2/10

Data File: /chem/tracegc82.i/f100601_2C.b/008f0F01010-CAL5.d

Page 1

Date : 01-JUN-2010 19:13

Client ID: INDC5FA

Instrument: tracegc82.i

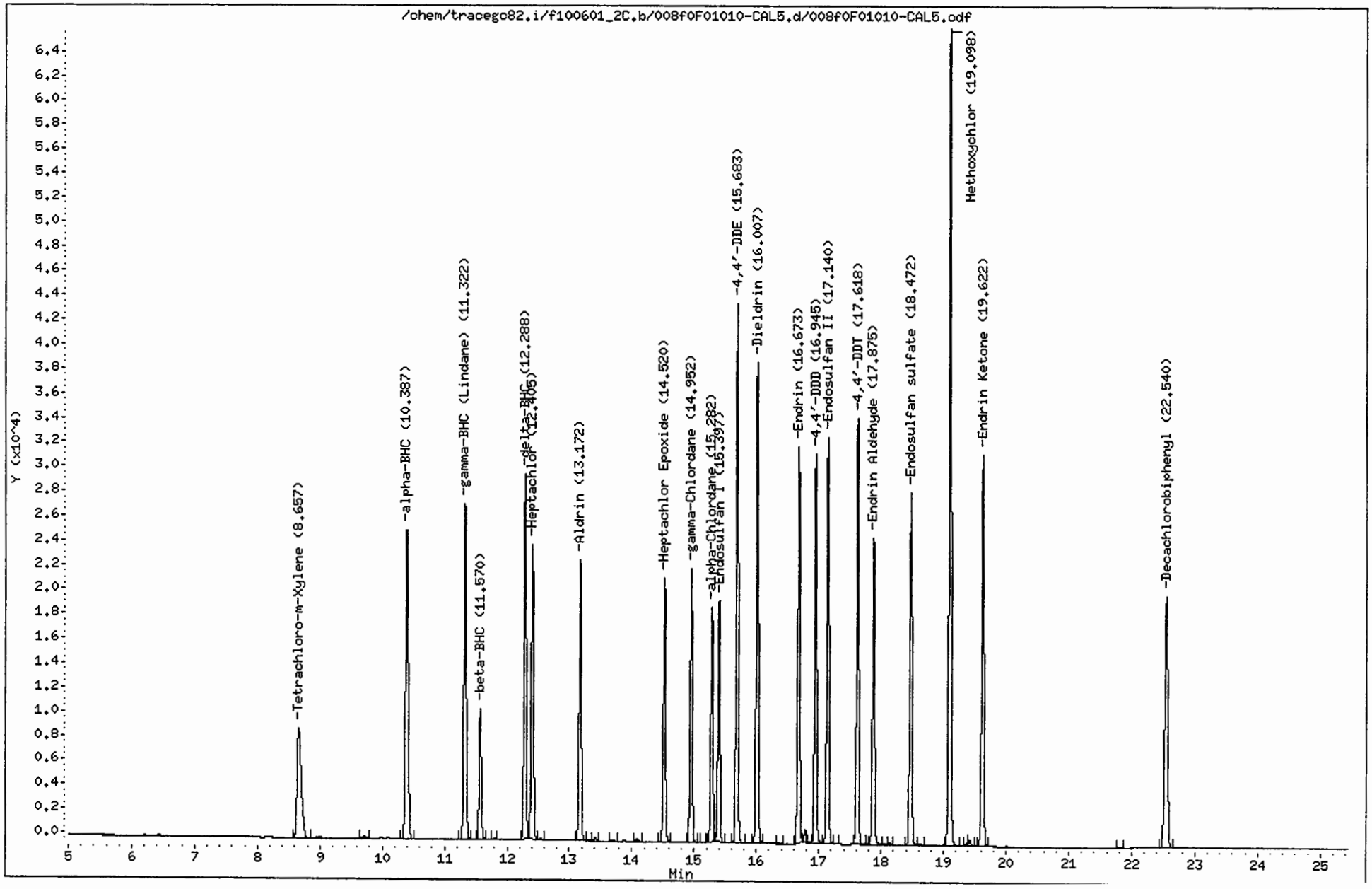
Sample Info: 0F01010-CAL5

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-CAL5 Client Smp Id : INDC5FA
Sample Type : INITIAL CAL: Level 5 Sublist : INDA
Inj Date : 01-JUN-2010 19:13 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : INDC5FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.35			382					
1.50			72033					
2.66			169					
8.66	8.58	8.72	42370	548876	Tetrachloro-m-Xylene	0.080000	529625	
9.71			635					
10.39	10.32	10.46	74660	916452	alpha-BHC	0.080000	933237	
11.32	11.25	11.39	70364	866882	gamma-BHC (Lindane)	0.080000	879537	
11.57	11.50	11.64	26517	347428	beta-BHC	0.080000	331463	
11.80			235					
12.29	12.22	12.36	67100	827595	delta-BHC	0.080000	838750	
12.40	12.33	12.47	59020	778205	Heptachlor	0.080000	737737	
12.54			322					
13.17	13.10	13.24	54933	726628	Aldrin	0.080000	686663	
13.42			608					
13.69			234					
14.10			568					
14.52	14.45	14.59	50358	683115	Heptachlor Epoxide	0.080000	629475	
14.95	14.88	15.02	51161	690205	gamma-Chlordane	0.080000	639500	
15.16			152					
15.28	15.21	15.35	43653	595455	alpha-Chlordane	0.080000	545650	
15.40	15.32	15.46	46140	638725	Endosulfan I	0.080000	576750	
15.68	15.61	15.75	95485	617325	4,4'-DDE	0.160000	596775	
16.01	15.94	16.08	90279	598394	Dieldrin	0.160000	564244	
16.37			189					
16.67	16.60	16.74	76258	524785	Endrin	0.160000	476613	
16.78			2234					
16.86			199					
16.94	16.88	17.02	69906	454222	4,4'-DDD	0.160000	436913	
17.14	17.07	17.21	77495	526756	Endosulfan II	0.160000	484344	
17.27			150					
17.62	17.55	17.69	77362	503765	4,4'-DDT	0.160000	483513	
17.88	17.80	17.94	60568	425754	Endrin Aldehyde	0.160000	378544	
18.06			209					
18.13			619					
18.47	18.40	18.54	68961	479624	Endosulfan sulfate	0.160000	431006	
18.63			165					
19.10	19.03	19.17	149501	208391	Methoxychlor	0.800000	186875	
19.38			581					
19.42			1054					
19.62	19.55	19.69	78427	535815	Endrin Ketone	0.160000	490163	
21.82			236					
22.54	22.47	22.61	65790	497254	Decachlorobiphenyl	0.160000	411181	

6/2/10

Data File: /chem/tracegc82.i/f100601_2C.b/009f0F01010-ARC1.d

Page 1

Date : 01-JUN-2010 19:42

Client ID: TOXAPH3FA

Instrument: tracegc82.i

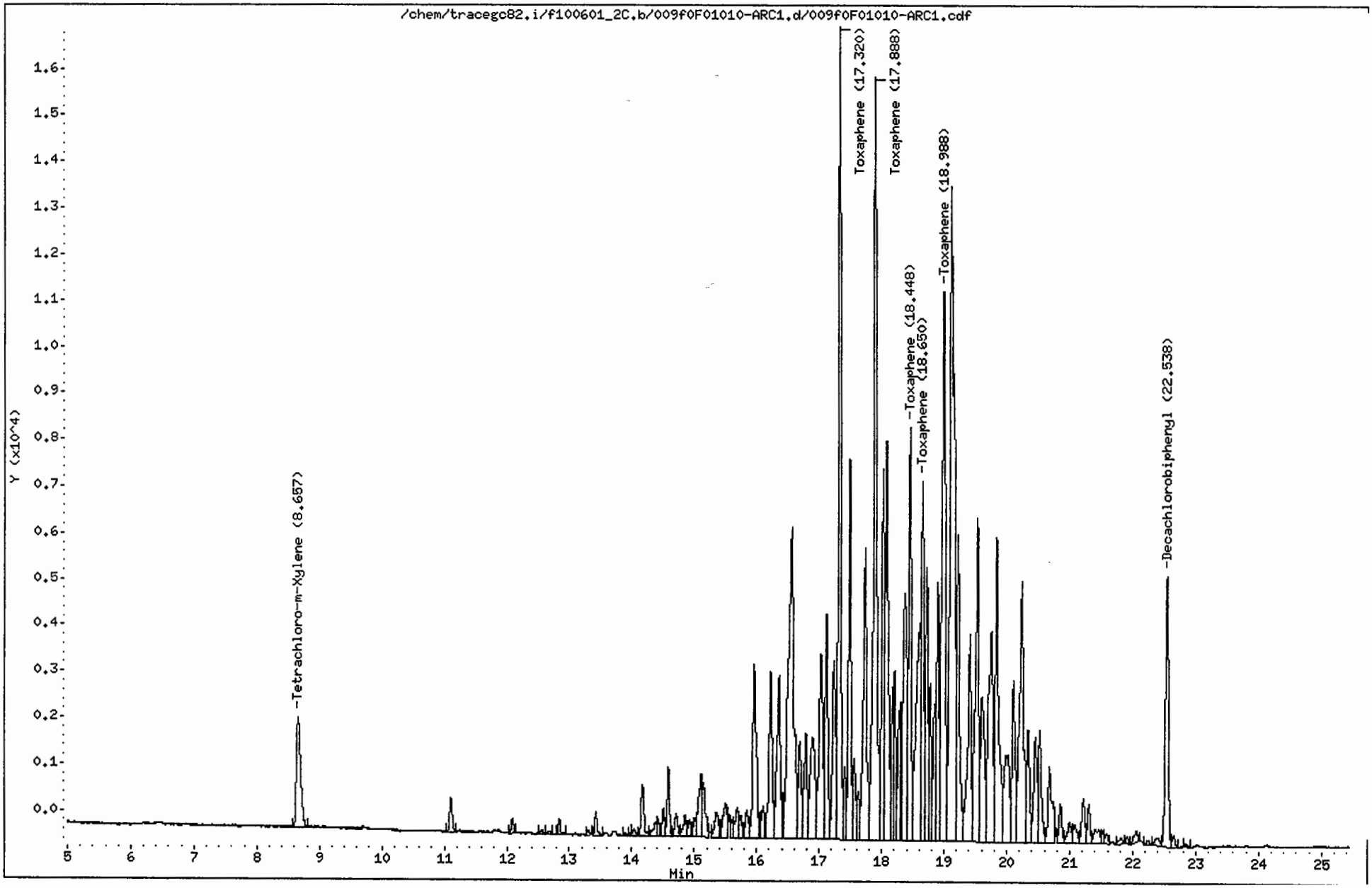
Sample Info: 0F01010-ARC1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

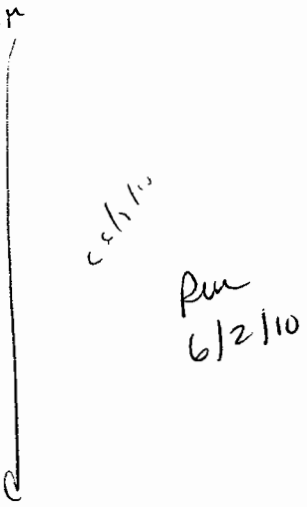
Lab Smp Id : 0F01010-ARC1 Client Smp Id : TOXAPH3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 01-JUN-2010 19:42 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.35			413					
1.50			67818					
2.60			168					
8.66	8.58	8.72	11058	548876	Tetrachloro-m-Xylene	0.020000	525450	
11.10			2136					
12.09			783					
12.56			245					
12.67			259					
12.84			782					
13.30			243					
13.43			1241					
13.90			134					
13.98			127					
14.03			422					
14.17			3522					
14.38			1130					
14.43			931					
14.50			1681					
14.59			3752					
14.71			1686					
14.85			1677					
14.93			1017					
15.01			1114					
15.11			5652					
15.15			3637					
15.36			2412					
15.50			3000					
15.61			913					
15.69			2408					
15.74			1317					
15.84			2085					
15.96			14755					
16.05			771					
16.10			1970					
16.22			13236					
16.36			13310					
16.41			2174					
16.55			41013					
16.68			7173					
16.79			8363					
16.89			12641					
17.02			17026					

CompuChem

Lab Smp Id : 0F01010-ARC1 Client Smp Id : TOXAPH3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 01-JUN-2010 19:42 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3FA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
17.11		15772					
17.23		13221					
17.32	17.25 17.39	48195	24097	Toxaphene Peak 1	2.000000	24097	
17.41		4033					
17.48		22539					
17.56		5678					
17.63		2652					
17.73		24167					
17.89	17.82 17.96	58764	29382	Toxaphene Peak 2	2.000000	29381	
18.02		21958					
18.07		29607					
18.18		7156					
18.20		9785					
18.29		6268					
18.31		6485					
18.36		21693					
18.45	18.38 18.52	25900	12950	Toxaphene Peak 3	2.000000	12950	
18.60		23048					
18.65	18.58 18.72	22153	11076	Toxaphene Peak 4	2.000000	11077	
18.72		16411					
18.77		8748					
18.84		7576					
18.89		15094					
18.99	18.92 19.06	47239	23620	Toxaphene Peak 5	2.000000	23619	
19.11		67795					
19.22		21833					
19.41		16979					
19.53		25007					
19.60		14342					
19.75		23390					
19.84		24539					
19.98		11693					
20.10		12464					
20.23		25484					
20.34		8521					
20.45		7990					
20.52		8339					
20.68		7451					
20.86		2702					
21.00		1875					
21.08		1867					
21.21		3534					

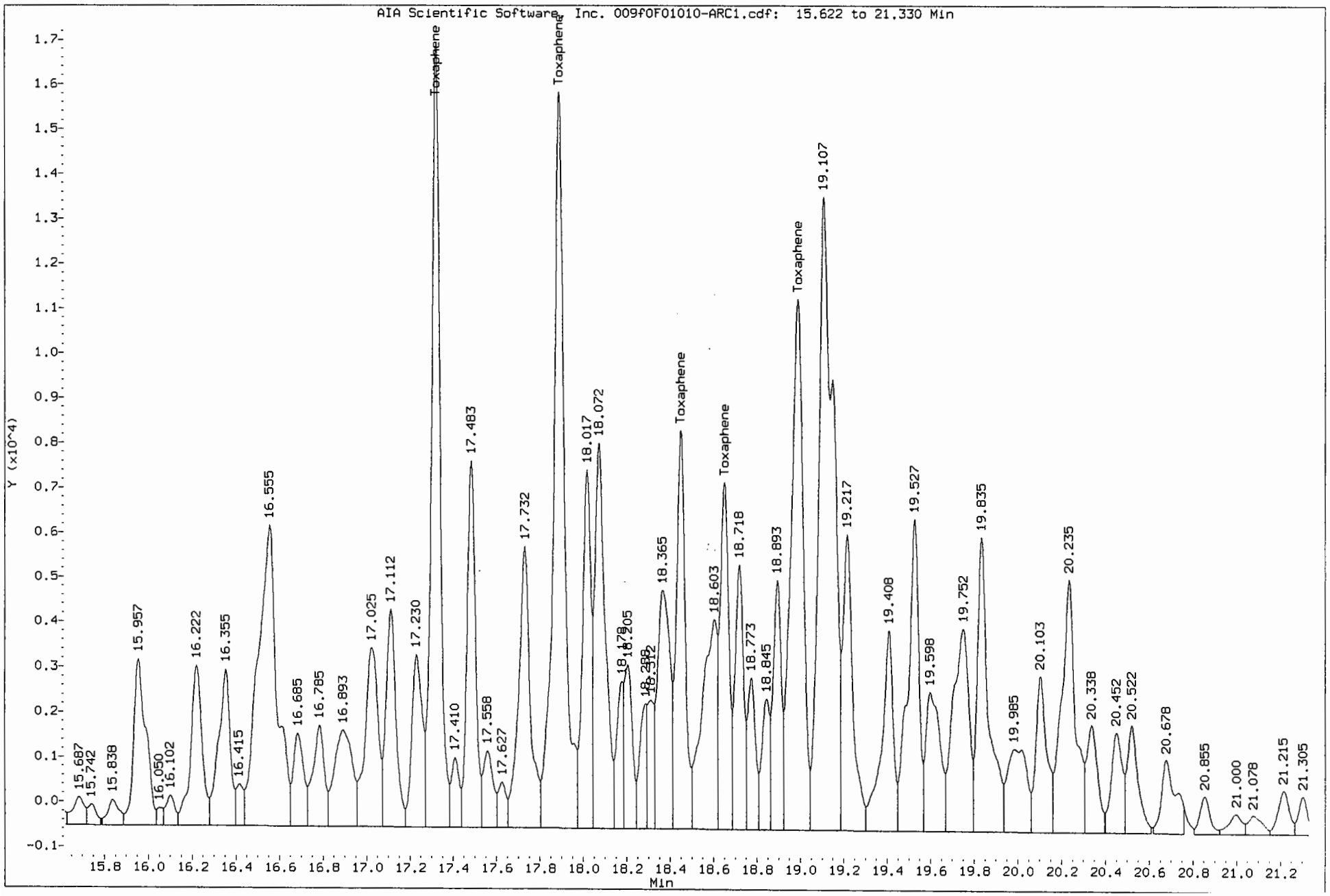


CompuChem

Lab Smp Id : 0F01010-ARC1 Client Smp Id : TOXAPH3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TOXAPH
Inj Date : 01-JUN-2010 19:42 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : TOXAPH3FA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
21.30		2459					
21.41		2004					
21.52		765					
21.59		707					
21.82		489					
21.91		413					
22.06		1035					
22.24		295					
22.40		876					
22.54	22.47 22.61	19384	497254	Decachlorobiphenyl	0.040000	509350	
22.65		769					
22.85		201					

Data File: /chem/tracegc82.i/f100601_2C.b/009f0F01010-ARC1.d/009f0F01010-ARC1.cdf
Injection Date: 01-JUN-2010 19:42
Instrument: tracegc82.i
Client Sample ID: TOXAPH3FA



Data File: /chem/tracegc82.i/f100601_2C.b/010f0F01010-ARC2.d

Page 1

Date : 01-JUN-2010 20:11

Client ID: CHLORO3FA

Instrument: tracegc82.i

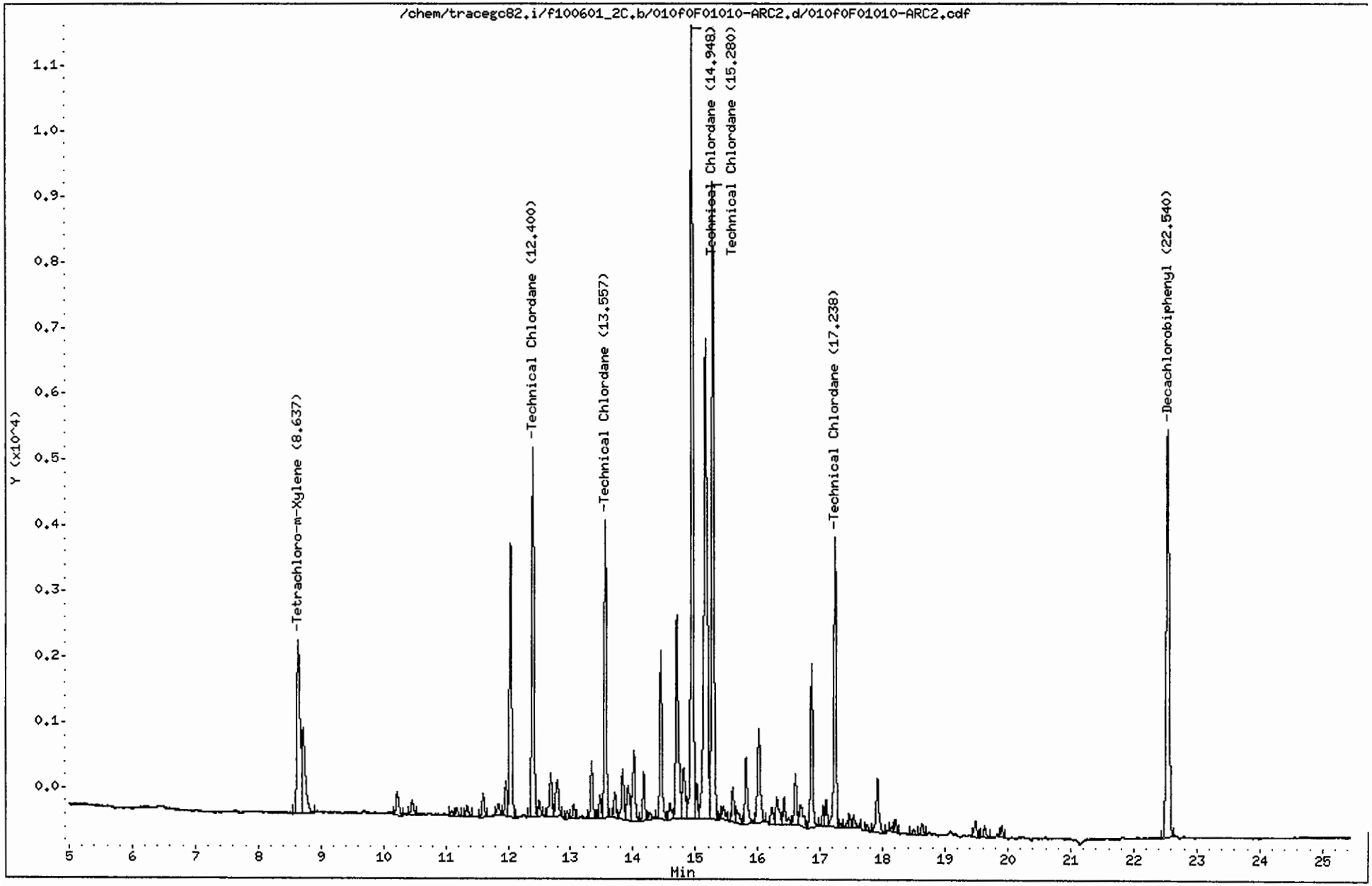
Sample Info: 0F01010-ARC2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-ARC2 Client Smp Id : CHLORO3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 01-JUN-2010 20:11 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3FA

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
1.33			355					
1.36			17960					
1.94			1315					
2.60			212					
8.64	8.58	8.72	9170	548876	Tetrachloro-m-Xylene	0.020000	525450	
8.71			5046					
10.22			1053					
10.46			618					
11.10			168					
11.17			311					
11.34			456					
11.60			941					
11.84			497					
11.96			1312					
12.04			10517					
12.40	12.33	12.47	13815	34535	TechnicalChlordane Peak 1	0.400000	34535	
12.49			588					
12.69			1925					
12.79			1890					
12.95			232					
13.05			491					
13.34			2121					
13.47			744					
13.56	13.49	13.63	10682	26705	TechnicalChlordane Peak 2	0.400000	26705	
13.71			955					
13.84			2005					
13.92			1742					
14.02			3361					
14.17			1670					
14.27			347					
14.45			6300					
14.59			757					
14.70			9253					
14.81			2662					
14.95	14.88	15.02	29262	73155	TechnicalChlordane Peak 3	0.400000	73155	
15.02			1191					
15.16			26649					
15.28	15.21	15.35	24352	60880	TechnicalChlordane Peak 4	0.400000	60880	
15.40			174					
15.45			649					
15.60			1252					
15.66			778					

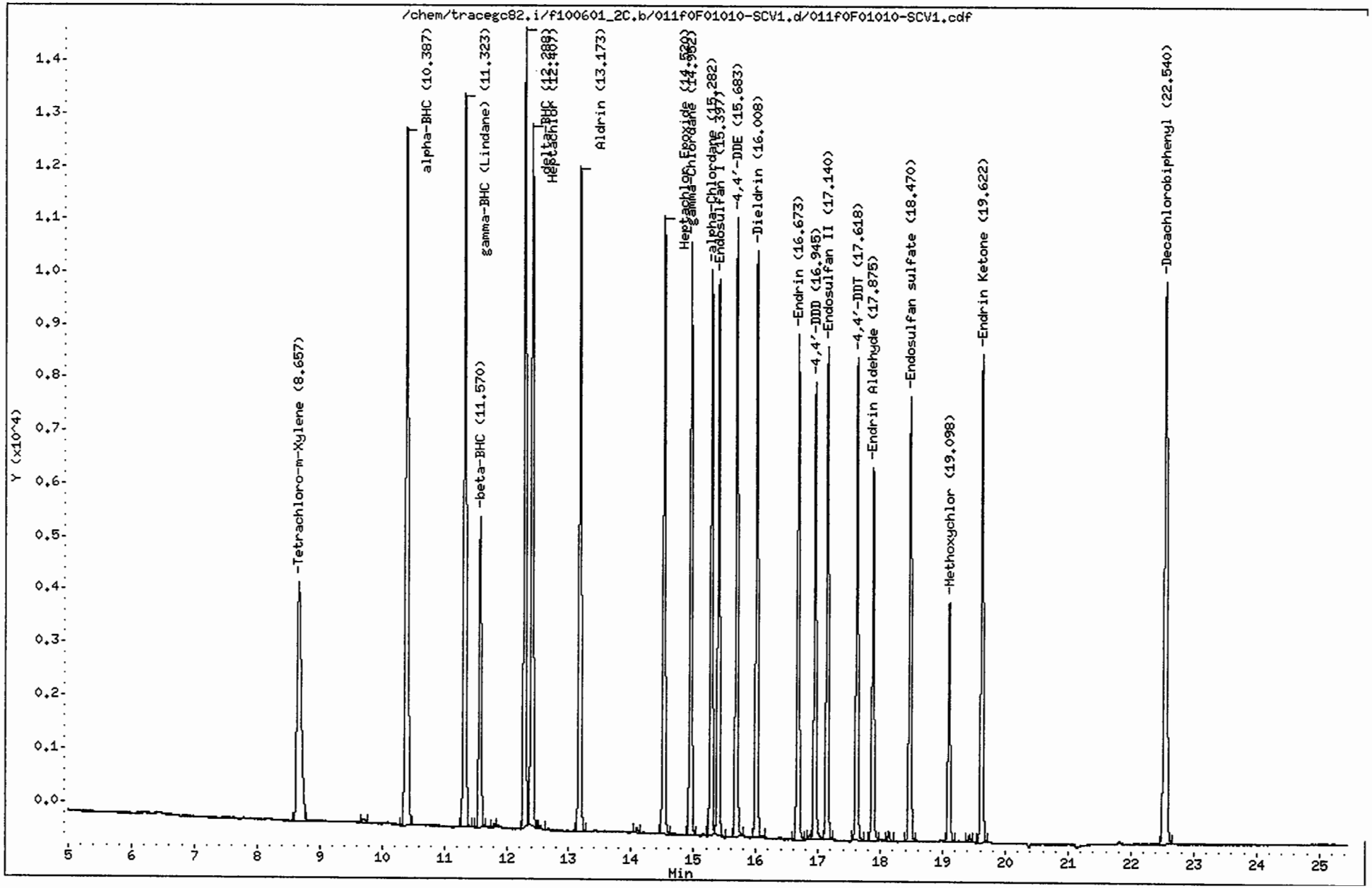
CompuChem

Lab Smp Id : 0F01010-ARC2 Client Smp Id : CHLORO3FA
Sample Type : INITIAL CAL: Level 3 Sublist : TechChlor
Inj Date : 01-JUN-2010 20:11 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : CHLORO3FA

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	RF	FLAGS
15.81		2858					
16.02		4508					
16.22		754					
16.30		1502					
16.42		1243					
16.60		2057					
16.68		1432					
16.86		6301					
17.05		691					
17.09		945					
17.24	17.17 17.31	11101	27752	TechnicalChlordane Peak 5	0.400000	27753	
17.33		162					
17.43		246					
17.47		414					
17.54		587					
17.75		298					
17.92		2599					
18.15		151					
18.20		486					
18.50		230					
18.63		455					
19.49		684					
19.63		438					
19.91		407					
22.54	22.47 22.61	19935	497254	Decachlorobiphenyl	0.040000	509350	

Data File: /chem/tracegc82.i/f100601_2C.b/011f0F01010-SCV1.d
Date : 01-JUN-2010 20:40
Client ID: PESTCHKFA
Sample Info: 0F01010-SCV1
Volume Injected (uL): 1.0
Column phase: clpest2

Instrument: tracegc82.i
Operator: BWL
Column diameter: 0.32



CompuChem

Lab Smp Id : 0F01010-SCV1 Client Smp Id : PESTCHKFA
Sample Type : QCCHECK Sublist : INDA
Inj Date : 01-JUN-2010 20:40 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : INDAchek
Method : /chem/tracegc82.i/f100601_2C.b/8081A_clpest2v6.m
Misc. Info : PESTCHKFA

RT	AREA
1.35	610
1.48	53741
2.62	260
8.66	21209
9.71	284
10.39	39278
11.32	35998
11.57	14565
11.80	125
12.29	34904
12.41	33097
12.55	160
13.17	30400
14.10	220
14.52	27205
14.95	25961
15.28	24545
15.40	24824
15.68	26264
16.01	25767
16.67	22769
16.86	134
16.95	19638
17.14	22095
17.62	20589
17.87	16858
18.13	420
18.47	20270
19.10	10422
19.43	245
19.62	22630
22.54	34189

Manual Integrations							
SDG:							
Sample(s)	0F01010-ARC1						
Compound							
alpha-BHC							
gamma-BHC							
beta-BHC							
delta-BHC							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
gamma-Chlordane							
alpha-Chlordane							
Endosulfan I							
4,4'-DDE							
Dieldrin							
Endrin							
4,4'-DDD							
Endosulfan II							
4,4'-DDT							
Endrin Aldehyde							
Endosulfan sulfate							
Methoxychlor							
Endrin Ketone							
Toxaphene	x						
Technical Chordane							
Tetrachloro-m-xylene							
Decachlorbiphenyl							
"X" Denotes a manual integration for the compound							

Data File: /chem/tracegc82.i/f100601a.b/014fSEQ-CCV1.d

Date : 01-JUN-2010 22:07

Client ID: INDC3FD

Instrument: tracegc82.i

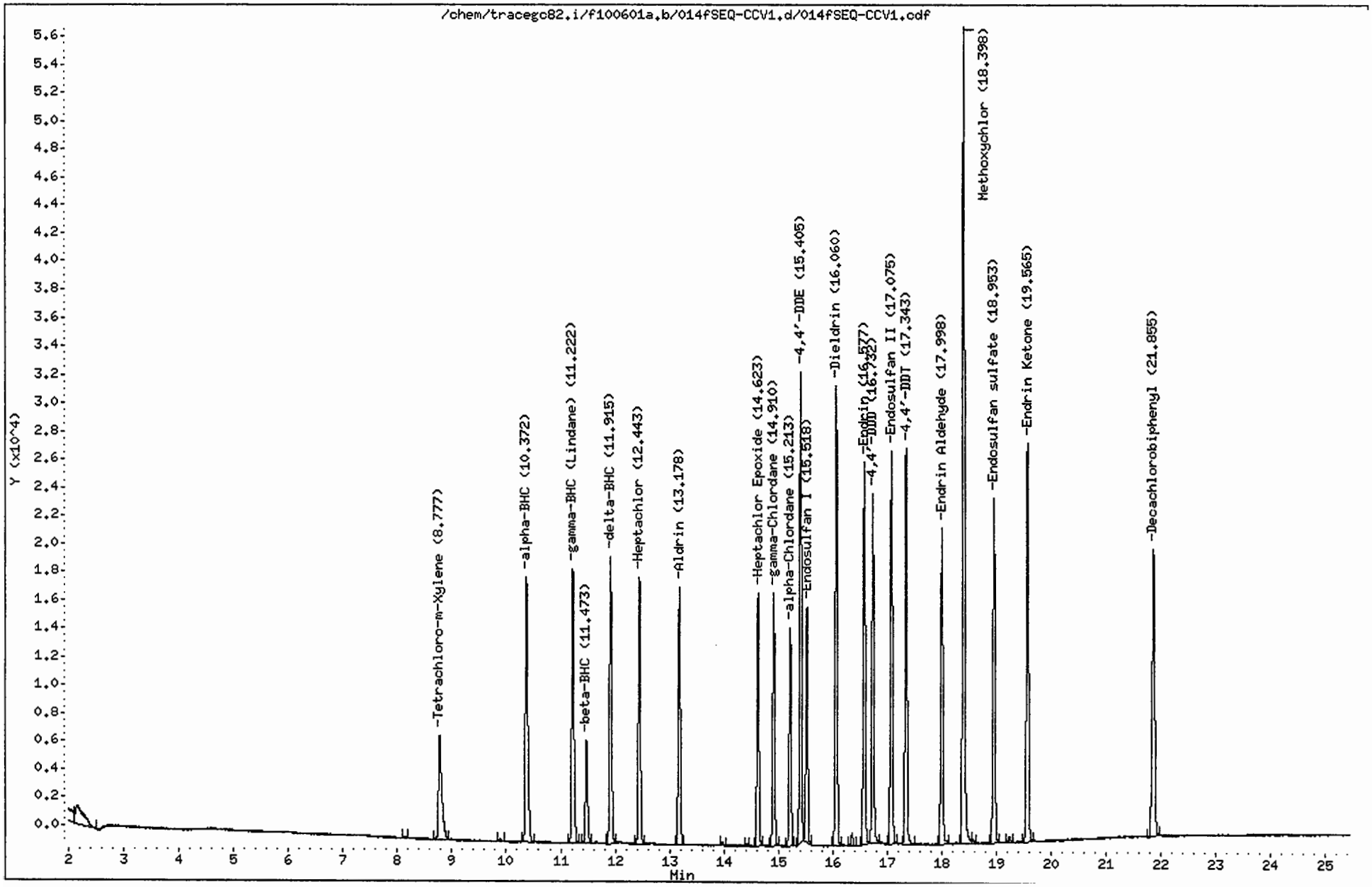
Sample Info: SEQ-CCV1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3FD
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 01-JUN-2010 22:07 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : INDC3FD

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.35			45918								
1.98			9039								
2.16			14581								
8.13			326								
8.78	8.73	8.87	30924	1587700	Tetrachloro-m-Xylene	0.020000	1546220	2.6	20.0		
9.89			668								
10.37	10.32	10.46	58351	3028788	alpha-BHC	0.020000	2917530	3.7	20.0		
11.22	11.16	11.30	54391	2817265	gamma-BHC (Lindane)	0.020000	2719535	3.5	20.0		
11.47	11.41	11.55	19778	1035150	beta-BHC	0.020000	988885	4.5	20.0		
11.92	11.85	11.99	52872	2721052	delta-BHC	0.020000	2643610	2.8	20.0		
12.44	12.38	12.52	49714	2589888	Heptachlor	0.020000	2485683	4.0	20.0		
13.18	13.11	13.25	46100	2391920	Aldrin	0.020000	2305015	3.6	20.0		
13.96			541								
14.41			317								
14.62	14.56	14.70	43310	2235460	Heptachlor Epoxide	0.020000	2165492	3.1	20.0		
14.91	14.84	14.98	43184	2245768	gamma-Chlordane	0.020000	2159205	3.9	20.0		
15.21	15.15	15.29	37445	1924148	alpha-Chlordane	0.020000	1872265	2.7	20.0		
15.40	15.34	15.48	76780	2012896	4,4'-DDE	0.040000	1919503	4.6	20.0		
15.52	15.45	15.59	39645	2067970	Endosulfan I	0.020000	1982260	4.1	20.0		
16.06	15.99	16.13	79718	2037205	Dieldrin	0.040000	1992954	2.2	20.0		
16.35			2109								
16.58	16.51	16.65	67393	1695798	Endrin	0.040000	1684814	0.6	20.0		
16.73	16.66	16.80	60364	1534440	4,4'-DDD	0.040000	1509110	1.7	20.0		
17.08	17.01	17.15	70268	1759840	Endosulfan II	0.040000	1756707	0.2	20.0		
17.34	17.27	17.41	68329	1722489	4,4'-DDT	0.040000	1708226	0.8	20.0		
18.00	17.93	18.07	56881	1371845	Endrin Aldehyde	0.040000	1422035	-3.7	20.0		
18.40	18.33	18.47	146498	731447	Methoxychlor	0.200000	732491	-0.1	20.0		
18.58			831								
18.95	18.89	19.03	62525	1574194	Endosulfan sulfate	0.040000	1563136	0.7	20.0		
19.23			985								
19.56	19.49	19.63	74537	1849761	Endrin Ketone	0.040000	1863425	-0.7	20.0		
21.86	21.79	21.93	66091	1622138	Decachlorobiphenyl	0.040000	1652282	-1.9	20.0		

Data File: /chem/tracegc82.i/f100601a.b/015fSEQ-PEM1.d

Date : 01-JUN-2010 22:36

Client ID: PEMFD

Instrument: tracegc82.i

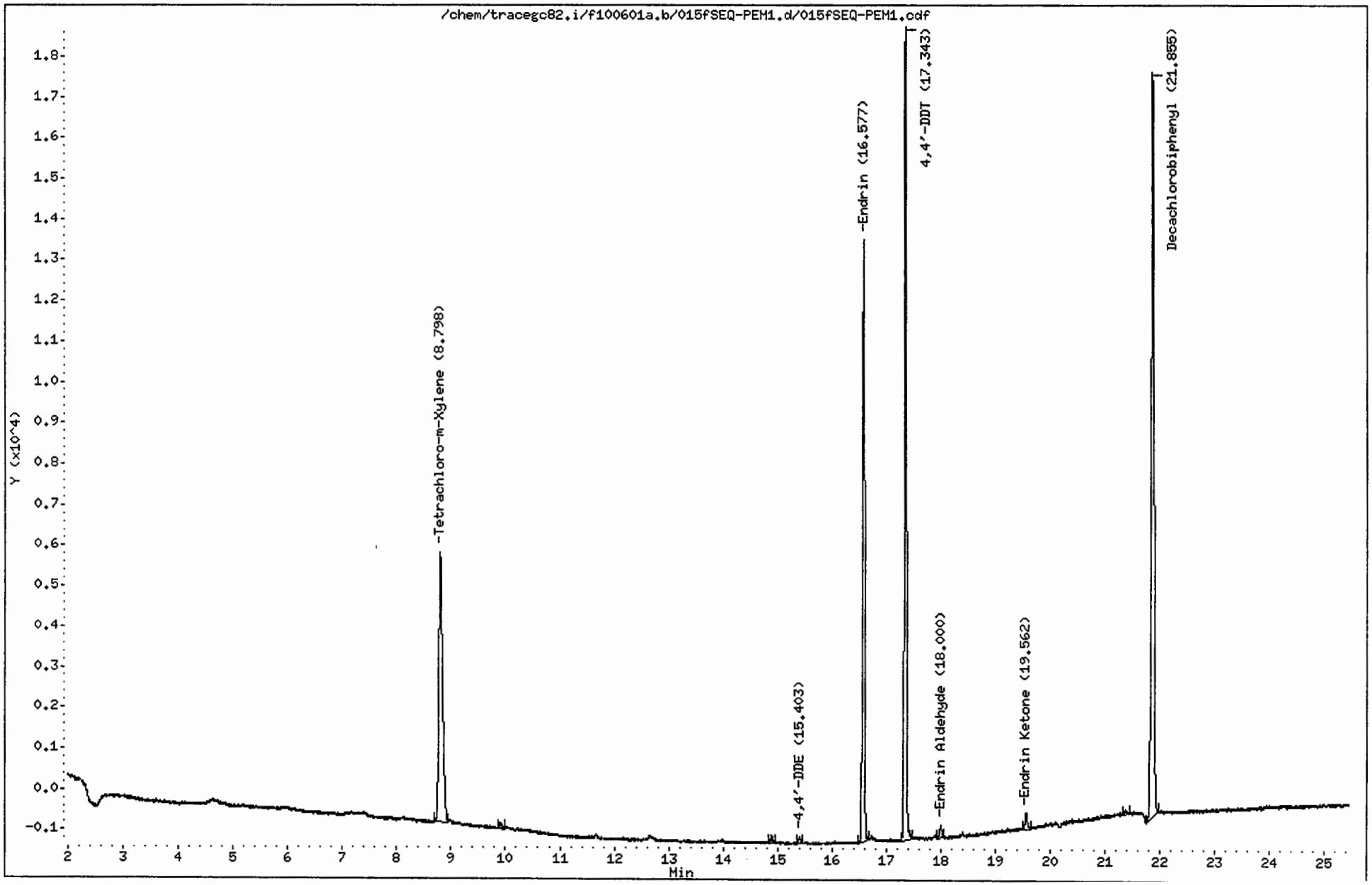
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMFD
Sample Type : SAMPLE Sublist : PEM
Inj Date : 01-JUN-2010 22:36 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PEMFD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.37			1644								
1.44			31149								
8.80	8.73	8.87	31424	1587700	Tetrachloro-m-Xylene	0.019792	0.019792		100.0	43 - 135	
9.91			474								
14.88			529								
15.40	15.34	15.48	414	2012896	4,4'-DDE	0.000206	0.000206	0.020000			J
16.58	16.51	16.65	37008	1695798	Endrin	0.021823	0.021823	0.020000			
17.34	17.27	17.41	49421	1722489	4,4'-DDT	0.028692	0.028692	0.020000			
18.00	17.93	18.07	805	1371845	Endrin Aldehyde	0.000587	0.000587	0.020000			J
19.56	19.49	19.63	1241	1849761	Endrin Ketone	0.000671	0.000671	0.020000			J
21.36			346								
21.86	21.79	21.93	60347	1622138	Decachlorobiphenyl	0.037202	0.037202		93.9	43 - 144	

Data File: /chem/tracegc82.i/f100601a_2C.b/014fSEQ-CCV1.d

Date : 01-JUN-2010 22:07

Client ID: INDC3FD

Instrument: tracegc82.i

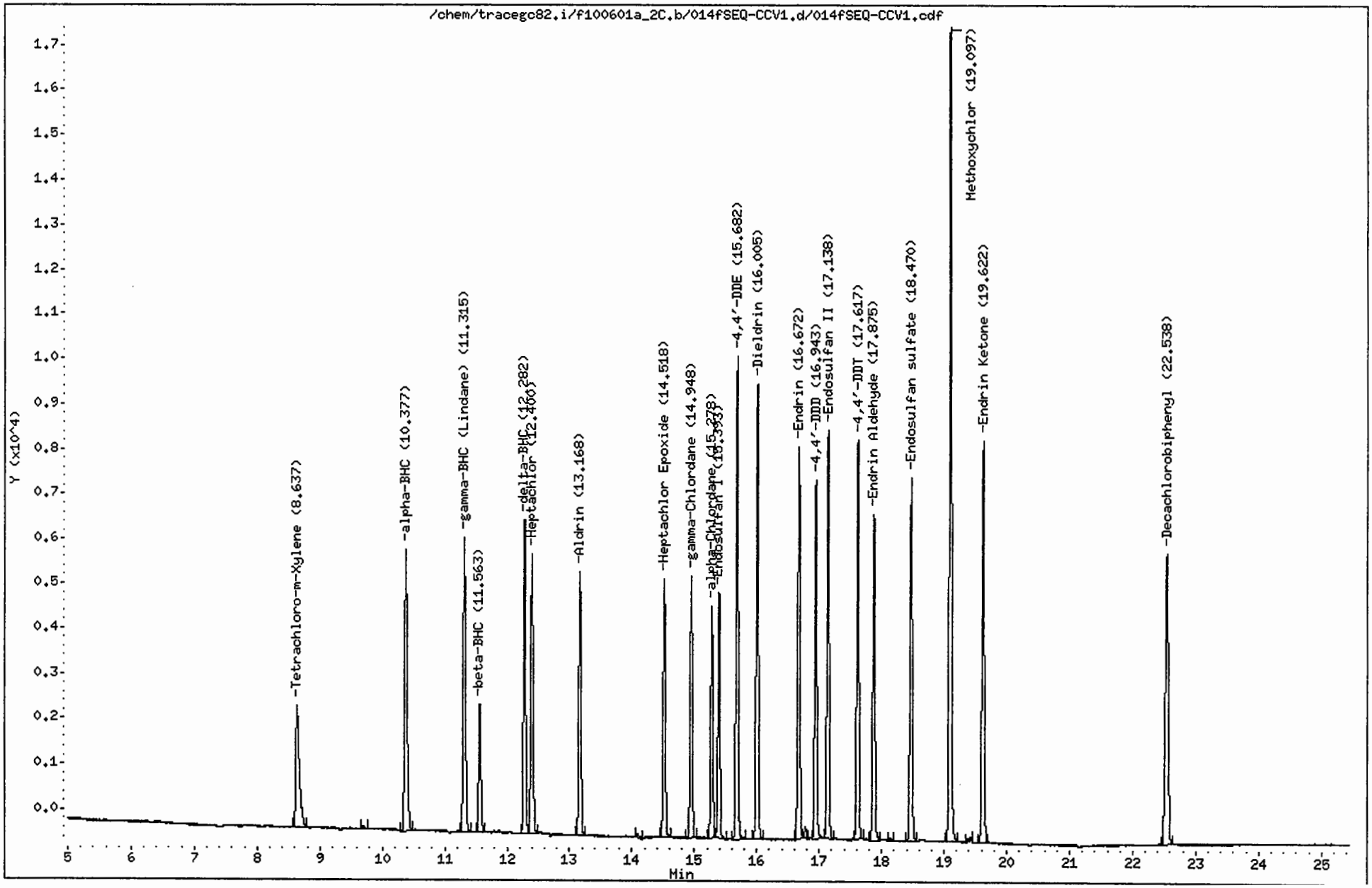
Sample Info: SEQ-CCV1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3FD
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 01-JUN-2010 22:07 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3FD

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.33			314								
1.36			4540								
1.77			1216								
1.94			2163								
2.67			534								
8.64	8.59	8.73	10689	548876	Tetrachloro-m-Xylene	0.020000	534435	2.6	20.0		
9.69			139								
10.38	10.32	10.46	17683	916452	alpha-BHC	0.020000	884130	3.5	20.0		
11.32	11.25	11.39	16798	866882	gamma-BHC (Lindane)	0.020000	839925	3.1	20.0		
11.56	11.50	11.64	6815	347428	beta-BHC	0.020000	340735	1.9	20.0		
12.28	12.22	12.36	15943	827595	delta-BHC	0.020000	797137	3.7	20.0		
12.40	12.33	12.47	15182	778205	Heptachlor	0.020000	759123	2.5	20.0		
13.17	13.10	13.24	14096	726628	Aldrin	0.020000	704780	3.0	20.0		
14.09			249								
14.52	14.45	14.59	13407	683115	Heptachlor Epoxide	0.020000	670355	1.9	20.0		
14.95	14.88	15.02	13521	690205	gamma-Chlordane	0.020000	676048	2.1	20.0		
15.28	15.21	15.35	11669	595455	alpha-Chlordane	0.020000	583475	2.0	20.0		
15.39	15.33	15.47	12700	638725	Endosulfan I	0.020000	634995	0.6	20.0		
15.68	15.61	15.75	24122	617325	4,4'-DDE	0.040000	603055	2.3	20.0		
16.00	15.94	16.08	23526	598394	Dieldrin	0.040000	588156	1.7	20.0		
16.67	16.60	16.74	20906	524785	Endrin	0.040000	522649	0.4	20.0		
16.78			521								
16.94	16.87	17.01	18112	454222	4,4'-DDD	0.040000	452805	0.3	20.0		
17.14	17.07	17.21	21250	526756	Endosulfan II	0.040000	531255	-0.9	20.0		
17.62	17.55	17.69	20144	503765	4,4'-DDT	0.040000	503603	0.0	20.0		
17.88	17.81	17.95	17652	425754	Endrin Aldehyde	0.040000	441310	-3.7	20.0		
18.13			134								
18.47	18.40	18.54	19467	479624	Endosulfan sulfate	0.040000	486675	-1.5	20.0		
19.10	19.03	19.17	42170	208391	Methoxychlor	0.200000	210849	-1.2	20.0		
19.38			263								
19.62	19.55	19.69	21974	535815	Endrin Ketone	0.040000	549358	-2.5	20.0		
22.54	22.47	22.61	20875	497254	Decachlorobiphenyl	0.040000	521878	-5.0	20.0		

6/2/10

Data File: /chem/tracegc82.i/f100601a_2C.b/015fSEQ-PEM1.d

Date : 01-JUN-2010 22:36

Client ID: PEMFD

Instrument: tracegc82.i

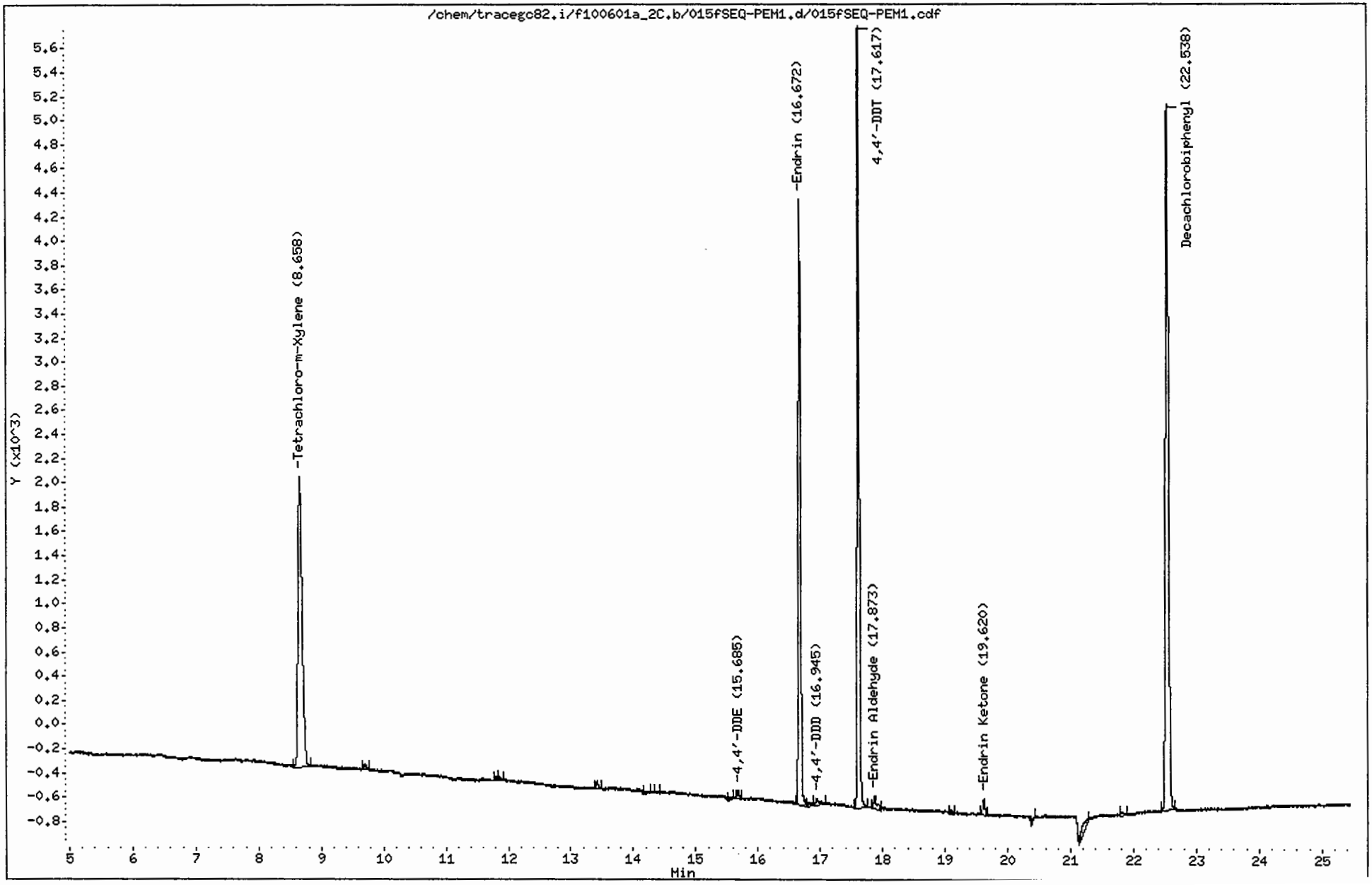
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMFD
Sample Type : SAMPLE Sublist : PEM
Inj Date : 01-JUN-2010 22:36 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PEMFD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.25			75								
1.35			851								
1.48			58299								
2.62			385								
4.27			47								
8.66	8.59	8.73	11044	548876	Tetrachloro-m-Xylene	0.020121	0.020121		101.6	43 - 135	
9.70			122								
11.81			74								
11.87			87								
13.41			184								
14.19			63								
14.38			48								
15.55			50								
15.68	15.61	15.75	145	617325	4,4'-DDE	0.000235	0.000235	0.020000			J
16.67	16.60	16.74	12061	524785	Endrin	0.022984	0.022984	0.020000			
16.82			149								
16.94	16.87	17.01	238	454222	4,4'-DDD	0.000523	0.000523	0.020000			J
17.62	17.55	17.69	14986	503765	4,4'-DDT	0.029748	0.029748	0.020000			
17.87	17.81	17.95	367	425754	Endrin Aldehyde	0.000861	0.000861	0.020000			J
19.09			59								
19.62	19.55	19.69	326	535815	Endrin Ketone	0.000608	0.000608	0.020000			J
20.42			45								
21.28			432								
21.82			98								
22.54	22.47	22.61	19059	497254	Decachlorobiphenyl	0.038328	0.038328		96.8	43 - 144	

Data File: /chem/tracegc82.i/f100601b.b/027fSEQ-CCV2.d

Date : 02-JUN-2010 04:26

Client ID: INDC3FF

Instrument: tracegc82.i

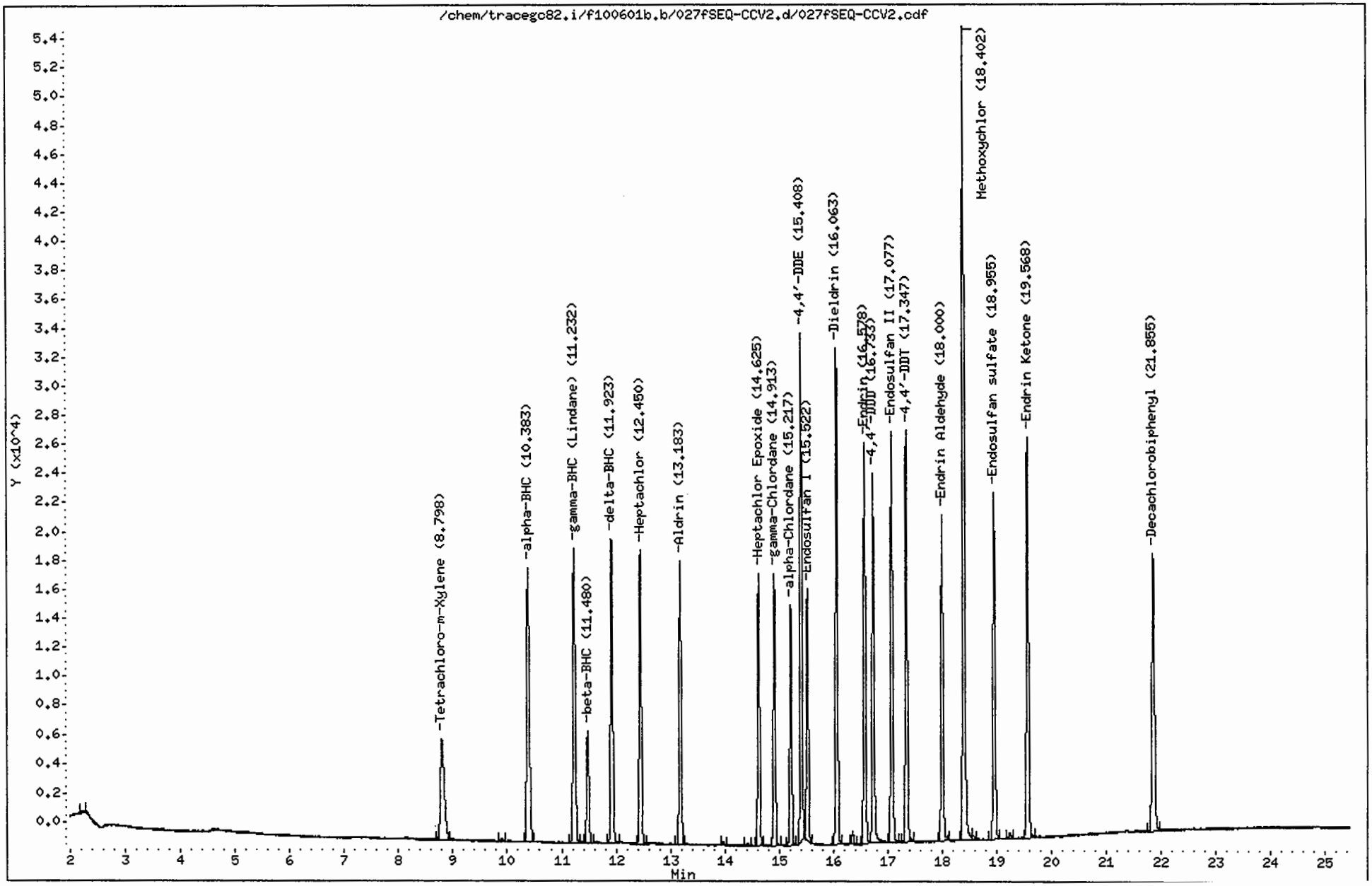
Sample Info: SEQ-CCV2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3FF
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 02-JUN-2010 04:26 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : INDC3FF

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
0.03			422								
1.05			313								
1.33			356								
1.37			1013								
1.46			35593								
2.22			365								
8.80	8.73	8.87	33729	1587700	Tetrachloro-m-Xylene	0.020000	1686450	-6.2	20.0		
9.91			560								
10.38	10.32	10.46	63242	3028788	alpha-BHC	0.020000	3162085	-4.4	20.0		
11.23	11.16	11.30	58930	2817265	gamma-BHC (Lindane)	0.020000	2946480	-4.6	20.0		
11.48	11.41	11.55	21327	1035150	beta-BHC	0.020000	1066330	-3.0	20.0		
11.92	11.85	11.99	56335	2721052	delta-BHC	0.020000	2816755	-3.5	20.0		
12.45	12.38	12.52	54083	2589888	Heptachlor	0.020000	2704150	-4.4	20.0		
13.18	13.11	13.25	50000	2391920	Aldrin	0.020000	2500007	-4.5	20.0		
13.97			661								
14.41			413								
14.62	14.56	14.70	46102	2235460	Heptachlor Epoxide	0.020000	2305075	-3.1	20.0		
14.91	14.84	14.98	46029	2245768	gamma-Chlordane	0.020000	2301475	-2.5	20.0		
15.22	15.15	15.29	39863	1924148	alpha-Chlordane	0.020000	1993130	-3.6	20.0		
15.41	15.34	15.48	81063	2012896	4,4'-DDE	0.040000	2026572	-0.7	20.0		
15.52	15.45	15.59	41886	2067970	Endosulfan I	0.020000	2094317	-1.3	20.0		
16.06	15.99	16.13	83083	2037205	Dieldrin	0.040000	2077066	-2.0	20.0		
16.35			2085								
16.58	16.51	16.65	68053	1695798	Endrin	0.040000	1701325	-0.3	20.0		
16.73	16.66	16.80	62793	1534440	4,4'-DDD	0.040000	1569820	-2.3	20.0		
17.08	17.01	17.15	70449	1759840	Endosulfan II	0.040000	1761235	-0.1	20.0		
17.35	17.27	17.41	69195	1722489	4,4'-DDT	0.040000	1729872	-0.4	20.0		
18.00	17.93	18.07	56067	1371845	Endrin Aldehyde	0.040000	1401682	-2.2	20.0		
18.40	18.33	18.47	142567	731447	Methoxychlor	0.200000	712837	2.5	20.0		
18.57			824								
18.96	18.89	19.03	61468	1574194	Endosulfan sulfate	0.040000	1536694	2.4	20.0		
19.23			1010								
19.57	19.49	19.63	73105	1849761	Endrin Ketone	0.040000	1827635	1.2	20.0		
21.86	21.79	21.93	61727	1622138	Decachlorobiphenyl	0.040000	1543165	4.9	20.0		

Data File: /chem/tracegc82.i/f100601b.b/028fSEQ-PEM2.d

Date : 02-JUN-2010 04:55

Client ID: PEMFF

Instrument: tracegc82.i

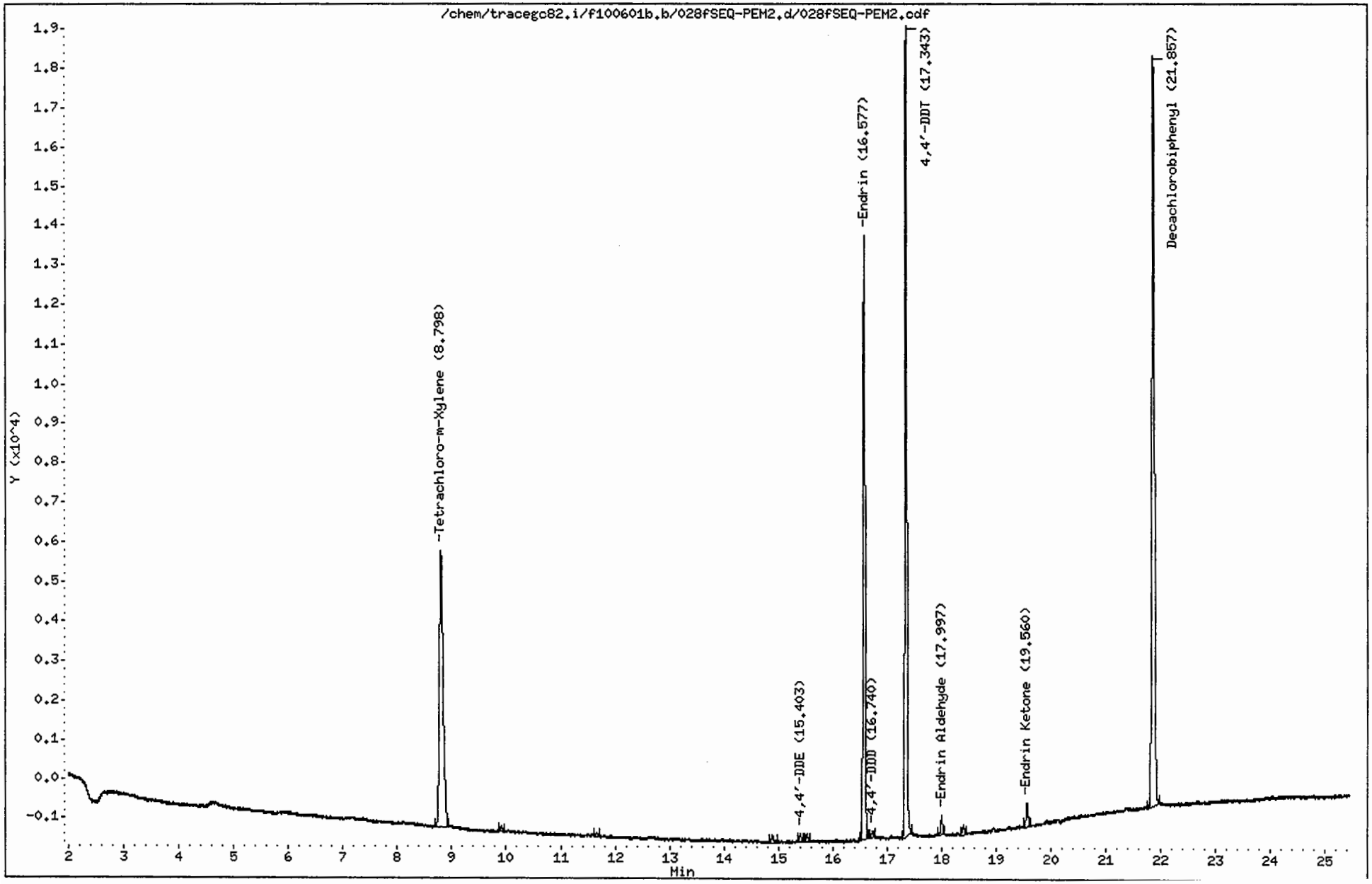
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMFF
Sample Type : SAMPLE Sublist : PEM
Inj Date : 02-JUN-2010 04:55 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : PEMFF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.37			2133								
1.43			31948								
8.80	8.73	8.87	33716	1587700	Tetrachloro-m-Xylene	0.021236	0.021236		107.3	43 - 135	
9.90			467								
11.65			322								
14.88			658								
15.40	15.34	15.48	549	2012896	4,4'-DDE	0.000273	0.000273	0.020000			J
15.53			525								
16.58	16.51	16.65	38009	1695798	Endrin	0.022414	0.022414	0.020000			
16.74	16.66	16.80	401	1534440	4,4'-DDD	0.000261	0.000261	0.020000			J
17.34	17.27	17.41	50788	1722489	4,4'-DDT	0.029485	0.029485	0.020000			
18.00	17.93	18.07	1163	1371845	Endrin Aldehyde	0.000848	0.000848	0.020000			J
18.41			678								
19.56	19.49	19.63	1669	1849761	Endrin Ketone	0.000902	0.000902	0.020000			J
21.86	21.79	21.93	61624	1622138	Decachlorobiphenyl	0.037989	0.037989		95.9	43 - 144	

6/2/10

Data File: /chem/tracegc82.i/f100601b_2C.b/027fSEQ-CCV2.d

Page 1

Date : 02-JUN-2010 04:26

Client ID: INDC3FF

Instrument: tracegc82.i

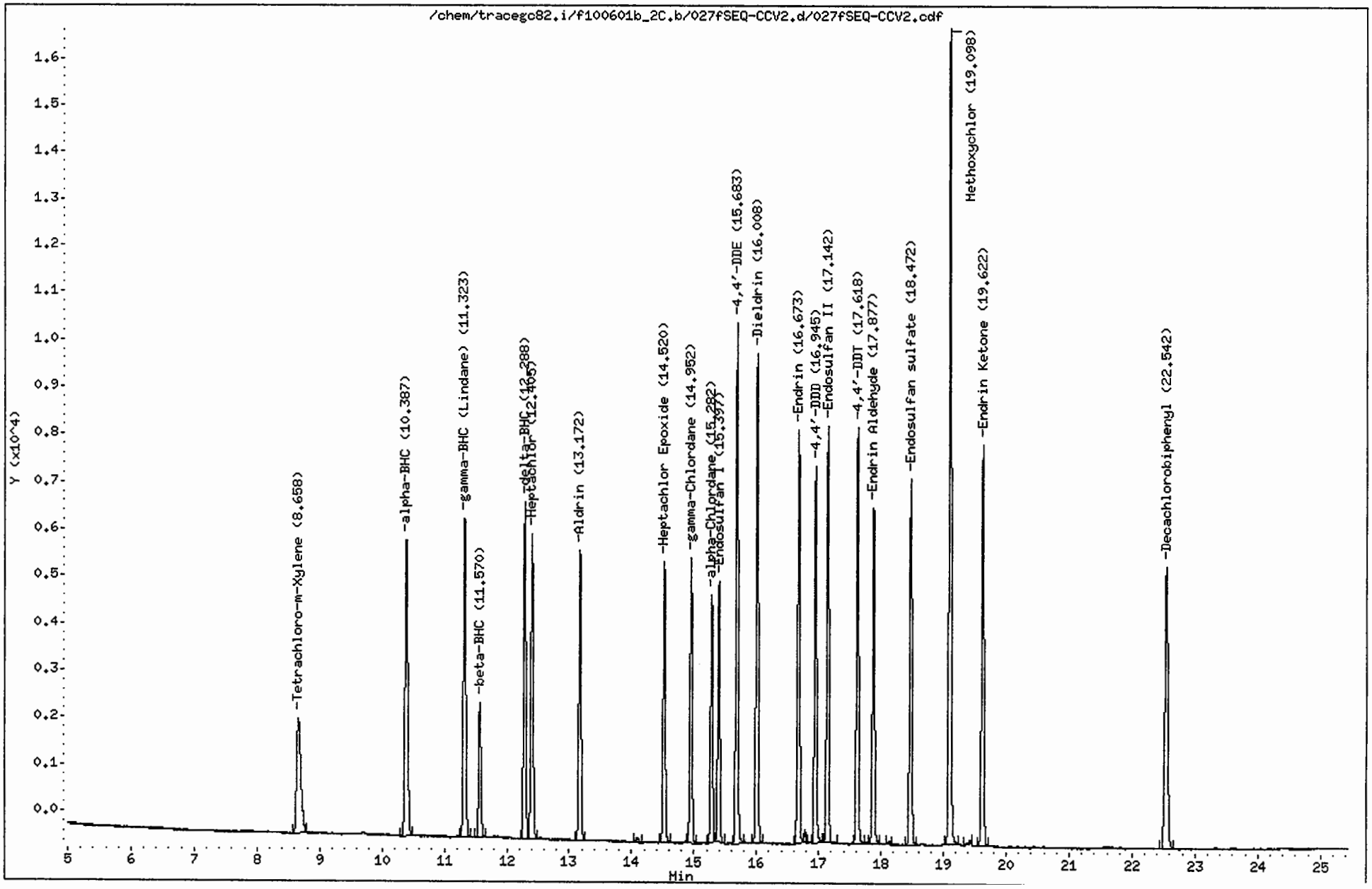
Sample Info: SEQ-CCV2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV2 Client Smp Id : INDC3FF
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 02-JUN-2010 04:26 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3FF

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.35			468								
1.50			72001								
8.66	8.59	8.73	11401	548876	Tetrachloro-m-Xylene	0.020000	570033	-3.9	20.0		
10.39	10.32	10.46	18794	916452	alpha-BHC	0.020000	939707	-2.5	20.0		
11.32	11.25	11.39	17803	866882	gamma-BHC (Lindane)	0.020000	890140	-2.7	20.0		
11.57	11.50	11.64	7200	347428	beta-BHC	0.020000	360020	-3.6	20.0		
12.29	12.22	12.36	16679	827595	delta-BHC	0.020000	833950	-0.8	20.0		
12.40	12.33	12.47	16099	778205	Heptachlor	0.020000	804927	-3.4	20.0		
13.17	13.10	13.24	14862	726628	Aldrin	0.020000	743117	-2.3	20.0		
14.10			229								
14.52	14.45	14.59	13940	683115	Heptachlor Epoxide	0.020000	697023	-2.0	20.0		
14.95	14.88	15.02	13990	690205	gamma-Chlordane	0.020000	699495	-1.3	20.0		
15.28	15.21	15.35	12100	595455	alpha-Chlordane	0.020000	605003	-1.6	20.0		
15.40	15.33	15.47	12987	638725	Endosulfan I	0.020000	649357	-1.7	20.0		
15.68	15.61	15.75	24898	617325	4,4'-DDE	0.040000	622450	-0.8	20.0		
16.01	15.94	16.08	24039	598394	Dieldrin	0.040000	600963	-0.4	20.0		
16.67	16.60	16.74	20704	524785	Endrin	0.040000	517595	1.4	20.0		
16.78			553								
16.94	16.87	17.01	18034	454222	4,4'-DDD	0.040000	450861	0.7	20.0		
17.14	17.07	17.21	20925	526756	Endosulfan II	0.040000	523130	0.7	20.0		
17.62	17.55	17.69	19948	503765	4,4'-DDT	0.040000	498708	1.0	20.0		
17.88	17.81	17.95	17042	425754	Endrin Aldehyde	0.040000	426045	-0.1	20.0		
18.14			194								
18.47	18.40	18.54	18752	479624	Endosulfan sulfate	0.040000	468795	2.3	20.0		
19.10	19.03	19.17	40367	208391	Methoxychlor	0.200000	201835	3.1	20.0		
19.38			252								
19.62	19.55	19.69	21055	535815	Endrin Ketone	0.040000	526385	1.8	20.0		
22.54	22.47	22.61	19393	497254	Decachlorobiphenyl	0.040000	484833	2.5	20.0		

Data File: /chem/tracegc82.i/f100601b_2C.b/028fSEQ-PEM2.d

Page 1

Date : 02-JUN-2010 04:55

Client ID: PEMFF

Instrument: tracegc82.i

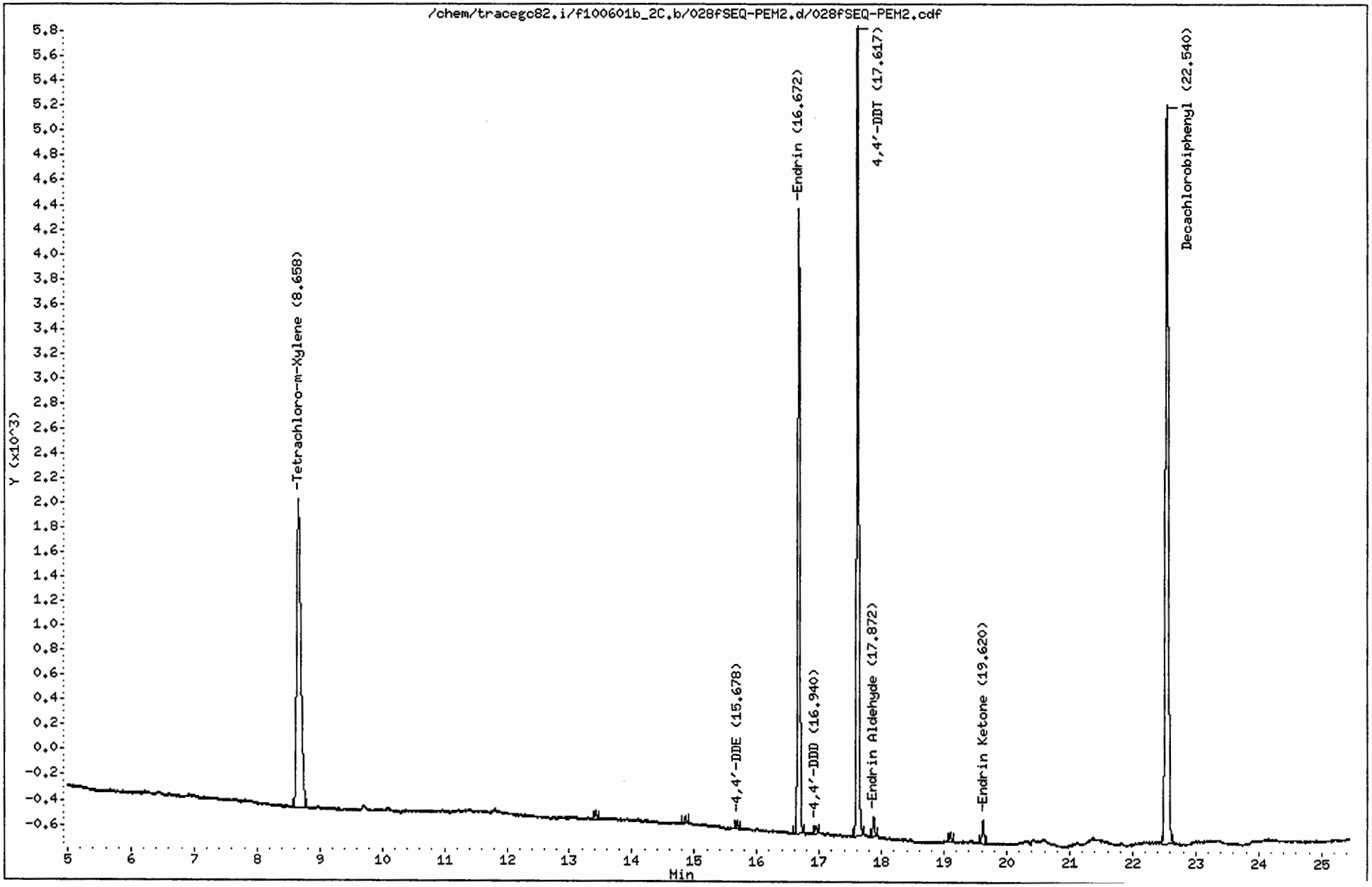
Sample Info: SEQ-PEM2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM2 Client Smp Id : PEMFF
Sample Type : SAMPLE Sublist : PEM
Inj Date : 02-JUN-2010 04:55 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : PEMFF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.34			449								
1.48			58378								
2.60			450								
8.66	8.59	8.73	11477	548876	Tetrachloro-m-Xylene	0.020910	0.020910		105.6	43 - 135	
13.42			166								
14.86			148								
15.68	15.61	15.75	153	617325	4,4'-DDE	0.000247	0.000247	0.020000			J
16.67	16.60	16.74	11944	524785	Endrin	0.022759	0.022759	0.020000			
16.94	16.87	17.01	162	454222	4,4'-DDD	0.000357	0.000357	0.020000			J
17.62	17.55	17.69	15044	503765	4,4'-DDT	0.029863	0.029863	0.020000			
17.87	17.81	17.95	351	425754	Endrin Aldehyde	0.000825	0.000825	0.020000			J
19.10			165								
19.62	19.55	19.69	476	535815	Endrin Ketone	0.000888	0.000888	0.020000			J
22.54	22.47	22.61	19147	497254	Decachlorobiphenyl	0.038505	0.038505		97.2	43 - 144	

Data File: /chem/tracegc82.i/f100601c.b/040fSEQ-CCV3.d

Page 1

Date : 02-JUN-2010 10:44

Client ID: INDC3FH

Instrument: tracegc82.i

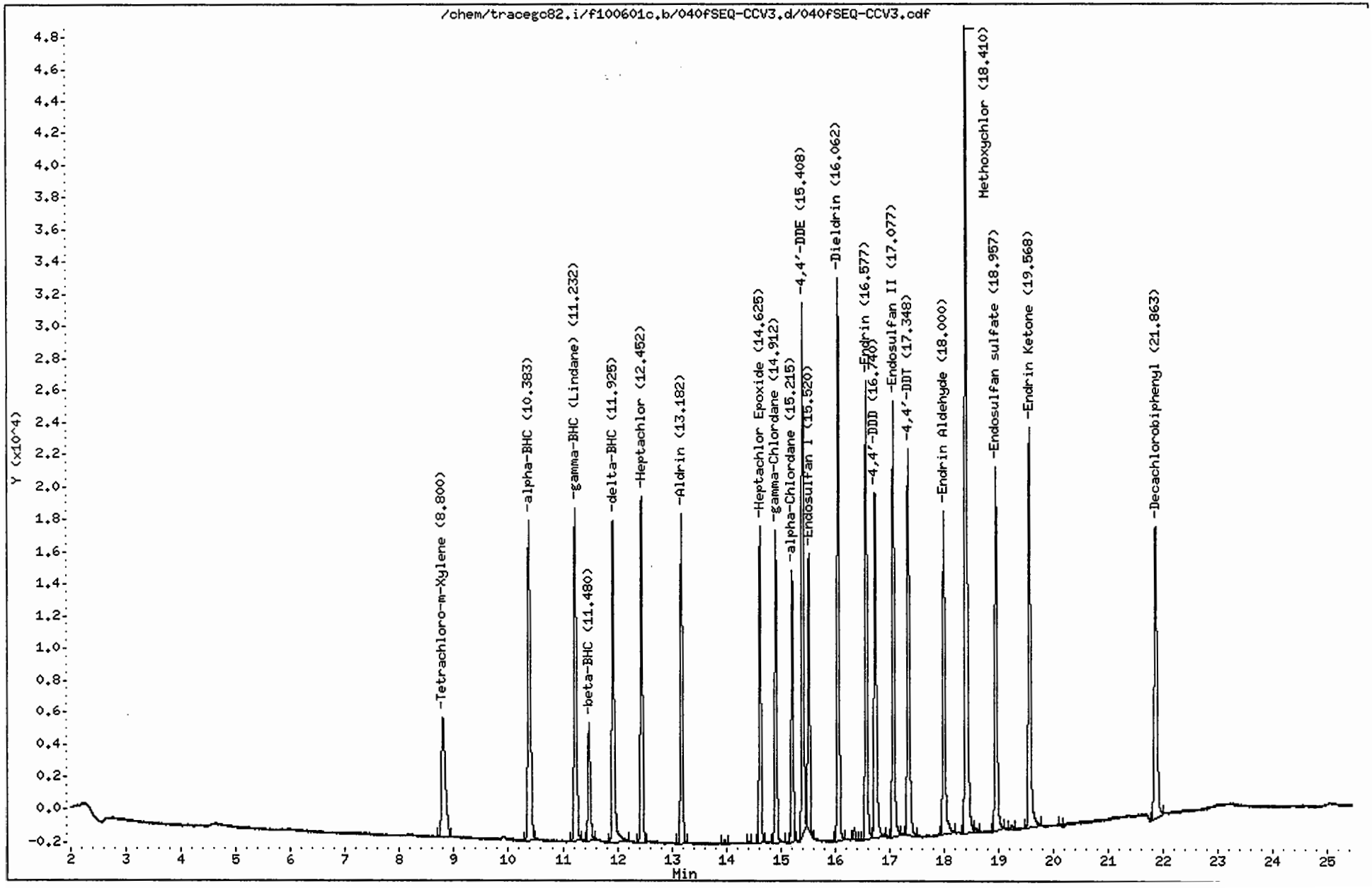
Sample Info: SEQ-CCV3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3FH
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 02-JUN-2010 10:44 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : INDC3FH

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.26			613								
1.35			2866								
1.45			42244								
8.80	8.73	8.87	35441	1587700	Tetrachloro-m-Xylene	0.020000	1772045	-11.6	20.0		
10.38	10.32	10.46	66419	3028788	alpha-BHC	0.020000	3320940	-9.6	20.0		
11.23	11.16	11.30	61166	2817265	gamma-BHC (Lindane)	0.020000	3058305	-8.6	20.0		
11.48	11.41	11.55	20934	1035150	beta-BHC	0.020000	1046692	-1.1	20.0		
11.92	11.85	11.99	59250	2721052	delta-BHC	0.020000	2962520	-8.9	20.0		
12.45	12.38	12.52	56895	2589888	Heptachlor	0.020000	2844765	-9.8	20.0		
13.18	13.11	13.25	52213	2391920	Aldrin	0.020000	2610640	-9.1	20.0		
13.97			595								
14.41			301								
14.62	14.56	14.70	47329	2235460	Heptachlor Epoxide	0.020000	2366445	-5.9	20.0		
14.91	14.84	14.98	47588	2245768	gamma-Chlordane	0.020000	2379410	-6.0	20.0		
15.22	15.15	15.29	40162	1924148	alpha-Chlordane	0.020000	2008112	-4.4	20.0		
15.41	15.34	15.48	80584	2012896	4,4'-DDE	0.040000	2014605	-0.1	20.0		
15.52	15.45	15.59	41106	2067970	Endosulfan I	0.020000	2055280	0.6	20.0		
16.06	15.99	16.13	85111	2037205	Dieldrin	0.040000	2127764	-4.4	20.0		
16.35			2029								
16.58	16.51	16.65	72173	1695798	Endrin	0.040000	1804313	-6.4	20.0		
16.74	16.66	16.80	64218	1534440	4,4'-DDD	0.040000	1605439	-4.6	20.0		
17.08	17.01	17.15	70219	1759840	Endosulfan II	0.040000	1755484	0.2	20.0		
17.35	17.27	17.41	68476	1722489	4,4'-DDT	0.040000	1711901	0.6	20.0		
18.00	17.93	18.07	56181	1371845	Endrin Aldehyde	0.040000	1404537	-2.4	20.0		
18.41	18.33	18.47	146627	731447	Methoxychlor	0.200000	733136	-0.2	20.0		
18.59			863								
18.96	18.89	19.03	60901	1574194	Endosulfan sulfate	0.040000	1522526	3.3	20.0		
19.25			805								
19.57	19.49	19.63	72892	1849761	Endrin Ketone	0.040000	1822297	1.5	20.0		
20.12			391								
21.86	21.79	21.93	63655	1622138	Decachlorobiphenyl	0.040000	1591382	1.9	20.0		

Data File: /chem/tracegc82.i/f100601c.b/041fSEQ-PEM3.d

Page 1

Date : 02-JUN-2010 11:13

Client ID: PEMFH

Instrument: tracegc82.i

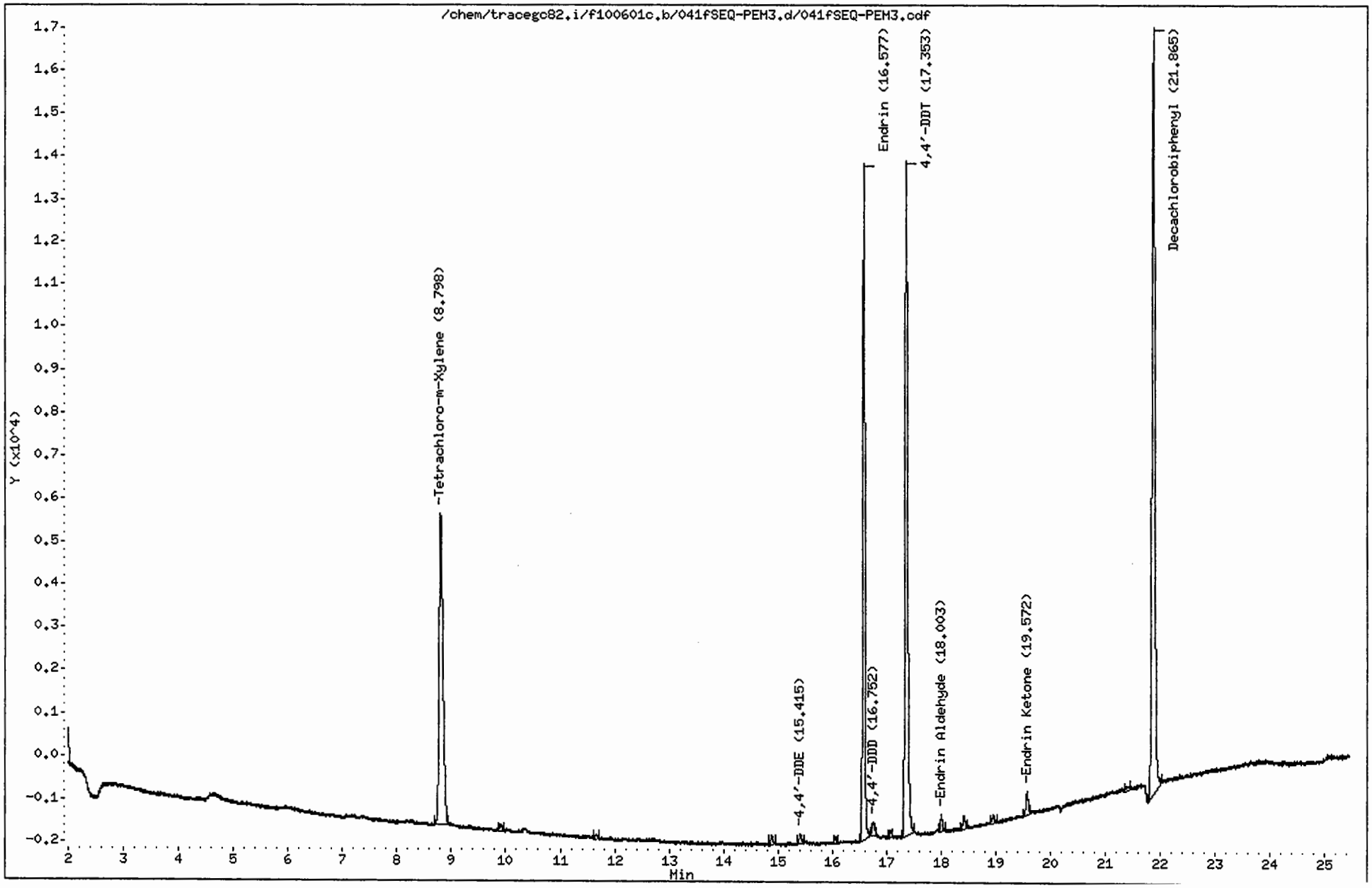
Sample Info: SEQ-PEM3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMFH
Sample Type : SAMPLE Sublist : PEM
Inj Date : 02-JUN-2010 11:13 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : PEMFH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.38			2060								
1.44			31577								
8.80	8.73	8.87	34771	1587700	Tetrachloro-m-Xylene	0.021900	0.021900		110.6	43 - 135	
9.91			518								
11.66			293								
14.89			608								
15.42	15.34	15.48	640	2012896	4,4'-DDE	0.000318	0.000318	0.020000			J
16.07			342								
16.58	16.51	16.65	39767	1695798	Endrin	0.023451	0.023451	0.020000			
16.75	16.66	16.80	1096	1534440	4,4'-DDD	0.000714	0.000714	0.020000			J
17.08			430								
17.35	17.27	17.41	49829	1722489	4,4'-DDT	0.028929	0.028929	0.020000			
18.00	17.93	18.07	1005	1371845	Endrin Aldehyde	0.000733	0.000733	0.020000			J
18.41			966								
18.95			606								
19.57	19.49	19.63	1556	1849761	Endrin Ketone	0.000841	0.000841	0.020000			J
21.39			455								
21.86	21.79	21.93	63360	1622138	Decachlorobiphenyl	0.039059	0.039059		98.6	43 - 144	

Data File: /chem/tracegc82.i/f100601c_2C.b/040fSEQ-CCV3.d

Date : 02-JUN-2010 10:44

Client ID: INDC3FH

Instrument: tracegc82.i

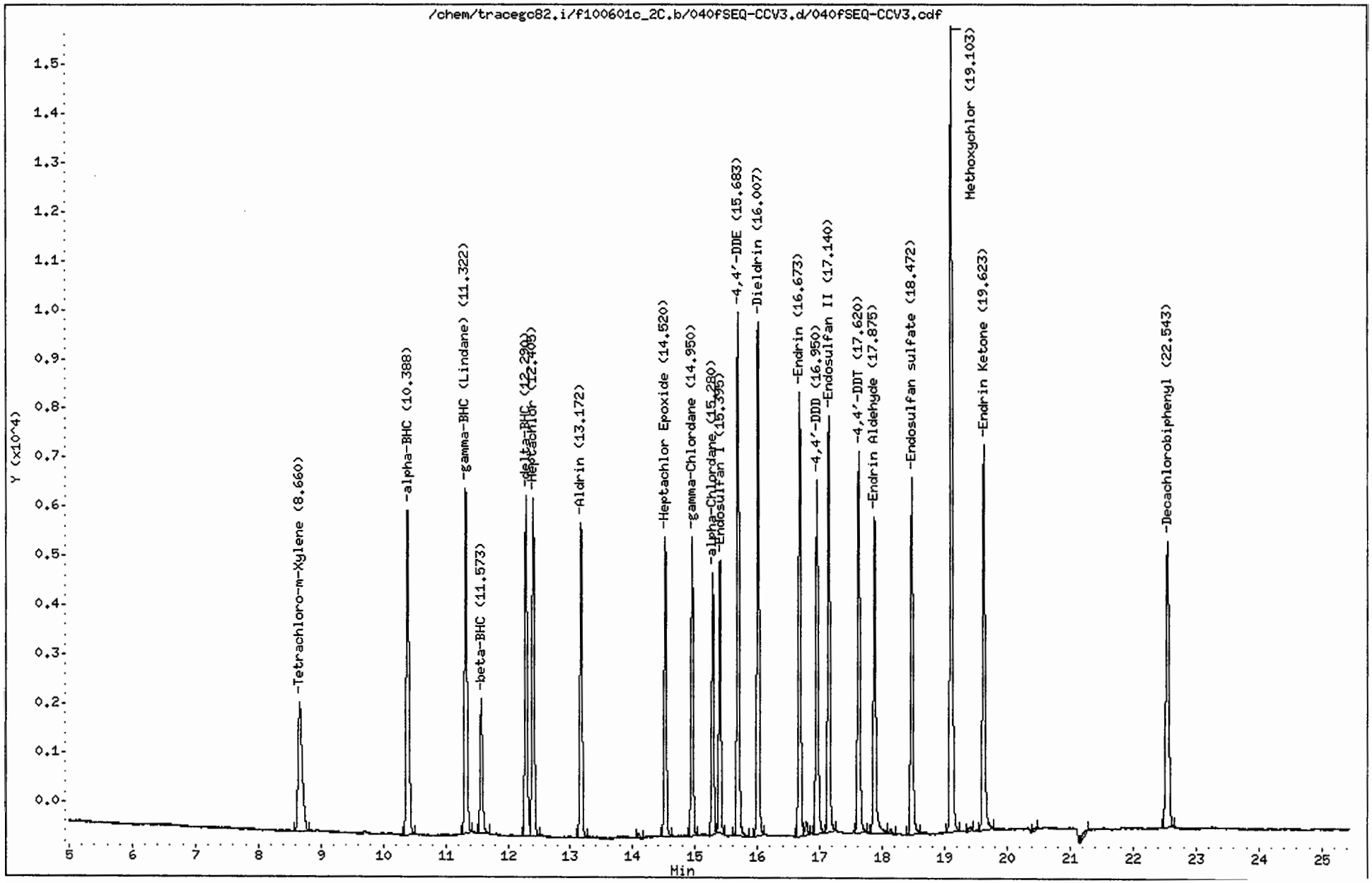
Sample Info: SEQ-CCV3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3FH
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 02-JUN-2010 10:44 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3FH

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
0.09			149								
1.35			473								
1.50			78683								
2.63			280								
8.66	8.59	8.73	12193	548876	Tetrachloro-m-Xylene	0.020000	609670	-11.1	20.0		
10.39	10.32	10.46	19830	916452	alpha-BHC	0.020000	991505	-8.2	20.0		
11.32	11.25	11.39	18407	866882	gamma-BHC (Lindane)	0.020000	920363	-6.2	20.0		
11.57	11.50	11.64	7250	347428	beta-BHC	0.020000	362480	-4.3	20.0		
12.29	12.22	12.36	16883	827595	delta-BHC	0.020000	844152	-2.0	20.0		
12.40	12.33	12.47	17336	778205	Heptachlor	0.020000	866780	-11.4	20.0		
13.17	13.10	13.24	15503	726628	Aldrin	0.020000	775145	-6.7	20.0		
14.09			244								
14.52	14.45	14.59	14278	683115	Heptachlor Epoxide	0.020000	713898	-4.5	20.0		
14.95	14.88	15.02	14237	690205	gamma-Chlordane	0.020000	711860	-3.1	20.0		
15.28	15.21	15.35	12136	595455	alpha-Chlordane	0.020000	606805	-1.9	20.0		
15.40	15.33	15.47	13029	638725	Endosulfan I	0.020000	651430	-2.0	20.0		
15.68	15.61	15.75	25518	617325	4,4'-DDE	0.040000	637945	-3.3	20.0		
16.01	15.94	16.08	24489	598394	Dieldrin	0.040000	612228	-2.3	20.0		
16.67	16.60	16.74	21755	524785	Endrin	0.040000	543870	-3.6	20.0		
16.78			658								
16.95	16.87	17.01	18442	454222	4,4'-DDD	0.040000	461046	-1.5	20.0		
17.14	17.07	17.21	20776	526756	Endosulfan II	0.040000	519397	1.4	20.0		
17.62	17.55	17.69	19816	503765	4,4'-DDT	0.040000	495407	1.7	20.0		
17.88	17.81	17.95	17242	425754	Endrin Aldehyde	0.040000	431050	-1.2	20.0		
18.14			283								
18.47	18.40	18.54	18483	479624	Endosulfan sulfate	0.040000	462070	3.7	20.0		
19.10	19.03	19.17	41289	208391	Methoxychlor	0.200000	206446	0.9	20.0		
19.39			245								
19.62	19.55	19.69	20938	535815	Endrin Ketone	0.040000	523445	2.3	20.0		
20.46			132								
21.27			551								
22.54	22.47	22.61	19195	497254	Decachlorobiphenyl	0.040000	479865	3.5	20.0		

Data File: /chem/tracegc82.i/f100601c_2C.b/041fSEQ-PEM3.d

Date : 02-JUN-2010 11:13

Client ID: PEMFH

Instrument: tracegc82.i

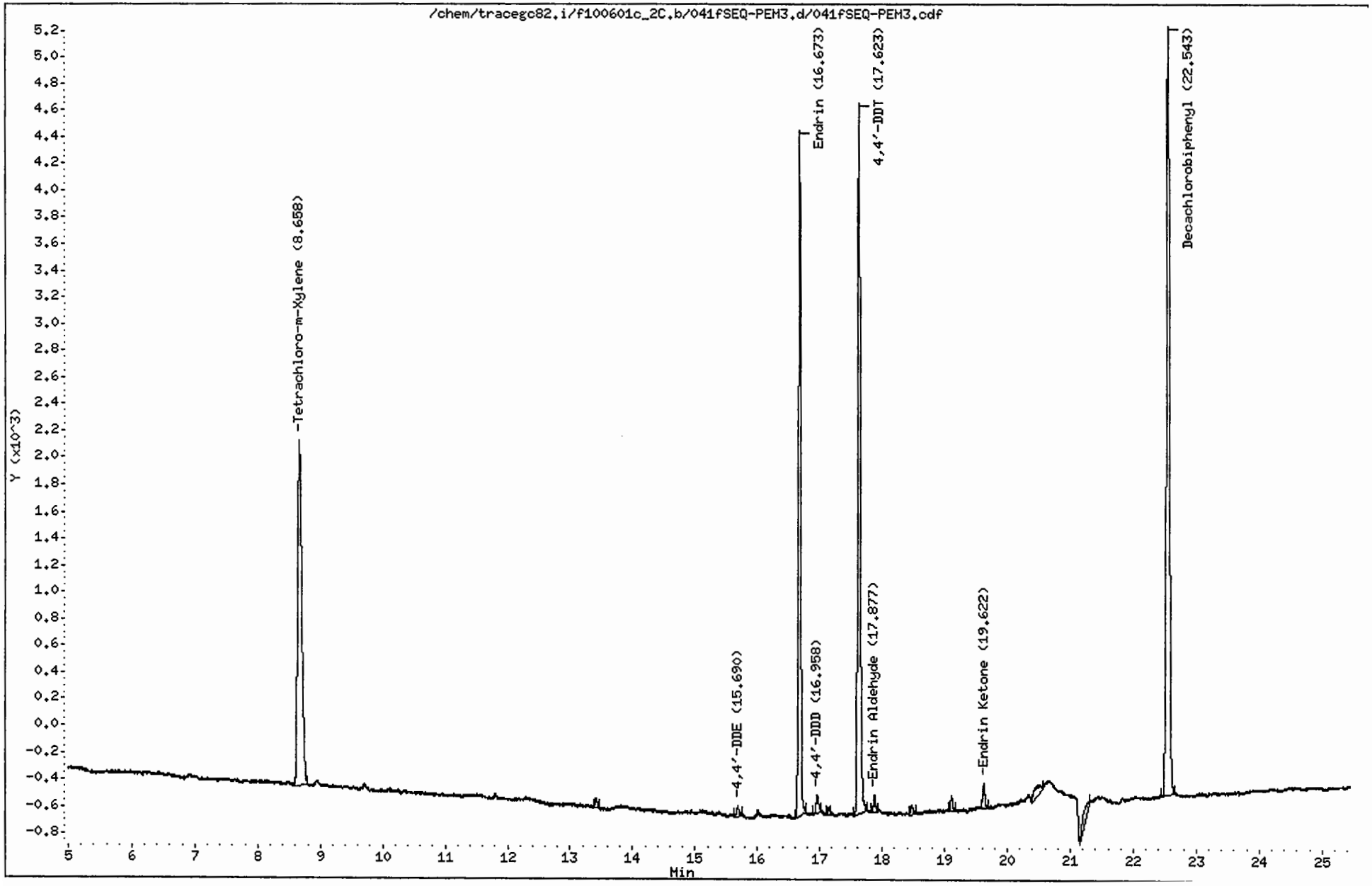
Sample Info: SEQ-PEM3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMFH
Sample Type : SAMPLE Sublist : PEM
Inj Date : 02-JUN-2010 11:13 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : PEMFH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.07			336								
1.35			642								
1.49			3545								
2.59			217								
8.66	8.59	8.73	11930	548876	Tetrachloro-m-Xylene	0.021736	0.021736		109.8	43 - 135	
13.42			165								
15.69	15.61	15.75	191	617325	4,4'-DDE	0.000310	0.000310	0.020000			J
16.67	16.60	16.74	12317	524785	Endrin	0.023471	0.023471	0.020000			
16.96	16.87	17.01	384	454222	4,4'-DDD	0.000846	0.000846	0.020000			J
17.14			120								
17.62	17.55	17.69	14656	503765	4,4'-DDT	0.029094	0.029094	0.020000			
17.88	17.81	17.95	283	425754	Endrin Aldehyde	0.000664	0.000664	0.020000			J
18.47			177								
19.11			281								
19.62	19.55	19.69	460	535815	Endrin Ketone	0.000859	0.000859	0.020000			J
20.49			519								
21.29			611								
22.54	22.47	22.61	19142	497254	Decachlorobiphenyl	0.038496	0.038496		97.2	43 - 144	

Data File: /chem/tracegc82.i/f100601d.b/053fSEQ-CCV4.d

Date : 02-JUN-2010 17:03

Client ID: INDC3FJ

Instrument: tracegc82.i

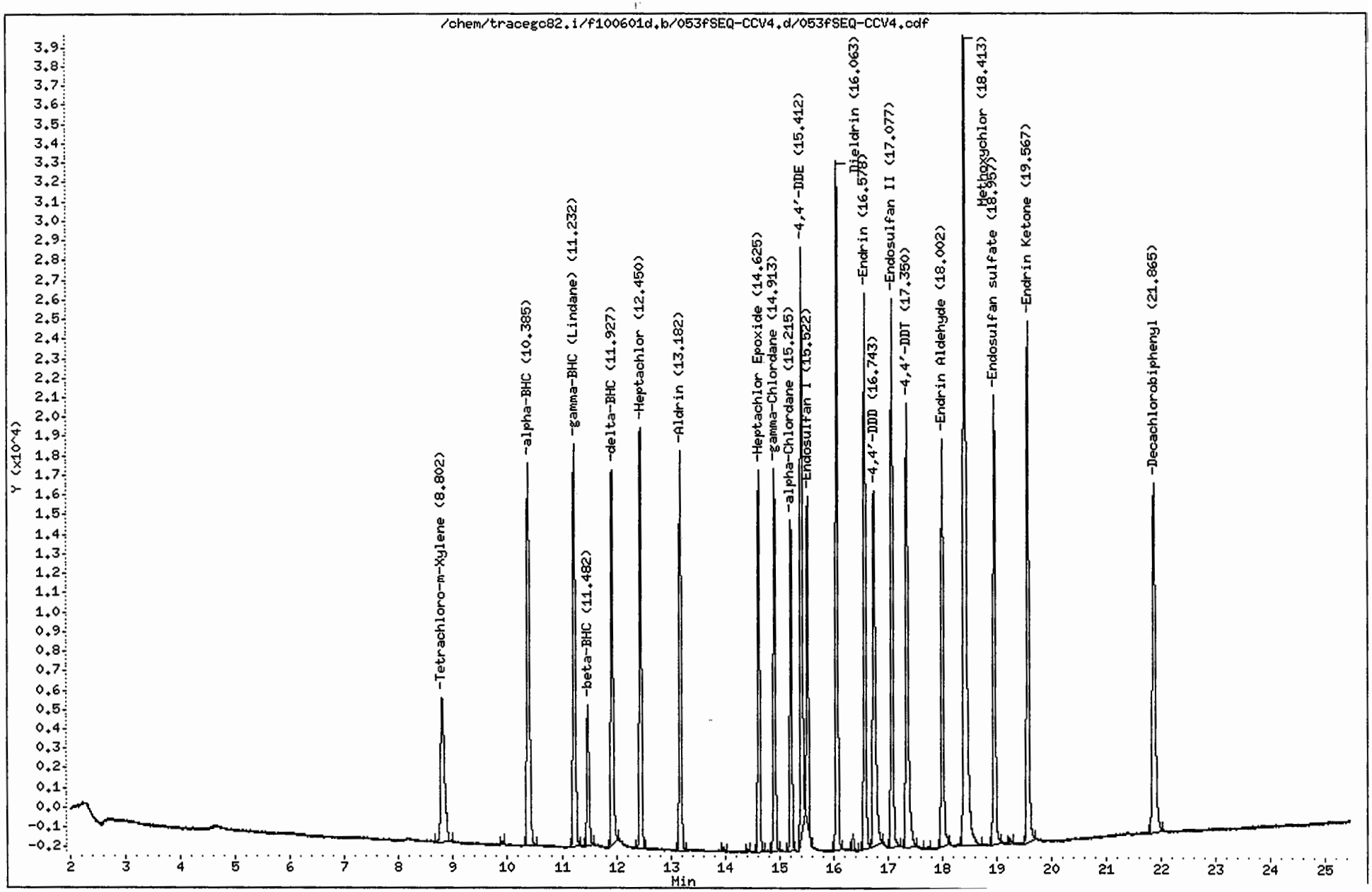
Sample Info: SEQ-CCV4

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV4 Client Smp Id : INDC3FJ
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 02-JUN-2010 17:03 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : INDC3FJ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
0.02			319								
1.04			370								
1.29			615								
1.37			3068								
1.45			37439								
8.80	8.73	8.87	35644	1587700	Tetrachloro-m-Xylene	0.020000	1782222	-12.3	20.0		
9.90			285								
10.38	10.32	10.46	66299	3028788	alpha-BHC	0.020000	3314953	-9.4	20.0		
11.23	11.16	11.30	60818	2817265	gamma-BHC (Lindane)	0.020000	3040908	-7.9	20.0		
11.48	11.41	11.55	20375	1035150	beta-BHC	0.020000	1018735	1.6	20.0		
11.93	11.85	11.99	53351	2721052	delta-BHC	0.020000	2667555	2.0	20.0		
12.45	12.38	12.52	56687	2589888	Heptachlor	0.020000	2834360	-9.4	20.0		
13.18	13.11	13.25	52402	2391920	Aldrin	0.020000	2620080	-9.5	20.0		
13.98			634								
14.42			349								
14.62	14.56	14.70	47920	2235460	Heptachlor Epoxide	0.020000	2396013	-7.2	20.0		
14.91	14.84	14.98	47205	2245768	gamma-Chlordane	0.020000	2360253	-5.1	20.0		
15.22	15.15	15.29	40703	1924148	alpha-Chlordane	0.020000	2035168	-5.8	20.0		
15.41	15.34	15.48	77182	2012896	4,4'-DDE	0.040000	1929544	4.1	20.0		
15.52	15.45	15.59	40021	2067970	Endosulfan I	0.020000	2001038	3.2	20.0		
16.06	15.99	16.13	85888	2037205	Dieldrin	0.040000	2147211	-5.4	20.0		
16.36			1992								
16.58	16.51	16.65	70935	1695798	Endrin	0.040000	1773380	-4.6	20.0		
16.74	16.66	16.80	63302	1534440	4,4'-DDD	0.040000	1582542	-3.1	20.0		
17.08	17.01	17.15	71552	1759840	Endosulfan II	0.040000	1788807	-1.6	20.0		
17.35	17.27	17.41	69348	1722489	4,4'-DDT	0.040000	1733706	-0.7	20.0		
17.68			354								
18.00	17.93	18.07	56188	1371845	Endrin Aldehyde	0.040000	1404705	-2.4	20.0		
18.41	18.33	18.47	150351	731447	Methoxychlor	0.200000	751753	-2.8	20.0		
18.96	18.89	19.03	61947	1574194	Endosulfan sulfate	0.040000	1548675	1.6	20.0		
19.24			725								
19.57	19.49	19.63	73315	1849761	Endrin Ketone	0.040000	1832870	0.9	20.0		
21.86	21.79	21.93	65274	1622138	Decachlorobiphenyl	0.040000	1631845	-0.6	20.0		

6/15/10

Data File: /chem/tracegc82.i/f100601d.b/054fSEQ-PEM4.d

Date : 02-JUN-2010 17:32

Client ID: PEMFJ

Instrument: tracegc82.i

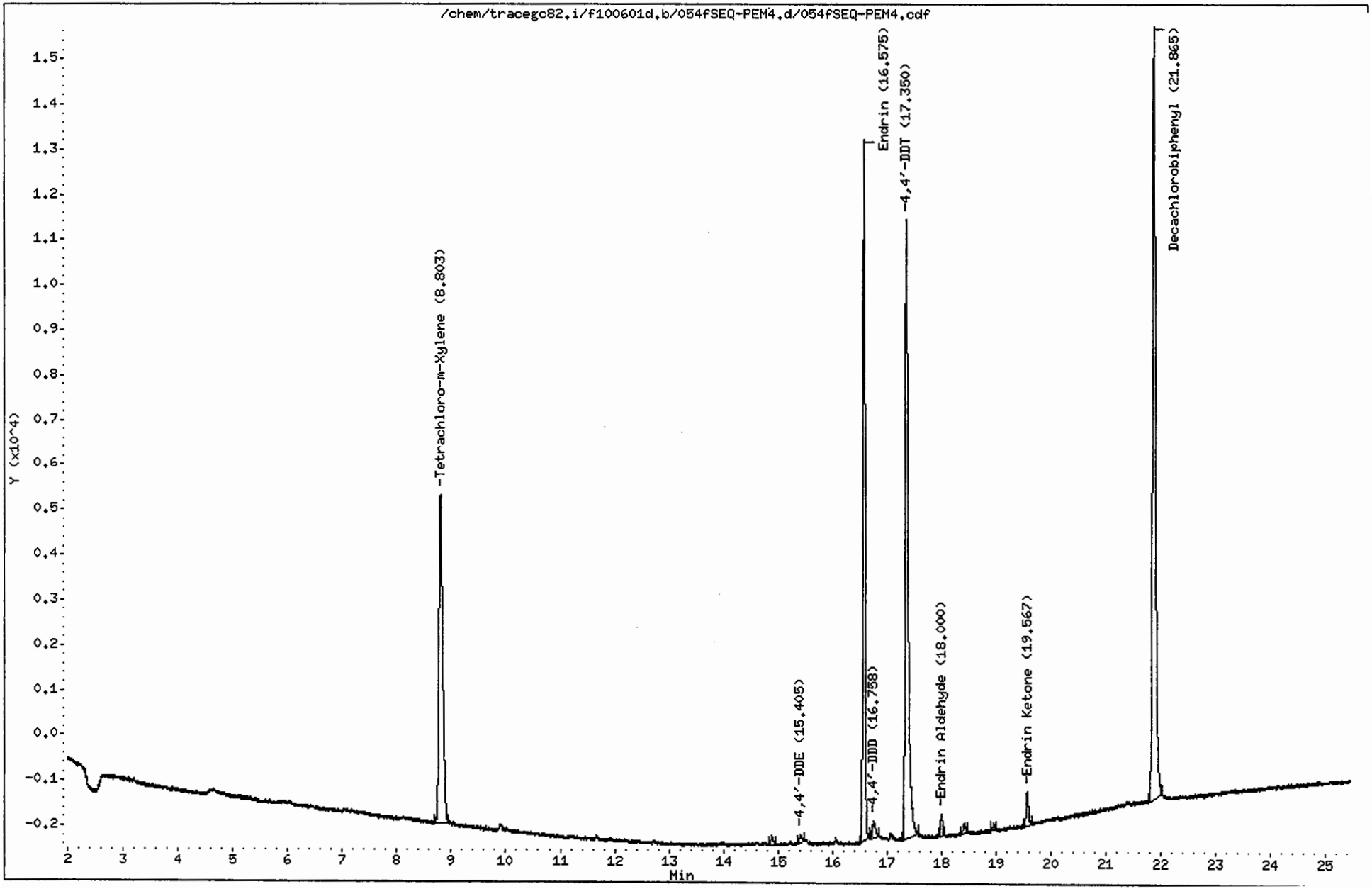
Sample Info: SEQ-PEM4

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM4 Client Smp Id : PEMFJ
Sample Type : SAMPLE Sublist : PEM
Inj Date : 02-JUN-2010 17:32 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PEMFJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.35			311								
1.43			508								
8.80	8.73	8.87	34915	1587700	Tetrachloro-m-Xylene	0.021991	0.021991		111.1	43 - 135	
14.89			656								
15.40	15.34	15.48	540	2012896	4,4'-DDE	0.000268	0.000268	0.020000			J
16.58	16.51	16.65	38789	1695798	Endrin	0.022874	0.022874	0.020000			
16.76	16.66	16.80	1422	1534440	4,4'-DDD	0.000927	0.000927	0.020000			J
17.35	17.27	17.41	49506	1722489	4,4'-DDT	0.028741	0.028741	0.020000			
18.00	17.93	18.07	1215	1371845	Endrin Aldehyde	0.000886	0.000886	0.020000			J
18.42			620								
18.95			365								
19.57	19.49	19.63	2217	1849761	Endrin Ketone	0.001199	0.001199	0.020000			J
21.86	21.79	21.93	64041	1622138	Decachlorobiphenyl	0.039479	0.039479		99.7	43 - 144	

7/9/7

Data File: /chem/tracegc82.i/f100601d_2C.b/053fSEQ-CCV4.d

Page 1

Date : 02-JUN-2010 17:03

Client ID: INDC3FJ

Instrument: tracegc82.i

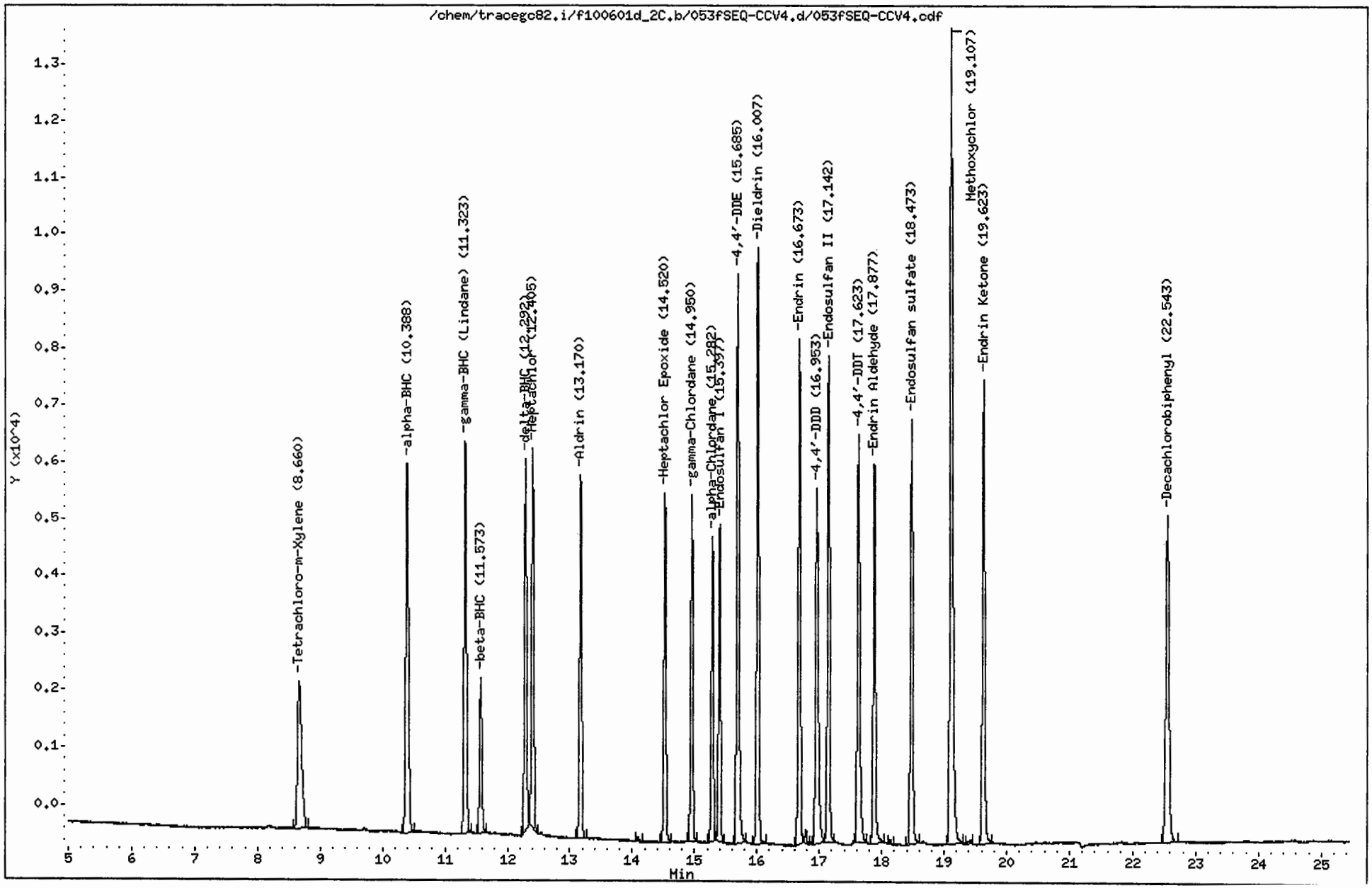
Sample Info: SEQ-CCV4

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV4 Client Smp Id : INDC3FJ
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 02-JUN-2010 17:03 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3FJ

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.35			483								
1.50			3280								
2.67			771								
8.66	8.59	8.73	11966	548876	Tetrachloro-m-Xylene	0.020000	598298	-9.0	20.0		
10.39	10.32	10.46	19419	916452	alpha-BHC	0.020000	970940	-5.9	20.0		
11.32	11.25	11.39	18080	866882	gamma-BHC (Lindane)	0.020000	903990	-4.3	20.0		
11.57	11.50	11.64	6842	347428	beta-BHC	0.020000	342115	1.5	20.0		
12.29	12.22	12.36	15370	827595	delta-BHC	0.020000	768503	7.1	20.0		
12.40	12.33	12.47	16353	778205	Heptachlor	0.020000	817627	-5.1	20.0		
13.17	13.10	13.24	15307	726628	Aldrin	0.020000	765370	-5.3	20.0		
14.10			226								
14.52	14.45	14.59	14229	683115	Heptachlor Epoxide	0.020000	711435	-4.1	20.0		
14.95	14.88	15.02	14209	690205	gamma-Chlordane	0.020000	710430	-2.9	20.0		
15.28	15.21	15.35	12163	595455	alpha-Chlordane	0.020000	608140	-2.1	20.0		
15.40	15.33	15.47	13052	638725	Endosulfan I	0.020000	652613	-2.2	20.0		
15.68	15.61	15.75	25403	617325	4,4'-DDE	0.040000	635073	-2.9	20.0		
16.01	15.94	16.08	24447	598394	Dieldrin	0.040000	611167	-2.1	20.0		
16.67	16.60	16.74	21002	524785	Endrin	0.040000	525041	0.0	20.0		
16.78			491								
16.95	16.87	17.01	18470	454222	4,4'-DDD	0.040000	461762	-1.7	20.0		
17.14	17.07	17.21	20673	526756	Endosulfan II	0.040000	516815	1.9	20.0		
17.62	17.55	17.69	19444	503765	4,4'-DDT	0.040000	486110	3.5	20.0		
17.88	17.81	17.95	16685	425754	Endrin Aldehyde	0.040000	417131	2.0	20.0		
18.13			148								
18.47	18.40	18.54	18501	479624	Endosulfan sulfate	0.040000	462523	3.6	20.0		
19.11	19.03	19.17	41510	208391	Methoxychlor	0.200000	207552	0.4	20.0		
19.39			223								
19.62	19.55	19.69	21024	535815	Endrin Ketone	0.040000	525588	1.9	20.0		
22.54	22.47	22.61	19906	497254	Decachlorobiphenyl	0.040000	497656	-0.1	20.0		

Data File: /chem/tracegc82.i/f100601d_2C.b/054fSEQ-PEM4.d

Date : 02-JUN-2010 17:32

Client ID: PEMFJ

Instrument: tracegc82.i

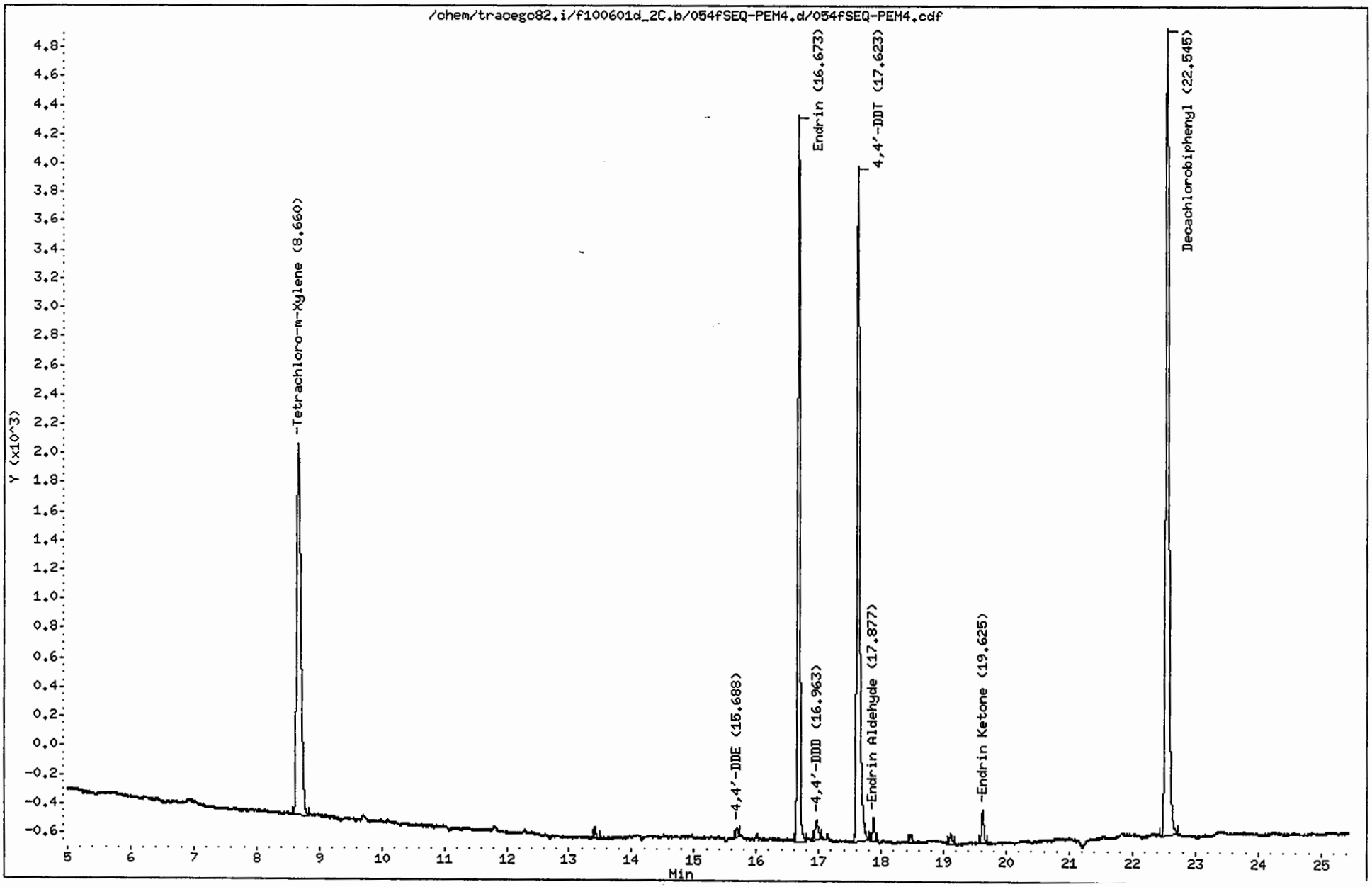
Sample Info: SEQ-PEM4

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM4 Client Smp Id : PEMFJ
Sample Type : SAMPLE Sublist : PEM
Inj Date : 02-JUN-2010 17:32 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : PEMFJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.35			684								
1.50			58786								
2.60			402								
8.66	8.59	8.73	11838	548876	Tetrachloro-m-Xylene	0.021567	0.021567		108.9	43 - 135	
13.42			179								
15.69	15.61	15.75	161	617325	4,4'-DDE	0.000262	0.000262	0.020000			J
16.67	16.60	16.74	12051	524785	Endrin	0.022963	0.022963	0.020000			
16.96	16.87	17.01	456	454222	4,4'-DDD	0.001005	0.001005	0.020000			J
17.62	17.55	17.69	14426	503765	4,4'-DDT	0.028636	0.028636	0.020000			
17.88	17.81	17.95	369	425754	Endrin Aldehyde	0.000866	0.000866	0.020000			J
18.47			127								
19.12			212								
19.62	19.55	19.69	573	535815	Endrin Ketone	0.001069	0.001069	0.020000			J
22.54	22.47	22.61	19763	497254	Decachlorobiphenyl	0.039743	0.039743		100.4	43 - 144	

Data File: /chem/tracegc82.i/f100601e.b/066fSEQ-CCV1.d

Page 1

Date : 02-JUN-2010 23:21

Client ID: INDC3FL

Instrument: tracegc82.i

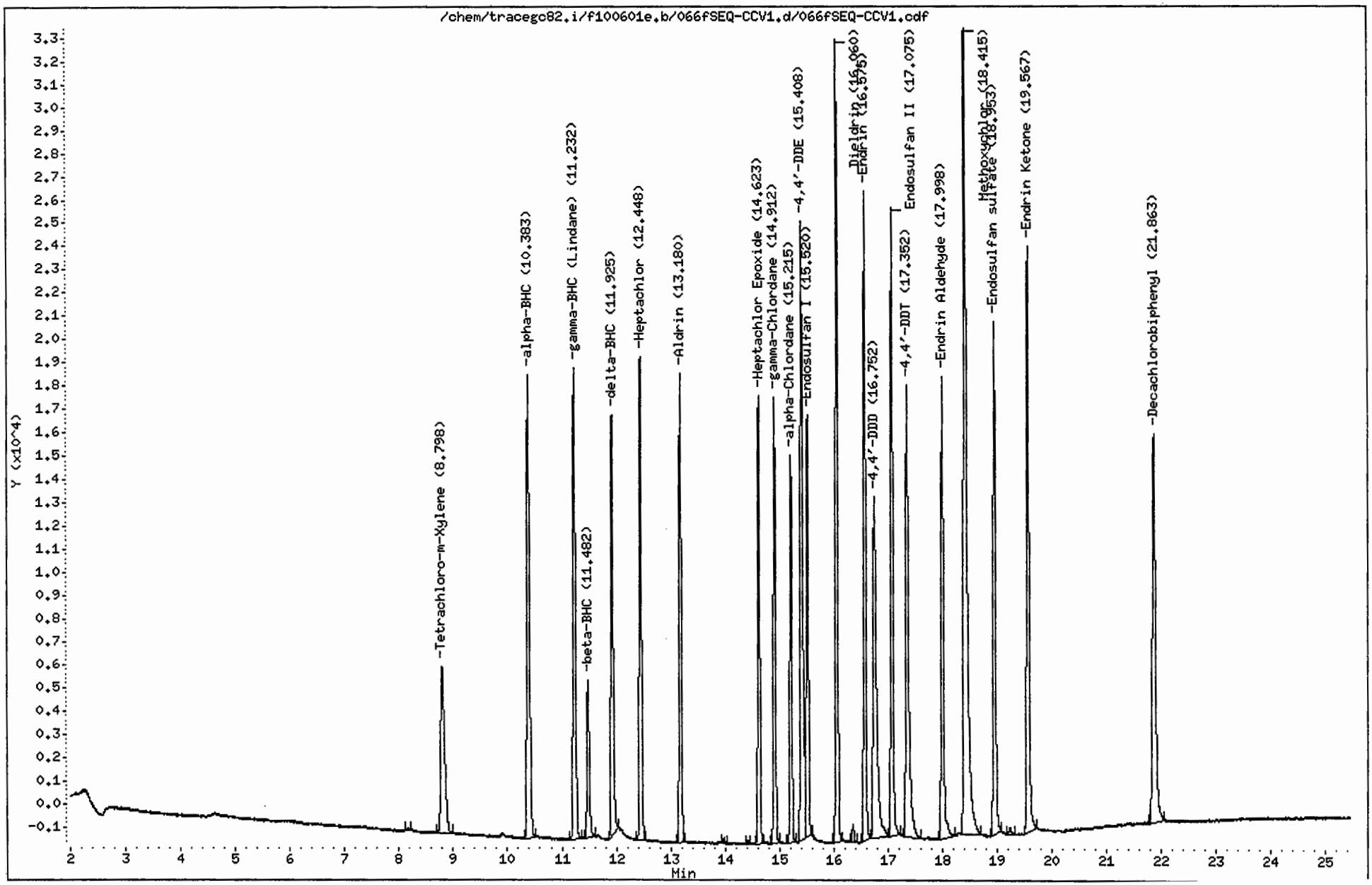
Sample Info: SEQ-CCV1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

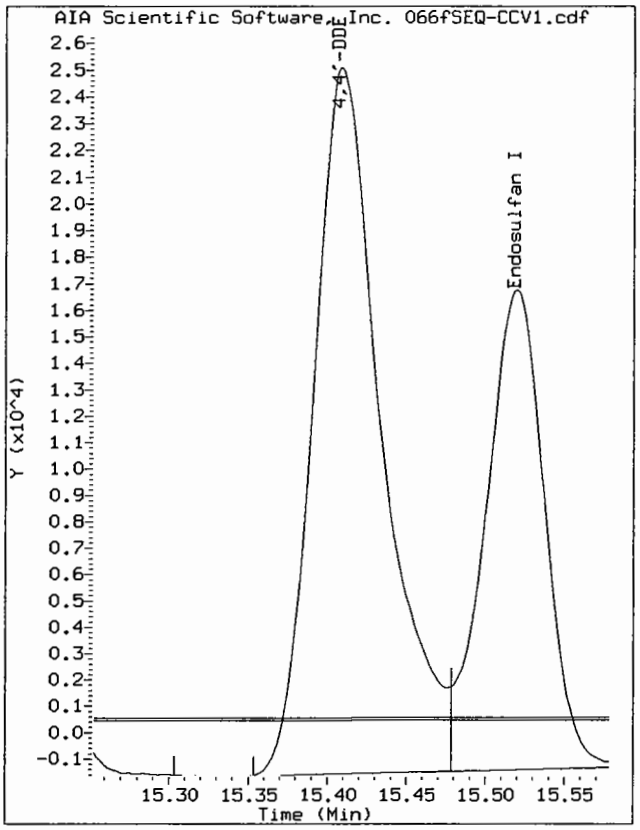
Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3FL
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 02-JUN-2010 23:21 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601e.b/8081A_clpestv6.m
Misc. Info : INDC3FL

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.04			446								
1.21			422								
1.23			385								
1.37			4583								
1.46			41289								
8.16			332								
8.80	8.73	8.87	35220	1587700	Tetrachloro-m-Xylene	0.020000	1761000	-10.9	20.0		
10.38	10.32	10.46	65372	3028788	alpha-BHC	0.020000	3268550	-7.9	20.0		
11.23	11.16	11.30	60102	2817265	gamma-BHC (Lindane)	0.020000	3005050	-6.7	20.0		
11.48	11.41	11.55	19874	1035150	beta-BHC	0.020000	993700	4.0	20.0		
11.92	11.85	11.99	50705	2721052	delta-BHC	0.020000	2535250	6.8	20.0		
12.45	12.38	12.52	55872	2589888	Heptachlor	0.020000	2793600	-7.9	20.0		
13.18	13.11	13.25	51954	2391920	Aldrin	0.020000	2597700	-8.6	20.0		
13.97			589								
14.41			413								
14.62	14.56	14.70	47186	2235460	Heptachlor Epoxide	0.020000	2359250	-5.5	20.0		
14.91	14.84	14.98	46666	2245768	gamma-Chlordane	0.020000	2333250	-3.9	20.0		
15.22	15.15	15.29	40500	1924148	alpha-Chlordane	0.020000	2025000	-5.2	20.0		
15.41	15.34	15.48	80266	2012896	4,4'-DDE	0.040000	2006650	0.3	20.0	M2	
15.52	15.45	15.59	47404	2067970	Endosulfan I	0.020000	2370150	-14.6	20.0	M2	
16.06	15.99	16.13	84927	2037205	Dieldrin	0.040000	2123175	-4.2	20.0		
16.36			1846								
16.58	16.51	16.65	70072	1695798	Endrin	0.040000	1751775	-3.3	20.0		
16.75	16.66	16.80	64961	1534440	4,4'-DDD	0.040000	1624025	-5.8	20.0		
17.08	17.01	17.15	69732	1759840	Endosulfan II	0.040000	1743275	0.9	20.0		
17.35	17.27	17.41	67675	1722489	4,4'-DDT	0.040000	1691850	1.8	20.0		
18.00	17.93	18.07	56515	1371845	Endrin Aldehyde	0.040000	1412850	-3.0	20.0		
18.42	18.33	18.47	143008	731447	Methoxychlor	0.200000	715035	2.2	20.0		
18.95	18.89	19.03	60375	1574194	Endosulfan sulfate	0.040000	1509350	4.1	20.0		
19.24			967								
19.57	19.49	19.63	72431	1849761	Endrin Ketone	0.040000	1810750	2.1	20.0		
21.86	21.79	21.93	65002	1622138	Decachlorobiphenyl	0.040000	1625050	-0.2	20.0		

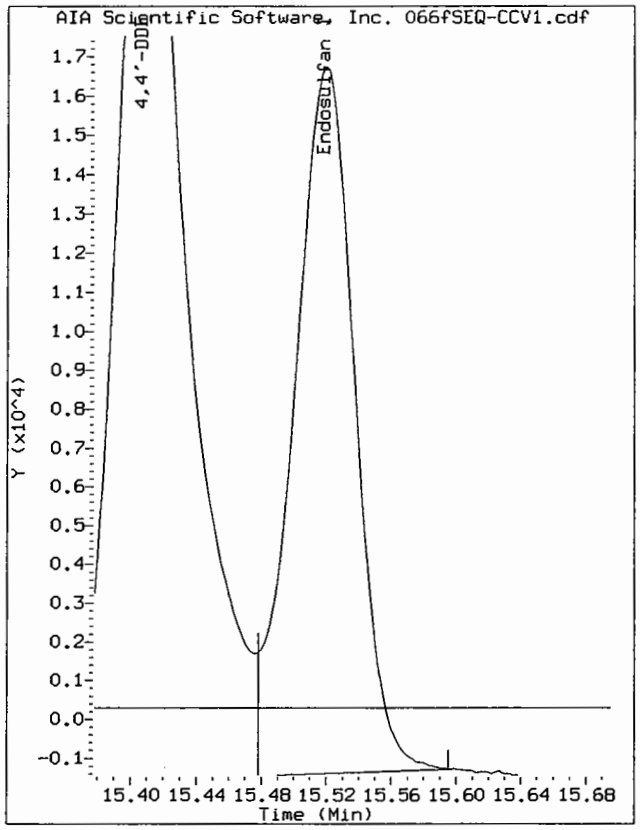
M2 } pw 6/3/10

(6/4)

Manually Integrated Peaks

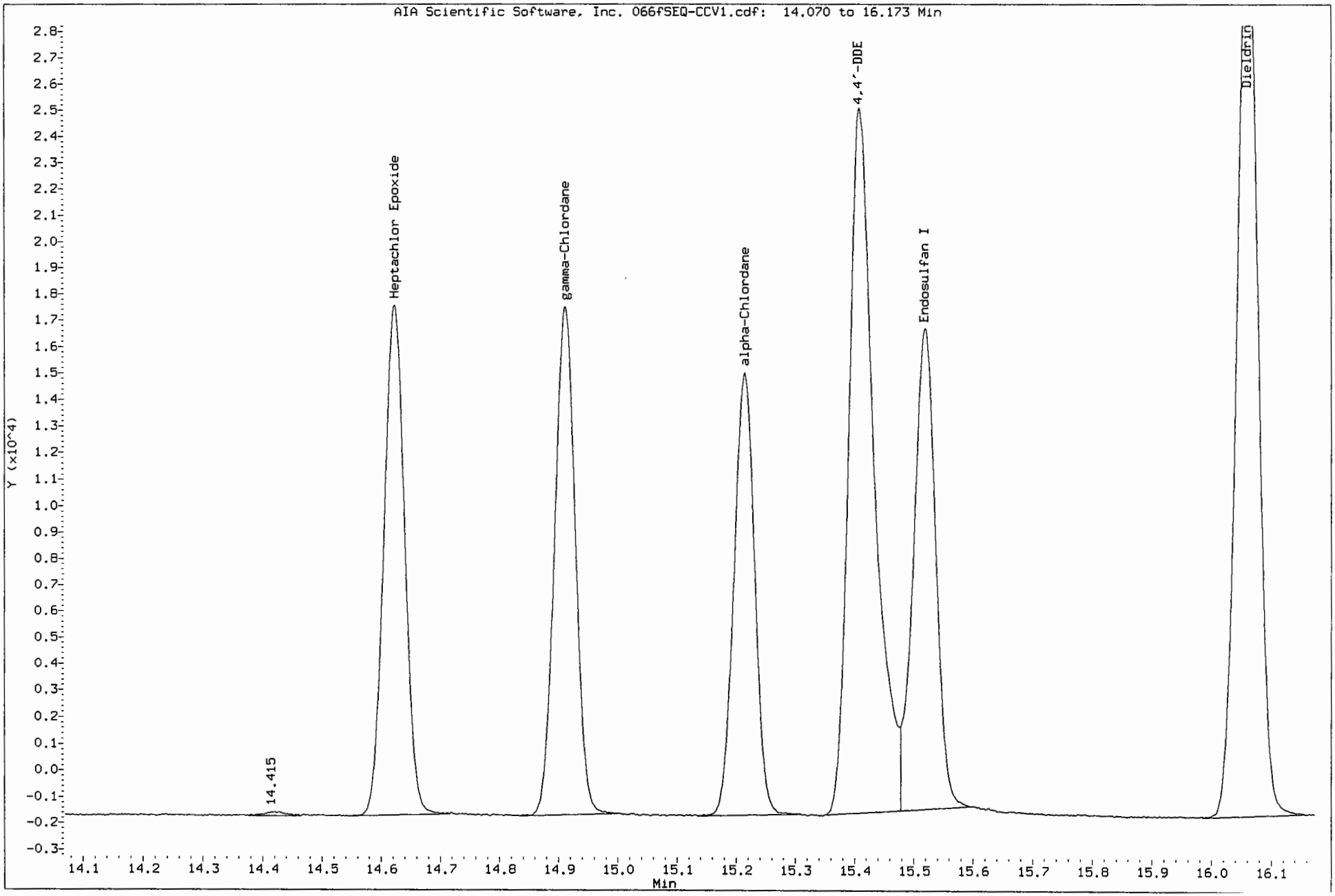


Start: 15.35 Stop: 15.48



Start: 15.48 Stop: 15.60

Data File: /chem/tracegc82.i/f100601e.b/066fSEQ-CCV1.d/066fSEQ-CCV1.cdf
Injection Date: 02-JUN-2010 23:21
Instrument: tracegc82.i
Client Sample ID: INDC3FL



Data File: /chem/tracegc82.i/f100601e.b/067fSEQ-PEM1.d

Date : 02-JUN-2010 23:51

Client ID: PEMFL

Instrument: tracegc82.i

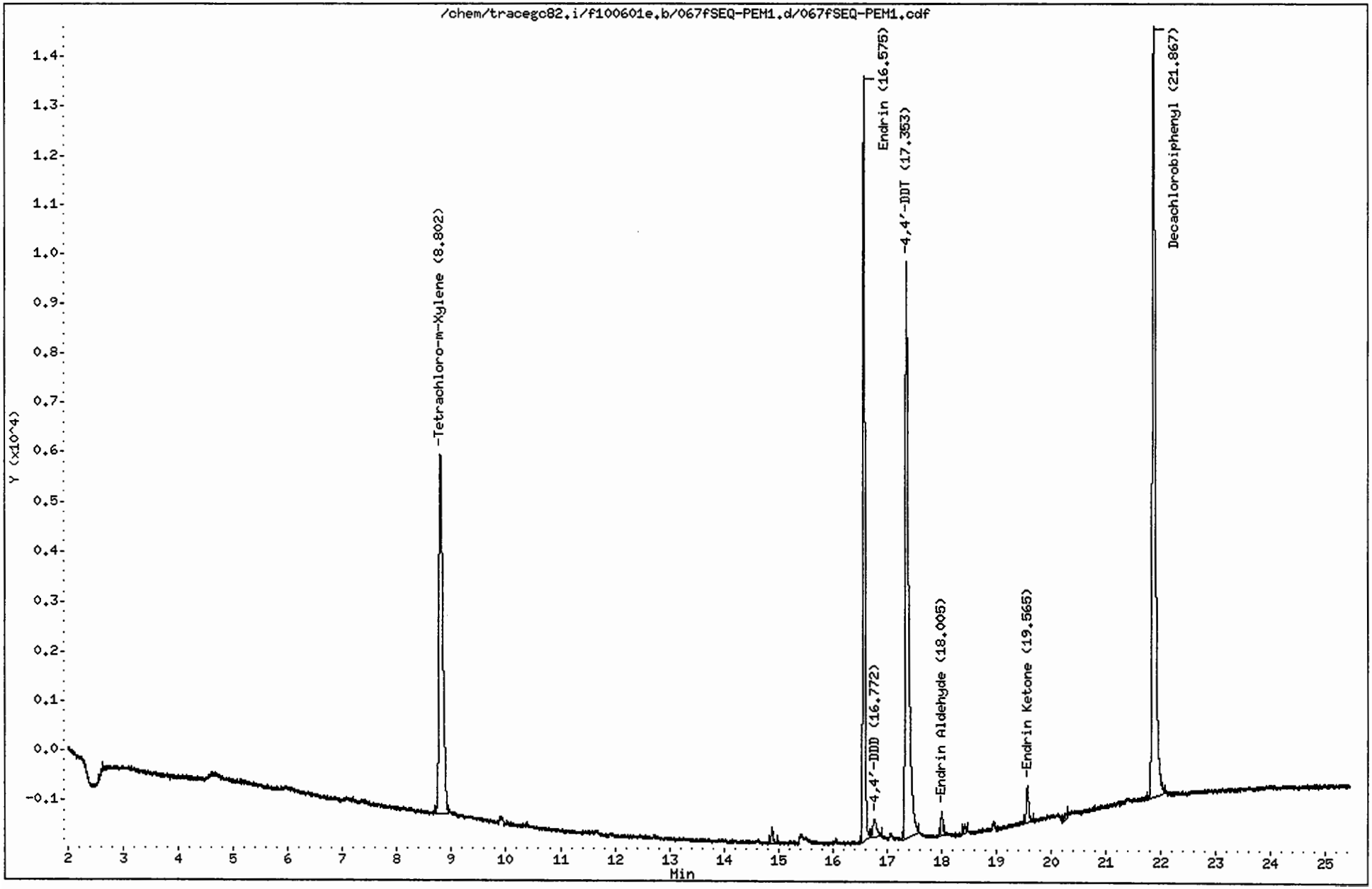
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMFL
Sample Type : SAMPLE Sublist : PEM
Inj Date : 02-JUN-2010 23:51 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601e.b/8081A_clpestv6.m
Misc. Info : PEMFL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.86			321								
1.04			321								
1.24			409								
1.29			830								
1.37			3371								
1.44			33487								
2.63			313								
8.80	8.73	8.87	35496	1587700	Tetrachloro-m-Xylene	0.022357	0.022357		112.9	43 - 135	
14.89			941								
16.58	16.51	16.65	39251	1695798	Endrin	0.023146	0.023146	0.020000			
16.77	16.66	16.80	1838	1534440	4,4'-DDD	0.001198	0.001198	0.020000			J
17.35	17.27	17.41	47445	1722489	4,4'-DDT	0.027545	0.027545	0.020000			
18.00	17.93	18.07	1227	1371845	Endrin Aldehyde	0.000894	0.000894	0.020000			J
18.43			463								
19.56	19.49	19.63	2134	1849761	Endrin Ketone	0.001154	0.001154	0.020000			J
20.28			458								
21.87	21.79	21.93	60907	1622138	Decachlorobiphenyl	0.037548	0.037548		94.8	43 - 144	

Data File: /chem/tracegc82.i/f100601e_2C.b/066fSEQ-CCV1.d

Date : 02-JUN-2010 23:21

Client ID: INDC3FL

Sample Info: SEQ-CCV1

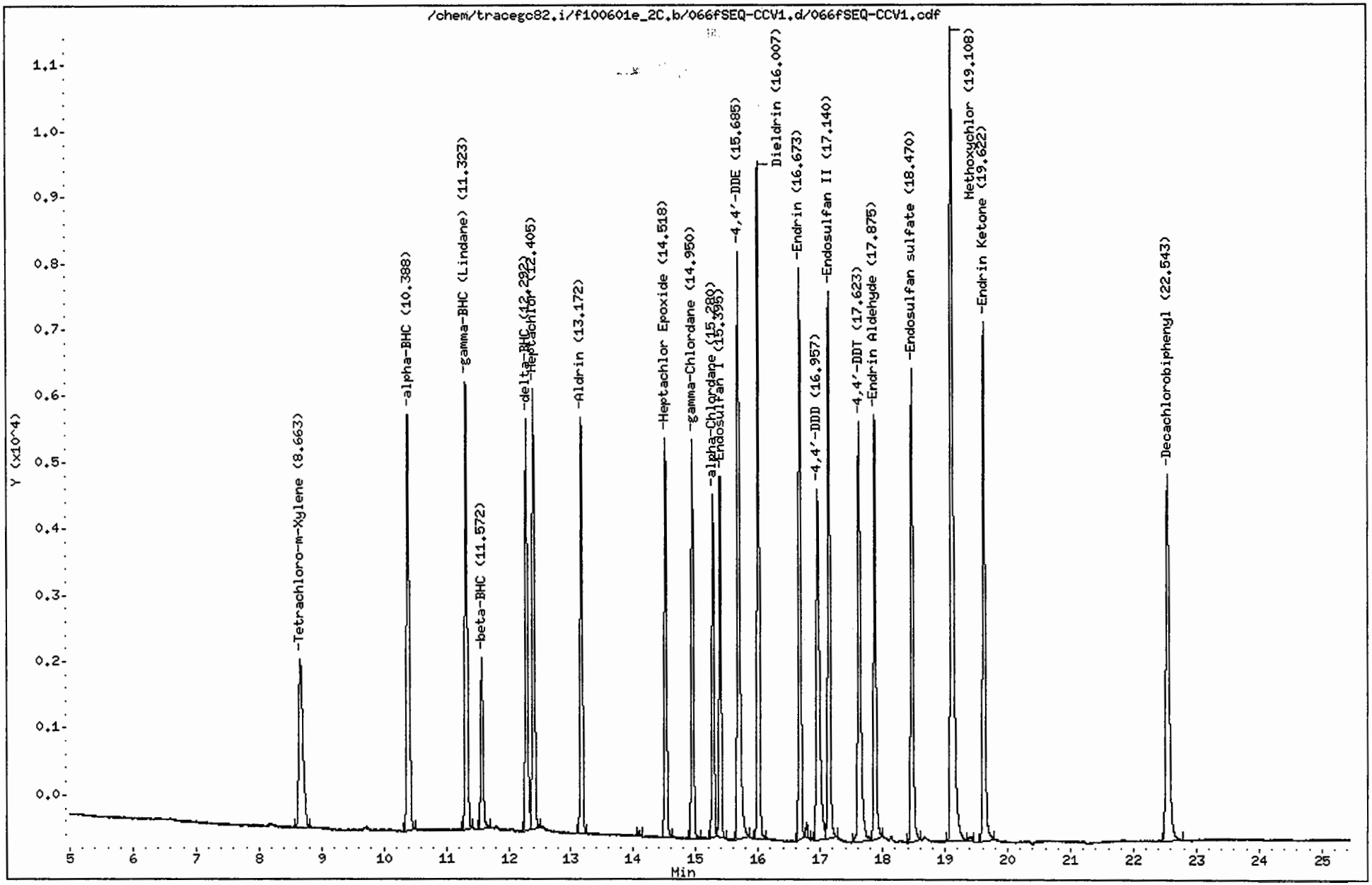
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3FL
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 02-JUN-2010 23:21 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601e_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3FL

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
1.36			700								
1.51			75692								
2.66			544								
8.66	8.59	8.73	11738	548876	Tetrachloro-m-Xylene	0.020000	586925	-6.9	20.0		
10.39	10.32	10.46	18962	916452	alpha-BHC	0.020000	948105	-3.5	20.0		
11.32	11.25	11.39	17692	866882	gamma-BHC (Lindane)	0.020000	884580	-2.0	20.0		
11.57	11.50	11.64	6748	347428	beta-BHC	0.020000	337383	2.9	20.0		
12.29	12.22	12.36	15374	827595	delta-BHC	0.020000	768703	7.1	20.0		
12.40	12.33	12.47	17005	778205	Heptachlor	0.020000	850263	-9.3	20.0		
13.17	13.10	13.24	15114	726628	Aldrin	0.020000	755720	-4.0	20.0		
14.09			173								
14.52	14.45	14.59	14014	683115	Heptachlor Epoxide	0.020000	700685	-2.6	20.0		
14.95	14.88	15.02	14147	690205	gamma-Chlordane	0.020000	707335	-2.5	20.0		
15.28	15.21	15.35	11984	595455	alpha-Chlordane	0.020000	599187	-0.6	20.0		
15.40	15.33	15.47	12858	638725	Endosulfan I	0.020000	642885	-0.7	20.0		
15.68	15.61	15.75	25432	617325	4,4'-DDE	0.040000	635799	-3.0	20.0		
16.01	15.94	16.08	24151	598394	Dieldrin	0.040000	603774	-0.9	20.0		
16.67	16.60	16.74	20593	524785	Endrin	0.040000	514835	1.9	20.0		
16.78			458								
16.96	16.87	17.01	18493	454222	4,4'-DDD	0.040000	462325	-1.8	20.0		
17.14	17.07	17.21	20683	526756	Endosulfan II	0.040000	517077	1.8	20.0		
17.62	17.55	17.69	19587	503765	4,4'-DDT	0.040000	489675	2.8	20.0		
17.88	17.81	17.95	16041	425754	Endrin Aldehyde	0.040000	401030	5.8	20.0		
18.47	18.40	18.54	18380	479624	Endosulfan sulfate	0.040000	459496	4.2	20.0		
19.11	19.03	19.17	40303	208391	Methoxychlor	0.200000	201516	3.3	20.0		
19.39			246								
19.62	19.55	19.69	20933	535815	Endrin Ketone	0.040000	523330	2.3	20.0		
22.54	22.47	22.61	20332	497254	Decachlorobiphenyl	0.040000	508297	-2.2	20.0		

6/4/10

Data File: /chem/tracegc82.i/f100601e_2C.b/067fSEQ-PEM1.d

Page 1

Date : 02-JUN-2010 23:51

Client ID: PEMFL

Instrument: tracegc82.i

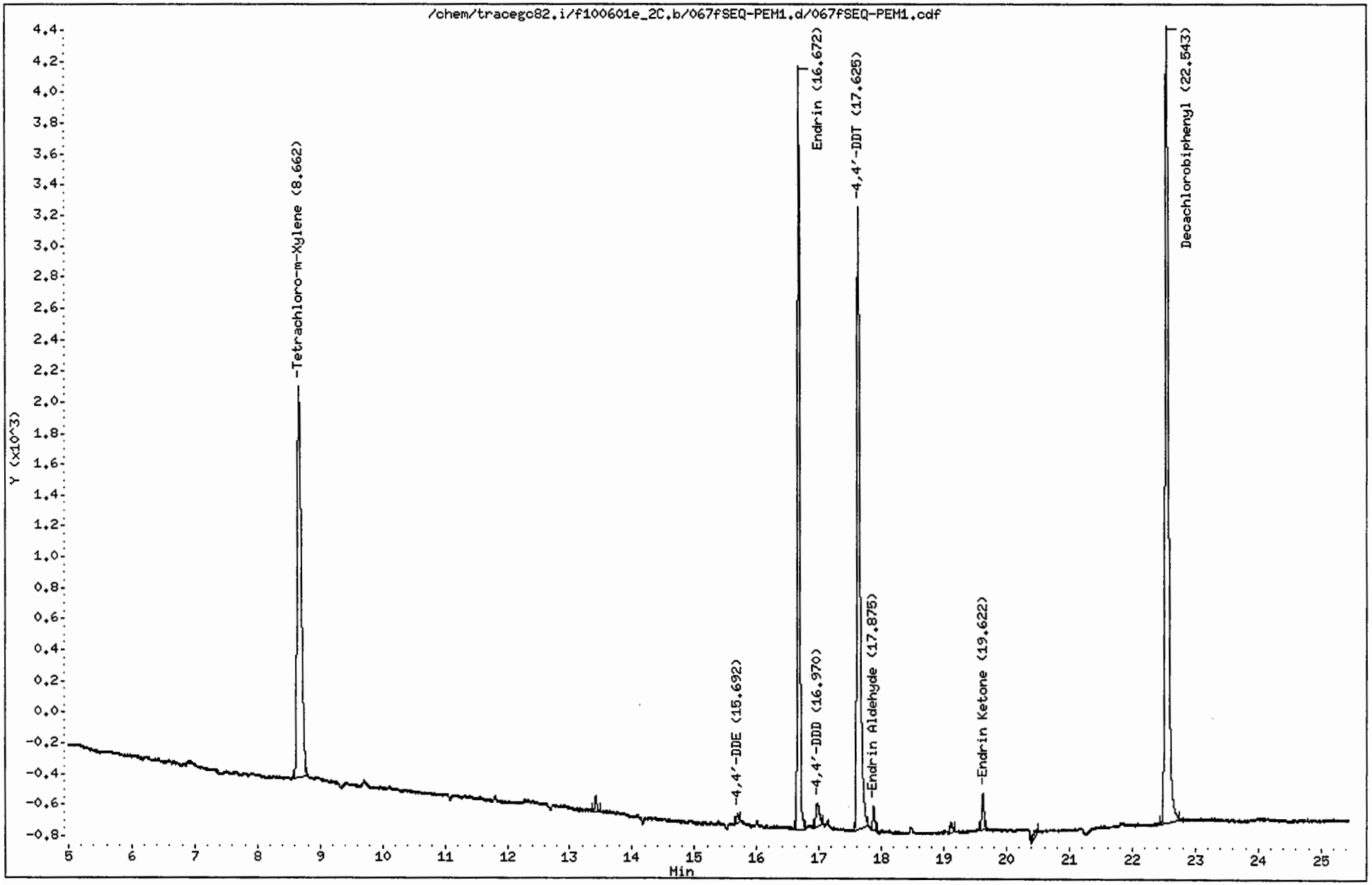
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMFL
Sample Type : SAMPLE Sublist : PEM
Inj Date : 02-JUN-2010 23:51 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601e_2C.b/8081A_clpest2v6.m
Misc. Info : PEMFL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.35			468								
1.49			61495								
2.59			376								
8.66	8.59	8.73	11689	548876	Tetrachloro-m-Xylene	0.021296	0.021296		107.6	43 - 135	
13.41			251								
15.69	15.61	15.75	138	617325	4,4'-DDE	0.000224	0.000224	0.020000			J
16.67	16.60	16.74	12088	524785	Endrin	0.023034	0.023034	0.020000			
16.97	16.87	17.01	595	454222	4,4'-DDD	0.001310	0.001310	0.020000			J
17.62	17.55	17.69	13651	503765	4,4'-DDT	0.027097	0.027097	0.020000			
17.88	17.81	17.95	374	425754	Endrin Aldehyde	0.000877	0.000877	0.020000			J
19.11			165								
19.62	19.55	19.69	568	535815	Endrin Ketone	0.001061	0.001061	0.020000			J
20.48			212								
22.54	22.47	22.61	19069	497254	Decachlorobiphenyl	0.038349	0.038349		96.8	43 - 144	

6/3/10

Manual Integrations							
SDG:							
Sample(s)	SEQ-CCV1						
Compound							
alpha-BHC							
gamma-BHC							
beta-BHC							
delta-BHC							
Heptachlor							
Aldrin							
Heptachlor Epoxide							
gamma-Chlordane							
alpha-Chlordane							
Endosulfan I	x						
4,4'-DDE	x						
Dieldrin							
Endrin							
4,4'-DDD							
Endosulfan II							
4,4'-DDT							
Endrin Aldehyde							
Endosulfan sulfate							
Methoxychlor							
Endrin Ketone							
Toxaphene							
Technical Chordane							
Tetrachloro-m-xylene							
Decachlorbiphenyl							
"X" Denotes a manual integration for the compound							

Data File: /chem/tracegc82.i/f100601g.b/092fSEQ-CCV3.d

Page 1

Date : 03-JUN-2010 13:08

Client ID: INDC3FP

Instrument: tracegc82.i

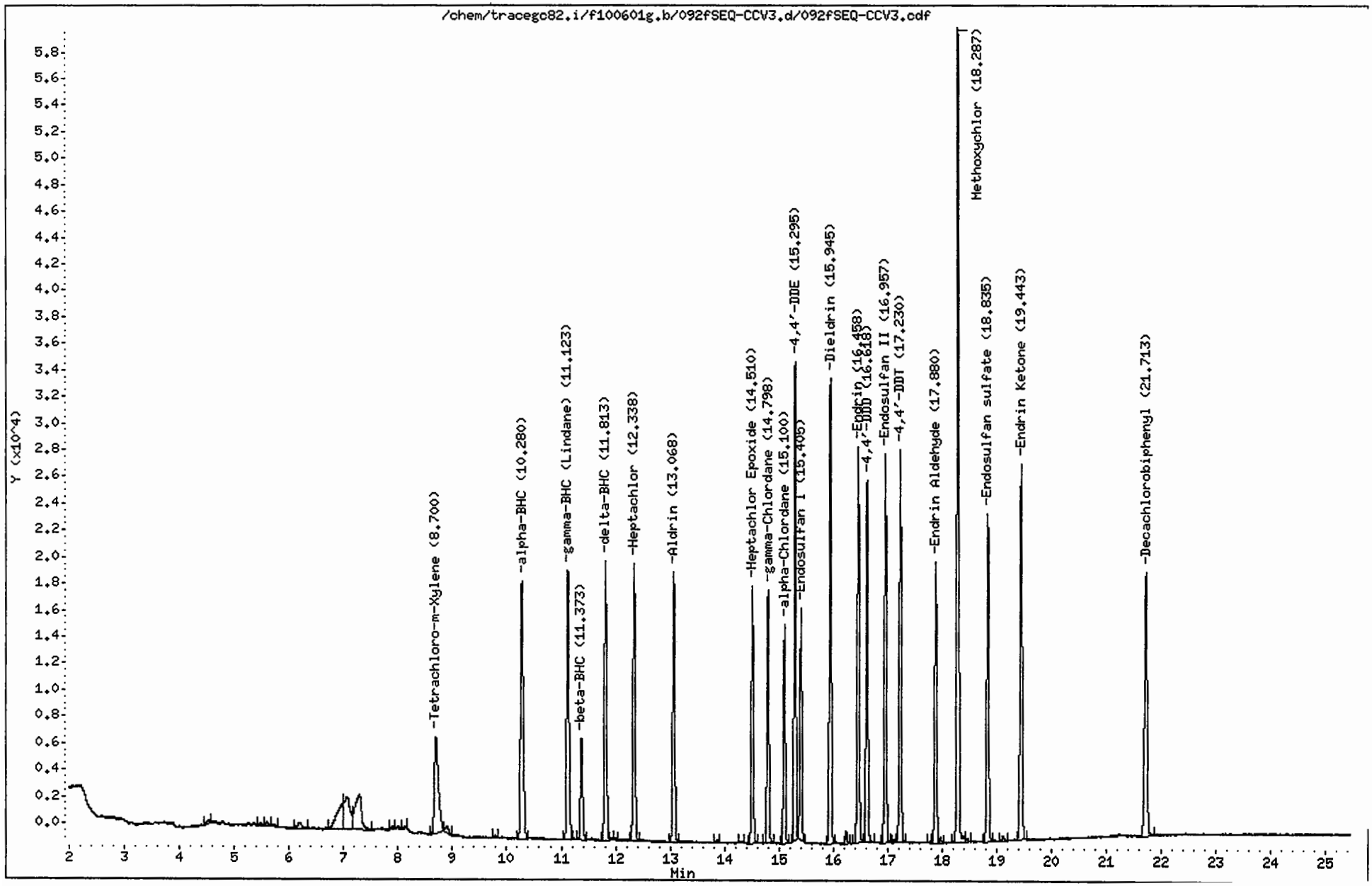
Sample Info: SEQ-CCV3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3FP
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 03-JUN-2010 13:08 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : INDC3FP

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
0.45			622								
1.41			66715								
4.52			935								
5.47			669								
5.60			917								
5.70			682								
6.20			2614								
7.00			16533								
7.07			17800								
7.29			21996								
7.90			620								
8.11			499								
8.70	8.63	8.77	35928	1587700	Tetrachloro-m-Xylene	0.020000	1796400	-13.1	20.0		
8.90			1656								
9.80			496								
10.28	10.21	10.35	64432	3028788	alpha-BHC	0.020000	3221550	-6.4	20.0		
11.12	11.05	11.19	59178	2817265	gamma-BHC (Lindane)	0.020000	2958850	-5.0	20.0		
11.37	11.30	11.44	21461	1035150	beta-BHC	0.020000	1073000	-3.7	20.0		
11.81	11.74	11.88	56066	2721052	delta-BHC	0.020000	2803300	-3.0	20.0		
11.99			422								
12.34	12.27	12.41	55038	2589888	Heptachlor	0.020000	2751850	-6.3	20.0		
13.07	13.00	13.14	50822	2391920	Aldrin	0.020000	2541100	-6.2	20.0		
13.86			602								
14.30			351								
14.51	14.44	14.58	46622	2235460	Heptachlor Epoxide	0.020000	2331050	-4.3	20.0		
14.80	14.73	14.87	46117	2245768	gamma-Chlordane	0.020000	2305850	-2.7	20.0		
15.10	15.03	15.17	38737	1924148	alpha-Chlordane	0.020000	1936800	-0.7	20.0		
15.30	15.23	15.37	81704	2012896	4,4'-DDE	0.040000	2042575	-1.5	20.0		
15.40	15.33	15.47	42015	2067970	Endosulfan I	0.020000	2100750	-1.6	20.0		
15.94	15.87	16.01	84521	2037205	Dieldrin	0.040000	2113025	-3.7	20.0		
16.24			2138								
16.46	16.39	16.53	72848	1695798	Endrin	0.040000	1821200	-7.4	20.0		
16.62	16.55	16.69	63146	1534440	4,4'-DDD	0.040000	1578650	-2.9	20.0		
16.96	16.89	17.03	71354	1759840	Endosulfan II	0.040000	1783850	-1.4	20.0		
17.11			662								
17.23	17.16	17.30	70020	1722489	4,4'-DDT	0.040000	1750475	-1.6	20.0		
17.75			313								
17.88	17.81	17.95	51680	1371845	Endrin Aldehyde	0.040000	1292000	5.8	20.0		
17.97			1139								
18.29	18.22	18.36	151575	731447	Methoxychlor	0.200000	757870	-3.6	20.0		
18.46			703								
18.84	18.77	18.91	62460	1574194	Endosulfan sulfate	0.040000	1561475	0.8	20.0		

CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3FP
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 03-JUN-2010 13:08 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : INDC3FP

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
19.12		1162								
19.44	19.37 19.51	73050	1849761	Endrin Ketone	0.040000	1826225	1.3	20.0		
21.71	21.64 21.78	63009	1622138	Decachlorobiphenyl	0.040000	1575200	2.9	20.0		

Data File: /chem/tracegc82.i/f100601g.b/094fSEQ-PEM3.d

Date : 03-JUN-2010 14:26

Client ID: PEMFP

Instrument: tracegc82.i

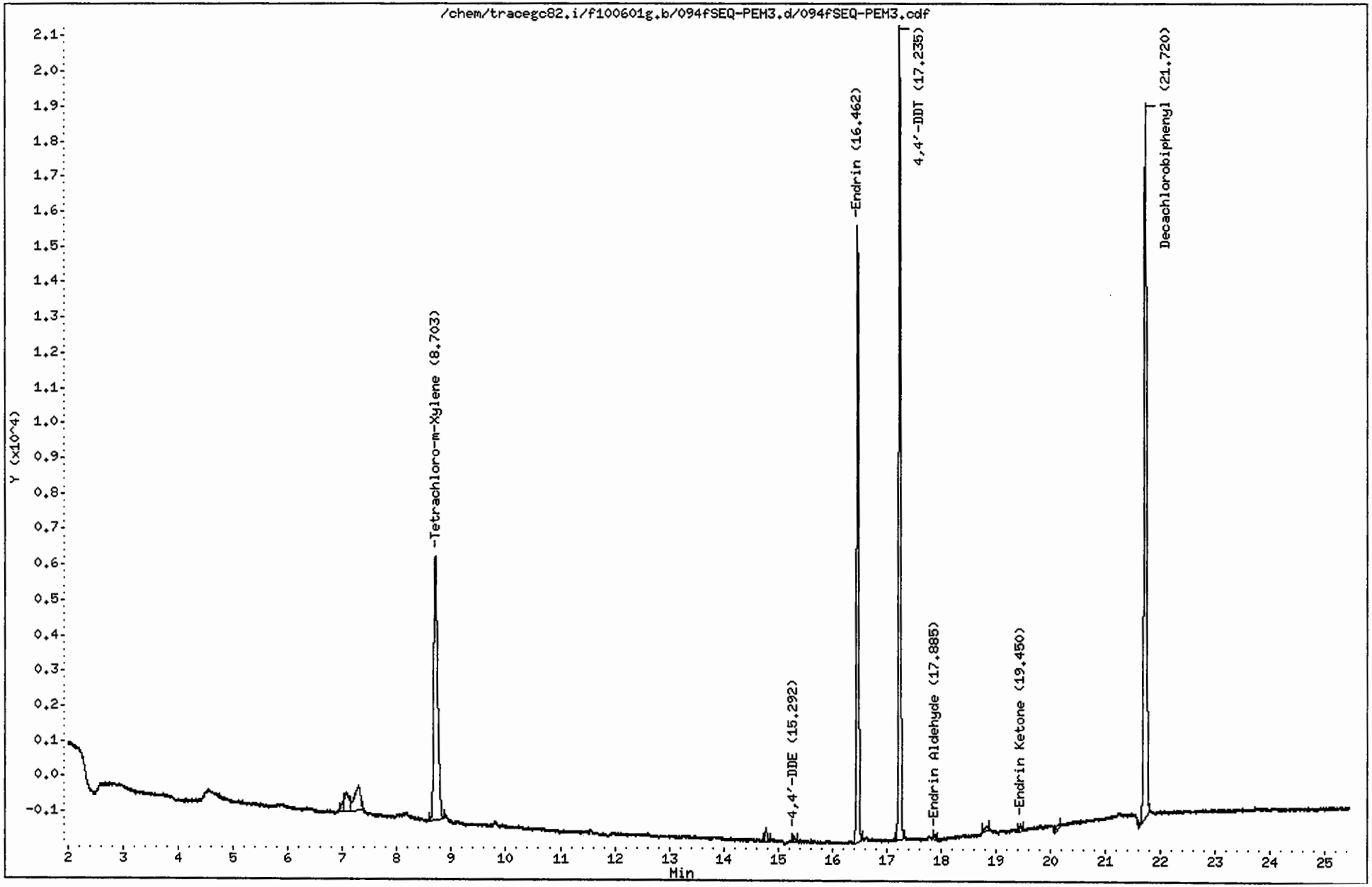
Sample Info: SEQ-PEM3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMFP
Sample Type : SAMPLE Sublist : PEM
Inj Date : 03-JUN-2010 14:26 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : PEMFP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.04			476								
1.21			395								
1.26			570								
1.36			4369								
1.42			43586								
7.01			748								
7.08			3233								
7.30			5265								
8.70	8.63	8.77	36848	1587700	Tetrachloro-m-Xylene	0.023209	0.023209		117.2	43 - 135	
14.78			959								
15.29	15.23	15.37	497	2012896	4,4'-DDE	0.000247	0.000247	0.020000			J
16.46	16.39	16.53	43005	1695798	Endrin	0.025360	0.025360	0.020000			
17.24	17.16	17.30	54910	1722489	4,4'-DDT	0.031878	0.031878	0.020000			
17.88	17.81	17.95	482	1371845	Endrin Aldehyde	0.000351	0.000351	0.020000			J
18.84			475								
19.45	19.37	19.51	548	1849761	Endrin Ketone	0.000296	0.000296	0.020000			J
20.14			436								
21.72	21.64	21.78	64825	1622138	Decachlorobiphenyl	0.039963	0.039963		100.9	43 - 144	

Data File: /chem/tracegc82.i/f100601g_2C.b/092fSEQ-CCV3.d

Date : 03-JUN-2010 13:08

Client ID: INDC3FP

Sample Info: SEQ-CCV3

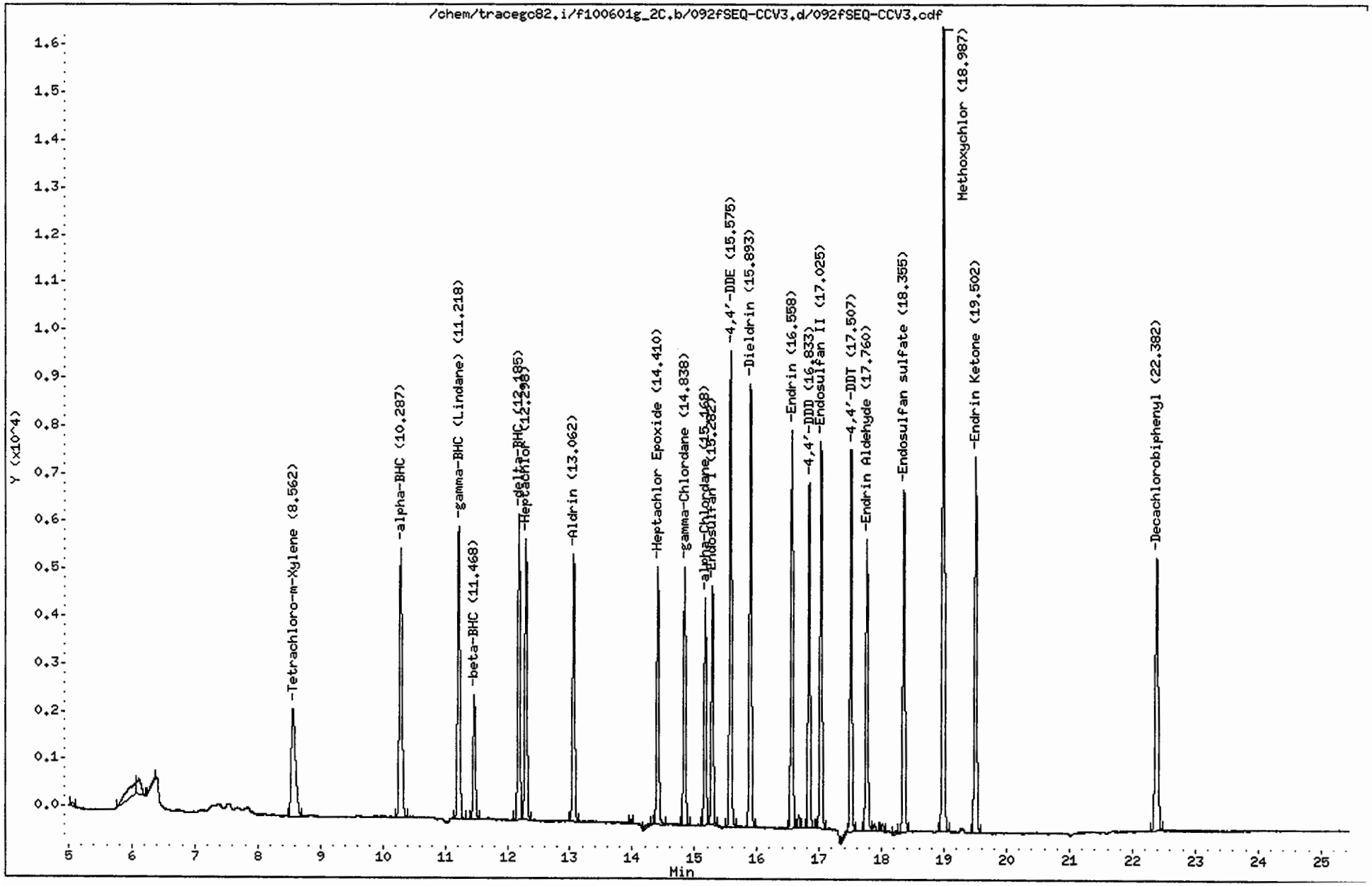
Volume Injected (uL): 1.0

Column phase: clpest2

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV3 Client Smp Id : INDC3FP
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 03-JUN-2010 13:08 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3FP

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
0.51			210								
1.04			458								
1.44			114999								
5.06			297								
6.07			2815								
6.11			1476								
6.37			325								
8.56	8.49	8.63	10501	548876	Tetrachloro-m-Xylene	0.020000	525050	4.3	20.0		
10.29	10.22	10.36	16832	916452	alpha-BHC	0.020000	841550	8.2	20.0		
11.22	11.15	11.29	15860	866882	gamma-BHC (Lindane)	0.020000	793000	8.5	20.0		
11.47	11.40	11.54	6486	347428	beta-BHC	0.020000	324250	6.7	20.0		
12.18	12.11	12.25	14852	827595	delta-BHC	0.020000	742600	10.3	20.0		
12.30	12.23	12.37	14488	778205	Heptachlor	0.020000	724350	6.9	20.0		
13.06	12.99	13.13	13346	726628	Aldrin	0.020000	667250	8.2	20.0		
13.99			150								
14.24			299								
14.41	14.34	14.48	12607	683115	Heptachlor Epoxide	0.020000	630350	7.7	20.0		
14.84	14.77	14.91	12498	690205	gamma-Chlordane	0.020000	624900	9.5	20.0		
15.17	15.10	15.24	10812	595455	alpha-Chlordane	0.020000	540550	9.2	20.0		
15.28	15.21	15.35	11597	638725	Endosulfan I	0.020000	579850	9.2	20.0		
15.58	15.51	15.65	22054	617325	4,4'-DDE	0.040000	551325	10.7	20.0		
15.89	15.82	15.96	21677	598394	Dieldrin	0.040000	541900	9.4	20.0		
16.56	16.49	16.63	19598	524785	Endrin	0.040000	489925	6.6	20.0		
16.67			554								
16.83	16.76	16.90	16208	454222	4,4'-DDD	0.040000	405175	10.8	20.0		
17.02	16.95	17.09	18992	526756	Endosulfan II	0.040000	474800	9.9	20.0		
17.43			322								
17.51	17.44	17.58	17842	503765	4,4'-DDT	0.040000	446050	11.5	20.0		
17.76	17.69	17.83	14569	425754	Endrin Aldehyde	0.040000	364200	14.5	20.0		
17.89			349								
18.02			350								
18.25			181								
18.36	18.29	18.43	17187	479624	Endosulfan sulfate	0.040000	429650	10.4	20.0		
18.99	18.92	19.06	38616	208391	Methoxychlor	0.200000	193075	7.3	20.0		
19.50	19.43	19.57	19195	535815	Endrin Ketone	0.040000	479875	10.4	20.0		
22.38	22.31	22.45	17966	497254	Decachlorobiphenyl	0.040000	449125	9.7	20.0		

Data File: /chem/tracegc82.i/f100601g_2C.b/094fSEQ-PEM3.d

Date : 03-JUN-2010 14:26

Client ID: PEMFP

Instrument: tracegc82.i

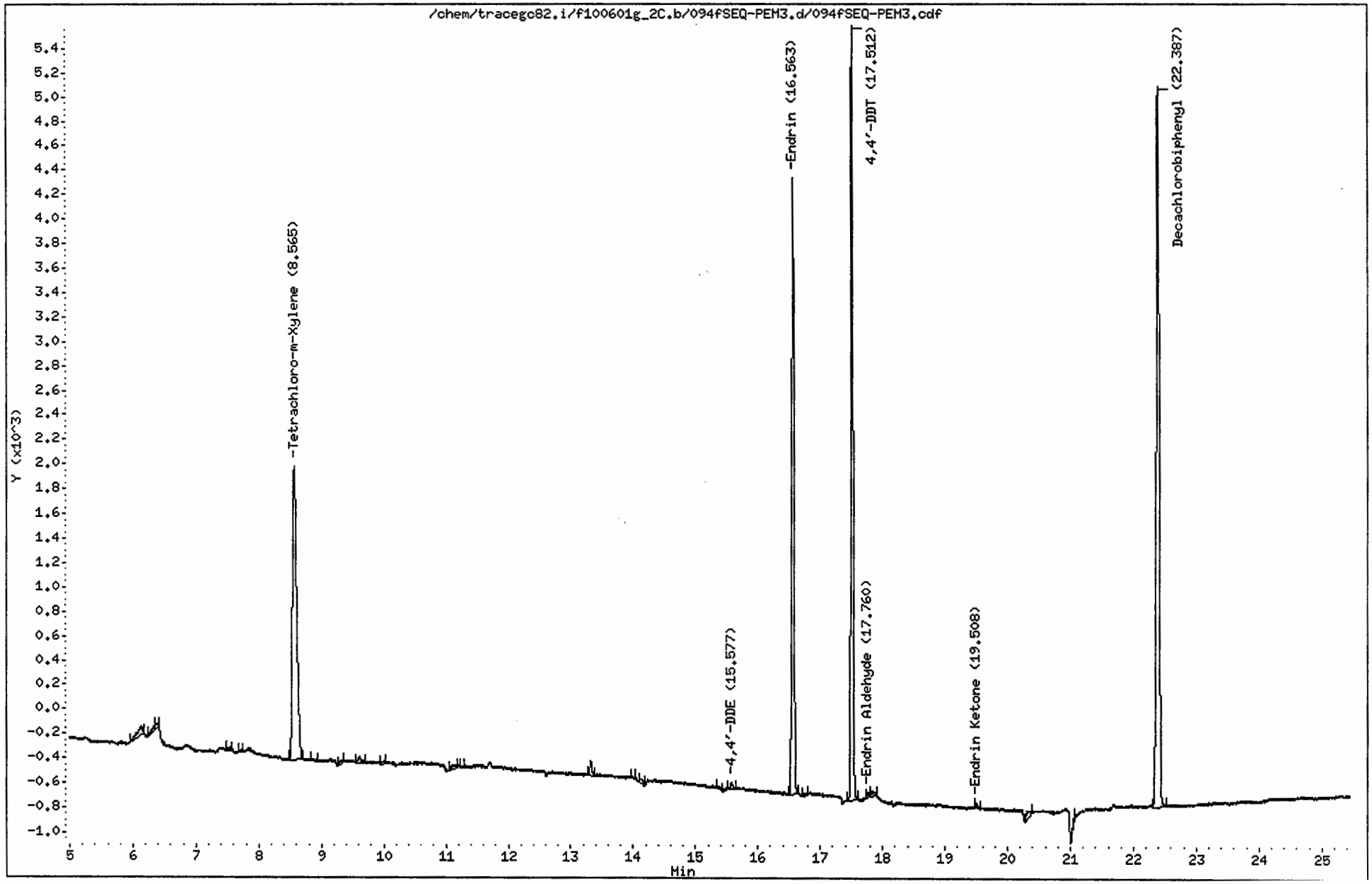
Sample Info: SEQ-PEM3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM3 Client Smp Id : PEMFP
Sample Type : SAMPLE Sublist : PEM
Inj Date : 03-JUN-2010 14:26 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : PEMFP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.08			93								
1.06			67								
1.34			248								
1.46			4511								
2.54			194								
6.13			361								
6.34			114								
6.37			144								
7.54			72								
7.70			42								
8.56	8.49	8.63	11240	548876	Tetrachloro-m-Xylene	0.020479	0.020479		103.4	43 - 135	
8.86			51								
9.31			68								
9.61			170								
9.99			73								
11.11			125								
11.23			41								
13.32			265								
13.98			42								
14.12			147								
15.36			95								
15.58	15.51	15.65	156	617325	4,4'-DDE	0.000252	0.000252	0.020000			J
16.56	16.49	16.63	11924	524785	Endrin	0.022722	0.022722	0.020000			
16.73			59								
17.51	17.44	17.58	14363	503765	4,4'-DDT	0.028512	0.028512	0.020000			
17.76	17.69	17.83	111	425754	Endrin Aldehyde	0.000261	0.000261	0.020000			J
17.83			175								
19.51	19.43	19.57	90	535815	Endrin Ketone	0.000168	0.000168	0.020000			J
20.32			230								
21.07			149								
22.39	22.31	22.45	18451	497254	Decachlorobiphenyl	0.037107	0.037107		93.7	43 - 144	

Data File: /chem/tracegc82.i/f100601h.b/101fSEQ-CCV1.d

Page 1

Date : 03-JUN-2010 18:37

Client ID: INDC3FR

Instrument: tracegc82.i

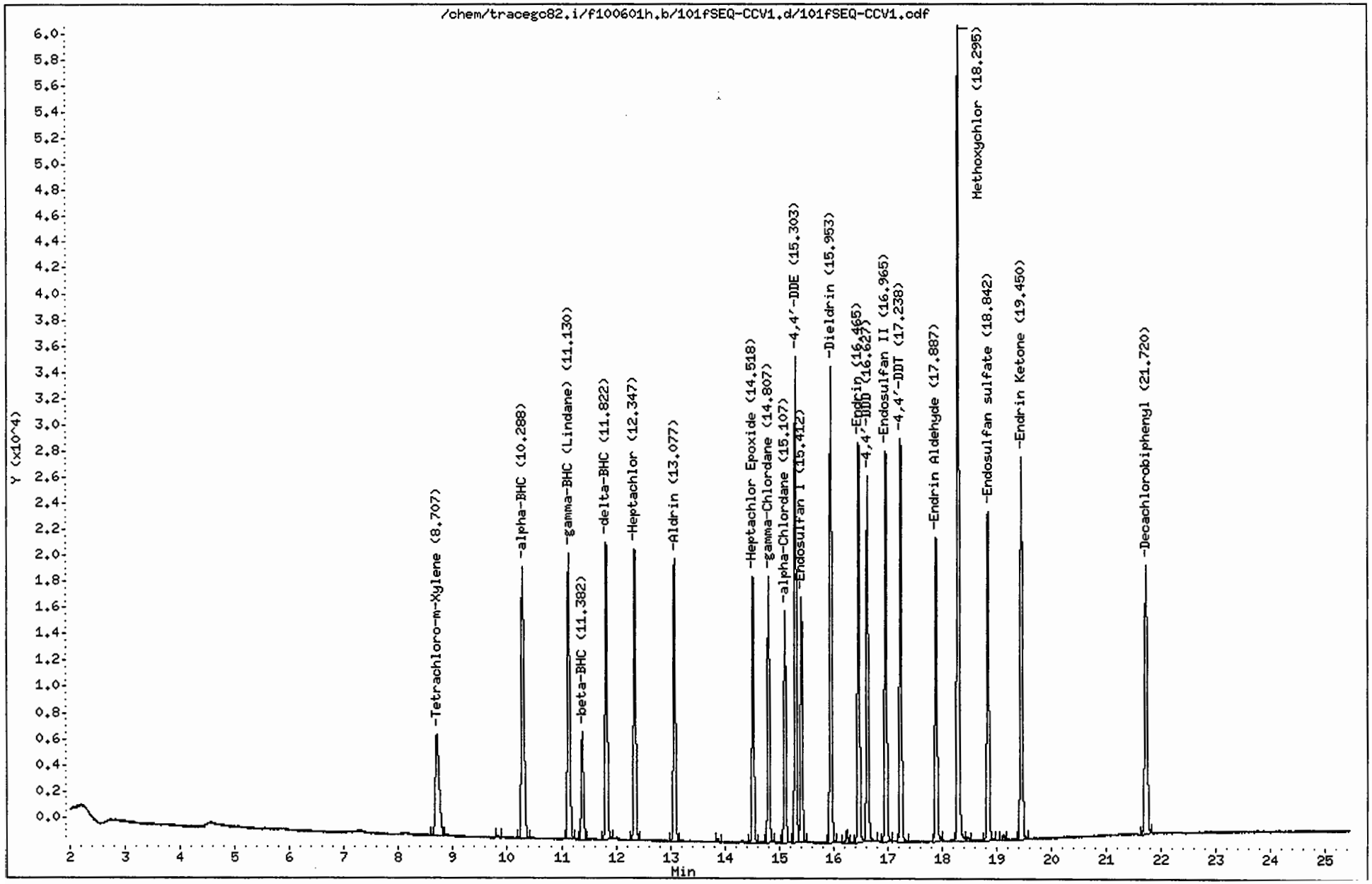
Sample Info: SEQ-CCV1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3FR
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 03-JUN-2010 18:37 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601h.b/8081A_clpestv6.m
Misc. Info : INDC3FR

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
0.34			322								
1.20			505								
1.26			1409								
1.36			3883								
1.44			44089								
8.71	8.63	8.77	37075	1587700	Tetrachloro-m-Xylene	0.020000	1853740	-16.8	20.0		
9.79			405								
10.29	10.21	10.35	69569	3028788	alpha-BHC	0.020000	3478467	-14.8	20.0		
11.13	11.05	11.19	63741	2817265	gamma-BHC (Lindane)	0.020000	3187047	-13.1	20.0		
11.38	11.30	11.44	22977	1035150	beta-BHC	0.020000	1148870	-11.0	20.0		
11.82	11.74	11.88	60903	2721052	delta-BHC	0.020000	3045163	-11.9	20.0		
12.35	12.27	12.41	58914	2589888	Heptachlor	0.020000	2945690	-13.7	20.0		
13.08	13.00	13.14	54240	2391920	Aldrin	0.020000	2712018	-13.4	20.0		
13.87			777								
14.52	14.44	14.58	49438	2235460	Heptachlor Epoxide	0.020000	2471905	-10.6	20.0		
14.81	14.73	14.87	49184	2245768	gamma-Chlordane	0.020000	2459220	-9.5	20.0		
15.11	15.03	15.17	42639	1924148	alpha-Chlordane	0.020000	2131950	-10.8	20.0		
15.30	15.23	15.37	87307	2012896	4,4'-DDE	0.040000	2182681	-8.4	20.0		
15.41	15.33	15.47	46191	2067970	Endosulfan I	0.020000	2309535	-11.7	20.0		
15.95	15.87	16.01	89076	2037205	Dieldrin	0.040000	2226892	-9.3	20.0		
16.25			2505								
16.46	16.39	16.53	75303	1695798	Endrin	0.040000	1882581	-11.0	20.0		
16.63	16.55	16.69	66455	1534440	4,4'-DDD	0.040000	1661363	-8.3	20.0		
16.96	16.89	17.03	75009	1759840	Endosulfan II	0.040000	1875229	-6.6	20.0		
17.24	17.16	17.30	73750	1722489	4,4'-DDT	0.040000	1843748	-7.0	20.0		
17.89	17.81	17.95	59618	1371845	Endrin Aldehyde	0.040000	1490457	-8.6	20.0		
18.30	18.22	18.36	154068	731447	Methoxychlor	0.200000	770338	-5.3	20.0		
18.47			766								
18.84	18.77	18.91	65803	1574194	Endosulfan sulfate	0.040000	1645084	-4.5	20.0		
19.12			1043								
19.45	19.37	19.51	76624	1849761	Endrin Ketone	0.040000	1915606	-3.6	20.0		
21.72	21.64	21.78	65379	1622138	Decachlorobiphenyl	0.040000	1634483	-0.8	20.0		

6/5/10

Data File: /chem/tracegc82.i/f100601h.b/102fSEQ-PEM1.d

Date : 03-JUN-2010 19:07

Client ID: PEMFR

Instrument: tracegc82.i

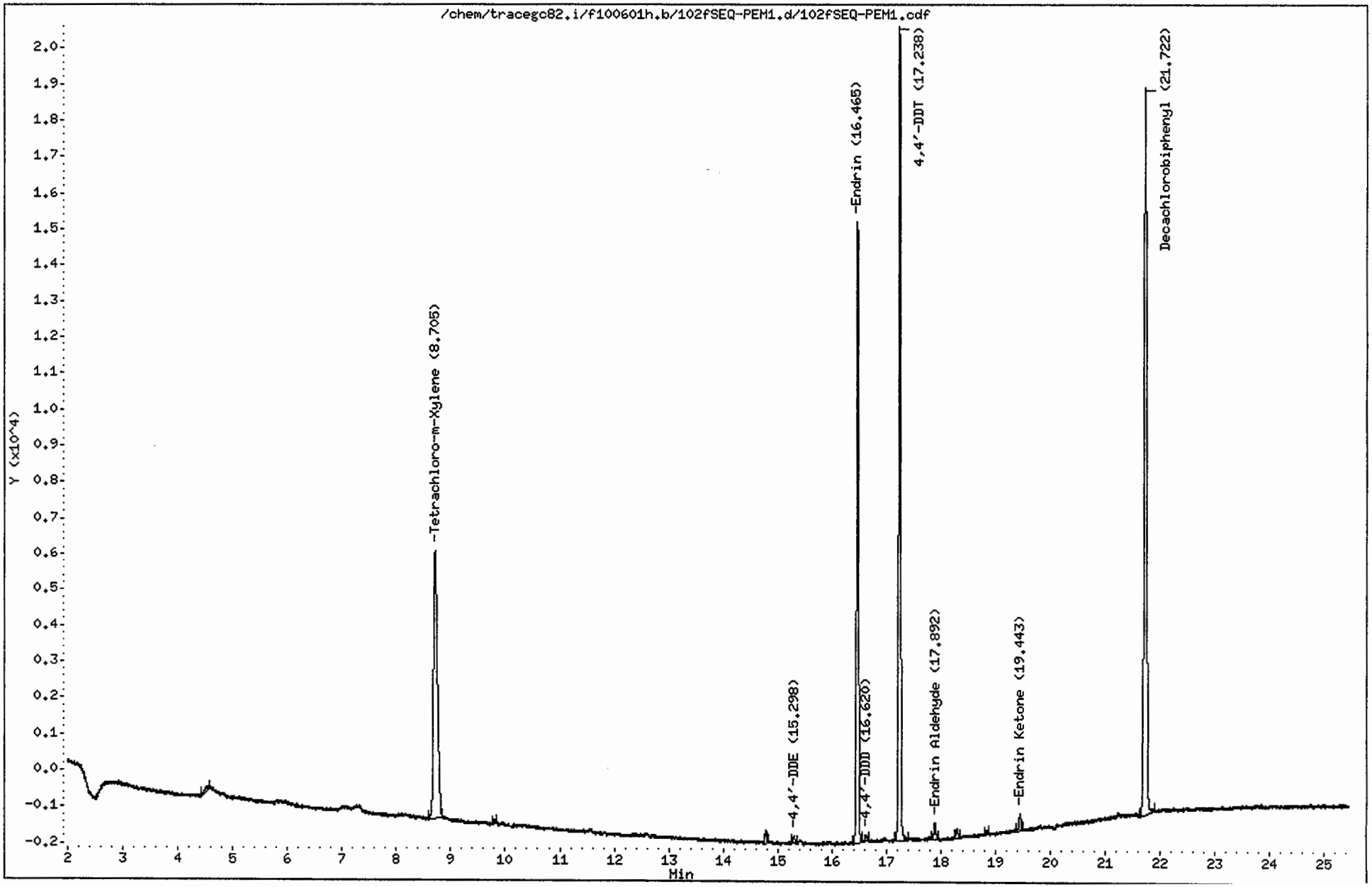
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMFR
Sample Type : SAMPLE Sublist : PEM
Inj Date : 03-JUN-2010 19:07 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601h.b/8081A_clpestv6.m
Misc. Info : PEMFR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
0.40			303								
0.46			365								
1.03			312								
1.23			313								
1.36			3767								
1.42			31535								
4.53			474								
8.70	8.63	8.77	36959	1587700	Tetrachloro-m-Xylene	0.023278	0.023278		117.6	43 - 135	
9.81			414								
14.79			885								
15.30	15.23	15.37	526	2012896	4,4'-DDE	0.000261	0.000261	0.020000			J
16.46	16.39	16.53	42468	1695798	Endrin	0.025043	0.025043	0.020000			
16.62	16.55	16.69	521	1534440	4,4'-DDD	0.000340	0.000340	0.020000			J
17.24	17.16	17.30	54756	1722489	4,4'-DDT	0.031789	0.031789	0.020000			
17.89	17.81	17.95	1209	1371845	Endrin Aldehyde	0.000881	0.000881	0.020000			J
18.29			708								
18.84			350								
19.44	19.37	19.51	1182	1849761	Endrin Ketone	0.000639	0.000639	0.020000			J
21.72	21.64	21.78	64155	1622138	Decachlorobiphenyl	0.039550	0.039550		99.9	43 - 144	

6/9/10

Data File: /chem/tracegc82.i/f100601h_2C.b/101fSEQ-CCV1.d

Date : 03-JUN-2010 18:37

Client ID: INDC3FR

Instrument: tracegc82.i

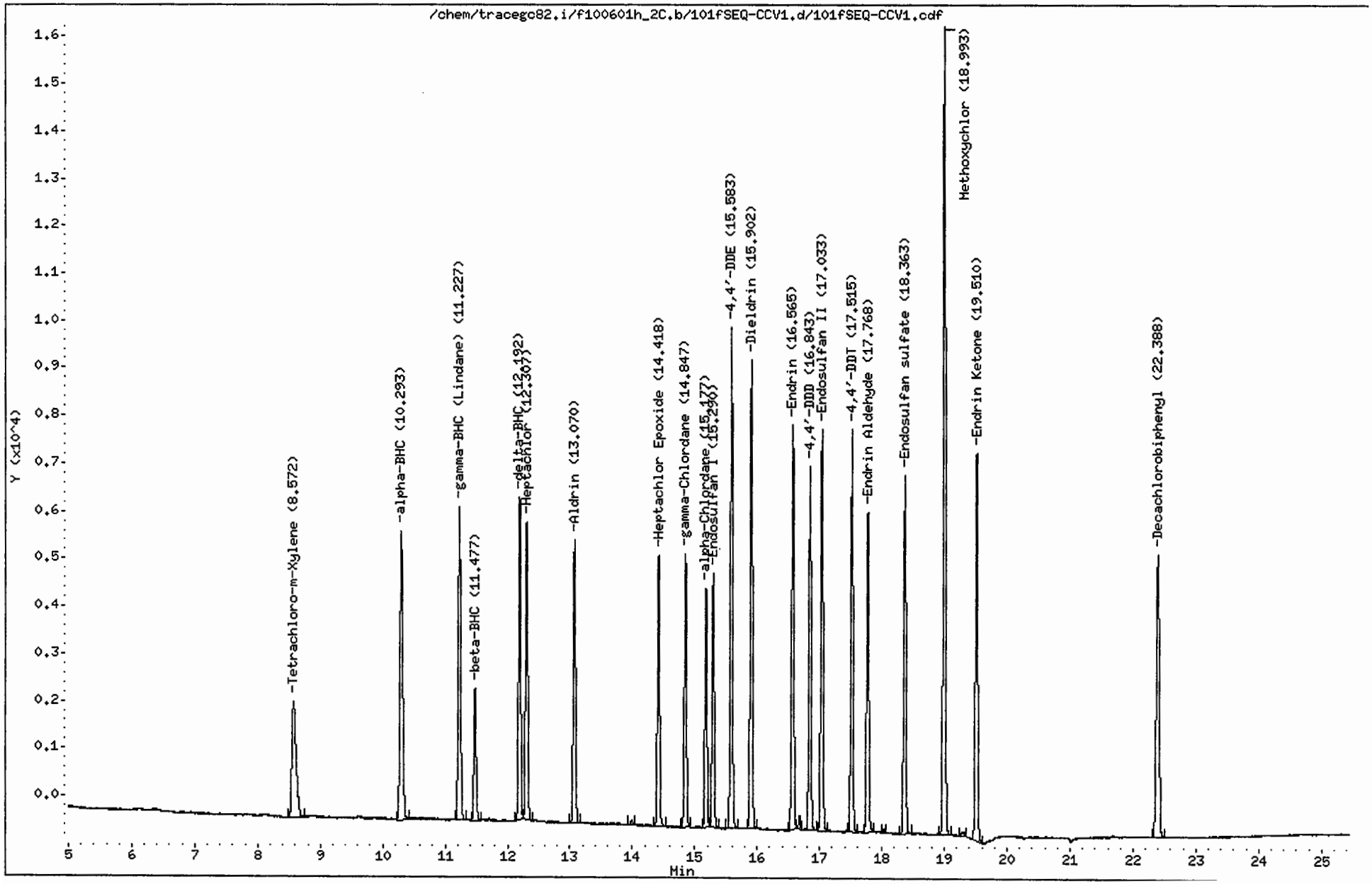
Sample Info: SEQ-CCV1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCV1 Client Smp Id : INDC3FR
Sample Type : CONT CAL: Level 3 Sublist : INDA
Inj Date : 03-JUN-2010 18:37 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601h_2C.b/8081A_clpest2v6.m
Misc. Info : INDC3FR

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	STD AMT ON-COLUMN (Ng)	CCAL RF	%D	%D LIMIT	FLAGS	
0.07			139								
1.33			611								
1.48			3408								
2.65			423								
8.57	8.49	8.63	11405	548876	Tetrachloro-m-Xylene	0.020000	570245	-3.9	20.0		
10.29	10.22	10.36	18135	916452	alpha-BHC	0.020000	906740	1.1	20.0		
11.23	11.15	11.29	16988	866882	gamma-BHC (Lindane)	0.020000	849395	2.0	20.0		
11.48	11.40	11.54	6886	347428	beta-BHC	0.020000	344310	0.9	20.0		
12.19	12.11	12.25	15784	827595	delta-BHC	0.020000	789202	4.6	20.0		
12.31	12.23	12.37	15463	778205	Heptachlor	0.020000	773143	0.7	20.0		
13.07	12.99	13.13	14303	726628	Aldrin	0.020000	715173	1.6	20.0		
13.99			204								
14.42	14.34	14.48	13342	683115	Heptachlor Epoxide	0.020000	667125	2.3	20.0		
14.85	14.77	14.91	13298	690205	gamma-Chlordane	0.020000	664890	3.7	20.0		
15.18	15.10	15.24	11482	595455	alpha-Chlordane	0.020000	574087	3.6	20.0		
15.29	15.21	15.35	12335	638725	Endosulfan I	0.020000	616763	3.4	20.0		
15.58	15.51	15.65	23341	617325	4,4'-DDE	0.040000	583531	5.5	20.0		
15.90	15.82	15.96	22934	598394	Dieldrin	0.040000	573362	4.2	20.0		
16.56	16.49	16.63	20318	524785	Endrin	0.040000	507958	3.2	20.0		
16.68			573								
16.84	16.76	16.90	17257	454222	4,4'-DDD	0.040000	431419	5.0	20.0		
17.03	16.95	17.09	19986	526756	Endosulfan II	0.040000	499653	5.1	20.0		
17.52	17.44	17.58	19001	503765	4,4'-DDT	0.040000	475020	5.7	20.0		
17.77	17.69	17.83	16156	425754	Endrin Aldehyde	0.040000	403903	5.1	20.0		
18.03			164								
18.36	18.29	18.43	18023	479624	Endosulfan sulfate	0.040000	450575	6.1	20.0		
18.99	18.92	19.06	39454	208391	Methoxychlor	0.200000	197270	5.3	20.0		
19.28			360								
19.51	19.43	19.57	19916	535815	Endrin Ketone	0.040000	497898	7.1	20.0		
22.39	22.31	22.45	18823	497254	Decachlorobiphenyl	0.040000	470585	5.4	20.0		

Data File: /chem/tracegc82.i/f100601h_2C.b/102fSEQ-PEM1.d

Page 1

Date : 03-JUN-2010 19:07

Client ID: PEMFR

Instrument: tracegc82.i

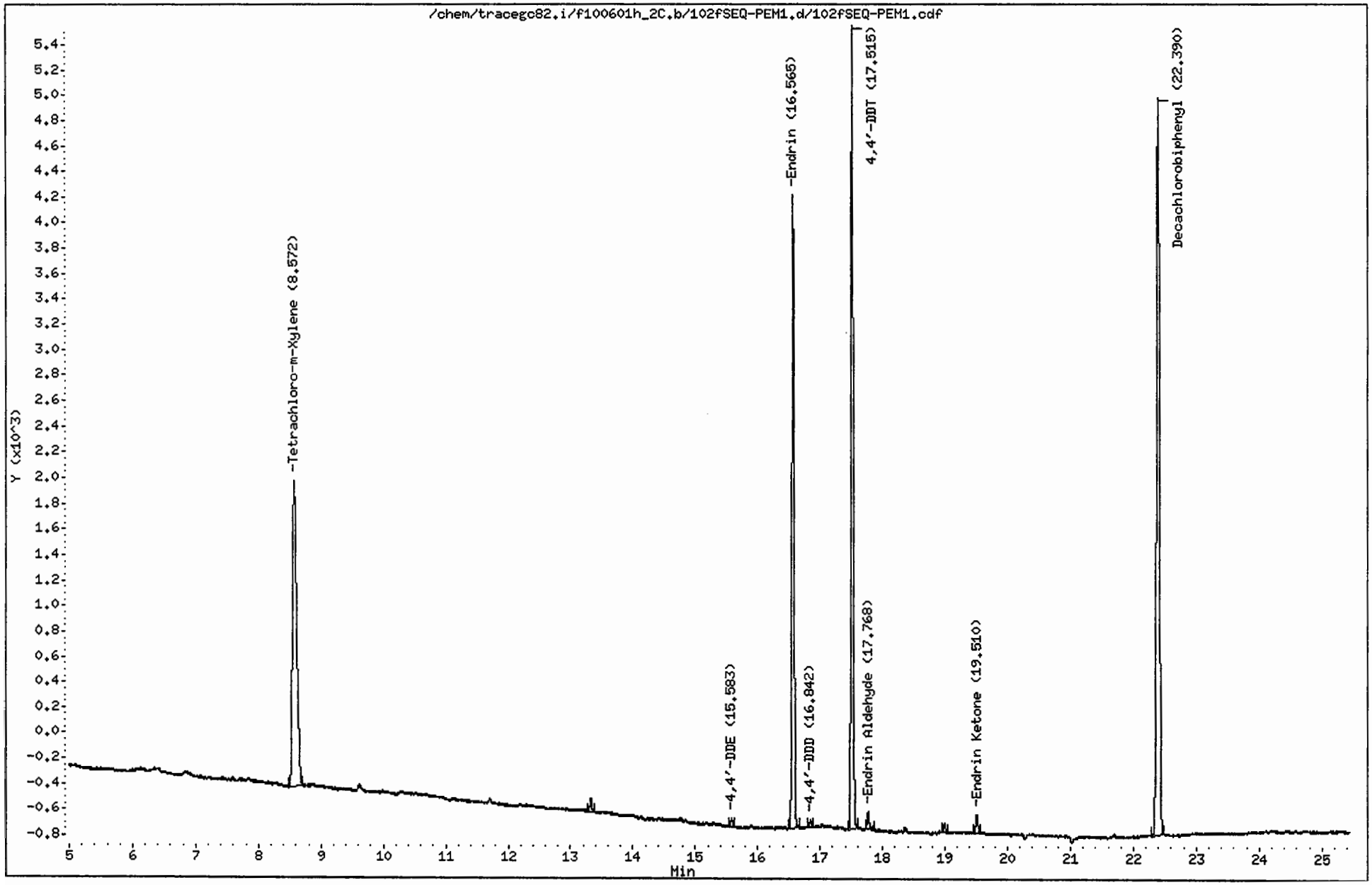
Sample Info: SEQ-PEM1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-PEM1 Client Smp Id : PEMFR
Sample Type : SAMPLE Sublist : PEM
Inj Date : 03-JUN-2010 19:07 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601h_2C.b/8081A_clpest2v6.m
Misc. Info : PEMFR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 1000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	% REC	RECOVERY LIMITS	FLAGS
1.34			360								
1.47			3449								
2.63			437								
8.57	8.49	8.63	11220	548876	Tetrachloro-m-Xylene	0.020442	0.020442		103.2	43 - 135	
13.33			215								
15.58	15.51	15.65	137	617325	4,4'-DDE	0.000222	0.000222	0.020000			J
16.56	16.49	16.63	11786	524785	Endrin	0.022459	0.022459	0.020000			
16.84	16.76	16.90	127	454222	4,4'-DDD	0.000279	0.000279	0.020000			J
17.52	17.44	17.58	14388	503765	4,4'-DDT	0.028562	0.028562	0.020000			
17.77	17.69	17.83	333	425754	Endrin Aldehyde	0.000781	0.000781	0.020000			J
19.00			148								
19.51	19.43	19.57	357	535815	Endrin Ketone	0.000665	0.000665	0.020000			J
22.39	22.31	22.45	18328	497254	Decachlorobiphenyl	0.036859	0.036859		93.1	43 - 144	

560

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 82/83 File Path: f100601 DATE 6/1/10

GC EXTRACTABLES RUN LOG Amt. Inj. 2 µL (1 µL per column)

LOGBOOK 4 M(4) 38 Method: 8081A 8081B 8082 8082A 8151A OLM04.3 OLC03.2 SOM01.2 (Circle one) or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1	✓	1		6/1/10	Hexane	〃	〃	WP	〃
2	✓	2		/ /	〃	〃	〃		
3		3	✓	/ /	0F01010 - PEM1	6E21002	PEMFA		
4		4	✓	/ /	-CAC1	6C16001	INDCLFA		
5		5	✓	/ /	2	6C16002	2		
6		6	✓	/ /	3	6E11005	3		
7		7	✓	/ /	4	6C16004	4		
8		8	✓	/ /	5	6C26005	5		
9		9	✓	/ /	-ARC1	6D16008	2XAPH5FA		
10		10	✓	/ /	1 2	6C02004	CHLOLVSFA		
11		11	✓	/ /	-SCV1	6E25016	PESTCHKFA	〃	〃
12				/ /					
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

6/2/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: 060621 Sequence ID: 0F01010 Hexane Lot No 71940

REVIEWED BY: TAJ DATE 6/2/10

7/02/09:jr

561

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 82/83 File Path: f:\06019 DATE 6/1/10

GC EXTRACTABLES RUN LOG Amt. Inj. 2 µL (1 µL per column)

LOGBOOK 4 M(4) 38 Method: 8081A 8081B 8082 8082A 8151A OLM04.3 OLC03.2 SOM01.2 (Circle one) or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1	/	12		6/1/10	SEQ-16L1	06E07001		CH	
2		B	/	/ /	-CCB1	↓	PIBLKFCFD		
3		14	/	/ /	-CCV1	06E11005	1-OLCSFD		
4		15	/	/ /	-PEM1	06E21002	PEMFD		
5		16	/	/ /	005191 9-BLK1	U1005			
6		17	/	/ /	-BS1				
7		18	/	6/2/10	-BSD1				
8		19	/	/ /	-MS1				
9		20	/	/ /	-MS2				
10		21	/	/ /	-MSD1				
11		22	/	/ /	-MSD2				
12		23	/	/ /	100S132-01	100S132			
13		24	/	/ /	↓ 02	↓			
14		25	/	/ /	SEQ-16L2	06E07001			
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

KEH 6/3/10

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/3/10

7/02/09:jr

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 82/83 File Path: f100601b DATE 6/2/10

GC EXTRACTABLES RUN LOG Amt. Inj. 2 µL (1 µL per column)

LOGBOOK 4 M(4) 38 Method: 8081A 8081B 8082 8082A 8151A OLM04.3 OLC03.2 SOM01.2 (Circle one) or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		26	✓	6/2/10	SEQ-CCV2	0507001	PBMC FEFF	✓	
2		27	✓	/ /	-CCV2	0E11001	IMDCBTC		
3		28	✓	/ /	-AEM2	0521002	PBMPC		
4		29	✓	/ /	100152-03	100732			
5		30	✓	/ /	04				
6		31	✓	/ /	05				
7		32	✓	/ /	06				
8		33	✓	/ /	07				
9		34	✓	/ /	08				
10		35	✓	/ /	09				
11		36	✓	/ /	10				
12		37	✓	/ /	11				
13		38	✓	/ /	SEQ-1603	0E0001			
14		39 solvblk	✓	/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 6/3/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/3/10

7/02/09:jr

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID 82/83 File Path: f 100601c DATE 6/2/10

GC EXTRACTABLES RUN LOG Amt. Inj. 2 µL (1 µL per column)

LOGBOOK 4 M(4) 38 Method: 8081A (8081B) 8082 8082A 8151A OLM04.3 OLC03.2 SOM01.2 (Circle one) or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		39	✓	6/2/10	SEQ-CCB3	DE07001	PIBHCFGPH	LQ	
2		40	✓	/ /	-CCB3	DE11005	1HOLYPH		
3		41	✓	/ /	-PEM3	DE21002	PEMPH		
4		42	✓	/ /	100532-12	100532			
5		43	✓	/ /	13				
6		44	✓	/ /	14				
7		45	✓	/ /	100533-01	100533			
8		46	✓	/ /	100534-01 DE	100534			
9		47	✓	/ /	02				
10		48	✓	/ /	03				
11		49	✓	/ /	04				
12		50	✓	/ /	05				
13		51	✓	/ /	SEQ-1614	DE07001			
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 6/3/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/3/10

7/02/09:jr

564

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID: 82 File Path: f100601d DATE 6/2/10
GC EXTRACTABLES RUN LOG Amt. Inj. 2 µL (1 µL per column)
LOGBOOK 4 M(4) 39 Method: ~~8081B~~ 8082A ~~8151A~~ SOM01.2 ARO SOM01.2 Pest (Circle one) or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		52	/	6/2/10	SEQ - CCB4	0E07001	PIBKFIF)	CD	
2		53	/	/ /	- CCV4	0E11005	1MD(3F)		
3		54	/	/ /	- PEM4	0E21002	PEMFJ		
4		55	/	/ /	0005405 - BLK1	10J1732			
5		56	/	/ /	- LCS1				
6		57	/	/ /	- LCSD1				
7		58	/	/ /	1005152 - 15				
8		59	/	/ /	16				
9		60	/	/ /	17				
10		61	/	/ /	18				
11		62	/	/ /	19				
12		63	/	/ /	20				
13		64	/	/ /	SEQ - IBL1	0E07001			
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
~~20~~				/ /					

KEH 6/3/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/3/10

4/16/10:jad

COMPUCHEM a Division of Liberty Analytical Corp Instrument ID: 82 File Path: f0060le DATE 6/2/10
GC EXTRACTABLES RUN LOG Amt. Inj. 2 µL (1 µL per column)
LOGBOOK 4 M(4) 39 Method: 8081B ~~8082A~~ 8151A SOM01.2 ARO SOM01.2 Pest (Circle one) or Other: _____

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		65	/	6/2/10	SEQ-CCB1	2E07001	PIBMC FKFL	LD	
2		66	/	/ /	-ICV1	OE11W5	1,2DCLBFL		
3		67	/	/ /	-MDL1	OE21002	PCMFL		
4		68	/	6/3/10	1005246-BLK1	1W5153			
5		69	/	/ /	-BS1				
6		70	/	/ /	-BSD1				
7		71	/	/ /	1005153-02				
8		72	/	/ /	03				
9		73	/	/ /	04				
10		74	/	/ /	05				
11		75	/	/ /	06				
12		76	/	/ /	SEQ-1BLK	OE07001			
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 6/4/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/4/10

4/16/10:jad

COMPUCHEM a Division of Liberty Analytical Corp
GC EXTRACTABLES RUN LOG
LOGBOOK 4 M(4) 39

Instrument ID: 82 File Path: f100601g DATE 6/3/10

Amt. Inj. 2 µL (1 µL per column)

Method: (8081B 8082A) 8151A SOM01.2 ARO SOM01.2 Pest (Circle one) or Other: ______

☒ Changed septum ☒ Changed liner ☒ Baked column ☐ Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1	✓	88		6/3/10	SEQ-CCB3	0E07601		WP	
2	✓	89		/ /	-CCV3	0E11005			
3	✓	90		/ /	-PEM3	0E21002			
4	✓	91		/ /	1005133-14	1005133			
5		92	✓	/ /	SEQ-CCV3	0E11005	INDX3FP		RT SET 6/4/10
6		93	✓	/ /	-CCB3	0E07001	PIBLKFCFP		
7		94	✓	/ /	-PEM3	0E21002	PEMFP		
8		95	✓	/ /	1005132-03	1005132			5x (sulfur hex)
9		96	✓	/ /	05				10X (cu/hex/cu std)
10		97		/ /	11				10x
11		98	✓	/ /	13				5X (cu/hex/cu std)
12		99	✓	/ /	SEQ-CCB3	0E07001			
13				/ /					
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 6/4/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/4/10

4/16/10:jad

COMPUCHEM a Division of Liberty Analytical Corp

GC EXTRACTABLES RUN LOG

LOGBOOK 4 M(4) 39

Instrument ID: 82 File Path: f100603h DATE 6/3/10

Method: (8081B) 8082A 8151A SOM01.2 ARO SOM01.2 Pest (Circle one) or Other: ____ Amt. Inj. 2 µL (1 µL per column)

☐Changed septum ☐Changed liner ☐Baked column ☐Trimmed column

	REJECTED	FILE NUMBER	REPORTED	DATE	COMPUCHEM #	CASE/SDG#	STANDARD ID	CHEMIST	COMMENTS
1		100	✓	6/3/10	SEQ-CCB1	0E0X001	PIBMCFGFR	↓	
2		101	✓	/ /	-CW1	0E1100S	INDCBFR		
3		102	✓	/ /	-DEM1	0E21002	DEMFR		
4		103		/ /	0060308-BLK1	1006020			SL
5		104		/ /	-BS1				
6		105		/ /	-BSD1				
7		106		/ /	1006020-01				1ux (40f hel 10/5ton)
8		107		/ /	02				
9		108		/ /	03				
10		109		/ /	04				
11		110		/ /	05				
12		111		/ /	06				
13		112		/ /	SEQ-CCB2	0E0X001			
14				/ /					
15				/ /					
16				/ /					
17				/ /					
18				/ /					
19				/ /					
20				/ /					

KEH 6/4/10

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Calibration ID: NA Sequence ID: NA Hexane Lot No 71940

REVIEWED BY: KEH DATE 6/4/10

4/16/10:jad

4. Raw QC Data

    a. Blank Data

    b. Laboratory Control Sample Data

    c. Matrix Spike Data

    d. Matrix Spike Duplicate Data

a. Blank Data

Arranged by type of blank

i) Method blanks shall be in chronological order, by extraction date.
ii) Instrument blanks shall be in chronological order, by GC column and instrument.
iii) Sulfur cleanup blanks (if needed) shall be in chronological order, by date of analysis.

- Tabulated Results (Form I)
- Chromatograms and date system printout(s) for each GC column and instrument used for analysis.

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PBLKBO

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/01/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-85-7	beta-BHC	1.7	U
319-84-6	alpha-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	3.3	U
72-55-9	4,4'-DDE	3.3	U
50-29-3	4,4'-DDT	3.3	U
60-57-1	Dieldrin	3.3	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
72-20-8	Endrin	3.3	U
7421-93-4	Endrin Aldehyde	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor Epoxide	1.7	U
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	3.3	U
5103-74-2	gamma-Chlordane	1.7	U
5103-71-9	alpha-Chlordane	1.7	U

Data File: /chem/tracegc82.i/f100601a.b/016f0051919-BLK1.d

Date : 01-JUN-2010 23:05

Client ID: PBLKBO

Instrument: tracegc82.i

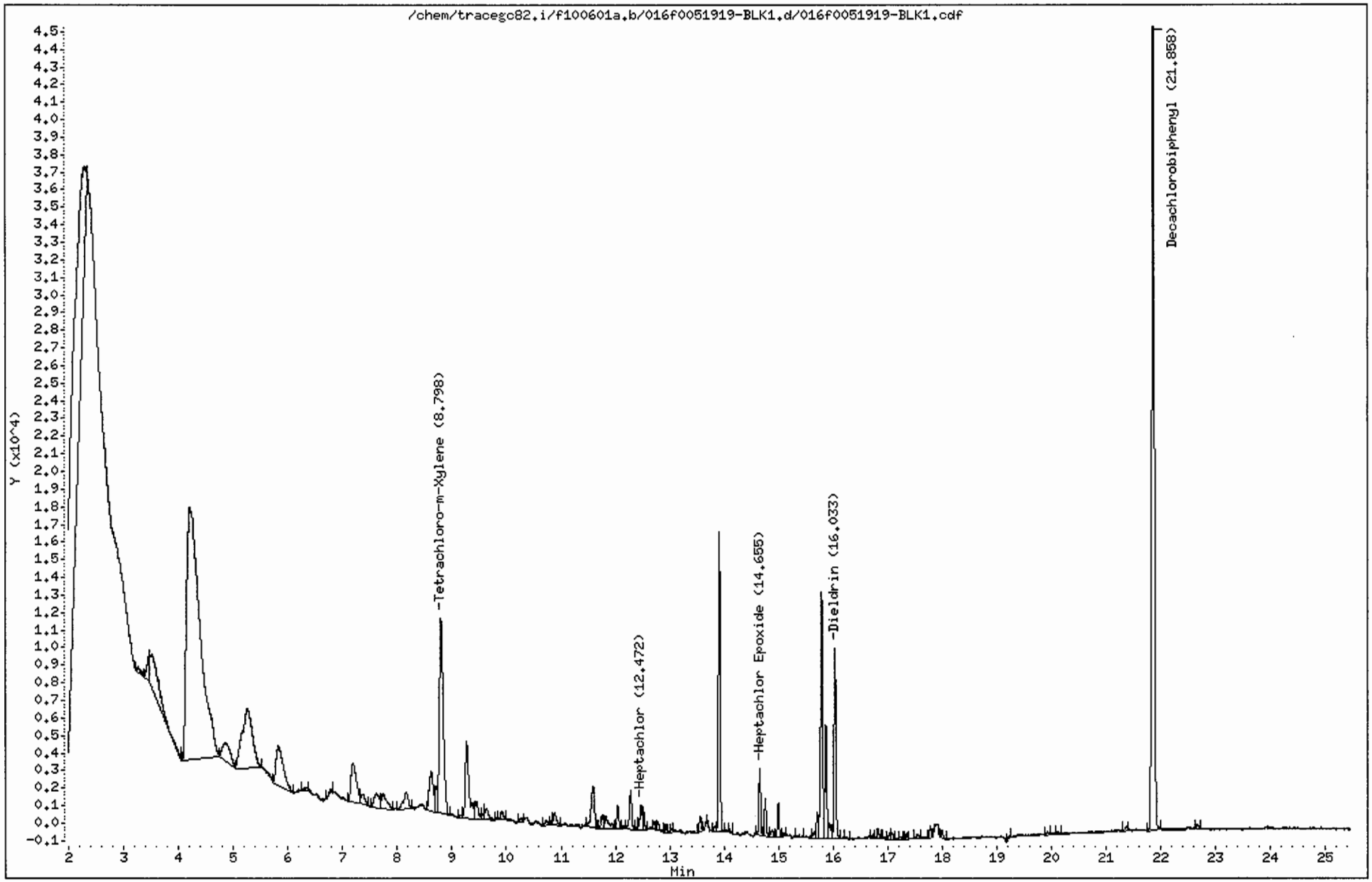
Sample Info: 0051919-BLK1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051919-BLK1 Client Smp Id : PBLKBO
Sample Type : BLANK Sublist : DODPEST
Inj Date : 01-JUN-2010 23:05 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PBLKBO

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
0.04			329								
1.48			19666								
2.29			121857								
3.27			1572								
3.46			3236								
3.52			25018								
4.21			246413								
4.86			10407								
5.25			44890								
5.82			21048								
6.32			621								
6.77			936								
7.19			15557								
7.36			2821								
7.62			5578								
7.74			5451								
8.16			6281								
8.62			11451								
8.72			4275								
8.80	8.73	8.87	54569	1587700	Tetrachloro-m-Xylene	0.034370	5.728309		57.3*	70 - 125	R
9.18			574								
9.27			20563								
9.45			4445.								
9.59			1161								
9.63			2959								
9.91			1510								
10.27			620								
10.73			964								
10.84			463								
10.88			2658								
11.60			10039								
11.76			2193								
11.82			3761								
12.04			3536								
12.14			385								
12.28			6672								
12.41			541								

CompuChem

Lab Smp Id : 0051919-BLK1 Client Smp Id : PBLKBO
Sample Type : BLANK Sublist : DODPEST
Inj Date : 01-JUN-2010 23:05 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PBLKBO

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.47	12.38 12.52	3939	2589888	Heptachlor	0.001521	0.253486	1.700000			J
12.51		2521								
12.72		1067								
12.79		1239								
12.94		1161								
13.04		336								
13.56		2328								
13.67		392								
13.83		728								
13.91		38642								
14.10		512								
14.66	14.56 14.70	8581	2235460	Heptachlor Epoxide	0.003838	0.639689	1.700000			J
14.76		4983								
14.88		1175								
14.99		4246								
15.09		526								
15.36		474								
15.65		872								
15.71		3323								
15.79		35753								
15.87		16167								
15.93		2698								
16.03	15.99 16.13	25750	2037205	Dieldrin	0.012639	2.106563	3.300000			J
16.24		292								
16.72		421								
16.81		1362								
16.94		370								
17.03		903								
17.08		924								
17.23		364								
17.34		755								
17.55		951								
17.78		1427								
17.99		942								
19.24		523								
19.93		369								
20.11		471								

CompuChem

Lab Smp Id : 0051919-BLK1 Client Smp Id : PBLKBO
Sample Type : BLANK Sublist : DODPEST
Inj Date : 01-JUN-2010 23:05 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PBLKBO

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.37		653								
21.86	21.79 21.93	147296	1622138	Decachlorobiphenyl	0.090803	15.13383		75.7	55 - 130	
22.66		911								

Data File: /chem/tracegc82.i/f100601a_2C.b/016f0051919-BLK1.d

Page 1

Date : 01-JUN-2010 23:05

Client ID: PBLKBO

Instrument: tracegc82.i

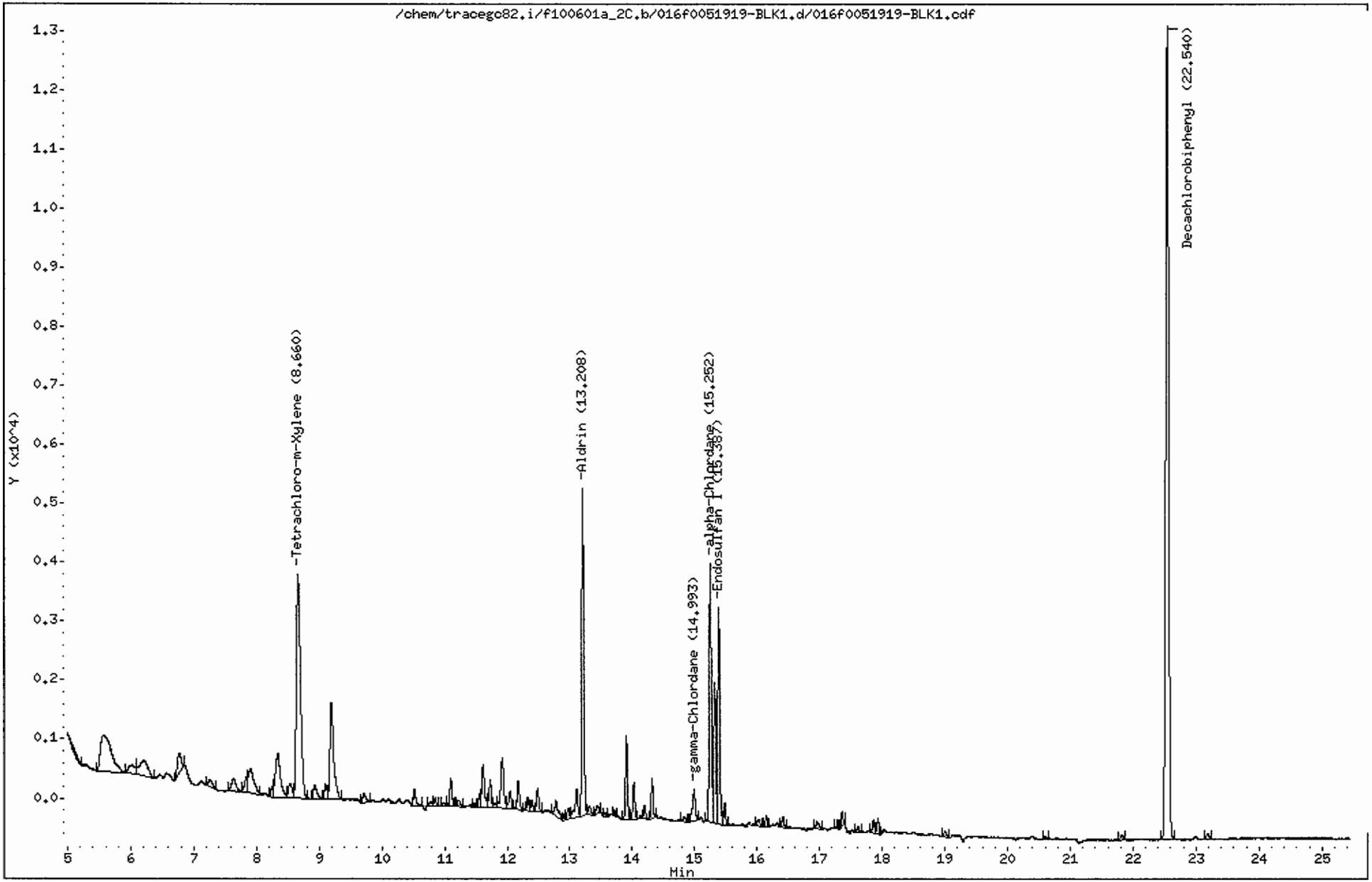
Sample Info: 0051919-BLK1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051919-BLK1 Client Smp Id : PBLKBO
Sample Type : BLANK Sublist : DODPEST
Inj Date : 01-JUN-2010 23:05 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKBO

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
0.05			145								
1.35			324								
1.52			7970								
2.07			16383								
3.15			7648								
3.52			66278								
4.85			8147								
5.57			7317								
6.01			1017								
6.21			2504								
6.77			1433								
7.26			551								
7.63			1052								
7.84			821								
7.90			2574								
8.25			368								
8.34			4294								
8.53			1008								
8.66	8.59	8.73	17423	548876	Tetrachloro-m-Xylene	0.031741	5.290205		52.9*	70 - 125	R
8.93			974								
9.10			753								
9.19			6799								
9.71			579								
10.52			852								
10.78			175								
10.85			302								
11.00			182								
11.10			1196								
11.23			355								
11.47			169								
11.56			517								
11.62			2215								
11.73			1179								
11.80			227								
11.92			2921								
12.05			777								
12.18			1224								

6/2/10

CompuChem

Lab Smp Id : 0051919-BLK1 Client Smp Id : PBLKBO
Sample Type : BLANK Sublist : DODPEST
Inj Date : 01-JUN-2010 23:05 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKBO

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.33		485								
12.39		410								
12.48		964								
12.78		1048								
12.91		142								
12.97		443								
13.11		1599								
13.21	13.10 13.24	12488	726628	Aldrin	0.017186	2.864375	1.700000			
13.31		436								
13.45		410								
13.56		133								
13.72		145								
13.91		2962								
14.03		1373								
14.20		488								
14.32		1468								
14.83		236								
14.99	14.88 15.02	1665	690205	gamma-Chlordane	0.002411	0.401813	1.700000			J
15.25	15.21 15.35	9960	595455	alpha-Chlordane	0.016727	2.787784	1.700000			
15.32		5552								
15.39	15.33 15.47	8486	638725	Endosulfan I	0.013286	2.214307	1.700000			
15.48		781								
16.03		314								
16.15		408								
16.41		374								
16.96		369								
17.29		277								
17.36		446								
17.62		234								
17.86		471								
17.93		560								
19.00		295								
20.60		124								
21.83		223								
22.54	22.47 22.61	44517	497254	Decachlorobiphenyl	0.089526	14.92093		74.6	55 - 130	
23.18		279								

CompuChem

ASSIGNED TO T. Williams

EXTRACTION WORKSHEET

DATE/TIME EXTRACTED: 5-20-10 @1110

PEST/PCB IN S/S/S BY METHOD 3550B/C for 8081/8082

5-24-2

EMPLOYEE ID # 1289

BATCH NO.: 0051919

	COMPUCHEM SAMPLE NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE WEIGHT (g)	FINAL VOLUME (ml)	COMMENTS
1	0051919-BLK1	PBLKBO	MB	30.0	5.0	*** Samples need to be GPC'd ***
2	0051919-BS1	PBOLCS	LCS	30.0		
3	0051919-BSD1	PBOLCSD	LCSD	30.0		
4	0051919-MS1	SB85-1.5-2.5MS	MS1	30.0		ML 5-24-10
5	0051919-MS2	SS73-0-1MS	MS2	30.0		
6	0051919-MSD1	SB85-1.5-2.5MSD	MSD1	30.0		
7	0051919-MSD2	SS73-0-1MSD	MSD2	30.0		
8	1005132-01	SB85-1.5-2.5	SAMPLE	30.0		QC1
9	1005132-02	SB78-3.5-4.5	SAMPLE	30.0		GPC (3640A) PERFORMED? (Y) N
10	1005132-03	SS77-0-1	SAMPLE	30.0		FLORISIL PERFORMED? Y (N)
11	1005132-04	SB77-3.5-4.5	SAMPLE	30.0		
12	1005132-05	SS79-0-1	SAMPLE	30.0		
13	1005132-06	SB79-11-12	SAMPLE	30.0		
14	1005132-07	SS83-0-1	SAMPLE	30.0		ML 5-24-10
15	1005132-08	SB83-6.5-7.5	SAMPLE	30.0		
16	1005132-09	SS62-0-1	SAMPLE	30.0		
17	1005132-10	SS74-0-1	SAMPLE	30.0		
18	1005132-11	SS86-0-1	SAMPLE	30.0		
19	1005132-12	SB86-3-4	SAMPLE	30.0		
20	1005132-13	SS84-0-1	SAMPLE	30.0		
21	1005132-14	SB84-6-7	SAMPLE	30.0		
22	1005133-01	SS73-0-1	SAMPLE	30.0		QC2
23	1005134-01	SS02-0-1	SAMPLE	30.0		ML 5-24-10
24	1005134-02	SS02D-0-1	SAMPLE	30.0		
25	1005134-03	SB02-5-6	SAMPLE	30.0		GPC Run Date: 5-21-10
26	1005134-04	SB02D-5-6	SAMPLE	30.0		GPC # 6
27	1005134-05	SB05-7-8	SAMPLE	30.0	5.0	GPC Calib. Date: 5-17-10

		AMOUNT		SURROGATE AND SPIKE ADDED BY:
SURROGATE	449	0.5 ml	OE07009	TMW 5-20-10
SPIKE	4030	1.0 ml	OE14001	INITIALS DATE

FINAL VOLUME VERIFIED: MLett

REVIEWED BY: B. Potter

Witness SB, 5-20-10 (Initials, Date)

Analysts initials. Extract TMW KD BP N2 BP Bottle up ML, VG

Balance: SARTORIUS-BL310

Manufacturers and lot numbers of reagents/solvents used 50/50 CH_2Cl_2/CH_3COCH_3-2XB-649-3, Na_2SO_4-2XB-649-2, C_6H_{14}-73003

4/1/10:jad

578

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKCE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052405-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	1.7	U
319-85-7	beta-BHC	1.7	U
319-84-6	alpha-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
72-54-8	4,4'-DDD	3.3	U
72-55-9	4,4'-DDE	3.3	U
50-29-3	4,4'-DDT	3.3	U
60-57-1	Dieldrin	3.3	U
959-98-8	Endosulfan I	1.7	U
33213-65-9	Endosulfan II	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
72-20-8	Endrin	3.3	U
7421-93-4	Endrin Aldehyde	3.3	U
76-44-8	Heptachlor	1.7	U
1024-57-3	Heptachlor Epoxide	1.7	U
72-43-5	Methoxychlor	17	U
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	3.3	U
5103-74-2	gamma-Chlordane	0.20	JP
5103-71-9	alpha-Chlordane	1.7	U

Data File: /chem/tracegc82.i/f100601d.b/055f0052405-BLK1.d

Date : 02-JUN-2010 18:01

Client ID: PBLKCE

Instrument: tracegc82.i

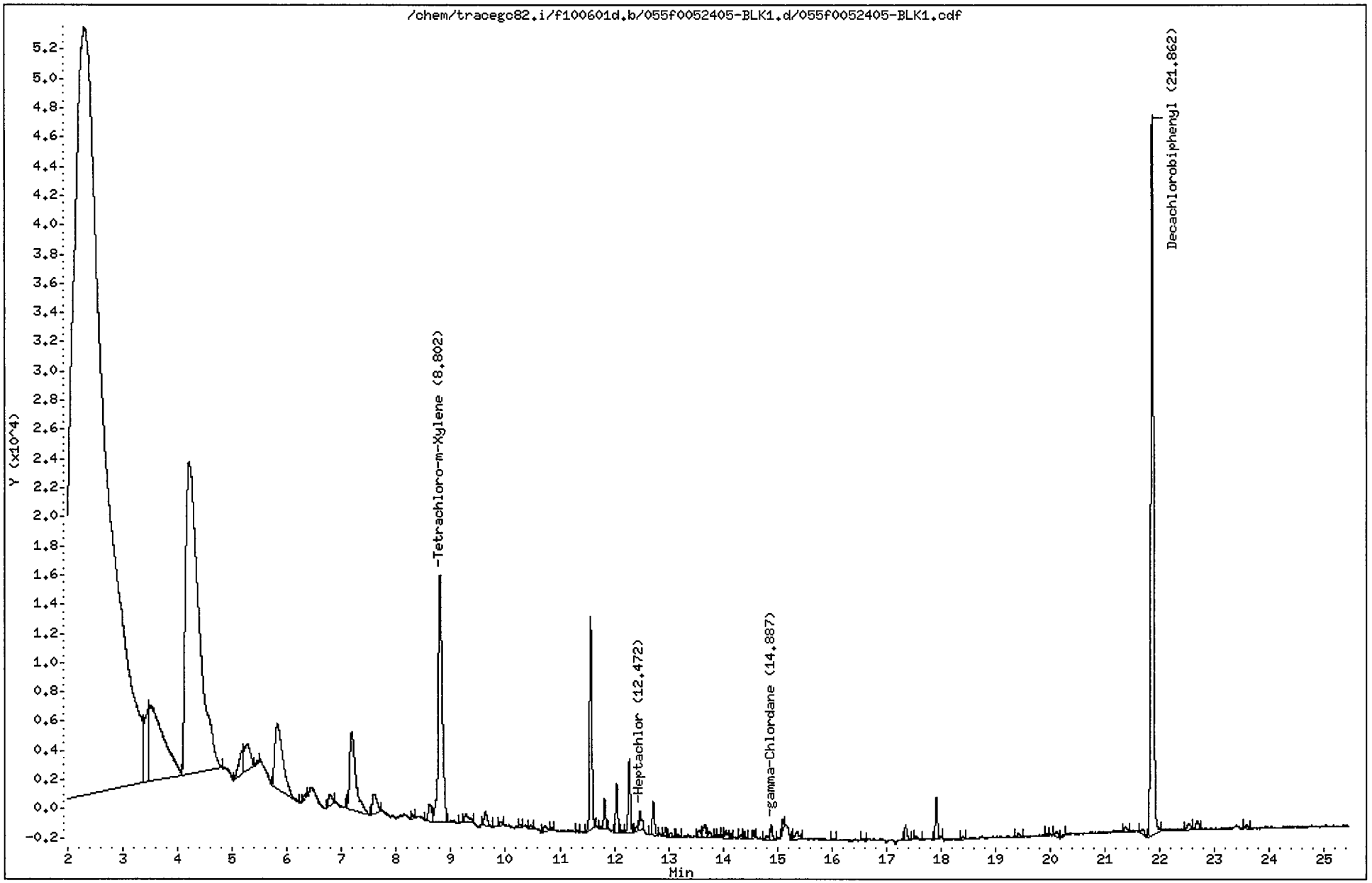
Sample Info: 0052405-BLK1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052405-BLK1 Client Smp Id : PBLKCE
Sample Type : BLANK Sublist : DODPEST
Inj Date : 02-JUN-2010 18:01 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PBLKCE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.04			436								
1.49			141253								
2.31			2261728								
3.48			26516								
3.52			93808								
4.21			361490								
5.20			10088								
5.27			14343								
5.47			748								
5.83			46086								
6.33			1205								
6.78			3921								
7.09			531								
7.19			40624								
7.60			8143								
8.30			869								
8.61			5552								
8.80	8.73	8.87	86275	1587700	Tetrachloro-m-Xylene	0.054339	9.056500		90.6	70 - 125	
9.18			286								
9.27			3431								
9.63			3556								
9.91			947								
10.27			502								
10.46			828								
10.72			1765								
10.85			348								
11.33			328								
11.57			42100								
11.74			404								
11.82			5143								
12.04			8573								
12.15			403								
12.28			13835								
12.41			805								
12.47	12.38	12.52	4485	2589888	Heptachlor	0.001732	0.288623	1.700000			J
12.72			6444								
12.95			1479								

CompuChem

Lab Smp Id : 0052405-BLK1 Client Smp Id : PBLKCE
Sample Type : BLANK Sublist : DODPEST
Inj Date : 02-JUN-2010 18:01 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PBLKCE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.04		1058								
13.18		547								
13.57		1713								
13.67		3486								
13.76		1462								
13.86		379								
13.92		471								
13.98		850								
14.05		1898								
14.15		743								
14.34		423								
14.39		929								
14.57		1273								
14.80		945								
14.89	14.84 14.98	2738	2245768	gamma-Chlordane	0.001219	0.203197	1.700000			J
15.10		2025								
15.27		349								
15.36		2717								
16.03		451								
16.58		498								
17.35		3314								
17.55		707								
17.92		7646								
18.40		456								
19.42		1210								
19.93		398								
20.11		1218								
20.25		428								
21.38		1130								
21.69		1611								
21.86	21.79 21.93	165198	1622138	Decachlorobiphenyl	0.101839	16.97317		84.9	55 - 130	
22.53		1918								
22.68		2443								
23.58		891								

Data File: /chem/tracegc82.i/f100601d_2C.b/055f0052405-BLK1.d

Date : 02-JUN-2010 18:01

Client ID: PBLKCE

Instrument: tracegc82.i

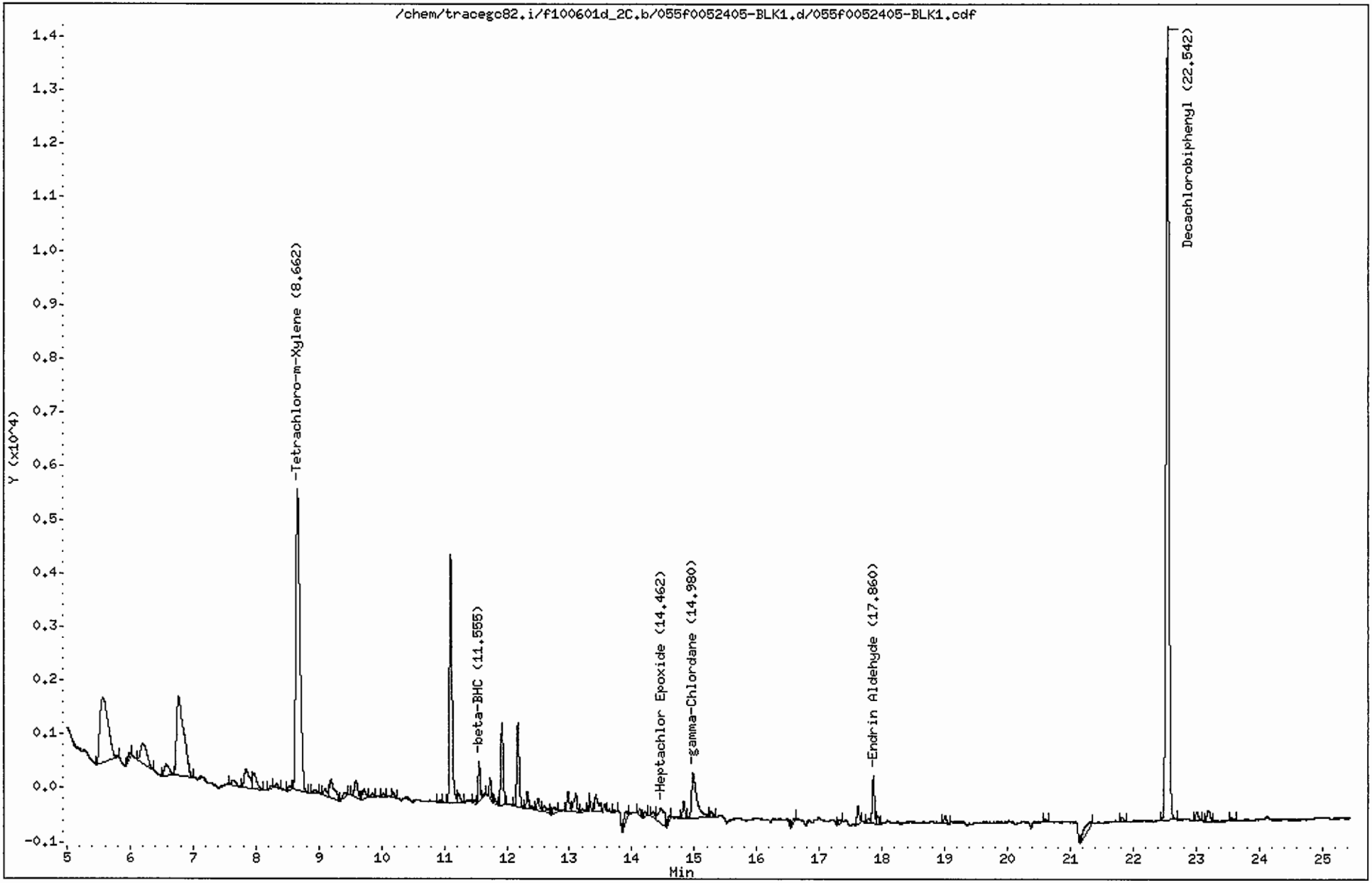
Sample Info: 0052405-BLK1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052405-BLK1 Client Smp Id : PBLKCE
Sample Type : BLANK Sublist : DODPEST
Inj Date : 02-JUN-2010 18:01 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKCE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.35			451								
1.51			44846								
2.08			40309								
3.17			6290								
3.52			99768								
4.71			3589								
5.58			11069								
5.99			325								
6.20			2680								
6.58			1198								
6.77			11565								
7.64			555								
7.84			1984								
7.97			1515								
8.23			131								
8.33			285								
8.54			213								
8.66	8.59	8.73	25674	548876	Tetrachloro-m-Xylene	0.046776	7.795932		78.0	70 - 125	
8.94			238								
9.11			411								
9.20			1877								
9.43			417								
9.59			1210								
9.72			681								
9.86			184								
10.02			194								
10.19			280								
10.94			125								
11.10			12686								
11.23			553								
11.48			161								
11.56	11.50	11.64	1610	347428	beta-BHC	0.004634	0.772343	0.851000			J
11.63			169								
11.73			829								
11.81			165								
11.92			3961								
12.18			4151								

6/3/10

CompuChem

Lab Smp Id : 0052405-BLK1 Client Smp Id : PBLKCE
Sample Type : BLANK Sublist : DODPEST
Inj Date : 02-JUN-2010 18:01 Inst ID :
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : PBLKCE

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.33		725								
12.39		177								
12.50		650								
12.60		504								
12.76		374								
12.97		935								
13.10		1177								
13.20		205								
13.32		249								
13.43		1244								
13.63		147								
13.73		130								
13.91		763								
14.13		338								
14.21		219								
14.34		374								
14.46	14.45 14.59	1883	683115	Heptachlor Epoxide	0.002755	0.459171	1.700000			J
14.60		282								
14.83		789								
14.98	14.88 15.02	4771	690205	gamma-Chlordane	0.006911	1.151832	1.700000			J
15.27		378								
16.61		280								
17.32		187								
17.61		794								
17.78		238								
17.86	17.81 17.95	2205	425754	Endrin Aldehyde	0.005179	0.863175	3.300000			J
17.93		380								
19.00		424								
20.60		162								
21.31		1071								
21.82		263								
22.54	22.47 22.61	48221	497254	Decachlorobiphenyl	0.096972	16.16208		80.8	55 - 130	
23.01		550								
23.19		717								
23.56		168								

CompuChem

ASSIGNED TO J. Williams

EXTRACTION WORKSHEET

PEST/PCB IN S/S/S BY METHOD 3550B/C for 8081/8082

DATE/TIME EXTRACTED: 5-24-10 1115

5-25-1

EMPLOYEE ID # 1289

BATCH NO.: 0052405

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE WEIGHT (g)	FINAL VOLUME (ml)	COMMENTS
1	0052405-BLK1	PBLKCE	MB	30.0	5.0	** Samples need to be GPC'd **
2	0052405-BS1	PCELCS	LCS	30.0		
3	0052405-BSD1	PCELCSD	LCSD	30.0		ML 5-25-10
4	1005132-15	SS81-0-1	SAMPLE	30.0		
5	1005132-16	SB81-5-6	SAMPLE	30.0		
6	1005132-17	SS71-0-1	SAMPLE	30.0		GPC (3640A) PERFORMED? (Y) N
7	1005132-18	SS71D-0-1	SAMPLE	30.0		FLORISIL PERFORMED? Y / (N)
8	1005132-19	SB71-4-5	SAMPLE	30.0		
9	1005132-20	SB71D-4-5	SAMPLE	30.0	5.0	
10						
11						
12						ML 5-25-10
13						
14						
15		ML 5-25-10				
16						
17						
18						
19						
20						
21						
22						
23						
24						GPC Run Date: 5-24-10
25						GPC #: 2
26						GPC Calib Date: 5-20-10

		AMOUNT	LOT	SURROGATE AND SPIKE ADDED BY:
SURROGATE	449	0.5 ml	OE07004	TMW 5-24-10
SPIKE	4030	1.0 ml	OE14001	INITIALS DATE

FINAL VOLUME VERIFIED: ML 5-25-10

REVIEWED BY: VGL

Witness NA, 5-24-10 (Initials, Date)

Analysts initials. Extract TMW KD BP N2 BP Bottle up ML

Balance: SHIMADZU-BL31D

Manufacturers and lot numbers of reagents/solvents used: 50/50 CH_2Cl_2/CH_3COCH_3-2XX8-650-9, Na_2SO_4-2XB-650-1, C_6H_{14}-73023

4/1/10:jad

586

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKFC

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/01/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601a.b/013fSEQ-CCB1.d

Date : 01-JUN-2010 21:38

Client ID: PIBLKFC

Instrument: tracegc82.i

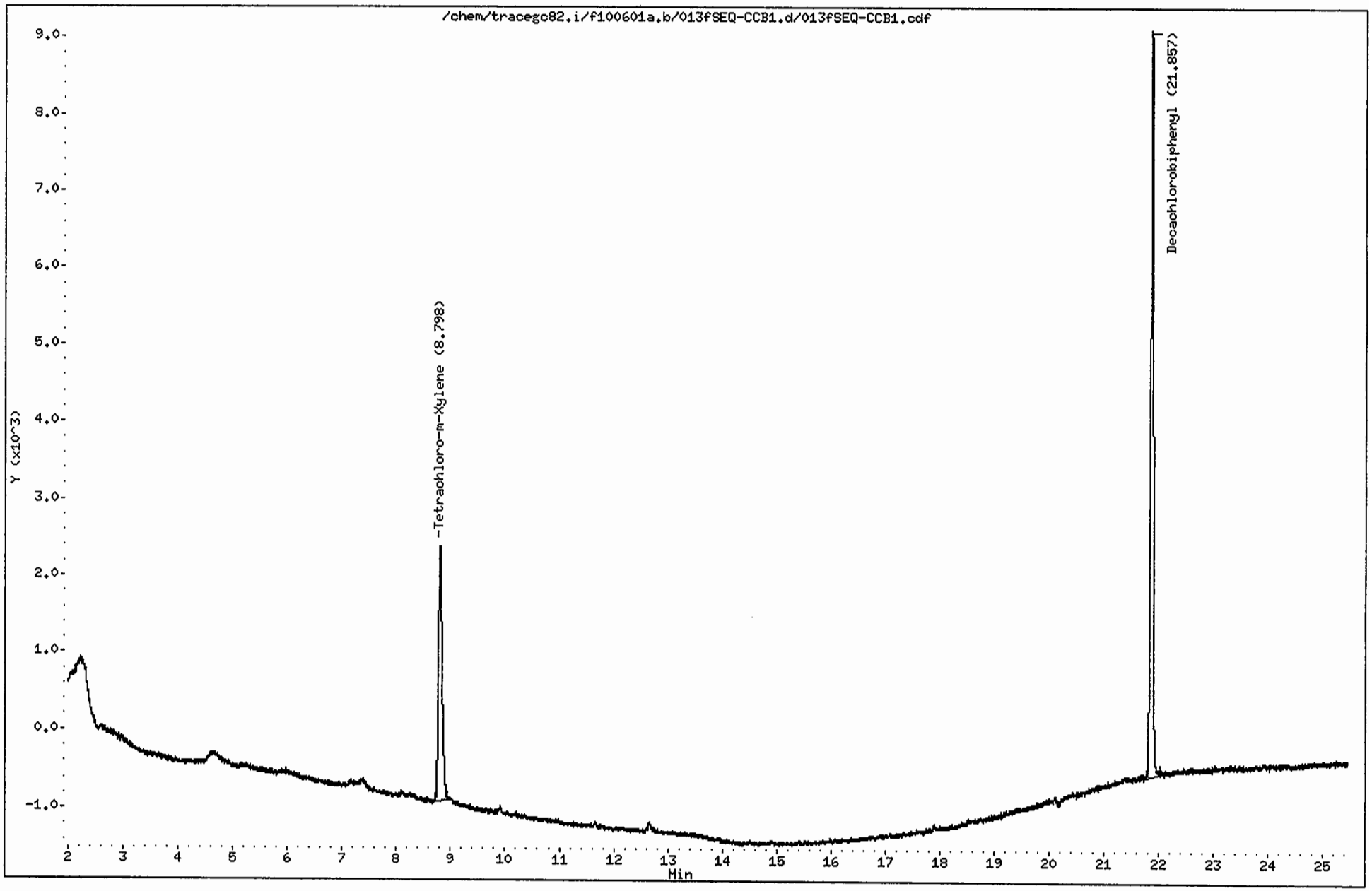
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKFC
Sample Type : INSTBLANK Sublist : all
Inj Date : 01-JUN-2010 21:38 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PIBLKFCFD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.37			1683						
1.45			32799						
8.80	8.73	8.87	15809	1587700	Tetrachloro-m-Xylene	0.009957	0.049785		
21.86	21.79	21.93	31964	1622138	Decachlorobiphenyl	0.019705	0.098523		

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKFD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/01/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601a_2C.b/013fSEQ-CCB1.d

Page 1

Date : 01-JUN-2010 21:38

Client ID: PIBLKFD

Instrument: tracegc82.i

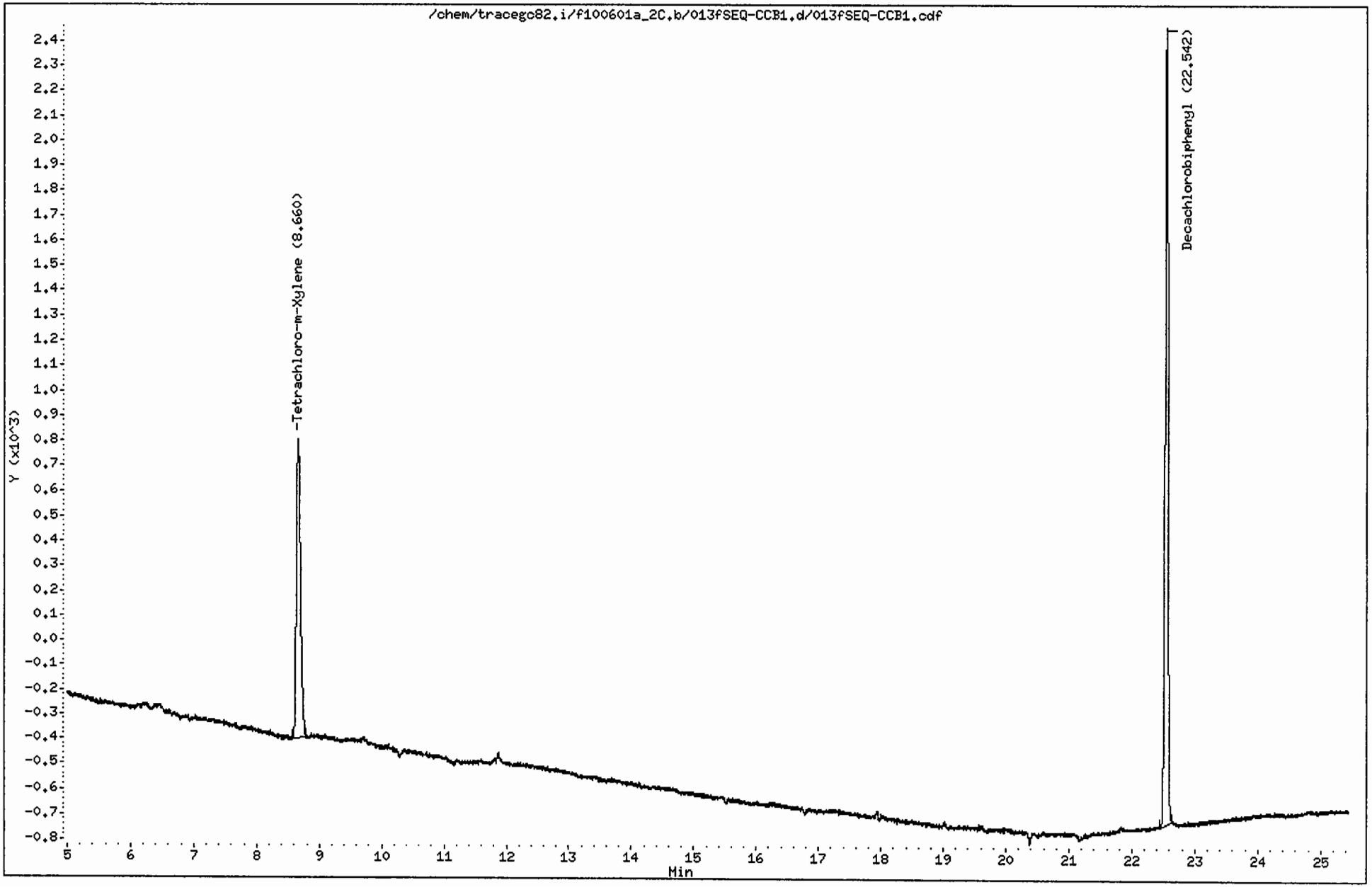
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKFD
Sample Type : INSTBLANK Sublist : all
Inj Date : 01-JUN-2010 21:38 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKFCFD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
0.07			159						
1.35			716						
1.48			66921						
8.66	8.59	8.73	5563	548876	Tetrachloro-m-Xylene	0.010135	0.050674		
22.54	22.47	22.61	10282	497254	Decachlorobiphenyl	0.020677	0.103386		

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKFE

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601b.b/026fSEQ-CCB2.d

Page 1

Date : 02-JUN-2010 03:57

Client ID: PIBLKFE

Instrument: tracegc82.i

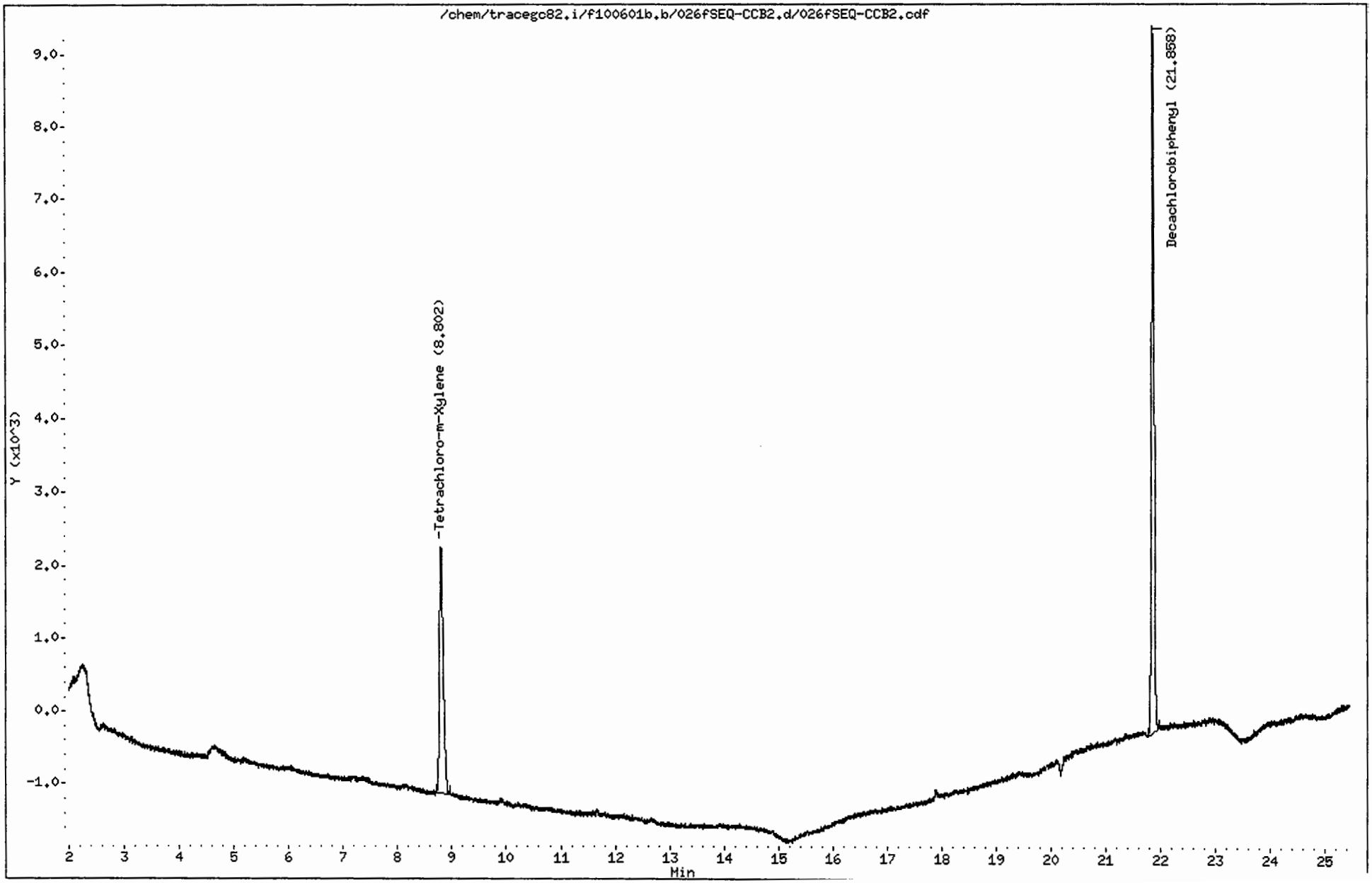
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKFE
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-JUN-2010 03:57 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b.b/8081A_clpestv6.m
Misc. Info : PIBLKFEFF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
0.03			449						
1.04			330						
1.33			704						
1.37			1321						
1.45			32246						
8.80	8.73	8.87	16475	1587700	Tetrachloro-m-Xylene	0.010377	0.051884		
21.86	21.79	21.93	31257	1622138	Decachlorobiphenyl	0.019269	0.096345		

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKFF

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601b_2C.b/026fSEQ-CCB2.d

Date : 02-JUN-2010 03:57

Client ID: PIBLKFF

Instrument: tracegc82.i

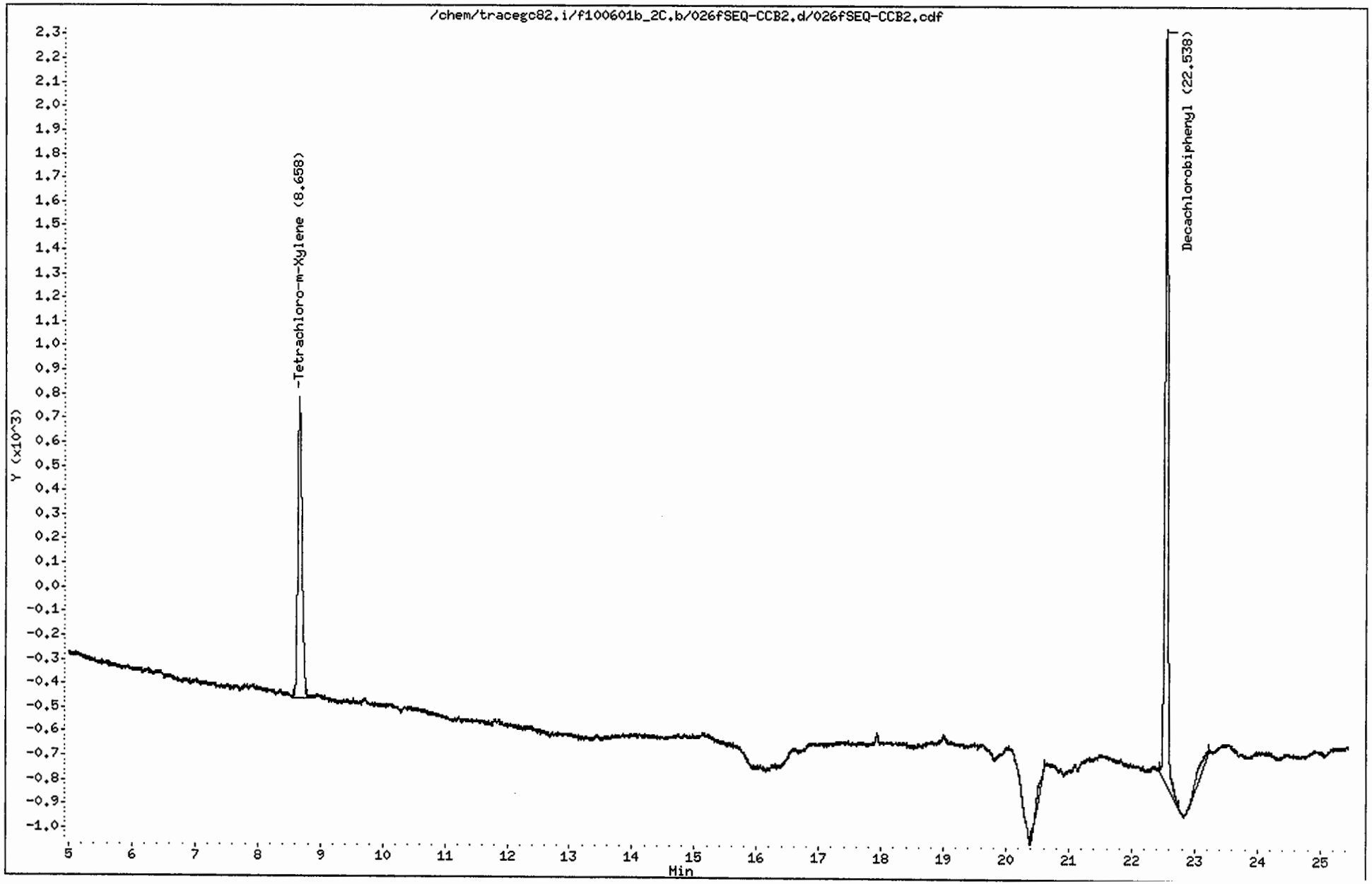
Sample Info: SEQ-CCB2

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB2 Client Smp Id : PIBLKFF
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-JUN-2010 03:57 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601b_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKFEFF

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.35			501						
1.50			36641						
2.59			275						
8.66	8.59	8.73	5749	548876	Tetrachloro-m-Xylene	0.010474	0.052370		
20.60			398						
22.54	22.47	22.61	10385	497254	Decachlorobiphenyl	0.020885	0.104426		
23.20			582						

6/2/10

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKFG

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601c.b/039fSEQ-CCB3.d

Page 1

Date : 02-JUN-2010 10:15

Client ID: PIBLKFG

Instrument: tracegc82.i

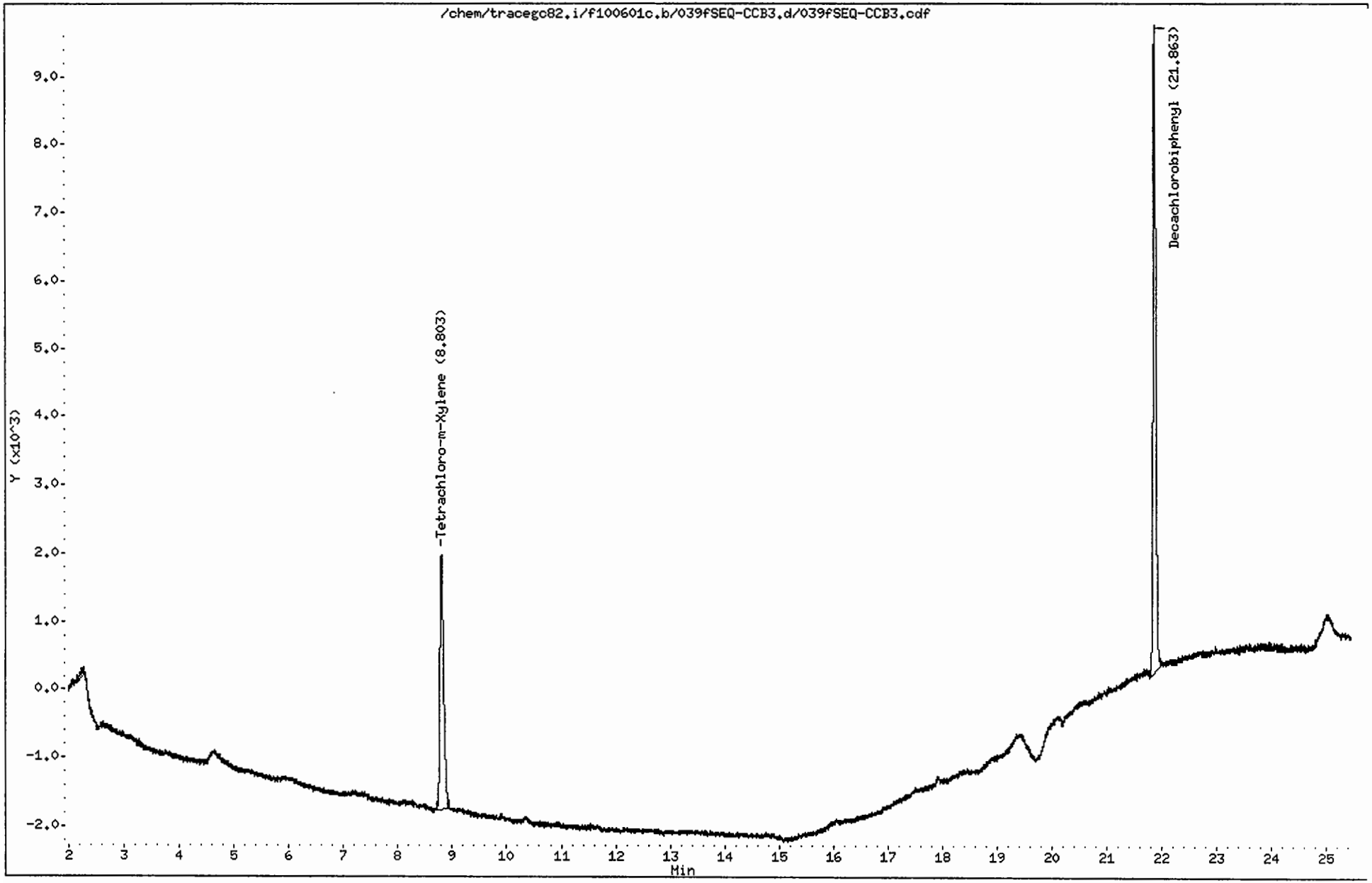
Sample Info: SEQ-CCB3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB3 Client Smp Id : PIBLKFG
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-JUN-2010 10:15 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c.b/8081A_clpestv6.m
Misc. Info : PIBLKFGFH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
0.05			341						
1.38			3082						
1.45			35287						
2.23			514						
8.80	8.73	8.87	17823	1587700	Tetrachloro-m-Xylene	0.011226	0.056128		
21.86	21.79	21.93	32863	1622138	Decachlorobiphenyl	0.020259	0.101296		
24.13			316						

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKFH

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601c_2C.b/039fSEQ-CCB3.d

Date : 02-JUN-2010 10:15

Client ID: PIBLKFH

Instrument: tracegc82.i

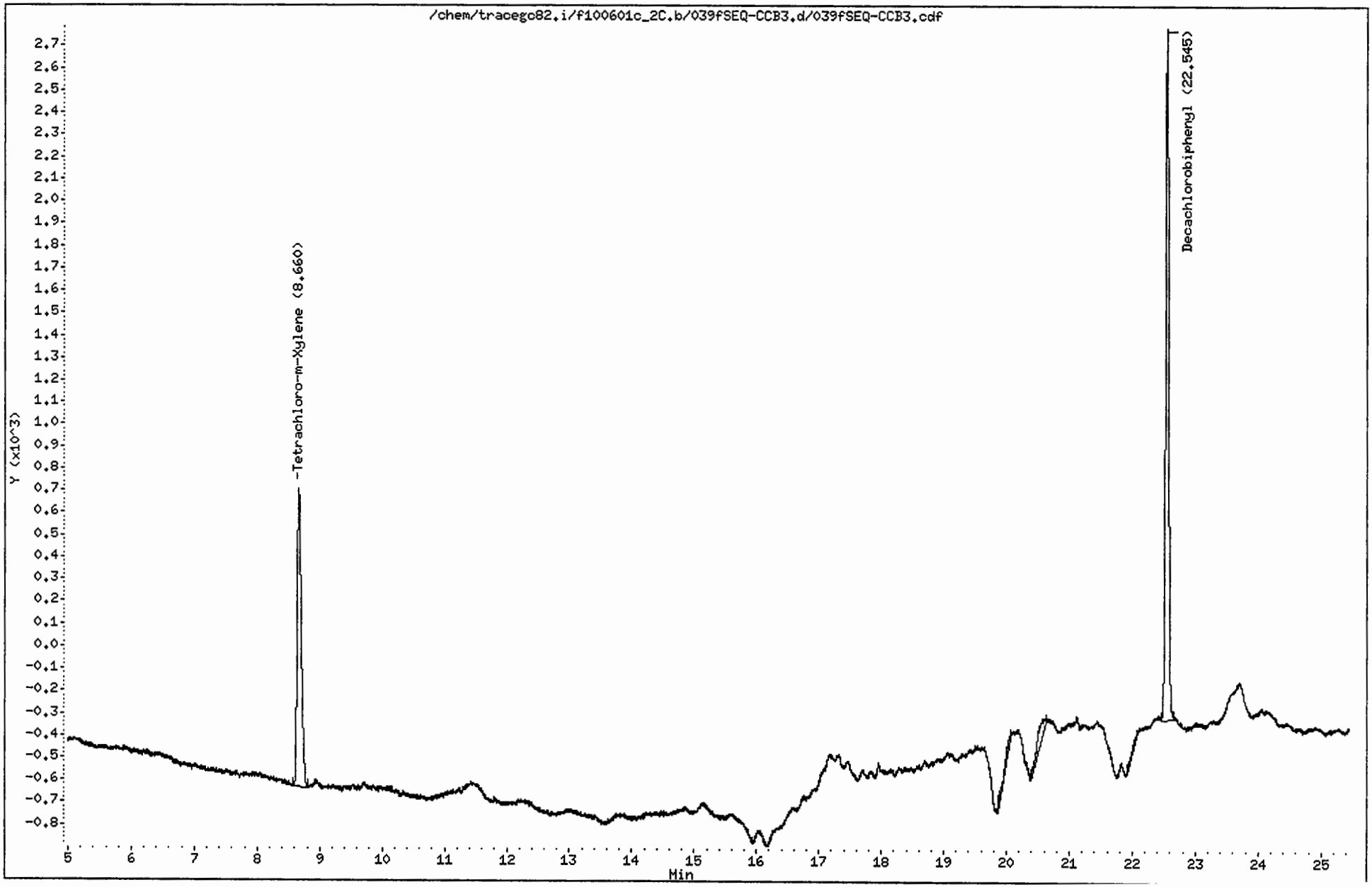
Sample Info: SEQ-CCB3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB3 Client Smp Id : PIBLKFH
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-JUN-2010 10:15 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601c_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKFGFH

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
0.05			147						
1.35			680						
1.50			70940						
2.57			168						
8.66	8.59	8.73	6218	548876	Tetrachloro-m-Xylene	0.011328	0.056641		
20.06			327						
20.57			755						
22.06			144						
22.54	22.47	22.61	10266	497254	Decachlorobiphenyl	0.020645	0.103225		

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKFI

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601d.b/052fSEQ-CCB4.d

Page 1

Date : 02-JUN-2010 16:34

Client ID: PIBLKFI

Instrument: tracegc82.i

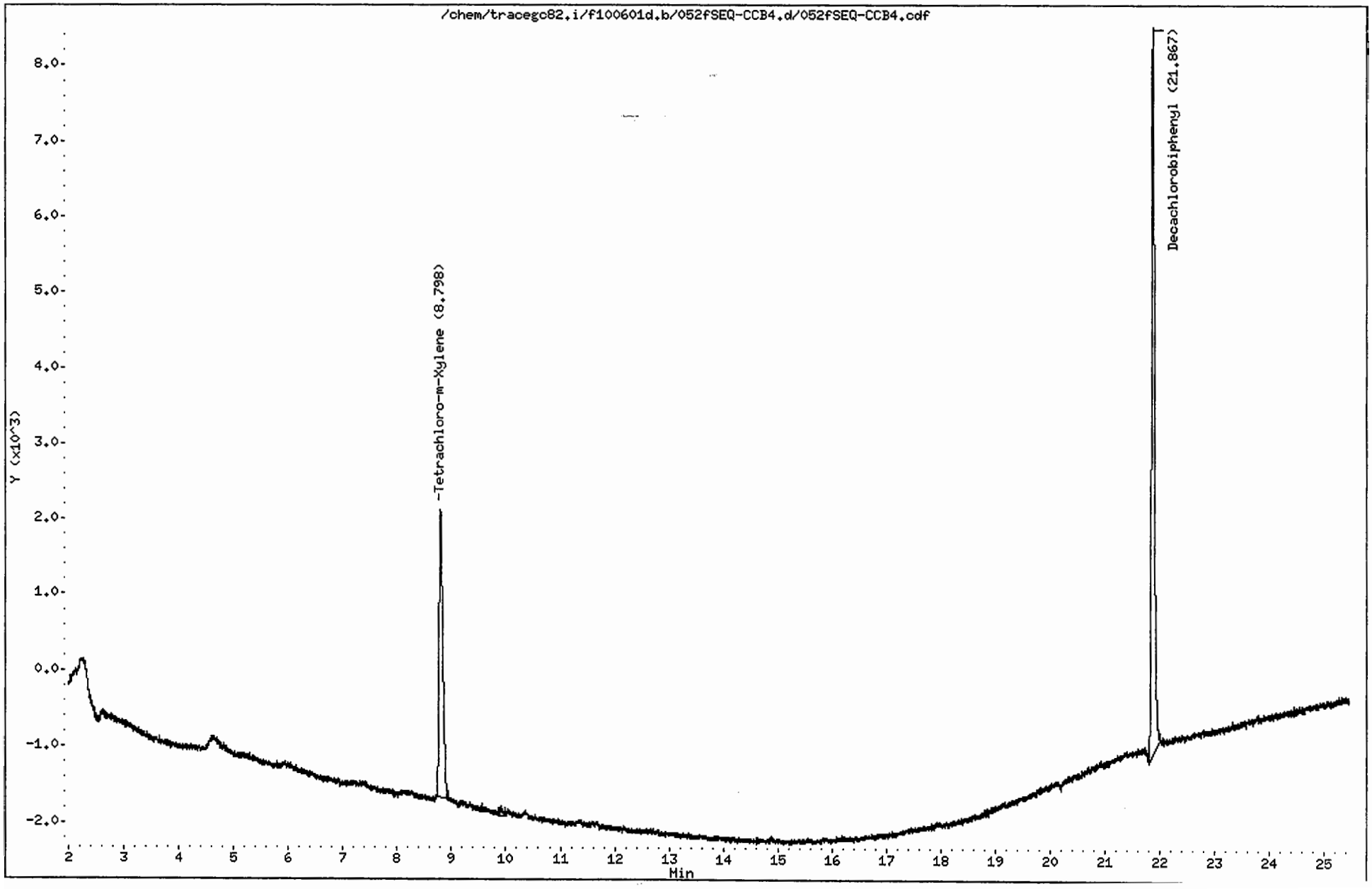
Sample Info: SEQ-CCB4

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB4 Client Smp Id : PIBLKFI
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-JUN-2010 16:34 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PIBLKFIFJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.04			292						
1.32			469						
1.37			2242						
1.45			28350						
8.80	8.73	8.87	17927	1587700	Tetrachloro-m-Xylene	0.011291	0.056456		
9.90			424						
21.87	21.79	21.93	34910	1622138	Decachlorobiphenyl	0.021521	0.107604		

6/4/10

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKFJ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB4

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601d_2C.b/052fSEQ-CCB4.d

Date : 02-JUN-2010 16:34

Client ID: PIBLKFJ

Instrument: tracegc82.i

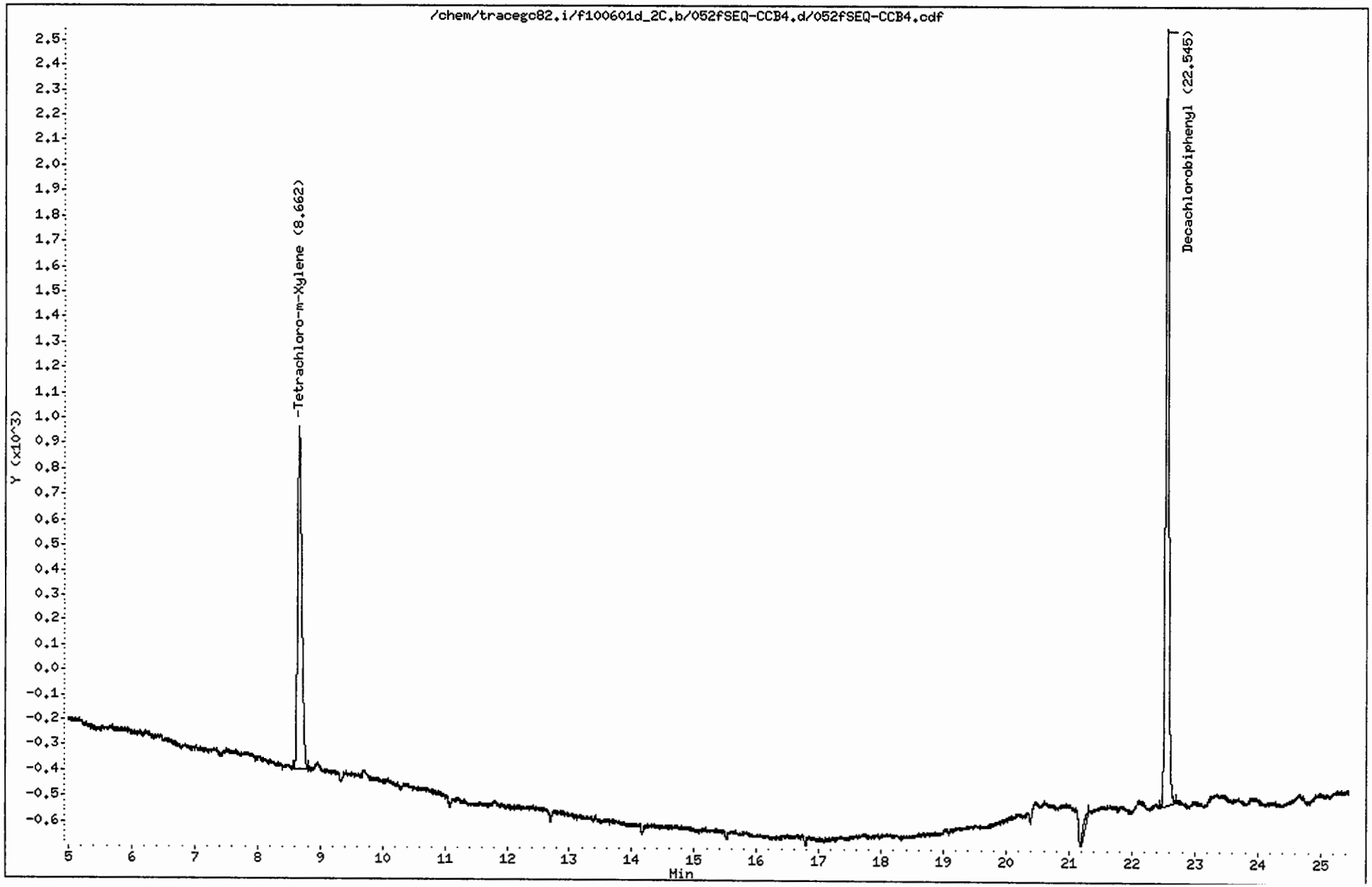
Sample Info: SEQ-CCB4

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB4 Client Smp Id : PIBLKFJ
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-JUN-2010 16:34 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKFIFJ

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.35			550						
1.50			65190						
2.59			293						
8.66	8.59	8.73	6232	548876	Tetrachloro-m-Xylene	0.011354	0.056772		
21.30			214						
22.54	22.47	22.61	10647	497254	Decachlorobiphenyl	0.021411	0.107054		

6/4/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKFK

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601e.b/065fSEQ-CCB1.d

Date : 02-JUN-2010 22:52

Client ID: PIBLKFK

Instrument: tracegc82.i

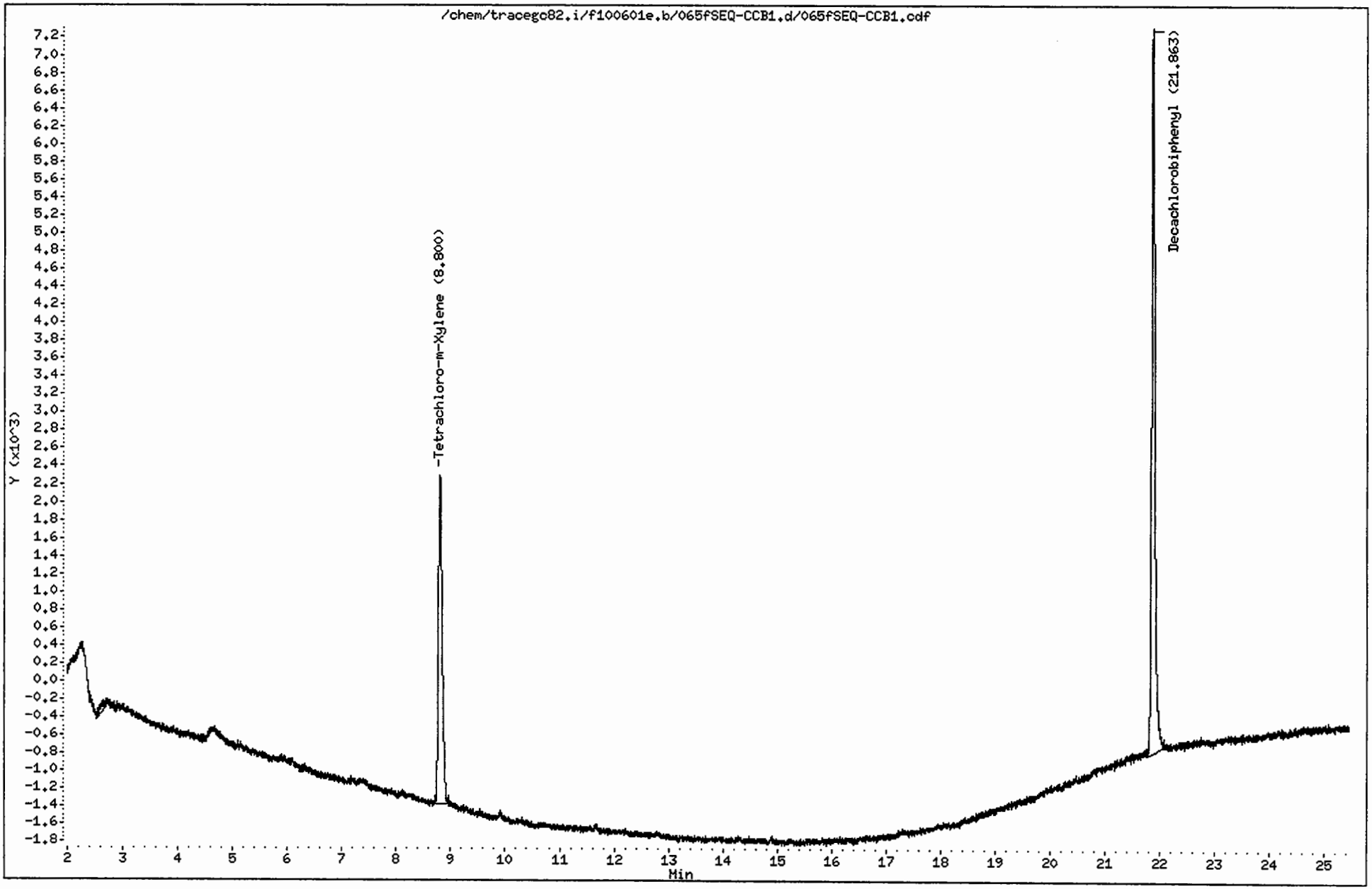
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKFK
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-JUN-2010 22:52 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601e.b/8081A_clpestv6.m
Misc. Info : PIBLKFKFL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.37			1971						
1.45			29093						
2.64			576						
8.80	8.73	8.87	17695	1587700	Tetrachloro-m-Xylene	0.011145	0.055725		
21.86	21.79	21.93	32538	1622138	Decachlorobiphenyl	0.020059	0.100294		

6/5/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKFL

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601e_2C.b/065fSEQ-CCB1.d

Page 1

Date : 02-JUN-2010 22:52

Client ID: PIBLKFL

Instrument: tracegc82.i

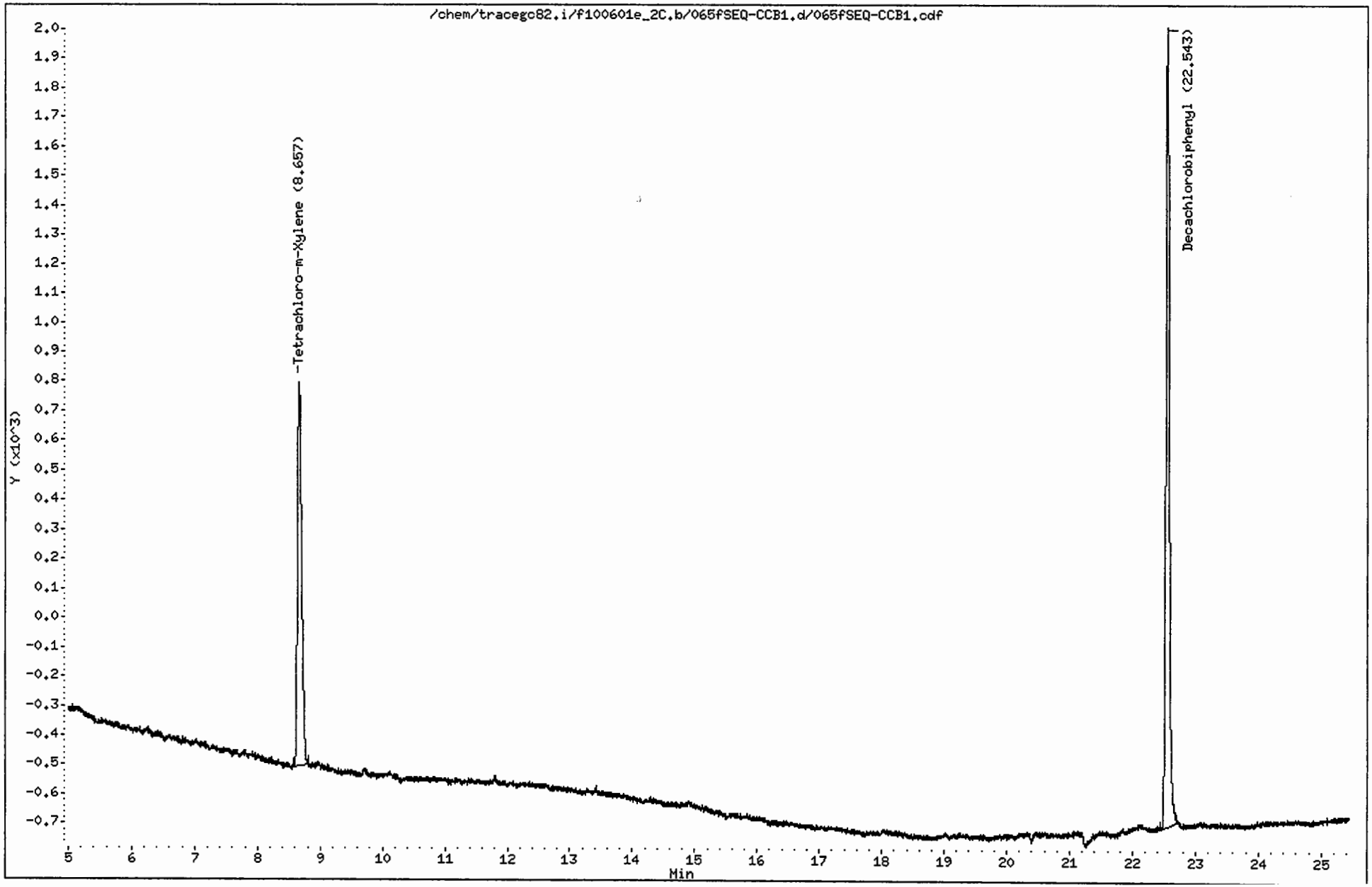
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKFL
Sample Type : INSTBLANK Sublist : all
Inj Date : 02-JUN-2010 22:52 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601e_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKFKFL

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.36			554						
1.51			66138						
2.58			248						
8.66	8.59	8.73	6053	548876	Tetrachloro-m-Xylene	0.011029	0.055144		
22.54	22.47	22.61	10123	497254	Decachlorobiphenyl	0.020357	0.101785		

6/3/10

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKFO

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-IBL3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) _____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601g.b/093fSEQ-IBL3.d

Date : 03-JUN-2010 13:59

Client ID: PIBLKF0

Instrument: tracegc82.i

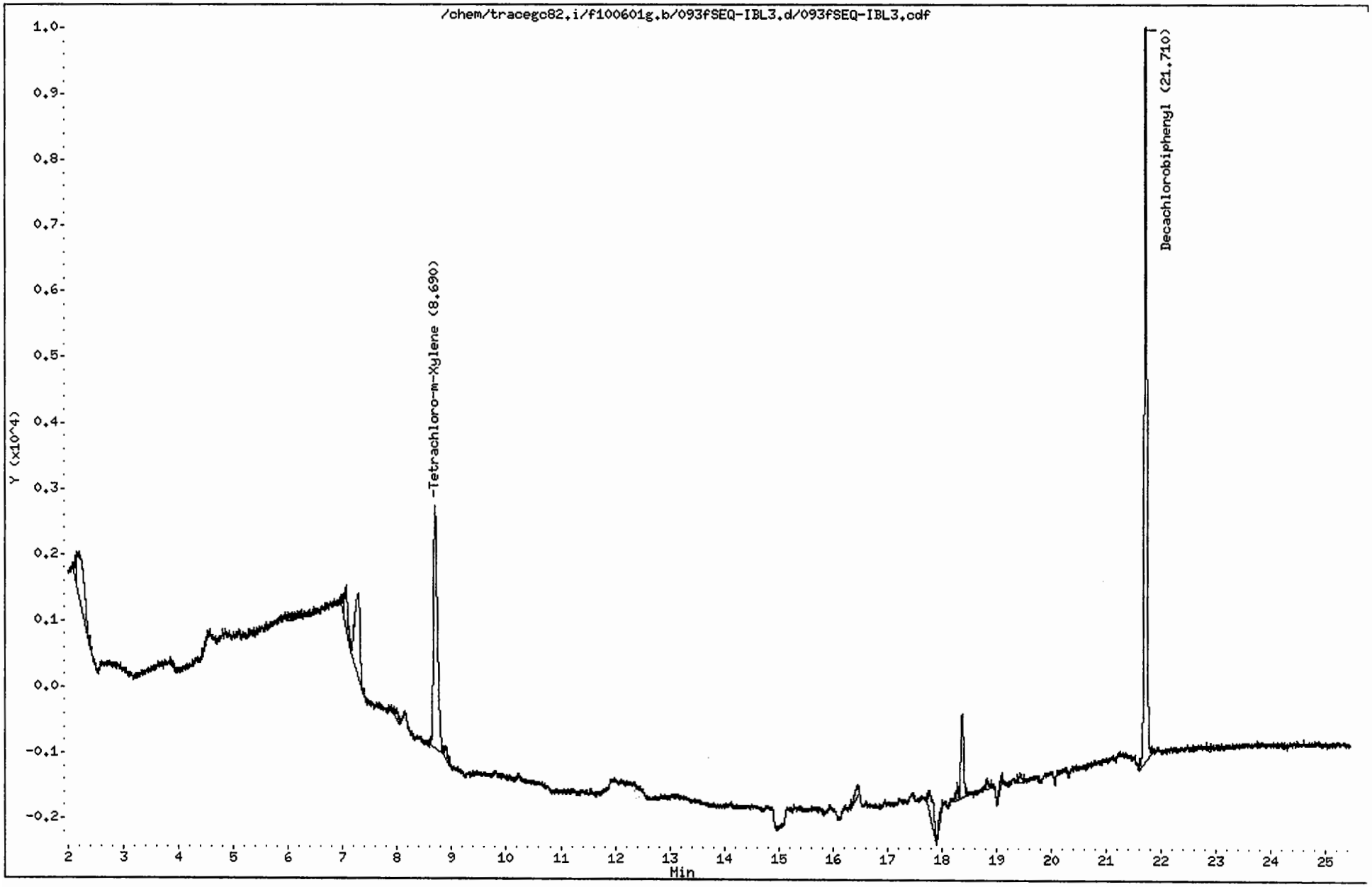
Sample Info: SEQ-IBL3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-IBL3 Client Smp Id : PIBLKFO
Sample Type : INSTBLANK Sublist : all
Inj Date : 03-JUN-2010 13:59 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g.b/8081A_clpestv6.m
Misc. Info : PIBLKFOFP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
0.36			336						
1.05			433						
1.20			437						
1.43			60458						
2.14			809						
2.20			6557						
4.52			322						
6.01			280						
7.00			578						
7.06			2294						
7.27			8260						
7.97			447						
8.69	8.63	8.77	18445	1587700	Tetrachloro-m-Xylene	0.011617	0.058086		
8.89			829						
16.42			933						
17.77			2769						
18.00			629						
18.28			590						
18.36			4553						
18.84			395						
19.08			601						
19.43			387						
21.71	21.64	21.78	35822	1622138	Decachlorobiphenyl	0.022083	0.110416		
22.82			286						

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKFP

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-IBL3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601g_2C.b/093fSEQ-IBL3.d

Date : 03-JUN-2010 13:59

Client ID: PIBLKFP

Instrument: tracegc82.i

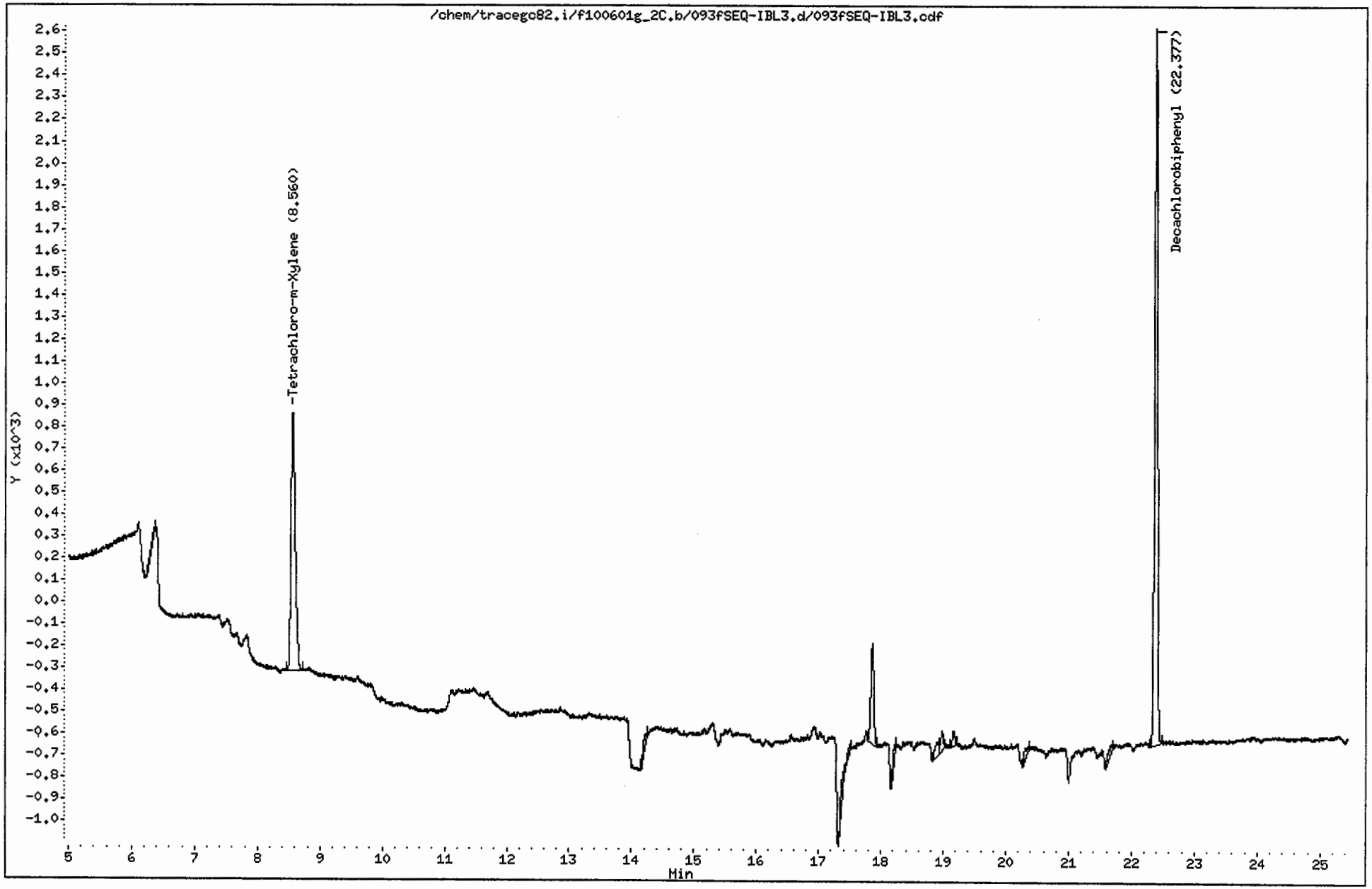
Sample Info: SEQ-IBL3

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-IBL3 Client Smp Id : PIBLKFP
Sample Type : INSTBLANK Sublist : all
Inj Date : 03-JUN-2010 13:59 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601g_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKFOFP

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
1.05			430						
1.46			98311						
2.58			279						
6.36			220						
8.56	8.49	8.63	5451	548876	Tetrachloro-m-Xylene	0.009931	0.049654		
14.24			182						
17.41			417						
17.51			220						
17.86			1516						
18.23			186						
18.90			290						
18.98			257						
19.16			213						
20.34			184						
21.68			228						
22.38	22.31	22.45	10136	497254	Decachlorobiphenyl	0.020383	0.101917		

6/3/10

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PIBLKFQ

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601h.b/100fSEQ-CCB1.d

Date : 03-JUN-2010 18:08

Client ID: PIBLKFQ

Instrument: tracegc82.i

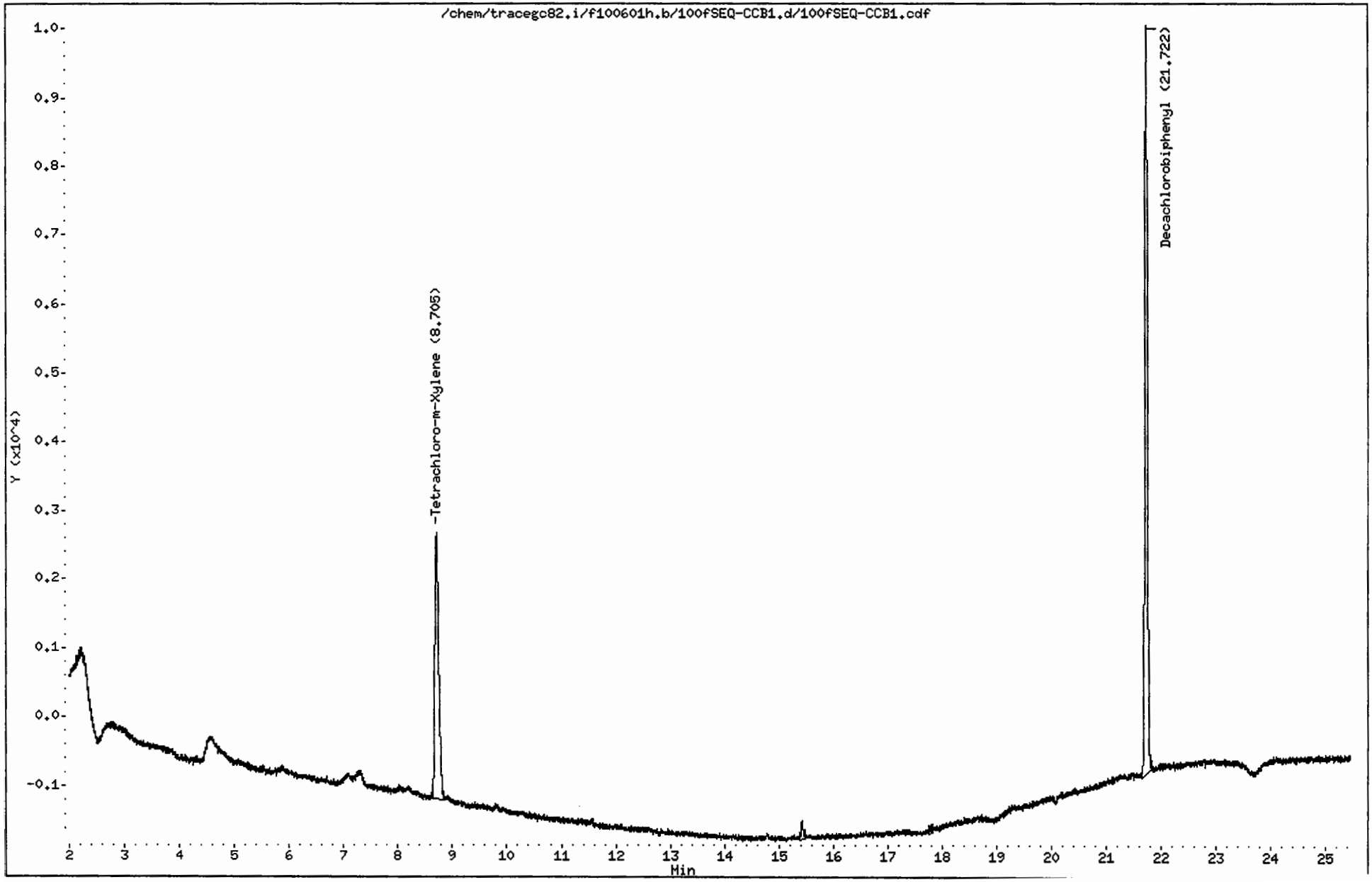
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKFQ
Sample Type : INSTBLANK Sublist : all
Inj Date : 03-JUN-2010 18:08 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601h.b/8081A_clpestv6.m
Misc. Info : PIBLKFQFR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
0.07			361						
1.04			898						
1.13			1158						
1.21			1672						
1.26			1180						
1.36			5719						
1.43			38527						
2.17			463						
8.70	8.63	8.77	18947	1587700	Tetrachloro-m-Xylene	0.011934	0.059669		
15.42			600						
17.79			357						
21.72	21.64	21.78	34642	1622138	Decachlorobiphenyl	0.021356	0.106778		

1D

EPA SAMPLE NO.

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

PIBLKFR

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) WATER Lab Sample ID: SEQ-CCB1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) ____ Date Extracted:_____

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/03/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-85-7	beta-BHC	0.050	U
319-84-6	alpha-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
72-54-8	4,4'-DDD	0.10	U
72-55-9	4,4'-DDE	0.10	U
50-29-3	4,4'-DDT	0.10	U
60-57-1	Dieldrin	0.10	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
72-20-8	Endrin	0.10	U
7421-93-4	Endrin Aldehyde	0.10	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor Epoxide	0.050	U
72-43-5	Methoxychlor	0.50	U
8001-35-2	Toxaphene	2.5	U
53494-70-5	Endrin Ketone	0.10	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

Data File: /chem/tracegc82.i/f100601h_2C.b/100fSEQ-CCB1.d

Page 1

Date : 03-JUN-2010 18:08

Client ID: PIBLKFR

Instrument: tracegc82.i

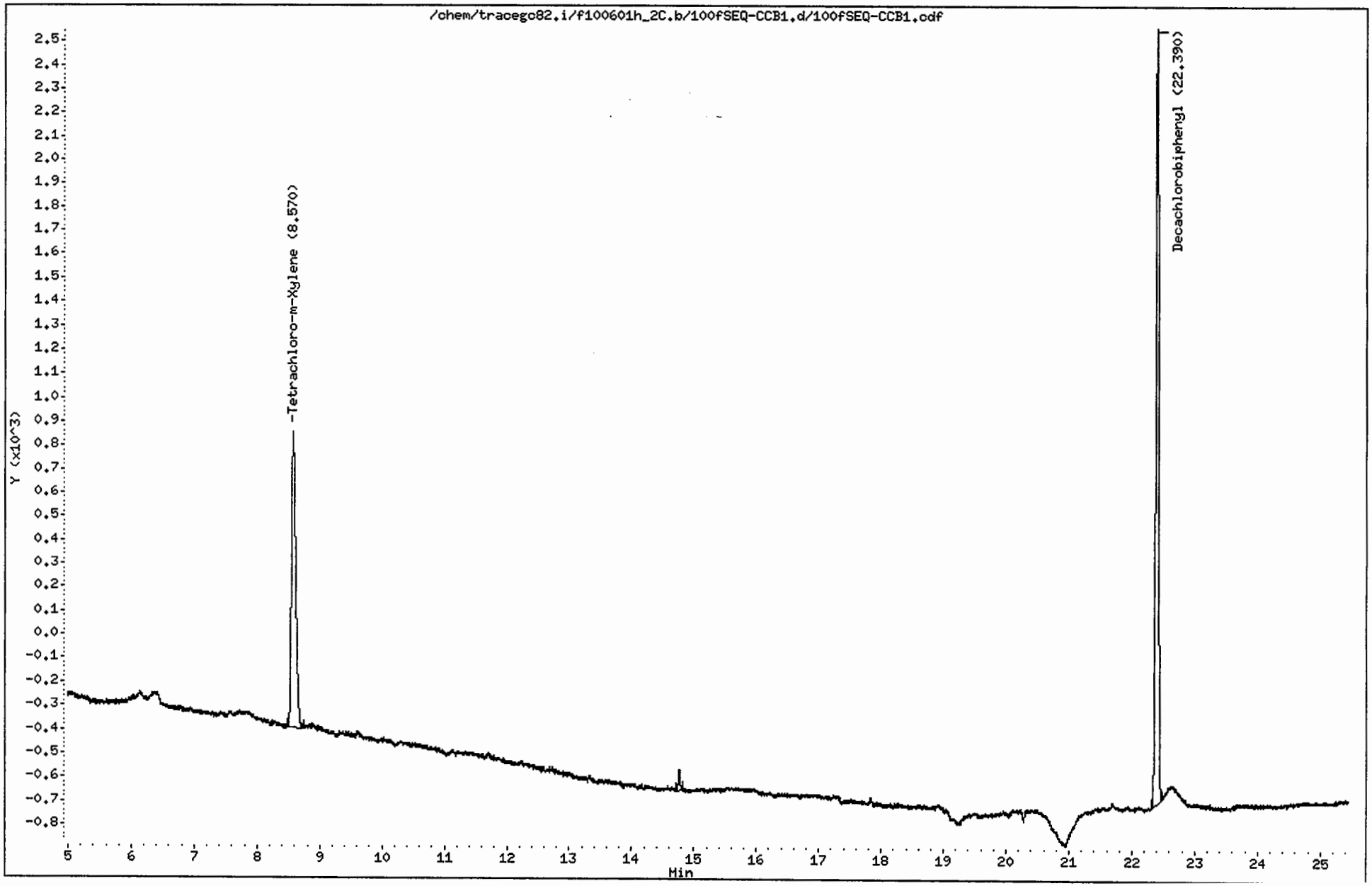
Sample Info: SEQ-CCB1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : SEQ-CCB1 Client Smp Id : PIBLKFR
Sample Type : INSTBLANK Sublist : all
Inj Date : 03-JUN-2010 18:08 Inst ID : TRACEGC82
Operator : BWL
Method : /chem/tracegc82.i/f100601h_2C.b/8081A_clpest2v6.m
Misc. Info : PIBLKFQFR

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Vo))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Vo Sample Volume: 1000.0(ml)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/L)	ADJUSTED PQL (ug/L)	FLAGS
0.08			158						
1.34			447						
1.48			32914						
2.63			285						
8.57	8.49	8.63	5875	548876	Tetrachloro-m-Xylene	0.010704	0.053522		
14.76			197						
22.39	22.31	22.45	10048	497254	Decachlorobiphenyl	0.020206	0.101032		

6/4/10

b. Laboratory Control Sample Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBOLCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/01/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.8	
319-85-7	beta-BHC	4.1	
319-84-6	alpha-BHC	4.5	
319-86-8	delta-BHC	4.8	
58-89-9	gamma-BHC (Lindane)	4.2	
72-54-8	4,4'-DDD	12	
72-55-9	4,4'-DDE	11	
50-29-3	4,4'-DDT	15	
60-57-1	Dieldrin	12	
959-98-8	Endosulfan I	4.3	
33213-65-9	Endosulfan II	11	
1031-07-8	Endosulfan sulfate	10	
72-20-8	Endrin	11	
7421-93-4	Endrin Aldehyde	6.7	
76-44-8	Heptachlor	4.9	
1024-57-3	Heptachlor Epoxide	5.0	
72-43-5	Methoxychlor	12	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	12	
5103-74-2	gamma-Chlordane	4.5	
5103-71-9	alpha-Chlordane	5.0	

Data File: /chem/tracegc82.i/f100601a.b/017f0051919-BS1.d

Page 1

Date : 01-JUN-2010 23:34

Client ID: PBOLCS

Instrument: tracegc82.i

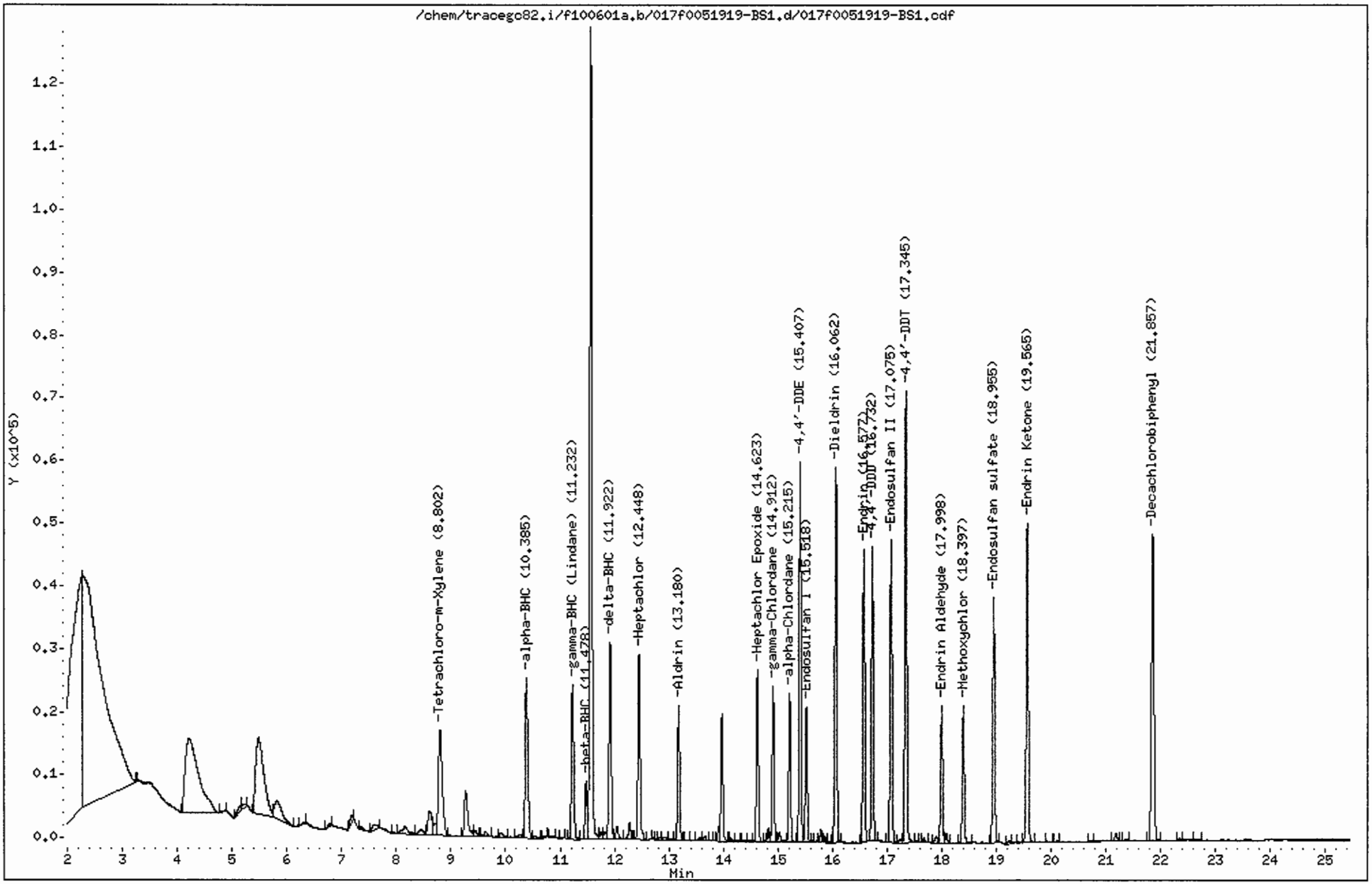
Sample Info: 0051919-BS1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051919-BS1 Client Smp Id : PBOLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 01-JUN-2010 23:34 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PBOLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.37			629								
1.47			24519								
2.26			605765								
2.30			909748								
3.27			378								
4.21			204725								
4.84			808								
5.17			4688								
5.23			2986								
5.49			124818								
5.82			27154								
6.32			597								
6.79			1237								
7.18			4194								
7.36			1838								
7.61			5962								
7.95			306								
8.16			8366								
8.45			4657								
8.61			19782								
8.72			5260								
8.80	8.73	8.87	83457	1587700	Tetrachloro-m-Xylene	0.052565	8.760789		87.6	70 - 125	
9.27			31660								
9.45			3374								
9.63			3133								
9.91			2777								
10.27			2318								
10.38	10.32	10.46	82929	3028788	alpha-BHC	0.027380	4.563377	1.700000	91.3	60 - 125	
10.54			1960								
10.72			903								
10.83			533								
11.06			296								
11.23	11.16	11.30	71584	2817265	gamma-BHC (Lindane)	0.025409	4.234840	1.700000	84.7	60 - 125	
11.48	11.41	11.55	25198	1035150	beta-BHC	0.024342	4.057061	0.851000	81.1	60 - 125	
11.57			368402								
11.75			3985								
11.83			3071								

6/2/10

CompuChem

Lab Smp Id : 0051919-BS1 Client Smp Id : PBOLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 01-JUN-2010 23:34 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PBOLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.92	11.85 11.99	89416	2721052	delta-BHC	0.032860	5.476741	1.700000	109.5	55 - 130	
12.04		6599								
12.28		7594								
12.45	12.38 12.52	81362	2589888	Heptachlor	0.031415	5.235877	1.700000	104.7	50 - 140	
12.71		600								
12.83		974								
12.93		1840								
13.04		659								
13.18	13.11 13.25	54535	2391920	Aldrin	0.022800	3.799946	1.700000	76.0	45 - 140	
13.32		419								
13.57		1861								
13.67		2388								
13.76		535								
13.85		299								
13.91		4617								
13.97		51567								
14.10		453								
14.14		1202								
14.26		562								
14.39		726								
14.49		796								
14.62	14.56 14.70	68077	2235460	Heptachlor Epoxide	0.030453	5.075540	1.700000	101.5	65 - 130	
14.75		674								
14.82		4887								
14.91	14.84 14.98	60184	2245768	gamma-Chlordane	0.026798	4.466402	1.700000	89.3	65 - 125	
15.03		4774								
15.22	15.15 15.29	57221	1924148	alpha-Chlordane	0.029738	4.956307	1.700000	99.1	65 - 120	
15.41	15.34 15.48	141063	2012896	4,4'-DDE	0.070079	11.67985	3.300000	93.4	70 - 125	
15.52	15.45 15.59	53311	2067970	Endosulfan I	0.025779	4.296484	1.700000	85.9	15 - 135	
15.63		371								
15.71		426								
15.79		4849								
15.86		2197								
15.94		463								
16.06	15.99 16.13	148509	2037205	Dieldrin	0.072898	12.14973	3.300000	97.2	65 - 125	
16.58	16.51 16.65	114669	1695798	Endrin	0.067620	11.26992	3.300000	90.2	60 - 135	
16.73	16.66 16.80	108142	1534440	4,4'-DDD	0.070477	11.74609	3.300000	94.0	30 - 135	

CompuChem

Lab Smp Id : 0051919-BS1 Client Smp Id : PBOLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 01-JUN-2010 23:34 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PBOLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.08	17.01 17.15	120210	1759840	Endosulfan II	0.068307	11.38446	3.300000	91.1	35 - 140	
17.23		1926								
17.34	17.27 17.41	173704	1722489	4,4'-DDT	0.100844	16.80737	3.300000	134.5	45 - 140	
17.55		733								
17.68		1506								
17.91		3300								
18.00	17.93 18.07	54750	1371845	Endrin Aldehyde	0.039909	6.651505	3.300000	53.2	35 - 145	
18.09		3820								
18.40	18.33 18.47	53005	731447	Methoxychlor	0.072466	12.07766	17.00000	96.6	55 - 145	J
18.96	18.89 19.03	99924	1574194	Endosulfan sulfate	0.063476	10.57928	3.300000	84.6	60 - 135	
19.23		1650								
19.41		419								
19.56	19.49 19.63	131950	1849761	Endrin Ketone	0.071334	11.88892	3.300000	95.1	65 - 135	
19.93		649								
20.11		471								
20.72		557								
21.18		3468								
21.37		1027								
21.86	21.79 21.93	156512	1622138	Decachlorobiphenyl	0.096484	16.08073		80.4	55 - 130	
22.35		1014								
22.66		1098								

Data File: /chem/tracegc82.i/f100601a_2C.b/017f0051919-BS1.d

Date : 01-JUN-2010 23:34

Client ID: PBOLCS

Instrument: tracegc82.i

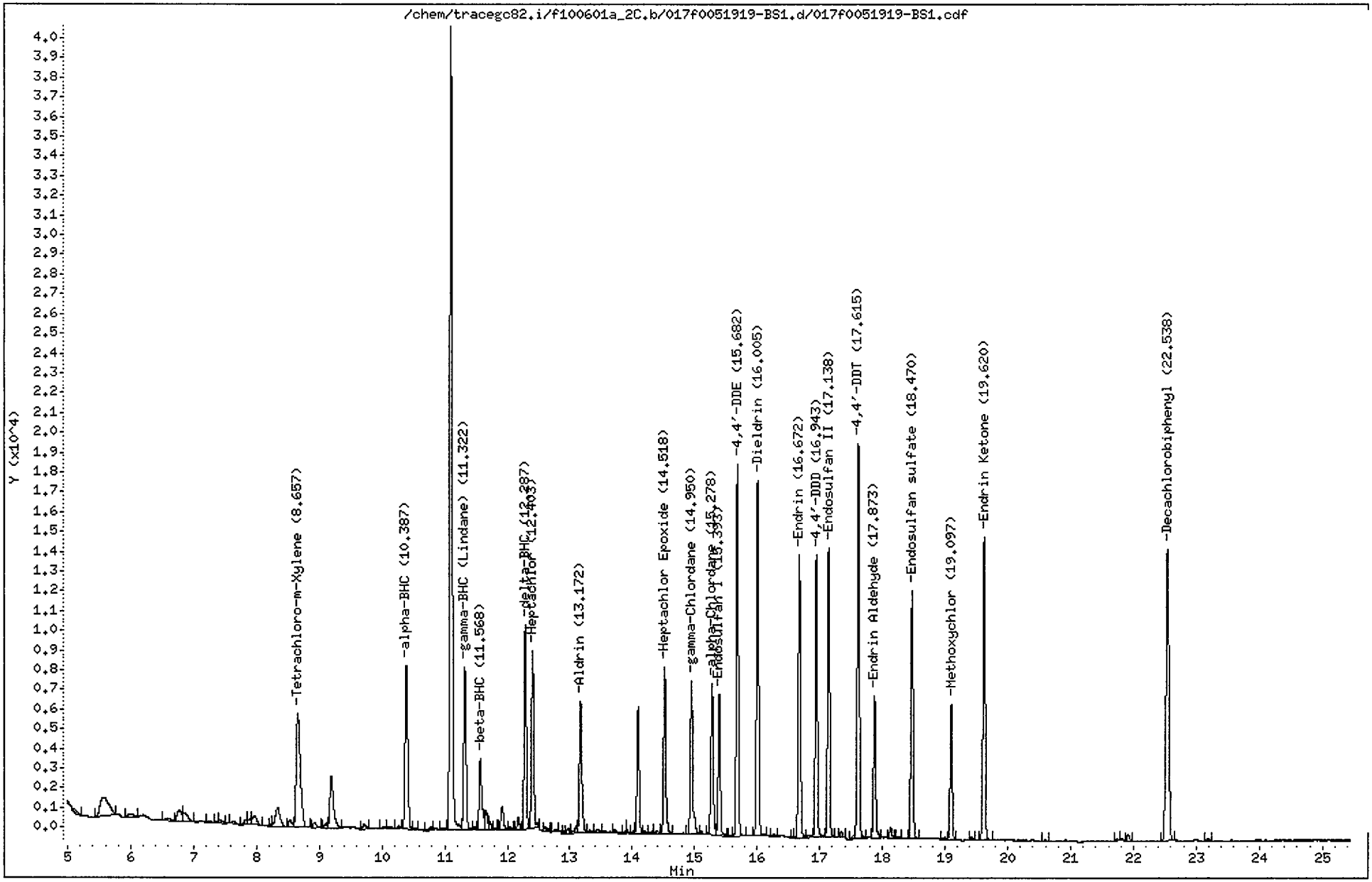
Sample Info: 0051919-BS1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051919-BS1 Client Smp Id : PBOLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 01-JUN-2010 23:34 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PBOLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.35		369								
1.54		21378								
2.07		706663								
3.13		24699								
3.52		77512								
4.43		373								
4.71		48164								
5.57		8960								
6.00		978								
6.57		813								
6.77		2697								
6.85		2610								
7.26		463								
7.38		225								
7.42		748								
7.63		619								
7.84		804								
7.90		884								
7.97		2400								
8.25		263								
8.34		5366								
8.54		1364								
8.66	8.59 8.73	26614	548876	Tetrachloro-m-Xylene	0.048488	8.081364		80.8	70 - 125	
8.92		914								
9.11		675								
9.19		10506								
9.72		1032								
10.02		230								
10.13		276								
10.27		337								
10.39	10.32 10.46	24861	916452	alpha-BHC	0.027127	4.521238	1.700000	90.4	60 - 125	
10.52		208								
10.78		487								
10.98		279								
11.10		106188								
11.32	11.25 11.39	21986	866882	gamma-BHC (Lindane)	0.025362	4.227024	1.700000	84.5	60 - 125	
11.47		349								

6/2/10

CompuChem

Lab Smp Id : 0051919-BS1 Client Smp Id : PBOLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 01-JUN-2010 23:34 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PBOLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.57	11.50 11.64	10937	347428	beta-BHC	0.031477	5.246178	0.851000	104.9	60 - 125	
11.66		2654								
11.72		932								
11.80		262								
11.85		281								
11.92		3790								
12.04		376								
12.17		1557								
12.29	12.22 12.36	24035	827595	delta-BHC	0.029042	4.840331	1.700000	96.8	55 - 130	
12.40	12.33 12.47	22705	778205	Heptachlor	0.029176	4.862685	1.700000	97.3	50 - 140	
12.61		719								
12.77		162								
12.91		154								
12.97		676								
13.10		1121								
13.17	13.10 13.24	18131	726628	Aldrin	0.024951	4.158481	1.700000	83.2	45 - 140	
13.31		452								
13.45		635								
13.72		475								
13.91		346								
14.03		238								
14.09		15434								
14.20		417								
14.31		349								
14.40		492								
14.52	14.45 14.59	20647	683115	Heptachlor Epoxide	0.030223	5.037219	1.700000	100.7	65 - 130	
14.95	14.88 15.02	20194	690205	gamma-Chlordane	0.029258	4.876329	1.700000	97.5	65 - 125	
15.11		370								
15.28	15.21 15.35	19495	595455	alpha-Chlordane	0.032738	5.456332	1.700000	109.1	65 - 120	
15.39	15.33 15.47	17438	638725	Endosulfan I	0.027300	4.549950	1.700000	91.0	15 - 135	
15.60		180								
15.68	15.61 15.75	41896	617325	4,4'-DDE	0.067865	11.31090	3.300000	90.5	70 - 125	
15.87		150								
16.00	15.94 16.08	41833	598394	Dieldrin	0.069907	11.65119	3.300000	93.2	65 - 125	
16.26		281								
16.57		212								
16.67	16.60 16.74	35122	524785	Endrin	0.066926	11.15441	3.300000	89.2	60 - 135	

CompuChem

Lab Smp Id : 0051919-BS1 Client Smp Id : PBOLCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 01-JUN-2010 23:34 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PBOLCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.81		453								
16.94	16.87 17.01	32092	454222	4,4'-DDD	0.070653	11.77543	3.300000	94.2	30 - 135	
17.14	17.07 17.21	35004	526756	Endosulfan II	0.066452	11.07533	3.300000	88.6	35 - 140	
17.34		559								
17.55		411								
17.62	17.55 17.69	46506	503765	4,4'-DDT	0.092317	15.38614	3.300000	123.1	45 - 140	
17.87	17.81 17.95	17899	425754	Endrin Aldehyde	0.042041	7.006789	3.300000	56.1	35 - 145	
18.13		1200								
18.26		178								
18.47	18.40 18.54	30221	479624	Endosulfan sulfate	0.063008	10.50129	3.300000	84.0	60 - 135	
19.00		295								
19.10	19.03 19.17	15617	208391	Methoxychlor	0.074941	12.49014	17.00000	99.9	55 - 145	J
19.42		356								
19.62	19.55 19.69	38014	535815	Endrin Ketone	0.070946	11.82435	3.300000	94.6	65 - 135	
20.60		144								
21.75		196								
21.82		190								
21.91		899								
22.54	22.47 22.61	47149	497254	Decachlorobiphenyl	0.094817	15.80277		79.0	55 - 130	
23.18		281								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBOLCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-BSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.6	
319-85-7	beta-BHC	4.1	
319-84-6	alpha-BHC	4.4	
319-86-8	delta-BHC	4.6	
58-89-9	gamma-BHC (Lindane)	3.9	
72-54-8	4,4'-DDD	11	
72-55-9	4,4'-DDE	11	
50-29-3	4,4'-DDT	10	
60-57-1	Dieldrin	11	
959-98-8	Endosulfan I	4.1	
33213-65-9	Endosulfan II	11	
1031-07-8	Endosulfan sulfate	10	
72-20-8	Endrin	11	
7421-93-4	Endrin Aldehyde	6.0	
76-44-8	Heptachlor	4.7	
1024-57-3	Heptachlor Epoxide	4.6	
72-43-5	Methoxychlor	12	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	11	
5103-74-2	gamma-Chlordane	4.3	
5103-71-9	alpha-Chlordane	4.8	

Data File: /chem/tracegc82.i/f100601a.b/018f0051919-BSD1.d

Date : 02-JUN-2010 00:04

Client ID: PBOLCSD

Instrument: tracegc82.i

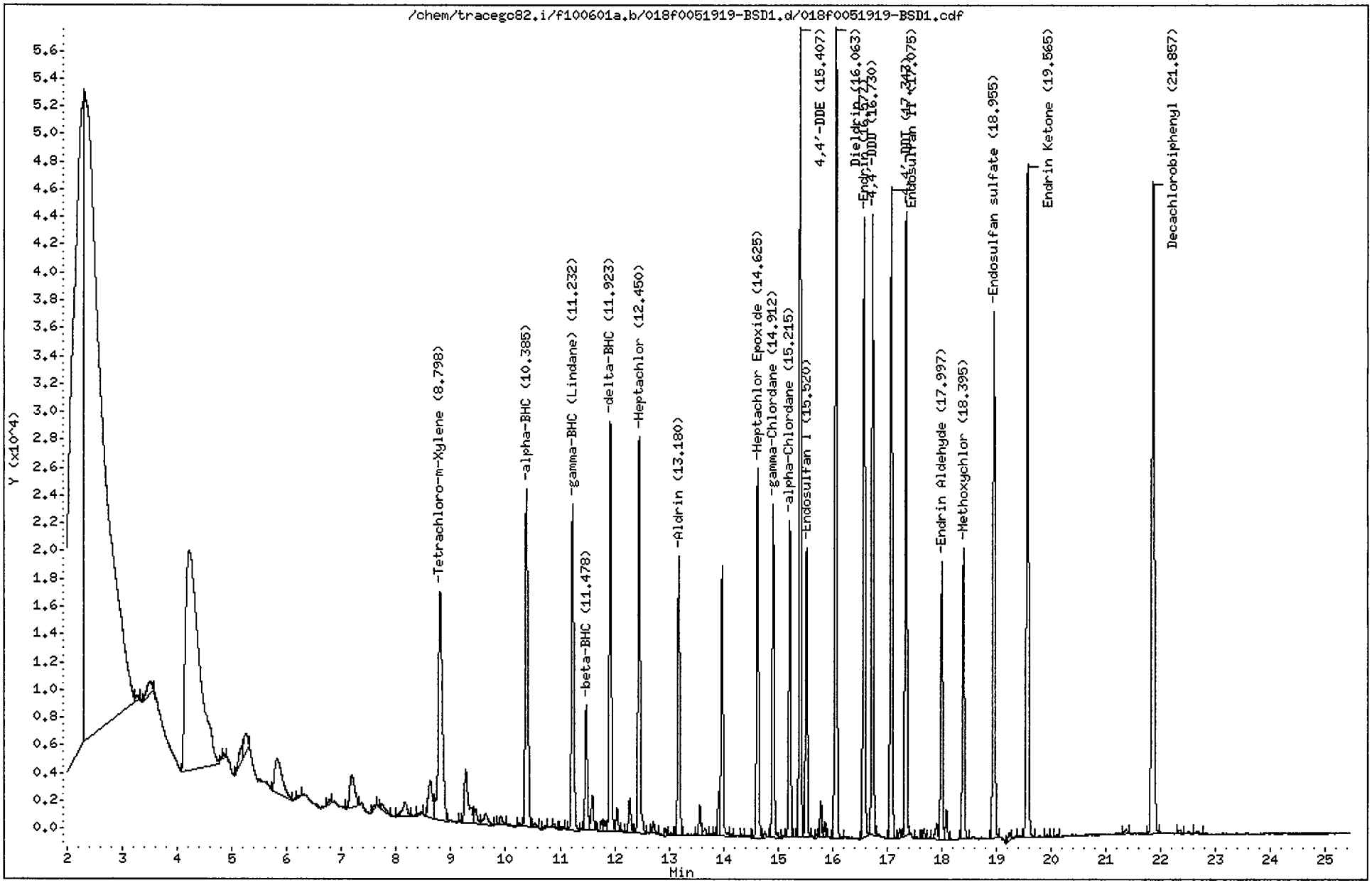
Sample Info: 0051919-BSD1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



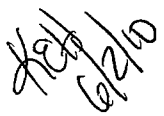
CompuChem

Lab Smp Id : 0051919-BSD1 Client Smp Id : PBOLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 00:04 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PBOLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48			4134								
2.31			730893								
2.32			1025381								
3.26			1781								
3.51			6324								
4.21			277070								
4.84			564								
5.18			4634								
5.26			7142								
5.82			23797								
6.24			540								
6.79			1162								
7.19			14734								
7.62			753								
7.74			2462								
8.16			6513								
8.43			664								
8.62			14030								
8.80	8.73	8.87	83992	1587700	Tetrachloro-m-Xylene	0.052902	8.816950		88.2	70 - 125	
9.17			424								
9.27			19856								
9.45			4400								
9.64			4434								
9.91			2562								
10.27			523								
10.38	10.32	10.46	80144	3028788	alpha-BHC	0.026461	4.410126	1.700000	88.2	60 - 125	
10.54			1010								
10.73			907								
10.88			920								
11.03			345								
11.23	11.16	11.30	69773	2817265	gamma-BHC (Lindane)	0.024766	4.127703	1.700000	82.6	60 - 125	
11.48	11.41	11.55	25344	1035150	beta-BHC	0.024483	4.080568	0.851000	81.6	60 - 125	
11.60			7542								
11.75			1955								
11.82			2161								
11.92	11.85	11.99	79396	2721052	delta-BHC	0.029178	4.863069	1.700000	97.3	55 - 130	
12.04			4461								



CompuChem

Lab Smp Id : 0051919-BSD1 Client Smp Id : PBOLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 00:04 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PBOLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.28		6947								
12.45	12.38 12.52	78578	2589888	Heptachlor	0.030340	5.056719	1.700000	101.1	50 - 140	
12.71		2345								
12.94		1197								
13.03		352								
13.18	13.11 13.25	51184	2391920	Aldrin	0.021398	3.566382	1.700000	71.3	45 - 140	
13.57		5586								
13.66		1755								
13.85		423								
13.91		6638								
13.97		49625								
14.14		549								
14.33		320								
14.40		478								
14.62	14.56 14.70	66286	2235460	Heptachlor Epoxide	0.029652	4.941936	1.700000	98.8	65 - 130	
14.75		1114								
14.91	14.84 14.98	58854	2245768	gamma-Chlordane	0.026206	4.367698	1.700000	87.4	65 - 125	
15.09		405								
15.22	15.15 15.29	55172	1924148	alpha-Chlordane	0.028673	4.778913	1.700000	95.6	65 - 120	
15.41	15.34 15.48	135808	2012896	4,4'-DDE	0.067469	11.24483	3.300000	90.0	70 - 125	
15.52	15.45 15.59	51139	2067970	Endosulfan I	0.024729	4.121433	1.700000	82.4	15 - 135	
15.71		498								
15.78		6112								
15.86		2467								
16.06	15.99 16.13	146171	2037205	Dieldrin	0.071751	11.95846	3.300000	95.7	65 - 125	
16.58	16.51 16.65	110746	1695798	Endrin	0.065306	10.88436	3.300000	87.1	60 - 135	
16.73	16.66 16.80	104410	1534440	4,4'-DDD	0.068044	11.34073	3.300000	90.7	30 - 135	
17.08	17.01 17.15	116471	1759840	Endosulfan II	0.066182	11.03036	3.300000	88.2	35 - 140	
17.23		1600								
17.34	17.27 17.41	105434	1722489	4,4'-DDT	0.061210	10.20171	3.300000	81.6	45 - 140	
17.54		376								
17.67		1786								
17.78		303								
17.91		3859								
18.00	17.93 18.07	49392	1371845	Endrin Aldehyde	0.036004	6.000678	3.300000	48.0	35 - 145	
18.09		5238								
18.40	18.33 18.47	51020	731447	Methoxychlor	0.069752	11.62536	17.00000	93.0	55 - 145	J

CompuChem

Lab Smp Id : 0051919-BSD1 Client Smp Id : PBOLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 00:04 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : PBOLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.96	18.89 19.03	97091	1574194	Endosulfan sulfate	0.061676	10.27934	3.300000	82.2	60 - 135	
19.23		1686								
19.41		309								
19.56	19.49 19.63	127633	1849761	Endrin Ketone	0.068999	11.49986	3.300000	92.0	65 - 135	
19.93		451								
20.11		750								
21.37		948								
21.86	21.79 21.93	151533	1622138	Decachlorobiphenyl	0.093416	15.56926		77.8	55 - 130	
22.35		882								
22.66		724								

Data File: /chem/tracegc82.i/f100601a_2C.b/018f0051919-BSD1.d

Page 1

Date : 02-JUN-2010 00:04

Client ID: PBOLCSD

Instrument: tracegc82.i

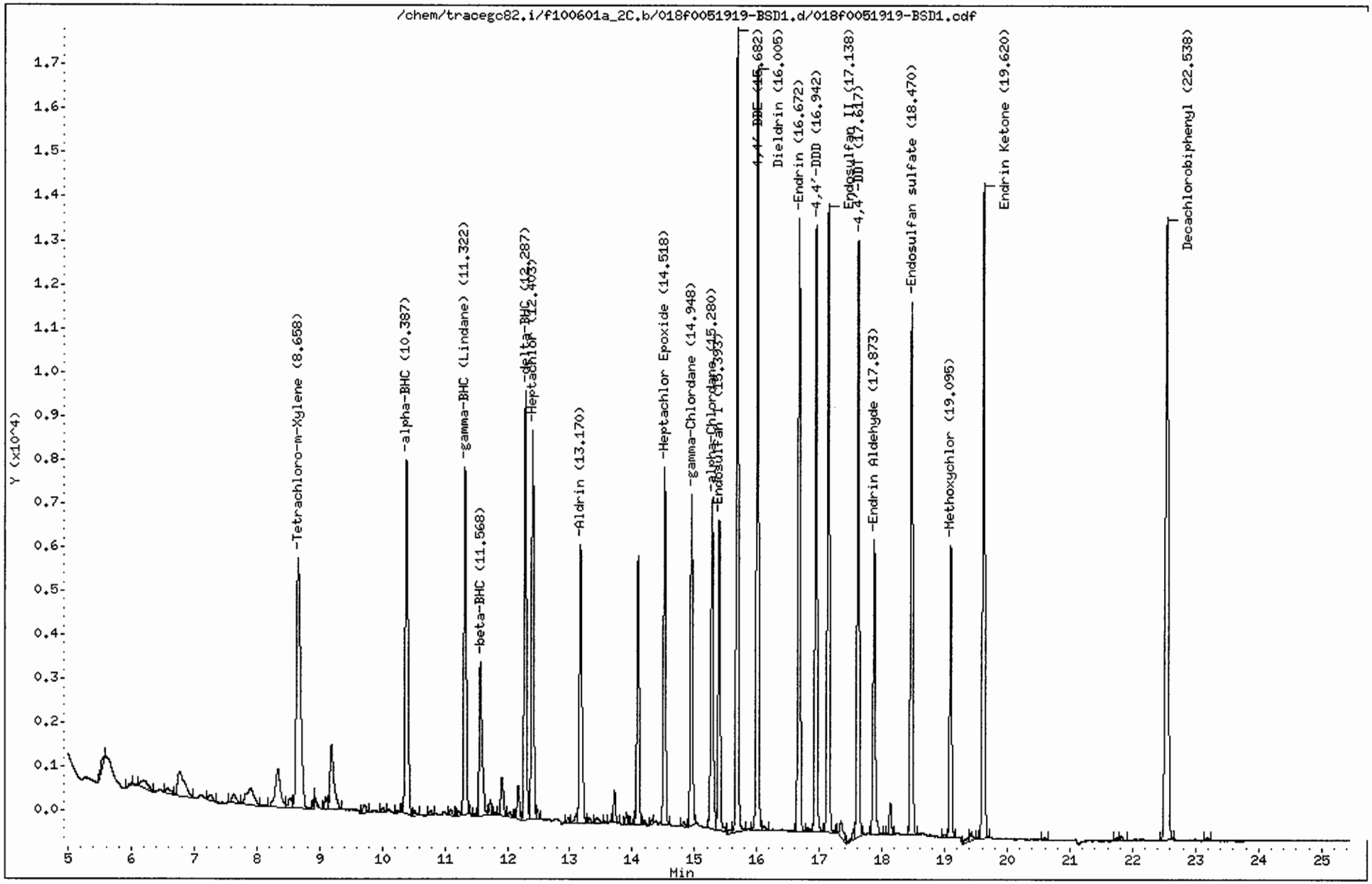
Sample Info: 0051919-BSD1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051919-BSD1 Client Smp Id : PBOLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 00:04 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PBOLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.35		300								
1.51		23578								
2.08		315659								
2.12		401734								
3.13		802								
3.52		72837								
4.37		319								
4.85		1386								
5.58		850								
5.99		179								
6.21		1348								
6.57		624								
6.77		4249								
7.26		557								
7.63		1010								
7.91		3208								
8.34		5224								
8.53		866								
8.66	8.59 8.73	26275	548876	Tetrachloro-m-Xylene	0.047869	7.978123		79.8	70 - 125	
8.93		483								
9.10		771								
9.19		6240								
9.71		677								
10.02		206								
10.24		142								
10.39	10.32 10.46	23957	916452	alpha-BHC	0.026141	4.356836	1.700000	87.1	60 - 125	
10.52		280								
10.78		246								
11.10		329								
11.22		256								
11.32	11.25 11.39	20359	866882	gamma-BHC (Lindane)	0.023485	3.914218	1.700000	78.3	60 - 125	
11.48		128								
11.57	11.50 11.64	10939	347428	beta-BHC	0.031486	5.247618	0.851000	105.0	60 - 125	
11.73		792								
11.91		2677								
12.04		372								
12.18		1970								

6/2/10

CompuChem

Lab Smp Id : 0051919-BSD1 Client Smp Id : PBOLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 00:04 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PBOLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.29	12.22 12.36	22911	827595	delta-BHC	0.027684	4.613972	1.700000	92.3	55 - 130	
12.40	12.33 12.47	21789	778205	Heptachlor	0.027998	4.666293	1.700000	93.3	50 - 140	
12.48		468								
12.97		328								
13.10		708								
13.17	13.10 13.24	17795	726628	Aldrin	0.024488	4.081413	1.700000	81.6	45 - 140	
13.31		413								
13.44		602								
13.56		130								
13.71		1706								
13.91		619								
14.03		290								
14.09		14718								
14.20		251								
14.32		220								
14.52	14.45 14.59	18861	683115	Heptachlor Epoxide	0.027610	4.601714	1.700000	92.0	65 - 130	
14.82		322								
14.95	14.88 15.02	17645	690205	gamma-Chlordane	0.025565	4.260811	1.700000	85.2	65 - 125	
15.28	15.21 15.35	19546	595455	alpha-Chlordane	0.032824	5.470607	1.700000	109.4	65 - 120	
15.39	15.33 15.47	17215	638725	Endosulfan I	0.026951	4.491761	1.700000	89.8	15 - 135	
15.58		288								
15.68	15.61 15.75	40390	617325	4,4'-DDE	0.065426	10.90430	3.300000	87.2	70 - 125	
16.00	15.94 16.08	40566	598394	Dieldrin	0.067791	11.29858	3.300000	90.4	65 - 125	
16.12		270								
16.67	16.60 16.74	33464	524785	Endrin	0.063765	10.62753	3.300000	85.0	60 - 135	
16.81		270								
16.94	16.87 17.01	30763	454222	4,4'-DDD	0.067725	11.28742	3.300000	90.3	30 - 135	
17.14	17.07 17.21	34138	526756	Endosulfan II	0.064808	10.80133	3.300000	86.4	35 - 140	
17.34		1552								
17.55		789								
17.62	17.55 17.69	30815	503765	4,4'-DDT	0.061169	10.19490	3.300000	81.6	45 - 140	
17.87	17.81 17.95	16658	425754	Endrin Aldehyde	0.039126	6.520984	3.300000	52.2	35 - 145	
18.13		1748								
18.47	18.40 18.54	29182	479624	Endosulfan sulfate	0.060841	10.14024	3.300000	81.1	60 - 135	
19.00		182								
19.10	19.03 19.17	15301	208391	Methoxychlor	0.073420	12.23661	17.00000	97.9	55 - 145	J
19.39		445								

CompuChem

Lab Smp Id : 0051919-BSD1 Client Smp Id : PBOLCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 00:04 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : PBOLCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
19.43		489								
19.62	19.55 19.69	36846	535815	Endrin Ketone	0.068766	11.46105	3.300000	91.7	65 - 135	
20.60		175								
21.75		203								
21.82		283								
22.54	22.47 22.61	45650	497254	Decachlorobiphenyl	0.091804	15.30068		76.5	55 - 130	
23.18		185								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCELCS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052405-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.8	
319-85-7	beta-BHC	4.0	
319-84-6	alpha-BHC	4.4	
319-86-8	delta-BHC	4.5	
58-89-9	gamma-BHC (Lindane)	3.9	
72-54-8	4,4'-DDD	11	
72-55-9	4,4'-DDE	11	
50-29-3	4,4'-DDT	10	
60-57-1	Dieldrin	11	
959-98-8	Endosulfan I	4.0	
33213-65-9	Endosulfan II	11	
1031-07-8	Endosulfan sulfate	9.9	
72-20-8	Endrin	10	
7421-93-4	Endrin Aldehyde	6.2	
76-44-8	Heptachlor	4.8	
1024-57-3	Heptachlor Epoxide	4.8	
72-43-5	Methoxychlor	12	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	11	
5103-74-2	gamma-Chlordane	4.4	B
5103-71-9	alpha-Chlordane	4.7	

Data File: /chem/tracegc82.i/f100601d.b/056f0052405-BS1.d

Date : 02-JUN-2010 18:30

Client ID: PCELCS

Instrument: tracegc82.i

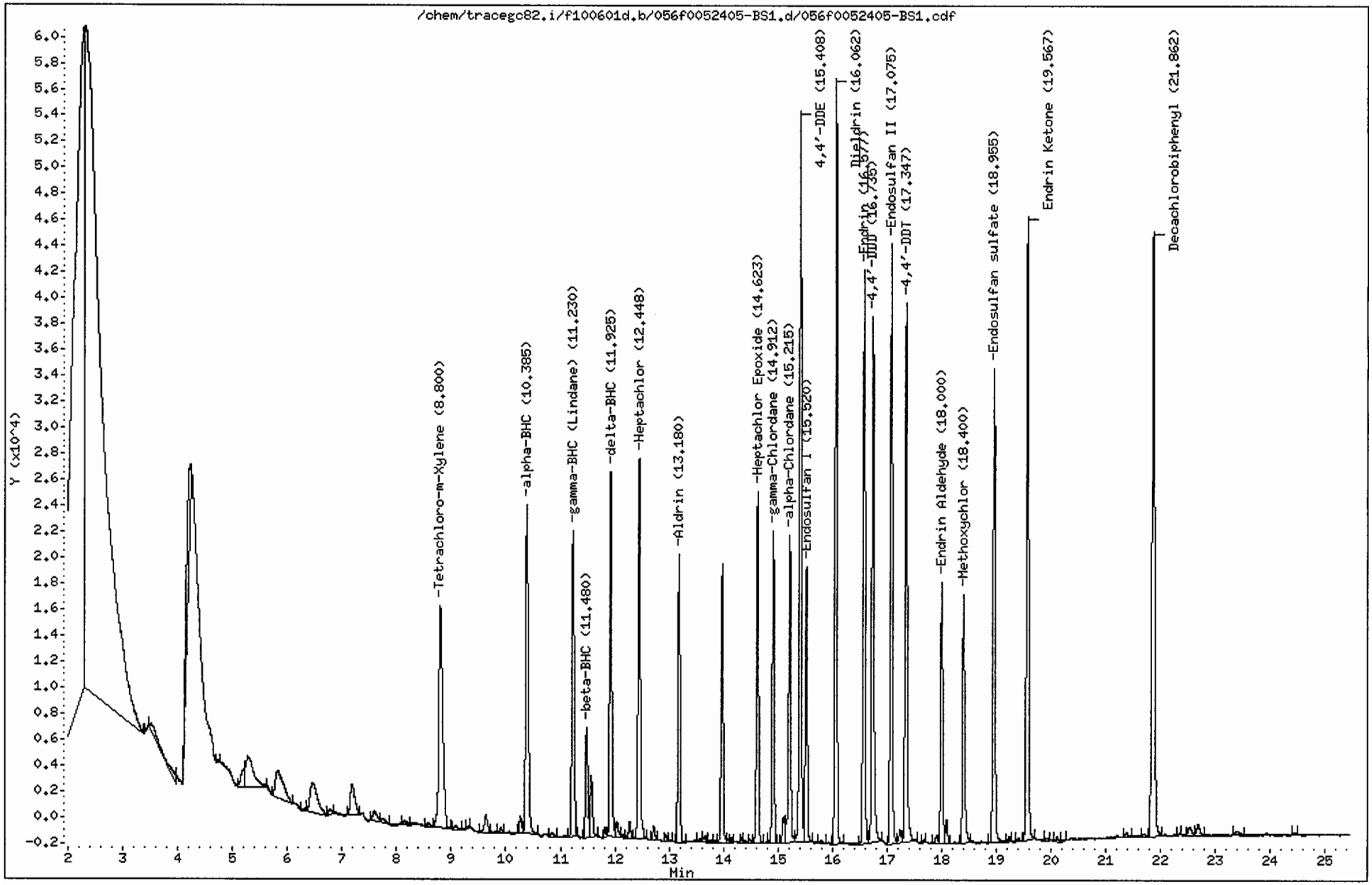
Sample Info: 0052405-BS1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



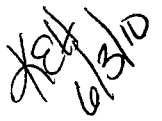
CompuChem

Lab Smp Id : 0052405-BS1 Client Smp Id : PCELCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 02-JUN-2010 18:30 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PCELCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.49			163069								
1.86			77995								
2.29			770338								
2.32			1045056								
3.47			442								
3.52			10090								
4.22			46432								
4.72			525								
5.20			5202								
5.28			24751								
5.82			21310								
6.32			868								
6.46			21761								
6.79			1773								
7.18			14520								
7.59			4108								
7.75			1310								
8.14			1344								
8.58			1280								
8.80	8.73	8.87	84580	1587700	Tetrachloro-m-Xylene	0.053271	8.878569		88.8	70 - 125	
9.06			1020								
9.32			320								
9.63			5503								
9.90			1392								
10.27			3885								
10.38	10.32	10.46	84886	3028788	alpha-BHC	0.028026	4.671066	1.700000	93.4	60 - 125	
10.85			1087								
11.23	11.16	11.30	69867	2817265	gamma-BHC (Lindane)	0.024800	4.133264	1.700000	82.7	60 - 125	
11.48	11.41	11.55	24592	1035150	beta-BHC	0.023757	3.959491	0.851000	79.2	60 - 125	
11.56			14608								
11.82			1772								
11.92	11.85	11.99	77246	2721052	delta-BHC	0.028388	4.731319	1.700000	94.6	55 - 130	
12.04			3656								
12.14			702								
12.27			3676								
12.45	12.38	12.52	81873	2589888	Heptachlor	0.031612	5.268697	1.700000	105.4	50 - 140	
12.72			3130								



CompuChem

Lab Smp Id : 0052405-BS1 Client Smp Id : PCELCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 02-JUN-2010 18:30 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PCELCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.94		1246								
13.04		437								
13.18	13.11 13.25	57088	2391920	Aldrin	0.023867	3.977767	1.700000	79.6	45 - 140	
13.56		957								
13.66		1755								
13.74		582								
13.85		524								
13.97		54355								
14.10		635								
14.14		810								
14.32		843								
14.40		609								
14.49		785								
14.62	14.56 14.70	66841	2235460	Heptachlor Epoxide	0.029900	4.983389	1.700000	99.7	65 - 130	
14.82		589								
14.91	14.84 14.98	59946	2245768	gamma-Chlordane	0.026692	4.448739	1.700000	89.0	65 - 125	
15.10		7029								
15.22	15.15 15.29	62346	1924148	alpha-Chlordane	0.032401	5.400227	1.700000	108.0	65 - 120	
15.41	15.34 15.48	139023	2012896	4,4'-DDE	0.069066	11.51103	3.300000	92.1	70 - 125	
15.52	15.45 15.59	52704	2067970	Endosulfan I	0.025485	4.247563	1.700000	85.0	15 - 135	
15.78		897								
16.06	15.99 16.13	144904	2037205	Dieldrin	0.071128	11.85472	3.300000	94.8	65 - 125	
16.58	16.51 16.65	110917	1695798	Endrin	0.065406	10.90107	3.300000	87.2	60 - 135	
16.74	16.66 16.80	108374	1534440	4,4'-DDD	0.070628	11.77129	3.300000	94.2	30 - 135	
17.08	17.01 17.15	117436	1759840	Endosulfan II	0.066731	11.12184	3.300000	89.0	35 - 140	
17.23		3206								
17.35	17.27 17.41	108873	1722489	4,4'-DDT	0.063206	10.53437	3.300000	84.3	45 - 140	
17.68		517								
17.91		1755								
18.00	17.93 18.07	51488	1371845	Endrin Aldehyde	0.037532	6.255323	3.300000	50.0	35 - 145	
18.09		4746								
18.40	18.33 18.47	51979	731447	Methoxychlor	0.071062	11.84365	17.00000	94.7	55 - 145	J
18.96	18.89 19.03	97575	1574194	Endosulfan sulfate	0.061983	10.33058	3.300000	82.6	60 - 135	
19.24		985								
19.42		836								
19.57	19.49 19.63	128023	1849761	Endrin Ketone	0.069210	11.53500	3.300000	92.3	65 - 135	
19.93		704								

CompuChem

Lab Smp Id : 0052405-BS1 Client Smp Id : PCELCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 02-JUN-2010 18:30 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PCELCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
20.11		1037								
20.23		311								
21.37		1224								
21.69		1009								
21.86	21.79 21.93	154993	1622138	Decachlorobiphenyl	0.095549	15.92476		79.6	55 - 130	
22.34		382								
22.53		3050								
22.68		3762								
23.39		1560								
24.42		340								

Data File: /chem/tracegc82.i/f100601d_2C.b/056f0052405-BS1.d

Date : 02-JUN-2010 18:30

Client ID: PCELCS

Instrument: tracegc82.i

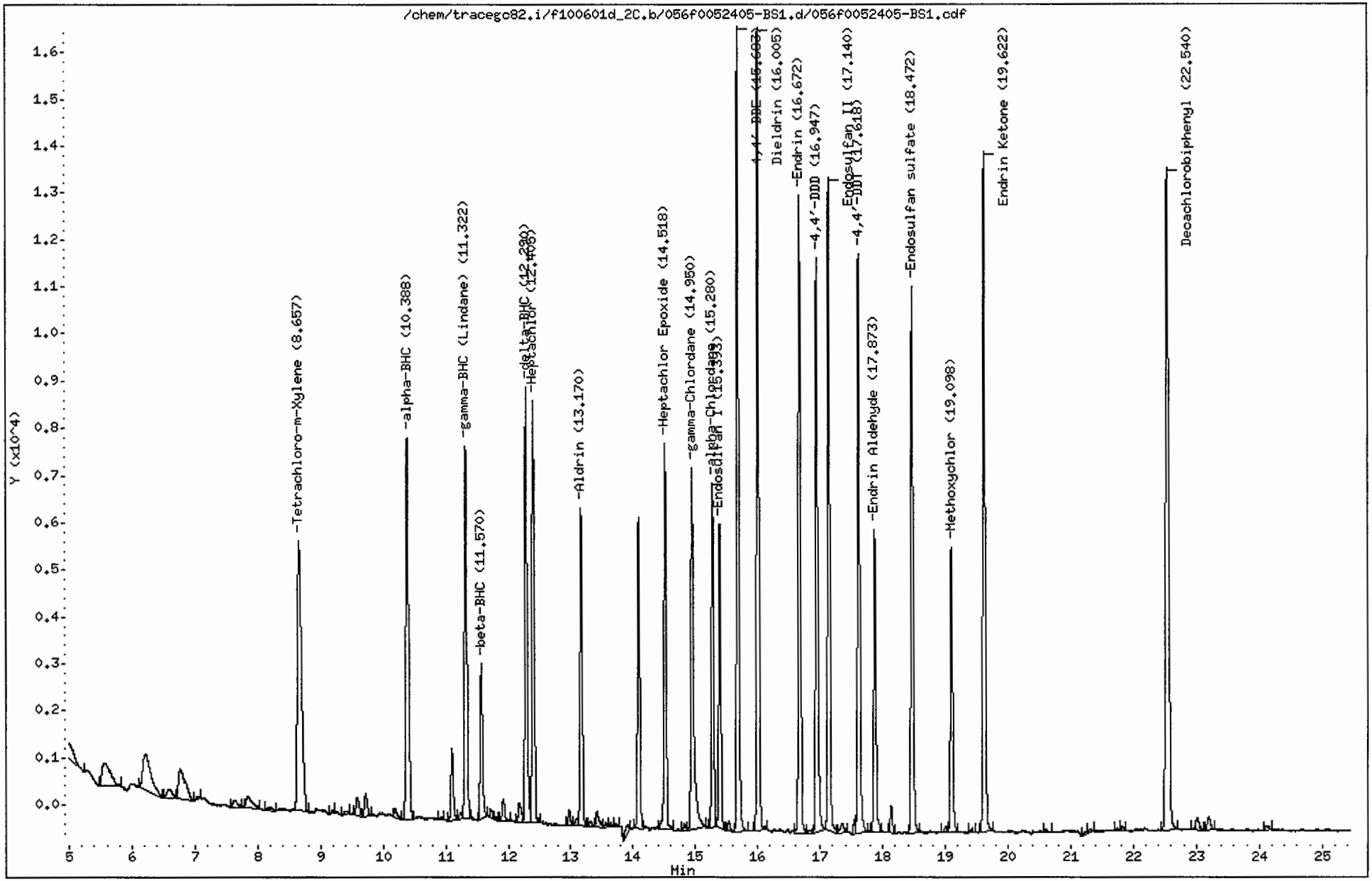
Sample Info: 0052405-BS1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052405-BS1 Client Smp Id : PCELCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 02-JUN-2010 18:30 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : PCELCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.35			223								
1.51			90339								
1.63			48296								
2.08			796982								
3.56			103258								
4.93			8127								
5.57			4567								
6.21			6892								
6.59			1103								
6.77			4862								
7.04			205								
7.63			711								
7.85			1553								
8.17			379								
8.66	8.59	8.73	26343	548876	Tetrachloro-m-Xylene	0.047994	7.999074		80.0	70 - 125	
9.20			135								
9.41			233								
9.59			1353								
9.72			1612								
10.19			569								
10.39	10.32	10.46	24248	916452	alpha-BHC	0.026459	4.409758	1.700000	88.2	60 - 125	
10.93			134								
11.10			3980								
11.23			355								
11.32	11.25	11.39	20469	866882	gamma-BHC (Lindane)	0.023611	3.935174	1.700000	78.7	60 - 125	
11.57	11.50	11.64	8690	347428	beta-BHC	0.025010	4.168256	0.851000	83.4	60 - 125	
11.73			375								
11.80			152								
11.92			1300								
12.18			1311								
12.29	12.22	12.36	22157	827595	delta-BHC	0.026772	4.461925	1.700000	89.2	55 - 130	
12.40	12.33	12.47	22237	778205	Heptachlor	0.028575	4.762454	1.700000	95.2	50 - 140	
12.97			771								
13.10			467								
13.17	13.10	13.24	16406	726628	Aldrin	0.022578	3.763047	1.700000	75.3	45 - 140	
13.32			278								
13.42			1084								

6/3/10

CompuChem

Lab Smp Id : 0052405-BS1 Client Smp Id : PCELCS
Sample Type : LCS Sublist : DODPEST
Inj Date : 02-JUN-2010 18:30 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : PCELCS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.56		204								
13.64		215								
13.72		155								
13.91		783								
14.09		15884								
14.52	14.45 14.59	19514	683115	Heptachlor Epoxide	0.028566	4.761033	1.700000	95.2	65 - 130	
14.82		310								
14.95	14.88 15.02	22612	690205	gamma-Chlordane	0.032760	5.459972	1.700000	109.2	65 - 125	
15.28	15.21 15.35	16865	595455	alpha-Chlordane	0.028321	4.720200	1.700000	94.4	65 - 120	
15.39	15.33 15.47	15270	638725	Endosulfan I	0.023907	3.984500	1.700000	79.7	15 - 135	
15.53		491								
15.68	15.61 15.75	39604	617325	4,4'-DDE	0.064153	10.69210	3.300000	85.5	70 - 125	
16.00	15.94 16.08	40041	598394	Dieldrin	0.066912	11.15208	3.300000	89.2	65 - 125	
16.67	16.60 16.74	32654	524785	Endrin	0.062222	10.37028	3.300000	83.0	60 - 135	
16.82		238								
16.95	16.87 17.01	30299	454222	4,4'-DDD	0.066705	11.11753	3.300000	88.9	30 - 135	
17.14	17.07 17.21	33625	526756	Endosulfan II	0.063834	10.63901	3.300000	85.1	35 - 140	
17.35		812								
17.55		707								
17.62	17.55 17.69	30221	503765	4,4'-DDT	0.059990	9.998379	3.300000	80.0	45 - 140	
17.87	17.81 17.95	15946	425754	Endrin Aldehyde	0.037454	6.242262	3.300000	49.9	35 - 145	
18.13		1296								
18.47	18.40 18.54	28394	479624	Endosulfan sulfate	0.059201	9.866762	3.300000	78.9	60 - 135	
19.00		343								
19.10	19.03 19.17	14958	208391	Methoxychlor	0.071774	11.96229	17.00000	95.7	55 - 145	J
19.43		186								
19.62	19.55 19.69	36376	535815	Endrin Ketone	0.067889	11.31485	3.300000	90.5	65 - 135	
20.60		186								
21.25		180								
21.30		303								
21.75		132								
21.82		289								
22.54	22.47 22.61	46138	497254	Decachlorobiphenyl	0.092785	15.46425		77.3	55 - 130	
23.01		932								
23.19		907								
24.12		321								

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PCELCSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052405-BSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 05/24/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	3.7	
319-85-7	beta-BHC	3.9	
319-84-6	alpha-BHC	4.4	
319-86-8	delta-BHC	4.3	
58-89-9	gamma-BHC (Lindane)	3.9	
72-54-8	4,4'-DDD	11	
72-55-9	4,4'-DDE	10	
50-29-3	4,4'-DDT	9.7	
60-57-1	Dieldrin	11	
959-98-8	Endosulfan I	4.0	
33213-65-9	Endosulfan II	10	
1031-07-8	Endosulfan sulfate	9.5	
72-20-8	Endrin	10	
7421-93-4	Endrin Aldehyde	6.7	
76-44-8	Heptachlor	4.7	
1024-57-3	Heptachlor Epoxide	4.6	
72-43-5	Methoxychlor	12	J
8001-35-2	Toxaphene	83	U
53494-70-5	Endrin Ketone	11	
5103-74-2	gamma-Chlordane	4.3	B
5103-71-9	alpha-Chlordane	4.6	

Data File: /chem/tracegc82.i/f100601d.b/057f0052405-BSD1.d

Date : 02-JUN-2010 19:00

Client ID: PCELCSD

Sample Info: 0052405-BSD1

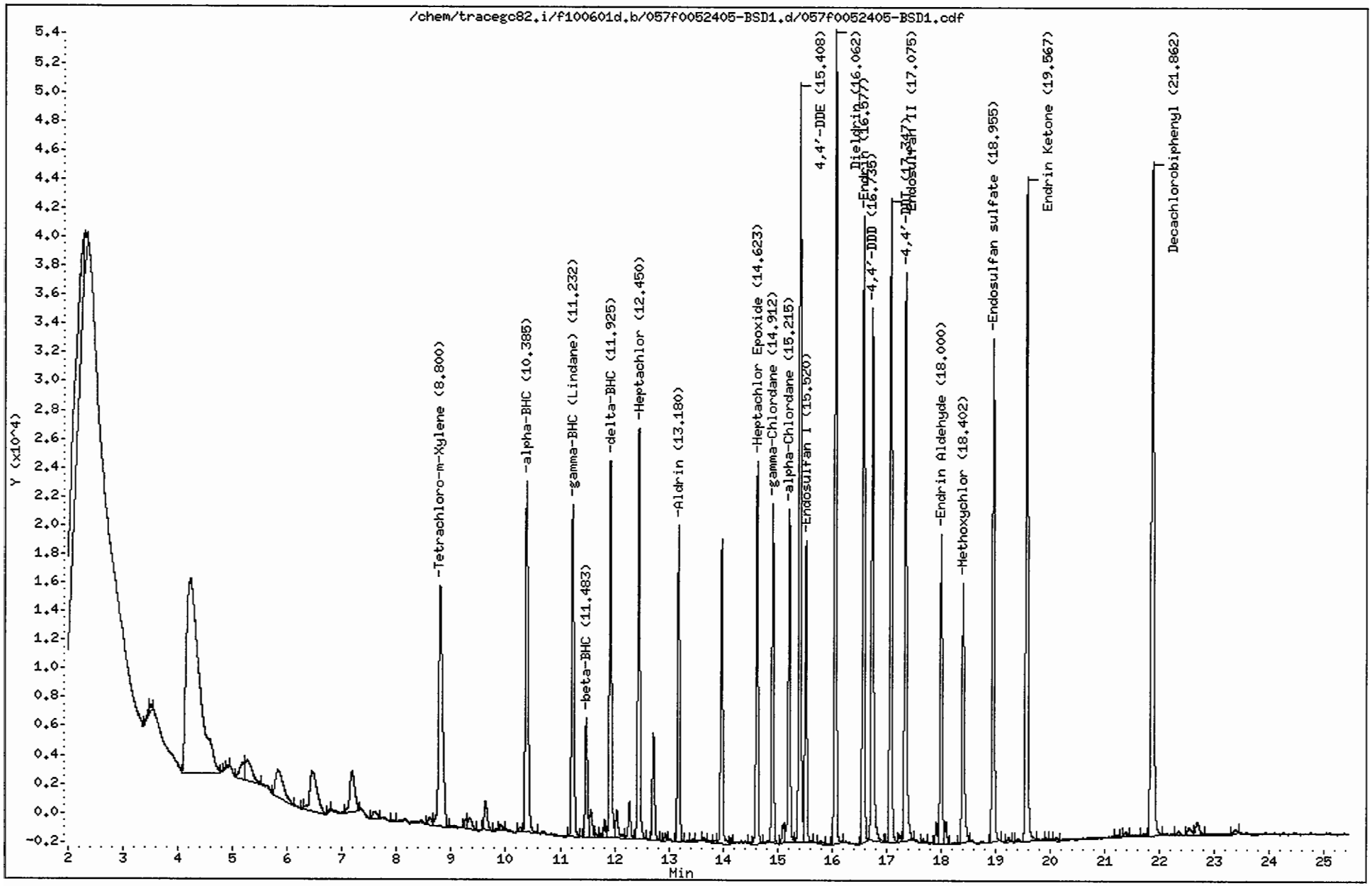
Volume Injected (uL): 1.0

Column phase: clpest

Instrument: tracegc82.i

Operator: BWL

Column diameter: 0.32



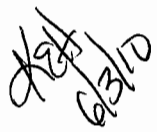
CompuChem

Lab Smp Id : 0052405-BSD1 Client Smp Id : PCELCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 19:00 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PCELCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
0.61			319								
1.05			360								
1.50			125519								
1.86			483								
2.26			66478								
2.29			7850								
3.48			1963								
3.50			1079								
4.23			224266								
4.85			295								
4.92			394								
5.18			6022								
5.28			12795								
5.83			19623								
6.30			355								
6.45			26678								
6.78			455								
7.18			18352								
7.59			3077								
7.93			638								
8.60			2620								
8.80	8.73	8.87	82100	1587700	Tetrachloro-m-Xylene	0.051709	8.618235		86.2	70 - 125	
9.27			1945								
9.34			3935								
9.63			7955								
9.82			395								
9.90			1405								
10.27			948								
10.38	10.32	10.46	82035	3028788	alpha-BHC	0.027085	4.514128	1.700000	90.3	60 - 125	
11.23	11.16	11.30	69223	2817265	gamma-BHC (Lindane)	0.024571	4.095166	1.700000	81.9	60 - 125	
11.48	11.41	11.55	23972	1035150	beta-BHC	0.023158	3.859666	0.851000	77.2	60 - 125	
11.57			6317								
11.66			761								
11.74			642								
11.82			3060								
11.92	11.85	11.99	73805	2721052	delta-BHC	0.027124	4.520616	1.700000	90.4	55 - 130	
12.04			6994								



CompuChem

Lab Smp Id : 0052405-BSD1 Client Smp Id : PCELCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 19:00 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PCELCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.28		7034								
12.45	12.38 12.52	78071	2589888	Heptachlor	0.030145	5.024092	1.700000	100.5	50 - 140	
12.71		21646								
12.94		1246								
13.18	13.11 13.25	55810	2391920	Aldrin	0.023333	3.888787	1.700000	77.8	45 - 140	
13.44		449								
13.63		848								
13.75		462								
13.86		512								
13.97		54550								
14.15		816								
14.48		400								
14.62	14.56 14.70	64809	2235460	Heptachlor Epoxide	0.028991	4.831817	1.700000	96.6	65 - 130	
14.91	14.84 14.98	57894	2245768	gamma-Chlordane	0.025779	4.296452	1.700000	85.9	65 - 125	
15.10		4222								
15.22	15.15 15.29	59278	1924148	alpha-Chlordane	0.030807	5.134482	1.700000	102.7	65 - 120	
15.41	15.34 15.48	134065	2012896	4,4'-DDE	0.066603	11.10051	3.300000	88.8	70 - 125	
15.52	15.45 15.59	53241	2067970	Endosulfan I	0.025745	4.290842	1.700000	85.8	15 - 135	
15.79		1066								
16.06	15.99 16.13	140304	2037205	Dieldrin	0.068870	11.47839	3.300000	91.8	65 - 125	
16.58	16.51 16.65	109159	1695798	Endrin	0.064370	10.72838	3.300000	85.8	60 - 135	
16.74	16.66 16.80	105162	1534440	4,4'-DDD	0.068534	11.42230	3.300000	91.4	30 - 135	
17.08	17.01 17.15	113697	1759840	Endosulfan II	0.064606	10.76774	3.300000	86.1	35 - 140	
17.23		1364								
17.35	17.27 17.41	103699	1722489	4,4'-DDT	0.060202	10.03374	3.300000	80.3	45 - 140	
17.67		877								
17.91		3737								
18.00	17.93 18.07	55509	1371845	Endrin Aldehyde	0.040462	6.743716	3.300000	53.9	35 - 145	
18.09		3845								
18.40	18.33 18.47	51722	731447	Methoxychlor	0.070711	11.78509	17.00000	94.3	55 - 145	J
18.96	18.89 19.03	92348	1574194	Endosulfan sulfate	0.058664	9.777280	3.300000	78.2	60 - 135	
19.24		1029								
19.41		797								
19.57	19.49 19.63	127137	1849761	Endrin Ketone	0.068731	11.45517	3.300000	91.6	65 - 135	
19.93		425								
20.11		814								
21.22		532								

CompuChem

Lab Smp Id : 0052405-BSD1 Client Smp Id : PCELCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 19:00 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d.b/8081A_clpestv6.m
Misc. Info : PCELCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
21.37		1036								
21.70		706								
21.86	21.79 21.93	157060	1622138	Decachlorobiphenyl	0.096822	16.13703		80.7	55 - 130	
22.34		1158								
22.53		2330								
22.68		4116								
23.40		1452								

Data File: /chem/tracegc82.i/f100601d_2C.b/057f0052405-BSD1.d

Date : 02-JUN-2010 19:00

Client ID: PCELCSD

Instrument: tracegc82.i

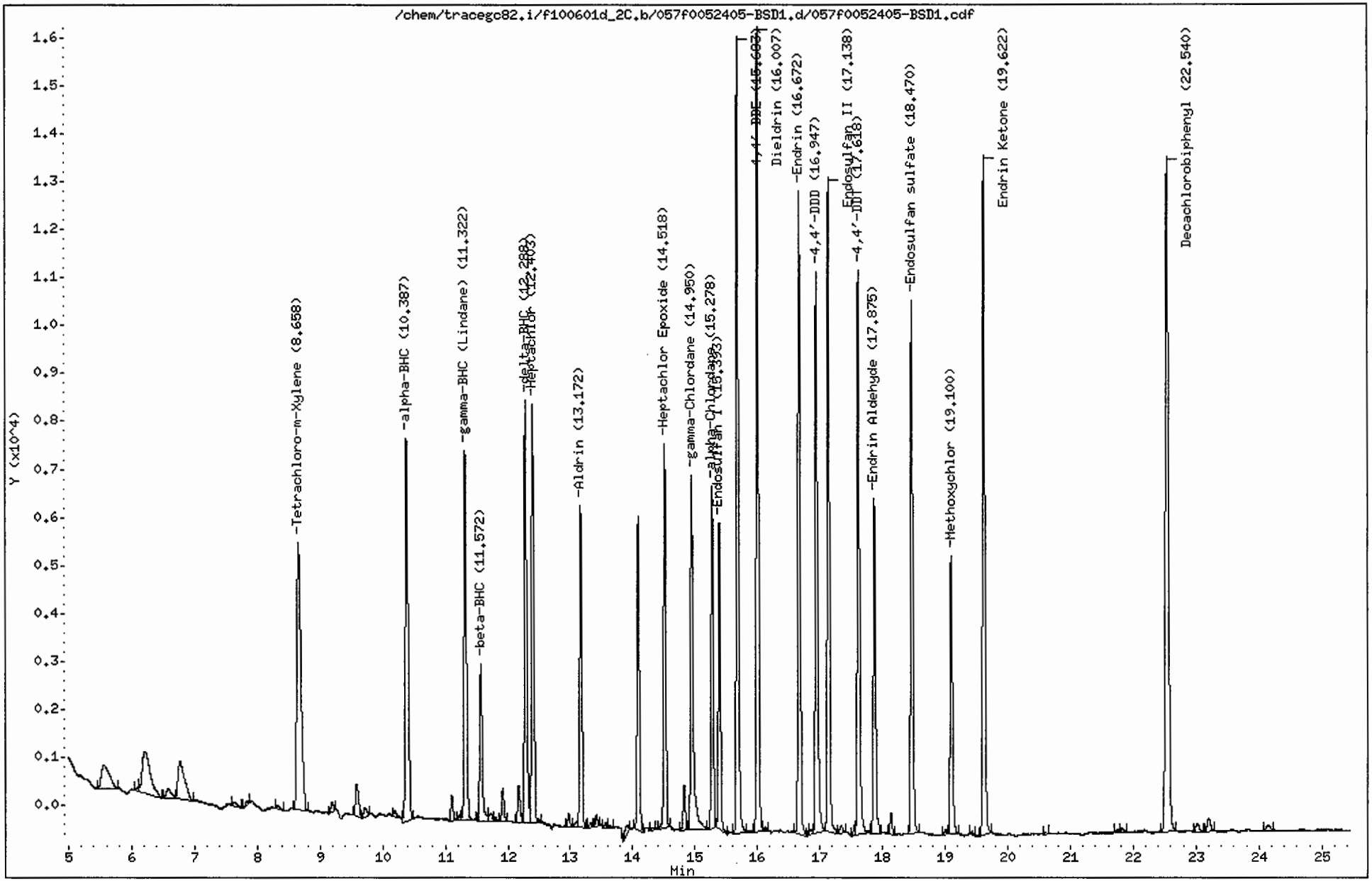
Sample Info: 0052405-BSD1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0052405-BSD1 Client Smp Id : PCELCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 19:00 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : PCELCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36			202								
1.51			144855								
2.05			232254								
2.07			397500								
3.22			17760								
3.52			56555								
4.41			148								
4.91			131								
5.57			4478								
6.09			130								
6.22			7867								
6.57			1094								
6.77			5670								
7.63			385								
7.84			194								
8.33			335								
8.66	8.59	8.73	25617	548876	Tetrachloro-m-Xylene	0.046672	7.778624		77.8	70 - 125	
9.19			597								
9.59			2350								
9.72			679								
10.19			401								
10.39	10.32	10.46	24033	916452	alpha-BHC	0.026223	4.370476	1.700000	87.4	60 - 125	M
11.10			1291								
11.23			261								
11.32	11.25	11.39	20339	866882	gamma-BHC (Lindane)	0.023462	3.910372	1.700000	78.2	60 - 125	
11.57	11.50	11.64	9288	347428	beta-BHC	0.026734	4.455606	0.851000	89.1	60 - 125	
11.73			543								
11.80			223								
11.92			1791								
12.18			2141								
12.29	12.22	12.36	21542	827595	delta-BHC	0.026028	4.338072	1.700000	86.8	55 - 130	
12.40	12.33	12.47	22076	778205	Heptachlor	0.028367	4.727759	1.700000	94.6	50 - 140	
12.97			621								
13.10			361								
13.17	13.10	13.24	16288	726628	Aldrin	0.022416	3.735981	1.700000	74.7	45 - 140	
13.32			209								
13.42			540								

M2 RPT 6/3/10

CompuChem

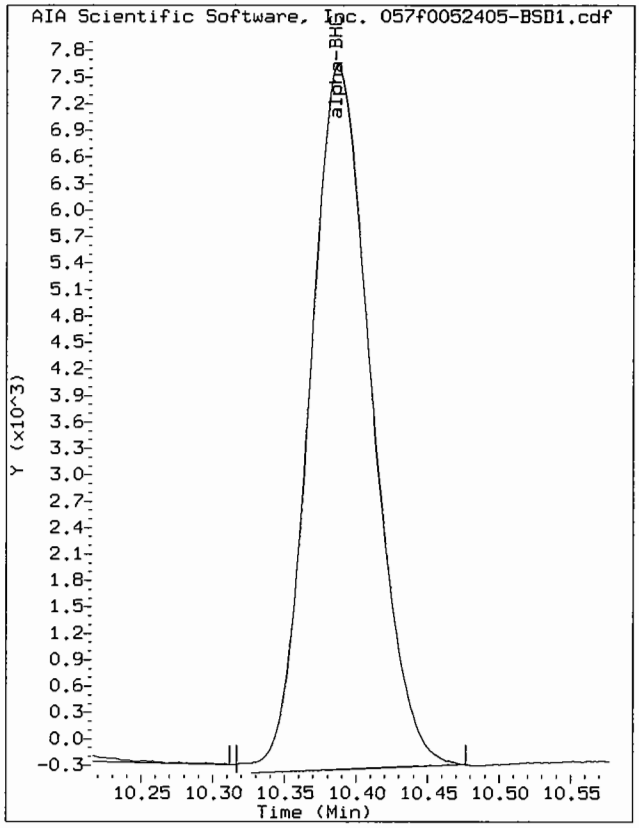
Lab Smp Id : 0052405-BSD1 Client Smp Id : PCELCSD
Sample Type : LCSD Sublist : DODPEST
Inj Date : 02-JUN-2010 19:00 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601d_2C.b/8081A_clpest2v6.m
Misc. Info : PCELCSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 0(%)

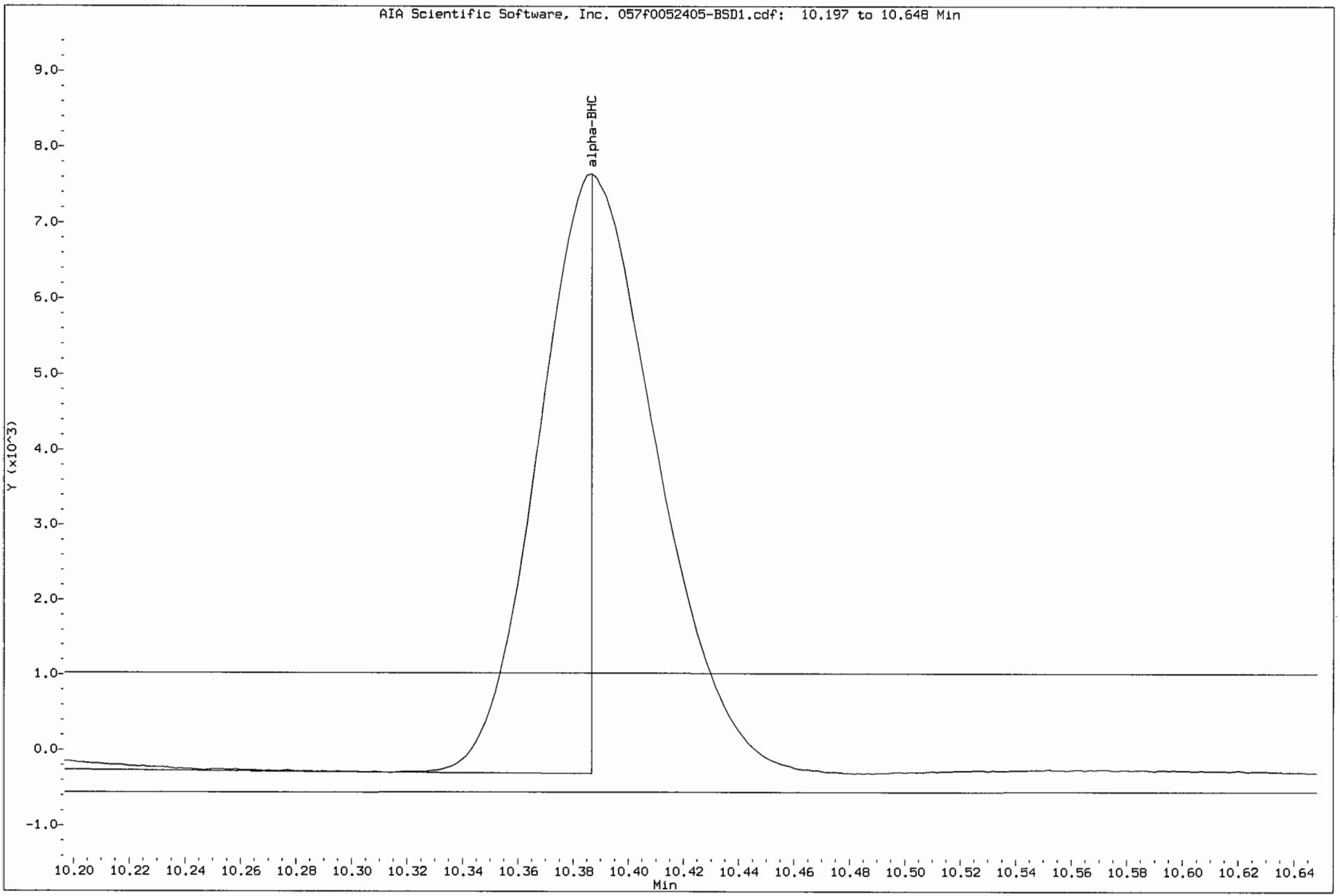
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
13.56		264								
13.64		143								
13.91		823								
14.09		16027								
14.31		125								
14.52	14.45 14.59	18708	683115	Heptachlor Epoxide	0.027385	4.564141	1.700000	91.3	65 - 130	
14.83		2341								
14.95	14.88 15.02	20907	690205	gamma-Chlordane	0.030290	5.048259	1.700000	101.0	65 - 125	
15.28	15.21 15.35	16398	595455	alpha-Chlordane	0.027537	4.589488	1.700000	91.8	65 - 120	
15.39	15.33 15.47	15230	638725	Endosulfan I	0.023843	3.973802	1.700000	79.5	15 - 135	
15.68	15.61 15.75	38832	617325	4,4'-DDE	0.062904	10.48394	3.300000	83.9	70 - 125	
16.01	15.94 16.08	39510	598394	Dieldrin	0.066027	11.00446	3.300000	88.0	65 - 125	
16.12		222								
16.67	16.60 16.74	32541	524785	Endrin	0.062008	10.33471	3.300000	82.7	60 - 135	
16.82		156								
16.86		303								
16.95	16.87 17.01	30014	454222	4,4'-DDD	0.066078	11.01296	3.300000	88.1	30 - 135	
17.14	17.07 17.21	33038	526756	Endosulfan II	0.062718	10.45297	3.300000	83.6	35 - 140	
17.34		461								
17.55		445								
17.62	17.55 17.69	29398	503765	4,4'-DDT	0.058357	9.726096	3.300000	77.8	45 - 140	
17.88	17.81 17.95	17613	425754	Endrin Aldehyde	0.041369	6.894831	3.300000	55.2	35 - 145	
18.14		1067								
18.47	18.40 18.54	27321	479624	Endosulfan sulfate	0.056961	9.493553	3.300000	75.9	60 - 135	
19.00		242								
19.10	19.03 19.17	14634	208391	Methoxychlor	0.070219	11.70316	17.00000	93.6	55 - 145	J
19.43		155								
19.62	19.55 19.69	35742	535815	Endrin Ketone	0.066706	11.11764	3.300000	88.9	65 - 135	
20.61		148								
21.75		209								
21.83		276								
22.54	22.47 22.61	46772	497254	Decachlorobiphenyl	0.094060	15.67675		78.4	55 - 130	
23.02		668								
23.20		1014								
24.15		449								

Manually Integrated Peaks



Start: 10.32 Stop: 10.48

Data File: /chem/tracegc82.i/f100601d_2C.b/057f0052405-BSD1.d/057f0052405-BSD1.cdf
Injection Date: 02-JUN-2010 19:00
Instrument: tracegc82.i
Client Sample ID: PCELCSD



c. Matrix Spike Data

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB85-1.5-2.5MS

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	5.1	
319-85-7	beta-BHC	5.7	
319-84-6	alpha-BHC	5.6	
319-86-8	delta-BHC	6.1	
58-89-9	gamma-BHC (Lindane)	5.5	
72-54-8	4,4'-DDD	15	
72-55-9	4,4'-DDE	14	
50-29-3	4,4'-DDT	14	
60-57-1	Dieldrin	15	
959-98-8	Endosulfan I	5.6	
33213-65-9	Endosulfan II	14	
1031-07-8	Endosulfan sulfate	14	
72-20-8	Endrin	14	
7421-93-4	Endrin Aldehyde	8.4	
76-44-8	Heptachlor	6.2	
1024-57-3	Heptachlor Epoxide	5.7	
72-43-5	Methoxychlor	16	J
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	15	
5103-74-2	gamma-Chlordane	5.7	
5103-71-9	alpha-Chlordane	6.5	

FORM I PEST

Data File: /chem/tracegc82.i/f100601a.b/019f0051919-MS1.d

Page 1

Date : 02-JUN-2010 00:33

Client ID: SB85-1.5-2.5MS

Instrument: tracegc82.i

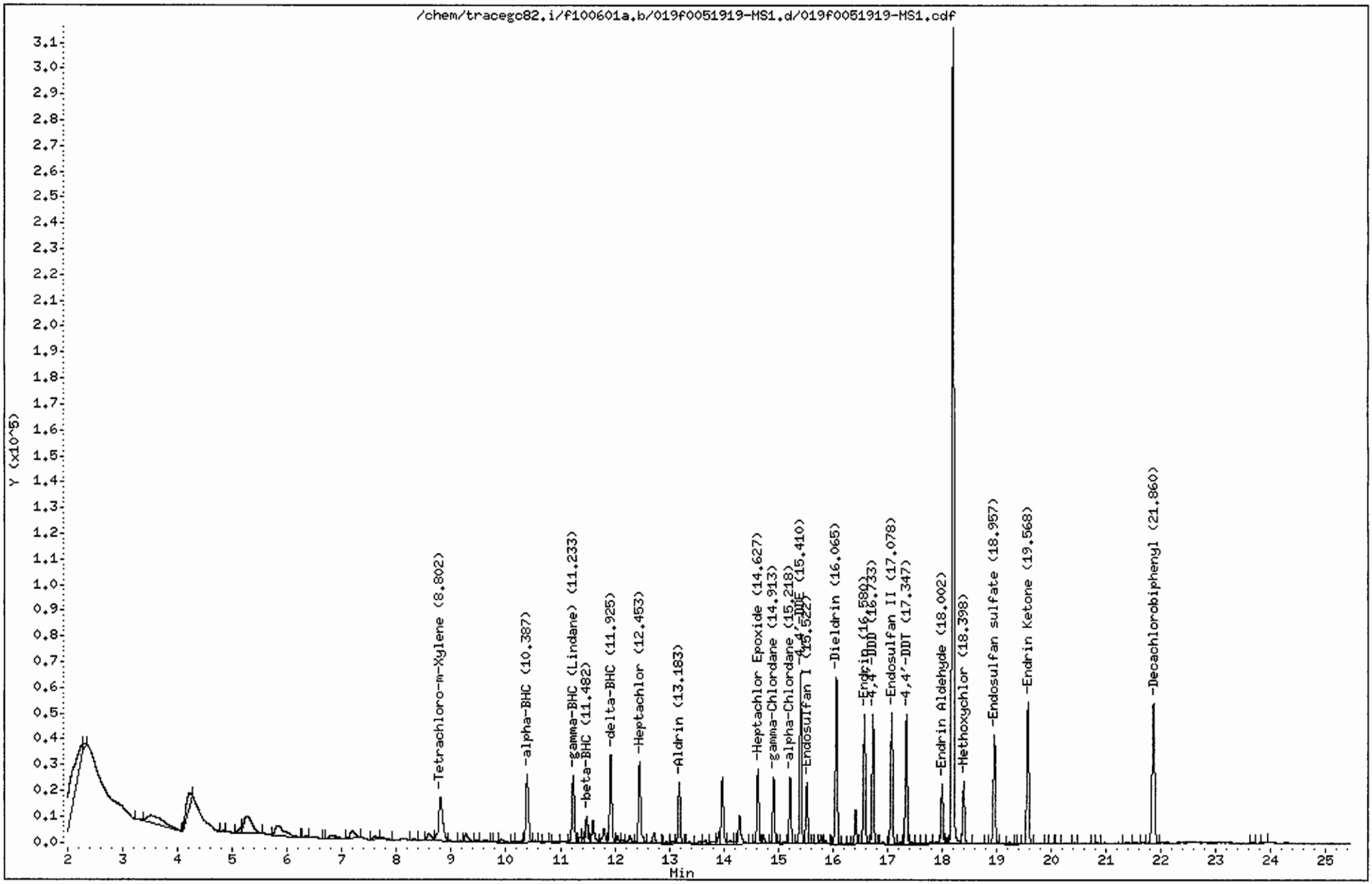
Sample Info: 0051919-MS1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051919-MS1 Client Smp Id : SB85-1.5-2.5MS
Sample Type : MS Sublist : DODPEST
Inj Date : 02-JUN-2010 00:33 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB85-1.5-2.5MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.48			22626								
2.27			92905								
2.30			5712								
3.26			1570								
3.51			61528								
4.21			34430								
4.82			382								
5.17			9023								
5.28			67459								
5.83			46807								
6.34			1539								
6.67			321								
6.81			11343								
7.19			18408								
7.59			8133								
7.74			5715								
8.31			1558								
8.59			14429								
8.80	8.73	8.87	87042	1587700	Tetrachloro-m-Xylene	0.054822	11.00845		91.4	70 - 125	
9.16			1578								
9.27			14061								
9.45			2421								
9.63			2384								
9.82			1184								
9.92			9126								
10.15			2160								
10.29			4633								
10.39	10.32	10.46	87487	3028788	alpha-BHC	0.028885	5.800166	2.048193	96.3	60 - 125	
10.54			1339								
10.73			1125								
10.90			1994								
11.23	11.16	11.30	76615	2817265	gamma-BHC (Lindane)	0.027195	5.460806	2.048193	90.6	60 - 125	
11.36			5342								
11.40			5564								
11.48	11.41	11.55	29231	1035150	beta-BHC	0.028238	5.670365	1.025301	94.1	60 - 125	
11.60			26500								
11.80			19979								

6/2/10

CompuChem

Lab Smp Id : 0051919-MS1 Client Smp Id : SB85-1.5-2.5MS
Sample Type : MS Sublist : DODPEST
Inj Date : 02-JUN-2010 00:33 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB85-1.5-2.5MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
11.92	11.85 11.99	92912	2721052	delta-BHC	0.034145	6.856475	2.048193	113.8	55 - 130	
12.05		7684								
12.14		3862								
12.28		10511								
12.45	12.38 12.52	93996	2589888	Heptachlor	0.036293	7.287768	2.048193	121.0	50 - 140	
12.71		15987								
12.94		2420								
13.05		3746								
13.18	13.11 13.25	61261	2391920	Aldrin	0.025612	5.142900	2.048193	85.4	45 - 140	
13.38		2361								
13.55		4180								
13.67		5978								
13.80		6754								
13.91		9875								
13.98		72609								
14.10		5717								
14.23		3126								
14.29		35425								
14.48		1514								
14.63	14.56 14.70	73890	2235460	Heptachlor Epoxide	0.033053	6.637179	2.048193	110.2	65 - 130	
14.72		11506								
14.91	14.84 14.98	64069	2245768	gamma-Chlordane	0.028529	5.728670	2.048193	95.1	65 - 125	
14.99		1027								
15.09		2337								
15.22	15.15 15.29	62349	1924148	alpha-Chlordane	0.032403	6.506611	2.048193	108.0	65 - 120	
15.41	15.34 15.48	152492	2012896	4,4'-DDE	0.075758	15.21235	3.975904	101.0	70 - 125	
15.52	15.45 15.59	58129	2067970	Endosulfan I	0.028109	5.644419	2.048193	93.7	15 - 135	
15.70		1420								
15.79		8134								
15.87		3677								
16.06	15.99 16.13	162213	2037205	Dieldrin	0.079625	15.98891	3.975904	106.2	65 - 125	
16.31		730								
16.42		30205								
16.58	16.51 16.65	123922	1695798	Endrin	0.073075	14.67377	3.975904	97.4	60 - 135	
16.73	16.66 16.80	115881	1534440	4,4'-DDD	0.075520	15.16467	3.975904	100.7	30 - 135	
16.91		2783								
17.08	17.01 17.15	129752	1759840	Endosulfan II	0.073729	14.80511	3.975904	98.3	35 - 140	

CompuChem

Lab Smp Id : 0051919-MS1 Client Smp Id : SB85-1.5-2.5MS
Sample Type : MS Sublist : DODPEST
Inj Date : 02-JUN-2010 00:33 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a.b/8081A_clpestv6.m
Misc. Info : SB85-1.5-2.5MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
17.24		3452								
17.35	17.27 17.41	124133	1722489	4,4'-DDT	0.072066	14.47110	3.975904	96.1	45 - 140	
17.45		2666								
17.55		1977								
17.65		2082								
17.80		2227								
17.91		4085								
18.00	17.93 18.07	57358	1371845	Endrin Aldehyde	0.041810	8.395606	3.975904	55.7	35 - 145	
18.09		6255								
18.20		824938								
18.40	18.33 18.47	59054	731447	Methoxychlor	0.080736	16.21202	20.48193	107.6	55 - 145	J
18.82		572								
18.96	18.89 19.03	108677	1574194	Endosulfan sulfate	0.069036	13.86265	3.975904	92.0	60 - 135	
19.24		3391								
19.36		586								
19.41		1530								
19.57	19.49 19.63	143250	1849761	Endrin Ketone	0.077442	15.55069	3.975904	103.3	65 - 135	
19.93		303								
20.00		332								
20.11		524								
20.43		722								
20.76		344								
20.83		630								
21.38		1117								
21.55		1221								
21.86	21.79 21.93	173216	1622138	Decachlorobiphenyl	0.106783	21.44227		89.0	55 - 130	
23.67		617								
23.89		786								

Data File: /chem/tracegc82.i/f100601a_2C.b/019f0051919-MS1.d

Date : 02-JUN-2010 00:33

Client ID: SB85-1.5-2.5MS

Instrument: tracegc82.i

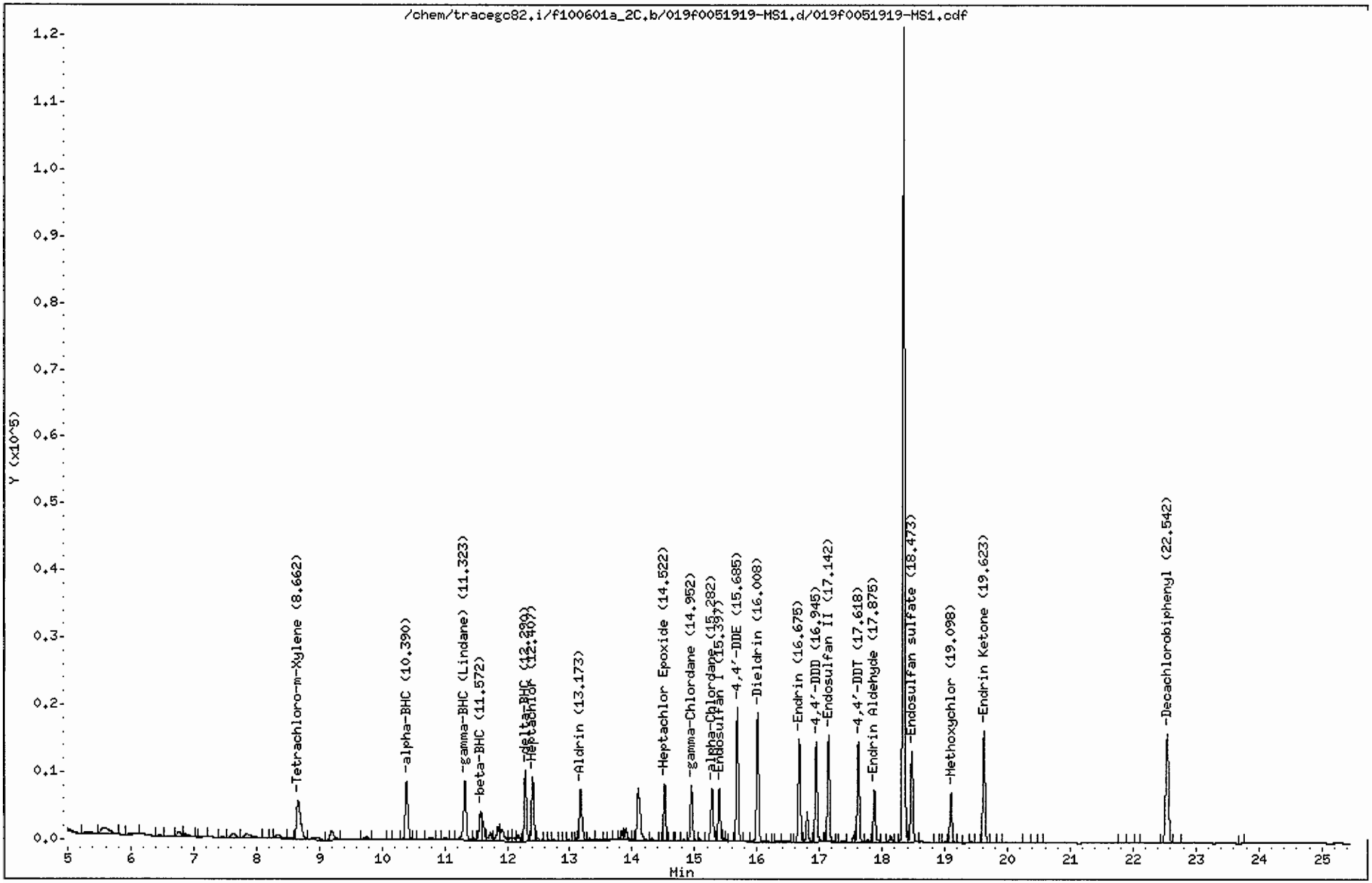
Sample Info: 0051919-MS1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051919-MS1 Client Smp Id : SB85-1.5-2.5MS
Sample Type : MS Sublist : DODPEST
Inj Date : 02-JUN-2010 00:33 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.36		340								
1.51		18506								
2.08		649714								
3.15		36521								
3.52		90294								
4.36		206								
4.84		21439								
5.31		2587								
5.57		8857								
6.02		1378								
6.46		350								
6.76		2860								
6.86		2146								
7.16		499								
7.46		410								
7.63		3275								
7.84		4954								
8.18		154								
8.34		2763								
8.53		778								
8.66	8.59 8.73	25832	548876	Tetrachloro-m-Xylene	0.047062	9.450127		78.4	70 - 125	
8.93		3538								
9.19		6672								
9.76		1525								
10.10		127								
10.39	10.32 10.46	25575	916452	alpha-BHC	0.027905	5.603500	2.048193	93.0	60 - 125	
10.52		163								
10.77		1110								
11.00		753								
11.11		490								
11.32	11.25 11.39	27242	866882	gamma-BHC (Lindane)	0.031424	6.310060	2.048193	104.7	60 - 125	
11.47		936								
11.57	11.50 11.64	13245	347428	beta-BHC	0.038124	7.655464	1.025301	127.1*	60 - 125	RM2
11.61		6375								
11.73		4282								
11.85		7584								
11.92		7145								

KEH 6/2/10

CompuChem

Lab Smp Id : 0051919-MS1 Client Smp Id : SB85-1.5-2.5MS
Sample Type : MS Sublist : DODPEST
Inj Date : 02-JUN-2010 00:33 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.05		1435								
12.09		1904								
12.18		2976								
12.29	12.22 12.36	25305	827595	delta-BHC	0.030575	6.139627	2.048193	101.9	55 - 130	
12.41	12.33 12.47	23883	778205	Heptachlor	0.030690	6.162620	2.048193	102.3	50 - 140	
12.49		1055								
12.67		136								
12.74		318								
12.91		273								
12.98		833								
13.11		853								
13.17	13.10 13.24	20838	726628	Aldrin	0.028678	5.758573	2.048193	95.6	45 - 140	
13.32		1145								
13.44		418								
13.57		247								
13.65		197								
13.83		3260								
13.90		4585								
14.03		318								
14.10		26821								
14.32		1045								
14.52	14.45 14.59	19285	683115	Heptachlor Epoxide	0.028230	5.668576	2.048193	94.1	65 - 130	
14.60		260								
14.75		309								
14.82		671								
14.95	14.88 15.02	20051	690205	gamma-Chlordane	0.029049	5.833201	2.048193	96.8	65 - 125	
15.08		912								
15.28	15.21 15.35	21452	595455	alpha-Chlordane	0.036025	7.233846	2.048193	120.1*	65 - 120	R
15.40	15.33 15.47	18565	638725	Endosulfan I	0.029065	5.836426	2.048193	96.9	15 - 135	M2
15.45		1065								
15.50		507								
15.68	15.61 15.75	43898	617325	4,4'-DDE	0.071110	14.27912	3.975904	94.8	70 - 125	
15.81		308								
16.01	15.94 16.08	45503	598394	Dieldrin	0.076042	15.26946	3.975904	101.4	65 - 125	
16.17		215								
16.31		336								
16.46		960								

KH 6/2/10

CompuChem

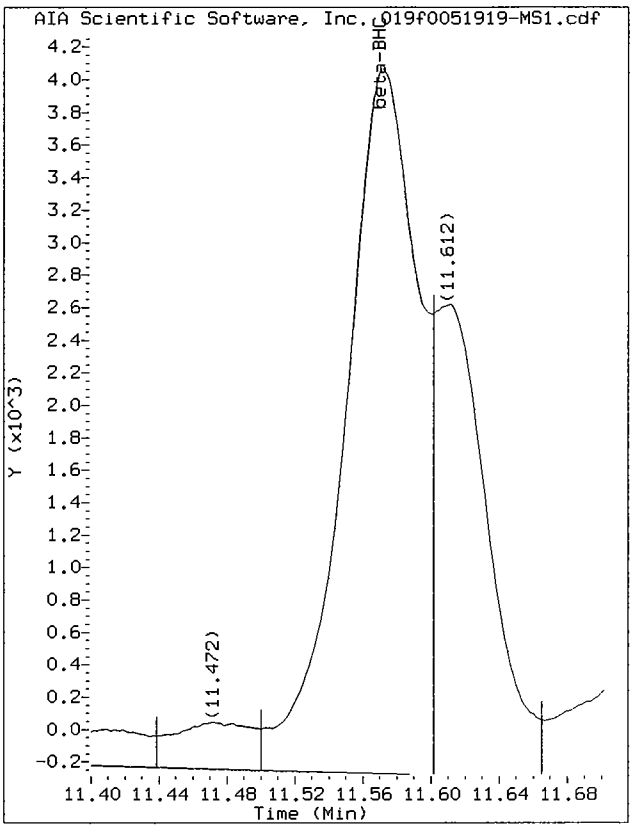
Lab Smp Id : 0051919-MS1 Client Smp Id : SB85-1.5-2.5MS
Sample Type : MS Sublist : DODPEST
Inj Date : 02-JUN-2010 00:33 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5MS

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

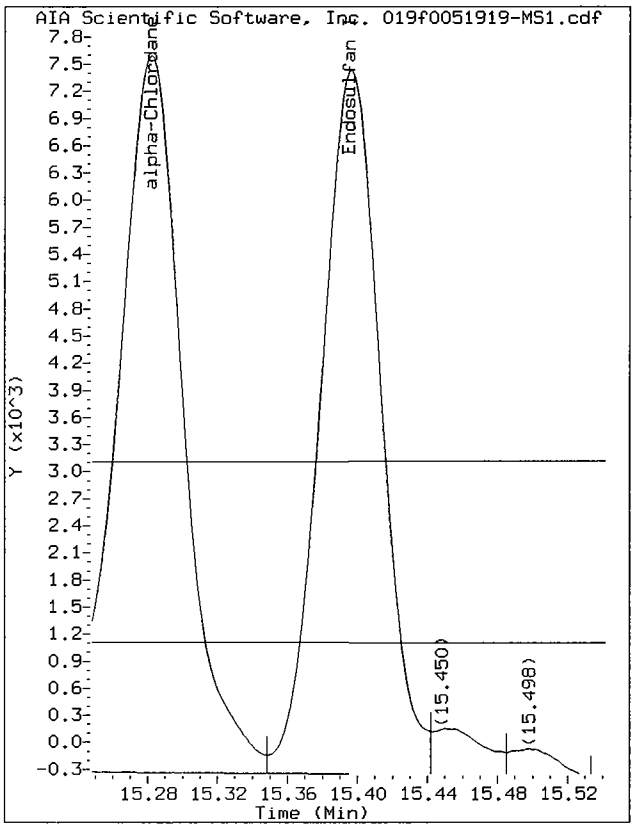
DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
16.68	16.60 16.74	36687	524785	Endrin	0.069909	14.03788	3.975904	93.2	60 - 135	
16.80		10424								
16.94	16.87 17.01	33537	454222	4,4'-DDD	0.073834	14.82608	3.975904	98.4	30 - 135	
17.14	17.07 17.21	37888	526756	Endosulfan II	0.071927	14.44317	3.975904	95.9	35 - 140	
17.36		1008								
17.55		2743								
17.62	17.55 17.69	34371	503765	4,4'-DDT	0.068226	13.70005	3.975904	91.0	45 - 140	
17.77		1170								
17.88	17.81 17.95	19253	425754	Endrin Aldehyde	0.045221	9.080517	3.975904	60.3	35 - 145	
18.14		2066								
18.34		249720								
18.47	18.40 18.54	32758	479624	Endosulfan sulfate	0.068297	13.71431	3.975904	91.1	60 - 135	
18.86		139								
19.01		464								
19.10	19.03 19.17	16865	208391	Methoxychlor	0.080930	16.25092	20.48193	107.9	55 - 145	J
19.38		210								
19.43		390								
19.62	19.55 19.69	40724	535815	Endrin Ketone	0.076002	15.26144	3.975904	101.3	65 - 135	
19.86		138								
20.28		286								
20.52		157								
21.83		366								
22.07		262								
22.54	22.47 22.61	51911	497254	Decachlorobiphenyl	0.104393	20.96249		87.0	55 - 130	
22.68		620								
23.76		136								

Manually Integrated Peaks

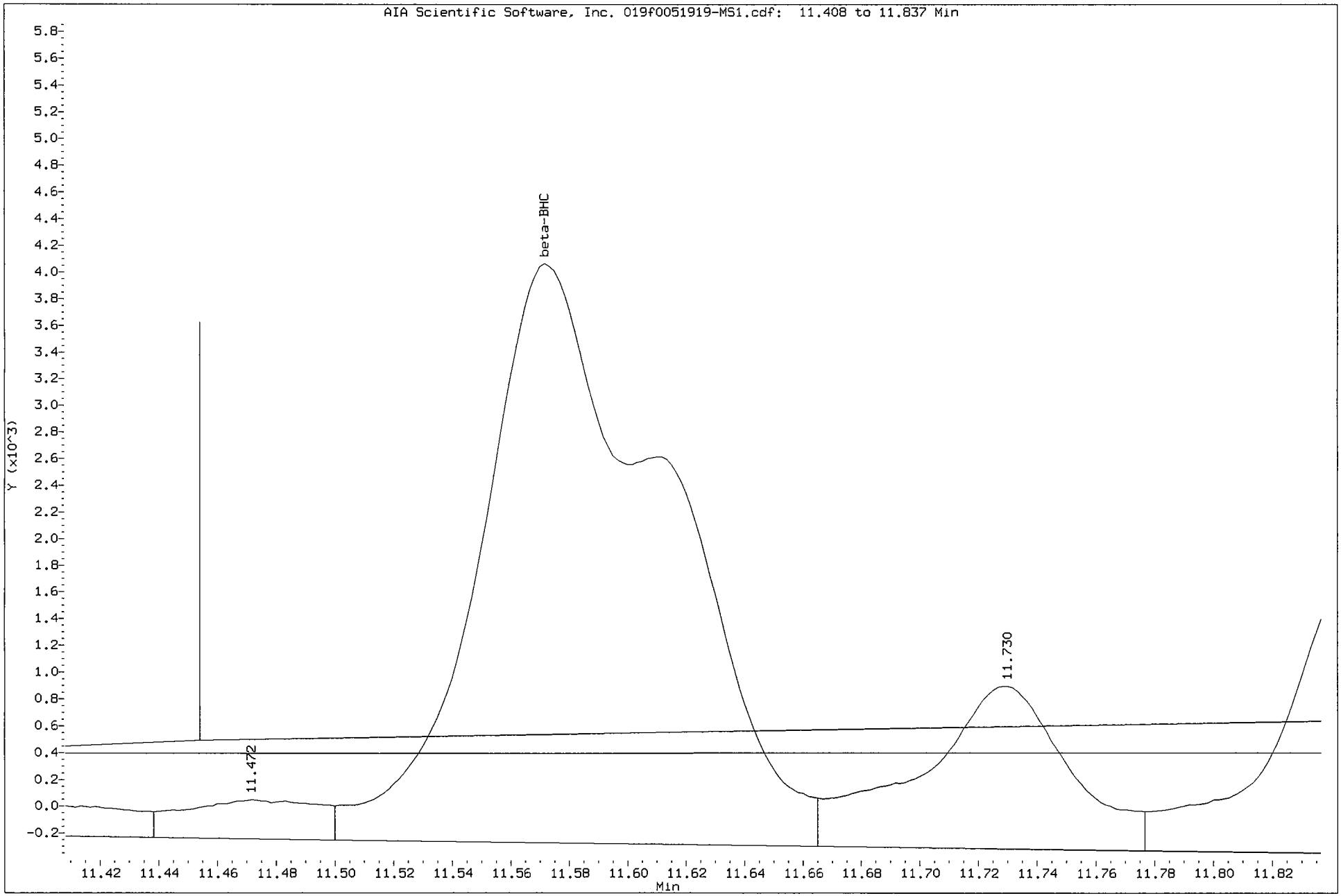


Start: 11.50 Stop: 11.60

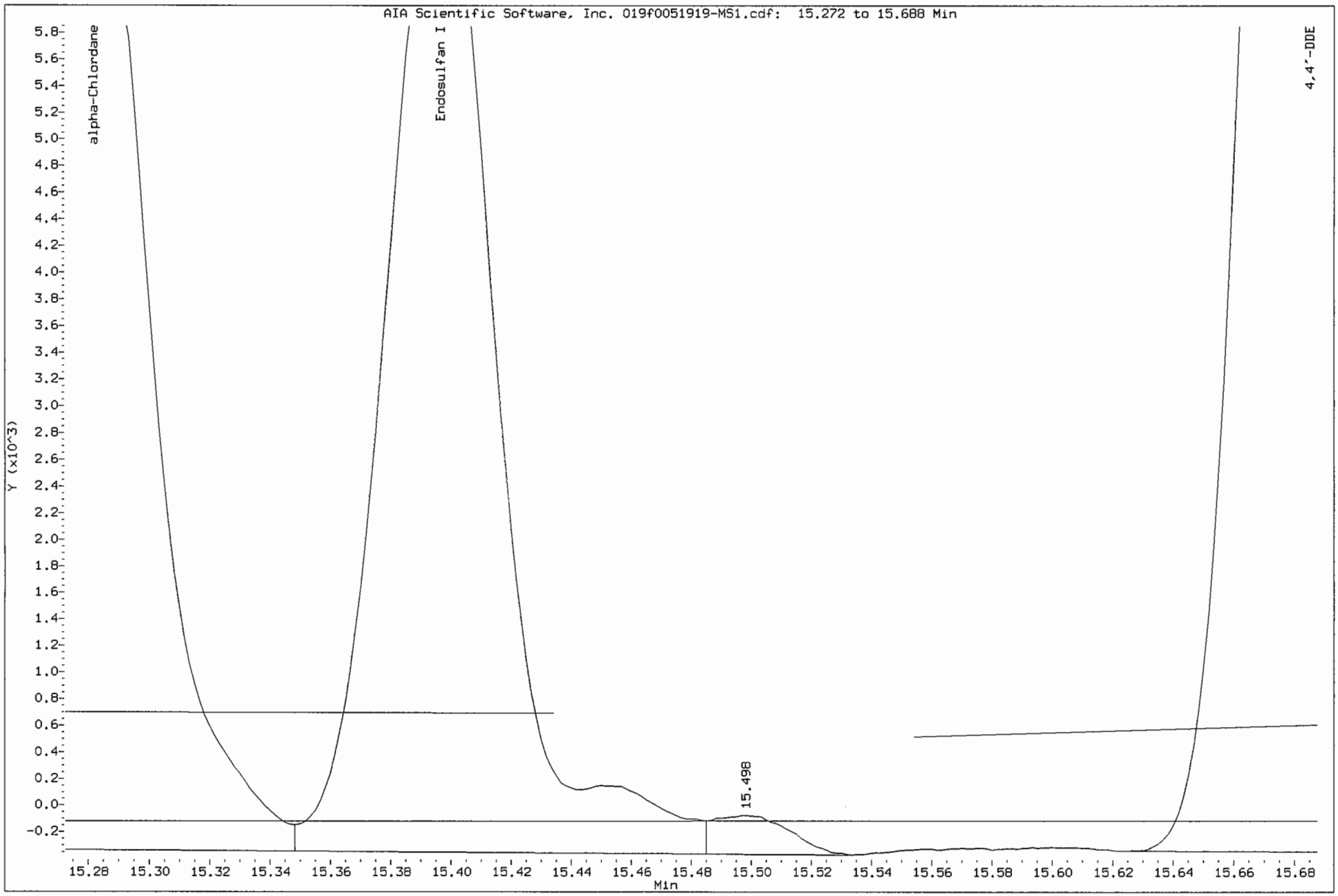


Start: 15.35 Stop: 15.44

Data File: /chem/tracegc82.i/f100601a_2C.b/019f0051919-MS1.d/019f0051919-MS1.cdf
Injection Date: 02-JUN-2010 00:33
Instrument: tracegc82.i
Client Sample ID: SB85-1.5-2.5MS



Data File: /chem/tracegc82.i/f100601a_2C.b/019f0051919-MS1.d/019f0051919-MS1.cdf
Injection Date: 02-JUN-2010 00:33
Instrument: tracegc82.i
Client Sample ID: SB85-1.5-2.5MS



d. Matrix Spike Duplicate Data

- Tabulated Results (Form I)

- Chromatograms and data system printout(s)

1D

GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB85-1.5-2.5MSD

Lab Name: COMPUCHEM Contract: 8081B

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051919-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: _____

% Moisture: 17 decanted: (Y/N) N Date Received: 05/14/10

Extraction: (SepF/Cont/Sonc) SONC Date Extracted:05/20/10

Concentrated Extract Volume: 5000(uL) Date Analyzed: 06/02/10

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
309-00-2	Aldrin	4.9	
319-85-7	beta-BHC	5.3	
319-84-6	alpha-BHC	5.2	
319-86-8	delta-BHC	5.7	
58-89-9	gamma-BHC (Lindane)	5.0	
72-54-8	4,4'-DDD	14	
72-55-9	4,4'-DDE	13	
50-29-3	4,4'-DDT	12	
60-57-1	Dieldrin	14	
959-98-8	Endosulfan I	5.3	
33213-65-9	Endosulfan II	13	
1031-07-8	Endosulfan sulfate	12	
72-20-8	Endrin	13	
7421-93-4	Endrin Aldehyde	7.8	
76-44-8	Heptachlor	5.8	
1024-57-3	Heptachlor Epoxide	5.3	
72-43-5	Methoxychlor	15	J
8001-35-2	Toxaphene	100	U
53494-70-5	Endrin Ketone	13	
5103-74-2	gamma-Chlordane	5.4	
5103-71-9	alpha-Chlordane	6.2	

Data File: /chem/tracegc82.i/f100601a_2C.b/021f0051919-MSD1.d

Page 1

Date : 02-JUN-2010 01:31

Client ID: SB85-1.5-2.5MSD

Instrument: tracegc82.i

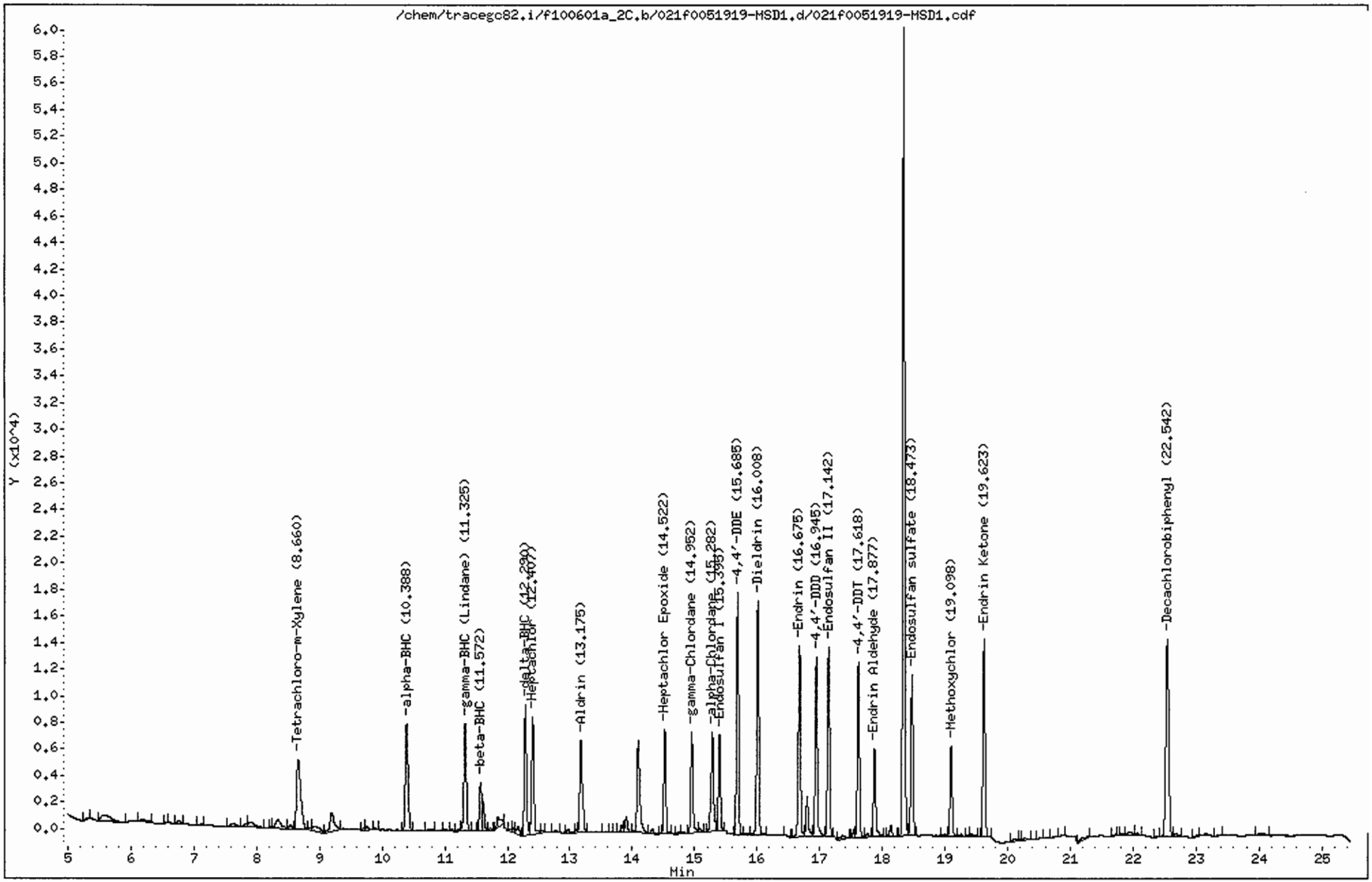
Sample Info: 0051919-MSD1

Volume Injected (uL): 1.0

Operator: BWL

Column phase: clpest2

Column diameter: 0.32



CompuChem

Lab Smp Id : 0051919-MSD1 Client Smp Id : SB85-1.5-2.5MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 02-JUN-2010 01:31 Inst ID : TRACEGC82
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW		AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
1.04			130								
1.37			350								
2.07			740619								
3.15			45966								
3.52			71203								
4.38			357								
4.81			236								
5.32			356								
5.55			5188								
6.19			799								
6.59			141								
6.76			743								
7.13			131								
7.63			1445								
7.83			843								
7.90			2977								
8.25			218								
8.34			4273								
8.53			908								
8.66	8.59	8.73	24290	548876	Tetrachloro-m-Xylene	0.044254	8.886361		73.8	70 - 125	
8.86			579								
8.93			2935								
9.20			6773								
9.71			258								
9.76			1068								
9.89			368								
10.39	10.32	10.46	23845	916452	alpha-BHC	0.026018	5.224441	2.048193	86.7	60 - 125	
10.78			626								
11.00			500								
11.10			354								
11.23			391								
11.32	11.25	11.39	21799	866882	gamma-BHC (Lindane)	0.025146	5.049484	2.048193	83.8	60 - 125	
11.57	11.50	11.64	9423	347428	beta-BHC	0.027122	5.446226	1.025301	90.4	60 - 125	M
11.60			4475								
11.73			447								
11.85			3108								
12.05			548								

6/2/10

CompuChem

Lab Smp Id : 0051919-MSD1 Client Smp Id : SB85-1.5-2.5MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 02-JUN-2010 01:31 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
12.10		957								
12.18		1849								
12.29	12.22 12.36	23530	827595	delta-BHC	0.028431	5.708950	2.048193	94.8	55 - 130	
12.41	12.33 12.47	22618	778205	Heptachlor	0.029063	5.835949	2.048193	96.9	50 - 140	
12.55		352								
12.76		506								
12.97		907								
13.11		455								
13.18	13.10 13.24	20482	726628	Aldrin	0.028188	5.660192	2.048193	94.0	45 - 140	
13.57		168								
13.71		134								
13.83		1463								
13.90		3197								
14.03		323								
14.10		20988								
14.32		1064								
14.52	14.45 14.59	18014	683115	Heptachlor Epoxide	0.026369	5.294962	2.048193	87.9	65 - 130	
14.74		265								
14.83		411								
14.95	14.88 15.02	18572	690205	gamma-Chlordane	0.026908	5.403202	2.048193	89.7	65 - 125	
15.08		645								
15.28	15.21 15.35	20973	595455	alpha-Chlordane	0.035220	7.072314	2.048193	117.4	65 - 120	
15.40	15.33 15.47	17083	638725	Endosulfan I	0.026744	5.370262	2.048193	89.1	15 - 135	
15.68	15.61 15.75	40007	617325	4,4'-DDE	0.064807	13.01346	3.975904	86.4	70 - 125	
15.81		173								
16.01	15.94 16.08	41033	598394	Dieldrin	0.068572	13.76946	3.975904	91.4	65 - 125	
16.46		229								
16.68	16.60 16.74	34931	524785	Endrin	0.066561	13.36558	3.975904	88.7	60 - 135	
16.80		8214								
16.94	16.87 17.01	31332	454222	4,4'-DDD	0.068977	13.85085	3.975904	92.0	30 - 135	
17.14	17.07 17.21	33501	526756	Endosulfan II	0.063599	12.77082	3.975904	84.8	35 - 140	
17.36		1428								
17.54		1274								
17.62	17.55 17.69	30082	503765	4,4'-DDT	0.059714	11.99083	3.975904	79.6	45 - 140	
17.77		648								
17.88	17.81 17.95	16490	425754	Endrin Aldehyde	0.038731	7.777371	3.975904	51.6	35 - 145	
18.14		2027								

CompuChem

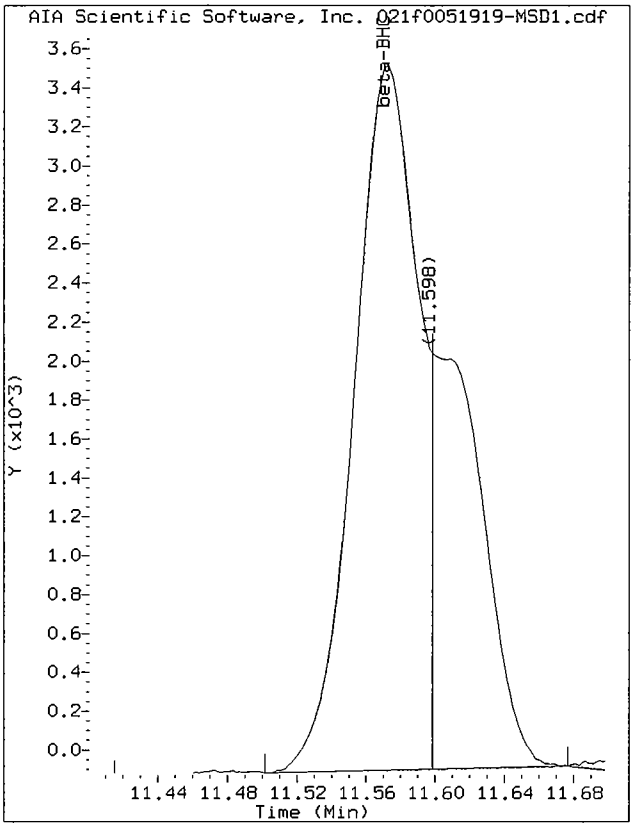
Lab Smp Id : 0051919-MSD1 Client Smp Id : SB85-1.5-2.5MSD
Sample Type : MSD Sublist : DODPEST
Inj Date : 02-JUN-2010 01:31 Inst ID :
Operator : BWL Spike Sublist : DODSoil
Method : /chem/tracegc82.i/f100601a_2C.b/8081A_clpest2v6.m
Misc. Info : SB85-1.5-2.5MSD

Formula: Conc=(Area/RF) * DF * (Uf * Vt/(Vi * Ws) * (100/(100-M))

DF Dilution Factor: 1.0 Uf GPC Unit Factor: 1
Vt Final Volume: 5000(ul) Vi Injection Volume: 1(ul)
Ws Sample Weight: 30.0(g) M Moisture: 17(%)

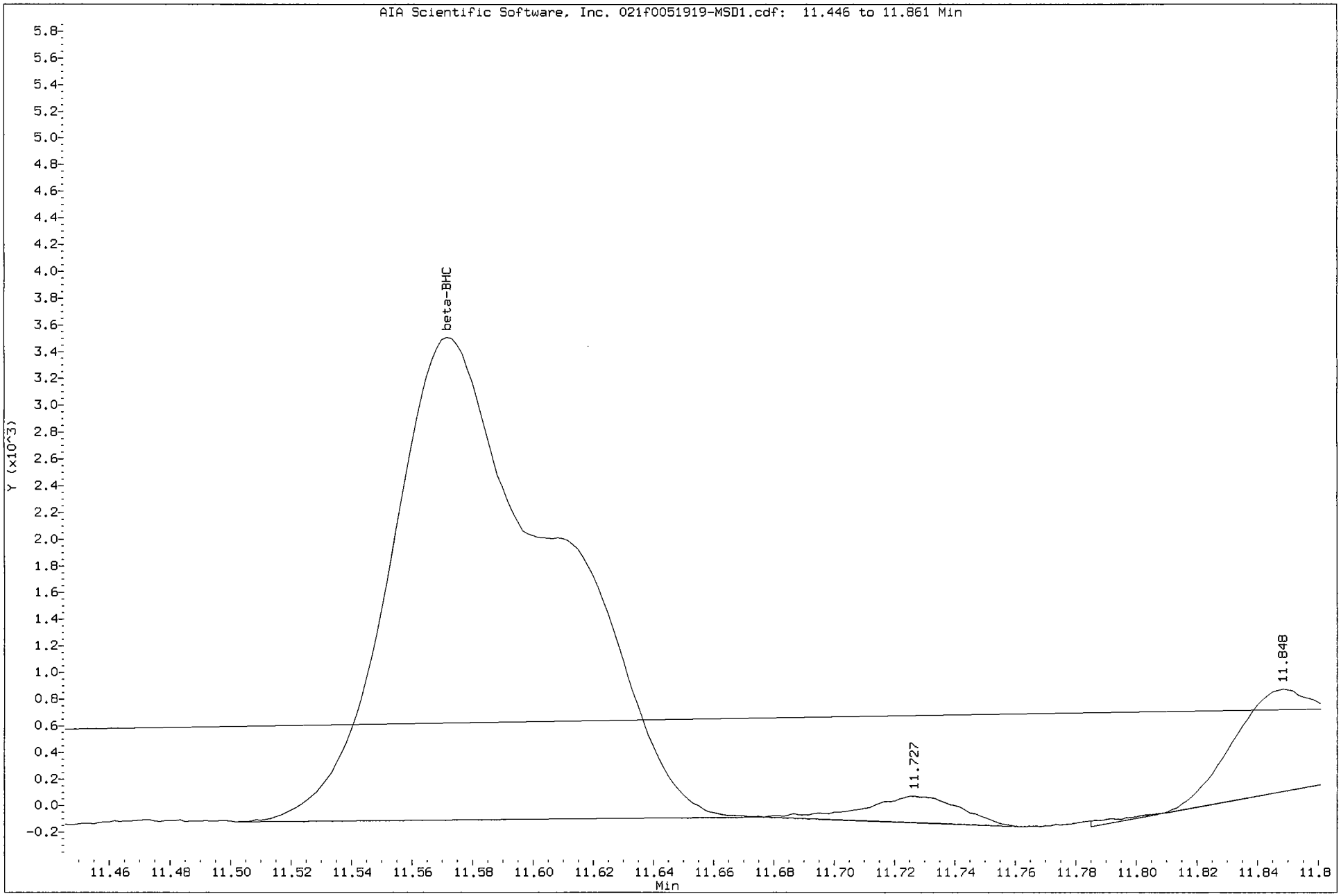
RT	RT WINDOW	AREA	QUANT RF	COMPOUND	CONCENTRATIONS ON-COLUMN (Ng)	CONCENTRATIONS FINAL (ug/Kg)	ADJUSTED PQL (ug/Kg)	% REC	RECOVERY LIMITS	FLAGS
18.34		128434								
18.47	18.40 18.54	28514	479624	Endosulfan sulfate	0.059449	11.93749	3.975904	79.3	60 - 135	
19.00		393								
19.10	19.03 19.17	15604	208391	Methoxychlor	0.074874	15.03487	20.48193	99.8	55 - 145	J
19.26		314								
19.39		124								
19.43		516								
19.62	19.55 19.69	36000	535815	Endrin Ketone	0.067186	13.49106	3.975904	89.6	65 - 135	
20.13		837								
20.20		435								
20.28		733								
20.52		177								
20.78		411								
20.89		143								
21.30		1385								
21.72		150								
21.83		245								
21.94		1367								
22.06		636								
22.41		215								
22.54	22.47 22.61	48426	497254	Decachlorobiphenyl	0.097387	19.55557		81.2	55 - 130	
22.68		626								
23.02		225								
23.39		207								
24.05		1141								

Manually Integrated Peaks



Start: 11.50 Stop: 11.60

Data File: /chem/tracegc82.i/f100601a_2C.b/021f0051919-MSD1.d/021f0051919-MSD1.cdf
Injection Date: 02-JUN-2010 01:31
Instrument: tracegc82.i
Client Sample ID: SB85-1.5-2.5MSD



CompuChem

A Division Of

Liberty Analytical Corp.

6/24/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S, WorkOrder: 1005132

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Joan Purdee

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005132

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005132

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005132-01	SB85-1.5-2.5	Soil	05/13/2010 07:45	05/14/2010 09:20
1005132-02	SB78-3.5-4.5	Soil	05/13/2010 10:40	05/14/2010 09:20
1005132-03	SS77-0-1	Soil	05/13/2010 12:05	05/14/2010 16:00
1005132-04	SB77-3.5-4.5	Soil	05/13/2010 12:10	05/14/2010 16:00
1005132-05	SS79-0-1	Soil	05/13/2010 15:10	05/14/2010 16:00
1005132-06	SB79-11-12	Soil	05/13/2010 15:30	05/14/2010 16:00
1005132-07	SS83-0-1	Soil	05/13/2010 15:55	05/14/2010 16:00
1005132-08	SB83-6.5-7.5	Soil	05/13/2010 16:05	05/14/2010 16:00
1005132-09	SS62-0-1	Soil	05/13/2010 16:40	05/14/2010 16:00
1005132-10	SS74-0-1	Soil	05/14/2010 10:15	05/14/2010 16:00
1005132-11	SS86-0-1	Soil	05/14/2010 11:05	05/14/2010 16:00
1005132-12	SB86-3-4	Soil	05/14/2010 11:15	05/14/2010 16:00
1005132-13	SS84-0-1	Soil	05/14/2010 08:55	05/14/2010 16:00
1005132-14	SB84-6-7	Soil	05/14/2010 09:05	05/14/2010 16:00
1005132-15	SS81-0-1	Soil	05/18/2010 16:00	05/21/2010 16:00
1005132-16	SB81-5-6	Soil	05/18/2010 16:20	05/21/2010 16:00
1005132-17	SS71-0-1	Soil	05/19/2010 07:35	05/21/2010 16:00
1005132-18	SS71D-0-1	Soil	05/19/2010 07:40	05/21/2010 16:00
1005132-19	SB71-4-5	Soil	05/19/2010 07:55	05/21/2010 16:00
1005132-20	SB71D-4-5	Soil	05/19/2010 08:00	05/21/2010 16:00

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC/MS by SW-846

Modified For Selected Ion Monitoring (SIM)

The sample data summary package shall contain data for all samples in one Sample Delivery Group (SDG) of the Case, as follows:

A. SDG Narrative

B. Tabulated target compound results (Form I)

C. Surrogate spike analysis results (Form II)
By matrix (Water or Soil), and
by concentration (Low or Medium)

D. Spike results MS / MSD / LCS (Form III)

E. Blank data (Form IV)
Tabulated blank results (Form I)

F. Internal standard area response and retention time data (Form VIII)

LAB CODE : LIBRTY

METHOD: 8270C

SDG # : 1005132

A. SDG Narrative

CompuChem
A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005132
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SB71-4-5, SB71D-4-5, SB77-3.5-4.5, SB78-3.5-4.5, SB79-11-12, SB81-5-6, SB83-6.5-7.5, SB84-6-7, SB85-1.5-2.5, SB86-3-4, SS62-0-1, SS71-0-1, SS71D-0-1, SS74-0-1, SS77-0-1, SS79-0-1, SS81-0-1, SS83-0-1, SS84-0-1, SS86-0-1.

The nineteen soil samples listed above were received intact, properly refrigerated between 0.7-4.3°C, with proper documentation, in sealed shipping containers, on May 14-21, 2010. The samples were scheduled for the requested analyses of the semivolatile fraction. SW-846, 3rd Edition, Update 3, Sonication extraction (Method 3550B), Method 8270C and Selected Ion Monitoring (SIM) were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for SDG # 1005132 are included in the sample data sections. The percent moisture values of these soil samples ranged from 3-69. Extraction and analysis holding time requirements were met for all of these samples.

Fluoranthene and pyrene were identified above the reporting limit in SS77-0-1. Manual quantitations were performed on all of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

In the initial analysis of SB86-3-4, SCDLCS, SB81-5-6, SS71-0-1, SS71D-0-1 and SB71-4-5, the recovery of the surrogate, 2-fluorobiphenyl, failed DoD quality control criteria. The recovery of 2-fluorobiphenyl was within our in house limits. In the initial analysis of SS81-0-1, terphenyl-d14, failed surrogate recovery criteria bias high. There were no target analyte hits above the reporting limit in this sample.

In the initial analysis of SS77-0-1, SB77-3.5-4.5, SB79-11-12, SS83-0-1, SS84-0-1, the response of several internal standards failed quality control criteria. The samples were reinjected and the internal standard again failed response criteria. We have attributed the failing internal standard responses to the particular matrix of the sample. Therefore we have reported both analyses of SS77-0-1, SB77-3.5-4.5, SB79-11-12, SS83-0-1, SS84-0-1.

Mass assignments were verified by the injections of perfluorotributylamine (PFTBA). All of the surrogates, not previously discussed, met recovery criteria in these samples. All of the internal standards in samples, not previously discussed, met response and retention time criteria. The associated method blanks met all quality control criteria. The associated Laboratory Control Samples (LCSs) and Laboratory Control Sample Duplicates (LCSDs) met overall precision criteria. SB85-1.5-2.5 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met overall advisory accuracy and precision criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Rebecca K Mead

Rebecca K. Mead, Ph.D.
Laboratory Director
June 24, 2010

GC and GC/MS Column and Trap Specifications Table

SDG #:	

COLUMNS*

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
√	Restek	clpest	0.32	0.5	30
√	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
√	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS*

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semi-volatiles, pesticides, and Aroclors by the SOM01.2 SOW. Please see the SDG Narratives(s) for the specific fraction(s) relative to this SDG.

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Form I

Organic Analysis Data Sheet (OADS)
- All samples in alphanumeric order
- Matrix Spike/Matrix Spike Duplicate
- Laboratory Control Sample(s)

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB71-4-5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-19JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 20 decanted: (Y/N) N Date Extracted:05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB71D-4-5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-20JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 20 decanted: (Y/N) N Date Extracted:05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB77-3.5-4.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-04C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 10 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.1	J
91-57-6	2-Methylnaphthalene	0.85	J
208-96-8	Acenaphthylene	9.2	U
83-32-9	Acenaphthene	9.2	U
86-73-7	Fluorene	9.2	U
85-01-8	Phenanthrene	9.2	U
120-12-7	Anthracene	9.2	U
206-44-0	Fluoranthene	9.2	U
129-00-0	Pyrene	9.2	U
56-55-3	Benzo(a)anthracene	9.2	U
218-01-9	Chrysene	9.2	U
205-99-2	Benzo(b)fluoranthene	9.2	U
207-08-9	Benzo(k)fluoranthene	9.2	U
50-32-8	Benzo(a)pyrene	9.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.2	U
53-70-3	Dibenzo(a,h)anthracene	9.2	U
191-24-2	Benzo(g,h,i)perylene	9.2	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB77-3.5-4.5RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-04JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 10 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.4	J
91-57-6	2-Methylnaphthalene	0.77	J
208-96-8	Acenaphthylene	9.2	U
83-32-9	Acenaphthene	9.2	U
86-73-7	Fluorene	9.2	U
85-01-8	Phenanthrene	9.2	U
120-12-7	Anthracene	9.2	U
206-44-0	Fluoranthene	9.2	U
129-00-0	Pyrene	9.2	U
56-55-3	Benzo(a)anthracene	9.2	U
218-01-9	Chrysene	9.2	U
205-99-2	Benzo(b)fluoranthene	9.2	U
207-08-9	Benzo(k)fluoranthene	9.2	U
50-32-8	Benzo(a)pyrene	9.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.2	U
53-70-3	Dibenzo(a,h)anthracene	9.2	U
191-24-2	Benzo(g,h,i)perylene	9.2	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB78-3.5-4.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-02C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 14 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.2	J
91-57-6	2-Methylnaphthalene	0.86	J
208-96-8	Acenaphthylene	9.7	U
83-32-9	Acenaphthene	9.7	U
86-73-7	Fluorene	9.7	U
85-01-8	Phenanthrene	9.7	U
120-12-7	Anthracene	9.7	U
206-44-0	Fluoranthene	9.7	U
129-00-0	Pyrene	9.7	U
56-55-3	Benzo(a)anthracene	9.7	U
218-01-9	Chrysene	9.7	U
205-99-2	Benzo(b)fluoranthene	9.7	U
207-08-9	Benzo(k)fluoranthene	9.7	U
50-32-8	Benzo(a)pyrene	9.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.7	U
53-70-3	Dibenzo(a,h)anthracene	9.7	U
191-24-2	Benzo(g,h,i)perylene	9.7	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB79-11-12

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-06C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB79-11-12RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-06JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB81-5-6

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-16JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 7 decanted: (Y/N) N Date Extracted: 05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.9	U
91-57-6	2-Methylnaphthalene	8.9	U
208-96-8	Acenaphthylene	8.9	U
83-32-9	Acenaphthene	8.9	U
86-73-7	Fluorene	8.9	U
85-01-8	Phenanthrene	8.9	U
120-12-7	Anthracene	8.9	U
206-44-0	Fluoranthene	8.9	U
129-00-0	Pyrene	8.9	U
56-55-3	Benzo(a)anthracene	8.9	U
218-01-9	Chrysene	8.9	U
205-99-2	Benzo(b)fluoranthene	8.9	U
207-08-9	Benzo(k)fluoranthene	8.9	U
50-32-8	Benzo(a)pyrene	8.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.9	U
53-70-3	Dibenzo(a,h)anthracene	8.9	U
191-24-2	Benzo(g,h,i)perylene	8.9	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB83-6.5-7.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-08J2C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 15 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.8	U
91-57-6	2-Methylnaphthalene	9.8	U
208-96-8	Acenaphthylene	9.8	U
83-32-9	Acenaphthene	9.8	U
86-73-7	Fluorene	9.8	U
85-01-8	Phenanthrene	9.8	U
120-12-7	Anthracene	9.8	U
206-44-0	Fluoranthene	9.8	U
129-00-0	Pyrene	9.8	U
56-55-3	Benzo(a)anthracene	9.8	U
218-01-9	Chrysene	9.8	U
205-99-2	Benzo(b)fluoranthene	9.8	U
207-08-9	Benzo(k)fluoranthene	9.8	U
50-32-8	Benzo(a)pyrene	9.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.8	U
53-70-3	Dibenzo(a,h)anthracene	9.8	U
191-24-2	Benzo(g,h,i)perylene	9.8	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB84-6-7

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-14J2C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 18 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB85-1.5-2.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-01JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.1	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB86-3-4

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-12J2C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 16 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.9	U
91-57-6	2-Methylnaphthalene	9.9	U
208-96-8	Acenaphthylene	9.9	U
83-32-9	Acenaphthene	9.9	U
86-73-7	Fluorene	9.9	U
85-01-8	Phenanthrene	9.9	U
120-12-7	Anthracene	9.9	U
206-44-0	Fluoranthene	9.9	U
129-00-0	Pyrene	0.68	J
56-55-3	Benzo(a)anthracene	9.9	U
218-01-9	Chrysene	9.9	U
205-99-2	Benzo(b)fluoranthene	9.9	U
207-08-9	Benzo(k)fluoranthene	9.9	U
50-32-8	Benzo(a)pyrene	9.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.9	U
53-70-3	Dibenzo(a,h)anthracene	9.9	U
191-24-2	Benzo(g,h,i)perylene	9.9	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS62-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-09JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 69 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	5.3	J
91-57-6	2-Methylnaphthalene	4.0	J
208-96-8	Acenaphthylene	4.6	J
83-32-9	Acenaphthene	27	U
86-73-7	Fluorene	27	U
85-01-8	Phenanthrene	10	J
120-12-7	Anthracene	27	U
206-44-0	Fluoranthene	14	J
129-00-0	Pyrene	12	J
56-55-3	Benzo(a)anthracene	5.4	J
218-01-9	Chrysene	8.5	J
205-99-2	Benzo(b)fluoranthene	15	J
207-08-9	Benzo(k)fluoranthene	8.3	J
50-32-8	Benzo(a)pyrene	7.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	7.5	J
53-70-3	Dibenzo(a,h)anthracene	27	U
191-24-2	Benzo(g,h,i)perylene	27	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS71-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-17JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 9 decanted: (Y/N) N Date Extracted:05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	9.1	U
86-73-7	Fluorene	9.1	U
85-01-8	Phenanthrene	9.1	U
120-12-7	Anthracene	9.1	U
206-44-0	Fluoranthene	9.1	U
129-00-0	Pyrene	9.1	U
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenzo(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS71D-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-18JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 9 decanted: (Y/N) N Date Extracted: 05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	9.1	U
86-73-7	Fluorene	9.1	U
85-01-8	Phenanthrene	9.1	U
120-12-7	Anthracene	9.1	U
206-44-0	Fluoranthene	9.1	U
129-00-0	Pyrene	1.0	J
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	0.75	J
205-99-2	Benzo(b)fluoranthene	0.69	J
207-08-9	Benzo(k)fluoranthene	0.91	J
50-32-8	Benzo(a)pyrene	0.59	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.78	J
53-70-3	Dibenzo(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	0.76	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS74-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-10JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 3 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.76	J
91-57-6	2-Methylnaphthalene	8.6	U
208-96-8	Acenaphthylene	8.6	U
83-32-9	Acenaphthene	8.6	U
86-73-7	Fluorene	8.6	U
85-01-8	Phenanthrene	8.6	U
120-12-7	Anthracene	8.6	U
206-44-0	Fluoranthene	8.6	U
129-00-0	Pyrene	8.6	U
56-55-3	Benzo(a)anthracene	8.6	U
218-01-9	Chrysene	8.6	U
205-99-2	Benzo(b)fluoranthene	8.6	U
207-08-9	Benzo(k)fluoranthene	0.47	J
50-32-8	Benzo(a)pyrene	8.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	J
53-70-3	Dibenzo(a,h)anthracene	8.6	U
191-24-2	Benzo(g,h,i)perylene	8.6	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS77-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-03C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 23 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.7	J
91-57-6	2-Methylnaphthalene	1.3	J
208-96-8	Acenaphthylene	1.1	J
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
85-01-8	Phenanthrene	2.7	J
120-12-7	Anthracene	1.2	J
206-44-0	Fluoranthene	14	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	4.8	J
218-01-9	Chrysene	7.5	J
205-99-2	Benzo(b)fluoranthene	7.9	J
207-08-9	Benzo(k)fluoranthene	6.5	J
50-32-8	Benzo(a)pyrene	4.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	J
53-70-3	Dibenzo(a,h)anthracene	0.72	J
191-24-2	Benzo(g,h,i)perylene	2.3	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS77-0-1RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-03JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 23 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.9	J
91-57-6	2-Methylnaphthalene	1.4	J
208-96-8	Acenaphthylene	2.1	J
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
85-01-8	Phenanthrene	2.8	J
120-12-7	Anthracene	2.6	J
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	4.7	J
218-01-9	Chrysene	7.5	J
205-99-2	Benzo(b)fluoranthene	8.6	J
207-08-9	Benzo(k)fluoranthene	6.1	J
50-32-8	Benzo(a)pyrene	4.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	J
53-70-3	Dibenzo(a,h)anthracene	0.68	J
191-24-2	Benzo(g,h,i)perylene	2.2	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS79-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-05C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 4 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.7	J
91-57-6	2-Methylnaphthalene	0.92	J
208-96-8	Acenaphthylene	8.6	U
83-32-9	Acenaphthene	8.6	U
86-73-7	Fluorene	8.6	U
85-01-8	Phenanthrene	1.8	J
120-12-7	Anthracene	8.6	U
206-44-0	Fluoranthene	8.6	U
129-00-0	Pyrene	0.76	J
56-55-3	Benzo(a)anthracene	8.6	U
218-01-9	Chrysene	0.67	J
205-99-2	Benzo(b)fluoranthene	8.6	U
207-08-9	Benzo(k)fluoranthene	0.52	J
50-32-8	Benzo(a)pyrene	8.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.6	U
53-70-3	Dibenzo(a,h)anthracene	8.6	U
191-24-2	Benzo(g,h,i)perylene	8.6	U

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS81-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-15A66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 3 decanted: (Y/N) N Date Extracted: 05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/01/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.0	J
91-57-6	2-Methylnaphthalene	8.6	U
208-96-8	Acenaphthylene	8.6	U
83-32-9	Acenaphthene	8.6	U
86-73-7	Fluorene	8.6	U
85-01-8	Phenanthrene	2.5	J
120-12-7	Anthracene	8.6	U
206-44-0	Fluoranthene	2.4	J
129-00-0	Pyrene	1.8	J
56-55-3	Benzo(a)anthracene	0.86	J
218-01-9	Chrysene	1.3	J
205-99-2	Benzo(b)fluoranthene	1.4	J
207-08-9	Benzo(k)fluoranthene	0.84	J
50-32-8	Benzo(a)pyrene	0.76	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.74	J
53-70-3	Dibenzo(a,h)anthracene	8.6	U
191-24-2	Benzo(g,h,i)perylene	0.59	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS83-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-07C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 6 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.5	J
91-57-6	2-Methylnaphthalene	0.84	J
208-96-8	Acenaphthylene	8.8	U
83-32-9	Acenaphthene	8.8	U
86-73-7	Fluorene	8.8	U
85-01-8	Phenanthrene	8.8	U
120-12-7	Anthracene	8.8	U
206-44-0	Fluoranthene	8.8	U
129-00-0	Pyrene	1.1	J
56-55-3	Benzo(a)anthracene	0.64	J
218-01-9	Chrysene	1.0	J
205-99-2	Benzo(b)fluoranthene	1.4	J
207-08-9	Benzo(k)fluoranthene	0.90	J
50-32-8	Benzo(a)pyrene	0.78	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.65	J
53-70-3	Dibenzo(a,h)anthracene	8.8	U
191-24-2	Benzo(g,h,i)perylene	0.54	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SS83-0-1RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-07JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 6 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.7	J
91-57-6	2-Methylnaphthalene	8.8	U
208-96-8	Acenaphthylene	8.8	U
83-32-9	Acenaphthene	8.8	U
86-73-7	Fluorene	8.8	U
85-01-8	Phenanthrene	8.8	U
120-12-7	Anthracene	8.8	U
206-44-0	Fluoranthene	8.8	U
129-00-0	Pyrene	0.98	J
56-55-3	Benzo(a)anthracene	8.8	U
218-01-9	Chrysene	0.99	J
205-99-2	Benzo(b)fluoranthene	1.3	J
207-08-9	Benzo(k)fluoranthene	0.95	J
50-32-8	Benzo(a)pyrene	0.71	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.65	J
53-70-3	Dibenzo(a,h)anthracene	8.8	U
191-24-2	Benzo(g,h,i)perylene	0.55	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SS84-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-13A66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 5 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U
91-57-6	2-Methylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	8.7	U
86-73-7	Fluorene	8.7	U
85-01-8	Phenanthrene	8.7	U
120-12-7	Anthracene	8.7	U
206-44-0	Fluoranthene	2.5	J
129-00-0	Pyrene	2.2	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	2.2	J
205-99-2	Benzo(b)fluoranthene	2.1	J
207-08-9	Benzo(k)fluoranthene	1.5	J
50-32-8	Benzo(a)pyrene	1.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.4	J
53-70-3	Dibenzo(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	1.4	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS84-0-1RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-13JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 5 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U
91-57-6	2-Methylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	8.7	U
86-73-7	Fluorene	8.7	U
85-01-8	Phenanthrene	8.7	U
120-12-7	Anthracene	8.7	U
206-44-0	Fluoranthene	2.7	J
129-00-0	Pyrene	2.4	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	2.0	J
205-99-2	Benzo(b)fluoranthene	1.8	J
207-08-9	Benzo(k)fluoranthene	1.8	J
50-32-8	Benzo(a)pyrene	1.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	J
53-70-3	Dibenzo(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	1.3	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SS86-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-11JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 13 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.6	J
91-57-6	2-Methylnaphthalene	1.2	J
208-96-8	Acenaphthylene	9.5	U
83-32-9	Acenaphthene	9.5	U
86-73-7	Fluorene	9.5	U
85-01-8	Phenanthrene	1.7	J
120-12-7	Anthracene	9.5	U
206-44-0	Fluoranthene	3.7	J
129-00-0	Pyrene	3.0	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	2.1	J
205-99-2	Benzo(b)fluoranthene	2.5	J
207-08-9	Benzo(k)fluoranthene	1.6	J
50-32-8	Benzo(a)pyrene	1.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.2	J
53-70-3	Dibenzo(a,h)anthracene	9.5	U
191-24-2	Benzo(g,h,i)perylene	1.1	J

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBPLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-BS1JC66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	9.3	
208-96-8	Acenaphthylene	10	
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	8.6	
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	11	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	14	
218-01-9	Chrysene	13	
205-99-2	Benzo(b)fluoranthene	13	
207-08-9	Benzo(k)fluoranthene	13	
50-32-8	Benzo(a)pyrene	11	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenzo(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	9.7	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBPLCSD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-BSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-BSD1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	
91-57-6	2-Methylnaphthalene	12	
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	13	
86-73-7	Fluorene	12	
85-01-8	Phenanthrene	15	
120-12-7	Anthracene	13	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	16	
218-01-9	Chrysene	16	
205-99-2	Benzo(b)fluoranthene	16	
207-08-9	Benzo(k)fluoranthene	16	
50-32-8	Benzo(a)pyrene	14	
193-39-5	Indeno(1,2,3-cd)pyrene	15	
53-70-3	Dibenzo(a,h)anthracene	15	
191-24-2	Benzo(g,h,i)perylene	14	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SCDLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052404-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0052404-BS1JC66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	9.8	
208-96-8	Acenaphthylene	9.7	
83-32-9	Acenaphthene	9.2	
86-73-7	Fluorene	9.1	
85-01-8	Phenanthrene	10	
120-12-7	Anthracene	12	
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	13	
218-01-9	Chrysene	13	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	14	
50-32-8	Benzo(a)pyrene	12	
193-39-5	Indeno(1,2,3-cd)pyrene	13	
53-70-3	Dibenzo(a,h)anthracene	12	
191-24-2	Benzo(g,h,i)perylene	12	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SCDLCSD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052404-BSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0052404-BSD1JC66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	11	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	9.9	
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	13	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	13	
218-01-9	Chrysene	13	
205-99-2	Benzo(b)fluoranthene	10	
207-08-9	Benzo(k)fluoranthene	14	
50-32-8	Benzo(a)pyrene	11	
193-39-5	Indeno(1,2,3-cd)pyrene	12	
53-70-3	Dibenzo(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	11	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB85-1.5-2.5MS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-MS1JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted: 05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	14	
91-57-6	2-Methylnaphthalene	13	
208-96-8	Acenaphthylene	15	
83-32-9	Acenaphthene	16	
86-73-7	Fluorene	9.9	J
85-01-8	Phenanthrene	18	
120-12-7	Anthracene	18	
206-44-0	Fluoranthene	19	
129-00-0	Pyrene	18	
56-55-3	Benzo(a)anthracene	20	
218-01-9	Chrysene	18	
205-99-2	Benzo(b)fluoranthene	19	
207-08-9	Benzo(k)fluoranthene	20	
50-32-8	Benzo(a)pyrene	17	
193-39-5	Indeno(1,2,3-cd)pyrene	14	
53-70-3	Dibenzo(a,h)anthracene	13	
191-24-2	Benzo(g,h,i)perylene	12	

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB85-1.5-2.5MSD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-MSD1JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	
91-57-6	2-Methylnaphthalene	14	
208-96-8	Acenaphthylene	15	
83-32-9	Acenaphthene	15	
86-73-7	Fluorene	16	
85-01-8	Phenanthrene	18	
120-12-7	Anthracene	18	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	20	
218-01-9	Chrysene	18	
205-99-2	Benzo(b)fluoranthene	19	
207-08-9	Benzo(k)fluoranthene	17	
50-32-8	Benzo(a)pyrene	16	
193-39-5	Indeno(1,2,3-cd)pyrene	15	
53-70-3	Dibenzo(a,h)anthracene	14	
191-24-2	Benzo(g,h,i)perylene	13	

C. Form II

Surrogate spike analysis

- By level (low, medium) -

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBPLCSD	73	56	78						0
02	SBLKBP	68	70	85						0
03	SBPLCS	57	56	72						0
04	SB85-1.5-2.5MS	75	70	93						0
05	SB78-3.5-4.5	76	73	98						0
06	SS77-0-1	60	70	88						0
07	SB77-3.5-4.5	69	64	90						0
08	SS79-0-1	72	67	99						0
09	SB79-11-12	73	64	91						0
10	SS83-0-1	68	72	87						0
11	SB85-1.5-2.5MSD	64	58	68						0
12	SB85-1.5-2.5	64	58	67						0
13	SS77-0-1RE	59	59	77						0
14	SB77-3.5-4.5RE	68	55	79						0
15	SB79-11-12RE	73	57	73						0
16	SS83-0-1RE	70	62	83						0
17	SS84-0-1	71	61	89						0
18	SB83-6.5-7.5	60	54	97						0
19	SS62-0-1	90	72	92						0
20	SS74-0-1	52	50	102						0
21	SS86-0-1	58	52	91						0
22	SS84-0-1RE	63	59	96						0
23	SB84-6-7	52	47	95						0
24	SB86-3-4	49	36*	114						1
25	SBLKCD	66	45	70						0
26	SS81-0-1	98	80	144*						1
27	SCDLCS	64	41*	71						1
28	SCDLCSD	69	45	72						0

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Level:(low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SB81-5-6	61	42*	76						1
02	SS71-0-1	65	44*	80						1
03	SS71D-0-1	54	38*	60						1
04	SB71-4-5	66	44*	70						1
05	SB71D-4-5	70	47	73						0
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

D. Form III

Matrix Spike/Matrix Spike Duplicate results
- By level (low, medium) -
Laboratory Control Sample(s)

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - Sample No.: SB85-1.5-2.5 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	20.08	1.114	13.6	62	40-110
2-Methylnaphthalene	20.08	0	12.82	64	45-105
Acenaphthylene	20.08	0	15.46	77	50-105
Acenaphthene	20.08	0	15.56	77	45-110
Fluorene	20.08	0	9.929	49*	50-110
Phenanthrene	20.08	0	18.4	92	50-115
Anthracene	20.08	0	18.11	90	55-110
Fluoranthene	20.08	0	18.6	93	55-115
Pyrene	20.08	0	18.24	91	50-130
Benzo(a)anthracene	20.08	0	19.67	98	45-120
Chrysene	20.08	0	18.19	91	55-110
Benzo(b)fluoranthene	20.08	0	18.82	94	45-120
Benzo(k)fluoranthene	20.08	0	20.42	102	45-125
Benzo(a)pyrene	20.08	0	17.25	86	55-110
Indeno(1,2,3-cd)pyrene	20.08	0	14.22	71	45-125
Dibenzo(a,h)anthracene	20.08	0	13.4	67	40-125
Benzo(g,h,i)perylene	20.08	0	12.46	62	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - Sample No.: SB85-1.5-2.5 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	20.08	13.19	60	3	30	40-105
2-Methylnaphthalene	20.08	13.87	69	8	30	45-105
Acenaphthylene	20.08	15.06	75	3	30	50-105
Acenaphthene	20.08	14.71	73	6	30	45-110
Fluorene	20.08	15.57	78	44*	30	50-110
Phenanthrene	20.08	17.65	88	4	30	50-110
Anthracene	20.08	17.54	87	3	30	55-105
Fluoranthene	20.08	13.23	66	34*	30	55-115
Pyrene	20.08	13.15	65	32*	30	45-125
Benzo(a)anthracene	20.08	19.53	97	1	30	50-110
Chrysene	20.08	18.47	92	2	30	55-110
Benzo(b)fluoranthene	20.08	19.21	96	2	30	45-115
Benzo(k)fluoranthene	20.08	16.65	83	20	30	45-125
Benzo(a)pyrene	20.08	16.25	81	6	30	50-110
Indeno(1,2,3-cd)pyrene	20.08	15.06	75	6	30	40-125
Dibenzo(a,h)anthracene	20.08	14.34	71	7	30	40-125
Benzo(g,h,i)perylene	20.08	12.92	64	4	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 3 out of 17 outside limits
Spike Recovery: 1 out of 34 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: COMPUCHEM Method: 8270C-SIM | SBPLCS |

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SBPLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67		10.24	61	40-110
2-Methylnaphthalene	16.67		9.289	56	45-105
Acenaphthylene	16.67		10.23	61	50-105
Acenaphthene	16.67		10.44	63	45-110
Fluorene	16.67		8.554	51	50-110
Phenanthrene	16.67		11.69	70	50-115
Anthracene	16.67		11.02	66	55-110
Fluoranthene	16.67		10.75	64	55-115
Pyrene	16.67		10.95	66	50-130
Benzo(a)anthracene	16.67		13.76	83	45-120
Chrysene	16.67		12.87	77	55-110
Benzo(b)fluoranthene	16.67		13.44	81	45-120
Benzo(k)fluoranthene	16.67		12.7	76	45-125
Benzo(a)pyrene	16.67		11.38	68	55-110
Indeno(1,2,3-cd)pyrene	16.67		10.78	65	45-125
Dibenzo(a,h)anthracene	16.67		10.59	64	40-125
Benzo(g,h,i)perylene	16.67		9.696	58	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

3D

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SBPLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SBPLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	16.67	13.41	80	27	30	40-105
2-Methylnaphthalene	16.67	12.25	73	26	30	45-105
Acenaphthylene	16.67	12.09	73	18	30	50-105
Acenaphthene	16.67	12.95	78	21	30	45-110
Fluorene	16.67	11.73	70	31*	30	50-110
Phenanthrene	16.67	14.82	89	24	30	50-110
Anthracene	16.67	13.33	80	19	30	55-105
Fluoranthene	16.67	11.27	68	6	30	55-115
Pyrene	16.67	11.56	69	4	30	45-125
Benzo(a)anthracene	16.67	16.25	97	16	30	50-110
Chrysene	16.67	16.46	99	25	30	55-110
Benzo(b)fluoranthene	16.67	15.74	94	15	30	45-115
Benzo(k)fluoranthene	16.67	15.61	94	21	30	45-125
Benzo(a)pyrene	16.67	13.93	84	21	30	50-110
Indeno(1,2,3-cd)pyrene	16.67	14.87	89	31*	30	40-125
Dibenzo(a,h)anthracene	16.67	14.81	89	33*	30	40-125
Benzo(g,h,i)perylene	16.67	14.41	86	39*	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 4 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SCDLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SCDLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67		10.62	64	40-105
2-Methylnaphthalene	16.67		9.815	59	45-105
Acenaphthylene	16.67		9.688	58	50-105
Acenaphthene	16.67		9.167	55	45-110
Fluorene	16.67		9.065	54	50-110
Phenanthrene	16.67		10.18	61	50-110
Anthracene	16.67		11.91	71	55-105
Fluoranthene	16.67		12.41	74	55-115
Pyrene	16.67		11.62	70	45-125
Benzo(a)anthracene	16.67		12.83	77	50-110
Chrysene	16.67		12.63	76	55-110
Benzo(b)fluoranthene	16.67		10.62	64	45-115
Benzo(k)fluoranthene	16.67		13.91	83	45-125
Benzo(a)pyrene	16.67		11.63	70	50-110
Indeno(1,2,3-cd)pyrene	16.67		13.46	81	40-125
Dibenzo(a,h)anthracene	16.67		12.31	74	40-125
Benzo(g,h,i)perylene	16.67		11.78	71	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

3D

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SCDLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SCDLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	16.67	11.1	67	5	30	40-105
2-Methylnaphthalene	16.67	11.05	66	11	30	45-105
Acenaphthylene	16.67	10.72	64	10	30	50-105
Acenaphthene	16.67	10.06	60	9	30	45-110
Fluorene	16.67	9.894	59	9	30	50-110
Phenanthrene	16.67	11.11	67	9	30	50-110
Anthracene	16.67	12.56	75	5	30	55-105
Fluoranthene	16.67	13.06	78	5	30	55-115
Pyrene	16.67	12.49	75	7	30	45-125
Benzo(a)anthracene	16.67	13.27	80	4	30	50-110
Chrysene	16.67	12.76	77	1	30	55-110
Benzo(b)fluoranthene	16.67	10.16	61	5	30	45-115
Benzo(k)fluoranthene	16.67	13.63	82	1	30	45-125
Benzo(a)pyrene	16.67	11.27	68	3	30	50-110
Indeno(1,2,3-cd)pyrene	16.67	12.39	74	9	30	40-125
Dibenzo(a,h)anthracene	16.67	11.37	68	8	30	40-125
Benzo(g,h,i)perylene	16.67	11	66	7	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

E. Form IV

Method Blank Results
Form IV and Form I

Method blank summary, OADS
- In chronological order of analysis

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKBP

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID: 0051920-BLK1JC66 Lab Sample ID: 0051920-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/20/10

Matrix: (soil/water) SOIL Date Analyzed: 05/26/10

Level:(low/med) LOW Time Analyzed: 0647

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBPLCSD	0051920-BSD1	0051920-BSD1	05/26/10
02	SBPLCS	0051920-BS1	0051920-BS1J	05/26/10
03	SB85-1.5-2.5MS	0051920-MS1	0051920-MS1J	05/26/10
04	SB78-3.5-4.5	1005132-02	1005132-02C6	05/26/10
05	SS77-0-1	1005132-03	1005132-03C6	05/26/10
06	SB77-3.5-4.5	1005132-04	1005132-04C6	05/26/10
07	SS79-0-1	1005132-05	1005132-05C6	05/26/10
08	SB79-11-12	1005132-06	1005132-06C6	05/26/10
09	SS83-0-1	1005132-07	1005132-07C6	05/26/10
10	SB85-1.5-2.5MSD	0051920-MSD1	0051920-MSD1	05/26/10
11	SB85-1.5-2.5	1005132-01	1005132-01JA	05/26/10
12	SS77-0-1RE	1005132-03	1005132-03JA	05/26/10
13	SB77-3.5-4.5RE	1005132-04	1005132-04JA	05/26/10
14	SB79-11-12RE	1005132-06	1005132-06JA	05/26/10
15	SS83-0-1RE	1005132-07	1005132-07JA	05/27/10
16	SS84-0-1	1005132-13	1005132-13A6	05/27/10
17	SB83-6.5-7.5	1005132-08	1005132-08J2	05/27/10
18	SS62-0-1	1005132-09	1005132-09JC	05/27/10
19	SS74-0-1	1005132-10	1005132-10JC	05/27/10
20	SS86-0-1	1005132-11	1005132-11JC	05/27/10
21	SS84-0-1RE	1005132-13	1005132-13JC	05/27/10
22	SB84-6-7	1005132-14	1005132-14J2	05/27/10
23	SB86-3-4	1005132-12	1005132-12J2	05/27/10
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SBLKBP

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-BLK1JC66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.84	J
91-57-6	2-Methylnaphthalene	8.3	U
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	8.3	U
86-73-7	Fluorene	8.3	U
85-01-8	Phenanthrene	8.3	U
120-12-7	Anthracene	8.3	U
206-44-0	Fluoranthene	8.3	U
129-00-0	Pyrene	8.3	U
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenzo(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKCD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID: 0052404-BLK1A66 Lab Sample ID: 0052404-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/24/10

Matrix: (soil/water) SOIL Date Analyzed: 06/01/10

Level:(low/med) LOW Time Analyzed: 1403

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SS81-0-1	1005132-15	1005132-15A6	06/01/10
02	SCDLCS	0052404-BS1	0052404-BS1J	06/02/10
03	SCDLCSD	0052404-BSD1	0052404-BSD1	06/02/10
04	SB81-5-6	1005132-16	1005132-16JC	06/02/10
05	SS71-0-1	1005132-17	1005132-17JC	06/02/10
06	SS71D-0-1	1005132-18	1005132-18JC	06/02/10
07	SB71-4-5	1005132-19	1005132-19JC	06/02/10
08	SB71D-4-5	1005132-20	1005132-20JC	06/02/10
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SBLKCD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052404-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0052404-BLK1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/01/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.79	J
91-57-6	2-Methylnaphthalene	8.3	U
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	8.3	U
86-73-7	Fluorene	8.3	U
85-01-8	Phenanthrene	8.3	U
120-12-7	Anthracene	8.3	U
206-44-0	Fluoranthene	8.3	U
129-00-0	Pyrene	8.3	U
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenzo(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

F. Form VIII

Internal standard area and retention time data

(VOA and SV only)

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E25012-CCV1A66 Date Analyzed: 05/25/10

Instrument ID: 5972HP66 Time Analyzed: 1842

		IS1(CRY)		IS2(PRY)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	85416	19.33	76342	21.95	32289	5.55
	UPPER LIMIT	170832	19.83	152684	22.45	64578	6.05
	LOWER LIMIT	42708	18.83	38171	21.45	16145	5.05
	CLIENT SAMPLE NO.						
01	SBPLCSD	137416	19.32	131639	21.95	28030	5.56
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E25012-CCV1A66 Date Analyzed: 05/25/10

Instrument ID: 5972HP66 Time Analyzed: 1842

		IS4(NPT)		IS5(ANT)		IS6(PHN)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	112116	7.80	52762	11.22	93685	14.09
	UPPER LIMIT	224232	8.30	105524	11.72	187370	14.59
	LOWER LIMIT	56058	7.30	26381	10.72	46843	13.59
	CLIENT SAMPLE NO.						
01	SBPLCSD	100906	7.80	46346	11.22	86084	14.09
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E26002-CCV1C66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 0611

		IS1(CRY) AREA	#	RT	#	IS2(PRY) AREA	#	RT	#	IS3(DCB) AREA	#	RT	#
	12 HOUR STD	157952		19.34		126573		21.96		41032		5.56	
	UPPER LIMIT	315904		19.84		253146		22.46		82064		6.06	
	LOWER LIMIT	78976		18.84		63287		21.46		20516		5.06	
	CLIENT SAMPLE NO.												
01	SBLKBP	179070		19.34		144331		21.96		45579		5.57	
02	SBPLCS	140645		19.34		109682		21.96		27317		5.56	
03	SB85-1.5-2.5MS	185672		19.34		127260		21.96		28525		5.57	
04	SB78-3.5-4.5	217450		19.34		174813		21.96		78036		5.57	
05	SS77-0-1	243496		19.34		190956		21.96		100402	*	5.58	
06	SB77-3.5-4.5	254224		19.34		200267		21.96		103963	*	5.58	
07	SS79-0-1	204654		19.34		129396		21.96		44721		5.57	
08	SB79-11-12	244407		19.34		181962		21.97		93334	*	5.58	
09	SS83-0-1	220602		19.34		151817		21.97		102359	*	5.58	
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E26002-CCV1C66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 0611

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	146916	7.80	68609	11.23	134040	14.10
	UPPER LIMIT	293832	8.30	137218	11.73	268080	14.60
	LOWER LIMIT	73458	7.30	34305	10.73	67020	13.60
	CLIENT SAMPLE NO.						
01	SBLKBP	161749	7.81	74966	11.23	141759	14.10
02	SBPLCS	94276	7.80	45876	11.23	96377	14.10
03	SB85-1.5-2.5MS	94599	7.81	47756	11.23	140369	14.10
04	SB78-3.5-4.5	274861	7.81	120571	11.23	225769	14.10
05	SS77-0-1	348711*	7.81	152503*	11.23	262039	14.10
06	SB77-3.5-4.5	364264*	7.81	153322*	11.23	275761*	14.10
07	SS79-0-1	155536	7.82	78023	11.23	195179	14.10
08	SB79-11-12	328636*	7.82	148454*	11.23	265338	14.10
09	SS83-0-1	342054*	7.81	144888*	11.23	248607	14.10
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E26007-CCV1A66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 1759

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	48108	19.34	42285	21.97	32686	5.56
	UPPER LIMIT	96216	19.84	84570	22.47	65372	6.06
	LOWER LIMIT	24054	18.84	21143	21.47	16343	5.06
	CLIENT SAMPLE NO.						
01	SB85-1.5-2.5MSD	69271	19.34	64943	21.97	26595	5.57
02	SB85-1.5-2.5	87642	19.35	77749	21.97	32048	5.57
03	SS77-0-1RE	119685*	19.34	88100*	21.97	25621	5.57
04	SB77-3.5-4.5RE	143081*	19.34	109918*	21.97	23581	5.57
05	SB79-11-12RE	153253*	19.34	112991*	21.97	32408	5.56
06	SS83-0-1RE	127666*	19.35	74610	21.97	19683	5.57
07	SS84-0-1	115084*	19.35	103481*	21.98	55405	5.59
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E26007-CCV1A66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 1759

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	95578	7.81	43073	11.23	64008	14.10
	UPPER LIMIT	191156	8.31	86146	11.73	128016	14.60
	LOWER LIMIT	47789	7.31	21537	10.73	32004	13.60
	CLIENT SAMPLE NO.						
01	SB85-1.5-2.5MSD	68707	7.82	29920	11.23	48309	14.11
02	SB85-1.5-2.5	85762	7.81	37728	11.23	59389	14.11
03	SS77-0-1RE	72806	7.81	35160	11.23	67271	14.11
04	SB77-3.5-4.5RE	72114	7.82	37816	11.23	88891	14.11
05	SB79-11-12RE	95813	7.81	45579	11.23	87329	14.10
06	SS83-0-1RE	52118	7.81	26805	11.23	80906	14.11
07	SS84-0-1	145992	7.82	69201	11.24	134582*	14.11
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E27003-CCV1C66 Date Analyzed: 05/27/10

Instrument ID: 5972HP66 Time Analyzed: 0600

		IS1(CRY)		IS2(PRY)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	166666	19.35	125008	21.98	53349	5.57
	UPPER LIMIT	333332	19.85	250016	22.48	106698	6.07
	LOWER LIMIT	83333	18.85	62504	21.48	26675	5.07
	CLIENT SAMPLE NO.						
01	SB83-6.5-7.5	113531	19.36	88371	21.99	66279	5.58
02	SS62-0-1	134394	19.38	84930	22.01	49850	5.57
03	SS74-0-1	138998	19.37	106917	22.00	61407	5.58
04	SS86-0-1	167848	19.37	133257	22.00	56423	5.59
05	SS84-0-1RE	231168	19.37	180139	22.01	97208	5.59
06	SB84-6-7	229321	19.37	186902	22.01	87242	5.59
07	SB86-3-4	88778	19.37	65592	22.01	32341	5.57
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E27003-CCV1C66 Date Analyzed: 05/27/10

Instrument ID: 5972HP66 Time Analyzed: 0600

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	181579	7.81	104824	11.24	233418	14.11
	UPPER LIMIT	363158	8.31	209648	11.74	466836	14.61
	LOWER LIMIT	90789	7.31	52412	10.74	116709	13.61
	CLIENT SAMPLE NO.						
01	SB83-6.5-7.5	205329	7.83	89007	11.24	178187	14.13
02	SS62-0-1	215130	7.81	117726	11.24	254445	14.13
03	SS74-0-1	226235	7.83	117487	11.24	234269	14.13
04	SS86-0-1	245319	7.83	137802	11.24	284131	14.13
05	SS84-0-1RE	381791*	7.83	181881	11.24	357510	14.13
06	SB84-6-7	342594	7.83	169913	11.24	334514	14.13
07	SB86-3-4	145826	7.83	95298	11.26	207822	14.13
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0F01008-CCV1A66 Date Analyzed: 06/01/10

Instrument ID: 5972HP66 Time Analyzed: 1329

		IS1(CRY)		IS2(PRY)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	245547	19.33	214161	21.96	103604	5.53
	UPPER LIMIT	491094	19.83	428322	22.46	207208	6.03
	LOWER LIMIT	122773	18.83	107081	21.46	51802	5.03
	CLIENT SAMPLE NO.						
01	SBLKCD	146327	19.33	124833	21.96	69559	5.54
02	SS81-0-1	160407	19.34	125833	21.97	114031	5.55
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0F01008-CCV1A66 Date Analyzed: 06/01/10

Instrument ID: 5972HP66 Time Analyzed: 1329

		IS4(NPT) AREA #	IS4(NPT) RT #	IS5(ANT) AREA #	IS5(ANT) RT #	IS6(PHN) AREA #	IS6(PHN) RT #
	12 HOUR STD	383434	7.77	162715	11.19	275979	14.07
	UPPER LIMIT	766868	8.27	325430	11.69	551958	14.57
	LOWER LIMIT	191717	7.27	81357	10.69	137989	13.57
	CLIENT SAMPLE NO.						
01	SBLKCD	243258	7.79	104418	11.19	180808	14.07
02	SS81-0-1	410174	7.78	167821	11.19	247911	14.08
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0F02003-CCV1C66 Date Analyzed: 06/02/10

Instrument ID: 5972HP66 Time Analyzed: 0027

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	134828	19.35	113722	21.99	52288	5.53
	UPPER LIMIT	269656	19.85	227444	22.49	104576	6.03
	LOWER LIMIT	67414	18.85	56861	21.49	26144	5.03
	CLIENT SAMPLE NO.						
01	SCDLCS	124412	19.34	109233	21.99	50812	5.54
02	SCDLCSD	174484	19.35	157074	21.99	73635	5.54
03	SB81-5-6	125453	19.35	112790	21.99	61800	5.56
04	SS71-0-1	116668	19.35	105615	21.99	49969	5.55
05	SS71D-0-1	120691	19.35	102556	21.99	48713	5.55
06	SB71-4-5	97992	19.35	80345	21.99	55301	5.56
07	SB71D-4-5	123815	19.35	104746	21.99	51317	5.56
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0F02003-CCV1C66 Date Analyzed: 06/02/10

Instrument ID: 5972HP66 Time Analyzed: 0027

		IS4 (NPT) AREA #	IS4 (NPT) RT #	IS5 (ANT) AREA #	IS5 (ANT) RT #	IS6 (PHN) AREA #	IS6 (PHN) RT #
	12 HOUR STD	154045	7.79	85436	11.20	152743	14.10
	UPPER LIMIT	308090	8.29	170872	11.70	305486	14.60
	LOWER LIMIT	77023	7.29	42718	10.70	76371	13.60
	CLIENT SAMPLE NO.						
01	SCDLCS	153614	7.79	80343	11.20	145139	14.10
02	SCDLCSD	241006	7.79	117641	11.20	212603	14.09
03	SB81-5-6	210014	7.79	95234	11.22	165888	14.10
04	SS71-0-1	173863	7.79	80938	11.22	134055	14.10
05	SS71D-0-1	169775	7.79	77215	11.22	131026	14.10
06	SB71-4-5	174007	7.79	74457	11.22	123868	14.10
07	SB71D-4-5	175852	7.79	81890	11.22	145447	14.10
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC/MS by SW-846

Modified For Selected Ion Monitoring (SIM)

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

LAB CODE : LIBRTY

METHOD: 8270C

SDG # : 1005132

A. SDG Narrative

CompuChem
A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1005132
PROTOCOL: SW-846

SAMPLE IDENTIFICATIONS: SB71-4-5, SB71D-4-5, SB77-3.5-4.5, SB78-3.5-4.5, SB79-11-12, SB81-5-6, SB83-6.5-7.5, SB84-6-7, SB85-1.5-2.5, SB86-3-4, SS62-0-1, SS71-0-1, SS71D-0-1, SS74-0-1, SS77-0-1, SS79-0-1, SS81-0-1, SS83-0-1, SS84-0-1, SS86-0-1.

The nineteen soil samples listed above were received intact, properly refrigerated between 0.7-4.3°C, with proper documentation, in sealed shipping containers, on May 14-21, 2010. The samples were scheduled for the requested analyses of the semivolatile fraction. SW-846, 3rd Edition, Update 3, Sonication extraction (Method 3550B), Method 8270C and Selected Ion Monitoring (SIM) were used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance Notices are included in the narrative section and all pertinent Laboratory Notices for SDG # 1005132 are included in the sample data sections. The percent moisture values of these soil samples ranged from 3-69. Extraction and analysis holding time requirements were met for all of these samples.

Fluoranthene and pyrene were identified above the reporting limit in SS77-0-1. Manual quantitations were performed on all of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

In the initial analysis of SB86-3-4, SCDLCS, SB81-5-6, SS71-0-1, SS71D-0-1 and SB71-4-5, the recovery of the surrogate, 2-fluorobiphenyl, failed DoD quality control criteria. The recovery of 2-fluorobiphenyl was within our in house limits. In the initial analysis of SS81-0-1, terphenyl-d14, failed surrogate recovery criteria bias high. There were no target analyte hits above the reporting limit in this sample.

In the initial analysis of SS77-0-1, SB77-3.5-4.5, SB79-11-12, SS83-0-1, SS84-0-1, the response of several internal standards failed quality control criteria. The samples were reinjected and the internal standard again failed response criteria. We have attributed the failing internal standard responses to the particular matrix of the sample. Therefore we have reported both analyses of SS77-0-1, SB77-3.5-4.5, SB79-11-12, SS83-0-1, SS84-0-1.

Mass assignments were verified by the injections of perfluorotributylamine (PFTBA). All of the surrogates, not previously discussed, met recovery criteria in these samples. All of the internal standards in samples, not previously discussed, met response and retention time criteria. The associated method blanks met all quality control criteria. The associated Laboratory Control Samples (LCSs) and Laboratory Control Sample Duplicates (LCSDs) met overall precision criteria. SB85-1.5-2.5 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met overall advisory accuracy and precision criteria.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Rebecca K Mead

Rebecca K. Mead, Ph.D.
Laboratory Director
June 24, 2010

GC and GC/MS Column and Trap Specifications Table

SDG #:	

COLUMNS*

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
√	Restek	clpest	0.32	0.5	30
√	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
√	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS*

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semi-volatiles, pesticides, and Aroclors by the SOM01.2 SOW. Please see the SDG Narratives(s) for the specific fraction(s) relative to this SDG.

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.).

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the Form I, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches $\geq$ 85% in the SOM01.2 SOW document), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the higher of the two values is reported and flagged with a P. When the RPD is equal to or less than 40%, our policy is to also report the higher of the two values, although the choice could be a project specific issue. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on Form I for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the Form I for the more diluted sample, and **all** reported concentrations on that Form I are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate Forms I are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single Form I.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chains-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

24772

Page 1 of 1

78

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekka Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDH

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis and Method / **Matrix**

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab Use Only Sample ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B)	Total Chromium (6010B)	Chromium VI (7196A)	8270C PAH's	TCL Pest (8081A)	Grainsize (ASTM D422) 8oz		Grain size	
1005129-17	BBG-SB85-0-1-10B	5-13-10	0740	SO	3							X		X	X	X	X		1005209-13	
1005132-01	BBG-SB85-1.5-2.5-10B	5-13-10	0745	SO	3							X		X	X	X	X			-14
	BBG-SB85-1.5-2.5-10B-MS*	5-13-10	0745	SO	2							X		X	X	X	X(2)		no grainsize on MS/MSD	
	BBG-SB85-1.5-2.5-10B-SD*	5-13-10	0745	SO	2							X		X	X	X	X(2)			
1005129-18	BBG-SB89-0-1-10B	5-13-10	0825	SO	3							X		X	X	X	X		1005209-15	
-19	BBG-SB89-6.5-7.5-10B	5-13-10	0845	SO	3							X		X	X	X	X			-16
-20	BBG-SB78-0-1-10B	5-13-10	0930	SO	3							X		X	X	X	X			-17
1005132-02	BBG-SB78-3.5-4.5-10B	5-13-10	1040	SO	3							X		X	X	X	X			-18

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or NA
625 & Phenol samples checked for chlorine? Y or NA
608 samples checked for pH between 5.0-9.0? Y or NA

Comments

BBG-SB85-1.5-2.5-10B (MS + SD) Did not receive grainsize jar. DB 5/14/10

Relinquished by:	Date/Time: 5-13-10 1330	Received by: Diane Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24776

79

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDM

Project Information

Project Name: GD-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Requested Analysis and Container Information

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem Lab No.	Field ID	Collection Date	Collection Time	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2oz	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 4oz	TCL Pest (8081A)	Grain Size (ASTM D422) 8oz	Grain size	
1005132-03	BBG-SB77-0-1-10B	5-13-10	1205	SO	3							X		X	X	X	X	1005209-19	
-04	BBG-SB77-2.5-3.5-10B	5-13-10	1210	SO	3							X		X	X	X	X	container has BBG-SB77-3.5-4.5	
1005130-18	BBG-SS08-0-1-10B	5-13-10	1240	SO	3								X	X	X	X	X	1005210-02	
-19	BBG-SB08-6-7-10B	5-13-10	1300	SO	3								X	X	X	X	X		-03
1005132-05	BBG-SS79-0-1-10B	5-13-10	1510	SO	3							X	X	X	X	X	X		-04
-06	BBG-SB79-11-12-10B	5-13-10	1530	SO	3							X	X	X	X	X	X	✓	-05

In House Only

Sample Unpacked By: Jennifer Bowes
Sample Order Entry By: Jennifer Bowes
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diane Byrd	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain Size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice (Y) or N
Cooler Temp: 3.8 °C

JD 5/14/10 client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24775

80

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis and Container/Preservation Type

CompuChem Use Only	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 20	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 8	TCL Pest (8081A) 8	Grain Size (ASTM D422) 8		Grain size	
1005132-07	BBG-SB83-0-1-10B	5-13-10	1555	SO	3							X		X	X	X	X		1005210-06	
-08	BBG-SB83-6.5-7.5-10B	5-13-10	1605	SO	3							X		X	X	X	X			-07
-09	BBG-SB62-0-1-10B	5-13-10	1640	SO	3							X		X	X	X	X			-08
1005130-20	BBG-SB05-0-1-10B	5-14-10	0800	SO	3							[illegible]	X	X	X	X	X			-09
1005134-05	BBG-SB05-7-8-10B	5-14-10	0810	SO	3								X	X	X	X	X			-10

Matrix
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Use Only

Sample Unpacked By: Jennifer Bones
Sample Order Entry By: [illegible]
Samples Received in Good Condition: (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Sample Transfer

Relinquished by: [signature]	Date/Time: 5-14-10 1600	Received by: Diana Byrd	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or (N) If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 3.6 °C

Samples stored 60 days after date report mailed at no extra charge.

client delivered

White & Yellow copy to lab • Pink copy for customer

24779

Page 1 of 1

81

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St. 101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time:
Project Contact: Rebekka Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K.Rogers / RDM	Are high concentrations expected? Y or (N) If yes, which ID(s)?

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Compuchem Sample ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2	Total Chromium (6010B)	TCL Pest (8081A) 8	SIM PAH's (8270C) 8	Grain Size (ASTM D422) 8	Chromium VI (7196A)		Grain size					
100532-10	BBG-SS74-0-1-10B	5-14-10	1015	SO	3							X		X	X	X	X		100521011					
-11	BBG-SS86-0-1-10B	5-14-10	1105	SO	3							X		X	X	X	X			-12				
-12	BBG-SS86-3-4-10B	5-14-10	1115	SO	3							X		X	X	X	X			-13				
																	\							

Lab Use Only

Sample Unpacked By: Jennifer Dorn
Sample Order Entry By: Jennifer Dorn
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Relinquished by:	Date/Time: 5.14.10 1600	Received by: Jennifer Dorn	Date/Time: 5/14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 3.2 °C

Samples stored 60 days after date report mailed at no extra charge.

client delivered

White & Yellow copy to lab • Pink copy for customer

24777

82

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDH

Project Information

Project Name: GTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Sample Check-In No. (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 200.7	Total Chromium (6010B)	SIM PAHs (8270C) SIM	TCL Pest (8081A)	Grain Size (ASTM D422) 8C	Chromium VI (7196A)	Grain Size	
1005132-01	BBG-SS73-0-1-10B	5-14-10	0825	SO	3							X		X	X	X	X	1005209-14	
	BBG-SS73-0-1-10B-MS	5-14-10	0825	SO	3							X		X	X	X	X	—	
	BBG-SS73-0-1-10B-SD	5-14-10	0825	SO	3							X		X	X	X	X	—	
1005132-13	BBG-SS84-0-1-10B	5-14-10	0855	SO	3							X		X	X	X	X	1005209-15	
-14	BBG-SB84-6-7-10B	5-14-10	0905	SO	3							X		X	X	X	X	-16	
1005134-01	BBG-SS02-0-1-10B	5-14-10	0930	SO	3								X	X	X	X	X	-17	
-02	BBG-SS02D-0-1-10B	5-14-10	0935	SO	3								X	X	X	(*X)	X	—	
-03	BBG-SB02-5-6-10B	5-14-10	0940	SO	3								X	X	X	X	X	1005209-18	
-04	BBG-SB02D-5-6-10B	5-14-10	0945	SO	3								X	X	X	(*X)	X	—	

Lab Use Only

Sample Unpacked By: Jennifer Dyer
Sample Order Entry By: Jennifer Dyer
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

*did not rec'd Grainsize for BBG-SS02D-01-10B or BBG-SB02D-5-6-10B not needed as "dups" FID 5/14/10 or MS/MSD Date 5/14/10

Sample Custody

Relinquished by: K Rogers	Date/Time: 5-14-10 1600	Received by: Diane Bond	Date/Time: 5-14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Subcontact? Y or N If yes, where? Grain size to CT LABS	Custody Seal(s) intact? Y or N (3D) 5/14/10 Client delivered	On Ice? (Y) or N	Cooler Temp: 1.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24785

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA BEACH State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers

Project Information

Project Name: CTO 94
Sampling Location: MCB CAMP LEJEUNE
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrix
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Lab Use Only Sample ID	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Metals 6010B (Shaw)	Tot Cr 6010B	Cr VI 7196A (1-20Z.)	SIM PAH 8270C (Shaw)	TCL PEST 8081A (1-80Z.)	Grain Size ASTM D422 (1-80Z.)	Grain Size	Lab Use Only
1005132-15	BBG-SS81-0-1-10B	5.18	1600	SO	3							X		X	X	X	X	1005212-01	
-16	BBG-SS81-5-6-10B	5.18	1620	SO	3							X		X	X	X	X	-02	
1005133-11	BBG-SS67-0-1-10B	5.18	1700	SO	3							X		X	X	X	X	-03	
1005134-14	BBG-SB50-1-2-10B	5.18	1750	SO	3								X	X	X	X	X	-04	
1005132-17	BBG-SS71-0-1-10B	5.19	0735	SO	3							X		X	X	X	X	-05	
-18	BBG-SS71D-0-1-10B	5.19	0740	SO	3							X		X	X	X			
-19	BBG-SB71-4-5-10B	5.19	0755	SO	3							X		X	X	X	X	1005212-06	
-20	BBG-SB71D-4-5-10B	5.19	0800	SO	2							X		X	X	X			
1005133-12	BBG-SS72-0-1-10B	5.19	0835	SO	3							X		X	X	X	X	1005212-07	
-13	BBG-SB72-2-3-10B	5.19	0845	SO	3							X		X	X	X	X	-08	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By: [illegible]
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (N/A)
625 & Phenol samples checked for chlorine? Y or (N/A)
608 samples checked for pH between 5.0-9.0? Y or (N/A)

Relinquished by: [signature]	Date/Time: 5.21.10 1600	Received by: K. Manning	Date/Time: 5.21.10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 4.3 °C

Samples stored 60 days after date report mailed at no extra charge.

Client Delivery - KM 5.21.10

White & Yellow copy to lab • Pink copy for customer

SN0015

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-01	SB85-1.5-2.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB85-1.5-2.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-01	SB85-1.5-2.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB85-1.5-2.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-02	SB78-3.5-4.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB78-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-02	SB78-3.5-4.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB78-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-03	SS77-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS77-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-03	SS77-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS77-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-04	SB77-3.5-4.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB77-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-04	SB77-3.5-4.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB77-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-05	SS79-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS79-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-05	SS79-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS79-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-06	SB79-11-12	05/13/2010	05/14/2010	06/03/2010	BBG-SB79-11-12-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-06	SB79-11-12	05/13/2010	05/14/2010	06/10/2010	BBG-SB79-11-12-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-07	SS83-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS83-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-07	SS83-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS83-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-08	SB83-6.5-7.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB83-6.5-7.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-08	SB83-6.5-7.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB83-6.5-7.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-09	SS62-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS62-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-09	SS62-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS62-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-10	SS74-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS74-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-10	SS74-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS74-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-11	SS86-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS86-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-11	SS86-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS86-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-12	SB86-3-4	05/14/2010	05/14/2010	06/03/2010	BBG-SB86-3-4-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-12	SB86-3-4	05/14/2010	05/14/2010	06/10/2010	BBG-SB86-3-4-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-13	SS84-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS84-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-13	SS84-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS84-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-14	SB84-6-7	05/14/2010	05/14/2010	06/03/2010	BBG-SB84-6-7-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-14	SB84-6-7	05/14/2010	05/14/2010	06/10/2010	BBG-SB84-6-7-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-15	SS81-0-1	05/18/2010	05/21/2010	06/03/2010	BBG-SS81-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-15	SS81-0-1	05/18/2010	05/21/2010	06/10/2010	BBG-SS81-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-16	SB81-5-6	05/18/2010	05/21/2010	06/03/2010	BBG-SB81-5-6-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-16	SB81-5-6	05/18/2010	05/21/2010	06/10/2010	BBG-SB81-5-6-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-17	SS71-0-1	05/19/2010	05/21/2010	06/03/2010	BBG-SS71-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-17	SS71-0-1	05/19/2010	05/21/2010	06/10/2010	BBG-SS71-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-18	SS71D-0-1	05/19/2010	05/21/2010	06/03/2010	BBG-SS71D-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-18	SS71D-0-1	05/19/2010	05/21/2010	06/10/2010	BBG-SS71D-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-19	SB71-4-5	05/19/2010	05/21/2010	06/03/2010	BBG-SB71-4-5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-19	SB71-4-5	05/19/2010	05/21/2010	06/10/2010	BBG-SB71-4-5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-20	SB71D-4-5	05/19/2010	05/21/2010	06/03/2010	BBG-SB71D-4-5-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-20	SB71D-4-5	05/19/2010	05/21/2010	06/10/2010	BBG-SB71D-4-5-10B

WORK ORDER

Printed: 5/28/2010 6:52:16PM

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/10/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/21/2010 16:00

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 22:26

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005132-01 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A*TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005132-01 SB85-1.5-2.5 [Soil] Sampled 05/13/2010 07:45 Eastern					**USE FOR QC**
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 07:45	05/14/2010 09:20	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 07:45	05/14/2010 09:20	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 07:45	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 07:45	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 07:45	05/14/2010 09:20	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 07:45	05/14/2010 09:20	SubList = GC- 8081 DOD
1005132-02 SB78-3.5-4.5 [Soil] Sampled 05/13/2010 10:40 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 10:40	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 10:40	05/14/2010 09:20	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 10:40	05/14/2010 09:20	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 10:40	05/14/2010 09:20	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 10:40	05/14/2010 09:20	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 10:40	05/14/2010 09:20	SubList = GC- 8081 DOD

1005132

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005132 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires	Comments	
1005132-03 SS77-0-1 [Soil] Sampled 05/13/2010 12:05 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 12:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 12:05	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 12:05	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 12:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 12:05	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 12:05	05/14/2010 16:00	SubList = GC- 8081 DOD
1005132-04 SB77-3.5-4.5 [Soil] Sampled 05/13/2010 12:10 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 12:10	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 12:10	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 12:10	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 12:10	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 12:10	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 12:10	05/14/2010 16:00	SubList = SVsim- PAH
1005132-05 SS79-0-1 [Soil] Sampled 05/13/2010 15:10 Eastern					
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:10	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:10	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:10	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:10	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:10	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:10	05/14/2010 16:00	
1005132-06 SB79-11-12 [Soil] Sampled 05/13/2010 15:30 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:30	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:30	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:30	05/14/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:30	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:30	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:30	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005132 **CASE:**	**Status:**	Received

Analysis	Due	TAT	Expires		Comments
1005132-07 SS83-0-1 [Soil] Sampled 05/13/2010 15:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:55	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:55	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:55	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:55	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:55	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:55	05/14/2010 16:00	SubList = SVsim- PAH
1005132-08 SB83-6.5-7.5 [Soil] Sampled 05/13/2010 16:05 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 16:05	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 16:05	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 16:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 16:05	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 16:05	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 16:05	05/14/2010 16:00	SubList = GC- 8081 DOD
1005132-09 SS62-0-1 [Soil] Sampled 05/13/2010 16:40 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 16:40	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 16:40	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 16:40	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 16:40	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 16:40	05/14/2010 16:00	SubList = SVsim- PAH
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 16:40	05/14/2010 16:00	
1005132-10 SS74-0-1 [Soil] Sampled 05/14/2010 10:15 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 10:15	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 10:15	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 10:15	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 10:15	05/14/2010 16:00	SubList = GC- 8081 DOD
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 10:15	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 10:15	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005132 **CASE:**	**Status:**	Prepared

Analysis	Due	TAT	Expires	Comments	
1005132-11 SS86-0-1 [Soil] Sampled 05/14/2010 11:05 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 11:05	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 11:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 11:05	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 11:05	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 11:05	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 11:05	05/14/2010 16:00	SubList = SVsim- PAH
1005132-12 SB86-3-4 [Soil] Sampled 05/14/2010 11:15 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 11:15	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 11:15	05/14/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 11:15	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 11:15	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 11:15	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 11:15	05/14/2010 16:00	
1005132-13 SS84-0-1 [Soil] Sampled 05/14/2010 08:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 08:55	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 08:55	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 08:55	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 08:55	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 08:55	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 08:55	05/14/2010 16:00	
1005132-14 SB84-6-7 [Soil] Sampled 05/14/2010 09:05 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 09:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 09:05	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 09:05	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 09:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 09:05	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 09:05	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005132-15 SS81-0-1 [Soil] Sampled 05/18/2010 16:00 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/14/2010 16:00	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/01/2010 16:00	05/21/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/15/2010 16:00	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/14/2010 16:00	05/21/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/14/2010 16:00	05/21/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/01/2010 16:00	05/21/2010 16:00	SubList = SVsim- PAH
1005132-16 SB81-5-6 [Soil] Sampled 05/18/2010 16:20 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/14/2010 16:20	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/15/2010 16:20	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/14/2010 16:20	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/01/2010 16:20	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/01/2010 16:20	05/21/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/14/2010 16:20	05/21/2010 16:00	
1005132-17 SS71-0-1 [Soil] Sampled 05/19/2010 07:35 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:35	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:35	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:35	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:35	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:35	05/21/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:35	05/21/2010 16:00	
1005132-18 SS71D-0-1 [Soil] Sampled 05/19/2010 07:40 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:40	05/21/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:40	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:40	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:40	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:40	05/21/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:40	05/21/2010 16:00	

1005132

COMPUCHEM

Client:	CH2M HILL, INC.	**Project Manager:**	Cathy Dover
Project:	CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Project Number:**	CTO-094 MCB CAMP LEJEUNE/395307.SA.D
SDG:	1005132 **CASE:**	**Status:**	Batched

Analysis	Due	TAT	Expires		Comments
1005132-19 SB71-4-5 [Soil] Sampled 05/19/2010 07:55 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:55	05/21/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:55	05/21/2010 16:00	SubList = SVsim- PAH
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:55	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:55	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:55	05/21/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:55	05/21/2010 16:00	
1005132-20 SB71D-4-5 [Soil] Sampled 05/19/2010 08:00 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 08:00	05/21/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 08:00	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 08:00	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 08:00	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 08:00	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 08:00	05/21/2010 16:00	SubList = SVsim- PAH

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

DEPT: EXTR **DATE:** 5-20-10

BATCH: 0051920

5-20-1

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0051920-BLK1	SBLKBP		
2	0051920-BS1	SBPLCS		
3	0051920-BSD1	SBPLCSD		
4	0051920-MS1	SB85-1.5-2.5MS		
5	0051920-MS2	SS73-0-1MS		
6	0051920-MSD1	SB85-1.5-2.5MSD		
7	0051920-MSD2	SS73-0-1MSD		
8	1005132-01	SB85-1.5-2.5		
9	1005132-02	SB78-3.5-4.5		
10	1005132-03	SS77-0-1		
11	1005132-04	SB77-3.5-4.5		
12	1005132-05	SS79-0-1		
13	1005132-06	SB79-11-12	pw 6/24/10	
14	1005132-07	SS83-0-1		
15	1005132-08	SB83-6.5-7.5		
16	1005132-09	SS62-0-1		
17	1005132-10	SS74-0-1		
18	1005132-11	SS86-0-1		
19	1005132-12	SB86-3-4		
20	1005132-13	SS84-0-1		
21	1005132-14	SB84-6-7		
22	1005133-01	SS73-0-1		
23	1005134-01	SS02-0-1		
24	1005134-02	SS02D-0-1		
25	1005134-03	SB02-5-6		
26	1005134-04	SB02D-5-6		
27	1005134-05	SB05-7-8		
28				

	RELINQUISHED BY	DATE/TIME		REC. BY	REASON
1	[signature]	5-20-10	1920	GC/MS refridg #3	Storage
2	GC/MS#3	5-25-10	1500	GMS	Analysis
3	GMS	5-25-10	1700	GC/MS#3	Storage
4	GCMS#3	5/26	0500	MW	analysis
5	MW	5/26	0700	GCMS#3	storage
6	GCMS#3	5/27	0500	MW	analysis
7	MW	5/27	0700	GCMS#3	storage

CompuChem, a Division of Liberty Analytical Corp.

EXTRACT COC

DEPT: EXTR 5-24-2 DATE: 5-24-10

BATCH: 0052404

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	PARAMETER	
1	0052404-BLK1	SBLKCD		
2	0052404-BS1	SCDLCS		
3	0052404-BSD1	SCDLCSD		
4	1005132-15	SS81-0-1		
5	1005132-16	SB81-5-6		
6	1005132-17	SS71-0-1		
7	1005132-18	SS71D-0-1		
8	1005132-19	SB71-4-5		
9	1005132-20	SB71D-4-5		
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				

	RELINQUISHED BY	DATE/TIME	REC. BY	REASON
1	MLott	5-24-10 / 6:10pm	GC Ref #3	Storage
2	GCMS#3	6/1 12W	MP	Analysis
3	MP	6/1 16W	GCMS#3	Store
4	GCMS#3	6/2 0030	MW	analysis
5	MW	6/2 0500	GCMS#3	storage
6				

RW 6/24/10

Rev. 7/28/03:dce

C. SDG Data

1. QC Summary
2. Sample Data
3. Standards Data
4. Raw QC Data

LAB CODE : LIBRTY

METHOD: 8270C

SDG # : 1005132

1. QC Summary

a. Surrogate Percent Recovery Summary (Form II SV)

b. Spike Summary - MS / MSD / LCS
(Form III SV)

c. Method Blank Summary (Form IV SV)

d. Internal Standard Area and RT Summary
(Form VIII SV)

a. Surrogate Percent Recovery Summary

(Form II SV)

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Level: (low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SBPLCSD	73	56	78						0
02	SBLKBP	68	70	85						0
03	SBPLCS	57	56	72						0
04	SB85-1.5-2.5MS	75	70	93						0
05	SB78-3.5-4.5	76	73	98						0
06	SS77-0-1	60	70	88						0
07	SB77-3.5-4.5	69	64	90						0
08	SS79-0-1	72	67	99						0
09	SB79-11-12	73	64	91						0
10	SS83-0-1	68	72	87						0
11	SB85-1.5-2.5MSD	64	58	68						0
12	SB85-1.5-2.5	64	58	67						0
13	SS77-0-1RE	59	59	77						0
14	SB77-3.5-4.5RE	68	55	79						0
15	SB79-11-12RE	73	57	73						0
16	SS83-0-1RE	70	62	83						0
17	SS84-0-1	71	61	89						0
18	SB83-6.5-7.5	60	54	97						0
19	SS62-0-1	90	72	92						0
20	SS74-0-1	52	50	102						0
21	SS86-0-1	58	52	91						0
22	SS84-0-1RE	63	59	96						0
23	SB84-6-7	52	47	95						0
24	SB86-3-4	49	36*	114						1
25	SBLKCD	66	45	70						0
26	SS81-0-1	98	80	144*						1
27	SCDLCS	64	41*	71						1
28	SCDLCSD	69	45	72						0

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Level:(low/med) LOW

	CLIENT SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	SB81-5-6	61	42*	76						1
02	SS71-0-1	65	44*	80						1
03	SS71D-0-1	54	38*	60						1
04	SB71-4-5	66	44*	70						1
05	SB71D-4-5	70	47	73						0
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(35-100)
S2 (FBP) = 2-Fluorobiphenyl	(45-105)
S3 (TPH) = Terphenyl-d14	(30-125)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

b. Spike Summary - MS / MSD / LCS
(Form III SV)

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - Sample No.: SB85-1.5-2.5 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Naphthalene	20.08	1.114	13.6	62	40-110
2-Methylnaphthalene	20.08	0	12.82	64	45-105
Acenaphthylene	20.08	0	15.46	77	50-105
Acenaphthene	20.08	0	15.56	77	45-110
Fluorene	20.08	0	9.929	49*	50-110
Phenanthrene	20.08	0	18.4	92	50-115
Anthracene	20.08	0	18.11	90	55-110
Fluoranthene	20.08	0	18.6	93	55-115
Pyrene	20.08	0	18.24	91	50-130
Benzo(a)anthracene	20.08	0	19.67	98	45-120
Chrysene	20.08	0	18.19	91	55-110
Benzo(b)fluoranthene	20.08	0	18.82	94	45-120
Benzo(k)fluoranthene	20.08	0	20.42	102	45-125
Benzo(a)pyrene	20.08	0	17.25	86	55-110
Indeno(1,2,3-cd)pyrene	20.08	0	14.22	71	45-125
Dibenzo(a,h)anthracene	20.08	0	13.4	67	40-125
Benzo(g,h,i)perylene	20.08	0	12.46	62	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM 3
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - Sample No.: SB85-1.5-2.5 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	20.08	13.19	60	3	30	40-105
2-Methylnaphthalene	20.08	13.87	69	8	30	45-105
Acenaphthylene	20.08	15.06	75	3	30	50-105
Acenaphthene	20.08	14.71	73	6	30	45-110
Fluorene	20.08	15.57	78	44*	30	50-110
Phenanthrene	20.08	17.65	88	4	30	50-110
Anthracene	20.08	17.54	87	3	30	55-105
Fluoranthene	20.08	13.23	66	34*	30	55-115
Pyrene	20.08	13.15	65	32*	30	45-125
Benzo(a)anthracene	20.08	19.53	97	1	30	50-110
Chrysene	20.08	18.47	92	2	30	55-110
Benzo(b)fluoranthene	20.08	19.21	96	2	30	45-115
Benzo(k)fluoranthene	20.08	16.65	83	20	30	45-125
Benzo(a)pyrene	20.08	16.25	81	6	30	50-110
Indeno(1,2,3-cd)pyrene	20.08	15.06	75	6	30	40-125
Dibenzo(a,h)anthracene	20.08	14.34	71	7	30	40-125
Benzo(g,h,i)perylene	20.08	12.92	64	4	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 3 out of 17 outside limits
Spike Recovery: 1 out of 34 outside limits

COMMENTS: _____

3D

SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SBPLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SBPLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67		10.24	61	40-110
2-Methylnaphthalene	16.67		9.289	56	45-105
Acenaphthylene	16.67		10.23	61	50-105
Acenaphthene	16.67		10.44	63	45-110
Fluorene	16.67		8.554	51	50-110
Phenanthrene	16.67		11.69	70	50-115
Anthracene	16.67		11.02	66	55-110
Fluoranthene	16.67		10.75	64	55-115
Pyrene	16.67		10.95	66	50-130
Benzo(a)anthracene	16.67		13.76	83	45-120
Chrysene	16.67		12.87	77	55-110
Benzo(b)fluoranthene	16.67		13.44	81	45-120
Benzo(k)fluoranthene	16.67		12.7	76	45-125
Benzo(a)pyrene	16.67		11.38	68	55-110
Indeno(1,2,3-cd)pyrene	16.67		10.78	65	45-125
Dibenzo(a,h)anthracene	16.67		10.59	64	40-125
Benzo(g,h,i)perylene	16.67		9.696	58	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SBPLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SBPLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	16.67	13.41	80	27	30	40-105
2-Methylnaphthalene	16.67	12.25	73	26	30	45-105
Acenaphthylene	16.67	12.09	73	18	30	50-105
Acenaphthene	16.67	12.95	78	21	30	45-110
Fluorene	16.67	11.73	70	31*	30	50-110
Phenanthrene	16.67	14.82	89	24	30	50-110
Anthracene	16.67	13.33	80	19	30	55-105
Fluoranthene	16.67	11.27	68	6	30	55-115
Pyrene	16.67	11.56	69	4	30	45-125
Benzo(a)anthracene	16.67	16.25	97	16	30	50-110
Chrysene	16.67	16.46	99	25	30	55-110
Benzo(b)fluoranthene	16.67	15.74	94	15	30	45-115
Benzo(k)fluoranthene	16.67	15.61	94	21	30	45-125
Benzo(a)pyrene	16.67	13.93	84	21	30	50-110
Indeno(1,2,3-cd)pyrene	16.67	14.87	89	31*	30	40-125
Dibenzo(a,h)anthracene	16.67	14.81	89	33*	30	40-125
Benzo(g,h,i)perylene	16.67	14.41	86	39*	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 4 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SCDLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SCDLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Naphthalene	16.67		10.62	64	40-105
2-Methylnaphthalene	16.67		9.815	59	45-105
Acenaphthylene	16.67		9.688	58	50-105
Acenaphthene	16.67		9.167	55	45-110
Fluorene	16.67		9.065	54	50-110
Phenanthrene	16.67		10.18	61	50-110
Anthracene	16.67		11.91	71	55-105
Fluoranthene	16.67		12.41	74	55-115
Pyrene	16.67		11.62	70	45-125
Benzo(a)anthracene	16.67		12.83	77	50-110
Chrysene	16.67		12.63	76	55-110
Benzo(b)fluoranthene	16.67		10.62	64	45-115
Benzo(k)fluoranthene	16.67		13.91	83	45-125
Benzo(a)pyrene	16.67		11.63	70	50-110
Indeno(1,2,3-cd)pyrene	16.67		13.46	81	40-125
Dibenzo(a,h)anthracene	16.67		12.31	74	40-125
Benzo(g,h,i)perylene	16.67		11.78	71	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

3D
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

SCDLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix Spike - EPA Sample No.: SCDLCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg	LCSD CONCENTRATION (ug/Kg)	LCSD % REC #	% RPD #	QC LIMITS RPD	REC.
Naphthalene	16.67	11.1	67	5	30	40-105
2-Methylnaphthalene	16.67	11.05	66	11	30	45-105
Acenaphthylene	16.67	10.72	64	10	30	50-105
Acenaphthene	16.67	10.06	60	9	30	45-110
Fluorene	16.67	9.894	59	9	30	50-110
Phenanthrene	16.67	11.11	67	9	30	50-110
Anthracene	16.67	12.56	75	5	30	55-105
Fluoranthene	16.67	13.06	78	5	30	55-115
Pyrene	16.67	12.49	75	7	30	45-125
Benzo(a)anthracene	16.67	13.27	80	4	30	50-110
Chrysene	16.67	12.76	77	1	30	55-110
Benzo(b)fluoranthene	16.67	10.16	61	5	30	45-115
Benzo(k)fluoranthene	16.67	13.63	82	1	30	45-125
Benzo(a)pyrene	16.67	11.27	68	3	30	50-110
Indeno(1,2,3-cd)pyrene	16.67	12.39	74	9	30	40-125
Dibenzo(a,h)anthracene	16.67	11.37	68	8	30	40-125
Benzo(g,h,i)perylene	16.67	11	66	7	30	40-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 17 outside limits
Spike Recovery: 0 out of 34 outside limits

COMMENTS: _____

c. Method Blank Summary (Form IV SV)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKBP

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID: 0051920-BLK1JC66 Lab Sample ID: 0051920-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/20/10

Matrix: (soil/water) SOIL Date Analyzed: 05/26/10

Level:(low/med) LOW Time Analyzed: 0647

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SBPLCSD	0051920-BSD1	0051920-BSD1	05/26/10
02	SBPLCS	0051920-BS1	0051920-BS1J	05/26/10
03	SB85-1.5-2.5MS	0051920-MS1	0051920-MS1J	05/26/10
04	SB78-3.5-4.5	1005132-02	1005132-02C6	05/26/10
05	SS77-0-1	1005132-03	1005132-03C6	05/26/10
06	SB77-3.5-4.5	1005132-04	1005132-04C6	05/26/10
07	SS79-0-1	1005132-05	1005132-05C6	05/26/10
08	SB79-11-12	1005132-06	1005132-06C6	05/26/10
09	SS83-0-1	1005132-07	1005132-07C6	05/26/10
10	SB85-1.5-2.5MSD	0051920-MSD1	0051920-MSD1	05/26/10
11	SB85-1.5-2.5	1005132-01	1005132-01JA	05/26/10
12	SS77-0-1RE	1005132-03	1005132-03JA	05/26/10
13	SB77-3.5-4.5RE	1005132-04	1005132-04JA	05/26/10
14	SB79-11-12RE	1005132-06	1005132-06JA	05/26/10
15	SS83-0-1RE	1005132-07	1005132-07JA	05/27/10
16	SS84-0-1	1005132-13	1005132-13A6	05/27/10
17	SB83-6.5-7.5	1005132-08	1005132-08J2	05/27/10
18	SS62-0-1	1005132-09	1005132-09JC	05/27/10
19	SS74-0-1	1005132-10	1005132-10JC	05/27/10
20	SS86-0-1	1005132-11	1005132-11JC	05/27/10
21	SS84-0-1RE	1005132-13	1005132-13JC	05/27/10
22	SB84-6-7	1005132-14	1005132-14J2	05/27/10
23	SB86-3-4	1005132-12	1005132-12J2	05/27/10
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO

SBLKCD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID: 0052404-BLK1A66 Lab Sample ID: 0052404-BLK1

Instrument ID: 5972HP66 Date Extracted: 05/24/10

Matrix: (soil/water) SOIL Date Analyzed: 06/01/10

Level:(low/med) LOW Time Analyzed: 1403

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SS81-0-1	1005132-15	1005132-15A6	06/01/10
02	SCDLCS	0052404-BS1	0052404-BS1J	06/02/10
03	SCDLCSD	0052404-BSD1	0052404-BSD1	06/02/10
04	SB81-5-6	1005132-16	1005132-16JC	06/02/10
05	SS71-0-1	1005132-17	1005132-17JC	06/02/10
06	SS71D-0-1	1005132-18	1005132-18JC	06/02/10
07	SB71-4-5	1005132-19	1005132-19JC	06/02/10
08	SB71D-4-5	1005132-20	1005132-20JC	06/02/10
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

d. Internal Standard Area and RT Summary (Form VIII SV)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E25012-CCV1A66 Date Analyzed: 05/25/10

Instrument ID: 5972HP66 Time Analyzed: 1842

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	85416	19.33	76342	21.95	32289	5.55
	UPPER LIMIT	170832	19.83	152684	22.45	64578	6.05
	LOWER LIMIT	42708	18.83	38171	21.45	16145	5.05
	CLIENT SAMPLE NO.						
01	SBPLCSD	137416	19.32	131639	21.95	28030	5.56
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E25012-CCV1A66 Date Analyzed: 05/25/10

Instrument ID: 5972HP66 Time Analyzed: 1842

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	112116	7.80	52762	11.22	93685	14.09
	UPPER LIMIT	224232	8.30	105524	11.72	187370	14.59
	LOWER LIMIT	56058	7.30	26381	10.72	46843	13.59
	CLIENT SAMPLE NO.						
01	SBPLCSD	100906	7.80	46346	11.22	86084	14.09
02							
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E26002-CCV1C66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 0611

		IS1(CRY)		IS2(PRY)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	157952	19.34	126573	21.96	41032	5.56
	UPPER LIMIT	315904	19.84	253146	22.46	82064	6.06
	LOWER LIMIT	78976	18.84	63287	21.46	20516	5.06
	CLIENT SAMPLE NO.						
01	SBLKBP	179070	19.34	144331	21.96	45579	5.57
02	SBPLCS	140645	19.34	109682	21.96	27317	5.56
03	SB85-1.5-2.5MS	185672	19.34	127260	21.96	28525	5.57
04	SB78-3.5-4.5	217450	19.34	174813	21.96	78036	5.57
05	SS77-0-1	243496	19.34	190956	21.96	100402*	5.58
06	SB77-3.5-4.5	254224	19.34	200267	21.96	103963*	5.58
07	SS79-0-1	204654	19.34	129396	21.96	44721	5.57
08	SB79-11-12	244407	19.34	181962	21.97	93334*	5.58
09	SS83-0-1	220602	19.34	151817	21.97	102359*	5.58
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E26002-CCV1C66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 0611

		IS4 (NPT)		IS5 (ANT)		IS6 (PHN)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	146916	7.80	68609	11.23	134040	14.10
	UPPER LIMIT	293832	8.30	137218	11.73	268080	14.60
	LOWER LIMIT	73458	7.30	34305	10.73	67020	13.60
	CLIENT SAMPLE NO.						
01	SBLKBP	161749	7.81	74966	11.23	141759	14.10
02	SBPLCS	94276	7.80	45876	11.23	96377	14.10
03	SB85-1.5-2.5MS	94599	7.81	47756	11.23	140369	14.10
04	SB78-3.5-4.5	274861	7.81	120571	11.23	225769	14.10
05	SS77-0-1	348711*	7.81	152503*	11.23	262039	14.10
06	SB77-3.5-4.5	364264*	7.81	153322*	11.23	275761*	14.10
07	SS79-0-1	155536	7.82	78023	11.23	195179	14.10
08	SB79-11-12	328636*	7.82	148454*	11.23	265338	14.10
09	SS83-0-1	342054*	7.81	144888*	11.23	248607	14.10
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E26007-CCV1A66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 1759

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	48108	19.34	42285	21.97	32686	5.56
	UPPER LIMIT	96216	19.84	84570	22.47	65372	6.06
	LOWER LIMIT	24054	18.84	21143	21.47	16343	5.06
	CLIENT SAMPLE NO.						
01	SB85-1.5-2.5MSD	69271	19.34	64943	21.97	26595	5.57
02	SB85-1.5-2.5	87642	19.35	77749	21.97	32048	5.57
03	SS77-0-1RE	119685*	19.34	88100*	21.97	25621	5.57
04	SB77-3.5-4.5RE	143081*	19.34	109918*	21.97	23581	5.57
05	SB79-11-12RE	153253*	19.34	112991*	21.97	32408	5.56
06	SS83-0-1RE	127666*	19.35	74610	21.97	19683	5.57
07	SS84-0-1	115084*	19.35	103481*	21.98	55405	5.59
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E26007-CCV1A66 Date Analyzed: 05/26/10

Instrument ID: 5972HP66 Time Analyzed: 1759

		IS4(NPT) AREA	#	RT	#	IS5(ANT) AREA	#	RT	#	IS6(PHN) AREA	#	RT	#
	12 HOUR STD	95578		7.81		43073		11.23		64008		14.10	
	UPPER LIMIT	191156		8.31		86146		11.73		128016		14.60	
	LOWER LIMIT	47789		7.31		21537		10.73		32004		13.60	
	CLIENT SAMPLE NO.												
01	SB85-1.5-2.5MSD	68707		7.82		29920		11.23		48309		14.11	
02	SB85-1.5-2.5	85762		7.81		37728		11.23		59389		14.11	
03	SS77-0-1RE	72806		7.81		35160		11.23		67271		14.11	
04	SB77-3.5-4.5RE	72114		7.82		37816		11.23		88891		14.11	
05	SB79-11-12RE	95813		7.81		45579		11.23		87329		14.10	
06	SS83-0-1RE	52118		7.81		26805		11.23		80906		14.11	
07	SS84-0-1	145992		7.82		69201		11.24		134582	*	14.11	
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E27003-CCV1C66 Date Analyzed: 05/27/10

Instrument ID: 5972HP66 Time Analyzed: 0600

		IS1(CRY)		IS2(PRY)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	166666	19.35	125008	21.98	53349	5.57
	UPPER LIMIT	333332	19.85	250016	22.48	106698	6.07
	LOWER LIMIT	83333	18.85	62504	21.48	26675	5.07
	CLIENT SAMPLE NO.						
01	SB83-6.5-7.5	113531	19.36	88371	21.99	66279	5.58
02	SS62-0-1	134394	19.38	84930	22.01	49850	5.57
03	SS74-0-1	138998	19.37	106917	22.00	61407	5.58
04	SS86-0-1	167848	19.37	133257	22.00	56423	5.59
05	SS84-0-1RE	231168	19.37	180139	22.01	97208	5.59
06	SB84-6-7	229321	19.37	186902	22.01	87242	5.59
07	SB86-3-4	88778	19.37	65592	22.01	32341	5.57
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0E27003-CCV1C66 Date Analyzed: 05/27/10

Instrument ID: 5972HP66 Time Analyzed: 0600

		IS4(NPT)		IS5(ANT)		IS6(PHN)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	181579	7.81	104824	11.24	233418	14.11
	UPPER LIMIT	363158	8.31	209648	11.74	466836	14.61
	LOWER LIMIT	90789	7.31	52412	10.74	116709	13.61
	CLIENT SAMPLE NO.						
01	SB83-6.5-7.5	205329	7.83	89007	11.24	178187	14.13
02	SS62-0-1	215130	7.81	117726	11.24	254445	14.13
03	SS74-0-1	226235	7.83	117487	11.24	234269	14.13
04	SS86-0-1	245319	7.83	137802	11.24	284131	14.13
05	SS84-0-1RE	381791*	7.83	181881	11.24	357510	14.13
06	SB84-6-7	342594	7.83	169913	11.24	334514	14.13
07	SB86-3-4	145826	7.83	95298	11.26	207822	14.13
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0F01008-CCV1A66 Date Analyzed: 06/01/10

Instrument ID: 5972HP66 Time Analyzed: 1329

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	245547	19.33	214161	21.96	103604	5.53
	UPPER LIMIT	491094	19.83	428322	22.46	207208	6.03
	LOWER LIMIT	122773	18.83	107081	21.46	51802	5.03
	CLIENT SAMPLE NO.						
01	SBLKCD	146327	19.33	124833	21.96	69559	5.54
02	SS81-0-1	160407	19.34	125833	21.97	114031	5.55
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0F01008-CCV1A66 Date Analyzed: 06/01/10

Instrument ID: 5972HP66 Time Analyzed: 1329

		IS4(NPT) AREA #	RT #	IS5(ANT) AREA #	RT #	IS6(PHN) AREA #	RT #
	12 HOUR STD	383434	7.77	162715	11.19	275979	14.07
	UPPER LIMIT	766868	8.27	325430	11.69	551958	14.57
	LOWER LIMIT	191717	7.27	81357	10.69	137989	13.57
	CLIENT SAMPLE NO.						
01	SBLKCD	243258	7.79	104418	11.19	180808	14.07
02	SS81-0-1	410174	7.78	167821	11.19	247911	14.08
03							
04							
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0F02003-CCV1C66 Date Analyzed: 06/02/10

Instrument ID: 5972HP66 Time Analyzed: 0027

		IS1(CRY) AREA #	RT #	IS2(PRY) AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	134828	19.35	113722	21.99	52288	5.53
	UPPER LIMIT	269656	19.85	227444	22.49	104576	6.03
	LOWER LIMIT	67414	18.85	56861	21.49	26144	5.03
	CLIENT SAMPLE NO.						
01	SCDLCS	124412	19.34	109233	21.99	50812	5.54
02	SCDLCSD	174484	19.35	157074	21.99	73635	5.54
03	SB81-5-6	125453	19.35	112790	21.99	61800	5.56
04	SS71-0-1	116668	19.35	105615	21.99	49969	5.55
05	SS71D-0-1	120691	19.35	102556	21.99	48713	5.55
06	SB71-4-5	97992	19.35	80345	21.99	55301	5.56
07	SB71D-4-5	123815	19.35	104746	21.99	51317	5.56
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (CRY) = Chrysene-d12
IS2 (PRY) = Perylene-d12
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Lab File ID (Standard): 0F02003-CCV1C66 Date Analyzed: 06/02/10

Instrument ID: 5972HP66 Time Analyzed: 0027

		IS4(NPT)		IS5(ANT)		IS6(PHN)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	154045	7.79	85436	11.20	152743	14.10
	UPPER LIMIT	308090	8.29	170872	11.70	305486	14.60
	LOWER LIMIT	77023	7.29	42718	10.70	76371	13.60
	CLIENT SAMPLE NO.						
01	SCDLCS	153614	7.79	80343	11.20	145139	14.10
02	SCDLCSD	241006	7.79	117641	11.20	212603	14.09
03	SB81-5-6	210014	7.79	95234	11.22	165888	14.10
04	SS71-0-1	173863	7.79	80938	11.22	134055	14.10
05	SS71D-0-1	169775	7.79	77215	11.22	131026	14.10
06	SB71-4-5	174007	7.79	74457	11.22	123868	14.10
07	SB71D-4-5	175852	7.79	81890	11.22	145447	14.10
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (NPT) = Naphthalene-d8
IS5 (ANT) = Acenaphthene-d10
IS6 (PHN) = Phenanthrene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I SV), followed by the raw data for semivolatile samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results (Form I SV)

Tabulated results (identification and quantitation) shall be included.

b. Chromatograms

Include for each sample or sample extract, including dilutions and reanalyses. The chromatogram shall contain the following header information: Client Sample ID number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.

c. Quantitation Report showing calculations for target analytes

- Include a printout of the Enhanced Ion Current Profile (EICP) for all manual changes to the compounds, internal standard, and/or surrogate compound.

d. Copies of raw spectra and copies of background-subtracted mass spectra of target analytes identified in the sample.

- The spectra shall include the following information: Client Sample ID number, Lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB71-4-5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-19JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 20 decanted: (Y/N) N Date Extracted:05/24/10

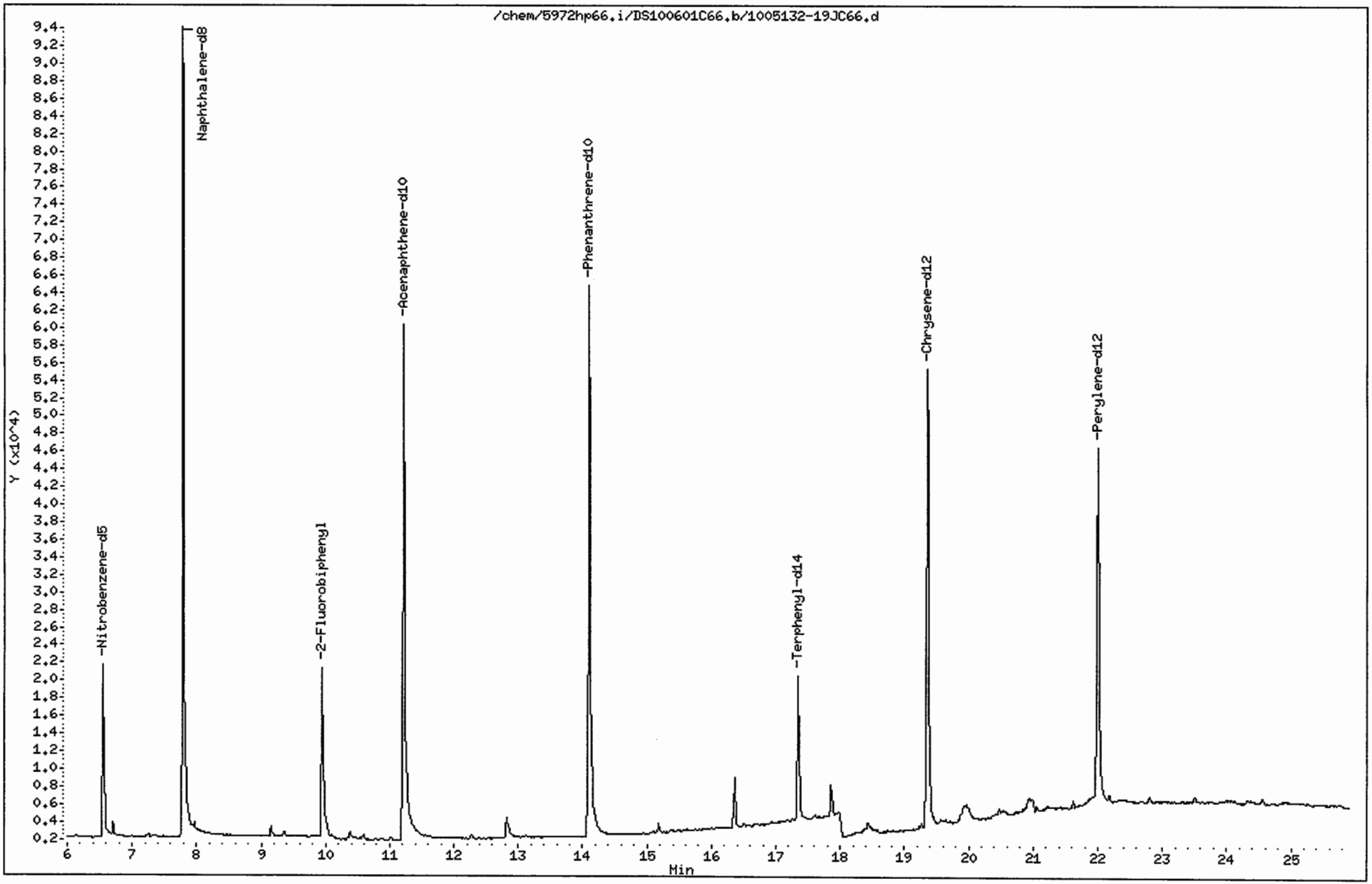
Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-19JC66.d
Date : 02-JUN-2010 04:29
Client ID: SB71-4-5
Instrument: 5972hp66.i
Sample Info: 1005132-19;2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601C66.b/1005132-19JC66.d
Report Date: 07-Jun-2010 11:48

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601C66.b/1005132-19JC66.d
Lab Smp Id: 1005132-19 Client Smp ID: SB71-4-5
Inj Date : 02-JUN-2010 04:29
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-19:2743
Misc Info : SB71-4-5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601C66.b/SIM_8270Cv2DOD.m
Meth Date : 07-Jun-2010 10:54 mead Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	20.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.557	5.534	(1.000)	55301	2.00000	
* 2	Naphthalene-d8	136	7.786	7.789	(1.000)	174007	2.00000	
* 3	Acenaphthene-d10	164	11.217	11.205	(1.000)	74457	2.00000	
* 4	Phenanthrene-d10	188	14.101	14.100	(1.000)	123868	2.00000	
* 5	Chrysene-d12	240	19.354	19.354	(1.000)	97992	2.00000	
* 6	Perylene-d12	264	21.993	21.994	(1.000)	80345	2.00000	
$ 9	Nitrobenzene-d5	82	6.561	6.537	(0.843)	25407	0.65617	14
$ 10	2-Fluorobiphenyl	172	9.950	9.940	(0.887)	34078	0.43860	9.1(R)
$ 12	Terphenyl-d14	244	17.347	17.346	(0.896)	24951	0.70078	15
13	Naphthalene	128	Compound Not Detected.					
15	2-Methylnaphthalene	141	Compound Not Detected.					
17	Acenaphthylene	152	Compound Not Detected.					
18	Acenaphthene	154	Compound Not Detected.					

RW 6/18/10

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-19JC66.d
Report Date: 07-Jun-2010 11:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB71D-4-5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-20JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 20 decanted: (Y/N) N Date Extracted:05/24/10

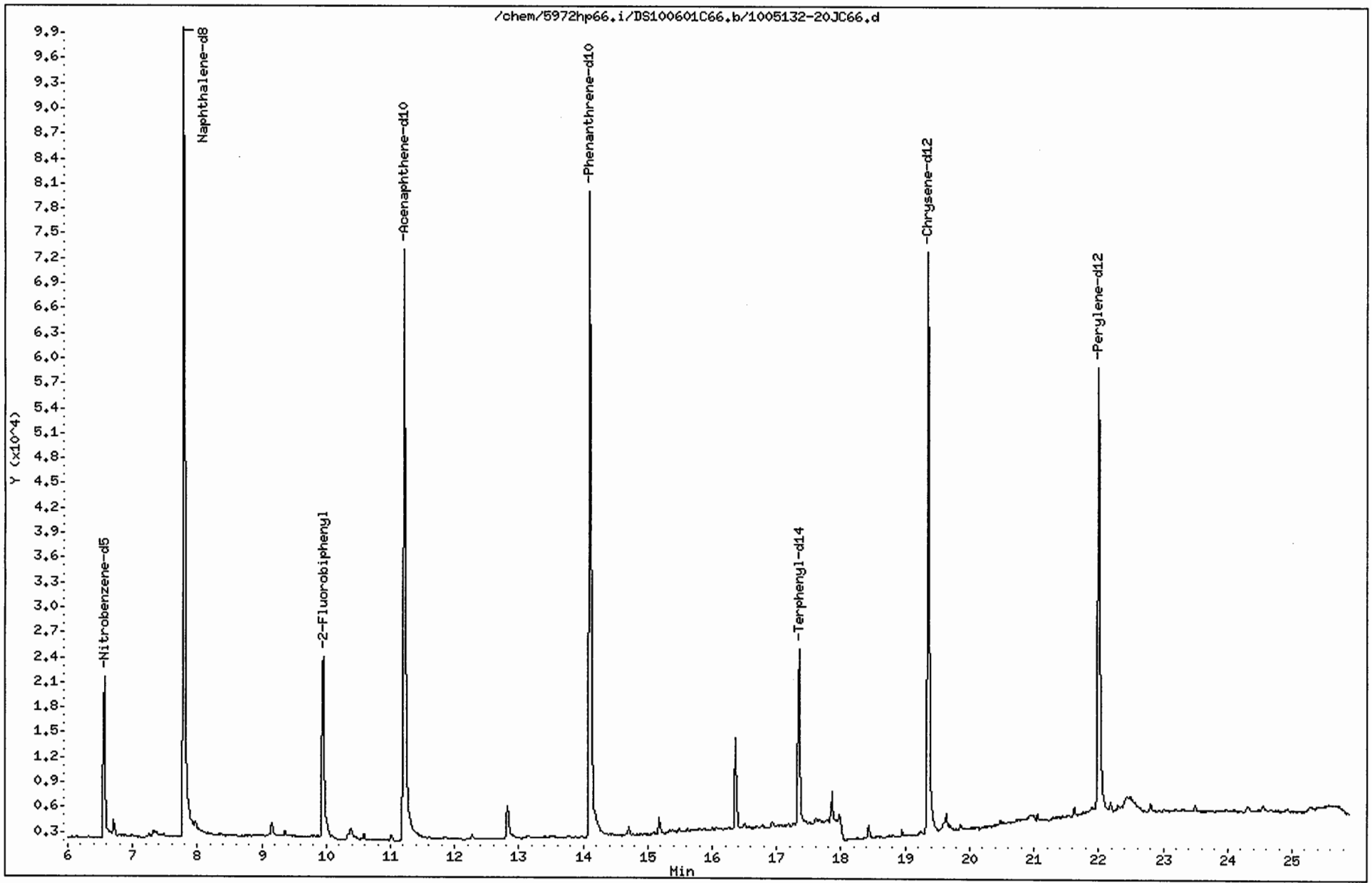
Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-20JC66.d
Date : 02-JUN-2010 05:03
Client ID: SB71D-4-5
Instrument: 5972hp66.i
Sample Info: 1005132-20:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601C66.b/1005132-20JC66.d
Report Date: 07-Jun-2010 11:48

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601C66.b/1005132-20JC66.d
Lab Smp Id: 1005132-20 Client Smp ID: SB71D-4-5
Inj Date : 02-JUN-2010 05:03
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-20:2743
Misc Info : SB71D-4-5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601C66.b/SIM_8270Cv2DOD.m
Meth Date : 07-Jun-2010 10:54 mead Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	20.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.559	5.534	(1.000)	51317	2.00000	
*	2 Naphthalene-d8	136	7.788	7.789	(1.000)	175852	2.00000	
*	3 Acenaphthene-d10	164	11.218	11.205	(1.000)	81890	2.00000	
*	4 Phenanthrene-d10	188	14.100	14.100	(1.000)	145447	2.00000	
*	5 Chrysene-d12	240	19.354	19.354	(1.000)	123815	2.00000	
*	6 Perylene-d12	264	21.994	21.994	(1.000)	104746	2.00000	
$	9 Nitrobenzene-d5	82	6.563	6.537	(0.843)	27307	0.69785	15
$	10 2-Fluorobiphenyl	172	9.952	9.940	(0.887)	40293	0.47152	9.8
$	12 Terphenyl-d14	244	17.346	17.346	(0.896)	32770	0.72843	15
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

Run 6/8/10

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-20JC66.d
Report Date: 07-Jun-2010 11:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB77-3.5-4.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-04C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 10 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

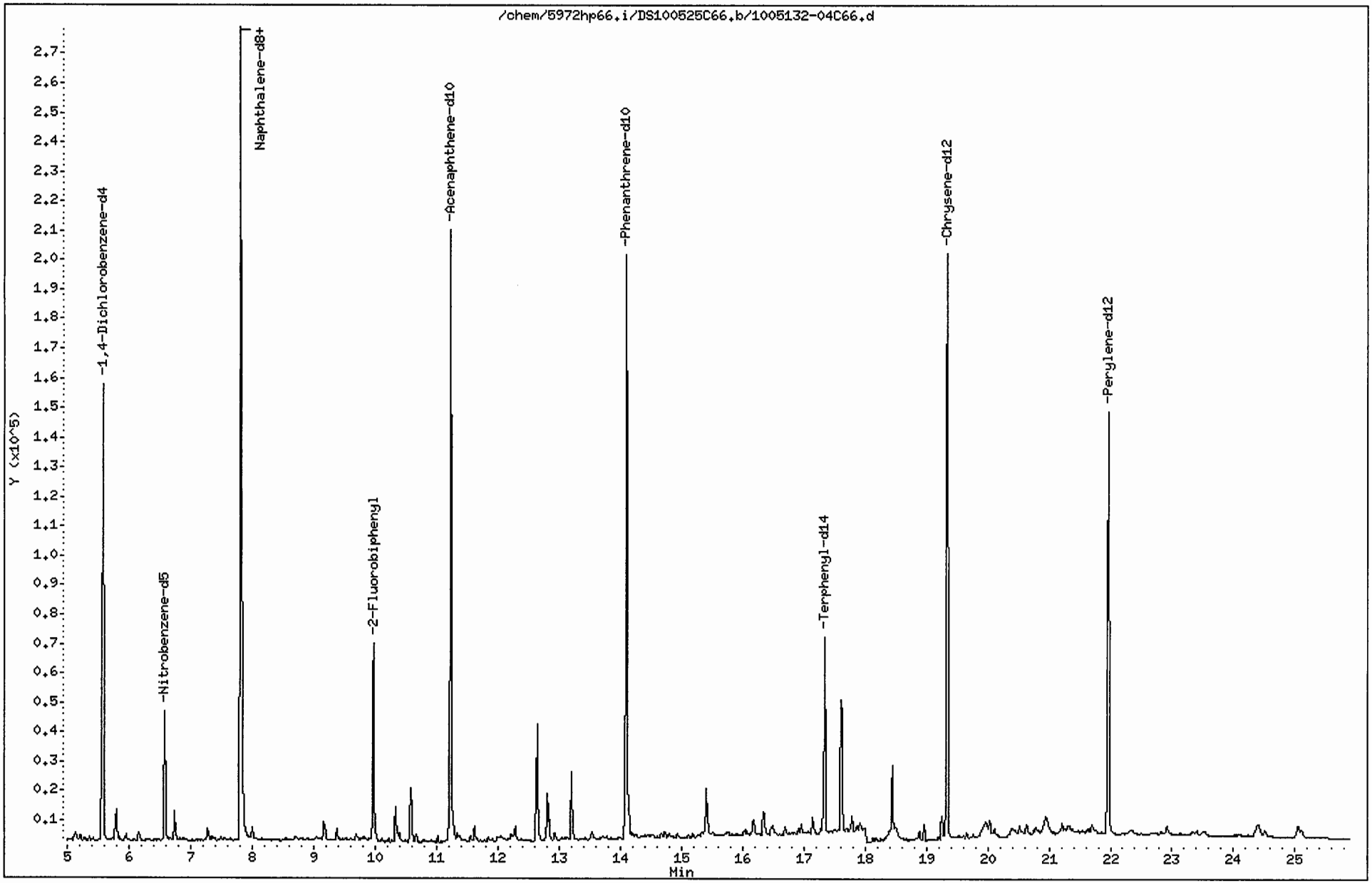
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.1	J
91-57-6	2-Methylnaphthalene	0.85	J
208-96-8	Acenaphthylene	9.2	U
83-32-9	Acenaphthene	9.2	U
86-73-7	Fluorene	9.2	U
85-01-8	Phenanthrene	9.2	U
120-12-7	Anthracene	9.2	U
206-44-0	Fluoranthene	9.2	U
129-00-0	Pyrene	9.2	U
56-55-3	Benzo(a)anthracene	9.2	U
218-01-9	Chrysene	9.2	U
205-99-2	Benzo(b)fluoranthene	9.2	U
207-08-9	Benzo(k)fluoranthene	9.2	U
50-32-8	Benzo(a)pyrene	9.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.2	U
53-70-3	Dibenzo(a,h)anthracene	9.2	U
191-24-2	Benzo(g,h,i)perylene	9.2	U

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-04C66.d
Date : 26-MAY-2010 15:17
Client ID: SB77-3.5-4.5
Sample Info: 1005132-04:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/1005132-04C66.d
Report Date: 03-Jun-2010 17:54

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/1005132-04C66.d
Lab Smp Id: 1005132-04 Client Smp ID: SB77-3.5-4.5
Inj Date : 26-MAY-2010 15:17
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-04:2730
Misc Info : SB77-3.5-4.5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 18:08 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	10.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.582	5.560	(1.000)	103963	2.00000	
* 2	Naphthalene-d8	136	7.811	7.802	(1.000)	364264	2.00000	
* 3	Acenaphthene-d10	164	11.231	11.231	(1.000)	153322	2.00000	
* 4	Phenanthrene-d10	188	14.100	14.101	(1.000)	275761	2.00000	
* 5	Chrysene-d12	240	19.336	19.336	(1.000)	254224	2.00000	
* 6	Perylene-d12	264	21.962	21.961	(1.000)	200267	2.00000	
$ 9	Nitrobenzene-d5	82	6.573	6.563	(0.841)	55702	0.68721	13
$ 10	2-Fluorobiphenyl	172	9.975	9.966	(0.888)	102252	0.63910	12
$ 12	Terphenyl-d14	244	17.346	17.347	(0.897)	82955	0.89807	17
13	Naphthalene	128	7.850	7.841	(1.005)	13203	0.05860	1.1(a)
15	2-Methylnaphthalene	141	9.167	9.170	(0.816)	5063	0.04612	0.85(a)
17	Acenaphthylene	152	Compound Not Detected.					
18	Acenaphthene	154	Compound Not Detected.					

6/3/10 MT

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-04C66.d
Report Date: 03-Jun-2010 17:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-04C66.d

Date : 26-MAY-2010 15:17

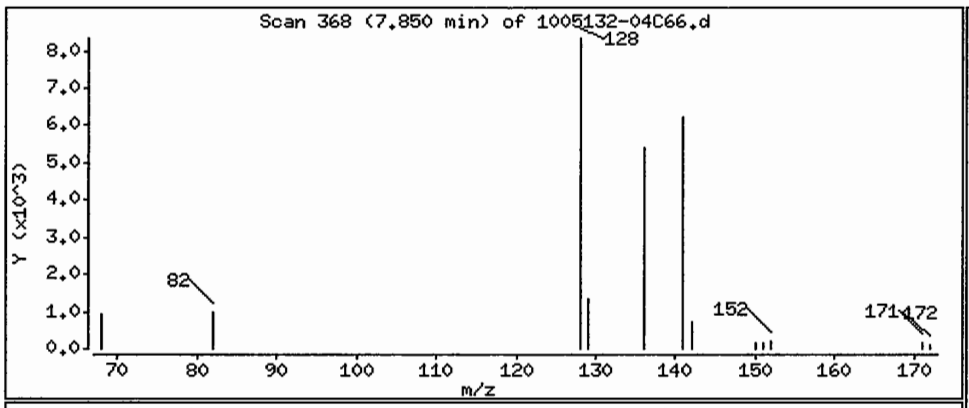
Client ID: SB77-3.5-4.5 Instrument: 5972hp66.i

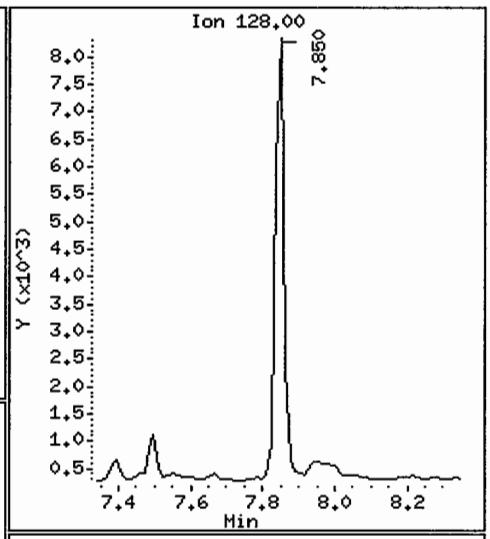
Sample Info: 1005132-04:2730

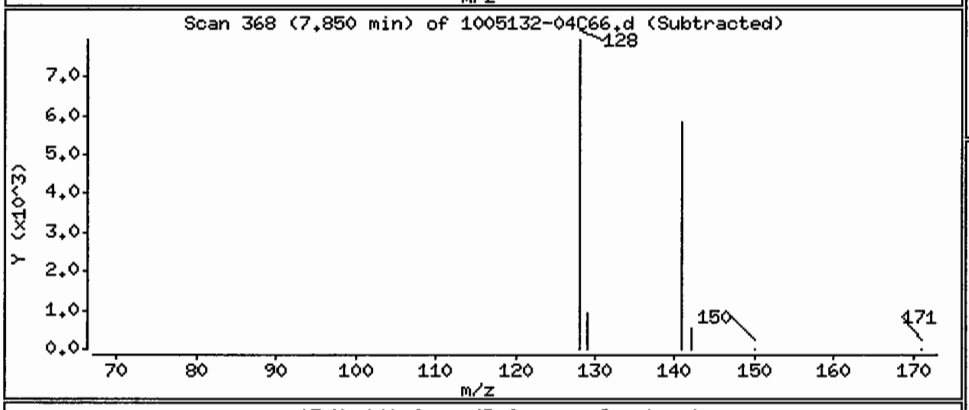
Volume Injected (uL): 2.0 Operator: 2730

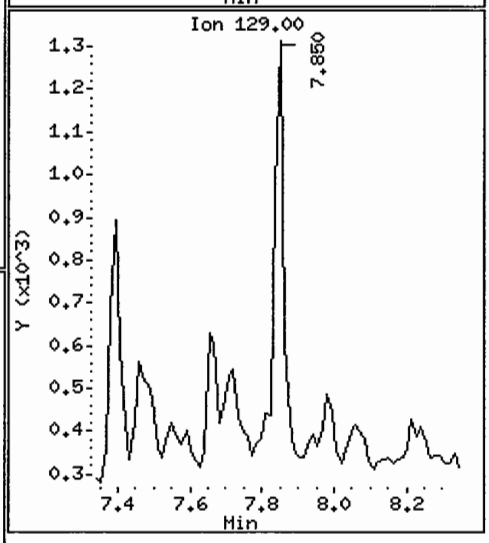
Column phase: Rtx-5MS Column diameter: 0.32

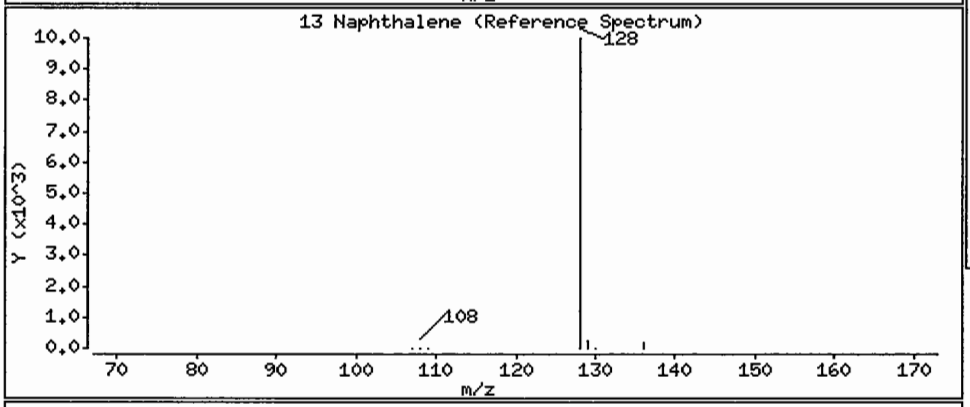
13 Naphthalene Concentration: 1.1 ug/Kg

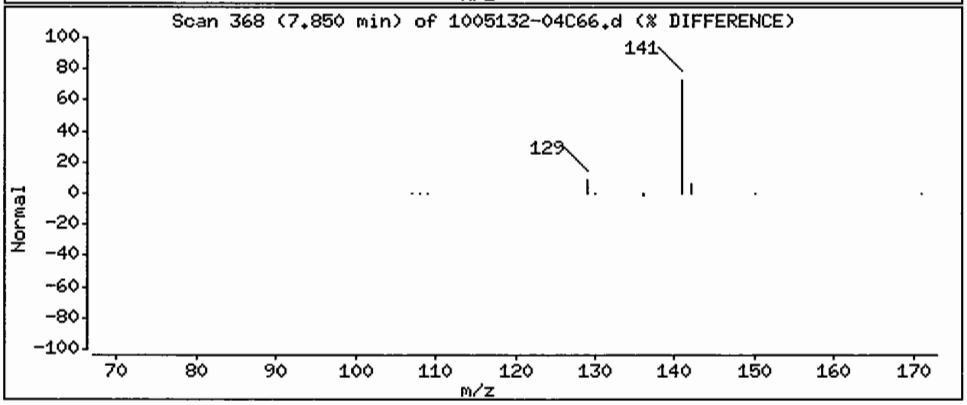












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-04C66.d

Date : 26-MAY-2010 15:17

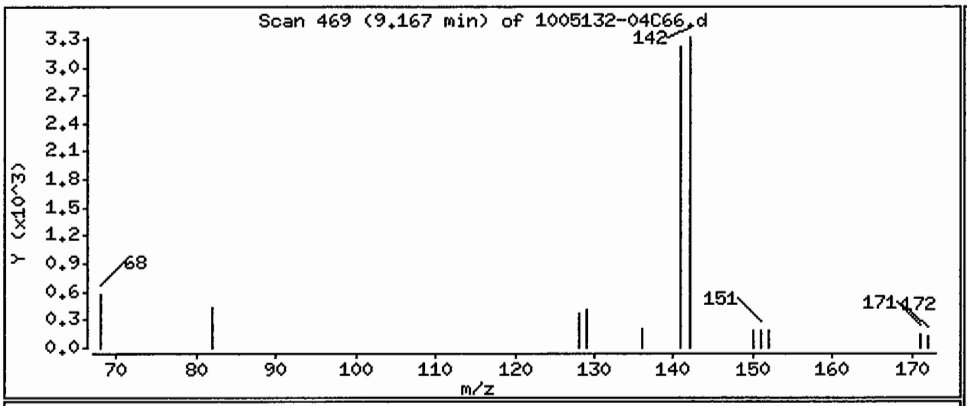
Client ID: SB77-3.5-4.5 Instrument: 5972hp66.i

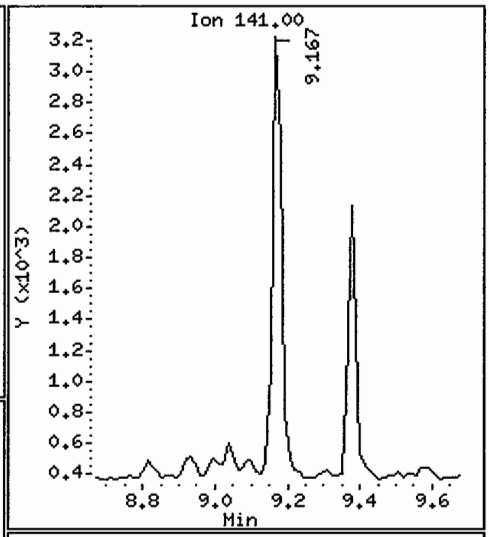
Sample Info: 1005132-04:2730

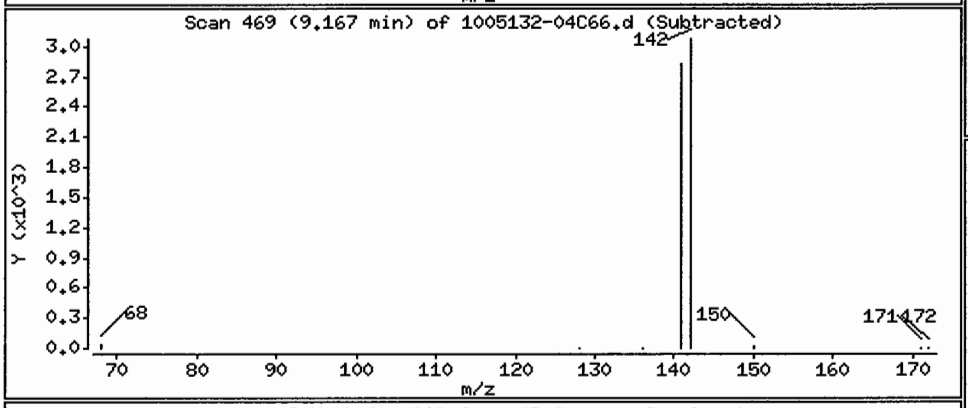
Volume Injected (uL): 2.0 Operator: 2730

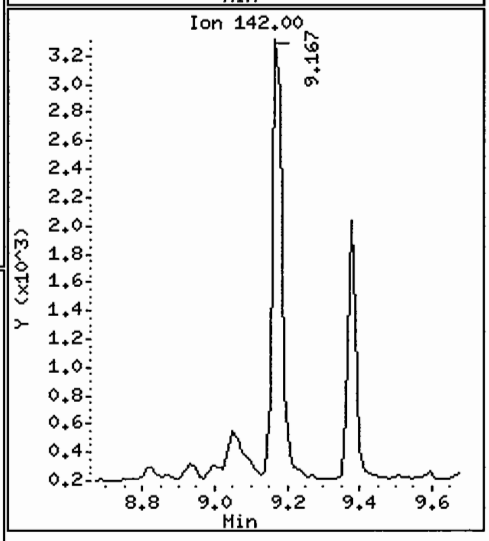
Column phase: Rtx-5MS Column diameter: 0.32

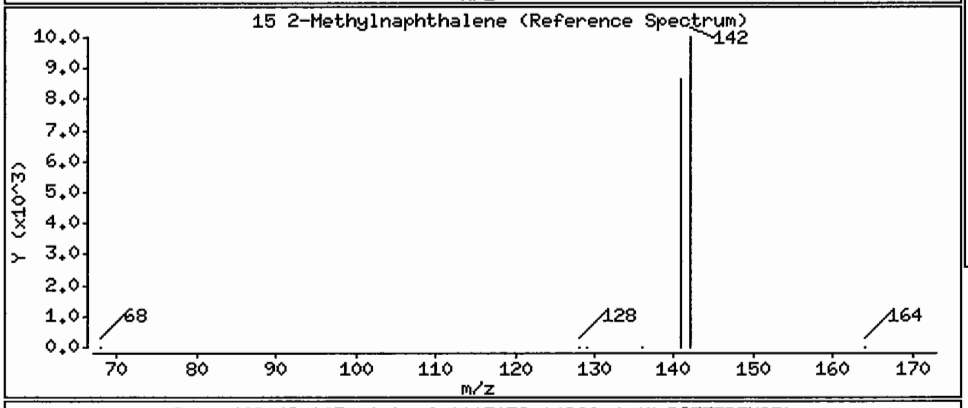
15 2-Methylnaphthalene Concentration: 0.85 ug/Kg

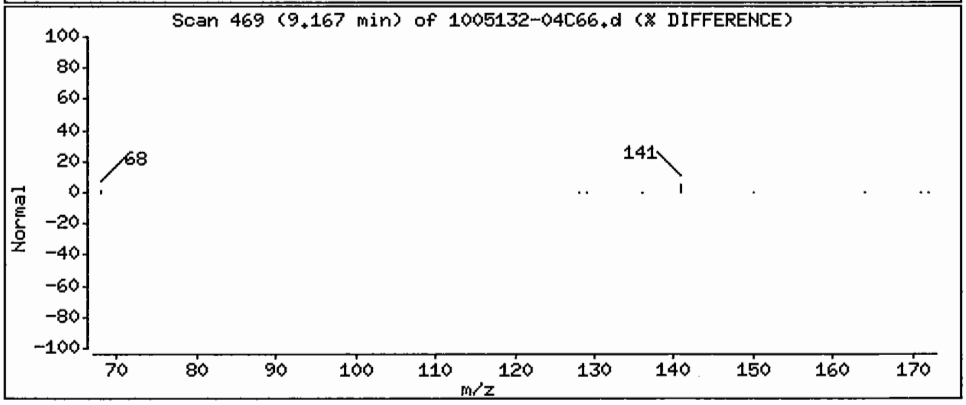












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB77-3.5-4.5RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-04JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 10 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

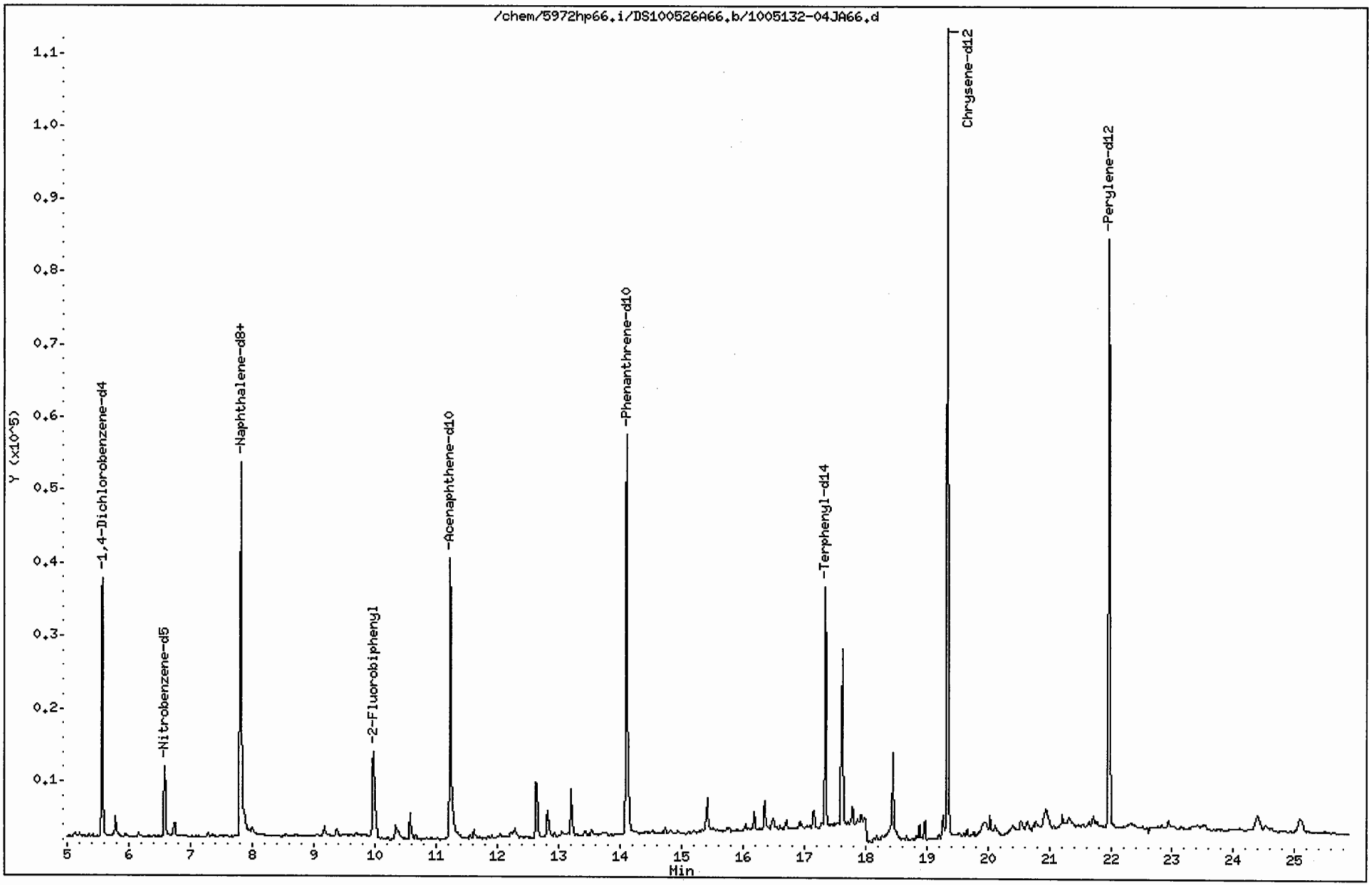
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.4	J
91-57-6	2-Methylnaphthalene	0.77	J
208-96-8	Acenaphthylene	9.2	U
83-32-9	Acenaphthene	9.2	U
86-73-7	Fluorene	9.2	U
85-01-8	Phenanthrene	9.2	U
120-12-7	Anthracene	9.2	U
206-44-0	Fluoranthene	9.2	U
129-00-0	Pyrene	9.2	U
56-55-3	Benzo(a)anthracene	9.2	U
218-01-9	Chrysene	9.2	U
205-99-2	Benzo(b)fluoranthene	9.2	U
207-08-9	Benzo(k)fluoranthene	9.2	U
50-32-8	Benzo(a)pyrene	9.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.2	U
53-70-3	Dibenzo(a,h)anthracene	9.2	U
191-24-2	Benzo(g,h,i)perylene	9.2	U

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d
Date : 26-MAY-2010 20:17
Client ID: SB77-3.5-4.5RE
Sample Info: 1005132-04:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d
Report Date: 03-Jun-2010 16:30

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d
Lab Smp Id: 1005132-04 Client Smp ID: SB77-3.5-4.5RE
Inj Date : 26-MAY-2010 20:17
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-04:2730
Misc Info : SB77-3.5-4.5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 15:45 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	10.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.574	5.558	(1.000)	23581	2.00000	
* 2 Naphthalene-d8	136	7.816	7.813	(1.000)	72114	2.00000	
* 3 Acenaphthene-d10	164	11.230	11.231	(1.000)	37816	2.00000	
* 4 Phenanthrene-d10	188	14.114	14.099	(1.000)	88891	2.00000	
* 5 Chrysene-d12	240	19.344	19.336	(1.000)	143081	2.00000	
* 6 Perylene-d12	264	21.972	21.973	(1.000)	109918	2.00000	
$ 9 Nitrobenzene-d5	82	6.577	6.575	(0.842)	10993	0.68506	13
$ 10 2-Fluorobiphenyl	172	9.979	9.964	(0.889)	21808	0.55264	10
$ 12 Terphenyl-d14	244	17.347	17.346	(0.897)	40982	0.78831	15
13 Naphthalene	128	7.842	7.839	(1.003)	3454	0.07743	1.4(aM)
15 2-Methylnaphthalene	141	9.171	9.169	(0.817)	1130	0.04174	0.77(aM)
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

6/3/10 MH

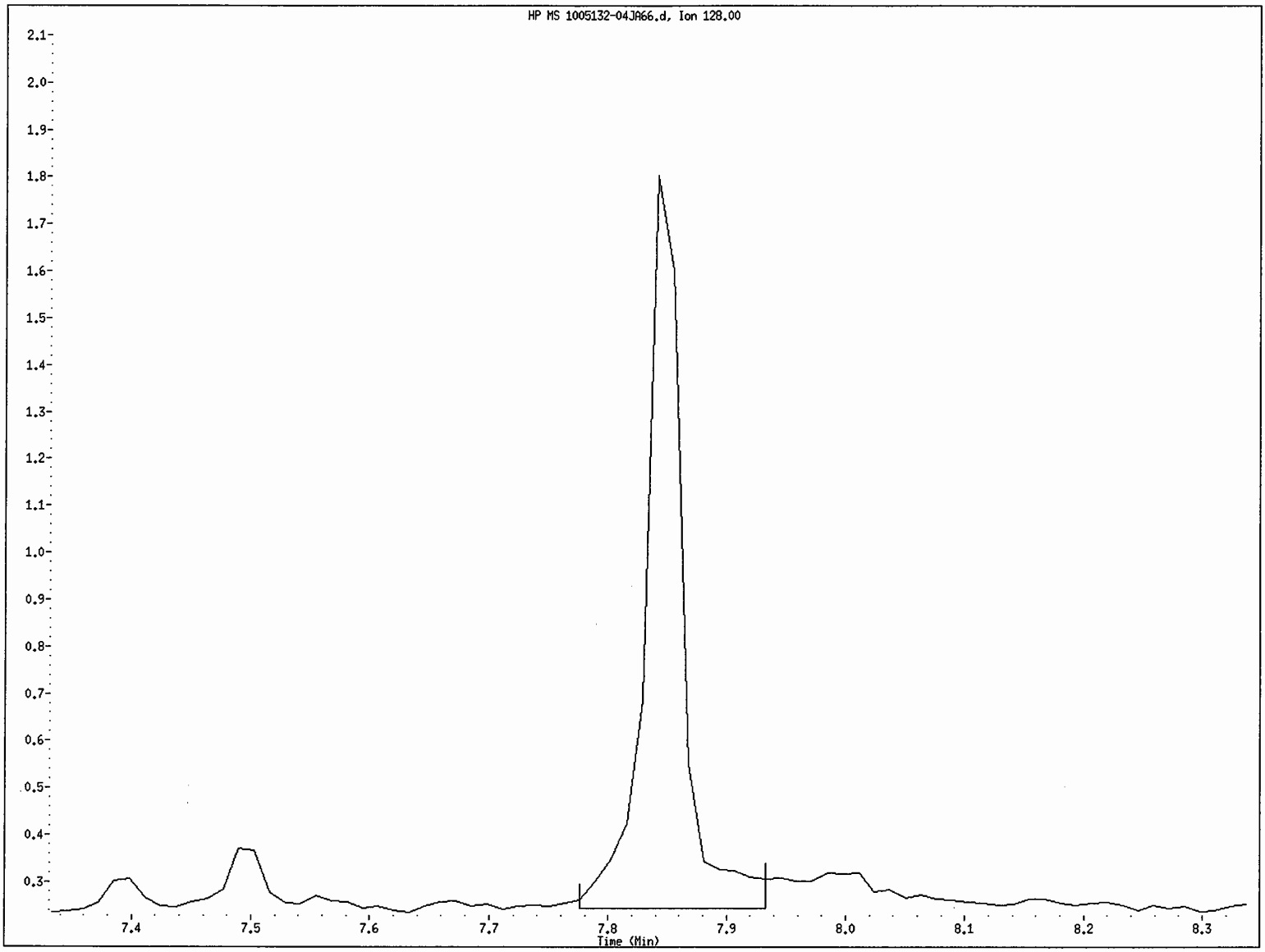
Data File: /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d
Report Date: 03-Jun-2010 16:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

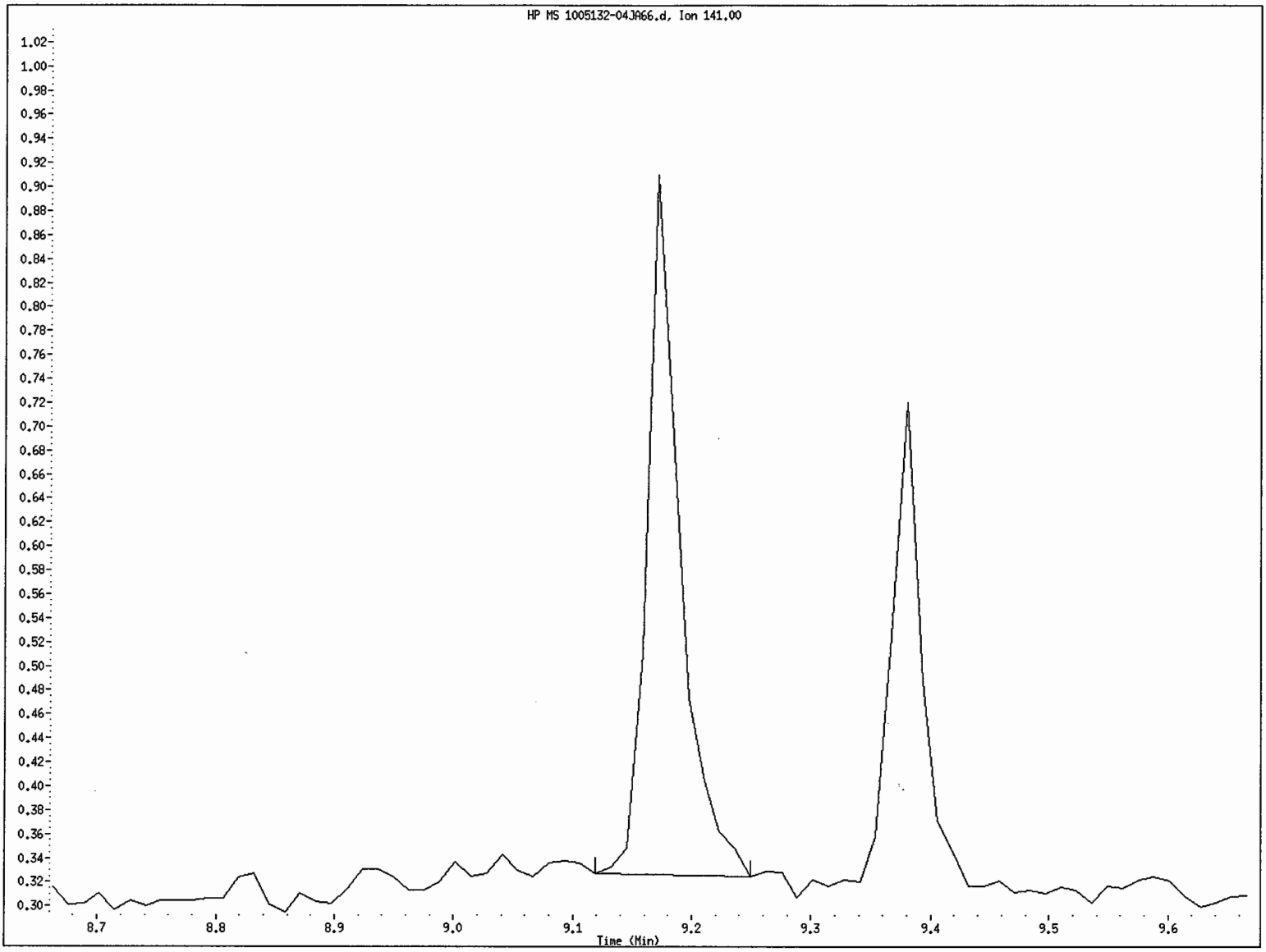
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Naphthalene CAS Number 91-20-3 Area = 3454 Manually integrated



File name: /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d
Client ID: SB77-3.5-4.5RE
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 20:17
Retention Time: 7.84
Operator ID: 2730

2-Methylnaphthalene CAS Number 91-57-6 Area = 1130 Manually integrated



File name: /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d
Client ID: SB77-3.5-4.5RE
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 20:17
Retention Time: 9.17
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d

Date : 26-MAY-2010 20:17

Client ID: SB77-3.5-4.5RE

Instrument: 5972hp66.i

Sample Info: 1005132-04:2730

Volume Injected (uL): 2.0

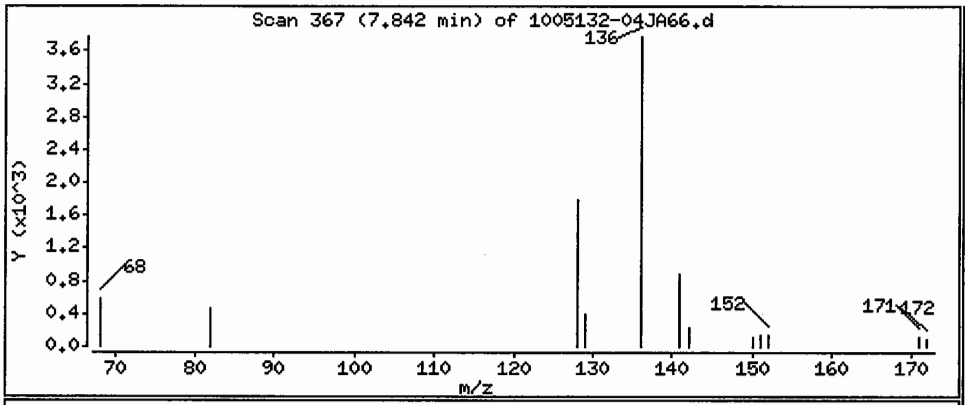
Operator: 2730

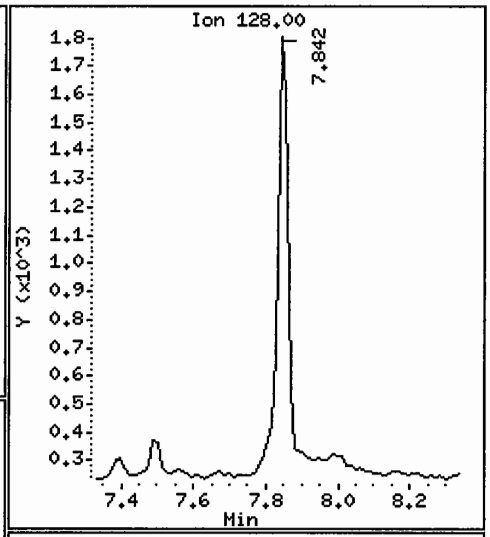
Column phase: Rtx-5MS

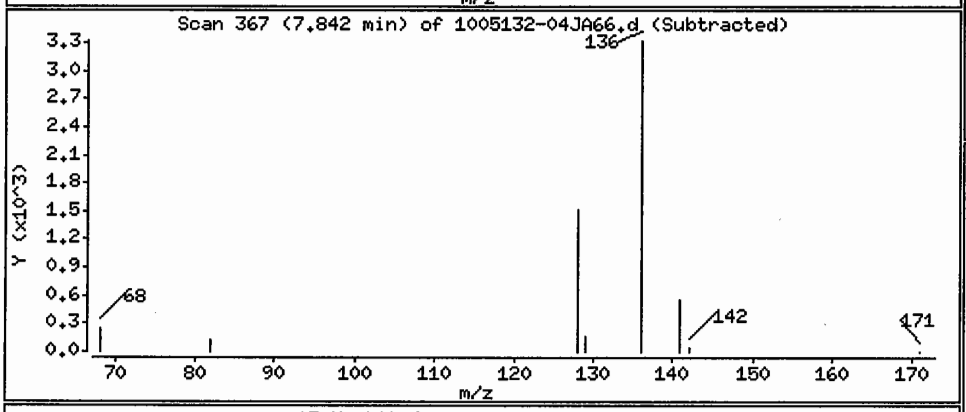
Column diameter: 0.32

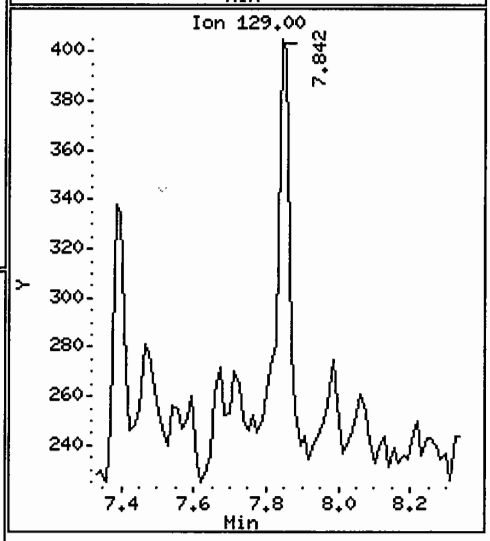
13 Naphthalene

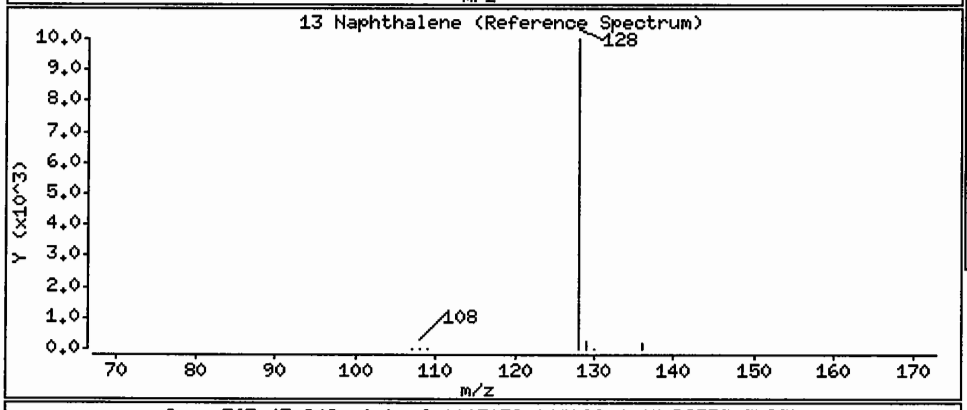
Concentration: 1.4 ug/Kg

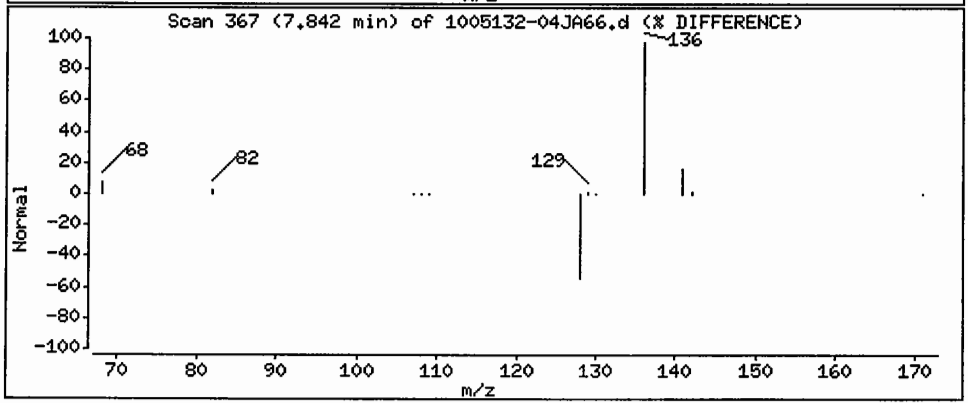












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d

Date : 26-MAY-2010 20:17

Client ID: SB77-3.5-4.5RE

Instrument: 5972hp66.i

Sample Info: 1005132-04:2730

Volume Injected (uL): 2.0

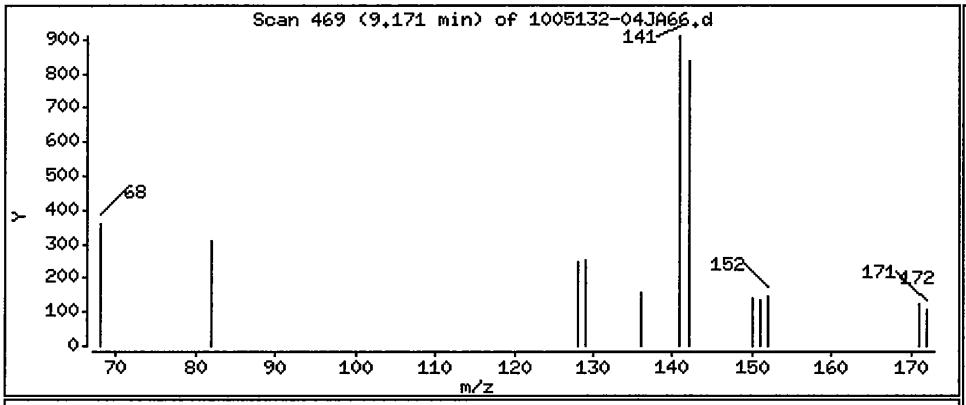
Operator: 2730

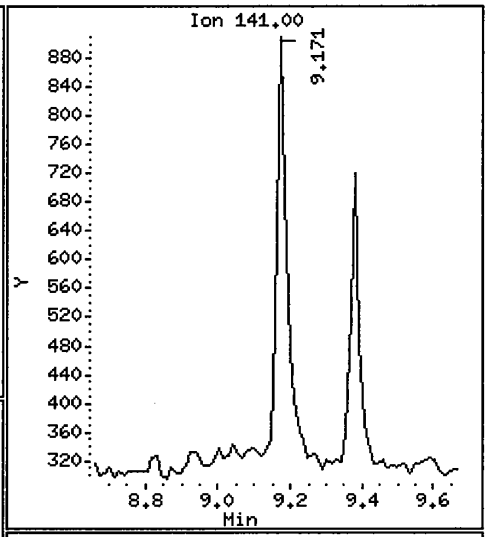
Column phase: Rtx-5MS

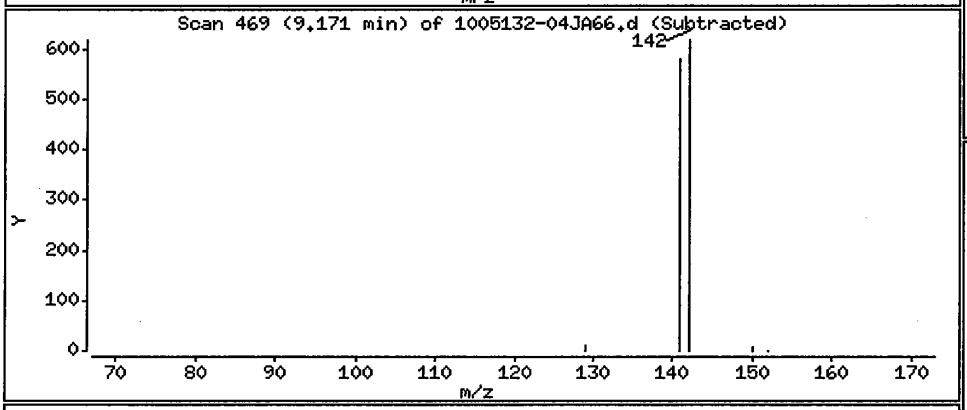
Column diameter: 0.32

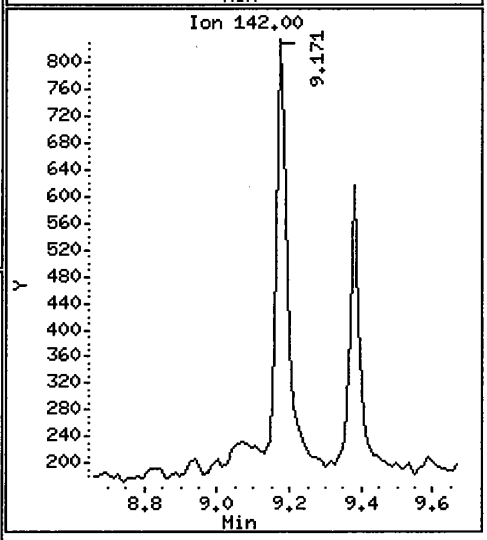
15 2-Methylnaphthalene

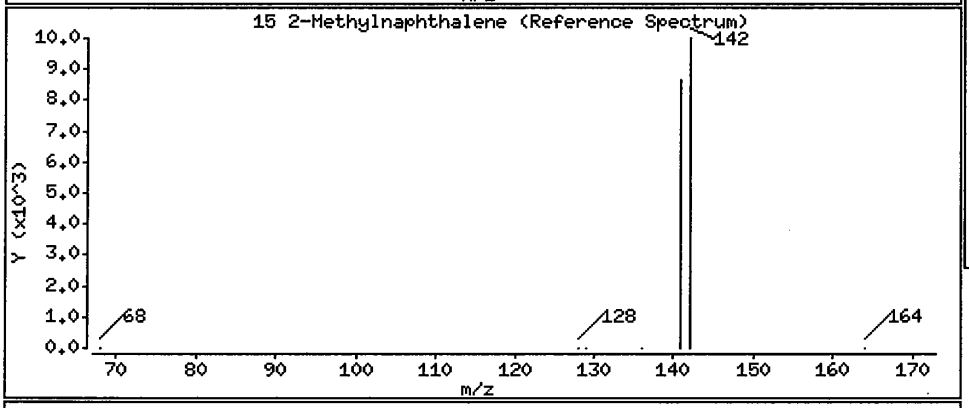
Concentration: 0.77 ug/Kg

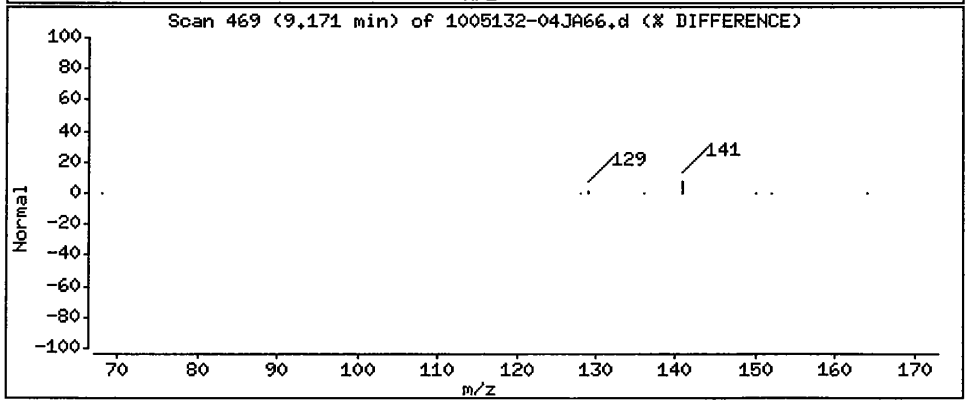






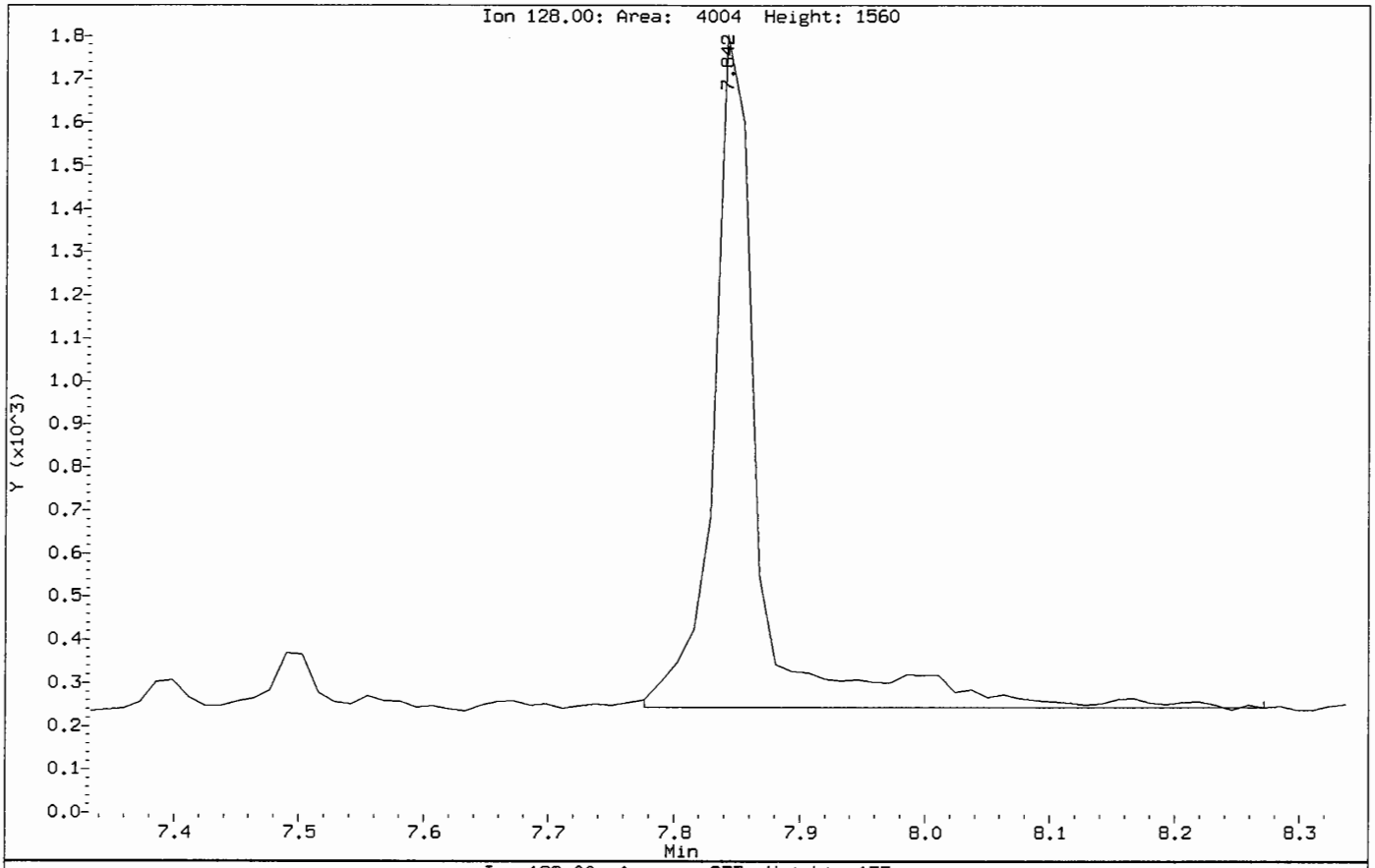


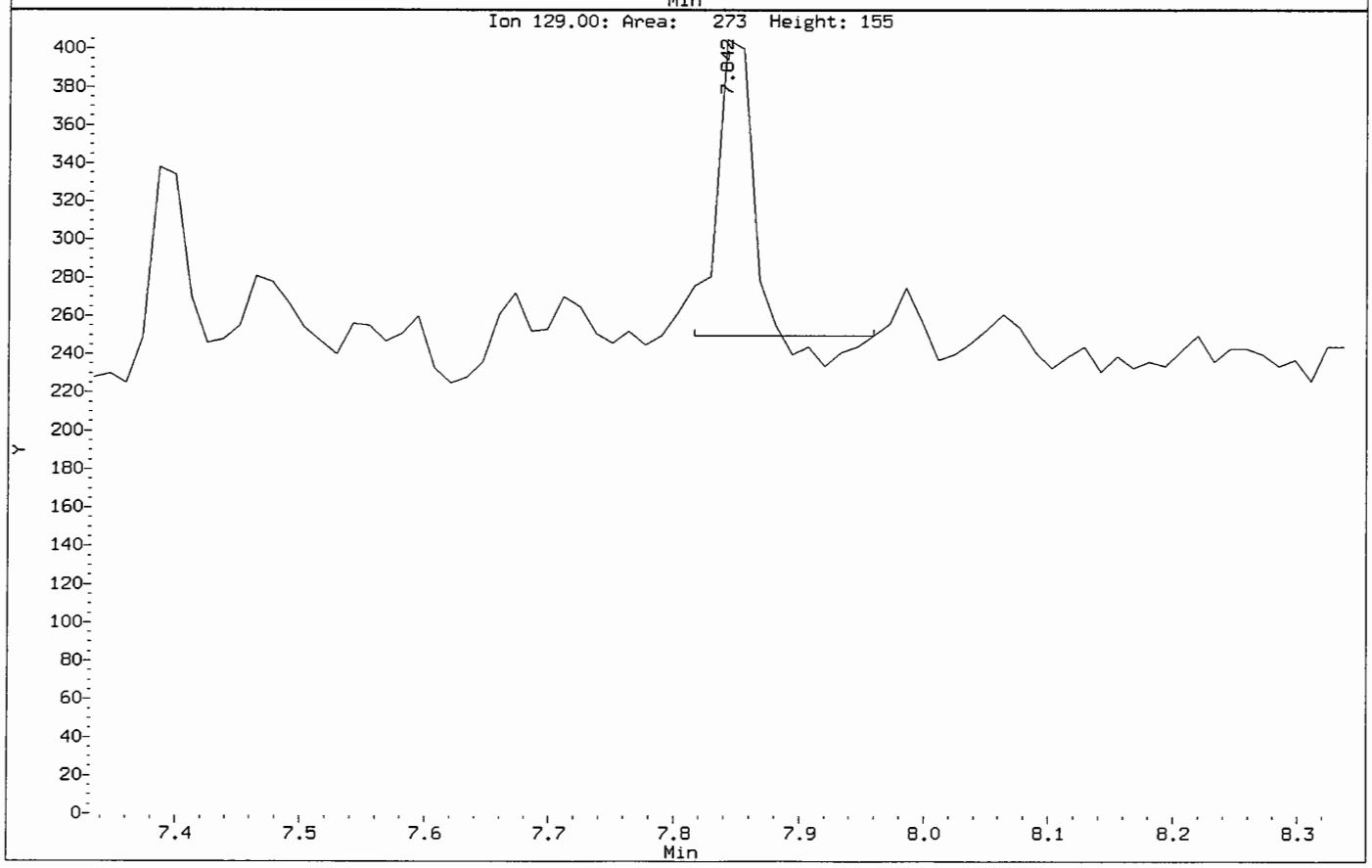




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d
Injection Date: 26-MAY-2010 20:17
Instrument: 5972hp66.i
Client Sample ID: SB77-3.5-4.5RE

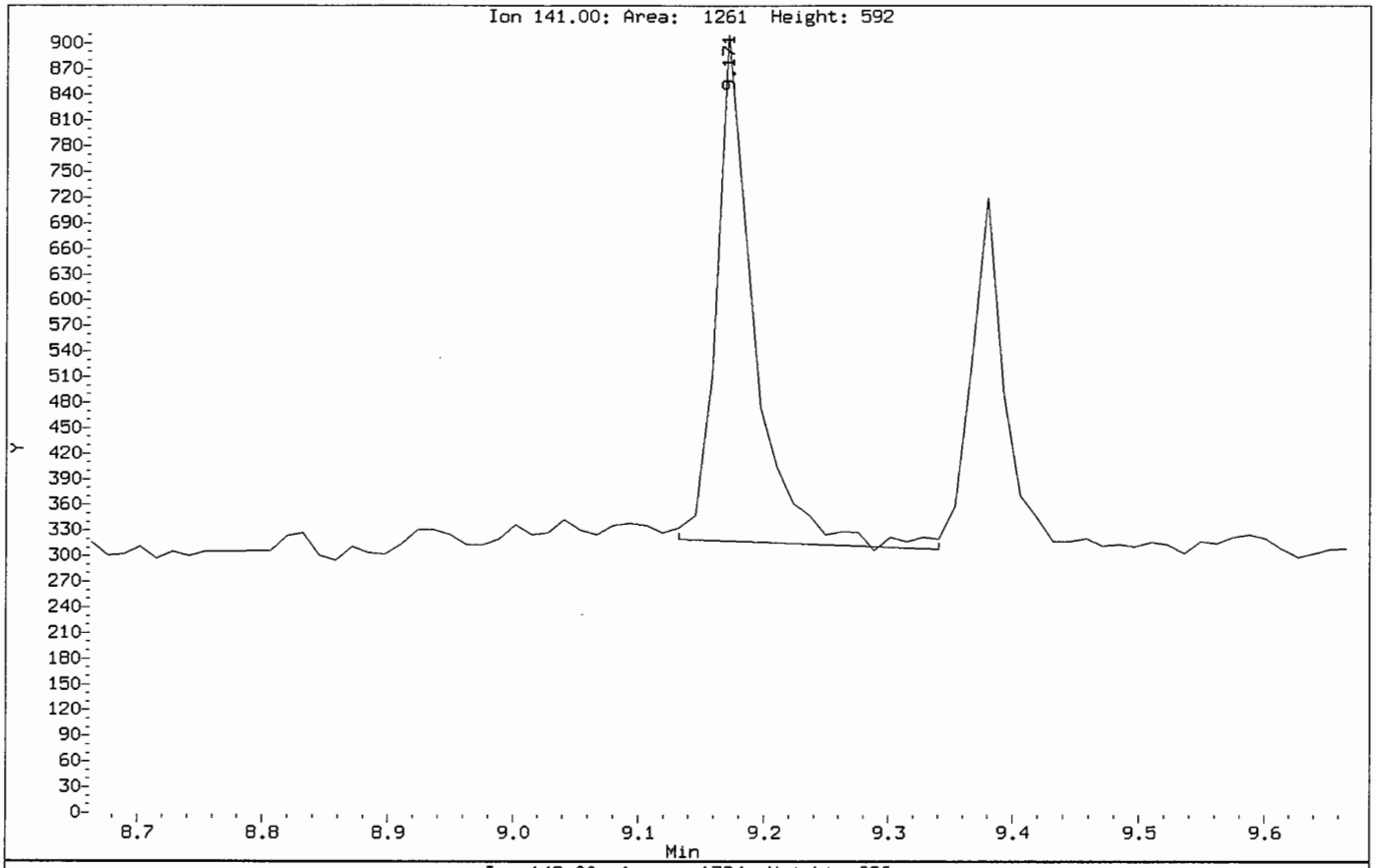
Compound: Naphthalene
CAS Number: 91-20-3

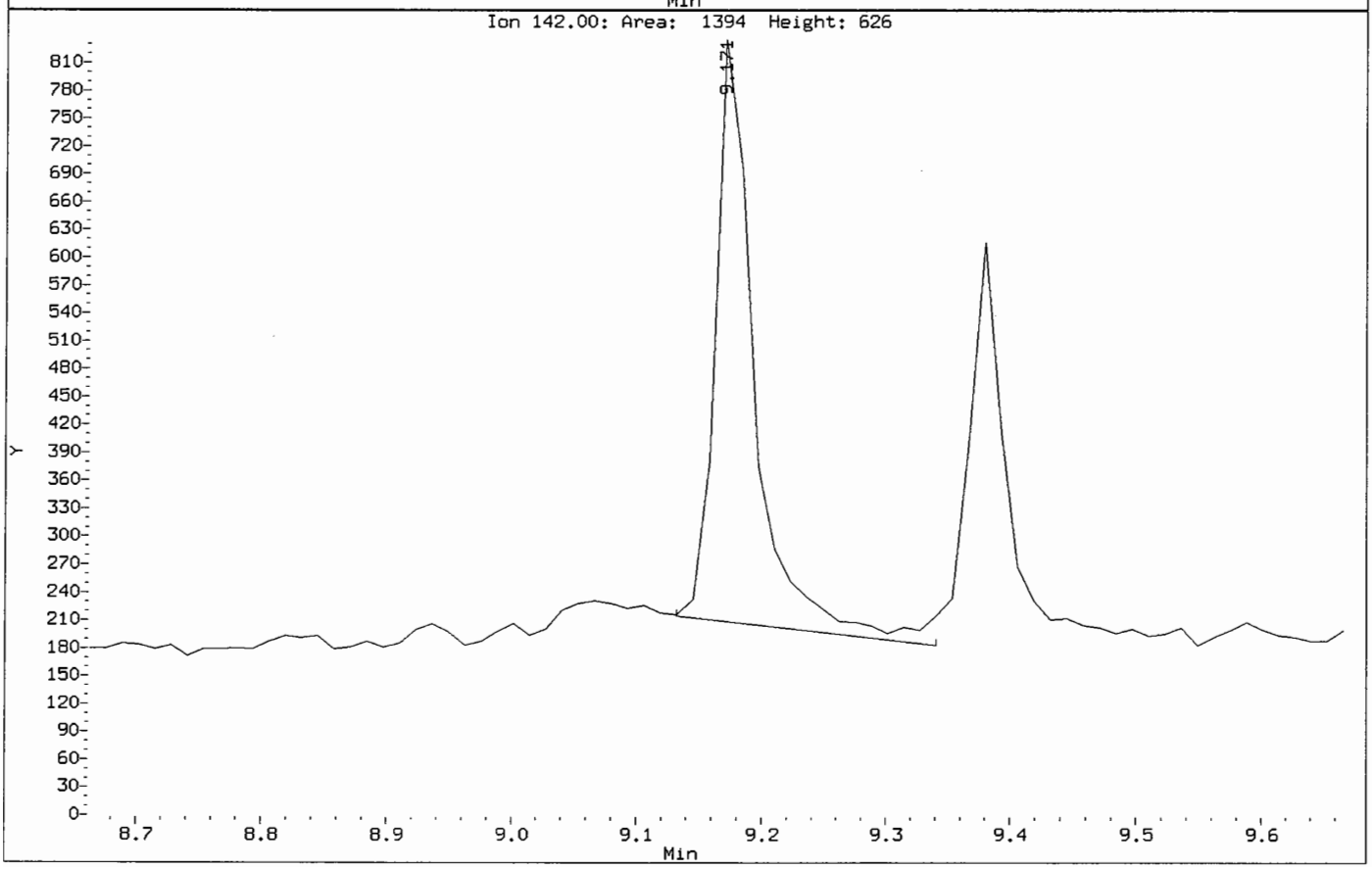




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-04JA66.d
Injection Date: 26-MAY-2010 20:17
Instrument: 5972hp66.i
Client Sample ID: SB77-3.5-4.5RE

Compound: 2-Methylnaphthalene
CAS Number: 91-57-6





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB78-3.5-4.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-02C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 14 decanted: (Y/N) N Date Extracted:05/20/10

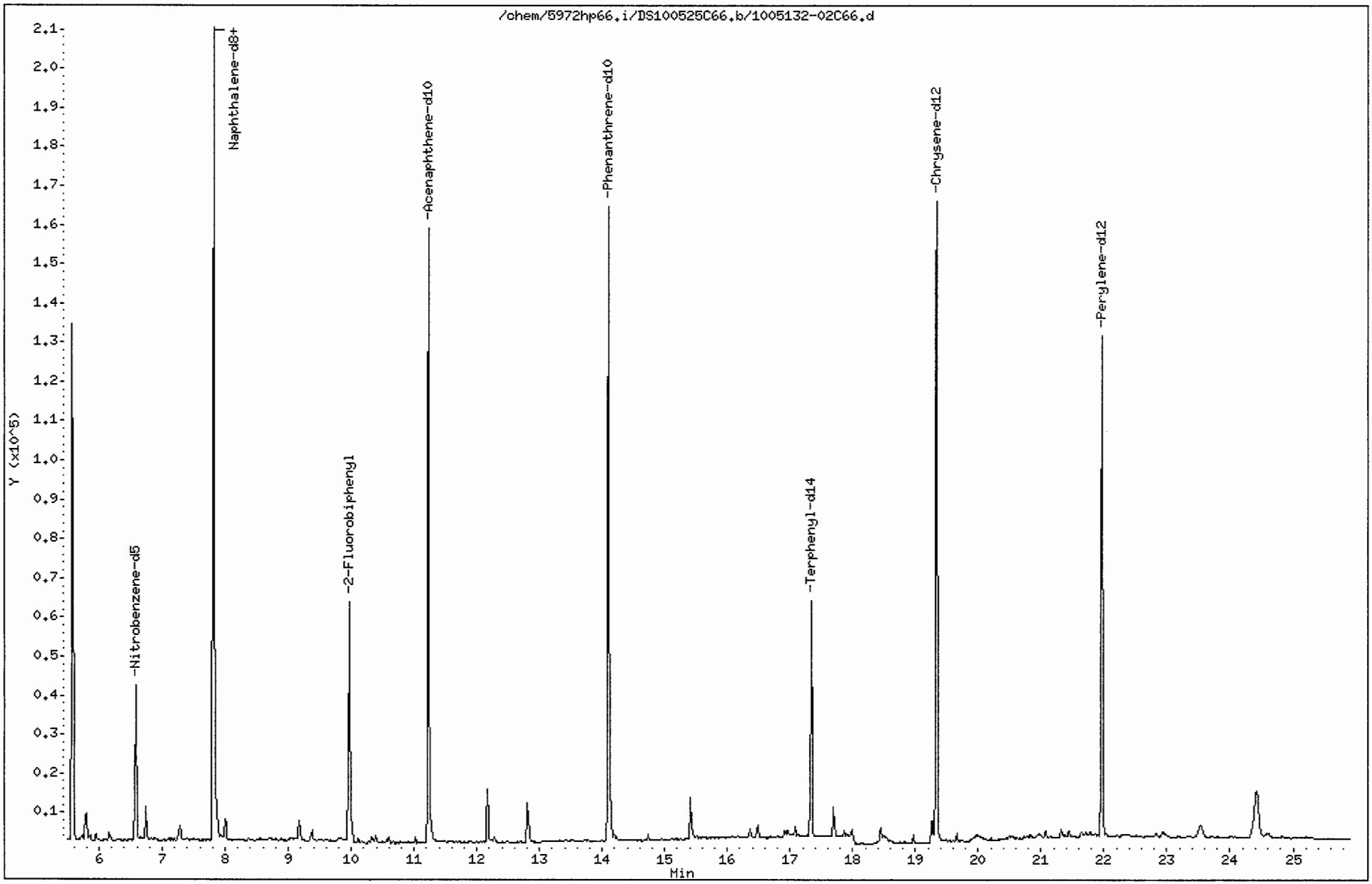
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.2	J
91-57-6	2-Methylnaphthalene	0.86	J
208-96-8	Acenaphthylene	9.7	U
83-32-9	Acenaphthene	9.7	U
86-73-7	Fluorene	9.7	U
85-01-8	Phenanthrene	9.7	U
120-12-7	Anthracene	9.7	U
206-44-0	Fluoranthene	9.7	U
129-00-0	Pyrene	9.7	U
56-55-3	Benzo(a)anthracene	9.7	U
218-01-9	Chrysene	9.7	U
205-99-2	Benzo(b)fluoranthene	9.7	U
207-08-9	Benzo(k)fluoranthene	9.7	U
50-32-8	Benzo(a)pyrene	9.7	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.7	U
53-70-3	Dibenzo(a,h)anthracene	9.7	U
191-24-2	Benzo(g,h,i)perylene	9.7	U

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-02C66.d
Date : 26-MAY-2010 14:09
Client ID: SB78-3.5-4.5
Instrument: 5972hp66.i
Sample Info: 1005132-02:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/1005132-02C66.d
Report Date: 01-Jun-2010 18:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/1005132-02C66.d
Lab Smp Id: 1005132-02 Client Smp ID: SB78-3.5-4.5
Inj Date : 26-MAY-2010 14:09
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-02:2730
Misc Info : SB78-3.5-4.5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 18:08 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	14.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.573	5.560	(1.000)	78036	2.00000	
* 2 Naphthalene-d8	136	7.815	7.802	(1.000)	274861	2.00000	
* 3 Acenaphthene-d10	164	11.231	11.231	(1.000)	120571	2.00000	
* 4 Phenanthrene-d10	188	14.100	14.101	(1.000)	225769	2.00000	
* 5 Chrysene-d12	240	19.336	19.336	(1.000)	217450	2.00000	
* 6 Perylene-d12	264	21.961	21.961	(1.000)	174813	2.00000	
$ 9 Nitrobenzene-d5	82	6.576	6.563	(0.842)	46636	0.76250	15
$ 10 2-Fluorobiphenyl	172	9.965	9.966	(0.887)	91935	0.73070	14
$ 12 Terphenyl-d14	244	17.346	17.347	(0.897)	77152	0.97650	19
13 Naphthalene	128	7.854	7.841	(1.005)	10422	0.06130	1.2(a)
15 2-Methylnaphthalene	141	9.170	9.170	(0.817)	3825	0.04431	0.86(a)
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-02C66.d
Report Date: 01-Jun-2010 18:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-02C66.d

Date : 26-MAY-2010 14:09

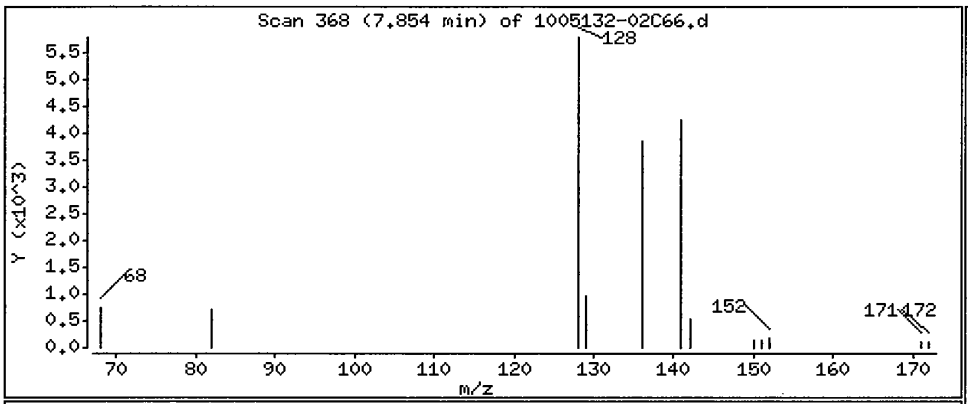
Client ID: SB78-3.5-4.5 Instrument: 5972hp66.i

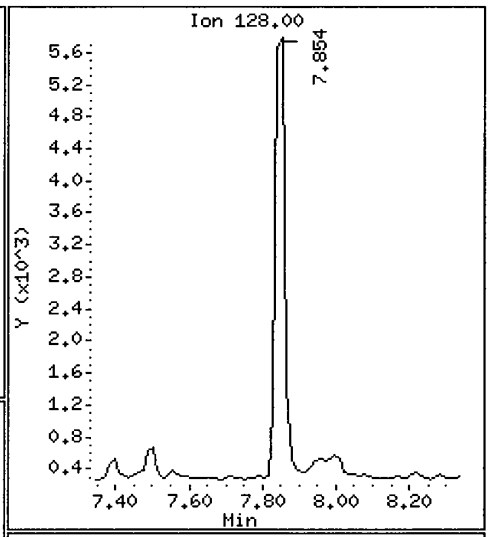
Sample Info: 1005132-02:2730

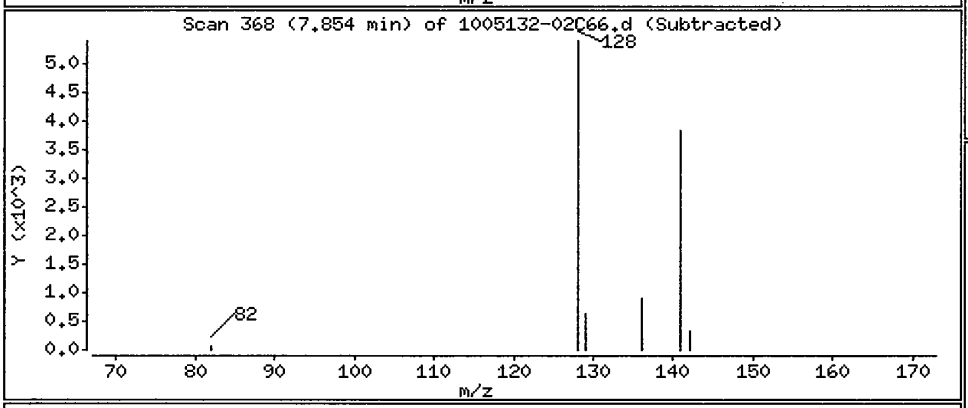
Volume Injected (uL): 2.0 Operator: 2730

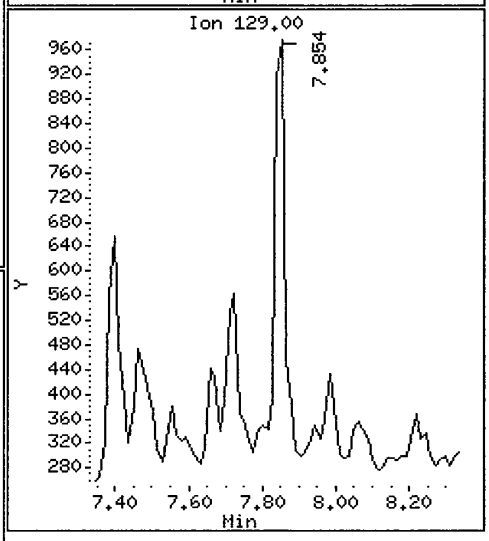
Column phase: Rtx-5MS Column diameter: 0.32

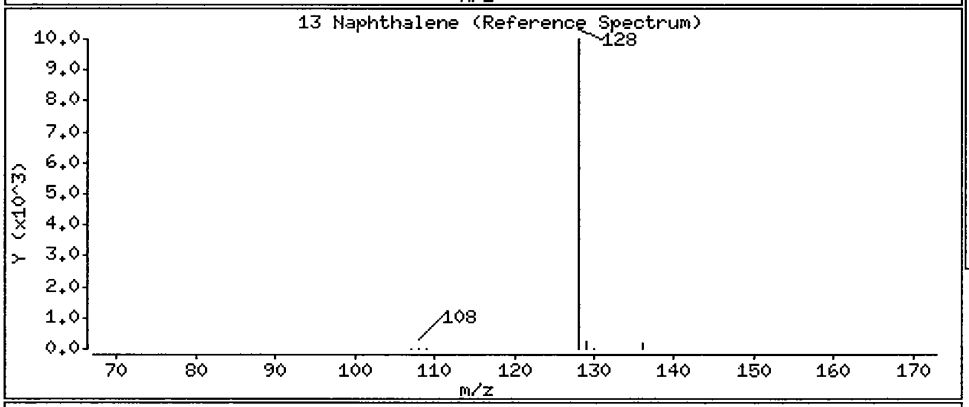
13 Naphthalene Concentration: 1.2 ug/Kg

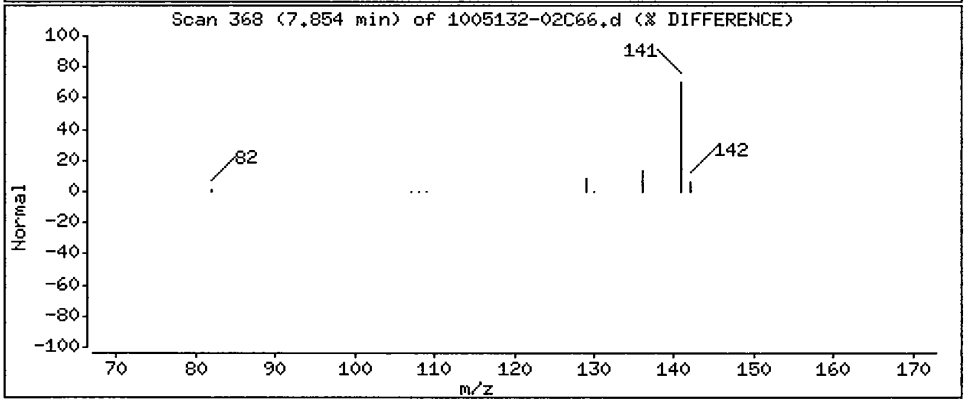












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-02C66.d

Date : 26-MAY-2010 14:09

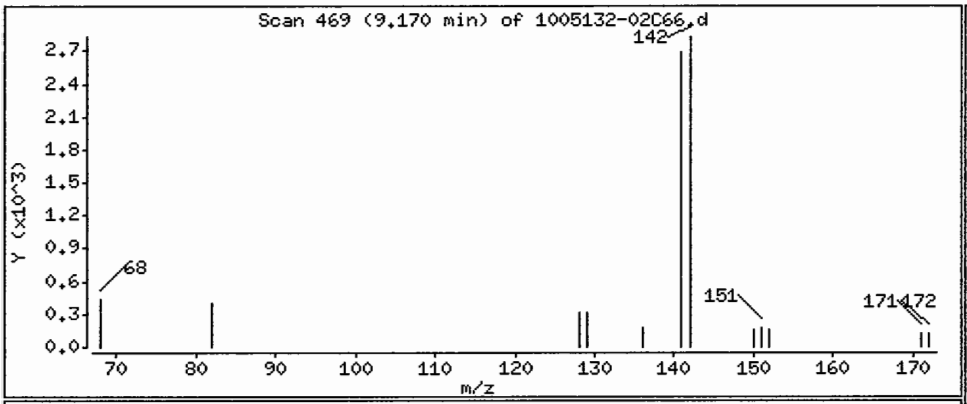
Client ID: SB78-3.5-4.5 Instrument: 5972hp66.i

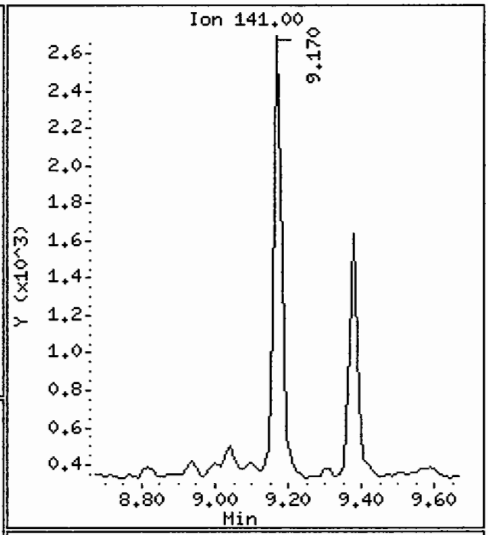
Sample Info: 1005132-02:2730

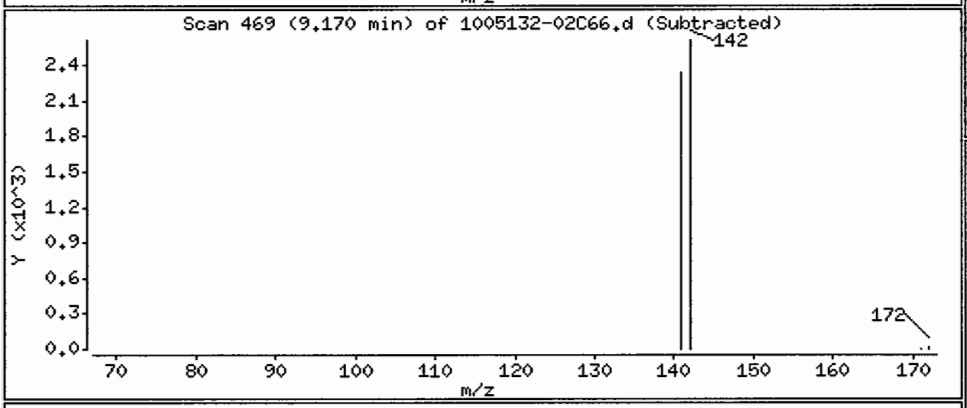
Volume Injected (uL): 2.0 Operator: 2730

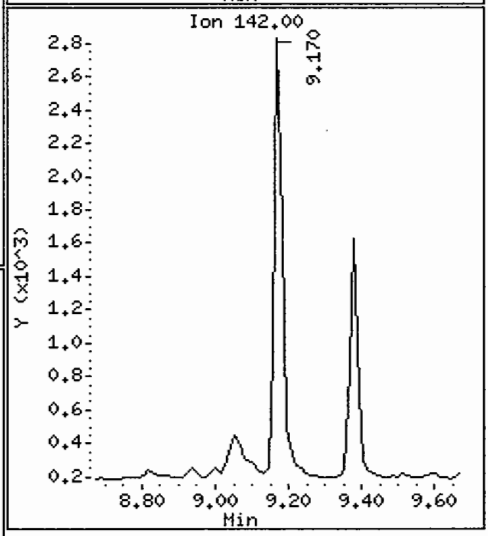
Column phase: Rtx-5MS Column diameter: 0.32

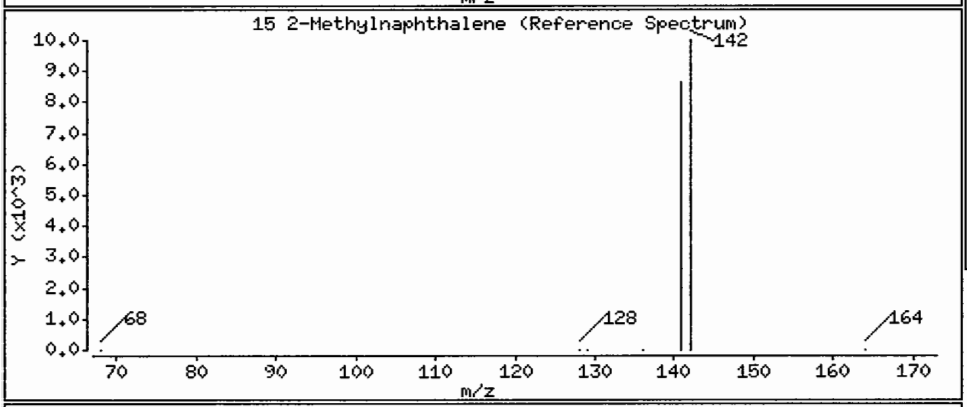
15 2-Methylnaphthalene Concentration: 0.86 ug/Kg

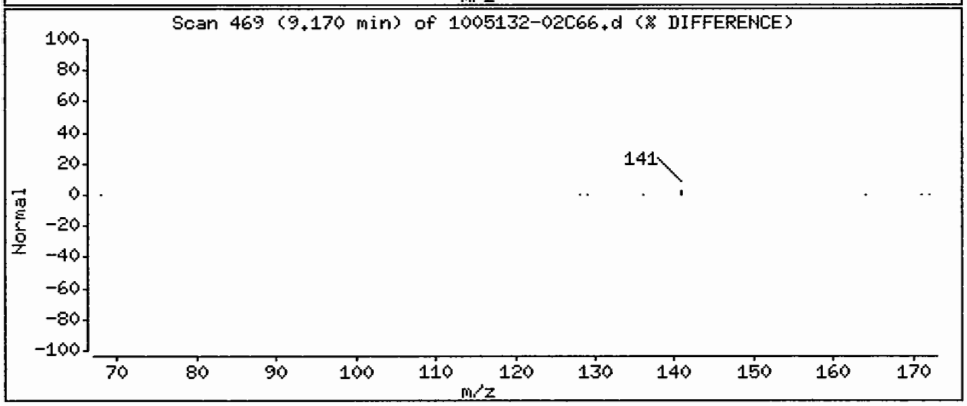












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB79-11-12

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-06C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

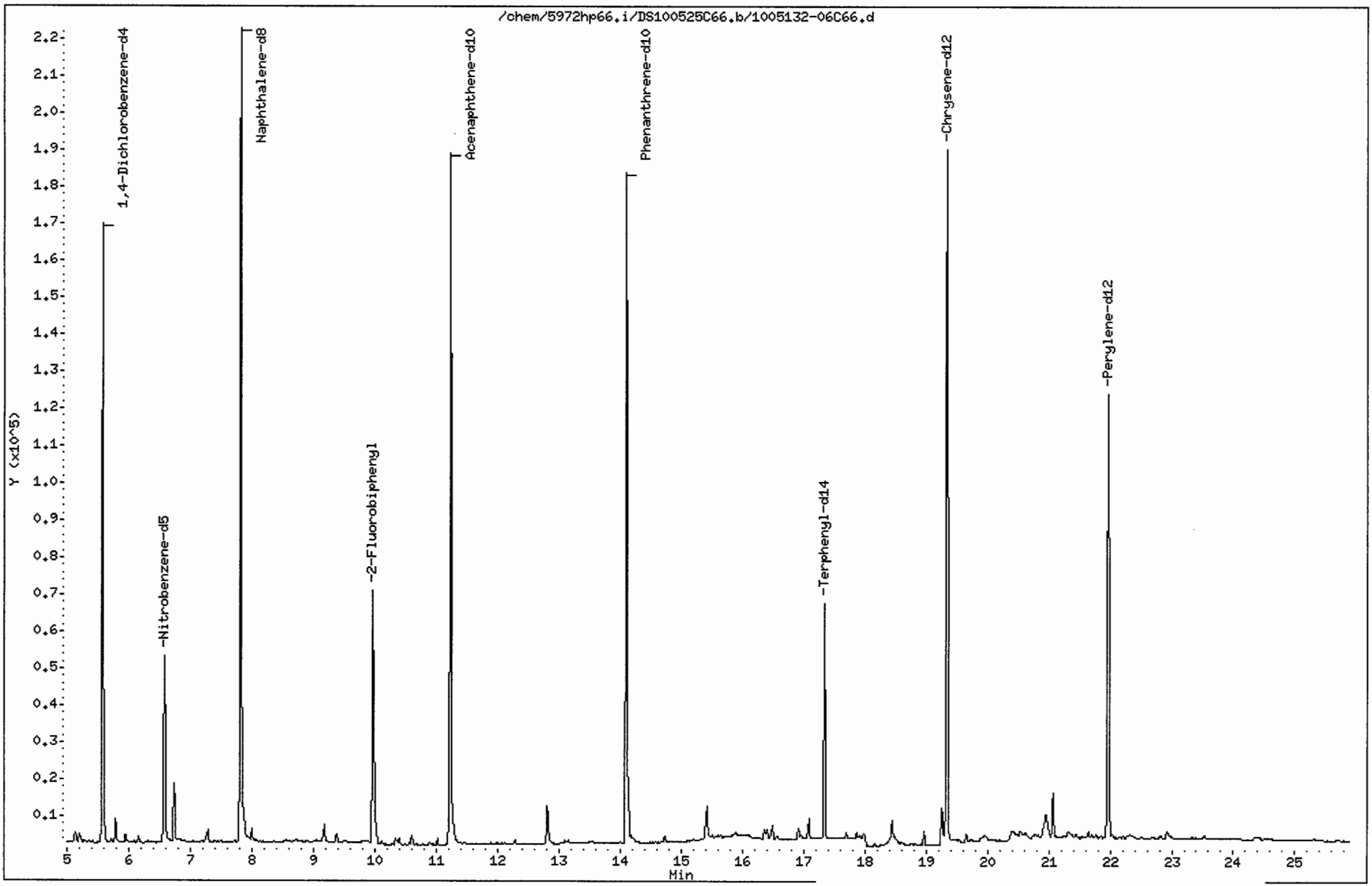
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-06C66.d
Date : 26-MAY-2010 16:25
Client ID: SB79-11-12
Sample Info: 1005132-06:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/1005132-06C66.d
Report Date: 03-Jun-2010 17:54

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/1005132-06C66.d
Lab Smp Id: 1005132-06 Client Smp ID: SB79-11-12
Inj Date : 26-MAY-2010 16:25
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-06:2730
Misc Info : SB79-11-12
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 18:08 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.575	5.560	(1.000)	93334	2.00000		(a)
* 2 Naphthalene-d8	136	7.817	7.802	(1.000)	328636	2.00000		(a)
* 3 Acenaphthene-d10	164	11.230	11.231	(1.000)	148454	2.00000		(a)
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	265338	2.00000		(a)
* 5 Chrysene-d12	240	19.336	19.336	(1.000)	244407	2.00000		(a)
* 6 Perylene-d12	264	21.972	21.961	(1.000)	181962	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.579	6.563	(0.842)	53192	0.72738	15	
$ 10 2-Fluorobiphenyl	172	9.968	9.966	(0.888)	99443	0.64192	13	
$ 12 Terphenyl-d14	244	17.348	17.347	(0.897)	80554	0.90710	18	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

6/3/10
MJ

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-06C66.d
Report Date: 03-Jun-2010 17:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB79-11-12RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-06JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted:05/20/10

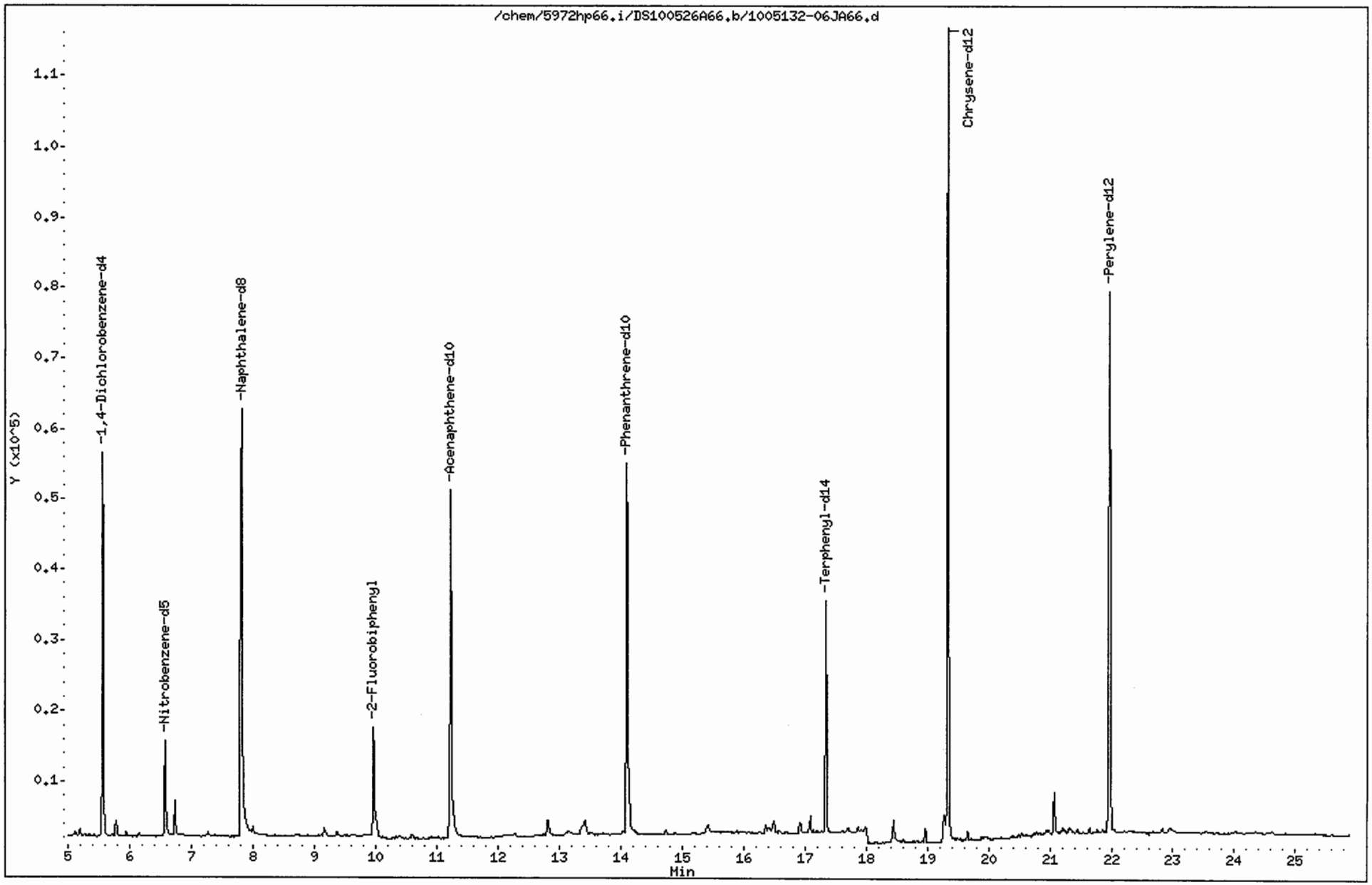
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-06JA66.d
Date : 26-MAY-2010 23:18
Client ID: SB79-11-12RE
Instrument: 5972hp66.i
Sample Info: 1005132-06:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526A66.b/1005132-06JA66.d
Report Date: 03-Jun-2010 16:30

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526A66.b/1005132-06JA66.d
Lab Smp Id: 1005132-06 Client Smp ID: SB79-11-12RE
Inj Date : 26-MAY-2010 23:18
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-06:2730
Misc Info : SB79-11-12
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 15:45 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.558	5.558	(1.000)	32408	2.00000	(a)
*	2 Naphthalene-d8	136	7.813	7.813	(1.000)	95813	2.00000	(a)
*	3 Acenaphthene-d10	164	11.230	11.231	(1.000)	45579	2.00000	(a)
*	4 Phenanthrene-d10	188	14.101	14.099	(1.000)	87329	2.00000	(a)
*	5 Chrysene-d12	240	19.336	19.336	(1.000)	153253	2.00000	(a)
*	6 Perylene-d12	264	21.972	21.973	(1.000)	112991	2.00000	(a)
$	9 Nitrobenzene-d5	82	6.575	6.575	(0.841)	15632	0.73320	15
$	10 2-Fluorobiphenyl	172	9.964	9.964	(0.887)	27150	0.57083	11
$	12 Terphenyl-d14	244	17.347	17.346	(0.897)	40750	0.73182	15
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

6/3/10 MT

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-06JA66.d
Report Date: 03-Jun-2010 16:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB81-5-6

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-16JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 7 decanted: (Y/N) N Date Extracted:05/24/10

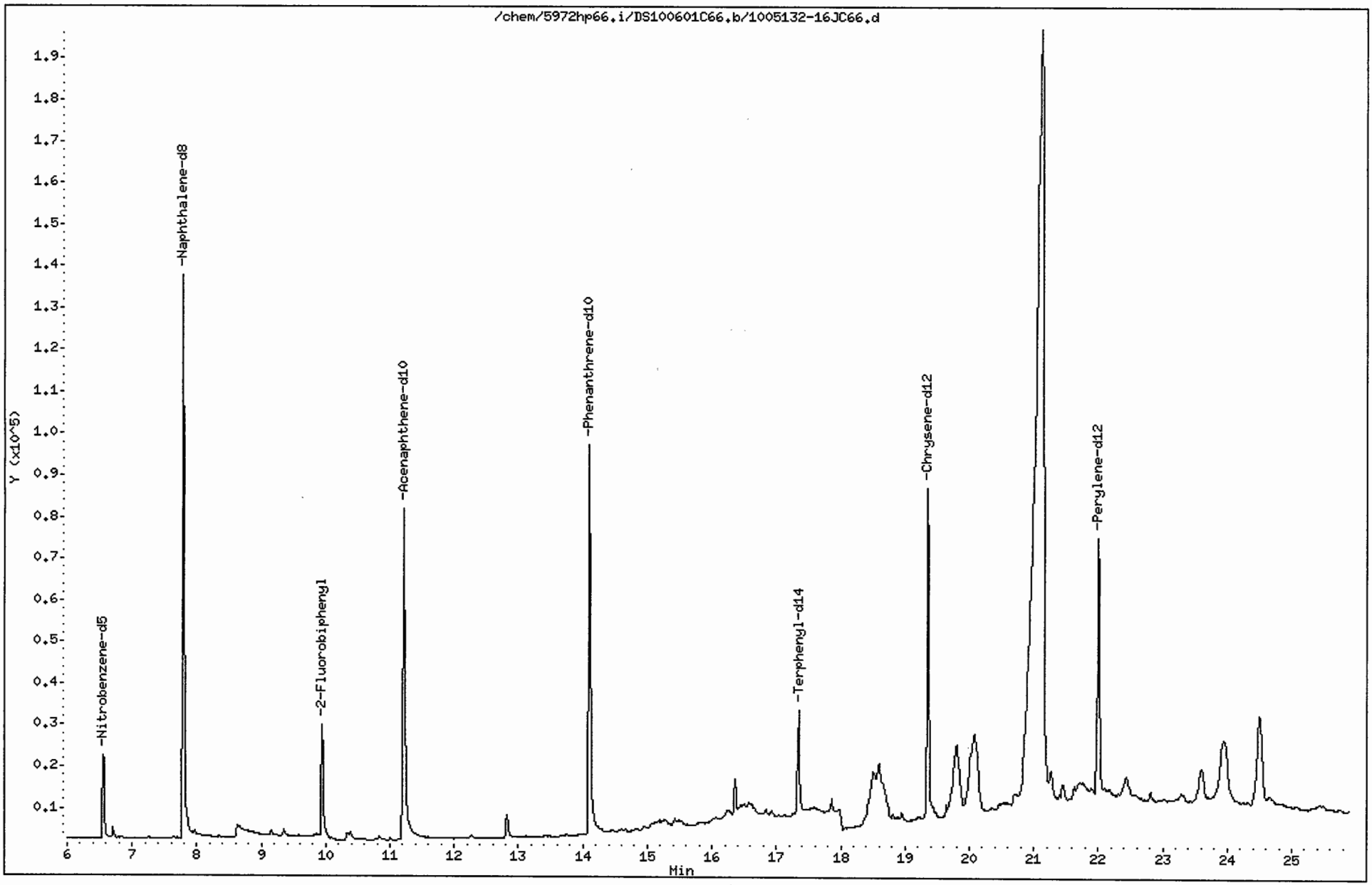
Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.9	U
91-57-6	2-Methylnaphthalene	8.9	U
208-96-8	Acenaphthylene	8.9	U
83-32-9	Acenaphthene	8.9	U
86-73-7	Fluorene	8.9	U
85-01-8	Phenanthrene	8.9	U
120-12-7	Anthracene	8.9	U
206-44-0	Fluoranthene	8.9	U
129-00-0	Pyrene	8.9	U
56-55-3	Benzo(a)anthracene	8.9	U
218-01-9	Chrysene	8.9	U
205-99-2	Benzo(b)fluoranthene	8.9	U
207-08-9	Benzo(k)fluoranthene	8.9	U
50-32-8	Benzo(a)pyrene	8.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.9	U
53-70-3	Dibenzo(a,h)anthracene	8.9	U
191-24-2	Benzo(g,h,i)perylene	8.9	U

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-16JC66.d
Date : 02-JUN-2010 02:47
Client ID: SB81-5-6
Instrument: 5972hp66.i
Sample Info: 1005132-16:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601C66.b/1005132-16JC66.d
Report Date: 07-Jun-2010 11:48

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601C66.b/1005132-16JC66.d
Lab Smp Id: 1005132-16 Client Smp ID: SB81-5-6
Inj Date : 02-JUN-2010 02:47
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-16:2743
Misc Info : SB81-5-6
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601C66.b/SIM_8270Cv2DOD.m
Meth Date : 07-Jun-2010 10:54 mead Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	7.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.560	5.534	(1.000)	61800	2.00000	
*	2 Naphthalene-d8	136	7.789	7.789	(1.000)	210014	2.00000	
*	3 Acenaphthene-d10	164	11.217	11.205	(1.000)	95234	2.00000	
*	4 Phenanthrene-d10	188	14.101	14.100	(1.000)	165888	2.00000	
*	5 Chrysene-d12	240	19.354	19.354	(1.000)	125453	2.00000	
*	6 Perylene-d12	264	21.993	21.994	(1.000)	112790	2.00000	
$	9 Nitrobenzene-d5	82	6.550	6.537	(0.841)	28648	0.61303	11
$	10 2-Fluorobiphenyl	172	9.940	9.940	(0.886)	42055	0.42318	7.6(R)
$	12 Terphenyl-d14	244	17.347	17.346	(0.896)	34740	0.76214	14
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

PM 6/8/10

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-16JC66.d
Report Date: 07-Jun-2010 11:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB83-6.5-7.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-08J2C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 15 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

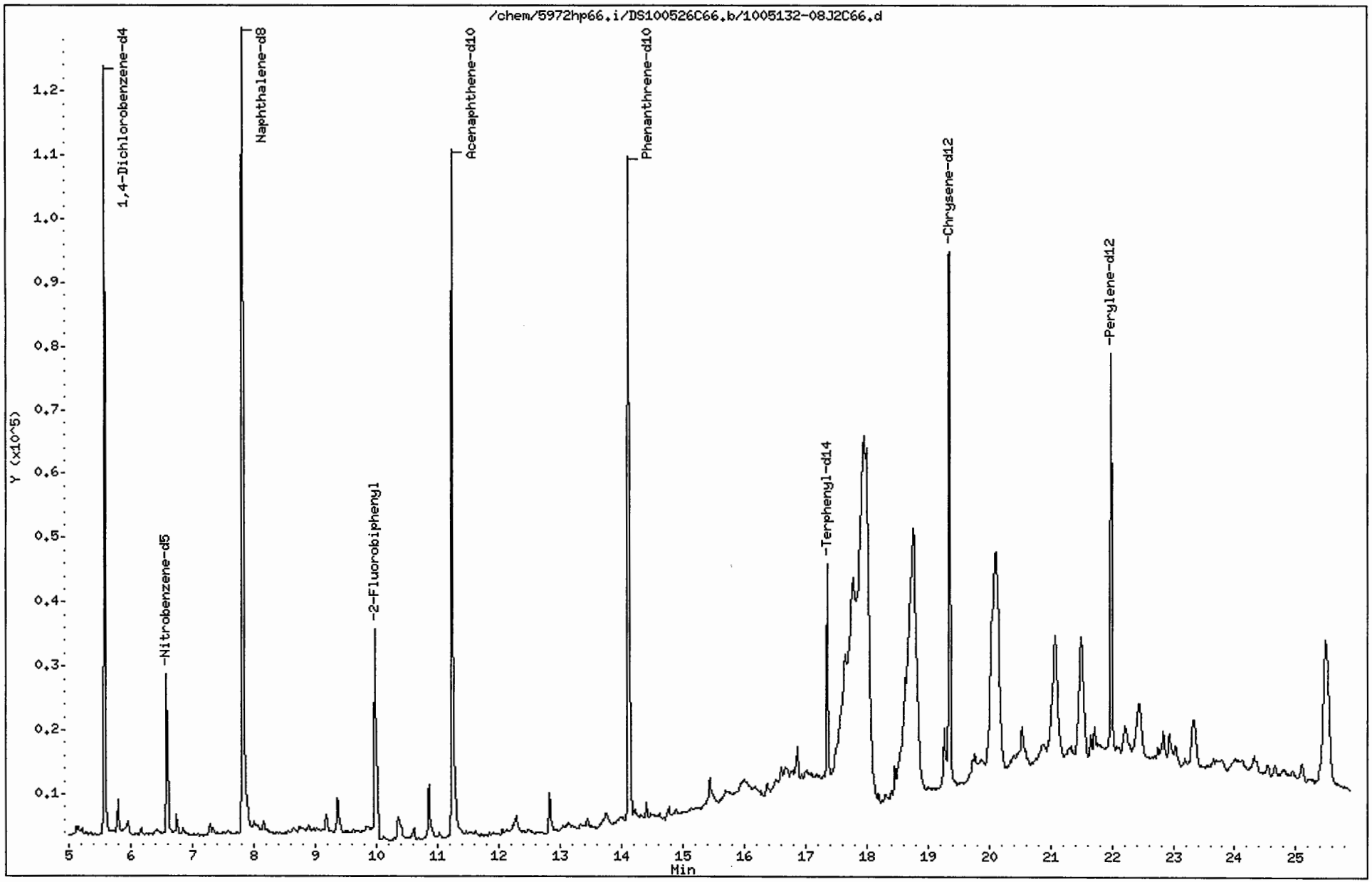
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.8	U
91-57-6	2-Methylnaphthalene	9.8	U
208-96-8	Acenaphthylene	9.8	U
83-32-9	Acenaphthene	9.8	U
86-73-7	Fluorene	9.8	U
85-01-8	Phenanthrene	9.8	U
120-12-7	Anthracene	9.8	U
206-44-0	Fluoranthene	9.8	U
129-00-0	Pyrene	9.8	U
56-55-3	Benzo(a)anthracene	9.8	U
218-01-9	Chrysene	9.8	U
205-99-2	Benzo(b)fluoranthene	9.8	U
207-08-9	Benzo(k)fluoranthene	9.8	U
50-32-8	Benzo(a)pyrene	9.8	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.8	U
53-70-3	Dibenzo(a,h)anthracene	9.8	U
191-24-2	Benzo(g,h,i)perylene	9.8	U

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-08J2C66.d
Date : 27-MAY-2010 07:49
Client ID: SB83-6.5-7.5
Sample Info: 1005132-08:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526C66.b/1005132-08J2C66.d
Report Date: 03-Jun-2010 14:40

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526C66.b/1005132-08J2C66.d
Lab Smp Id: 1005132-08 Client Smp ID: SB83-6.5-7.5
Inj Date : 27-MAY-2010 07:49
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-08:2743
Misc Info : SB83-6.5-7.5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526C66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 13:52 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	15.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.583	5.570	(1.000)	66279	2.00000	(a)	
* 2 Naphthalene-d8	136	7.825	7.812	(1.000)	205329	2.00000	(a)	
* 3 Acenaphthene-d10	164	11.243	11.243	(1.000)	89007	2.00000	(a)	
* 4 Phenanthrene-d10	188	14.127	14.114	(1.000)	178187	2.00000	(a)	
* 5 Chrysene-d12	240	19.361	19.353	(1.000)	113531	2.00000	(a)	
* 6 Perylene-d12	264	21.993	21.983	(1.000)	88371	2.00000	(aM)	✓
$ 9 Nitrobenzene-d5	82	6.587	6.574	(0.842)	27587	0.60379	12	
$ 10 2-Fluorobiphenyl	172	9.976	9.976	(0.887)	49951	0.53780	11	
$ 12 Terphenyl-d14	244	17.360	17.361	(0.897)	40167	0.97373	19	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

6/3/10 MA

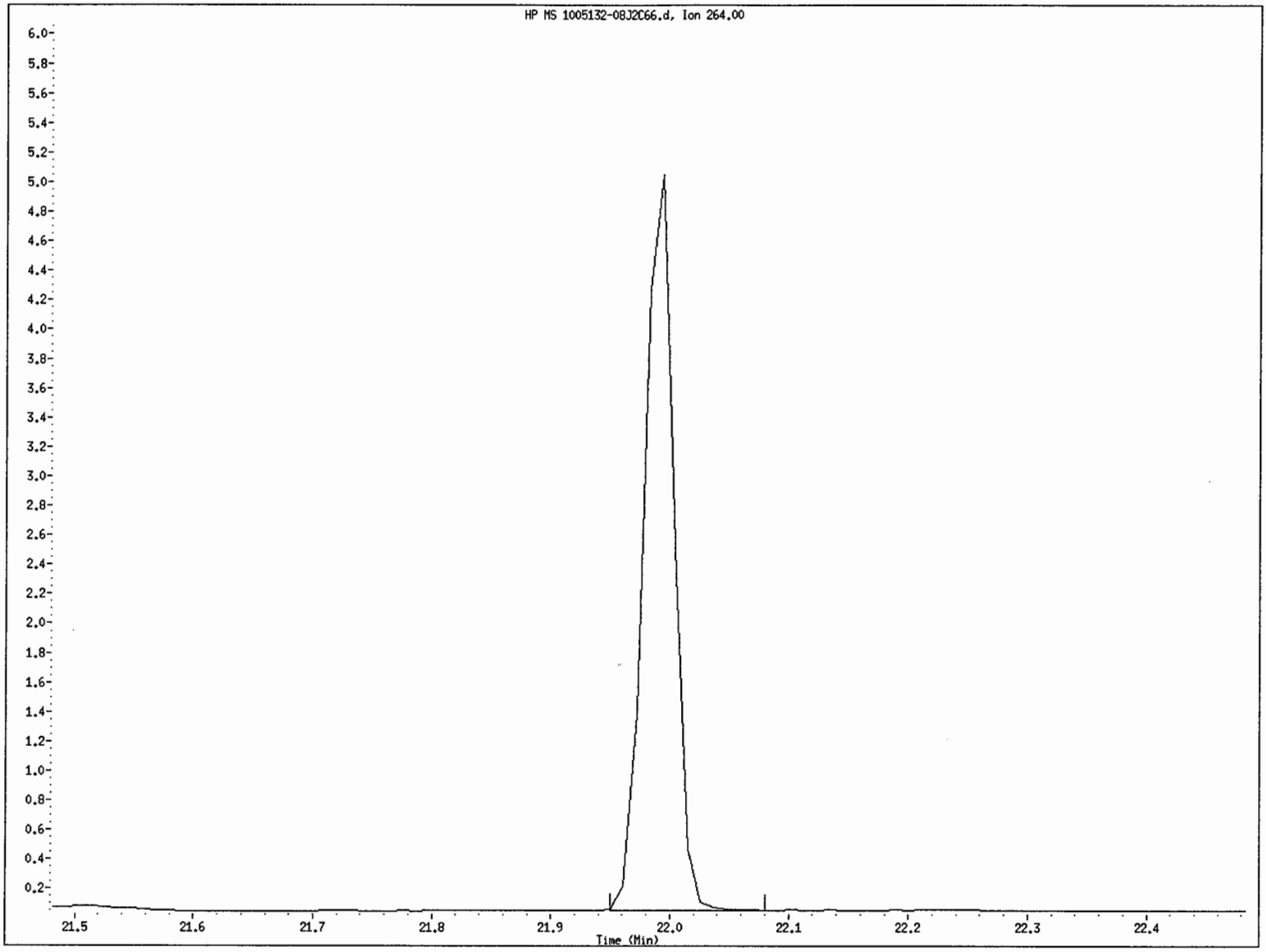
Data File: /chem/5972hp66.i/DS100526C66.b/1005132-08J2C66.d
Report Date: 03-Jun-2010 14:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

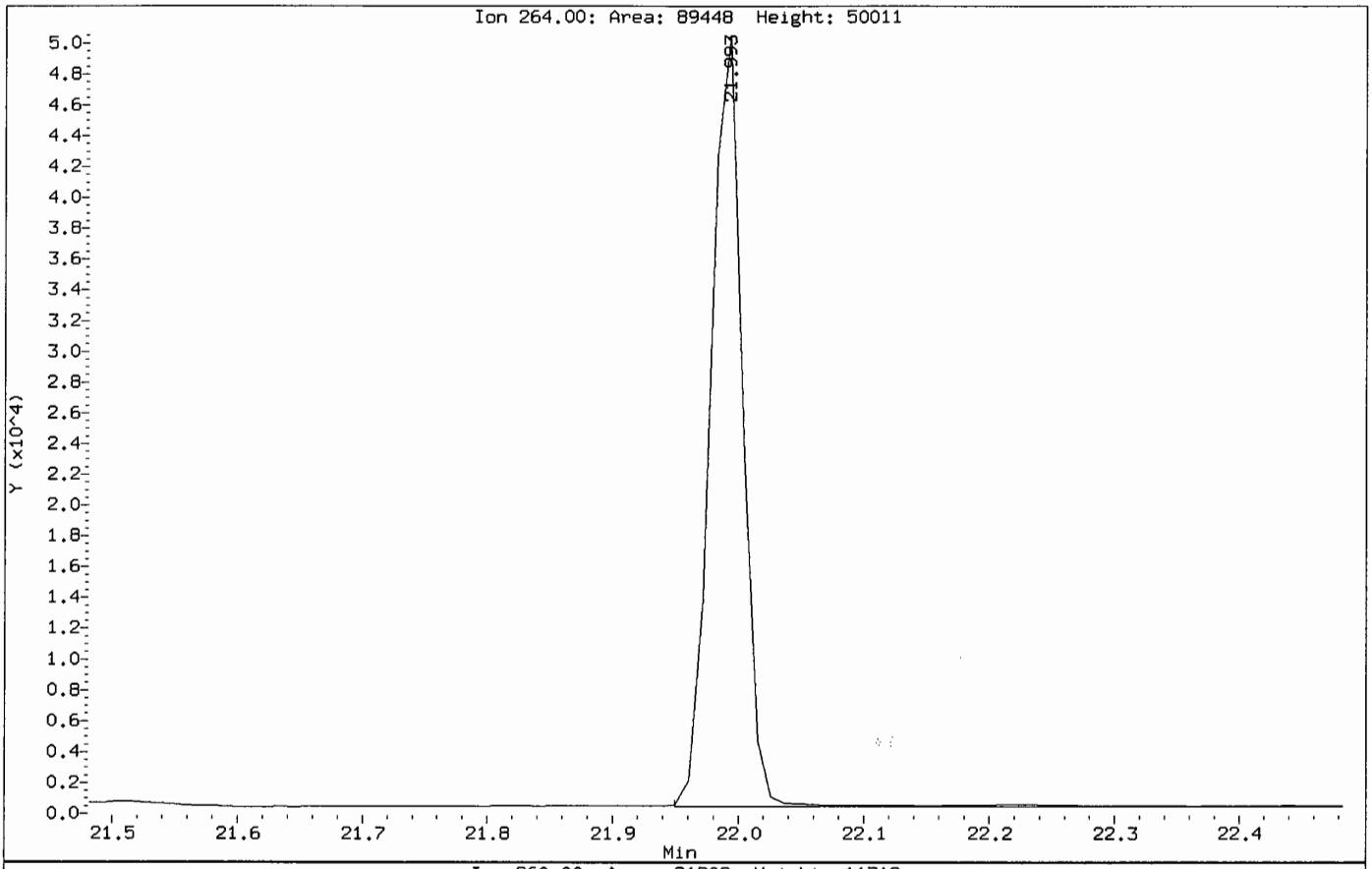
Perylene-d12 CAS Number 1520-96-3 Area = 88371 Manually integrated

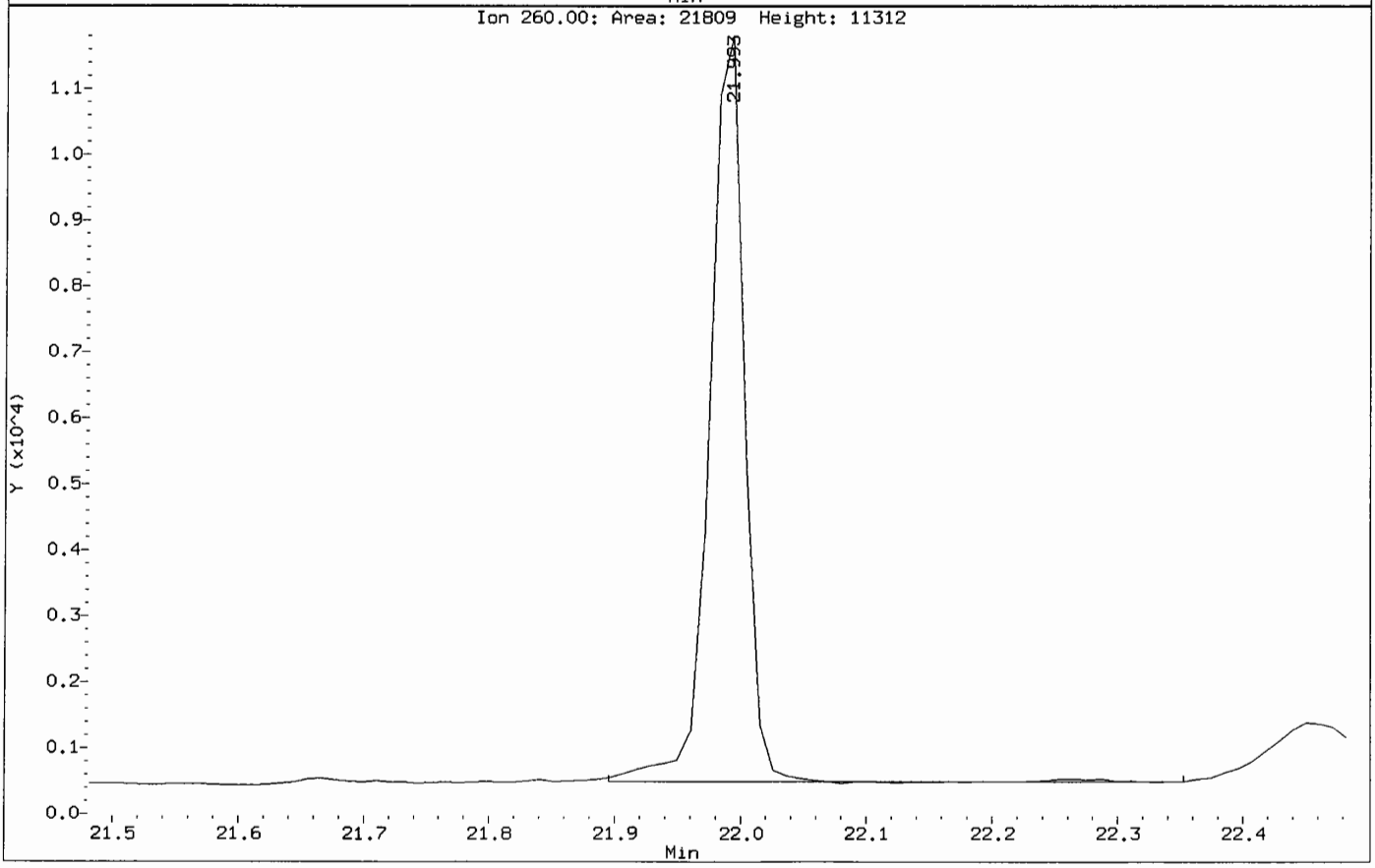


File name: /chem/5972hp66.i/DS100526C66.b/1005132-08J2C66.d
Client ID: SB83-6.5-7.5
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 07:49
Retention Time: 21.99
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-08J2C66.d
Injection Date: 27-MAY-2010 07:49
Instrument: 5972hp66.i
Client Sample ID: SB83-6.5-7.5

Compound: Perylene-d12
CAS Number: 1520-96-3





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB84-6-7

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-14J2C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 18 decanted: (Y/N) N Date Extracted:05/20/10

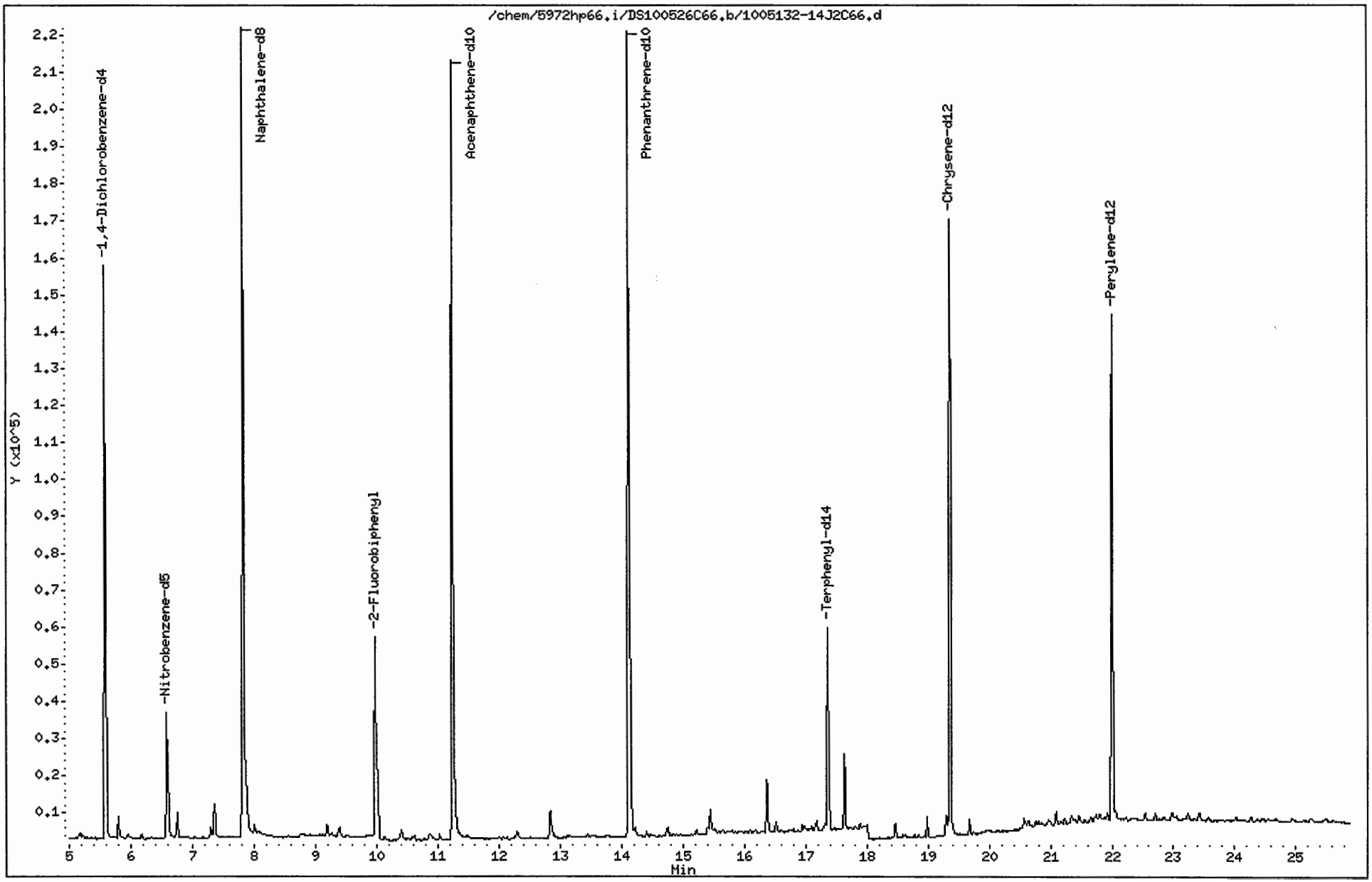
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	U
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-14J2C66.d
Date : 27-MAY-2010 12:21
Client ID: SB84-6-7
Instrument: 5972hp66.i
Sample Info: 1005132-14:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526C66.b/1005132-14J2C66.d
Report Date: 03-Jun-2010 14:40

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526C66.b/1005132-14J2C66.d
Lab Smp Id: 1005132-14 Client Smp ID: SB84-6-7
Inj Date : 27-MAY-2010 12:21
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-14:2743
Misc Info : SB84-6-7
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526C66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 13:52 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	18.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.586	5.570	(1.000)	87242	2.00000	
*	2 Naphthalene-d8	136	7.828	7.812	(1.000)	342594	2.00000	
*	3 Acenaphthene-d10	164	11.243	11.243	(1.000)	169913	2.00000	
*	4 Phenanthrene-d10	188	14.127	14.114	(1.000)	334514	2.00000	
*	5 Chrysene-d12	240	19.370	19.353	(1.000)	229321	2.00000	
*	6 Perylene-d12	264	22.005	21.983	(1.000)	186902	2.00000	
$	9 Nitrobenzene-d5	82	6.589	6.574	(0.842)	39371	0.51645	10
$	10 2-Fluorobiphenyl	172	9.978	9.976	(0.887)	83535	0.47113	9.6
$	12 Terphenyl-d14	244	17.373	17.361	(0.897)	79272	0.95139	19
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

6/3/10 JAT

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-14J2C66.d
Report Date: 03-Jun-2010 14:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB85-1.5-2.5

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-01JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted:05/20/10

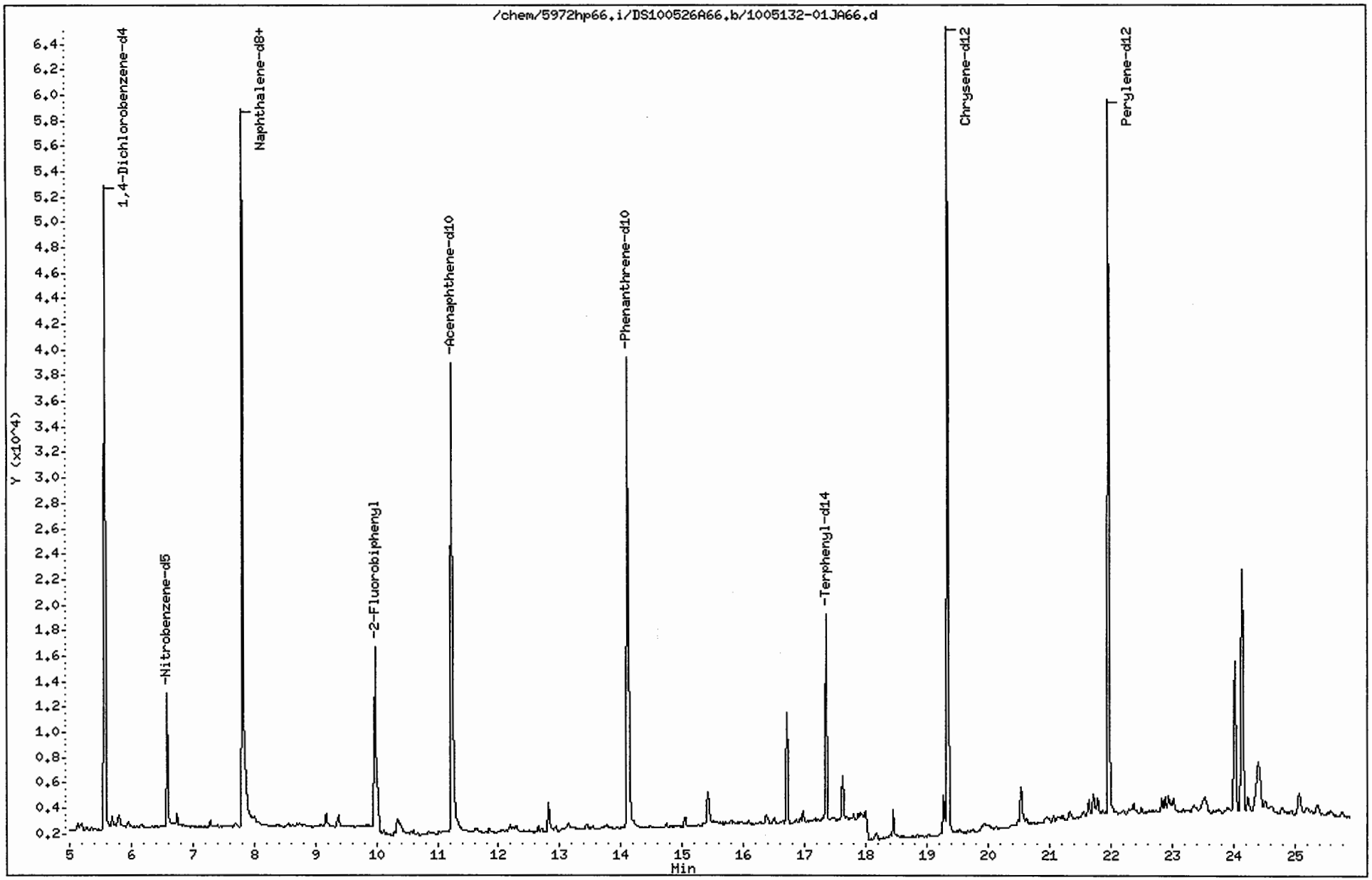
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.1	J
91-57-6	2-Methylnaphthalene	10	U
208-96-8	Acenaphthylene	10	U
83-32-9	Acenaphthene	10	U
86-73-7	Fluorene	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-01JA66.d
Date : 26-MAY-2010 19:09
Client ID: SB85-1.5-2.5
Instrument: 5972hp66.i
Sample Info: 1005132-01:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526A66.b/1005132-01JA66.d
Report Date: 03-Jun-2010 16:30

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526A66.b/1005132-01JA66.d
Lab Smp Id: 1005132-01 Client Smp ID: SB85-1.5-2.5
Inj Date : 26-MAY-2010 19:09
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-01:2730
Misc Info : SB85-1.5-2.5
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 15:45 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1	1,4-Dichlorobenzene-d4	152	5.570	5.558	(1.000)	32048	2.00000		(a)
* 2	Naphthalene-d8	136	7.812	7.813	(1.000)	85762	2.00000		(a)
* 3	Acenaphthene-d10	164	11.229	11.231	(1.000)	37728	2.00000		(a)
* 4	Phenanthrene-d10	188	14.113	14.099	(1.000)	59389	2.00000		(a)
* 5	Chrysene-d12	240	19.345	19.336	(1.000)	87642	2.00000		(a)
* 6	Perylene-d12	264	21.971	21.973	(1.000)	77749	2.00000		(a)
$ 9	Nitrobenzene-d5	82	6.586	6.575	(0.843)	12219	0.64029	13	
$ 10	2-Fluorobiphenyl	172	9.975	9.964	(0.888)	22750	0.57785	12	
$ 12	Terphenyl-d14	244	17.347	17.346	(0.897)	21330	0.66983	13	
13	Naphthalene	128	7.851	7.839	(1.005)	2944	0.05550	1.1	(aM)
15	2-Methylnaphthalene	141	Compound Not Detected.						
17	Acenaphthylene	152	Compound Not Detected.						
18	Acenaphthene	154	Compound Not Detected.						

2 6/3/10 MA

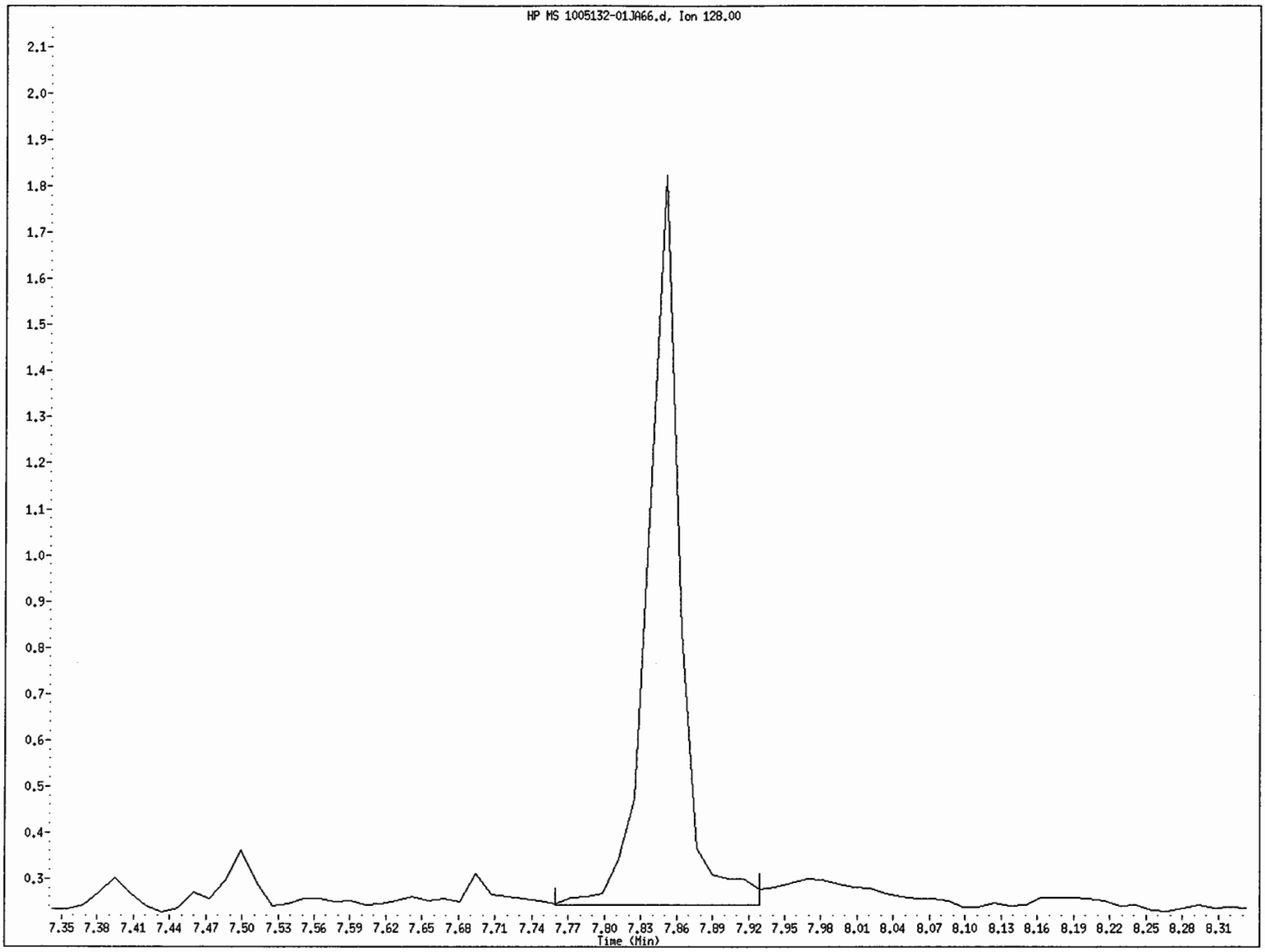
Data File: /chem/5972hp66.i/DS100526A66.b/1005132-01JA66.d
Report Date: 03-Jun-2010 16:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Naphthalene CAS Number 91-20-3 Area = 2944 Manually integrated



File name: /chem/5972hp66.i/DS100526A66.b/1005132-01JA66.d
Client ID: SB85-1.5-2.5
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 19:09
Retention Time: 7.85
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-01JA66.d

Date : 26-MAY-2010 19:09

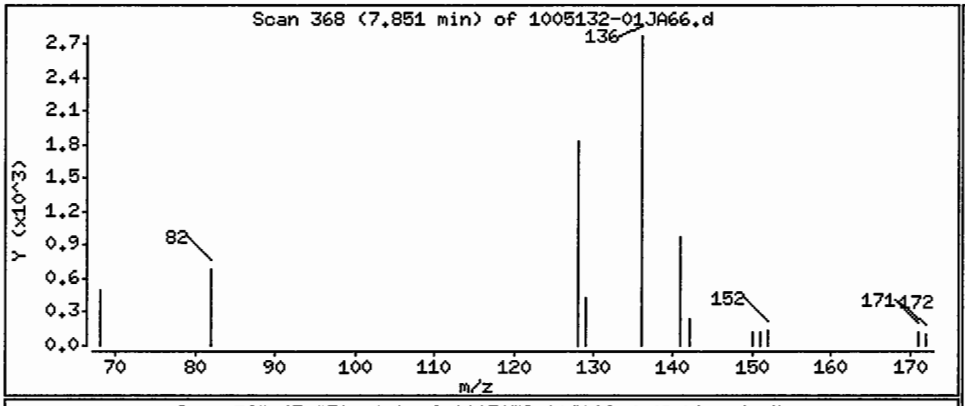
Client ID: SB85-1.5-2.5 Instrument: 5972hp66.i

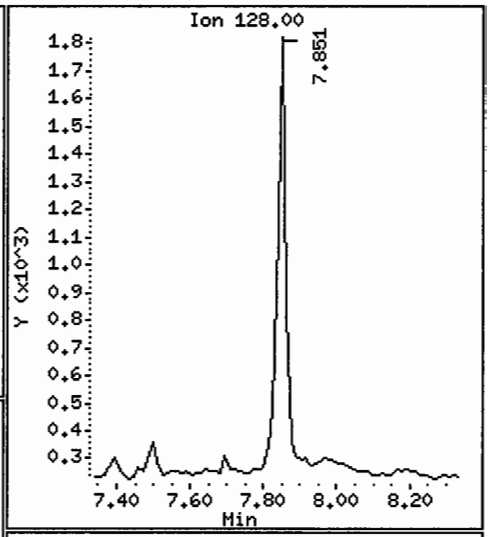
Sample Info: 1005132-01:2730

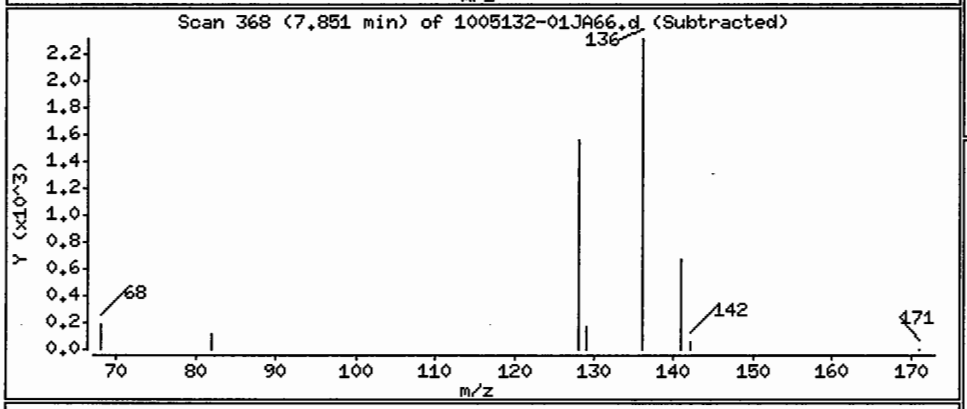
Volume Injected (uL): 2.0 Operator: 2730

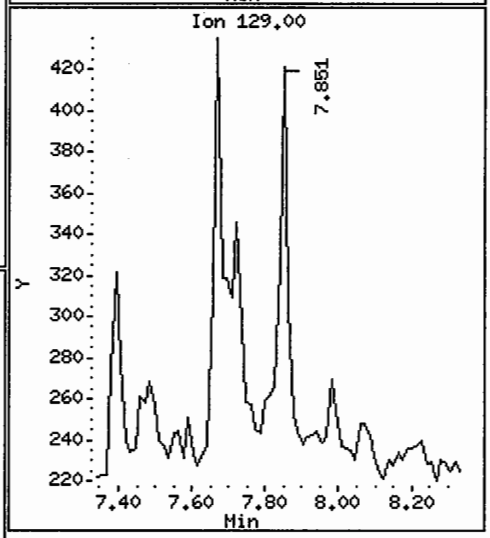
Column phase: Rtx-5MS Column diameter: 0.32

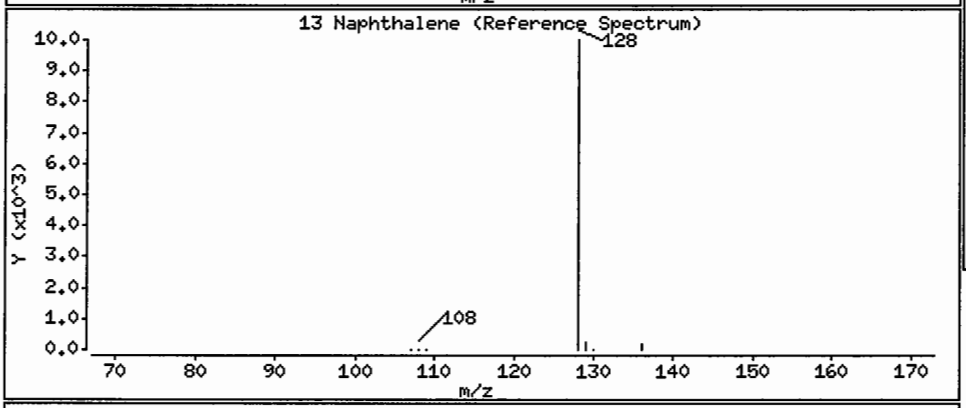
13 Naphthalene Concentration: 1.1 ug/Kg

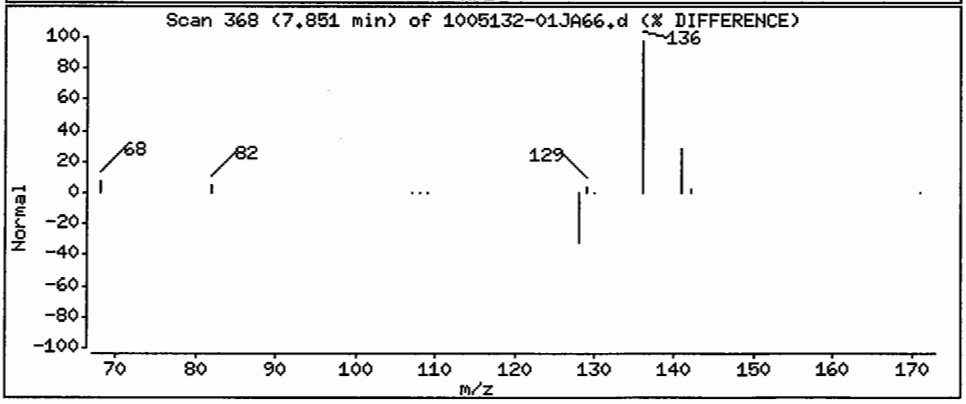






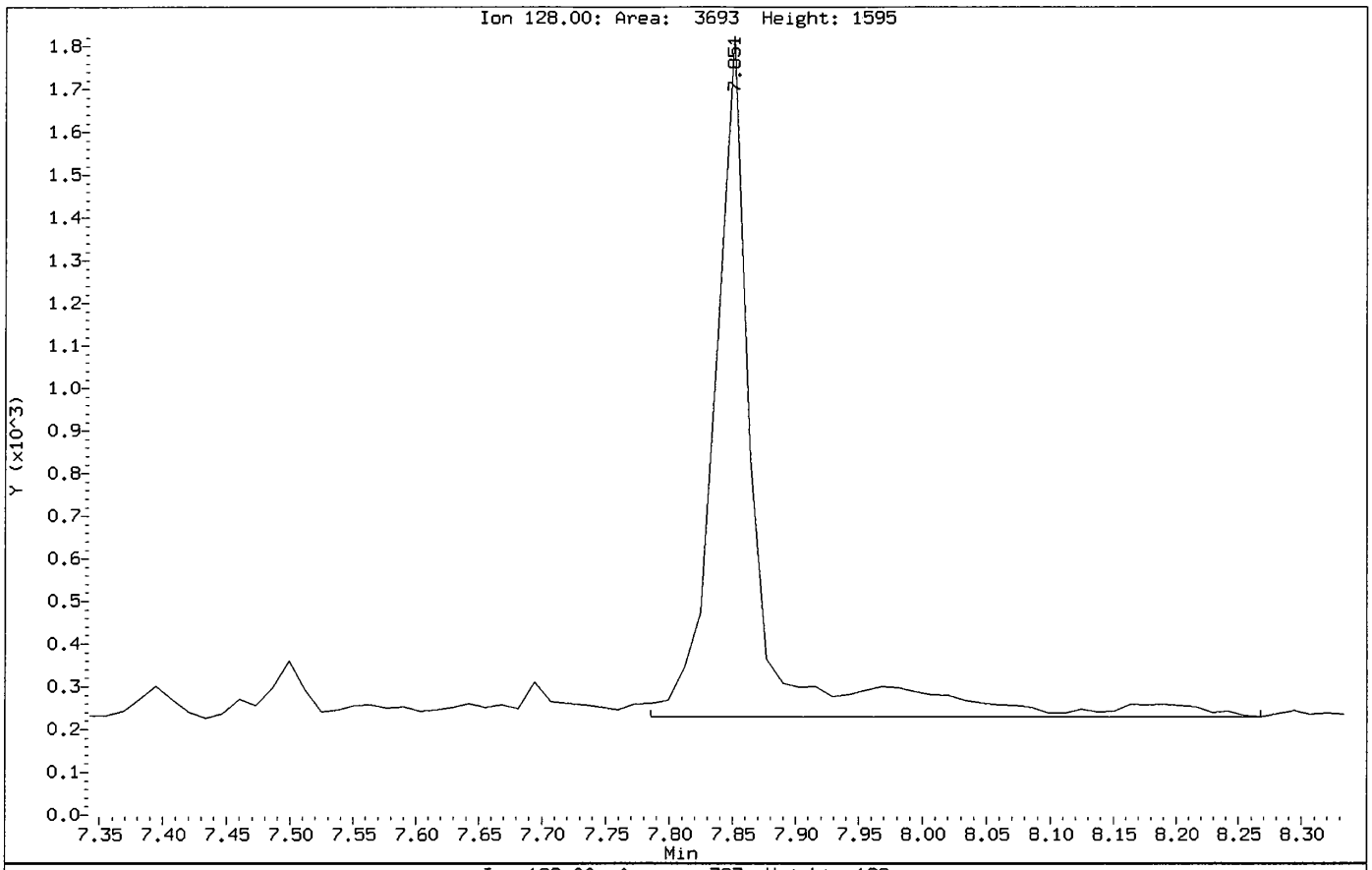


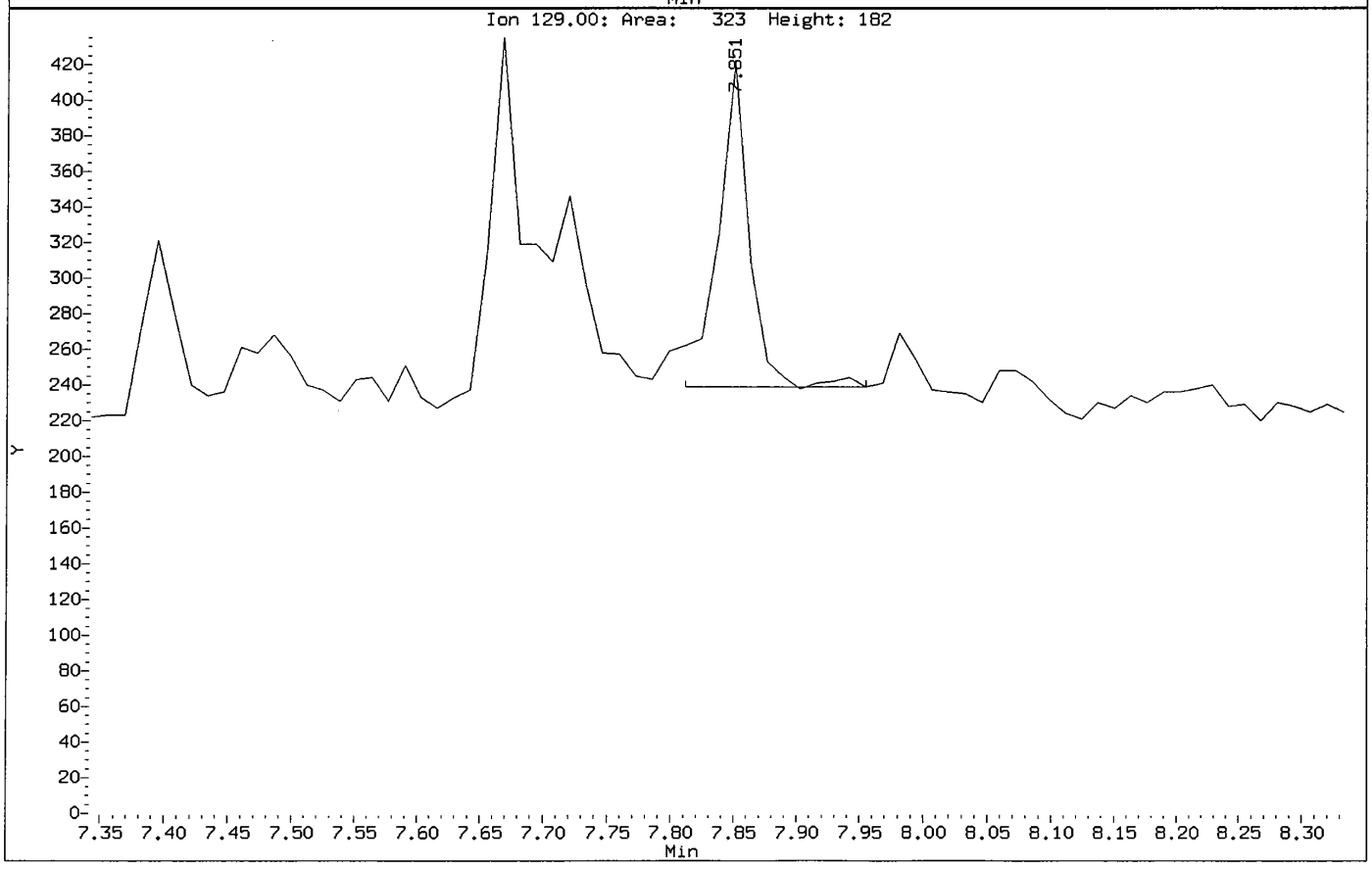




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-01JA66.d
Injection Date: 26-MAY-2010 19:09
Instrument: 5972hp66.i
Client Sample ID: SB85-1.5-2.5

Compound: Naphthalene
CAS Number: 91-20-3





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SB86-3-4

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-12J2C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 16 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

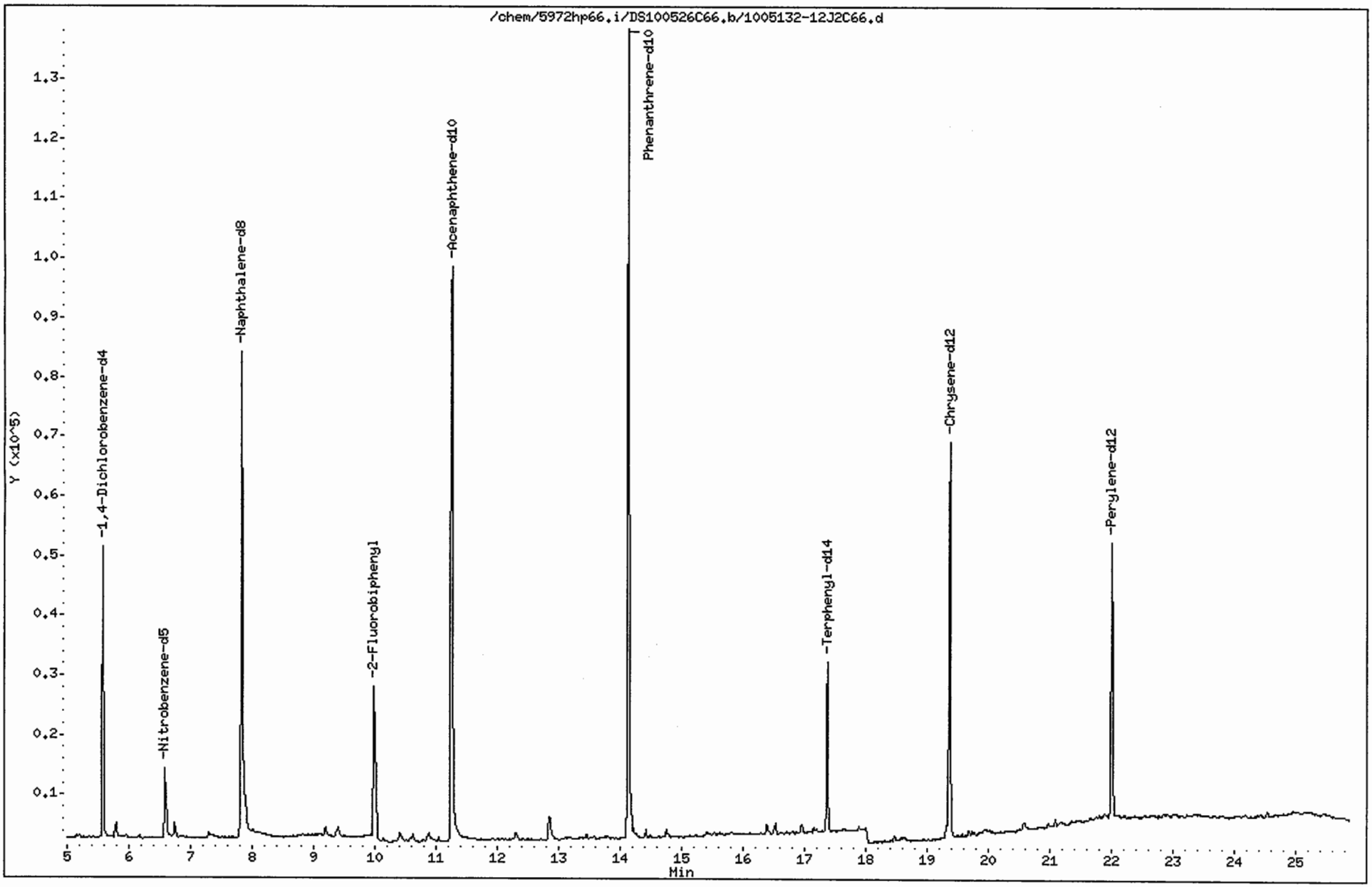
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.9	U
91-57-6	2-Methylnaphthalene	9.9	U
208-96-8	Acenaphthylene	9.9	U
83-32-9	Acenaphthene	9.9	U
86-73-7	Fluorene	9.9	U
85-01-8	Phenanthrene	9.9	U
120-12-7	Anthracene	9.9	U
206-44-0	Fluoranthene	9.9	U
129-00-0	Pyrene	0.68	J
56-55-3	Benzo(a)anthracene	9.9	U
218-01-9	Chrysene	9.9	U
205-99-2	Benzo(b)fluoranthene	9.9	U
207-08-9	Benzo(k)fluoranthene	9.9	U
50-32-8	Benzo(a)pyrene	9.9	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.9	U
53-70-3	Dibenzo(a,h)anthracene	9.9	U
191-24-2	Benzo(g,h,i)perylene	9.9	U

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-12J2C66.d
Date : 27-MAY-2010 12:56
Client ID: SB86-3-4
Sample Info: 1005132-12;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526C66.b/1005132-12J2C66.d
Report Date: 03-Jun-2010 14:40

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526C66.b/1005132-12J2C66.d
Lab Smp Id: 1005132-12 Client Smp ID: SB86-3-4
Inj Date : 27-MAY-2010 12:56
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-12:2743
Misc Info : SB86-3-4
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526C66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 13:52 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	16.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.571	5.570	(1.000)	32341	2.00000	
*	2 Naphthalene-d8	136	7.826	7.812	(1.000)	145826	2.00000	
*	3 Acenaphthene-d10	164	11.257	11.243	(1.000)	95298	2.00000	
*	4 Phenanthrene-d10	188	14.127	14.114	(1.000)	207822	2.00000	
*	5 Chrysene-d12	240	19.371	19.353	(1.000)	88778	2.00000	
*	6 Perylene-d12	264	22.005	21.983	(1.000)	65592	2.00000	
$	9 Nitrobenzene-d5	82	6.587	6.574	(0.842)	15775	0.48615	9.6
$	10 2-Fluorobiphenyl	172	9.989	9.976	(0.887)	35650	0.35849	7.1(R)
$	12 Terphenyl-d14	244	17.374	17.361	(0.897)	36853	1.14249	23
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-12J2C66.d
Report Date: 03-Jun-2010 14:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.957	16.930	(0.875)	2190	0.03416	0.68(aM)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

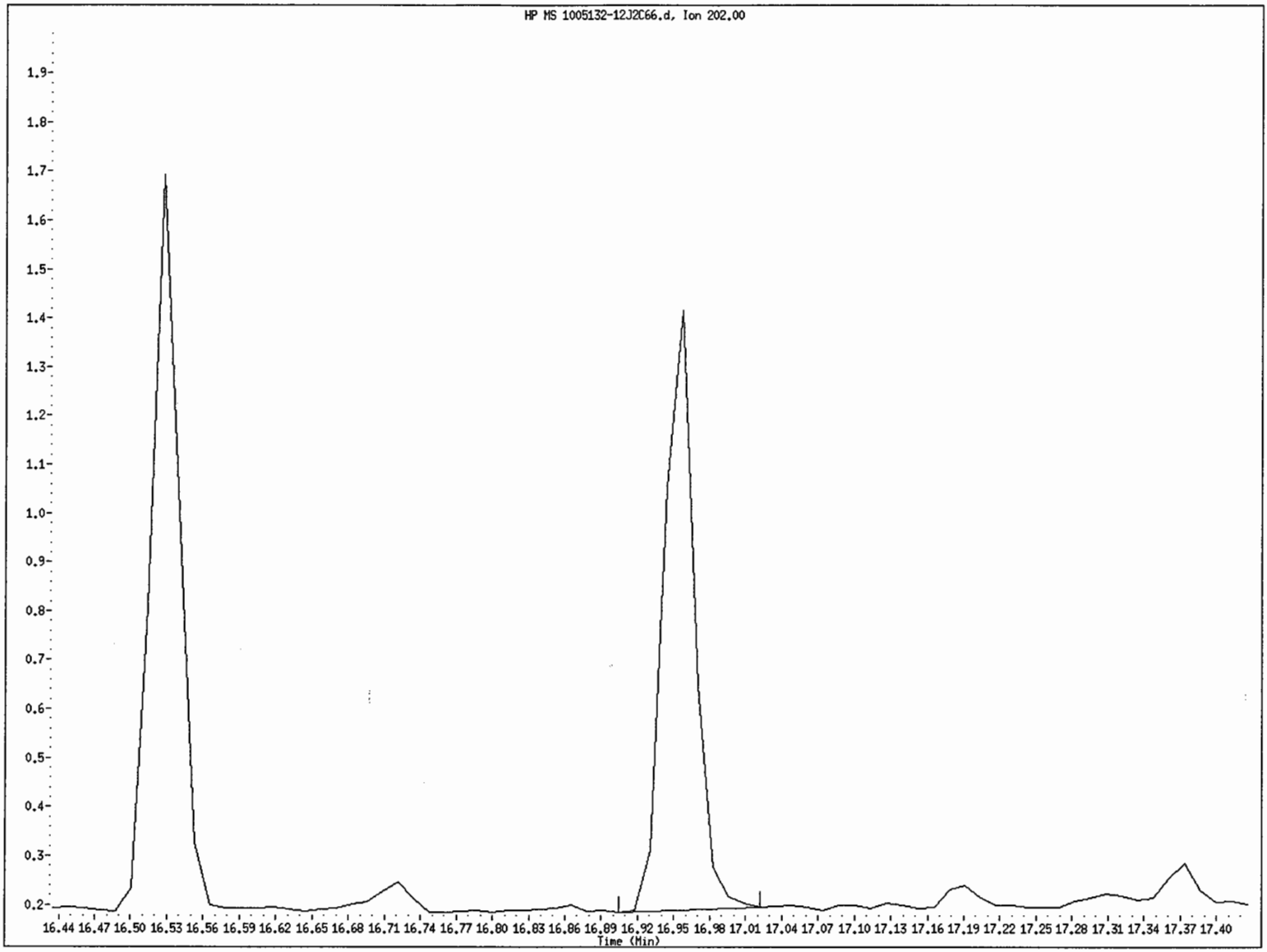
2

6/3/10
NH

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Pyrene CAS Number 129-00-0 Area = 2190 Manually integrated



File name: /chem/5972hp66.i/DS100526C66.b/1005132-12J2C66.d
Client ID: SB86-3-4
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 12:56
Retention Time: 16.96
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-12J2C66.d

Date : 27-MAY-2010 12:56

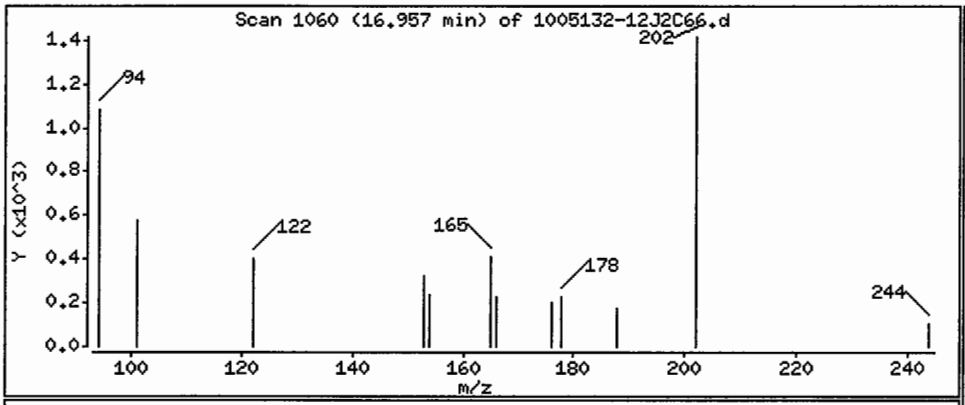
Client ID: SB86-3-4 Instrument: 5972hp66.i

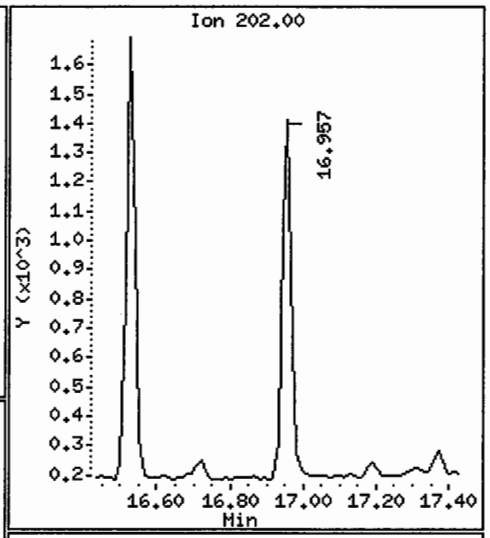
Sample Info: 1005132-12:2743

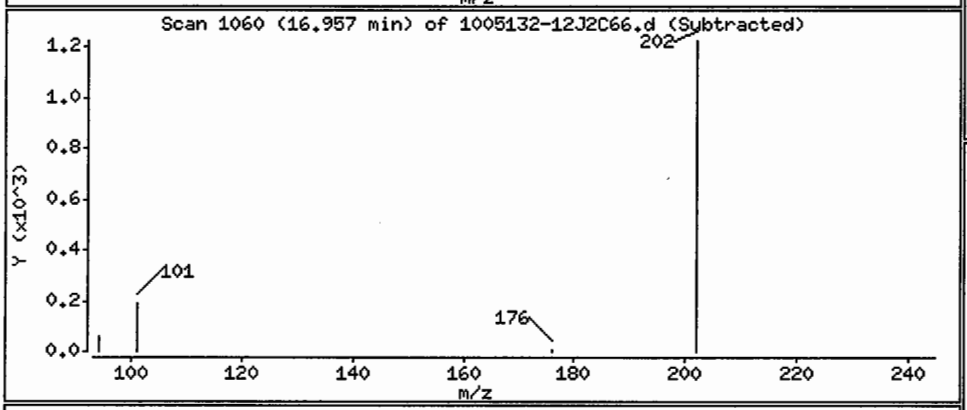
Volume Injected (uL): 2.0 Operator: 2743

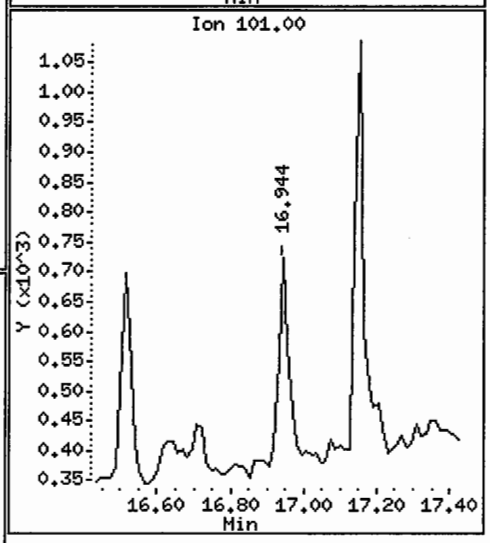
Column phase: Rtx-5MS Column diameter: 0.32

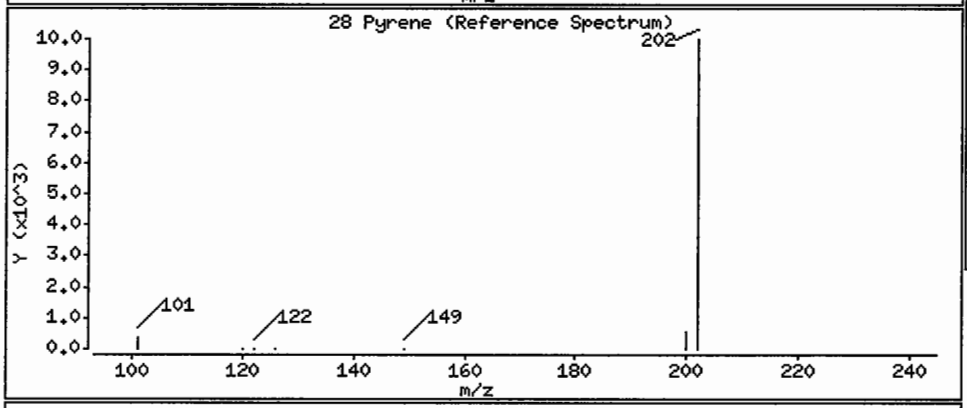
28 Pyrene Concentration: 0.68 ug/Kg

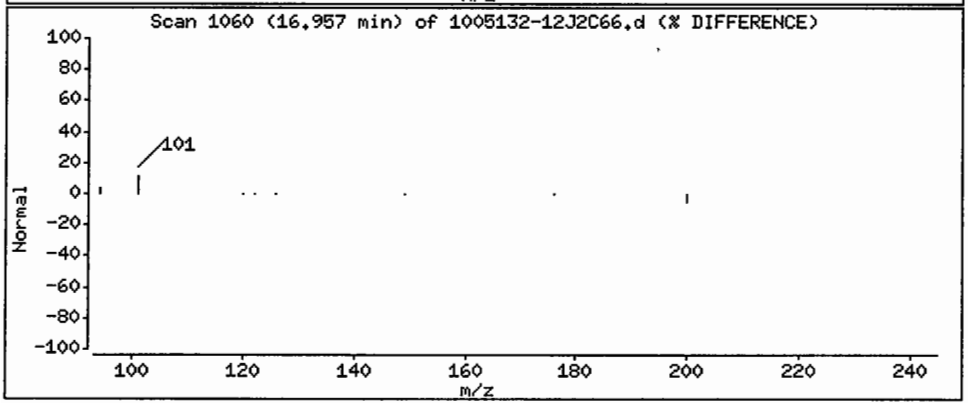






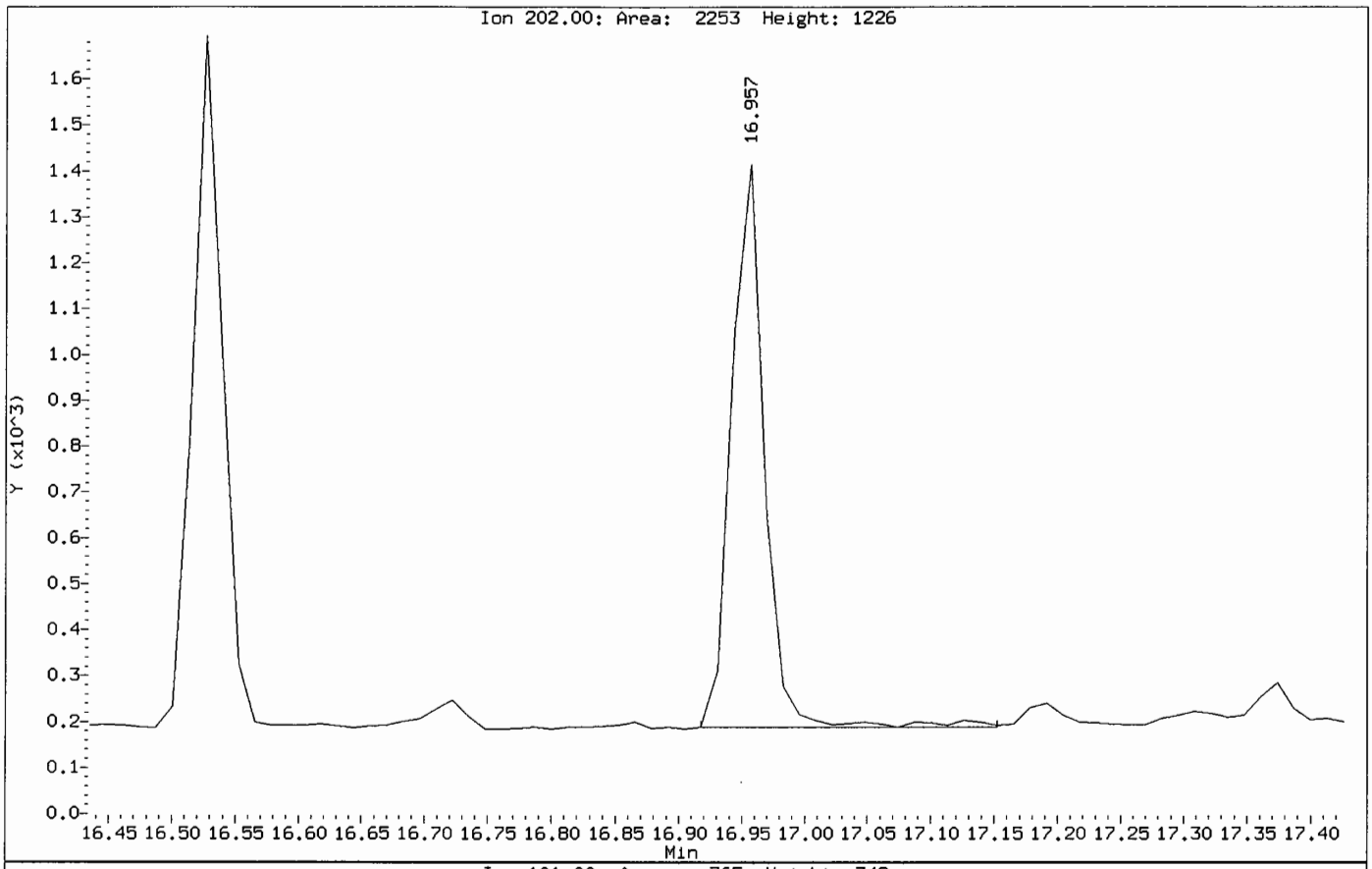


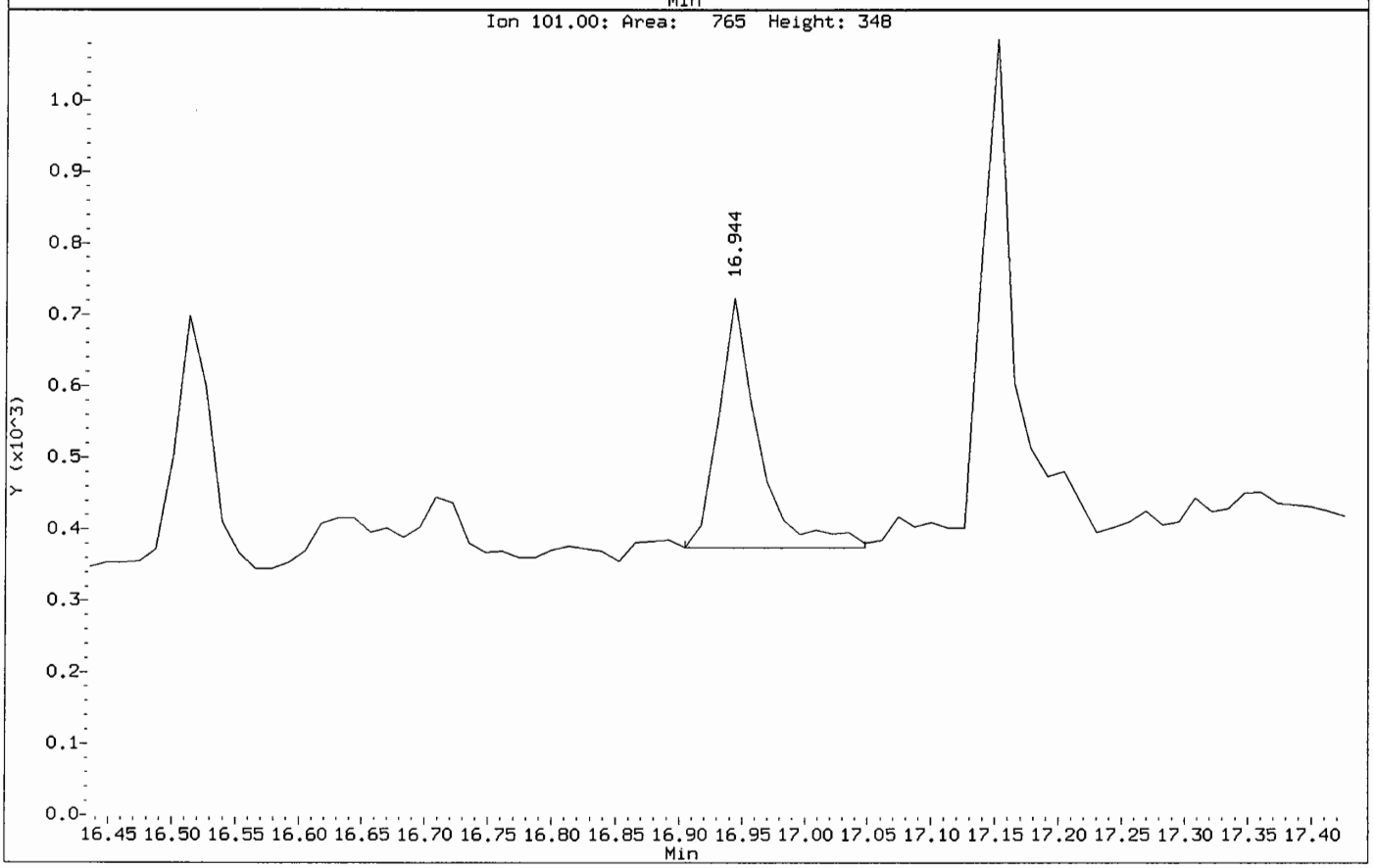




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-12J2C66.d
Injection Date: 27-MAY-2010 12:56
Instrument: 5972hp66.i
Client Sample ID: SB86-3-4

Compound: Pyrene
CAS Number: 129-00-0





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS62-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-09JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 69 decanted: (Y/N) N Date Extracted:05/20/10

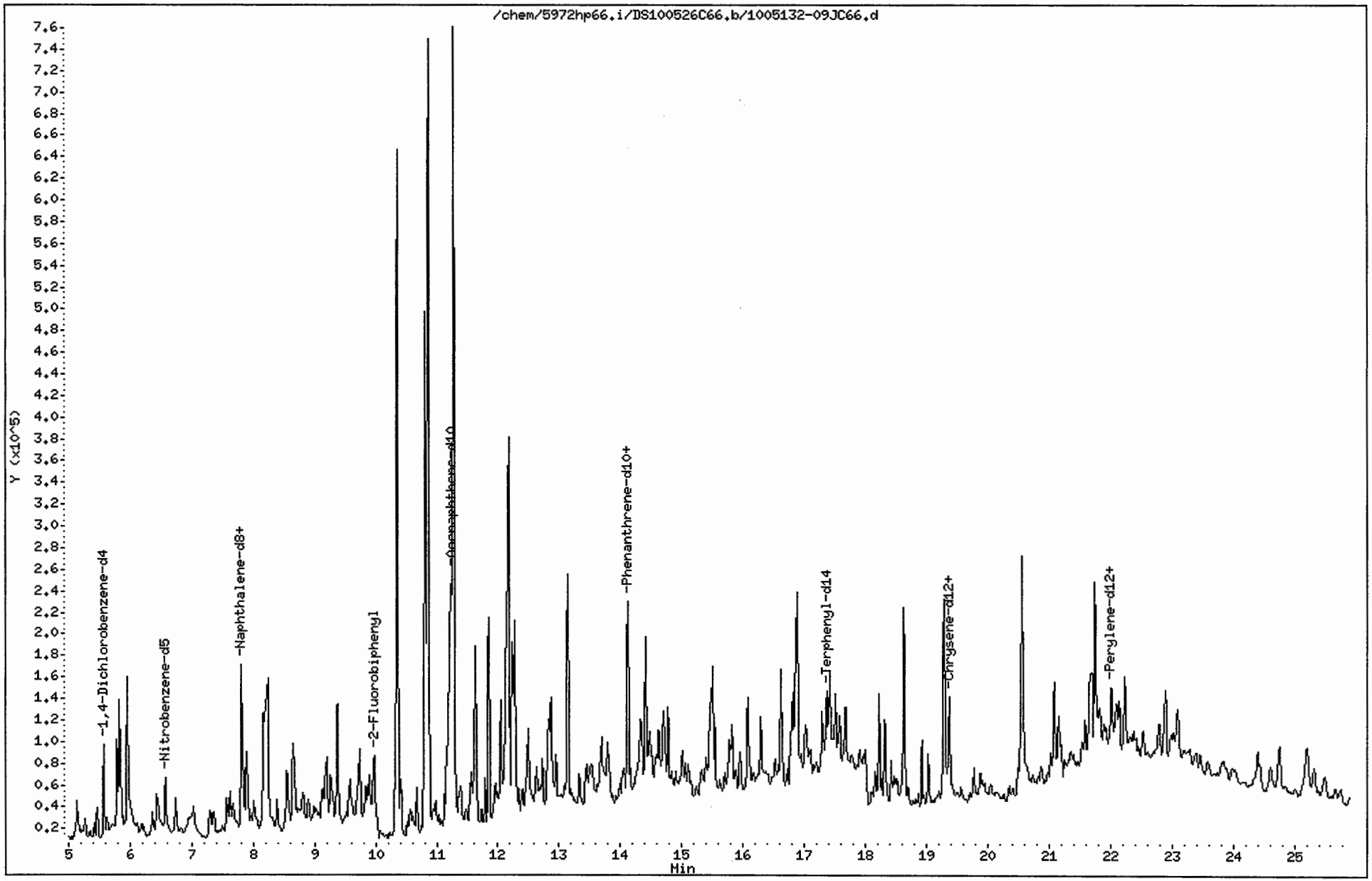
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	5.3	J
91-57-6	2-Methylnaphthalene	4.0	J
208-96-8	Acenaphthylene	4.6	J
83-32-9	Acenaphthene	27	U
86-73-7	Fluorene	27	U
85-01-8	Phenanthrene	10	J
120-12-7	Anthracene	27	U
206-44-0	Fluoranthene	14	J
129-00-0	Pyrene	12	J
56-55-3	Benzo(a)anthracene	5.4	J
218-01-9	Chrysene	8.5	J
205-99-2	Benzo(b)fluoranthene	15	J
207-08-9	Benzo(k)fluoranthene	8.3	J
50-32-8	Benzo(a)pyrene	7.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	7.5	J
53-70-3	Dibenzo(a,h)anthracene	27	U
191-24-2	Benzo(g,h,i)perylene	27	U

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Date : 27-MAY-2010 08:23
Client ID: SS62-0-1
Instrument: 5972hp66.i
Sample Info: 1005132-09;2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Report Date: 03-Jun-2010 14:40

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Lab Smp Id: 1005132-09 Client Smp ID: SS62-0-1
Inj Date : 27-MAY-2010 08:23
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-09:2743
Misc Info : SS62-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526C66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 13:52 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	69.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.573	5.570	(1.000)	49850	2.00000		
* 2 Naphthalene-d8	136	7.815	7.812	(1.000)	215130	2.00000		
* 3 Acenaphthene-d10	164	11.244	11.243	(1.000)	117726	2.00000		(M)
* 4 Phenanthrene-d10	188	14.126	14.114	(1.000)	254445	2.00000		(M)
* 5 Chrysene-d12	240	19.380	19.353	(1.000)	134394	2.00000		
* 6 Perylene-d12	264	22.015	21.983	(1.000)	84930	2.00000		
$ 9 Nitrobenzene-d5	82	6.576	6.574	(0.842)	43346	0.90548	49	
$ 10 2-Fluorobiphenyl	172	9.979	9.976	(1.000)	88785	0.72271	39	
$ 12 Terphenyl-d14	244	17.372	17.361	(0.896)	44716	0.91573	49	
13 Naphthalene	128	7.854	7.851	(1.005)	13057	0.09812	5.3(a)	
15 2-Methylnaphthalene	141	9.170	9.181	(1.000)	6258	0.07425	4.0(a)	
17 Acenaphthylene	152	10.931	10.930	(1.000)	11151	0.08480	4.6(a)	
18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Report Date: 03-Jun-2010 14:40

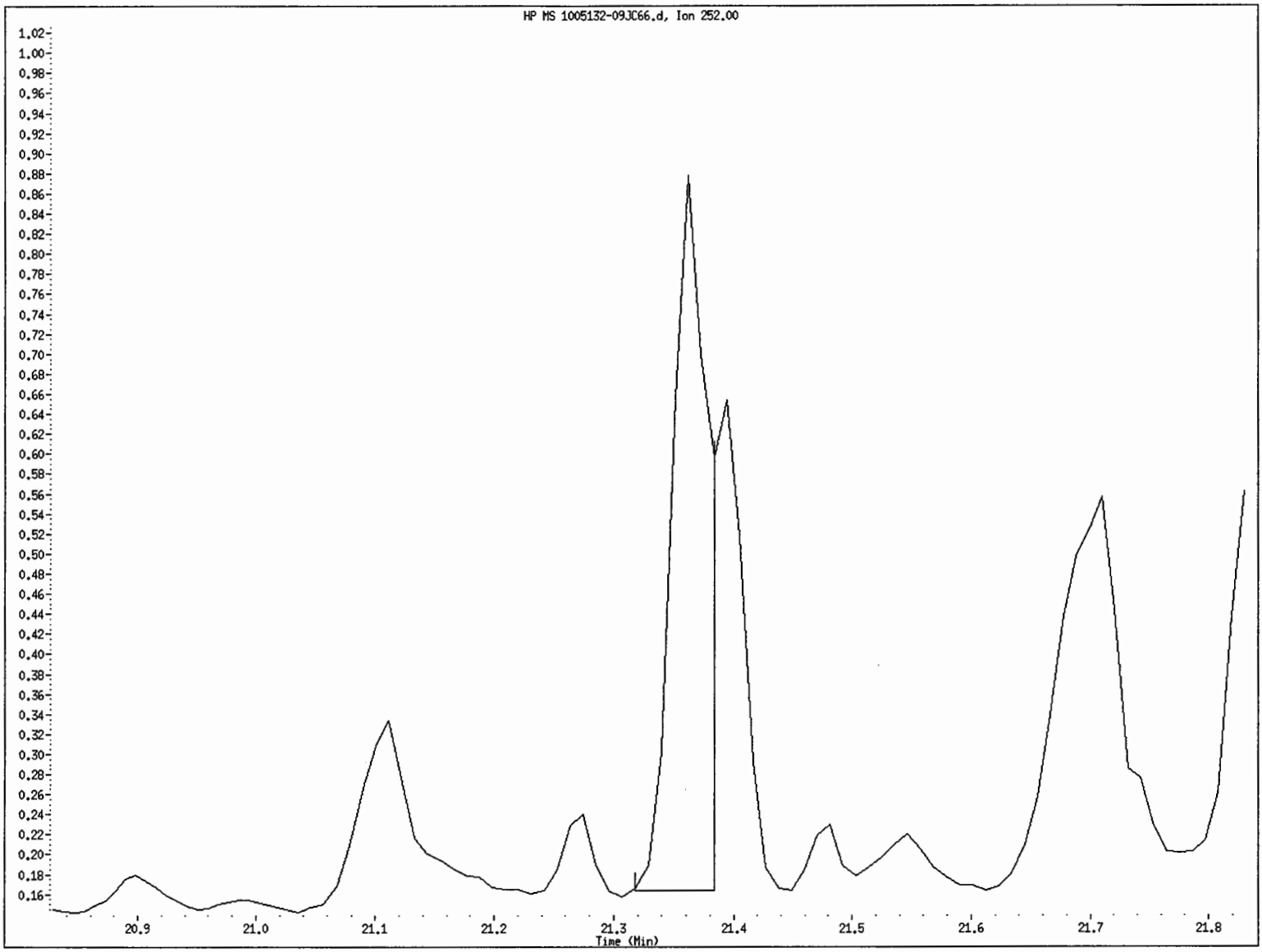
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.165	14.153	(1.000)	30938	0.19499	10(a)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	16.525	16.513	(0.853)	24008	0.26940	14(a)
28 Pyrene	202	16.955	16.930	(0.875)	22540	0.23225	12(a)
29 Benzo(a)anthracene	228	19.345	19.318	(0.998)	7329	0.10032	5.4(a)
30 Chrysene	228	19.424	19.396	(1.002)	12494	0.15789	8.5(a)
31 Benzo(b)fluoranthene	252	21.362	21.330	(0.970)	15278	0.27277	15(aM)
32 Benzo(k)fluoranthene	252	21.394	21.373	(0.972)	9275	0.15388	8.3(aM)
33 Benzo(a)pyrene	252	21.917	21.874	(0.996)	7366	0.14594	7.8(a)
34 Indeno(1,2,3-cd)pyrene	276	24.148	24.051	(1.097)	6182	0.13883	7.5(a)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

2 2 6/13/10 nt

QC Flag Legend

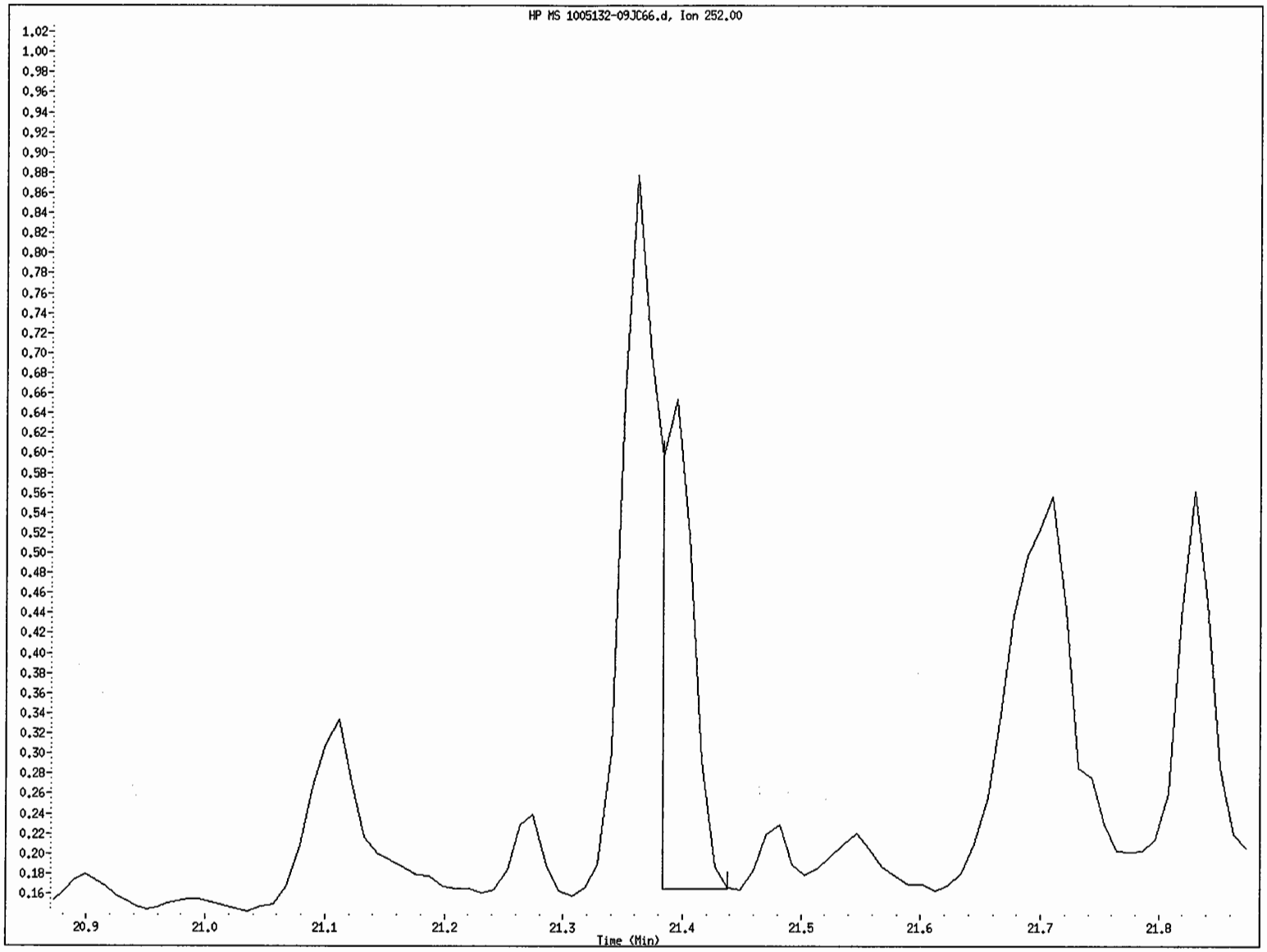
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Benzo(b)fluoranthene CAS Number 205-99-2 Area = 15278 Manually integrated



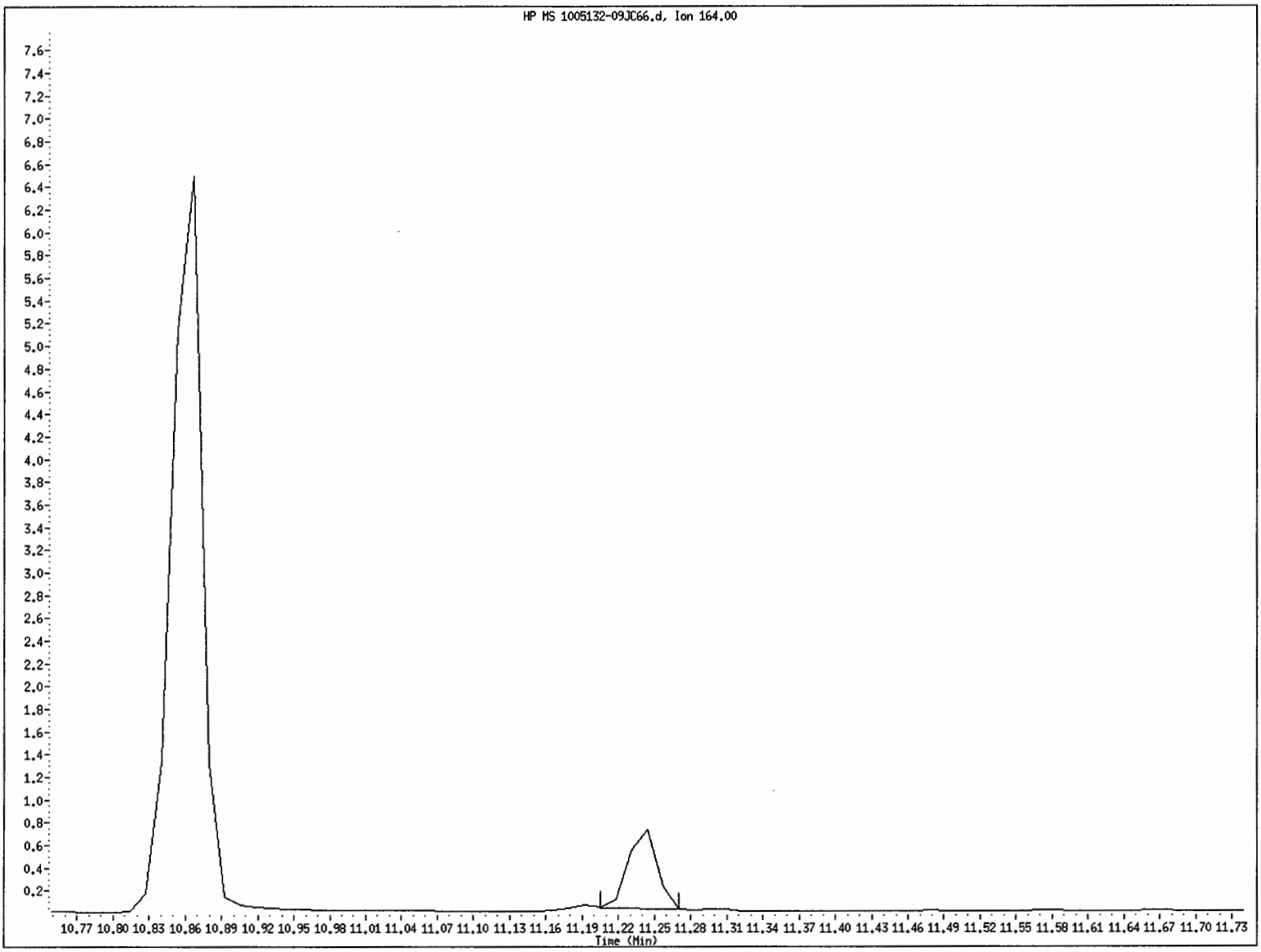
File name: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Client ID: SS62-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 08:23
Retention Time: 21.36
Operator ID: 2743

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 9275 Manually integrated



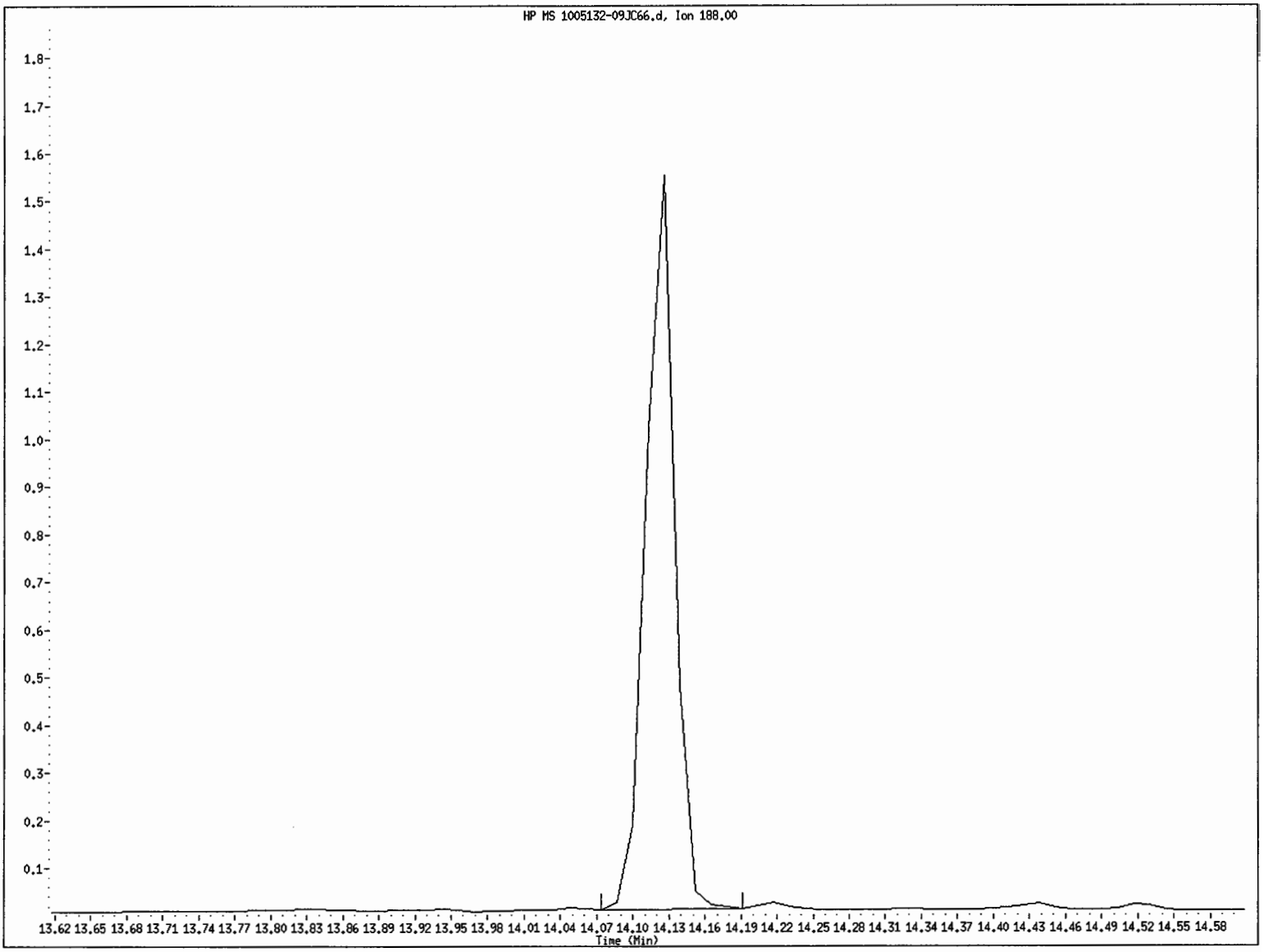
File name: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Client ID: SS62-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 08:23
Retention Time: 21.39
Operator ID: 2743

Acenaphthene-d10 CAS Number 15067-26-2 Area = 117726 Manually integrated



File name: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Client ID: SS62-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 08:23
Retention Time: 11.24
Operator ID: 2743

Phenanthrene-d10 CAS Number 1517-22-2 Area = 254445 Manually integrated



File name: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Client ID: SS62-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 08:23
Retention Time: 14.13
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

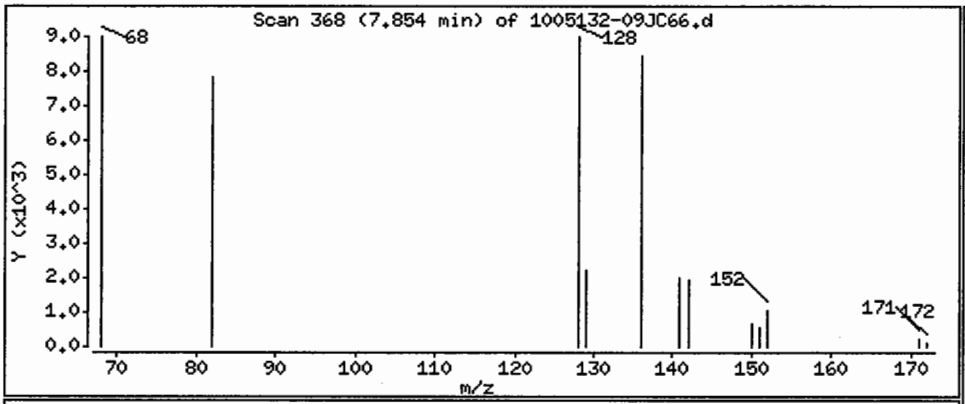
Client ID: SS62-0-1 Instrument: 5972hp66.i

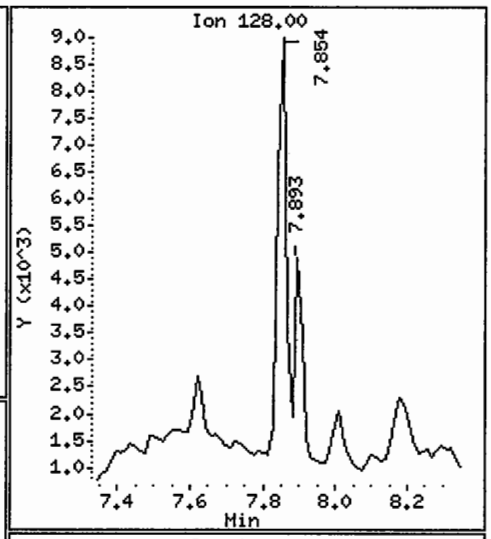
Sample Info: 1005132-09:2743

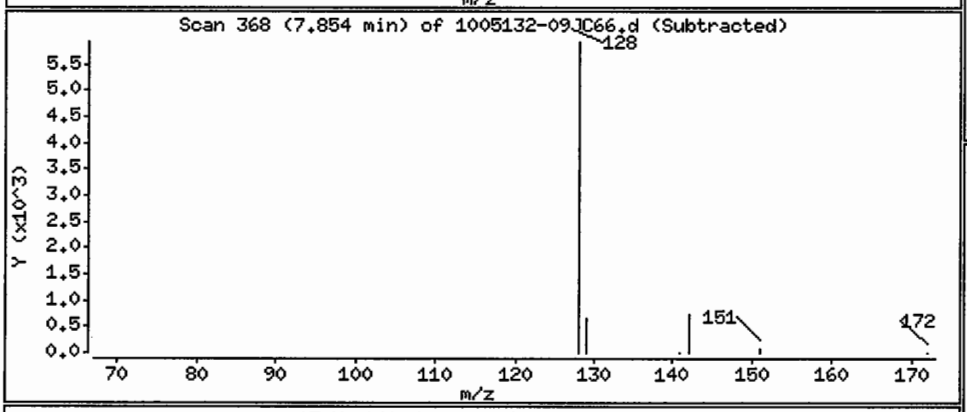
Volume Injected (uL): 2.0 Operator: 2743

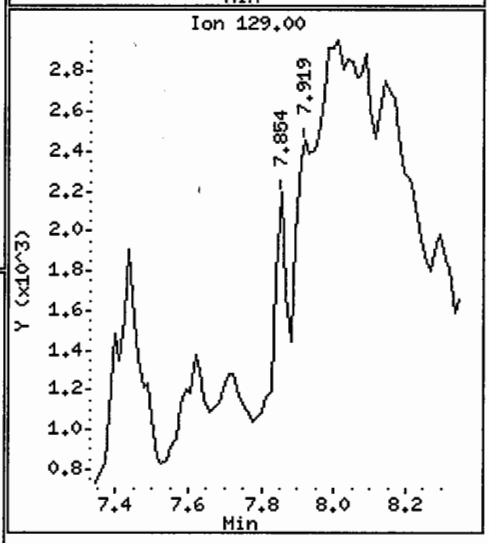
Column phase: Rtx-5MS Column diameter: 0.32

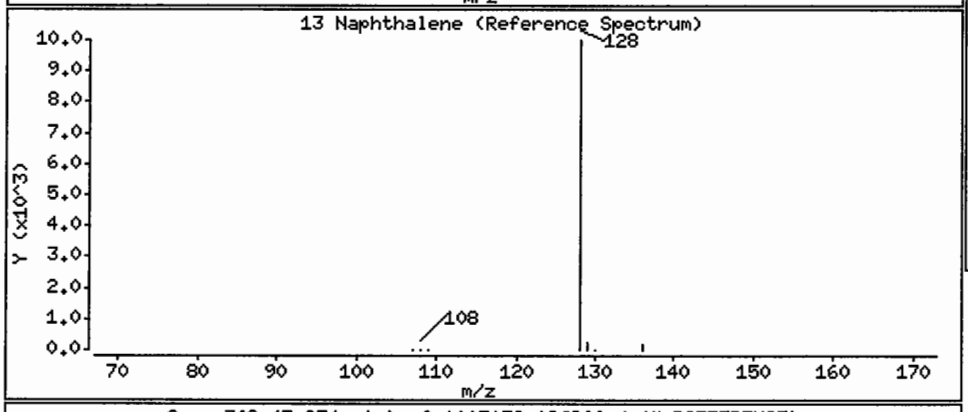
13 Naphthalene Concentration: 5.3 ug/Kg

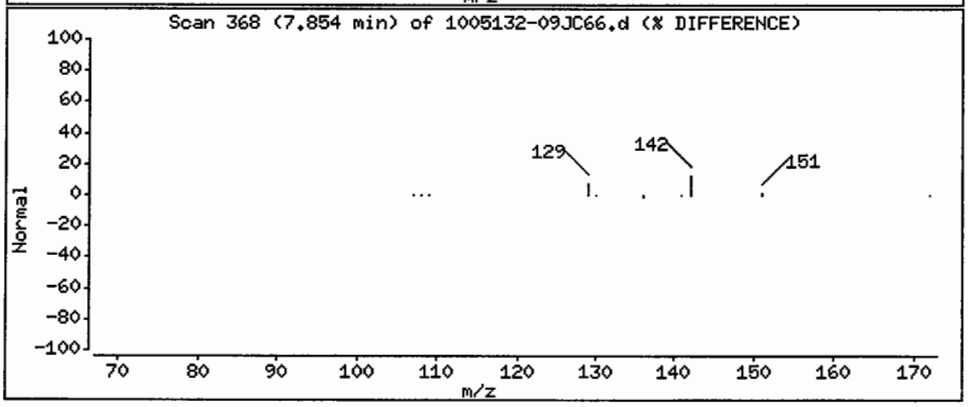












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

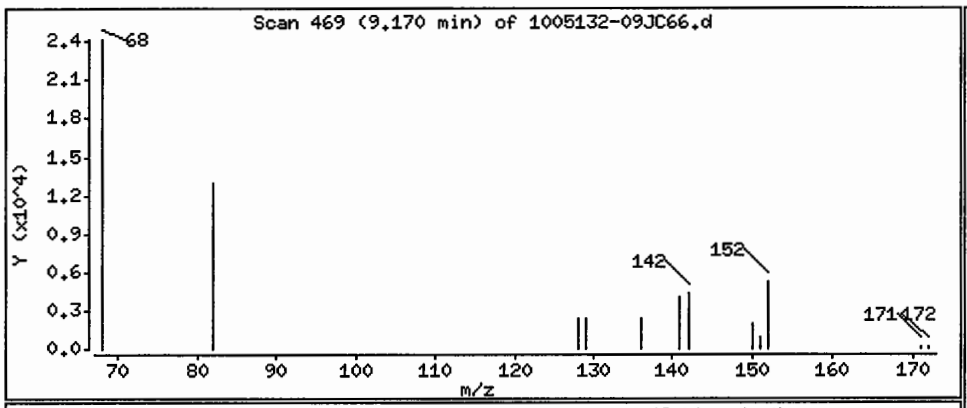
Client ID: SS62-0-1 Instrument: 5972hp66.i

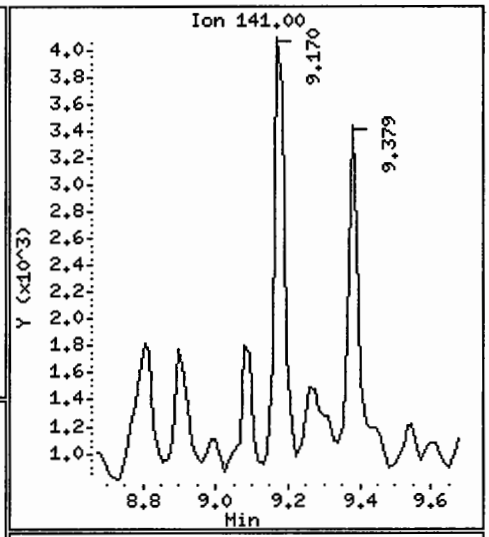
Sample Info: 1005132-09:2743

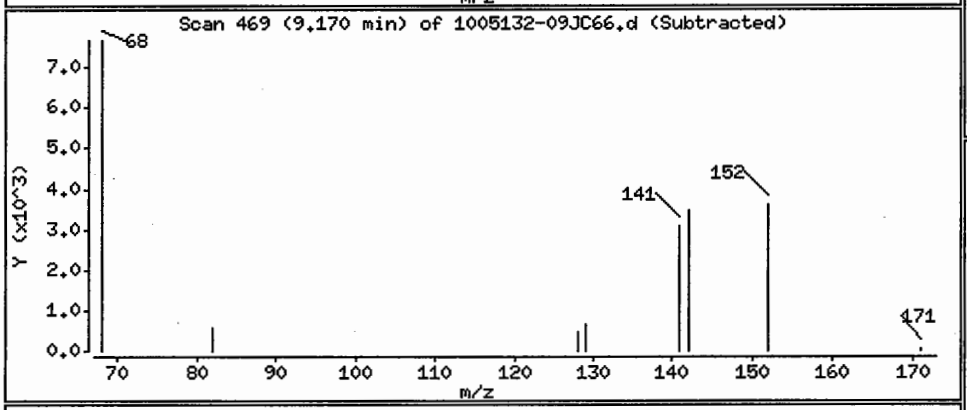
Volume Injected (uL): 2.0 Operator: 2743

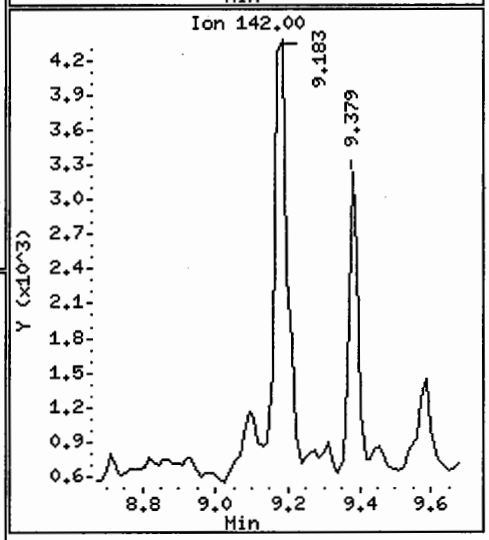
Column phase: Rtx-5MS Column diameter: 0.32

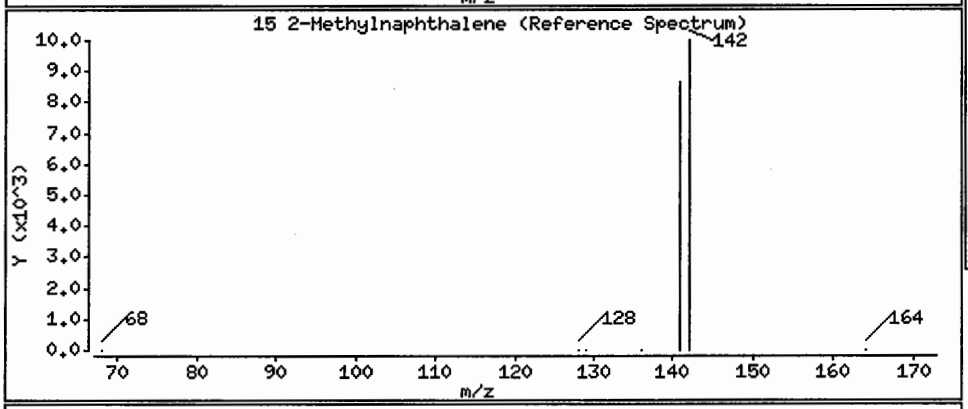
15 2-Methylnaphthalene Concentration: 4.0 ug/Kg

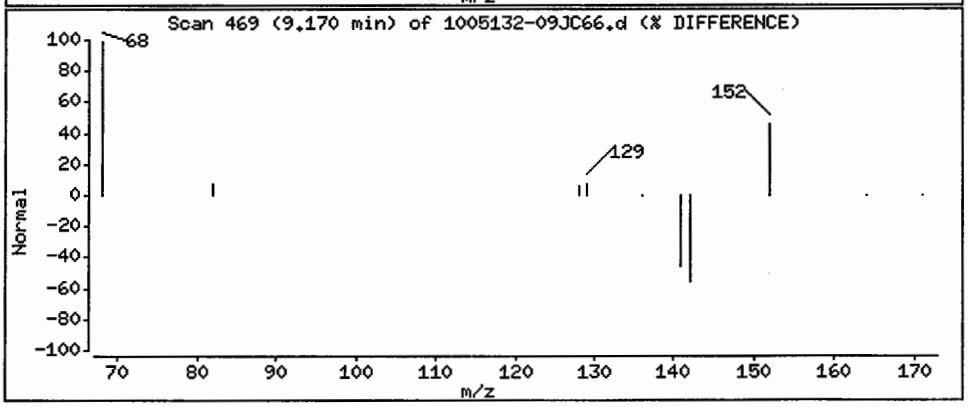












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

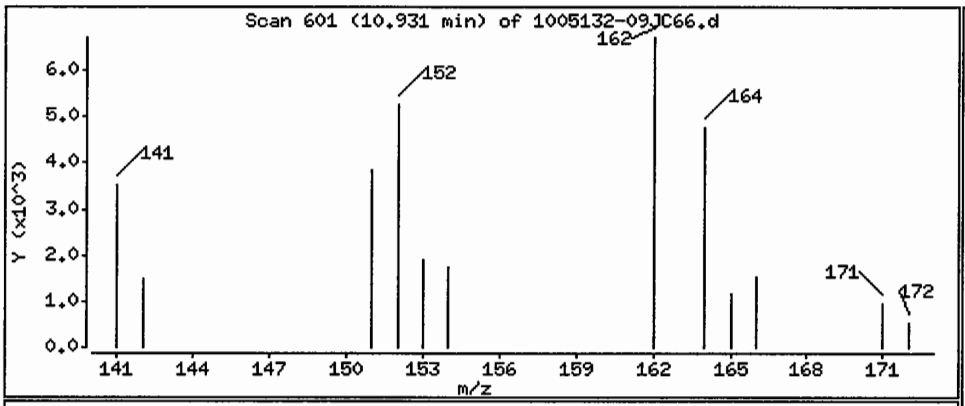
Client ID: SS62-0-1 Instrument: 5972hp66.i

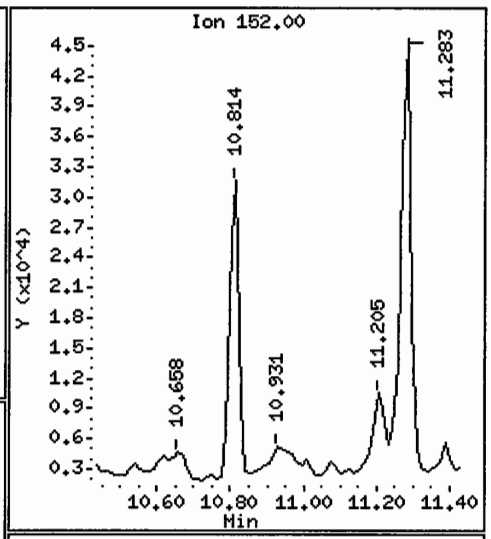
Sample Info: 1005132-09:2743

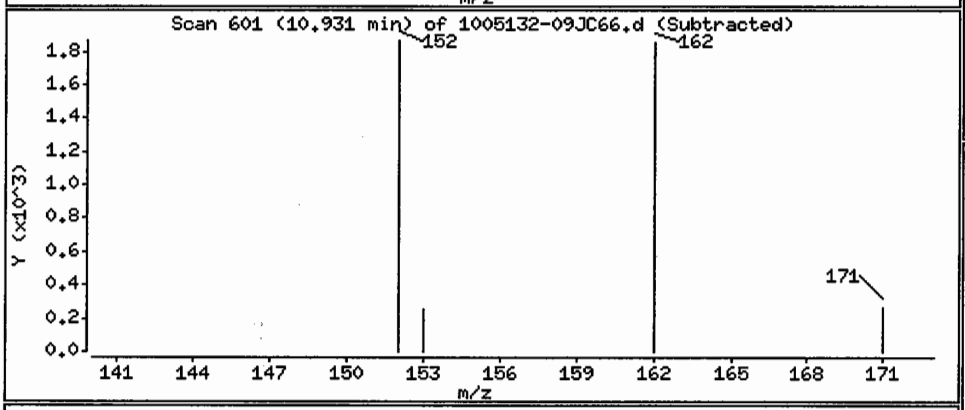
Volume Injected (uL): 2.0 Operator: 2743

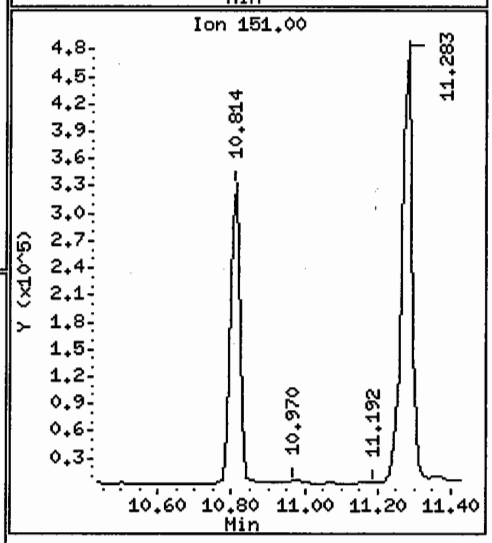
Column phase: Rtx-5MS Column diameter: 0.32

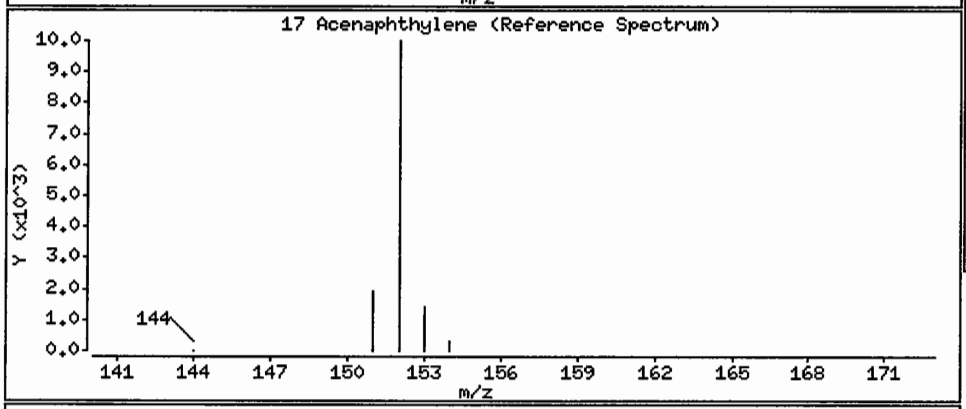
17 Acenaphthylene Concentration: 4.6 ug/Kg

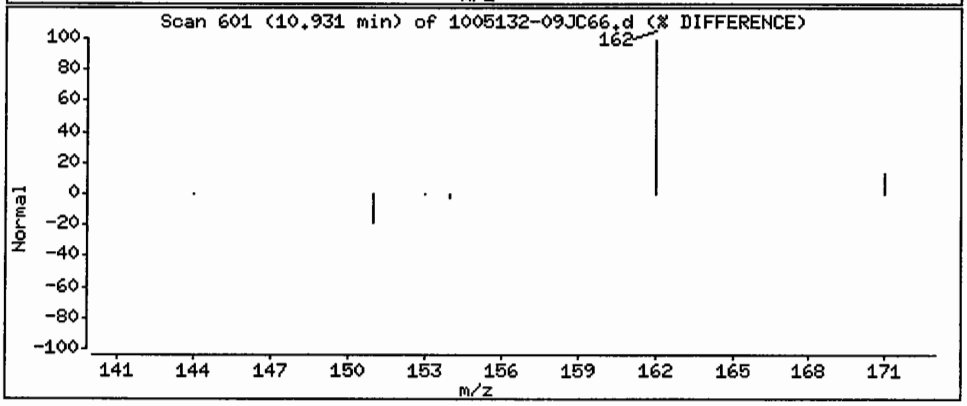












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

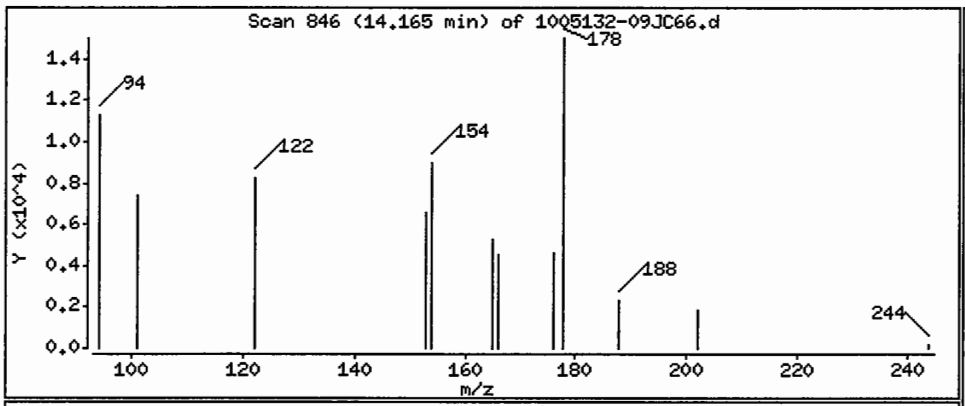
Client ID: SS62-0-1 Instrument: 5972hp66.i

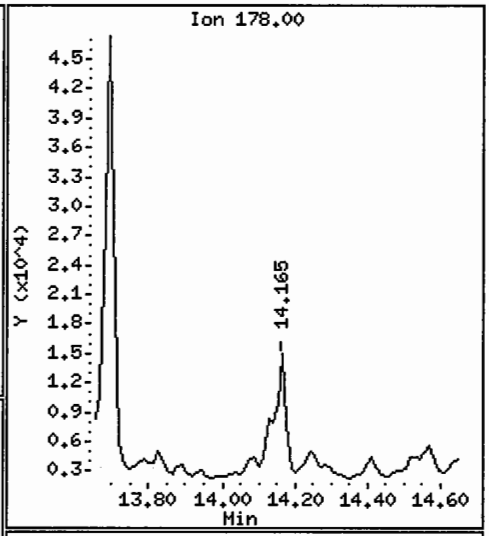
Sample Info: 1005132-09:2743

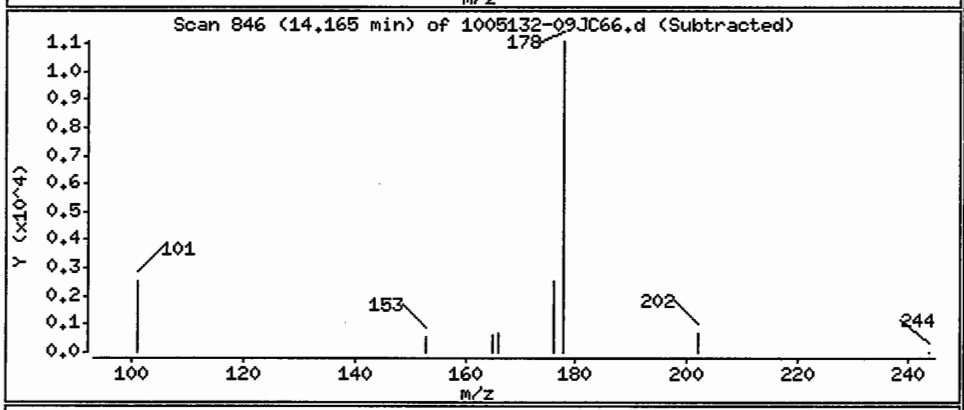
Volume Injected (uL): 2.0 Operator: 2743

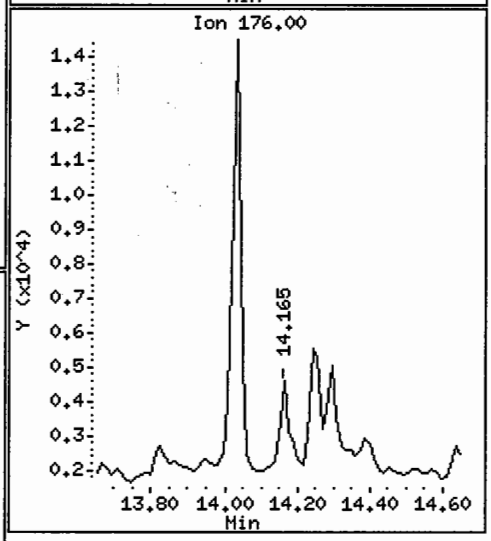
Column phase: Rtx-5MS Column diameter: 0.32

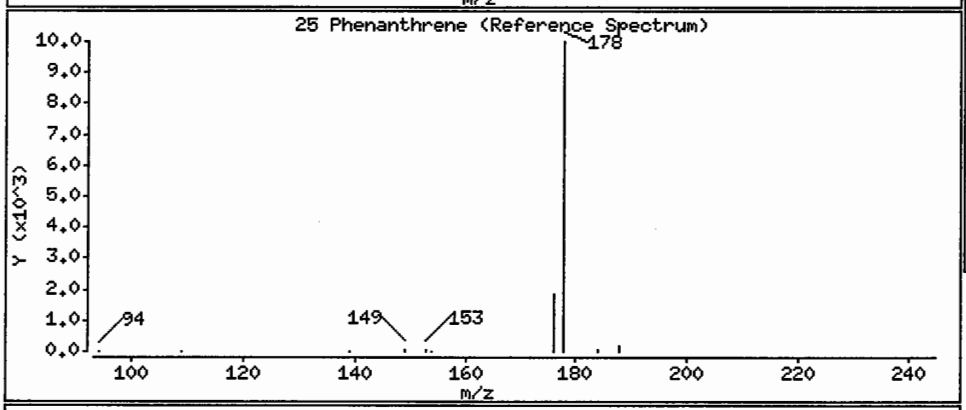
25 Phenanthrene Concentration: 10 ug/Kg

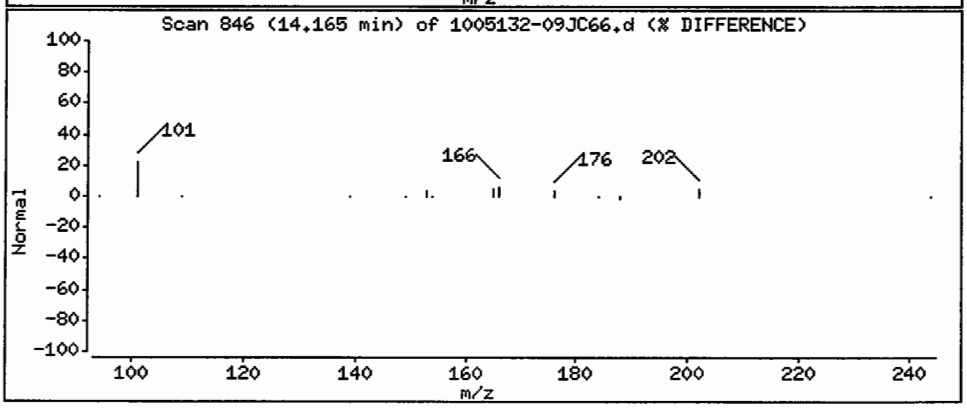












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

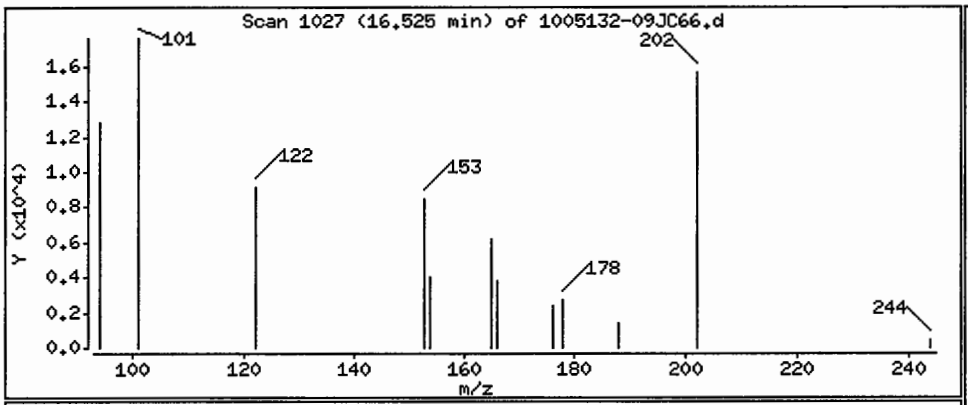
Client ID: SS62-0-1 Instrument: 5972hp66.i

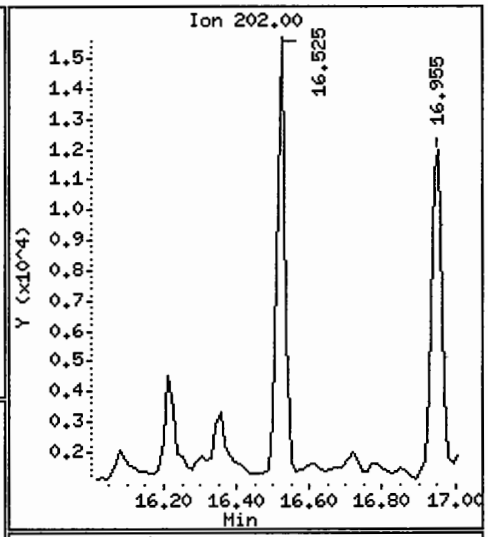
Sample Info: 1005132-09:2743

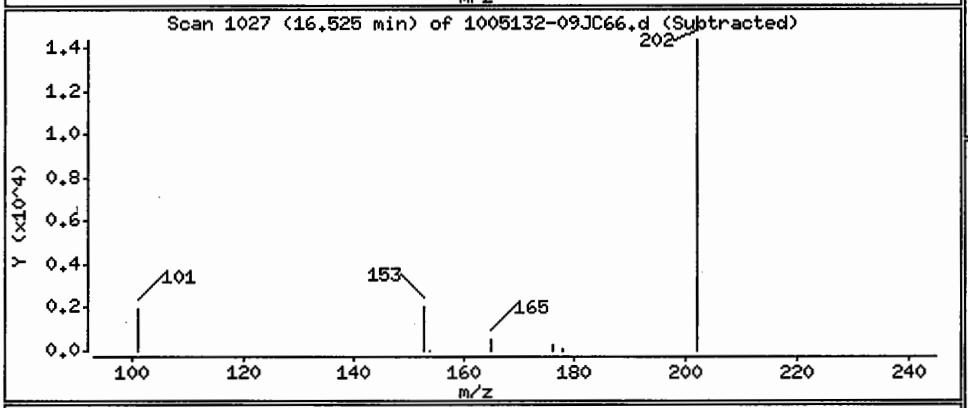
Volume Injected (uL): 2.0 Operator: 2743

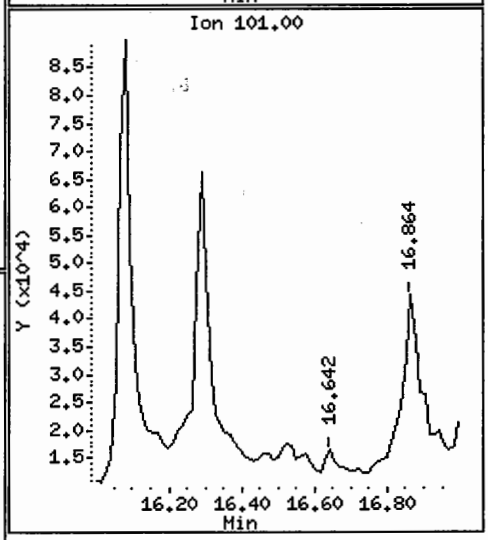
Column phase: Rtx-5MS Column diameter: 0.32

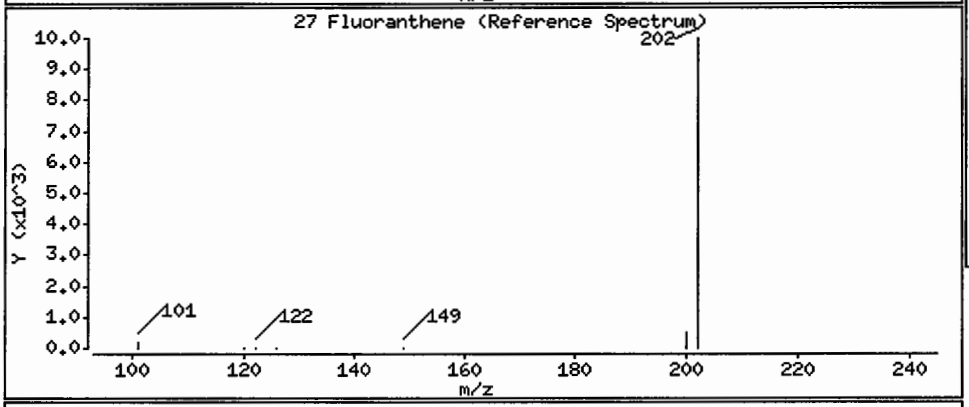
27 Fluoranthene Concentration: 14 ug/Kg

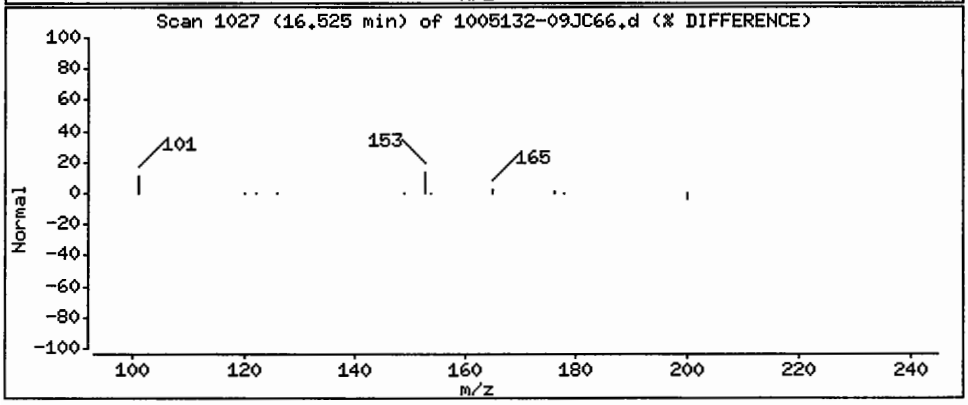












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

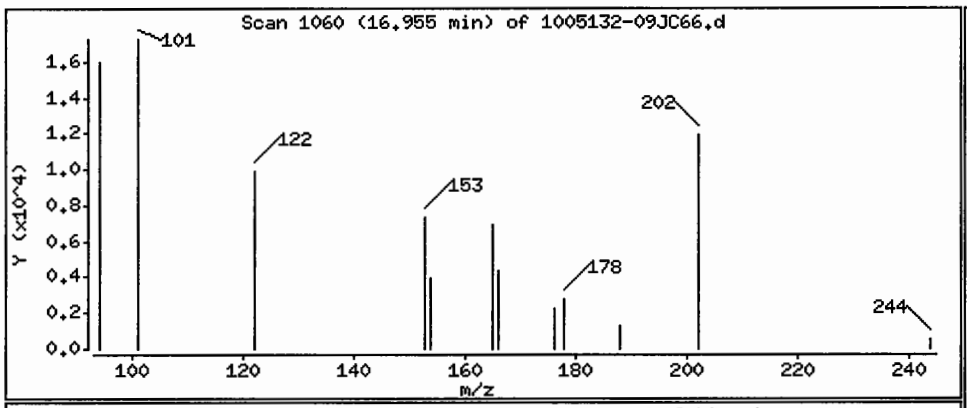
Client ID: SS62-0-1 Instrument: 5972hp66.i

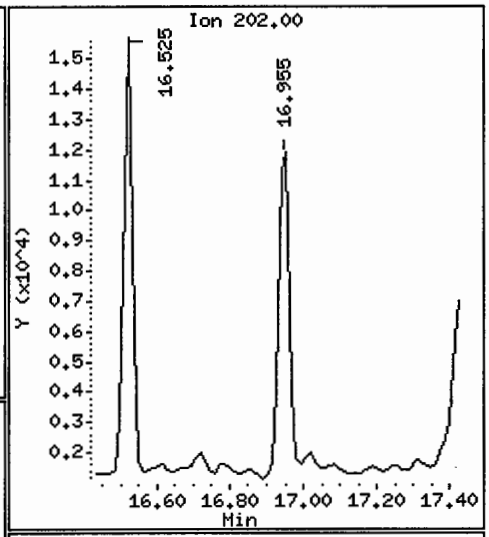
Sample Info: 1005132-09:2743

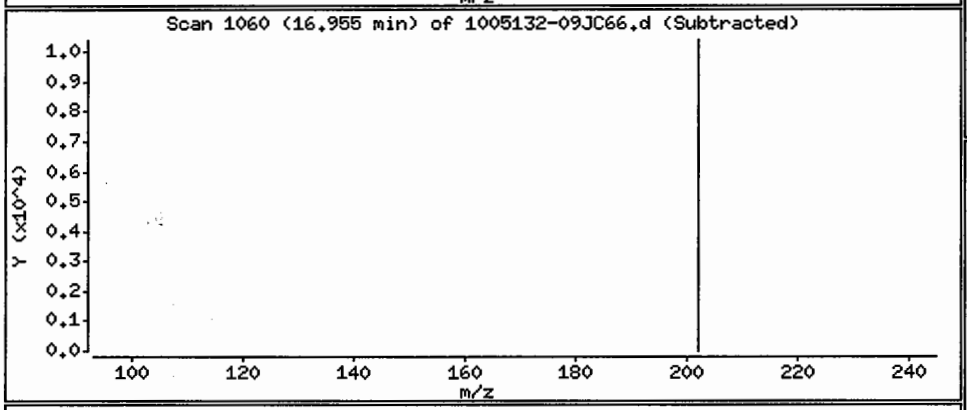
Volume Injected (uL): 2.0 Operator: 2743

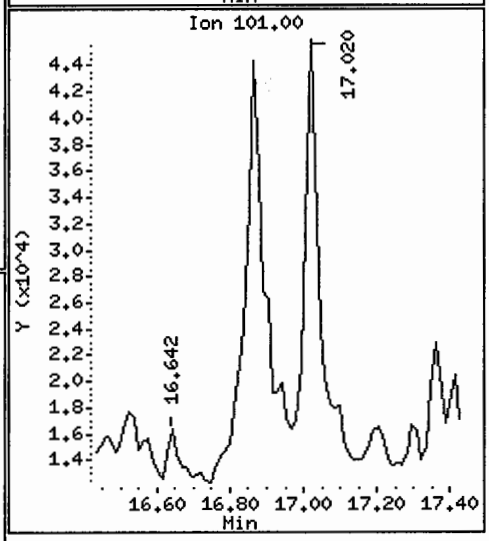
Column phase: Rtx-5MS Column diameter: 0.32

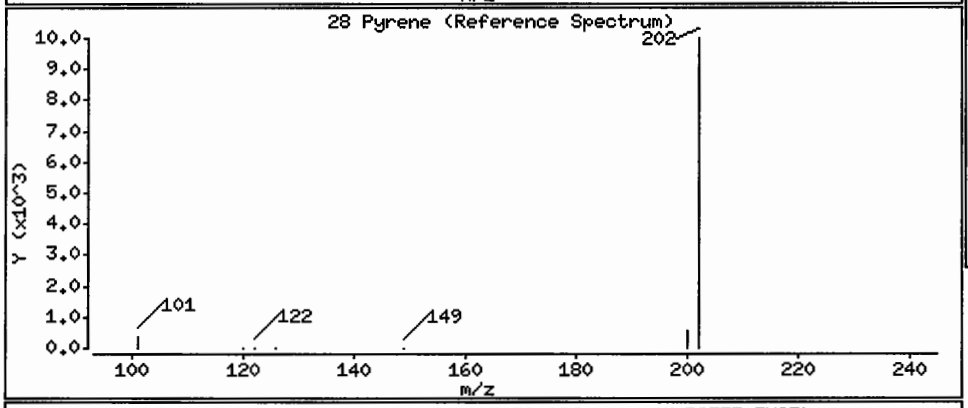
28 Pyrene Concentration: 12 ug/Kg

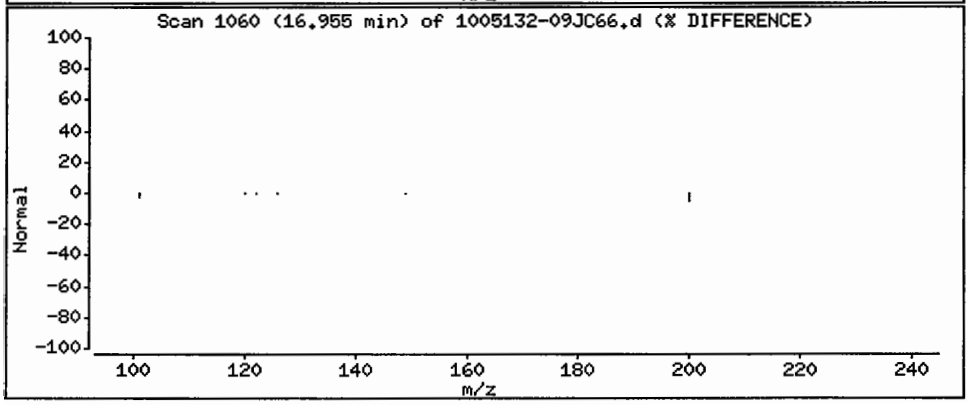












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

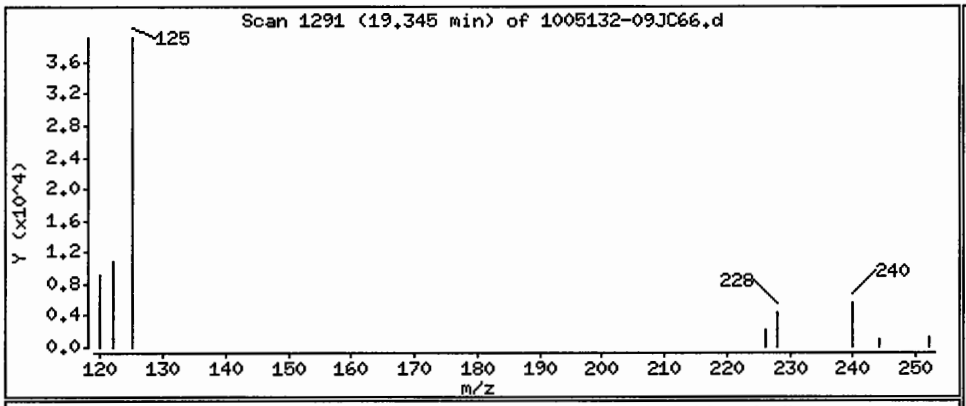
Client ID: SS62-0-1 Instrument: 5972hp66.i

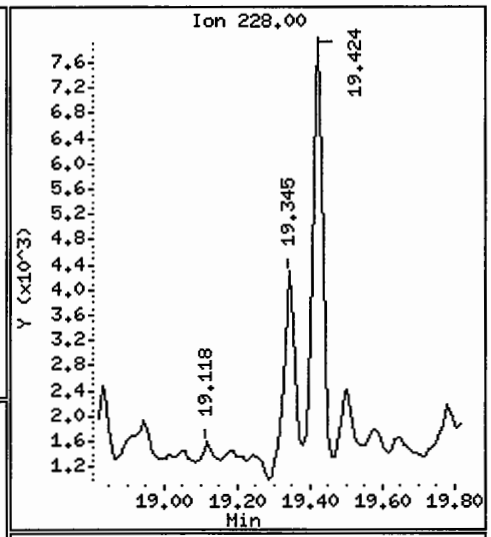
Sample Info: 1005132-09:2743

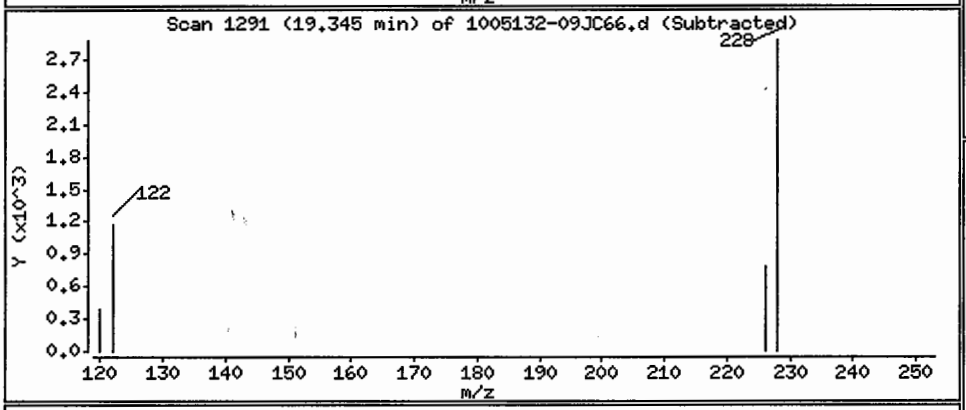
Volume Injected (uL): 2.0 Operator: 2743

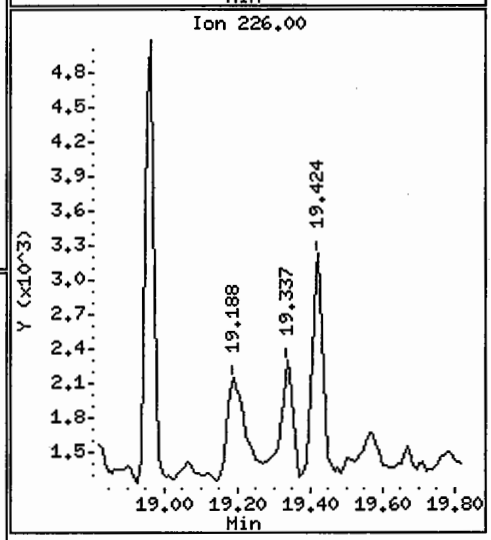
Column phase: Rtx-5MS Column diameter: 0.32

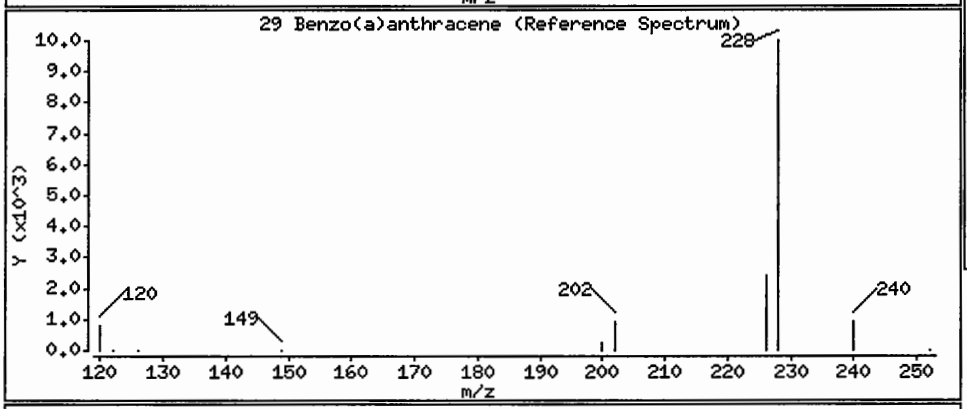
29 Benzo(a)anthracene Concentration: 5.4 ug/Kg

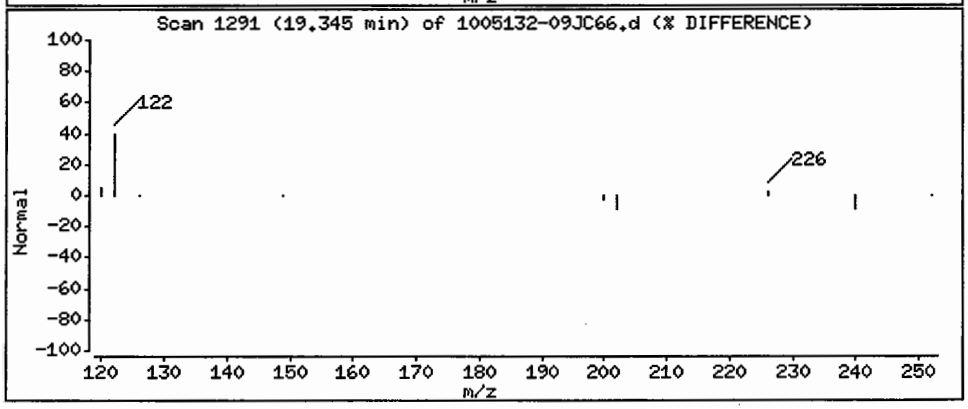












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

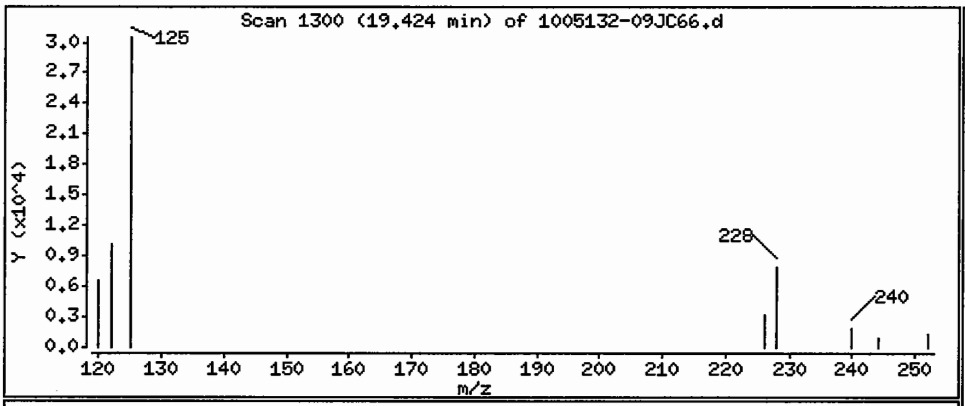
Client ID: SS62-0-1 Instrument: 5972hp66.i

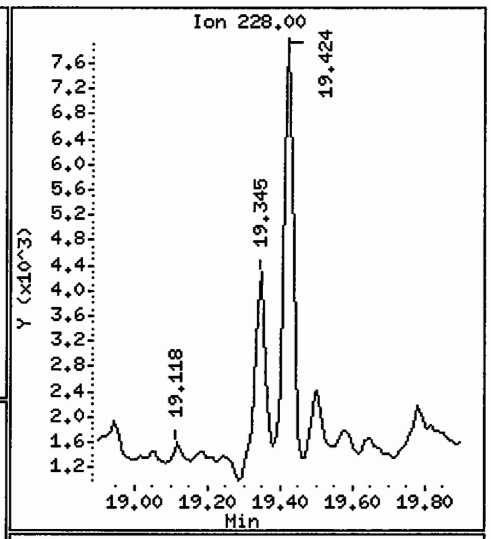
Sample Info: 1005132-09:2743

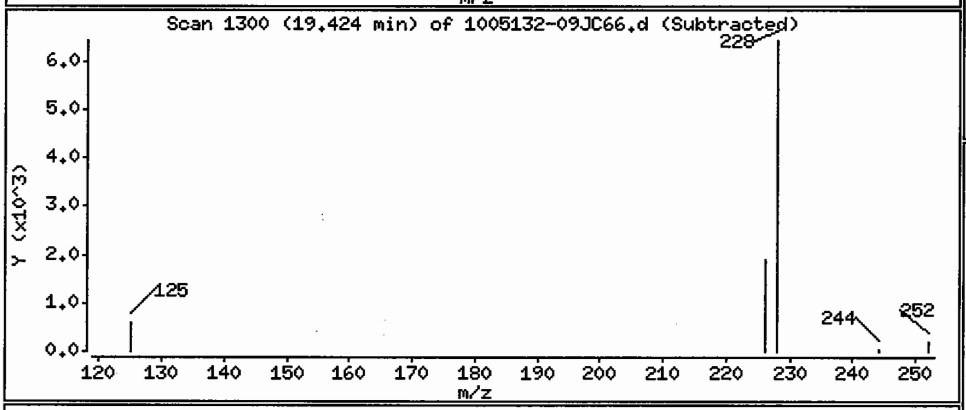
Volume Injected (uL): 2.0 Operator: 2743

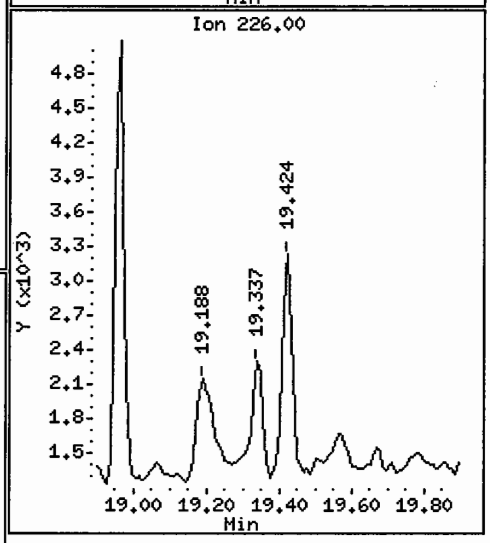
Column phase: Rtx-5MS Column diameter: 0.32

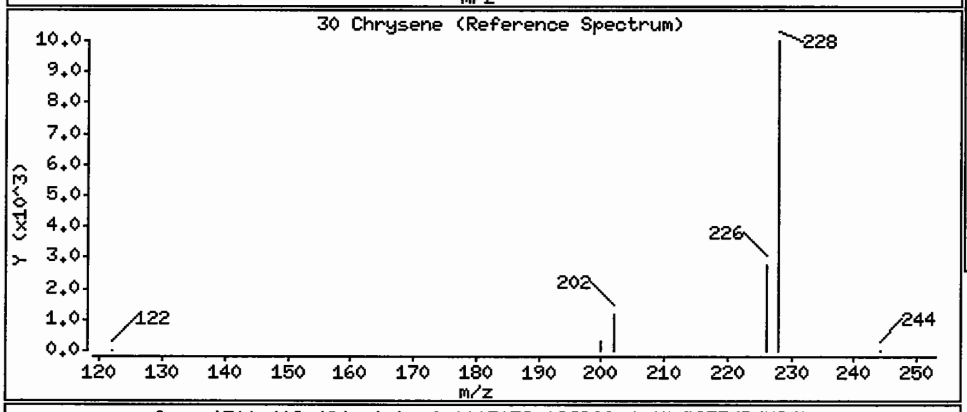
30 Chrysene Concentration: 8.5 ug/Kg

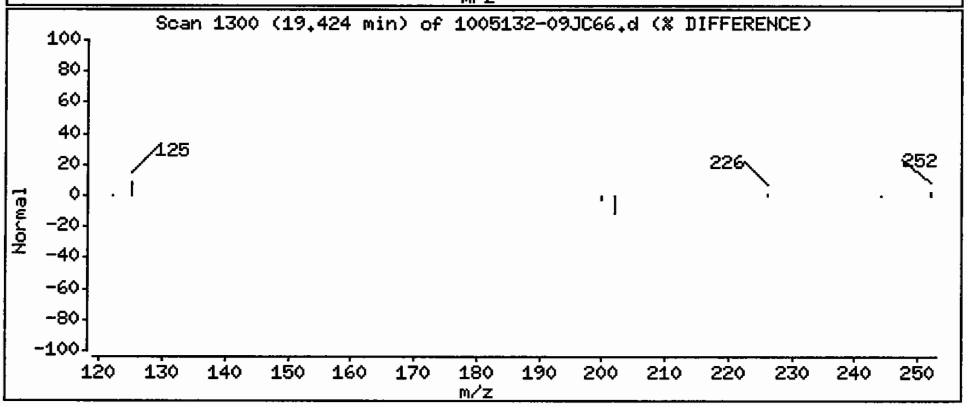












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

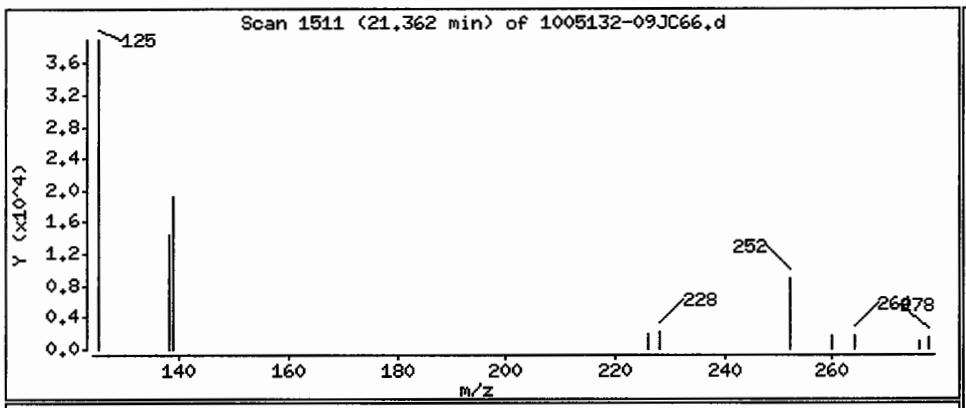
Client ID: SS62-0-1 Instrument: 5972hp66.i

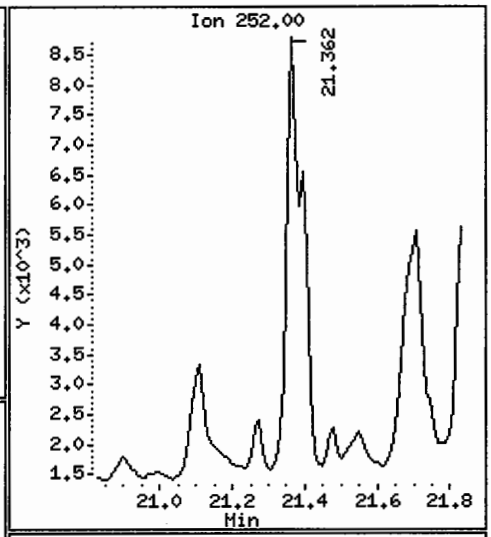
Sample Info: 1005132-09:2743

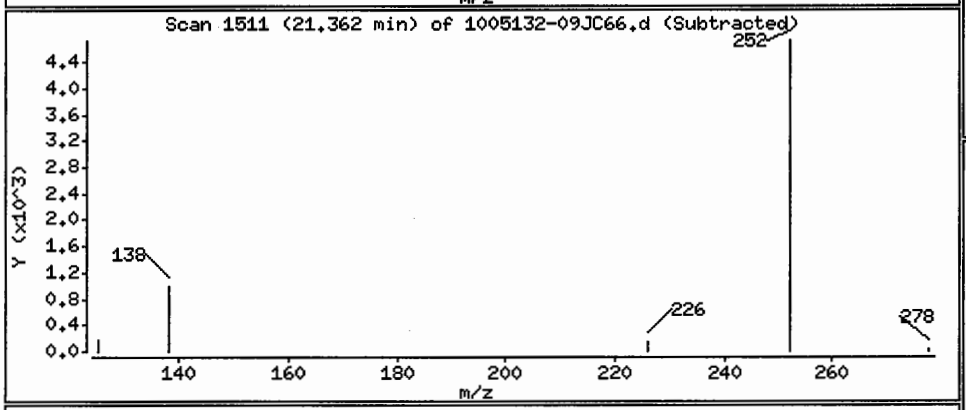
Volume Injected (uL): 2.0 Operator: 2743

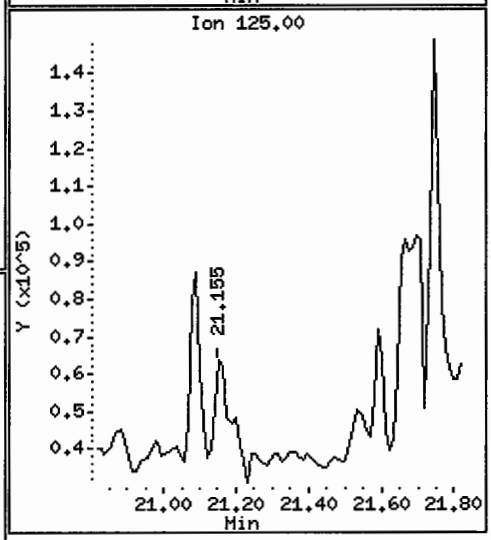
Column phase: Rtx-5MS Column diameter: 0.32

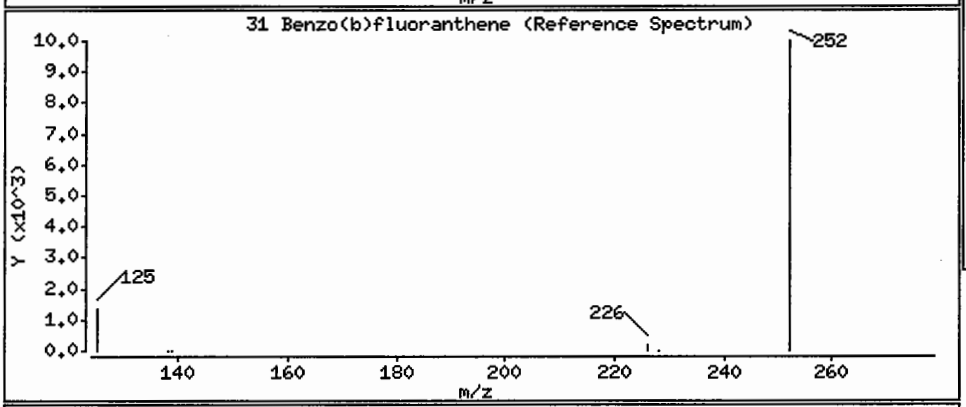
31 Benzo(b)fluoranthene Concentration: 15 ug/Kg

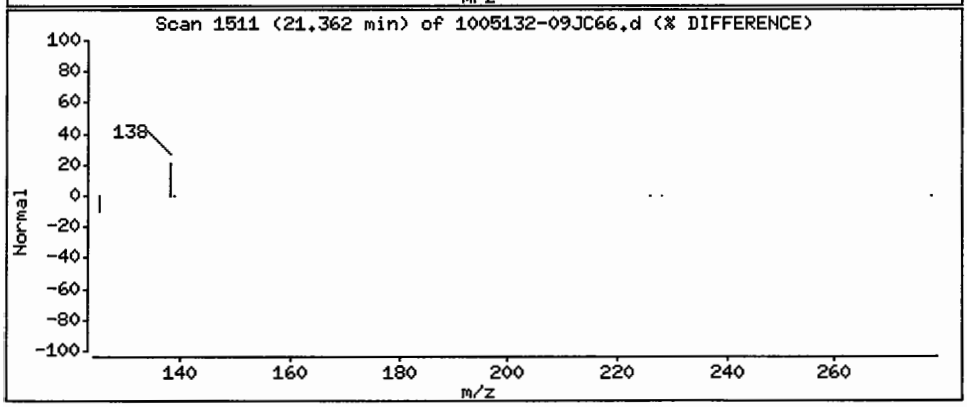












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

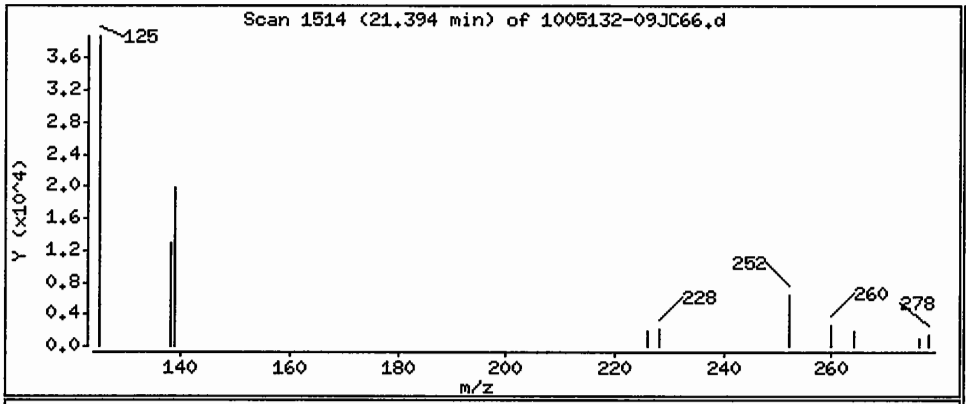
Client ID: SS62-0-1 Instrument: 5972hp66.i

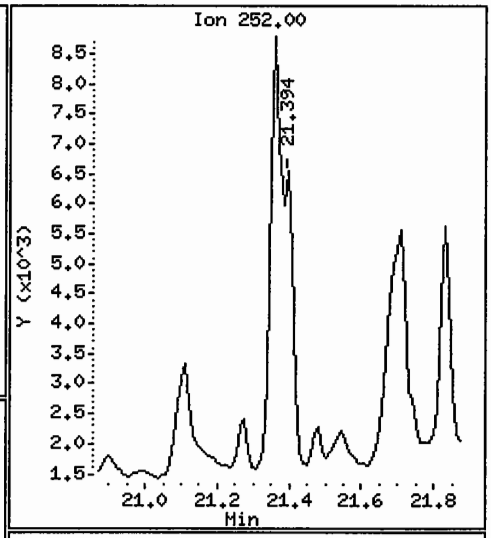
Sample Info: 1005132-09:2743

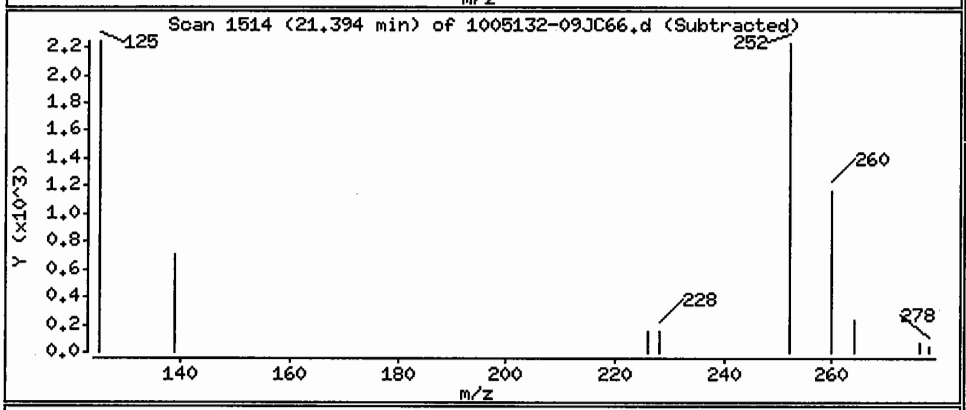
Volume Injected (uL): 2.0 Operator: 2743

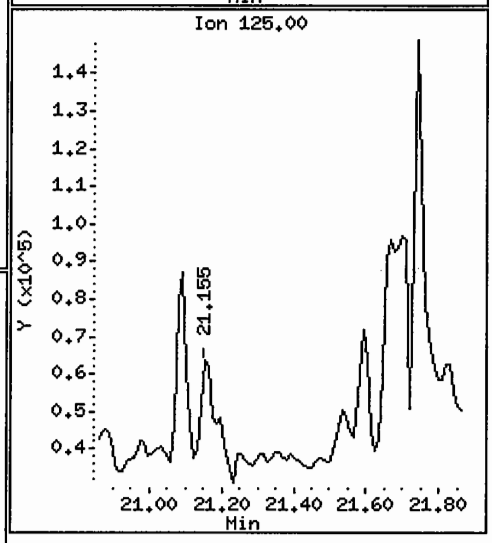
Column phase: Rtx-5MS Column diameter: 0.32

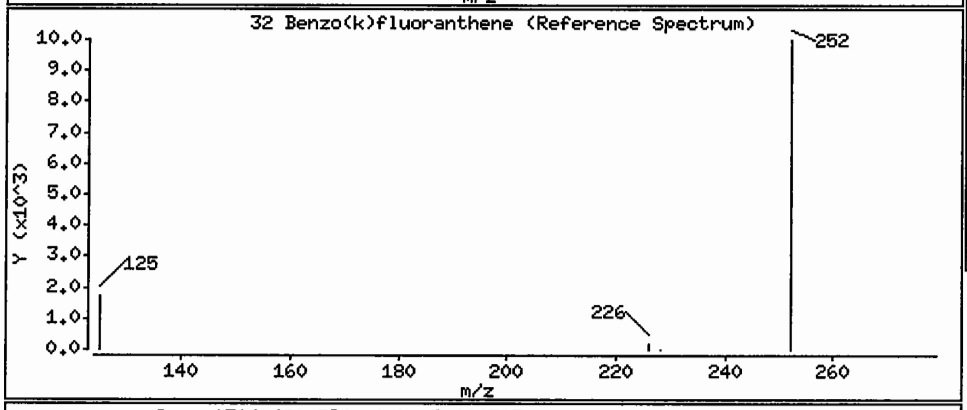
32 Benzo(k)fluoranthene Concentration: 8.3 ug/Kg

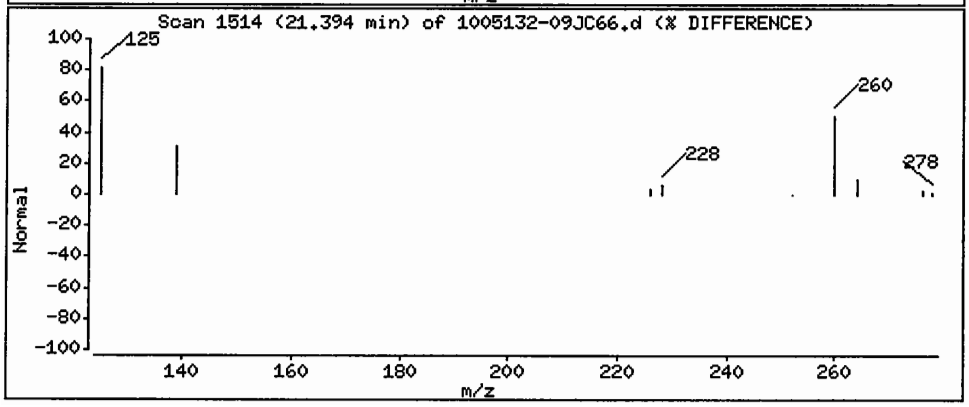












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

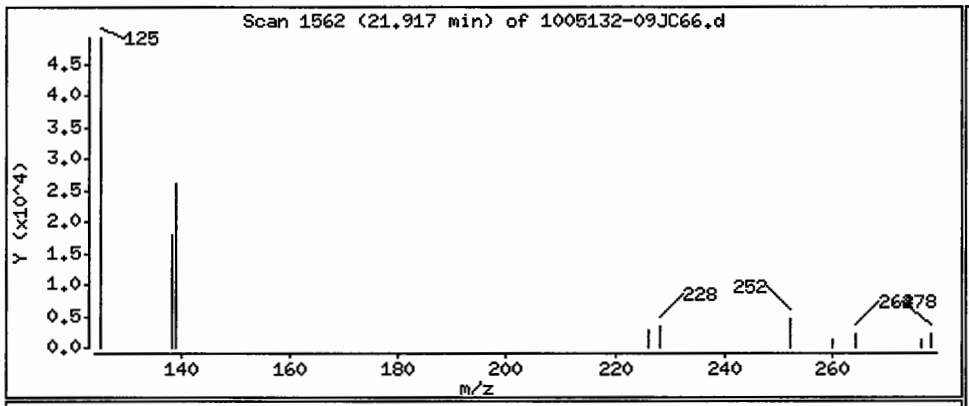
Client ID: SS62-0-1 Instrument: 5972hp66.i

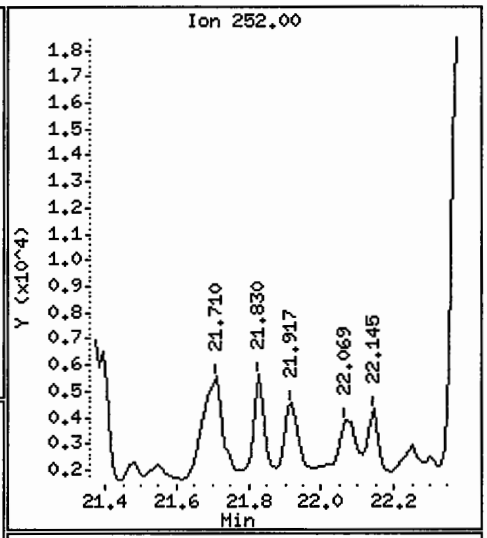
Sample Info: 1005132-09:2743

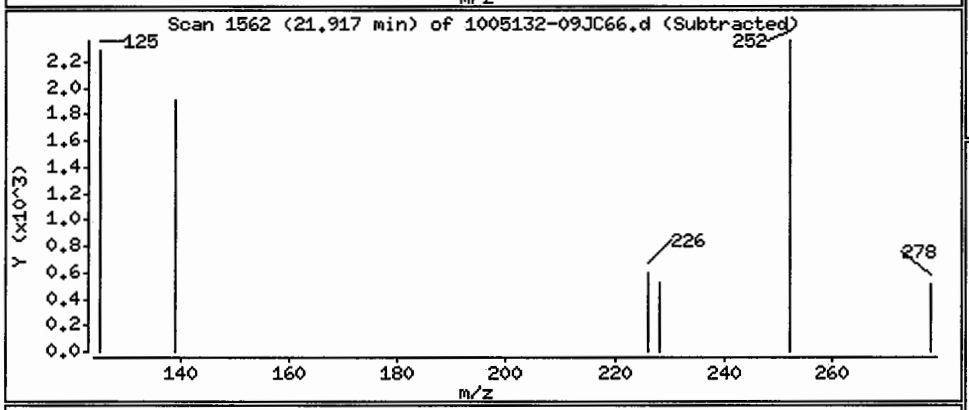
Volume Injected (uL): 2.0 Operator: 2743

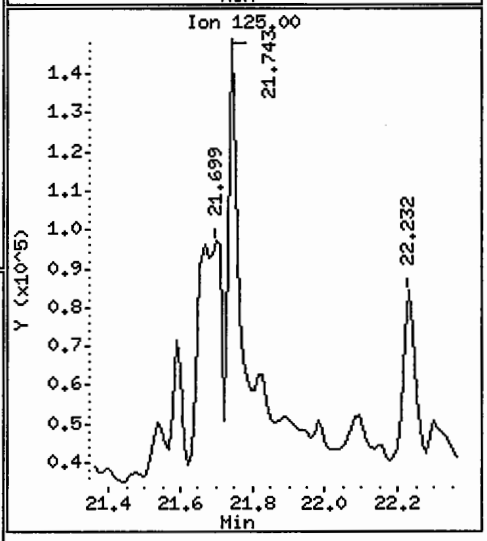
Column phase: Rtx-5MS Column diameter: 0.32

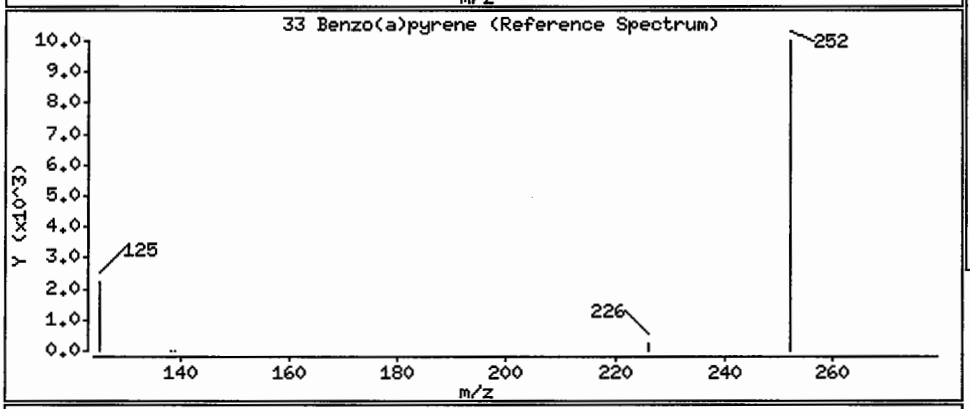
33 Benzo(a)pyrene Concentration: 7.8 ug/Kg

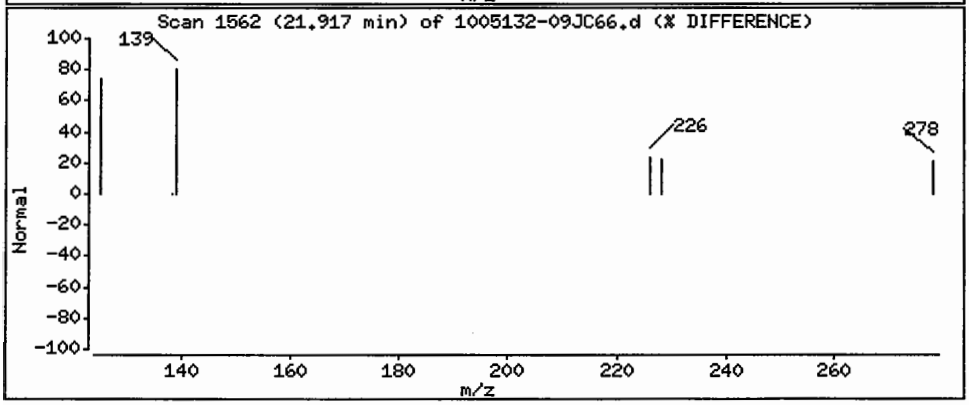












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d

Date : 27-MAY-2010 08:23

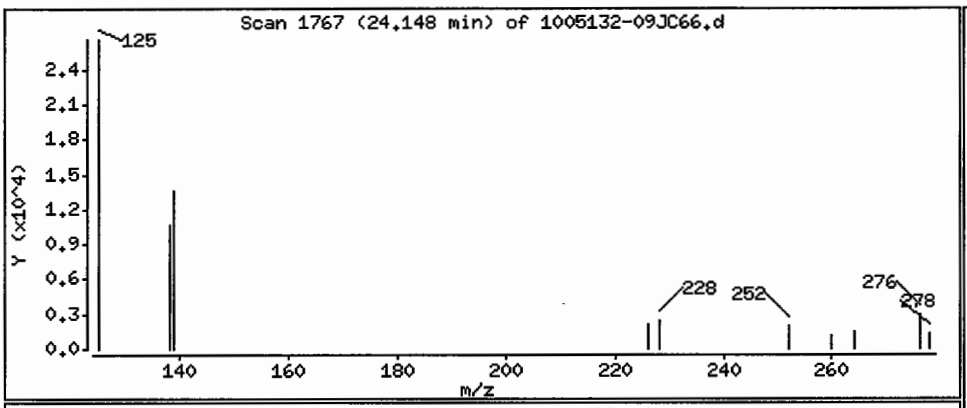
Client ID: SS62-0-1 Instrument: 5972hp66.i

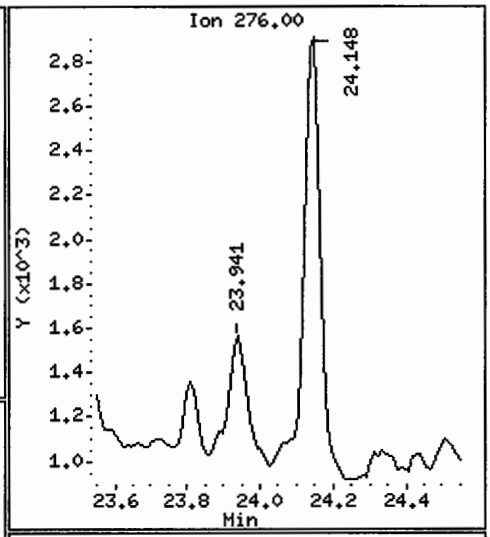
Sample Info: 1005132-09:2743

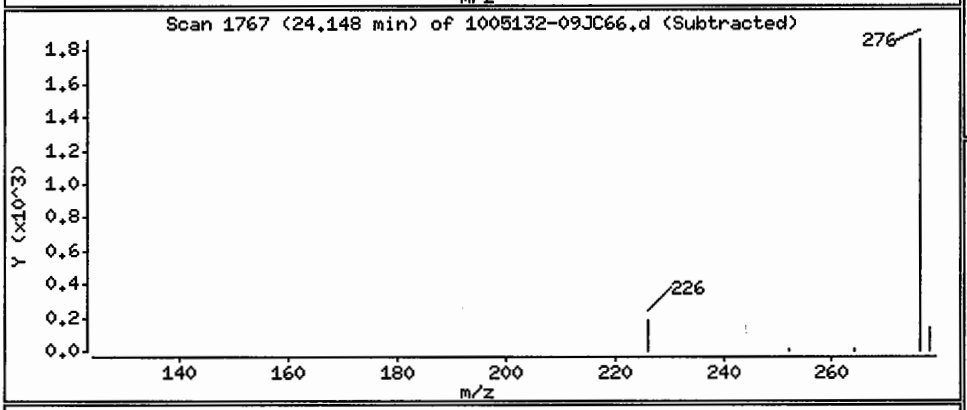
Volume Injected (uL): 2.0 Operator: 2743

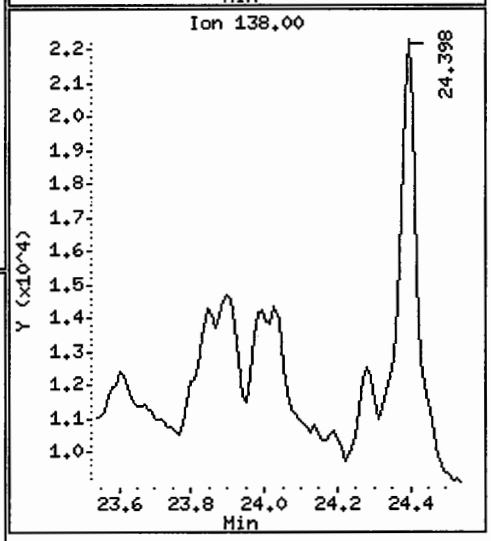
Column phase: Rtx-5MS Column diameter: 0.32

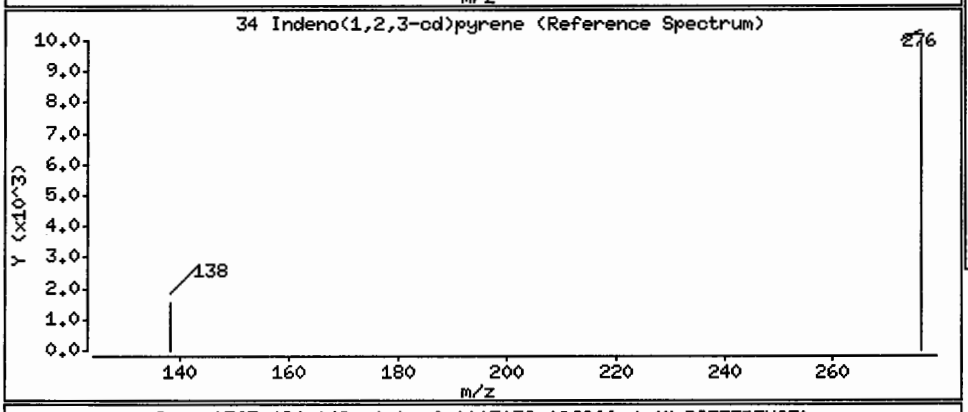
34 Indeno(1,2,3-cd)pyrene Concentration: 7.5 ug/Kg

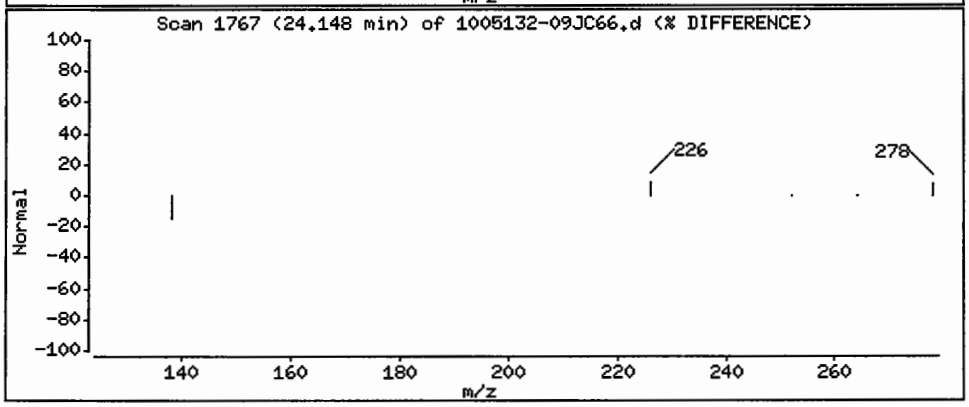






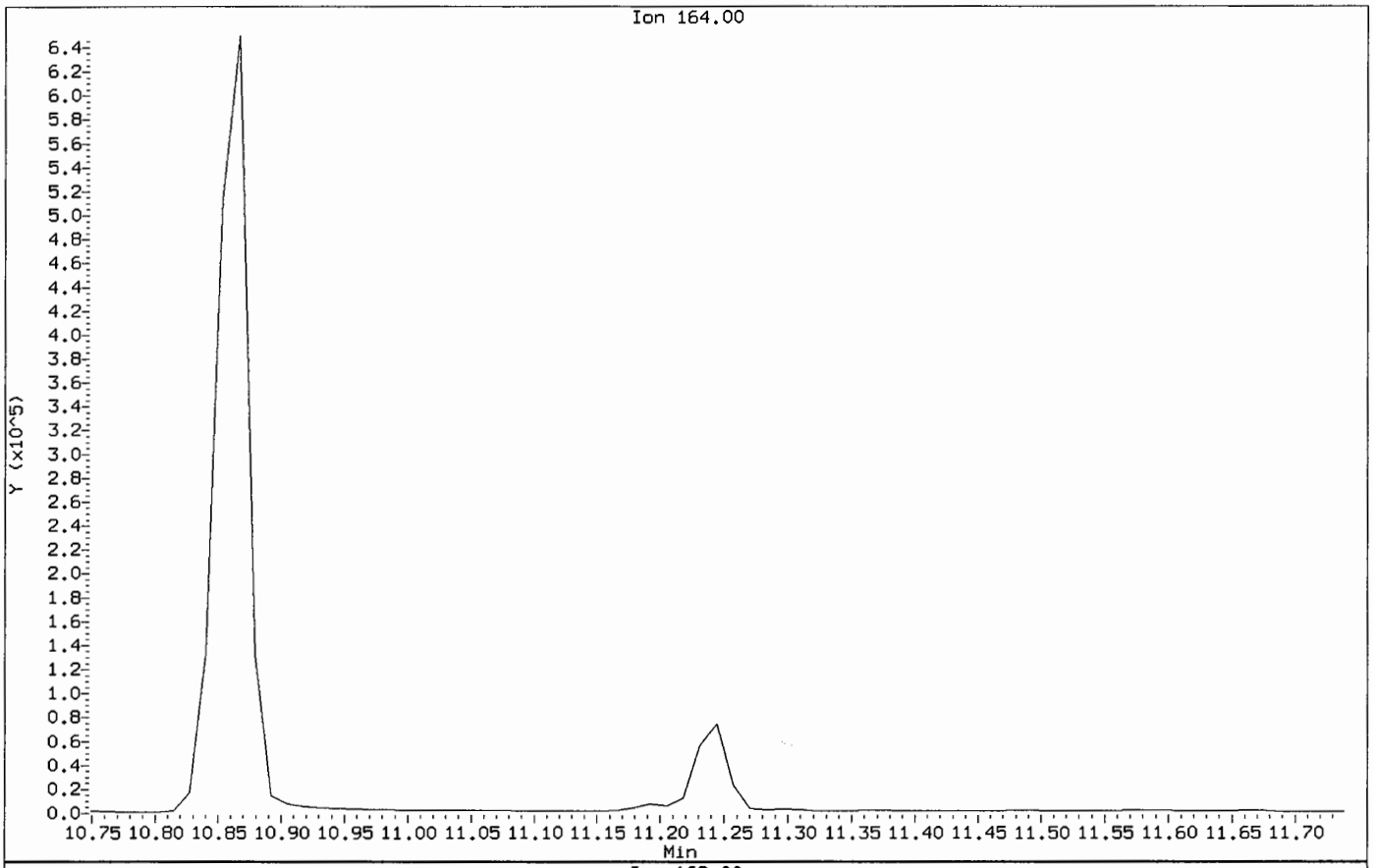


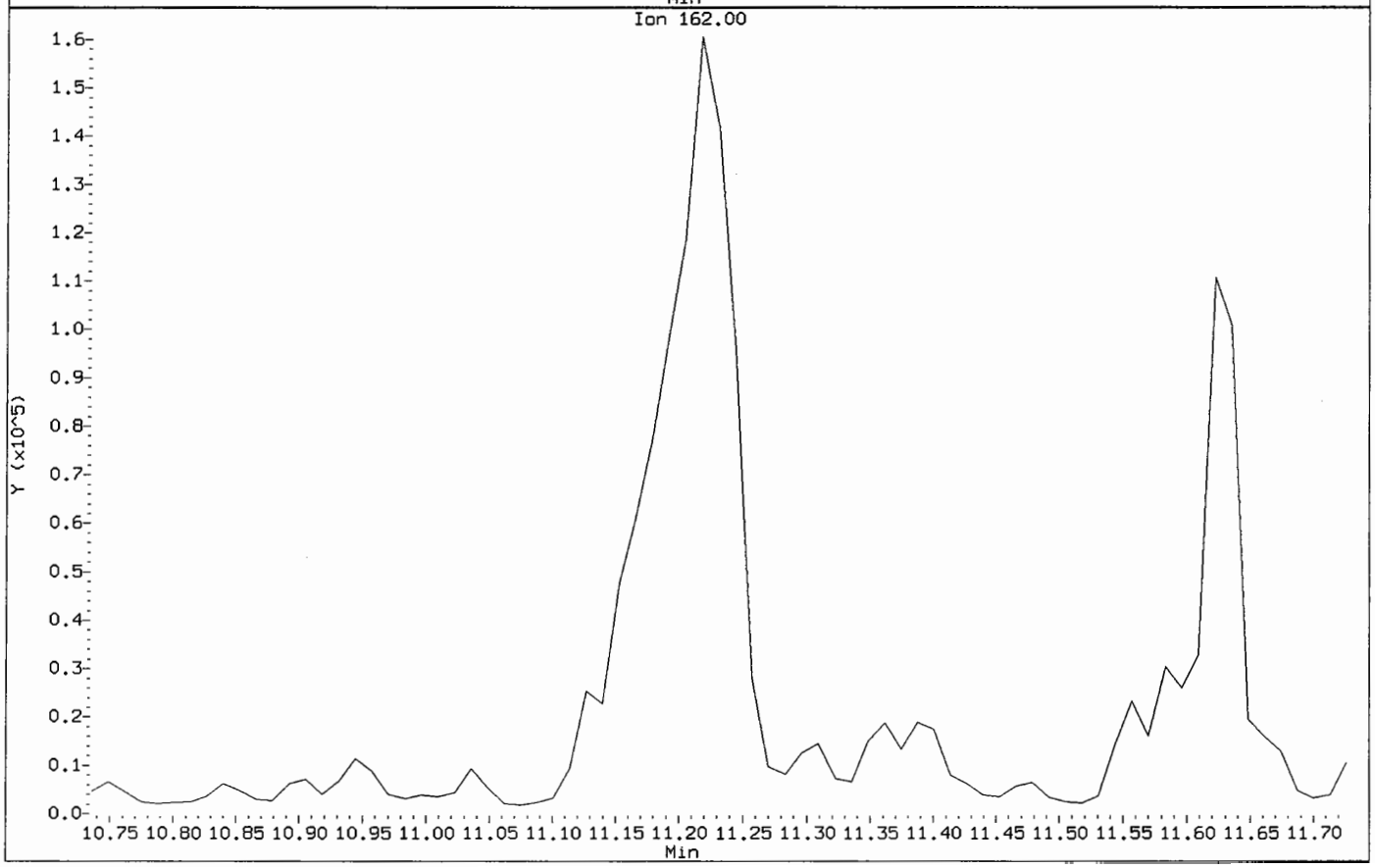




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Injection Date: 27-MAY-2010 08:23
Instrument: 5972hp66.i
Client Sample ID: SS62-0-1

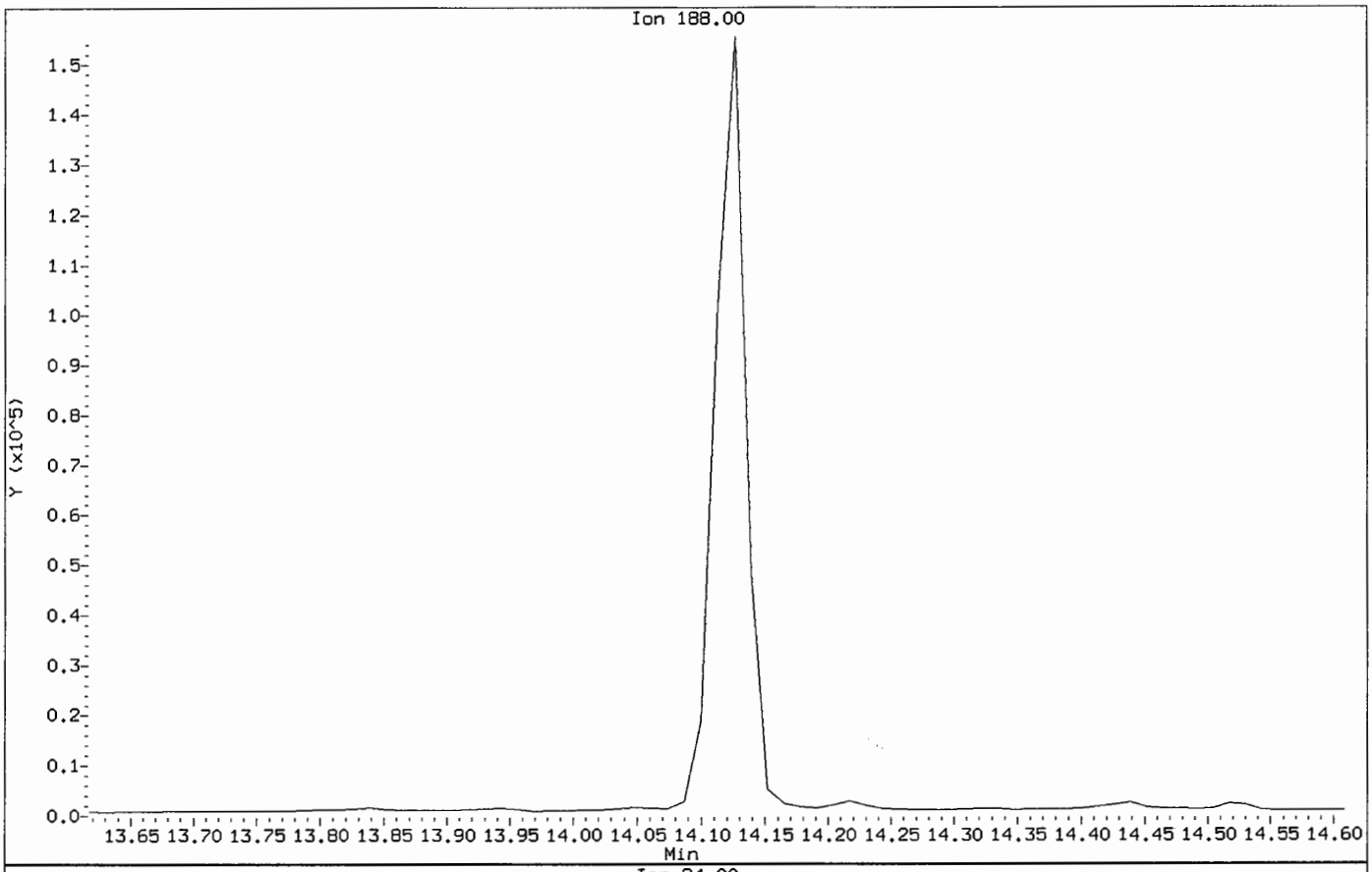
Compound: Acenaphthene-d10
CAS Number: 15067-26-2

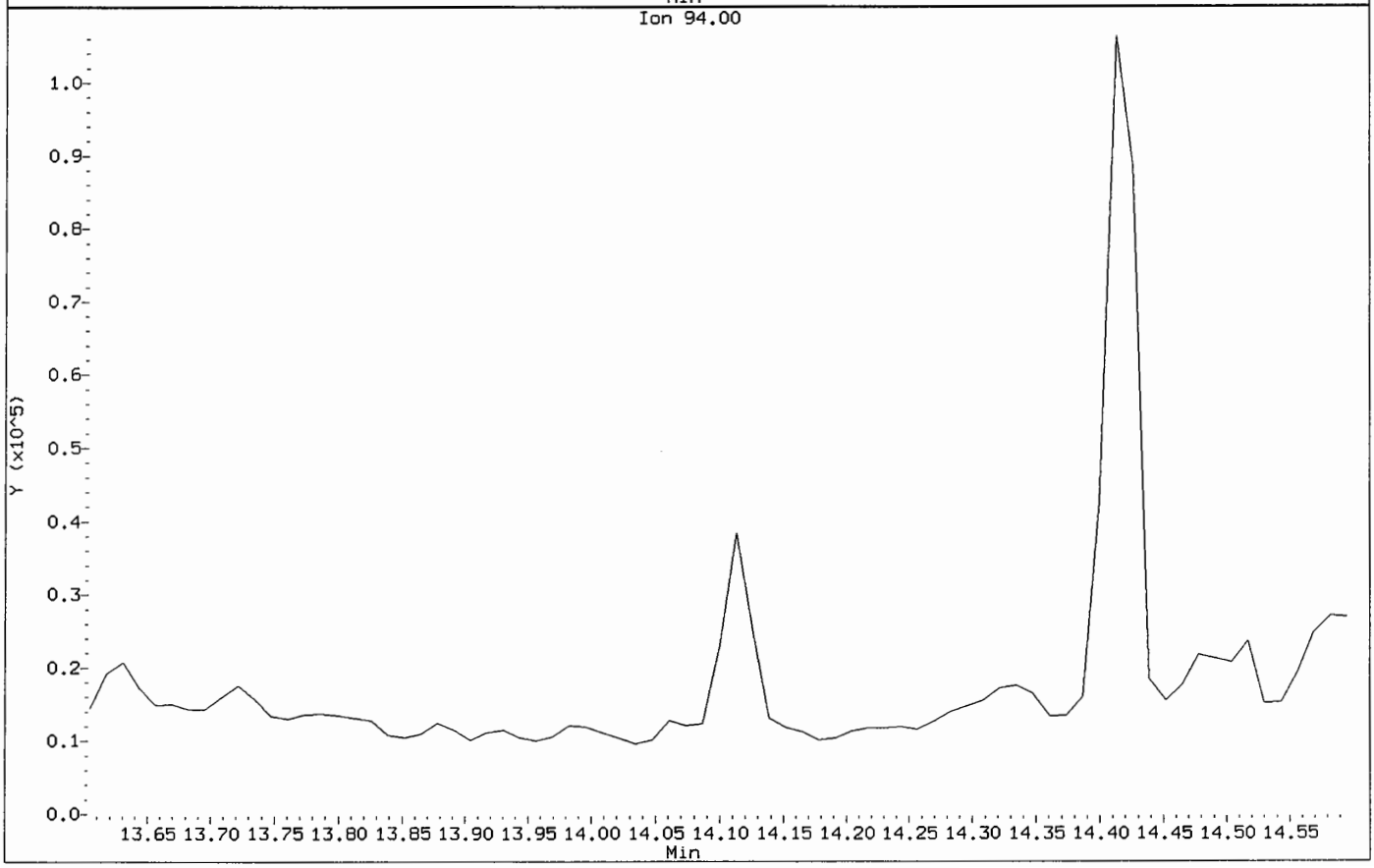




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Injection Date: 27-MAY-2010 08:23
Instrument: 5972hp66.i
Client Sample ID: SS62-0-1

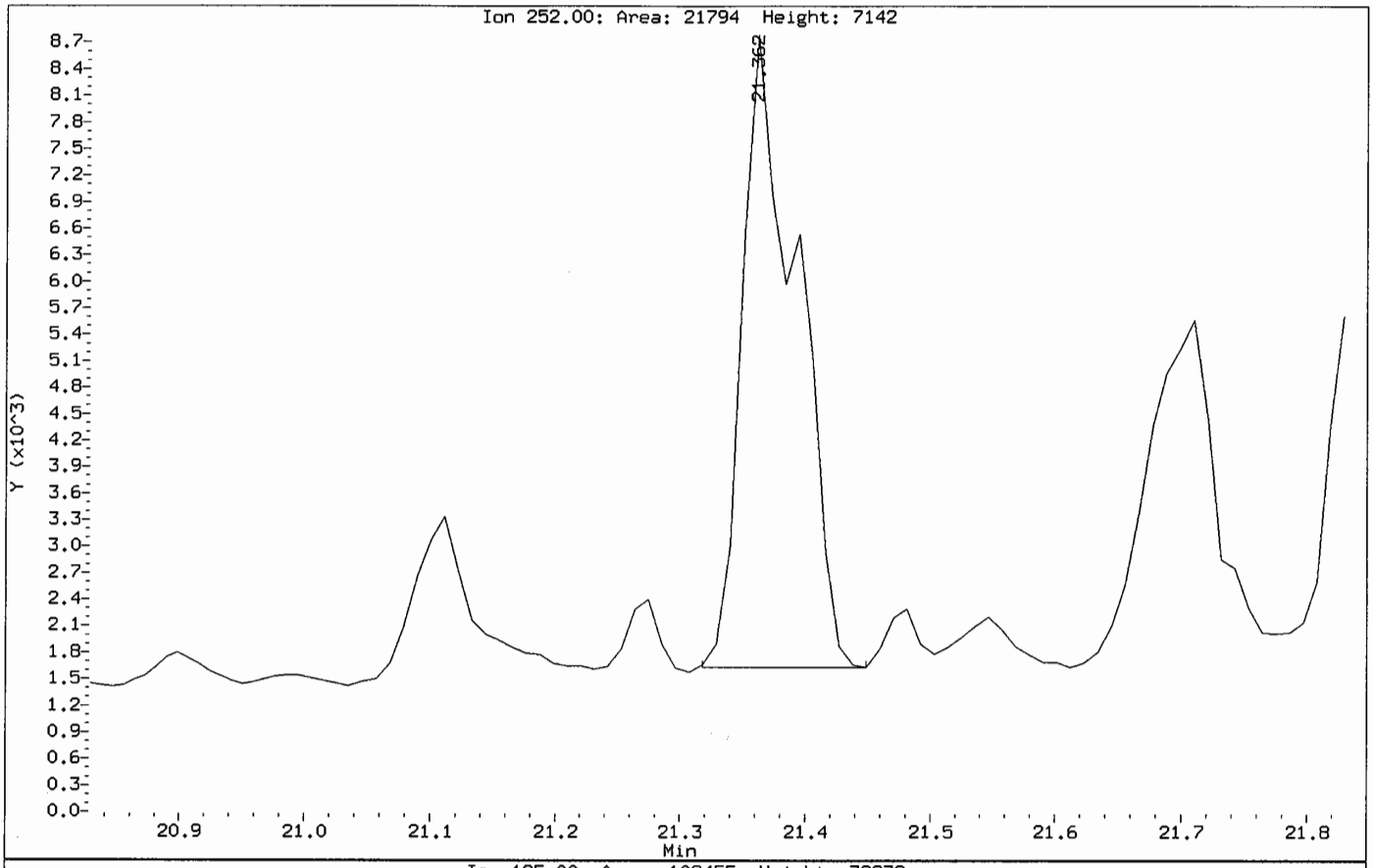
Compound: Phenanthrene-d10
CAS Number: 1517-22-2

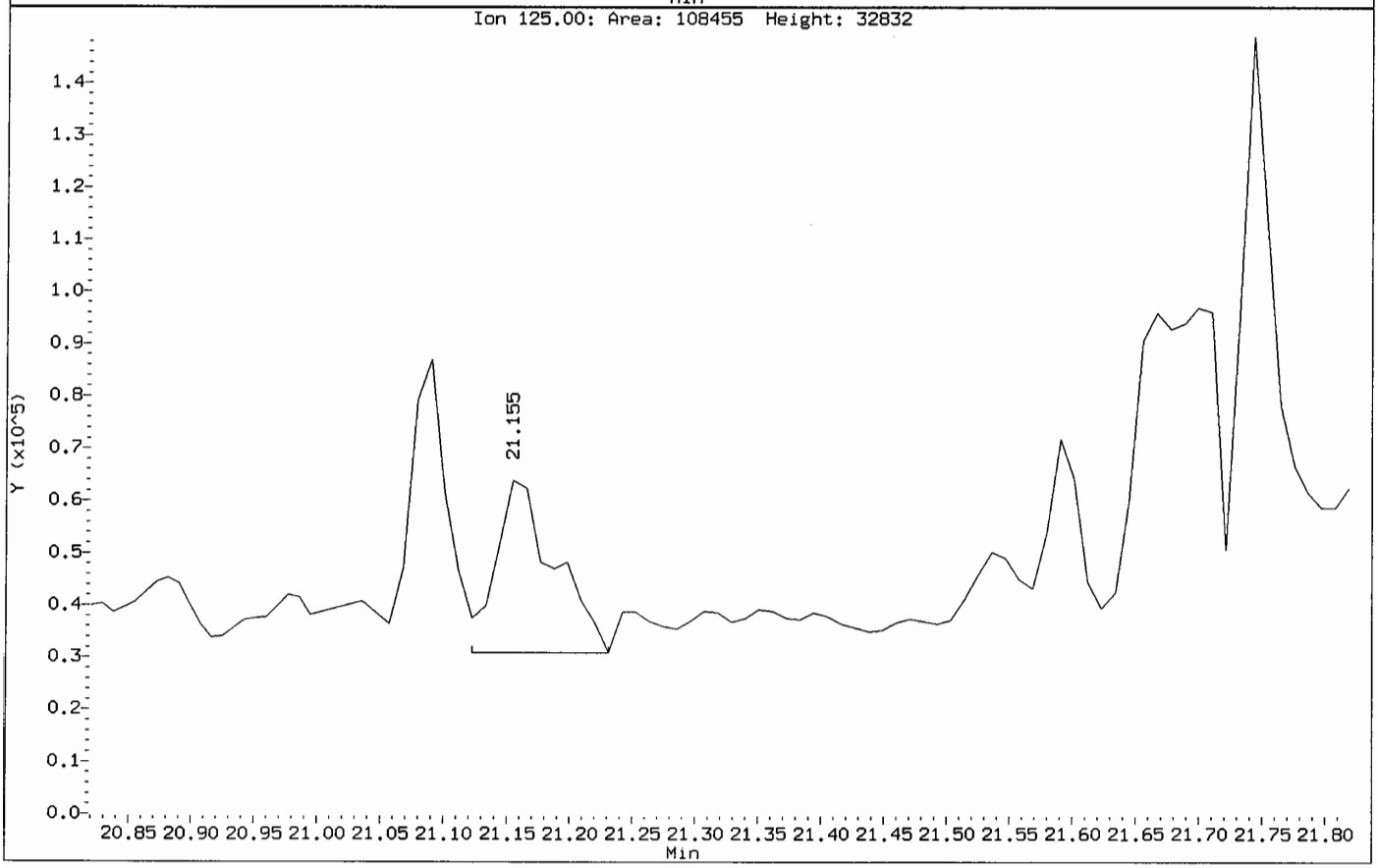




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Injection Date: 27-MAY-2010 08:23
Instrument: 5972hp66.i
Client Sample ID: SS62-0-1

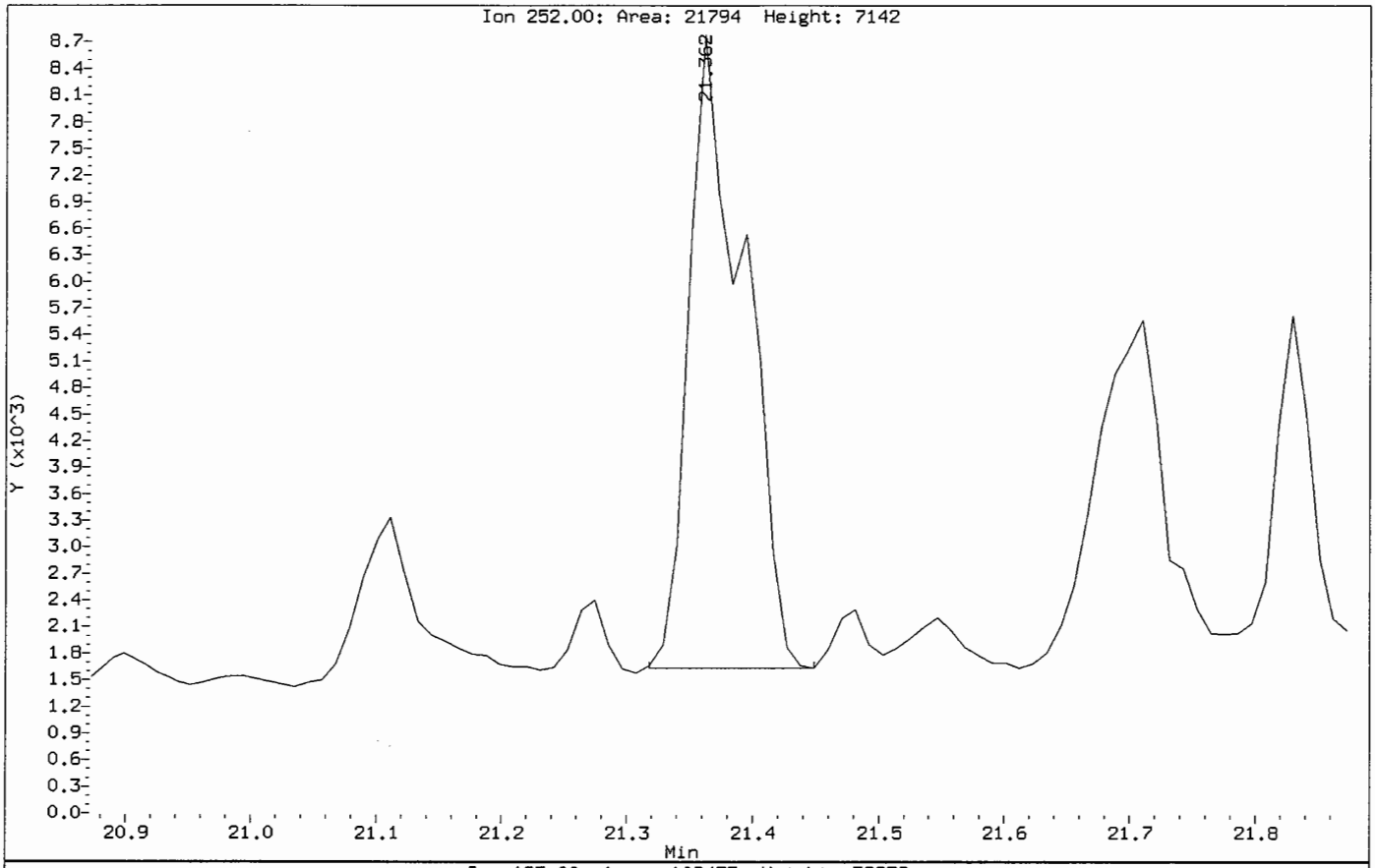
Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2

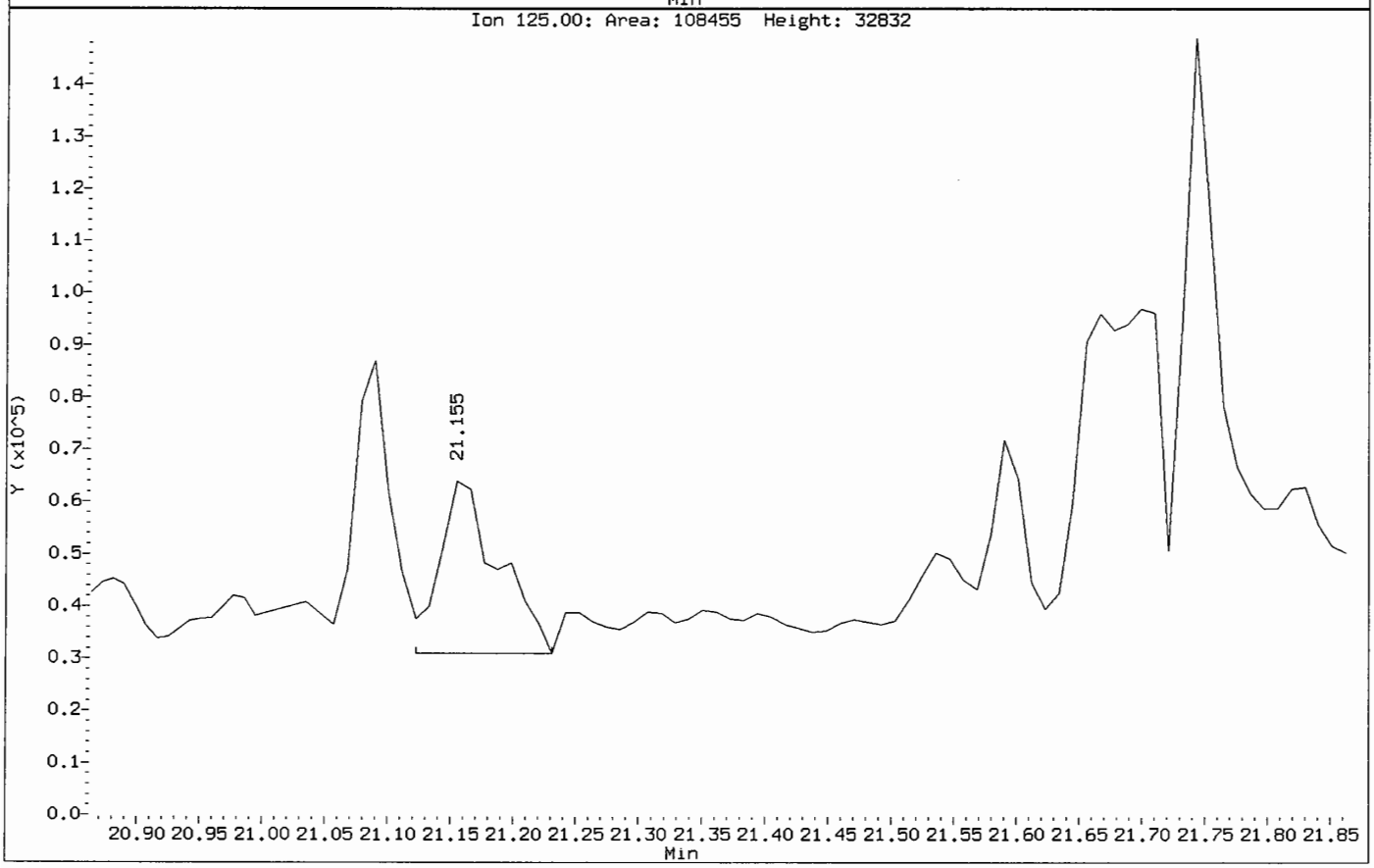




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-09JC66.d
Injection Date: 27-MAY-2010 08:23
Instrument: 5972hp66.i
Client Sample ID: SS62-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS71-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-17JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 9 decanted: (Y/N) N Date Extracted:05/24/10

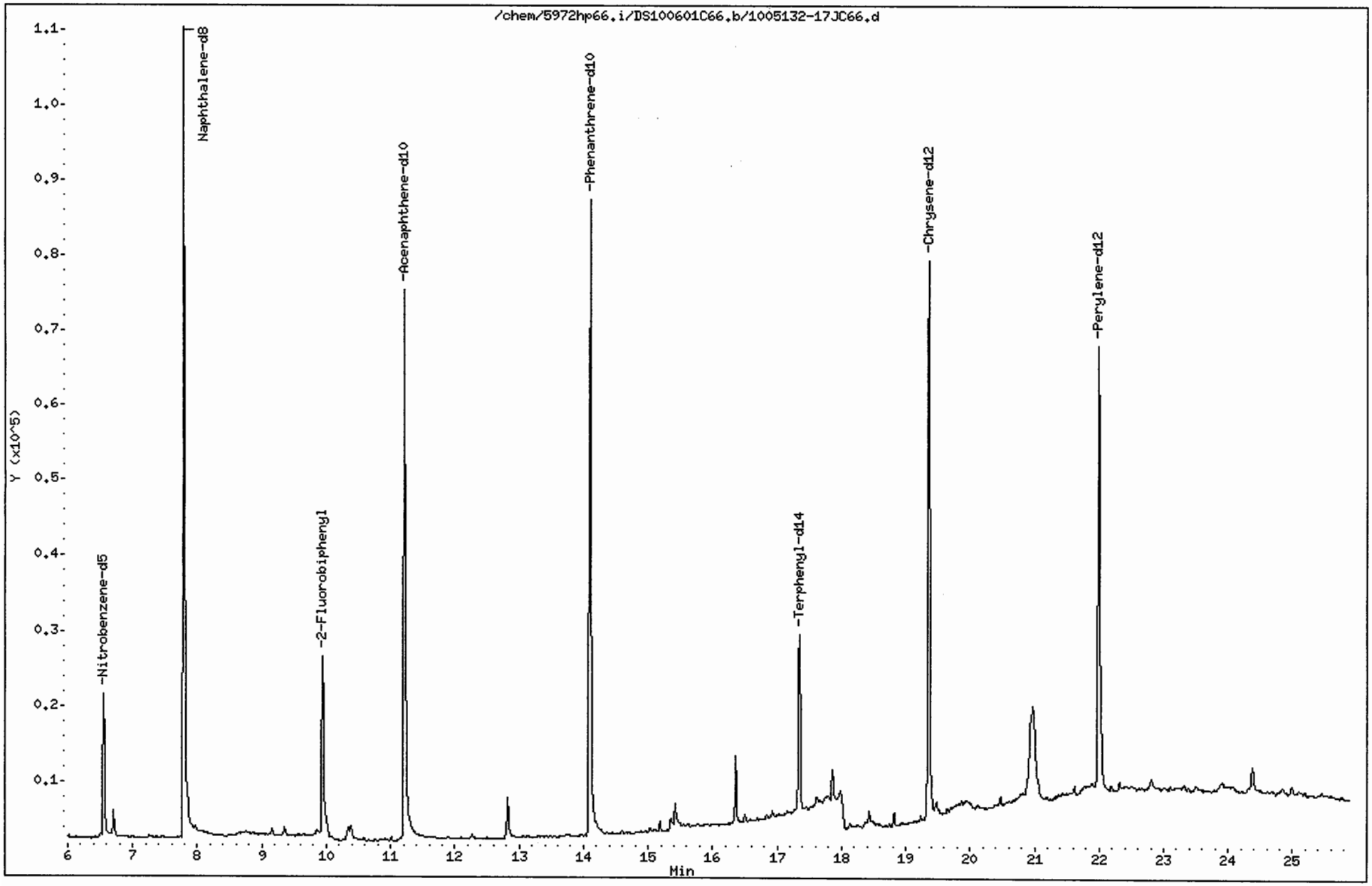
Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	9.1	U
86-73-7	Fluorene	9.1	U
85-01-8	Phenanthrene	9.1	U
120-12-7	Anthracene	9.1	U
206-44-0	Fluoranthene	9.1	U
129-00-0	Pyrene	9.1	U
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	9.1	U
205-99-2	Benzo(b)fluoranthene	9.1	U
207-08-9	Benzo(k)fluoranthene	9.1	U
50-32-8	Benzo(a)pyrene	9.1	U
193-39-5	Indeno(1,2,3-cd)pyrene	9.1	U
53-70-3	Dibenzo(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	9.1	U

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-17JC66.d
Date : 02-JUN-2010 03:21
Client ID: SS71-0-1
Instrument: 5972hp66.i
Sample Info: 1005132-17;2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601C66.b/1005132-17JC66.d
Report Date: 07-Jun-2010 11:48

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601C66.b/1005132-17JC66.d
Lab Smp Id: 1005132-17 Client Smp ID: SS71-0-1
Inj Date : 02-JUN-2010 03:21
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-17:2743
Misc Info : SS71-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601C66.b/SIM_8270Cv2DOD.m
Meth Date : 07-Jun-2010 10:54 mead Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	9.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.547	5.534	(1.000)	49969	2.00000	
*	2 Naphthalene-d8	136	7.789	7.789	(1.000)	173863	2.00000	
*	3 Acenaphthene-d10	164	11.217	11.205	(1.000)	80938	2.00000	
*	4 Phenanthrene-d10	188	14.100	14.100	(1.000)	134055	2.00000	
*	5 Chrysene-d12	240	19.354	19.354	(1.000)	116668	2.00000	
*	6 Perylene-d12	264	21.994	21.994	(1.000)	105615	2.00000	
$	9 Nitrobenzene-d5	82	6.551	6.537	(0.841)	25011	0.64648	12
$	10 2-Fluorobiphenyl	172	9.940	9.940	(0.886)	36843	0.43622	8.0(R)
$	12 Terphenyl-d14	244	17.347	17.346	(0.896)	33917	0.80011	15
	13 Naphthalene	128	Compound Not Detected.					
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

RW 6/8/10

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-17JC66.d
Report Date: 07-Jun-2010 11:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SS71D-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-18JC66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 9 decanted: (Y/N) N Date Extracted: 05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

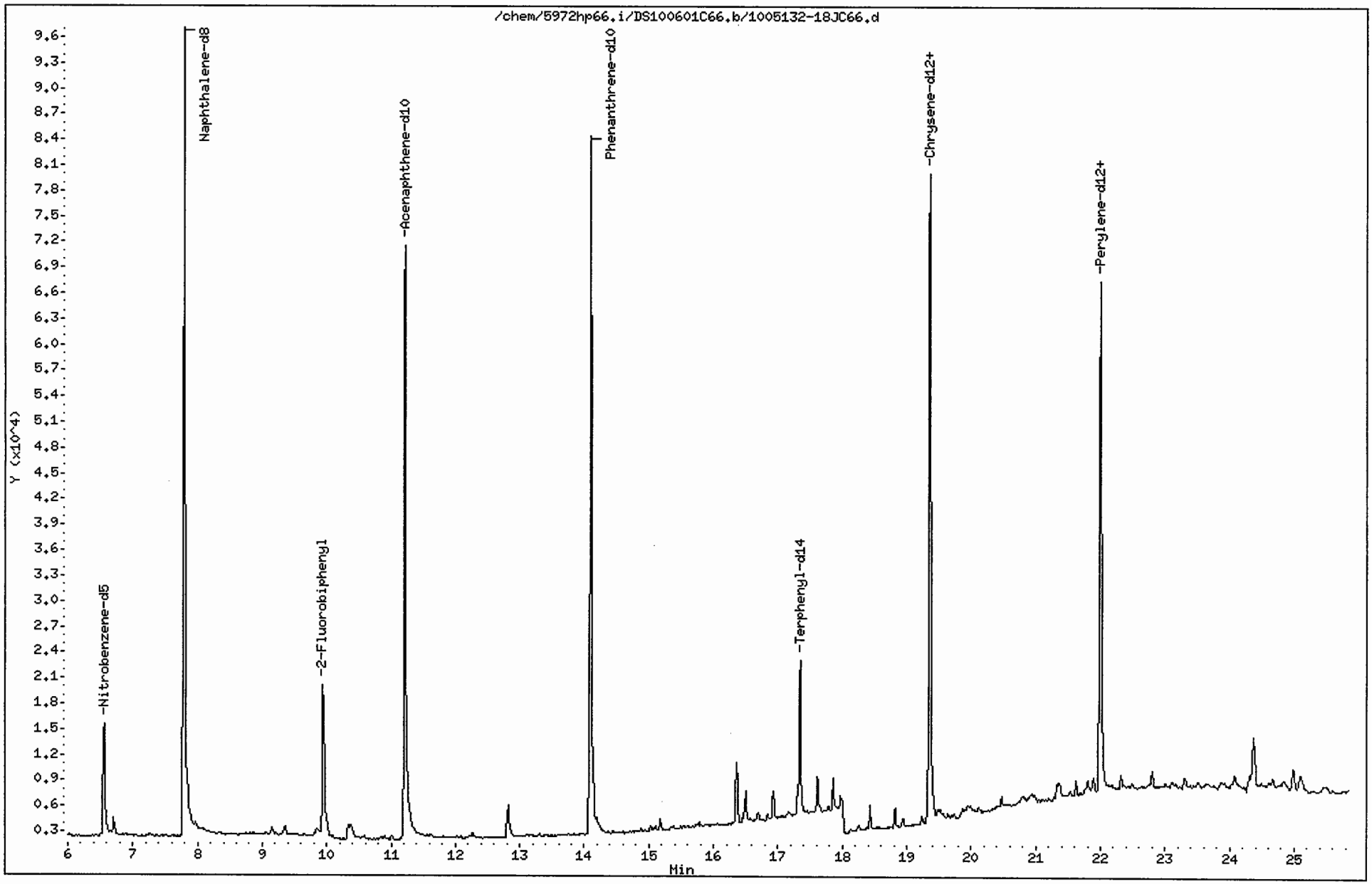
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	9.1	U
91-57-6	2-Methylnaphthalene	9.1	U
208-96-8	Acenaphthylene	9.1	U
83-32-9	Acenaphthene	9.1	U
86-73-7	Fluorene	9.1	U
85-01-8	Phenanthrene	9.1	U
120-12-7	Anthracene	9.1	U
206-44-0	Fluoranthene	9.1	U
129-00-0	Pyrene	1.0	J
56-55-3	Benzo(a)anthracene	9.1	U
218-01-9	Chrysene	0.75	J
205-99-2	Benzo(b)fluoranthene	0.69	J
207-08-9	Benzo(k)fluoranthene	0.91	J
50-32-8	Benzo(a)pyrene	0.59	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.78	J
53-70-3	Dibenzo(a,h)anthracene	9.1	U
191-24-2	Benzo(g,h,i)perylene	0.76	J

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Date : 02-JUN-2010 03:55
Client ID: SS71D-0-1
Sample Info: 1005132-18;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Report Date: 07-Jun-2010 11:48

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Lab Smp Id: 1005132-18 Client Smp ID: SS71D-0-1
Inj Date : 02-JUN-2010 03:55
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-18:2743
Misc Info : SS71D-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601C66.b/SIM_8270Cv2DOD.m
Meth Date : 07-Jun-2010 10:54 mead Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	9.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1	1,4-Dichlorobenzene-d4	152	5.547	5.534	(1.000)	48713	2.00000	
* 2	Naphthalene-d8	136	7.789	7.789	(1.000)	169775	2.00000	
* 3	Acenaphthene-d10	164	11.218	11.205	(1.000)	77215	2.00000	
* 4	Phenanthrene-d10	188	14.100	14.100	(1.000)	131026	2.00000	
* 5	Chrysene-d12	240	19.354	19.354	(1.000)	120691	2.00000	
* 6	Perylene-d12	264	21.994	21.994	(1.000)	102556	2.00000	
$ 9	Nitrobenzene-d5	82	6.564	6.537	(0.843)	20322	0.53793	9.9
$ 10	2-Fluorobiphenyl	172	9.940	9.940	(0.886)	30365	0.37685	6.9(R)
$ 12	Terphenyl-d14	244	17.346	17.346	(0.896)	26320	0.60020	11
13	Naphthalene	128	Compound Not Detected.					
15	2-Methylnaphthalene	141	Compound Not Detected.					
17	Acenaphthylene	152	Compound Not Detected.					
18	Acenaphthene	154	Compound Not Detected.					

RW 6/8/10

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Report Date: 07-Jun-2010 11:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.929	16.929	(0.875)	4836	0.05549	1.0(a)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	19.398	19.397	(1.002)	2915	0.04102	0.75(a)
31 Benzo(b)fluoranthene	252	21.341	21.330	(0.970)	2563	0.03789	0.69(a)
32 Benzo(k)fluoranthene	252	21.374	21.374	(0.972)	3627	0.04983	0.91(aM)
33 Benzo(a)pyrene	252	21.885	21.885	(0.995)	1954	0.03206	0.59(a)
34 Indeno(1,2,3-cd)pyrene	276	24.073	24.073	(1.095)	2277	0.04235	0.78(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.672	24.661	(1.122)	2489	0.04176	0.76(aM)

2
2
x2

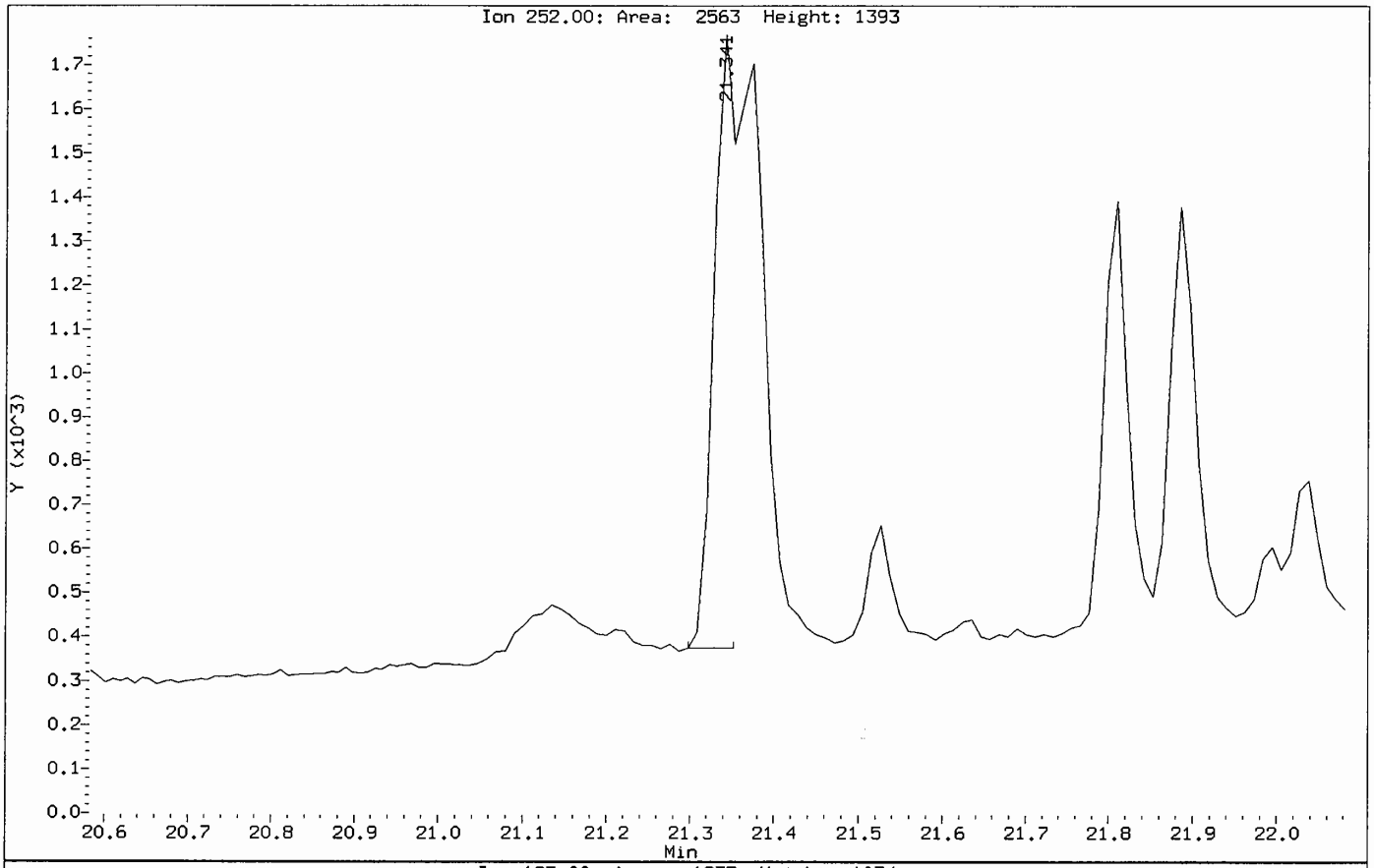
pw 6/8/10

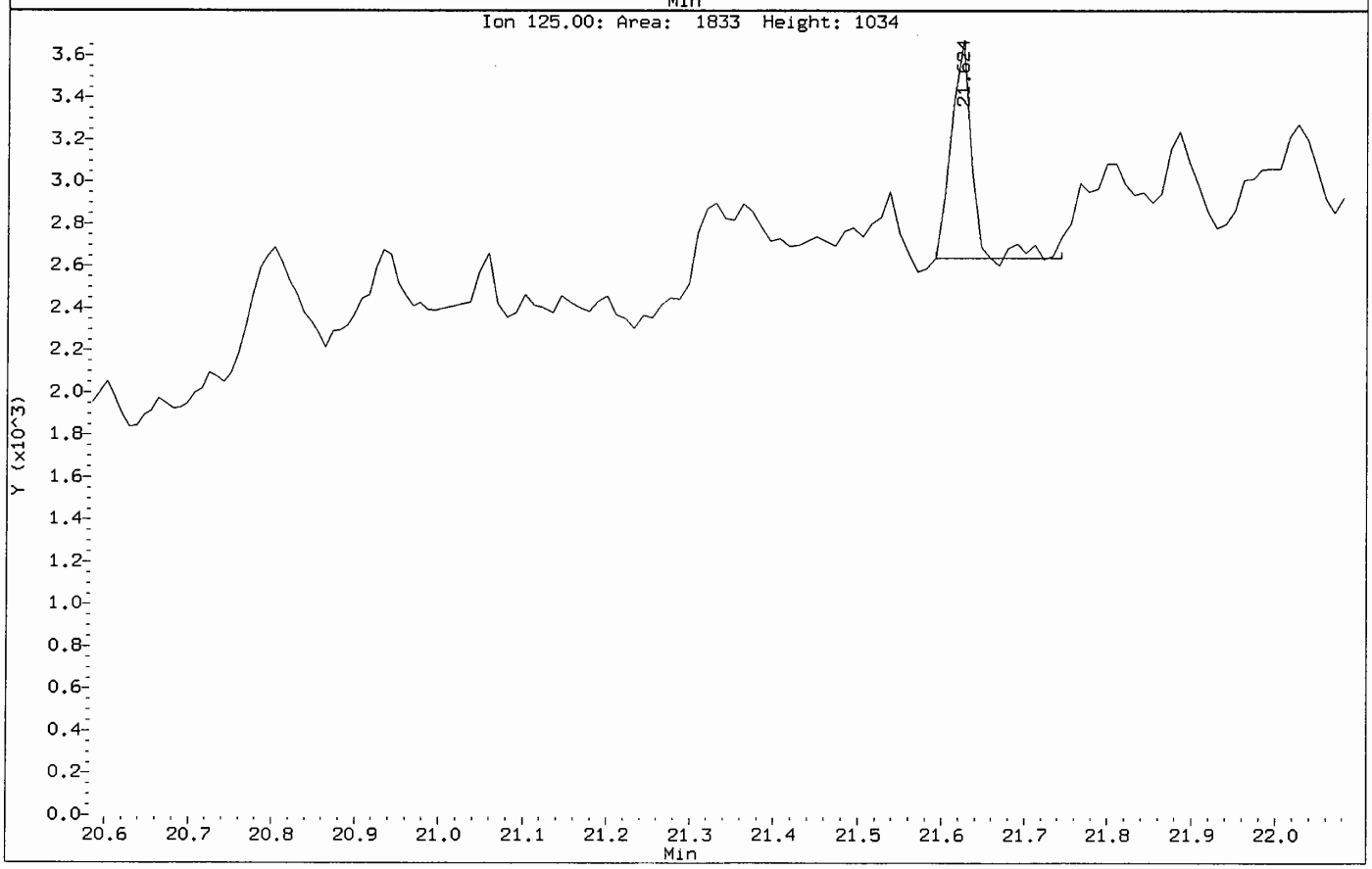
QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Injection Date: 02-JUN-2010 03:55
Instrument: 5972hp66.i
Client Sample ID: SS71D-0-1

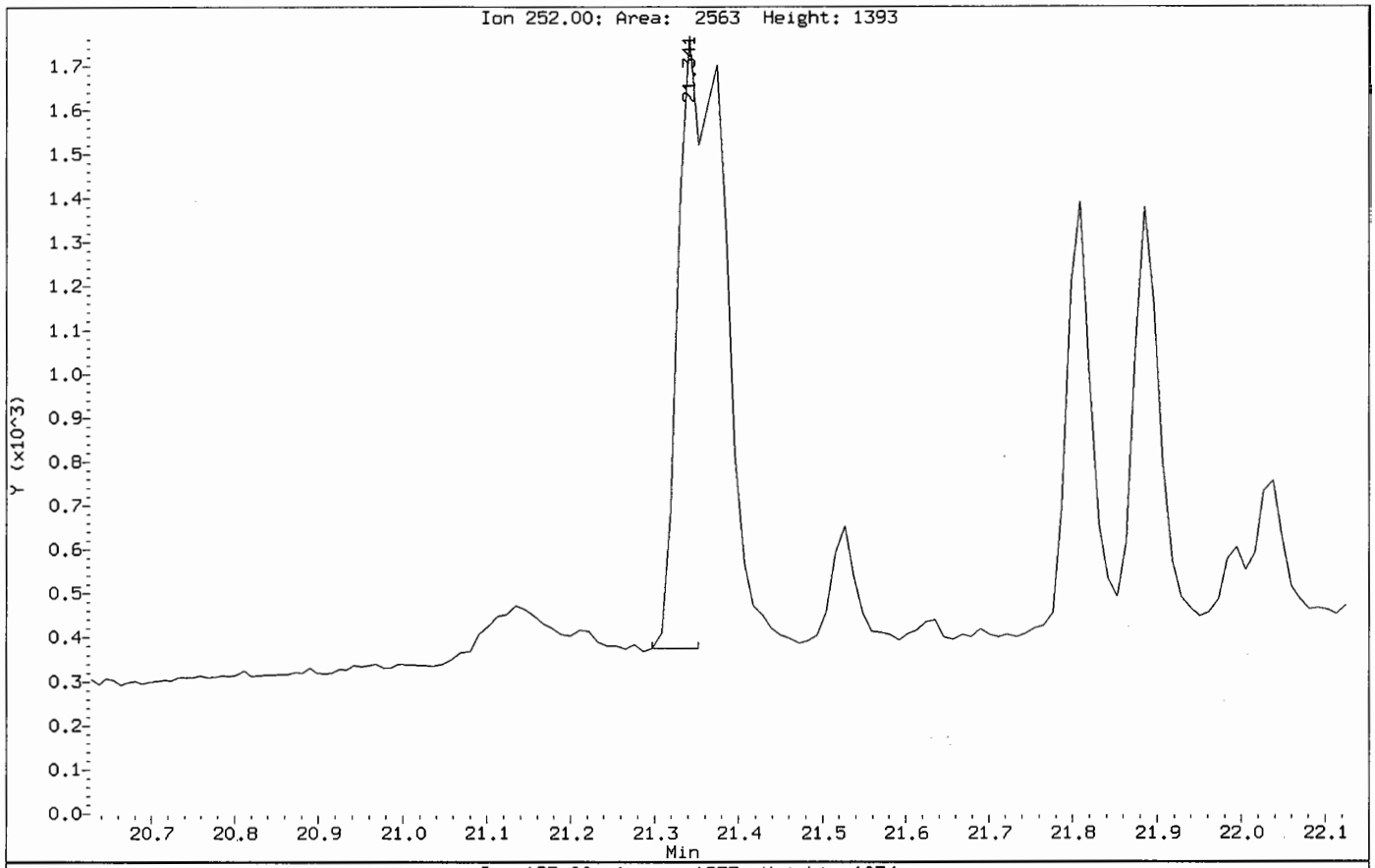
Compound: Benzo(b)fluoranthene
CAS Number: 205-99-2

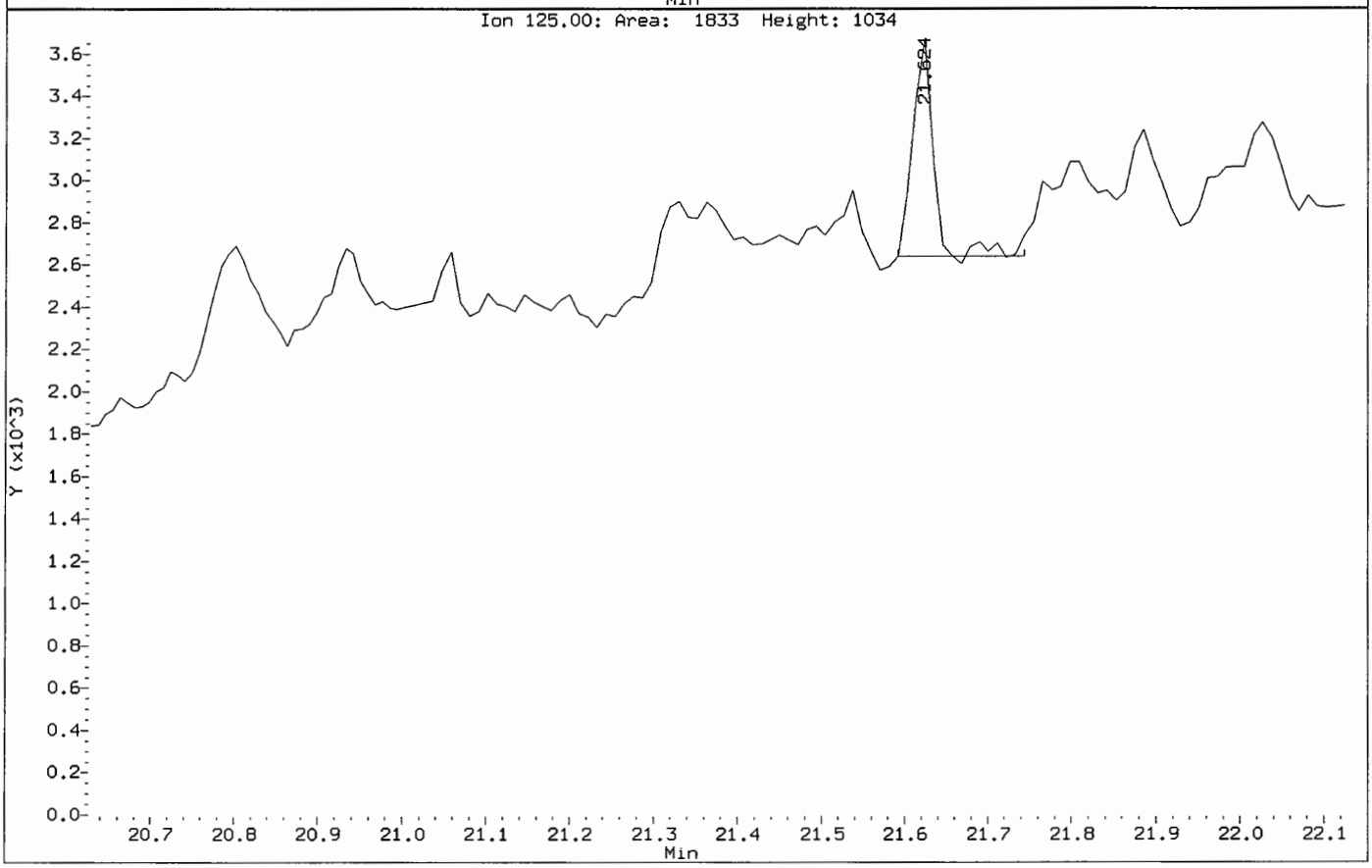




Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Injection Date: 02-JUN-2010 03:55
Instrument: 5972hp66.i
Client Sample ID: SS71D-0-1

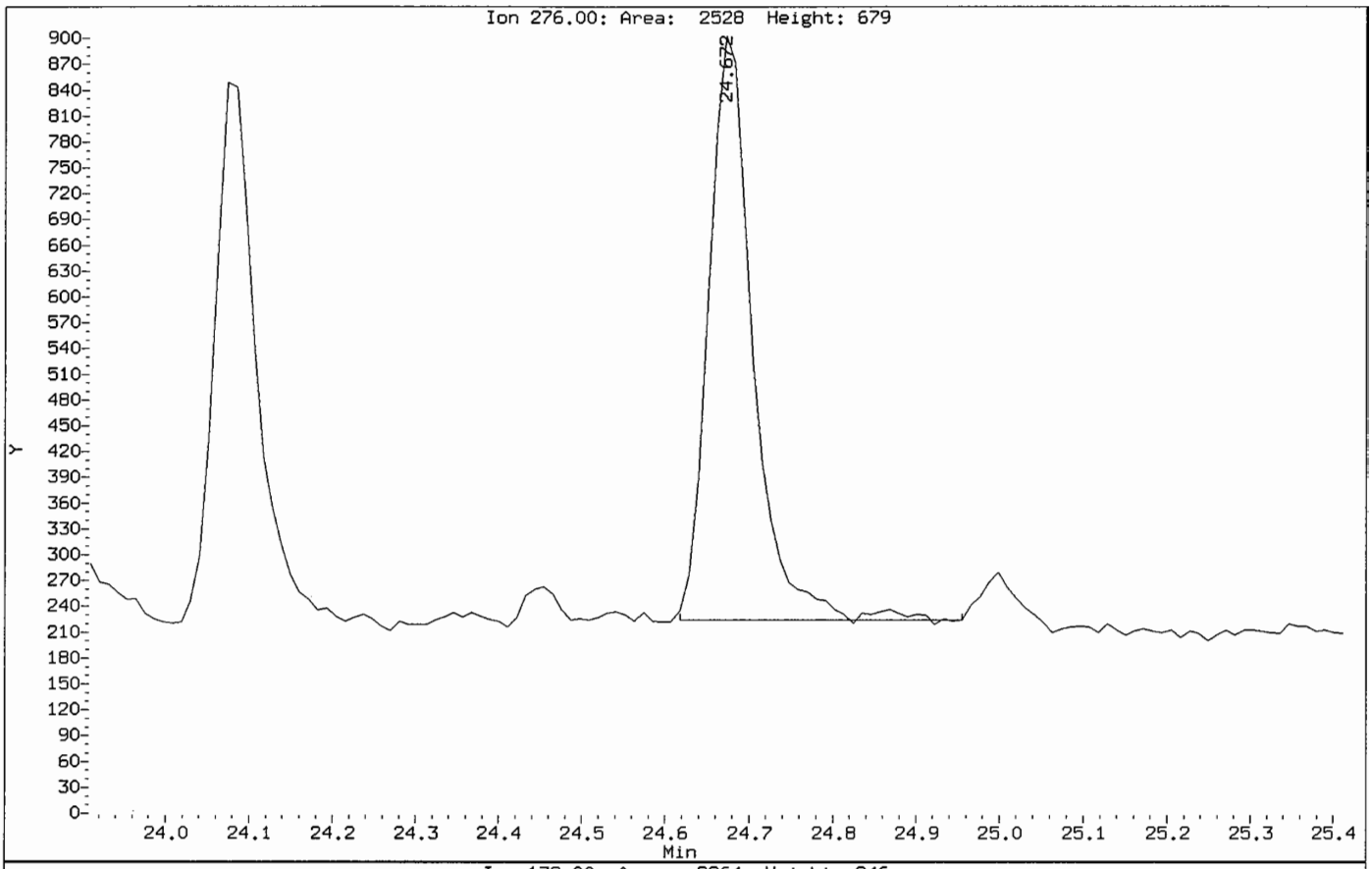
Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

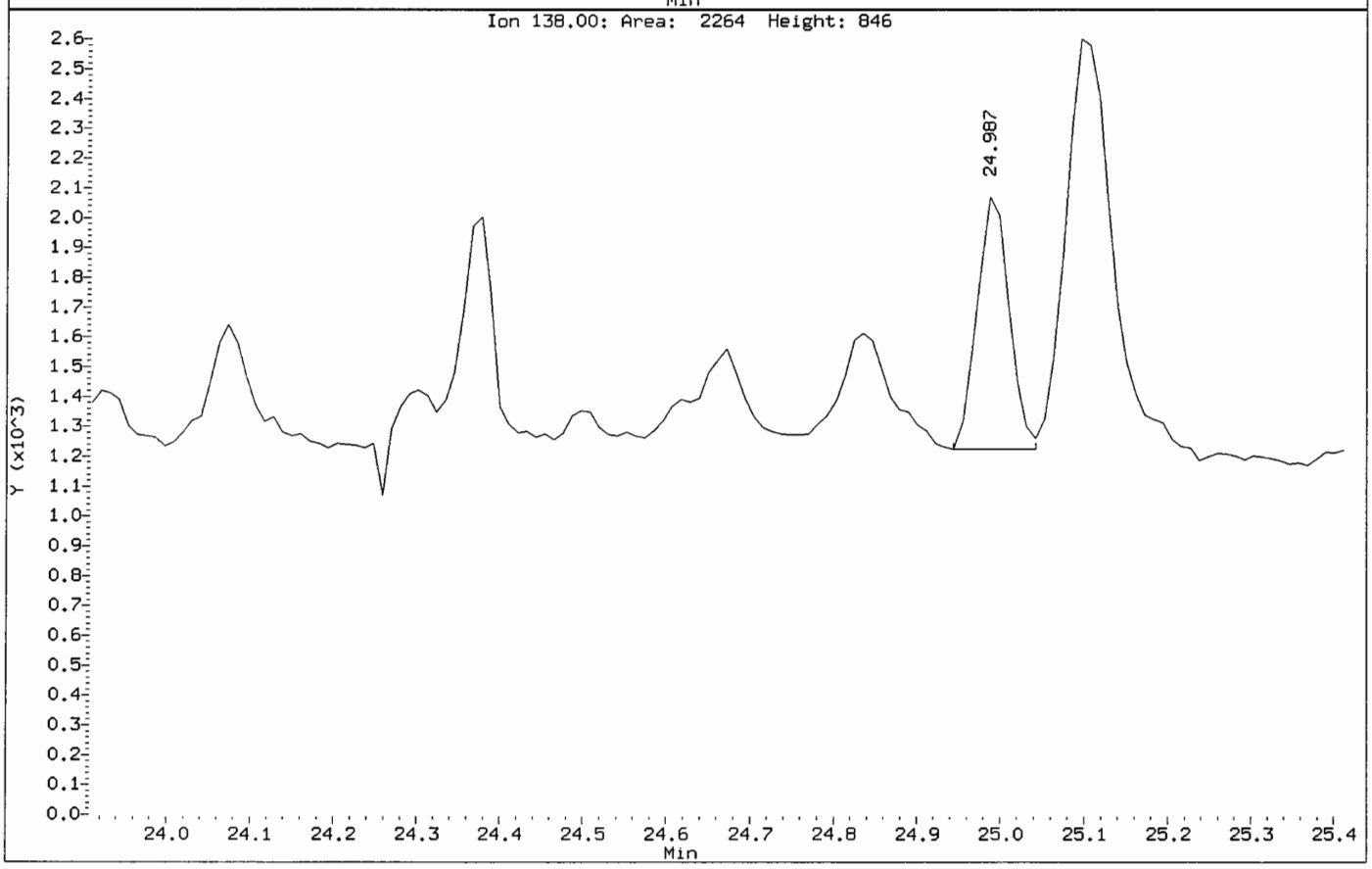




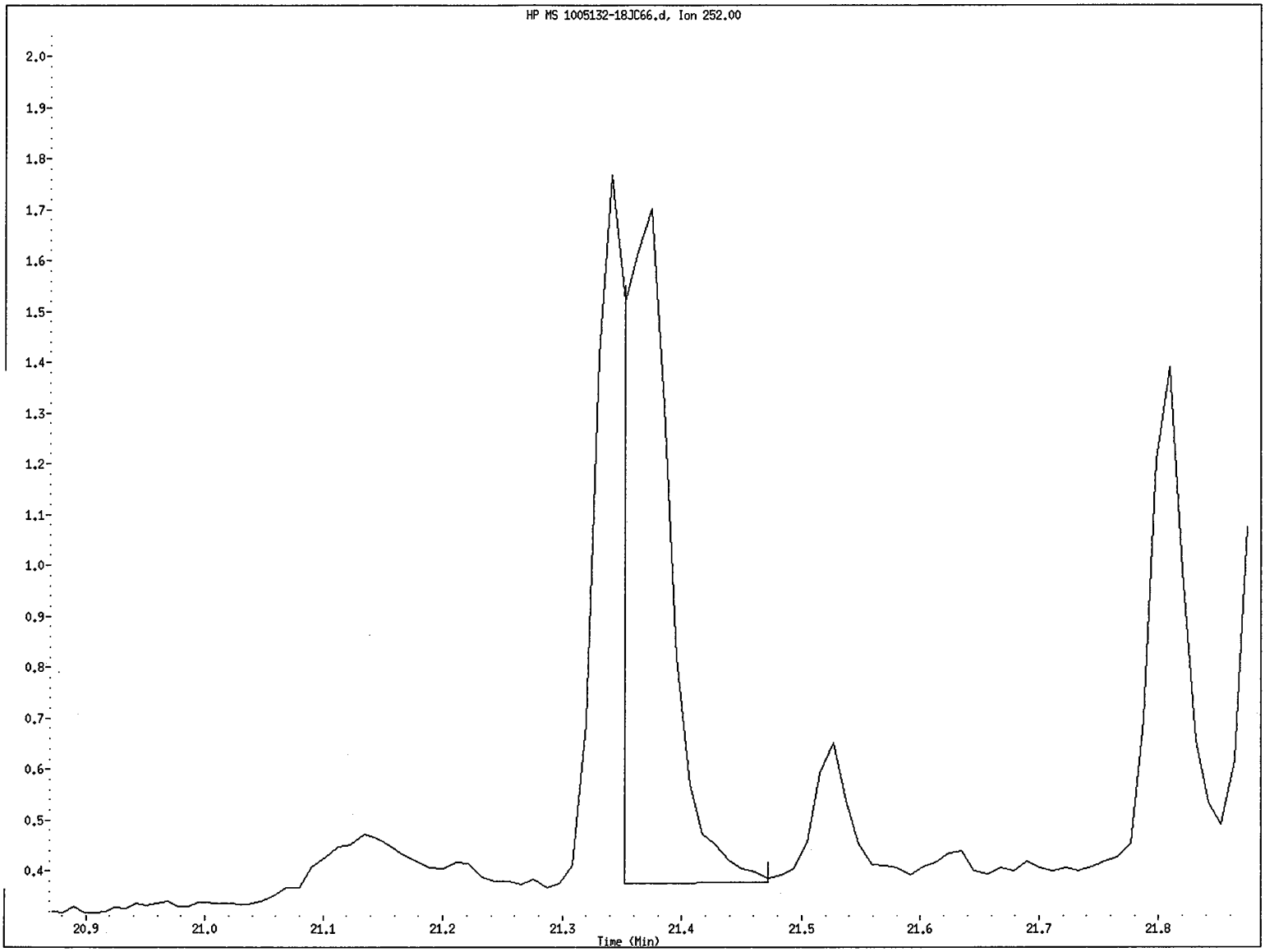
Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Injection Date: 02-JUN-2010 03:55
Instrument: 5972hp66.i
Client Sample ID: SS71D-0-1

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2



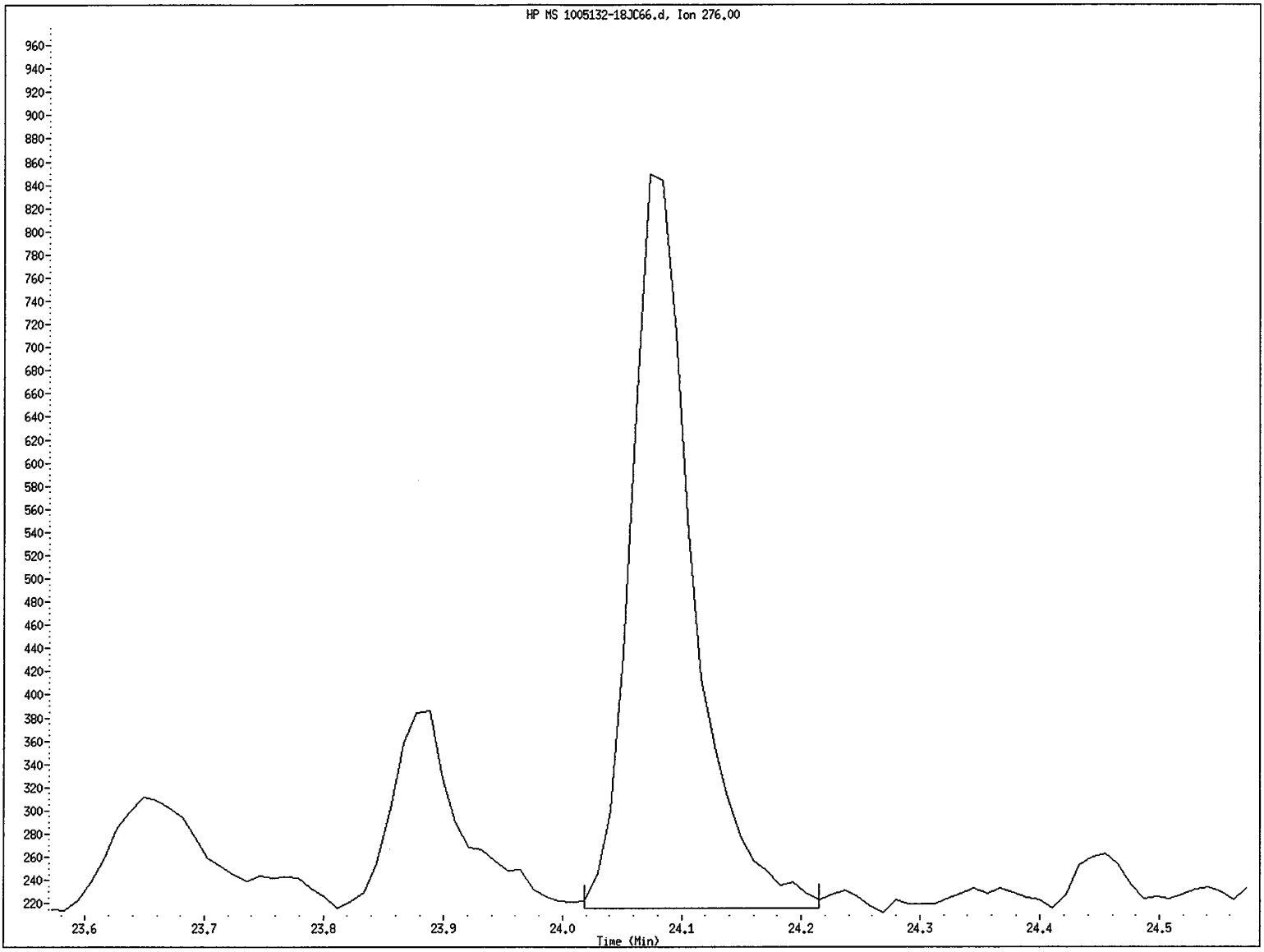


Benzo(k)fluoranthene CAS Number 207-08-9 Area = 3627 Manually integrated



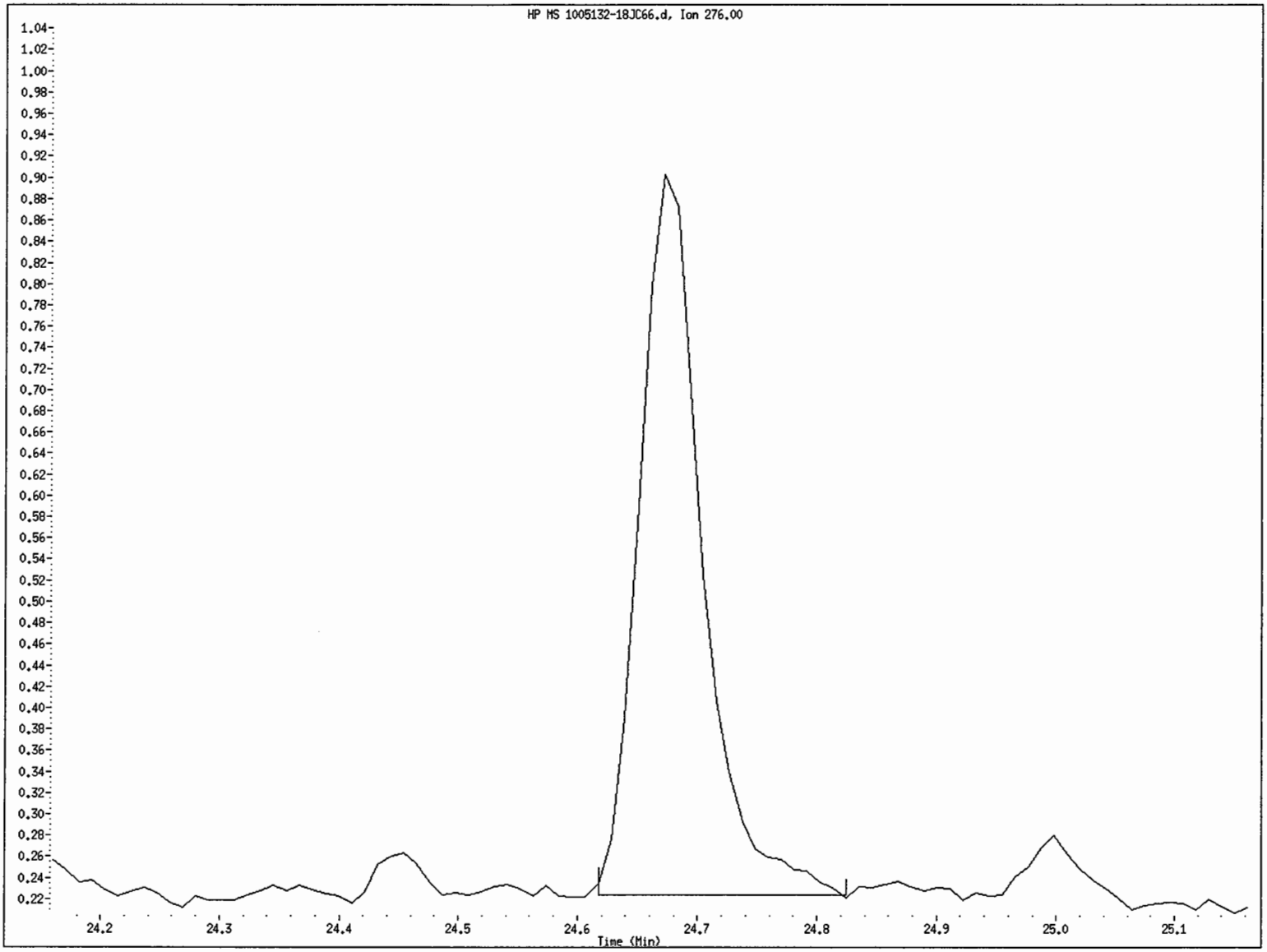
File name: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Client ID: SS71D-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 02-JUN-2010 03:55
Retention Time: 21.37
Operator ID: 2743

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 2277 Manually integrated



File name: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Client ID: SS71D-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 02-JUN-2010 03:55
Retention Time: 24.07
Operator ID: 2743

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 2489 Manually integrated



File name: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d
Client ID: SS71D-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 02-JUN-2010 03:55
Retention Time: 24.67
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d

Date : 02-JUN-2010 03:55

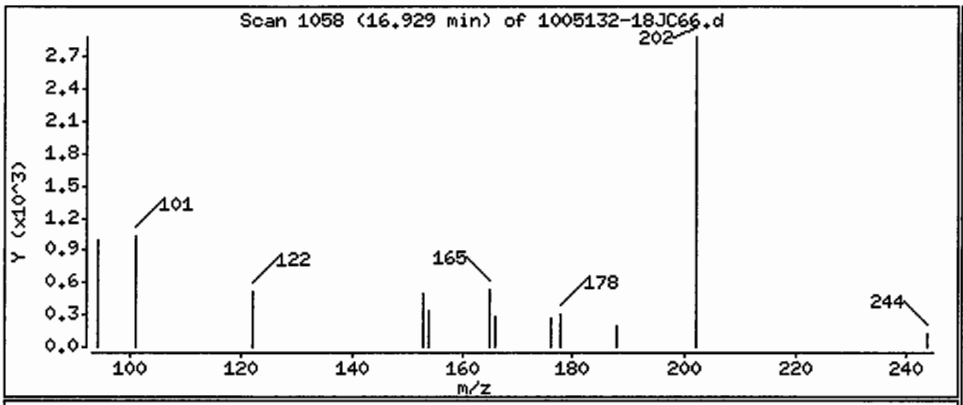
Client ID: SS71D-0-1 Instrument: 5972hp66.i

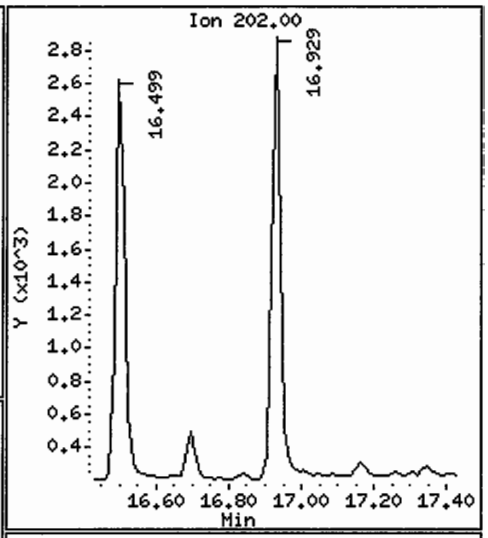
Sample Info: 1005132-18:2743

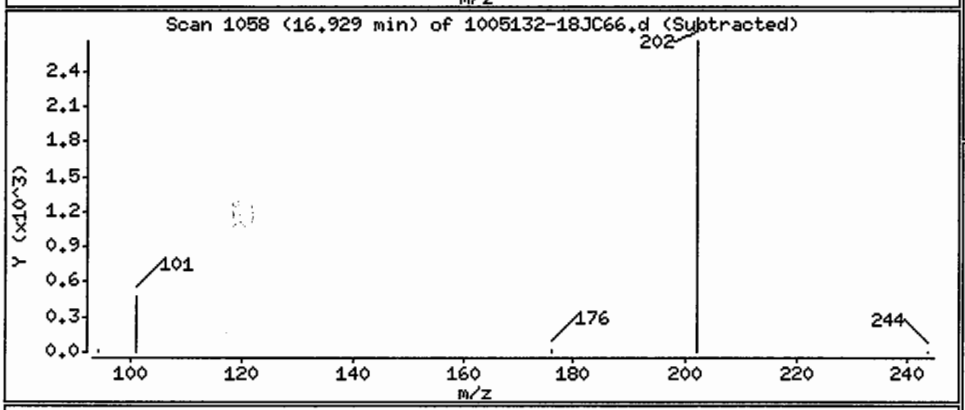
Volume Injected (uL): 2.0 Operator: 2743

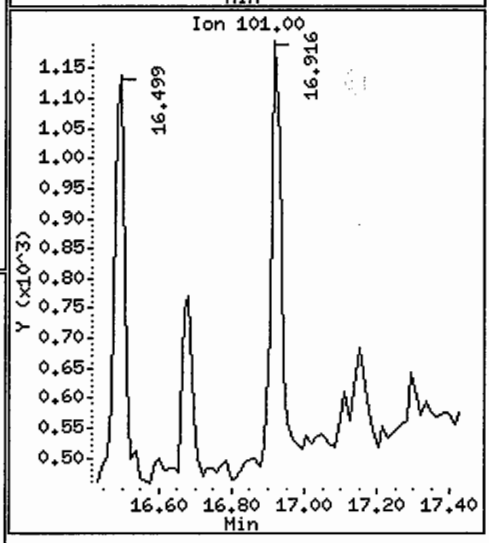
Column phase: Rtx-5MS Column diameter: 0.32

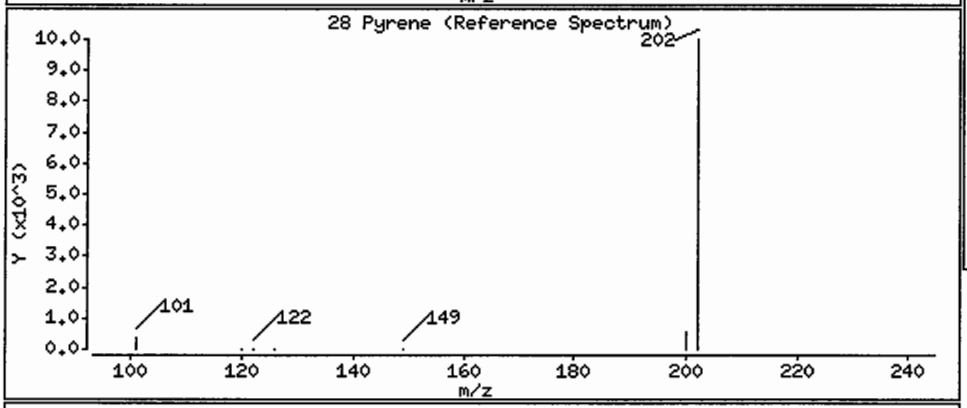
28 Pyrene Concentration: 1.0 ug/Kg

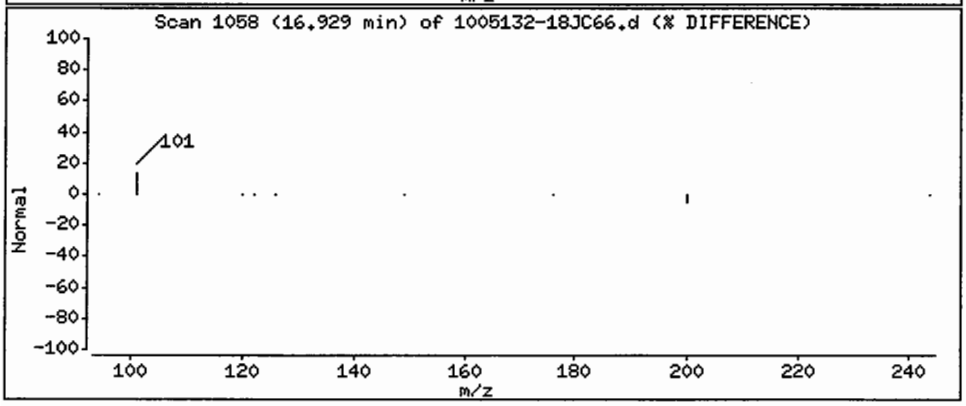












Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d

Date : 02-JUN-2010 03:55

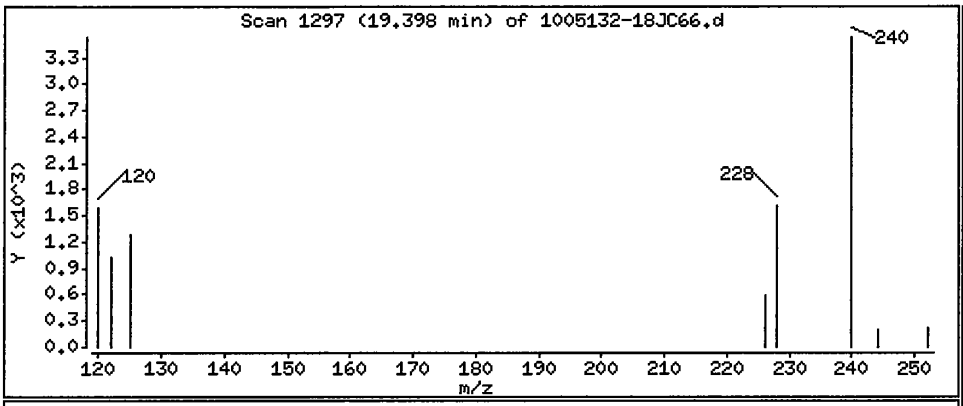
Client ID: SS71D-0-1 Instrument: 5972hp66.i

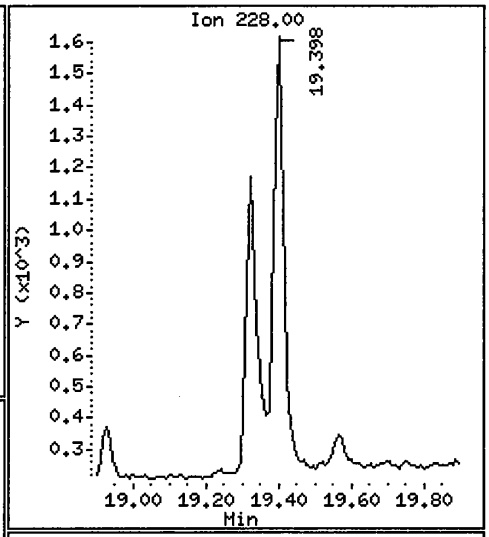
Sample Info: 1005132-18:2743

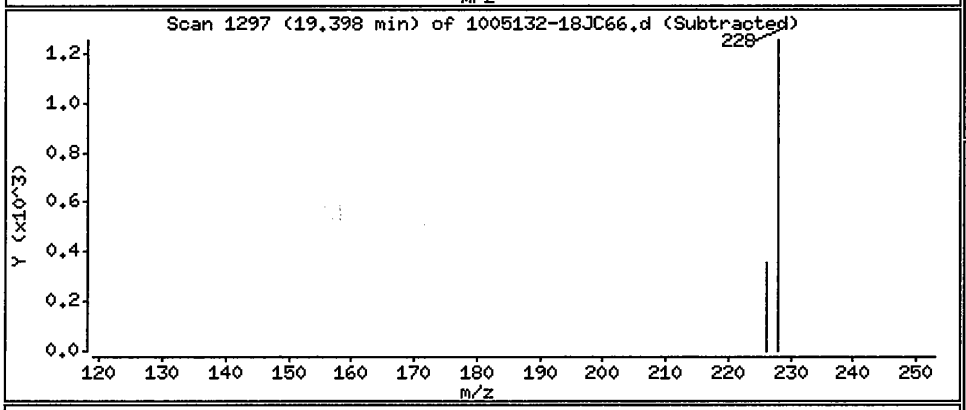
Volume Injected (uL): 2.0 Operator: 2743

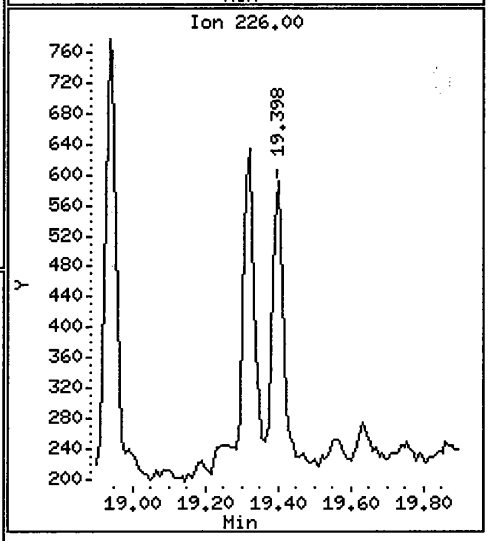
Column phase: Rtx-5MS Column diameter: 0.32

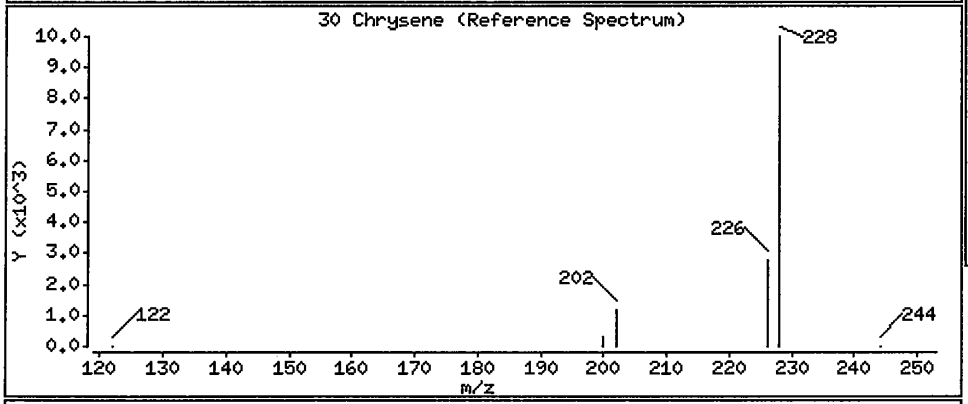
30 Chrysene Concentration: 0.75 ug/Kg

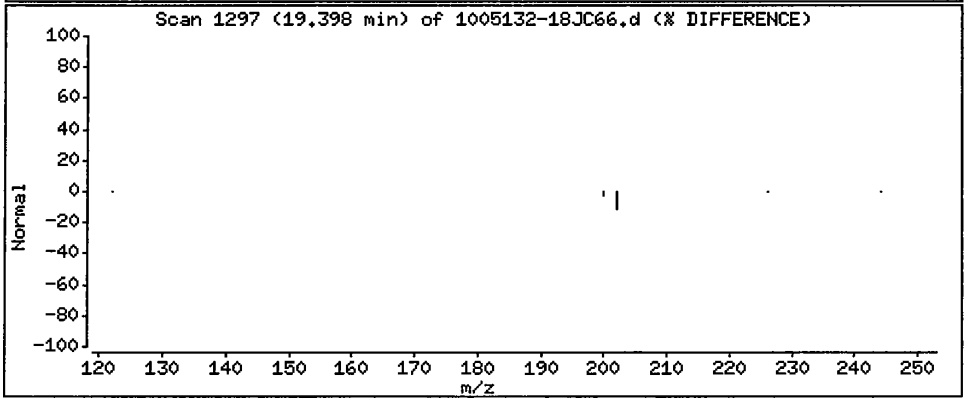












Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d

Date : 02-JUN-2010 03:55

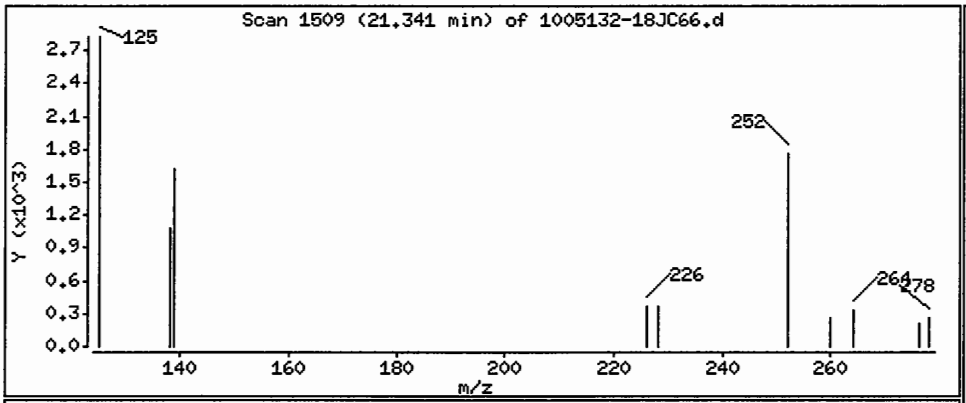
Client ID: SS71D-0-1 Instrument: 5972hp66.i

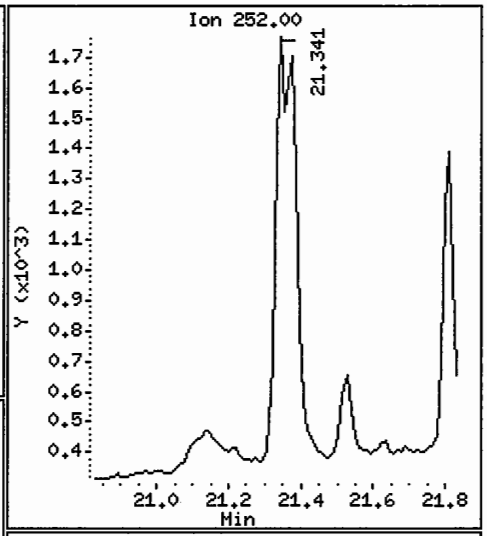
Sample Info: 1005132-18:2743

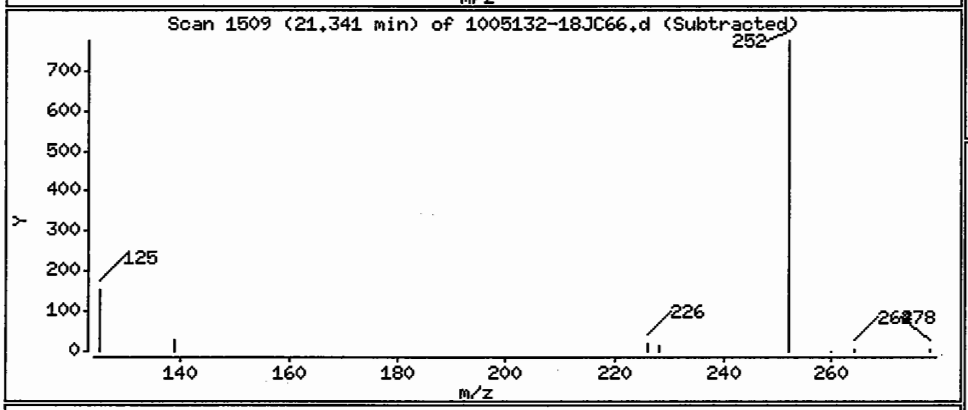
Volume Injected (uL): 2.0 Operator: 2743

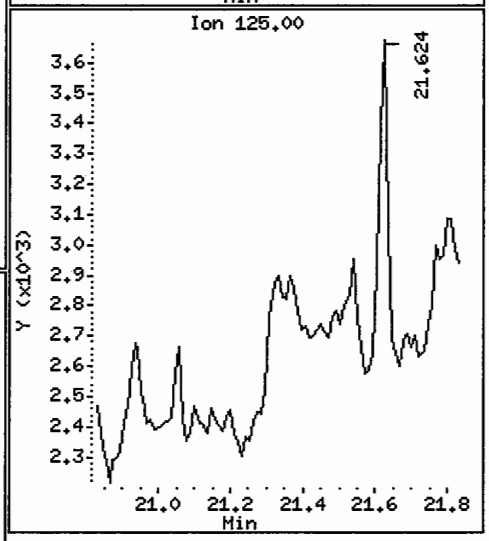
Column phase: Rtx-5MS Column diameter: 0.32

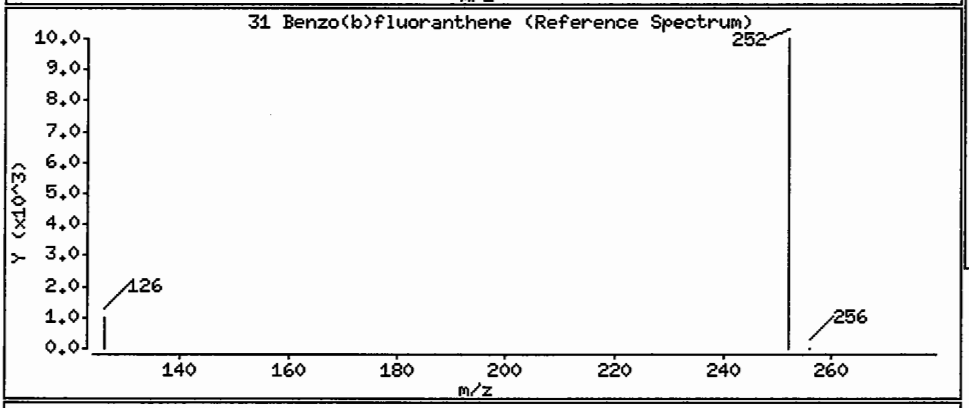
31 Benzo(b)fluoranthene Concentration: 0.69 ug/Kg

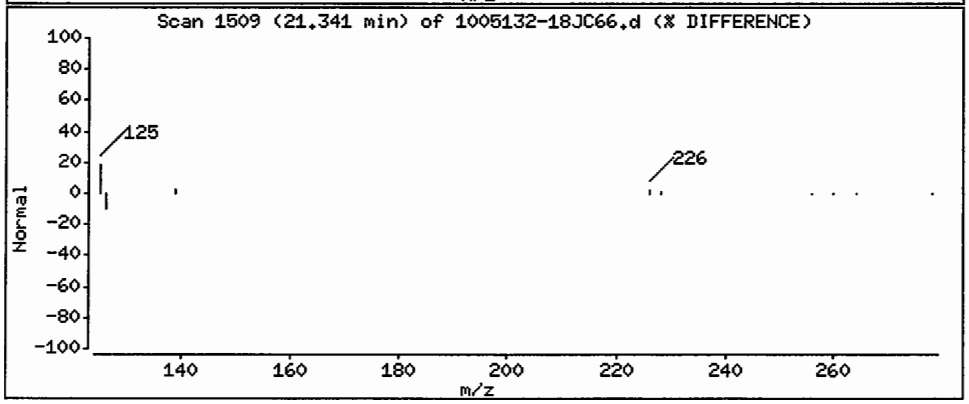












Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d

Date : 02-JUN-2010 03:55

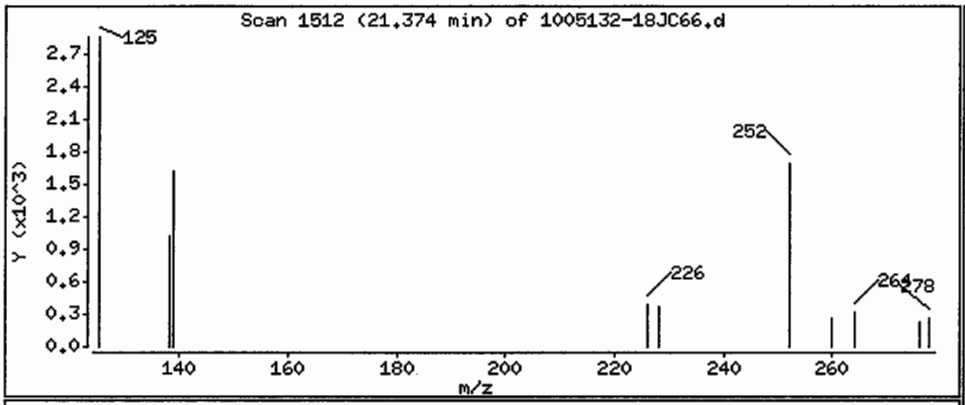
Client ID: SS71D-0-1 Instrument: 5972hp66.i

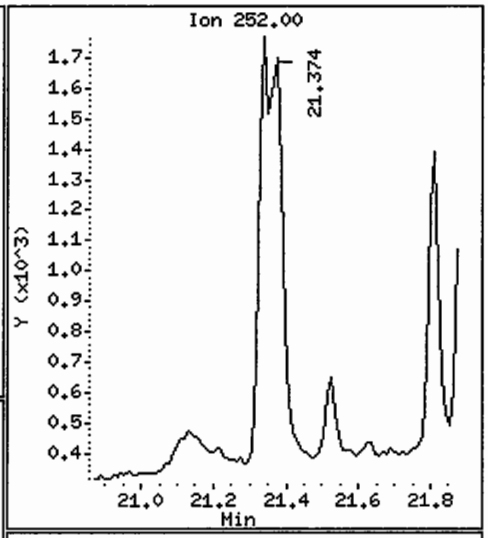
Sample Info: 1005132-18;2743

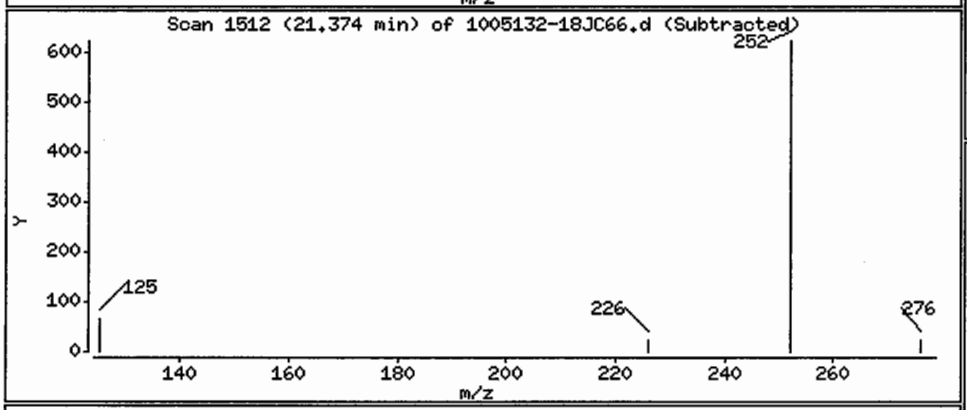
Volume Injected (uL): 2.0 Operator: 2743

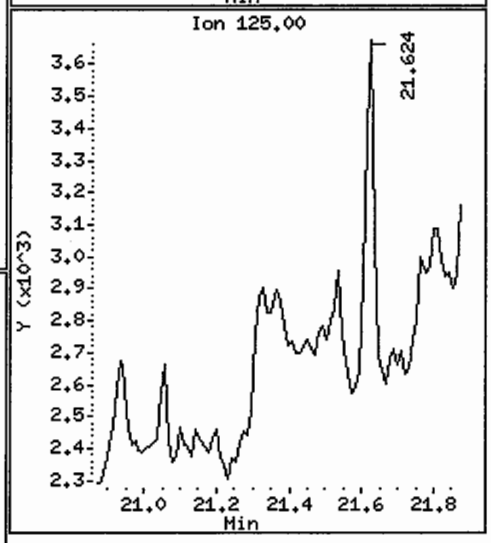
Column phase: Rtx-5MS Column diameter: 0.32

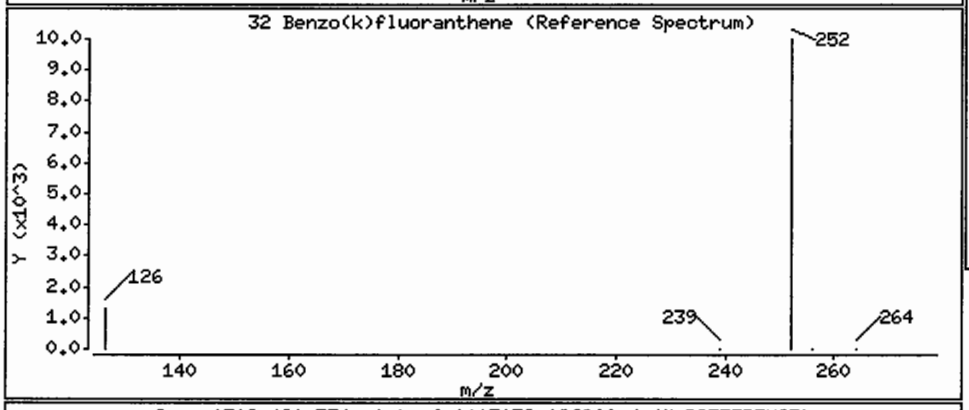
32 Benzo(k)fluoranthene Concentration: 0.91 ug/Kg

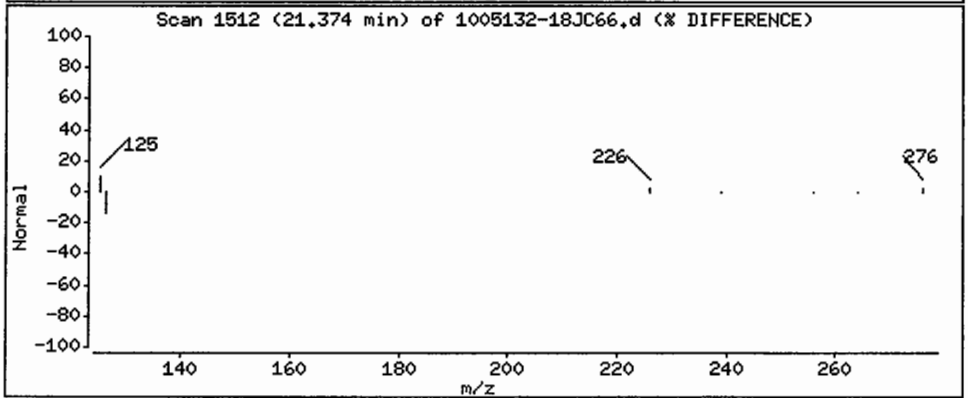












Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d

Date : 02-JUN-2010 03:55

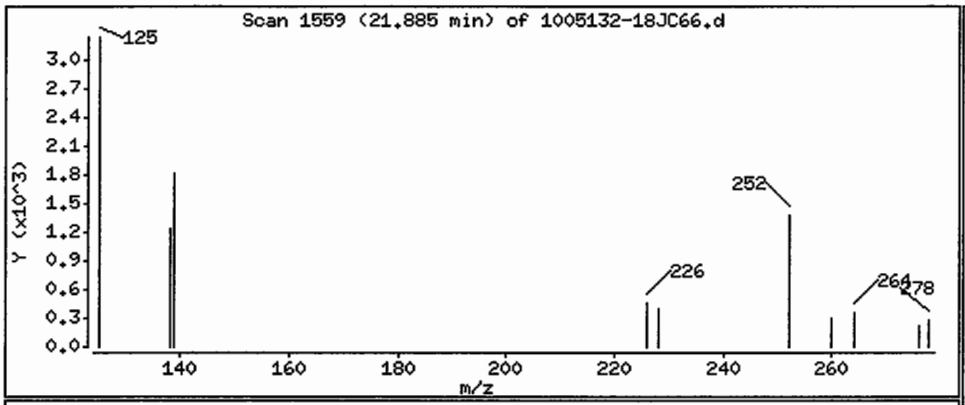
Client ID: SS71D-0-1 Instrument: 5972hp66.i

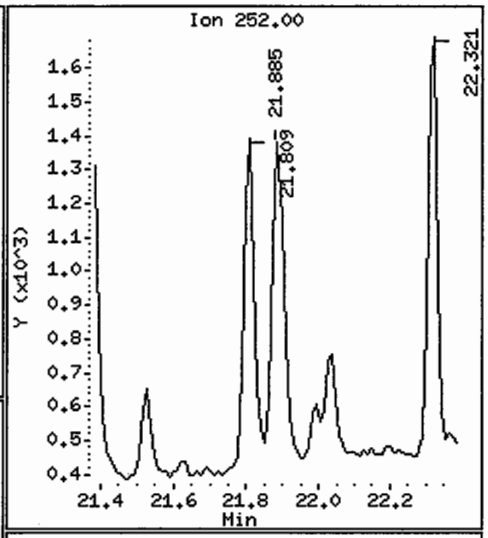
Sample Info: 1005132-18:2743

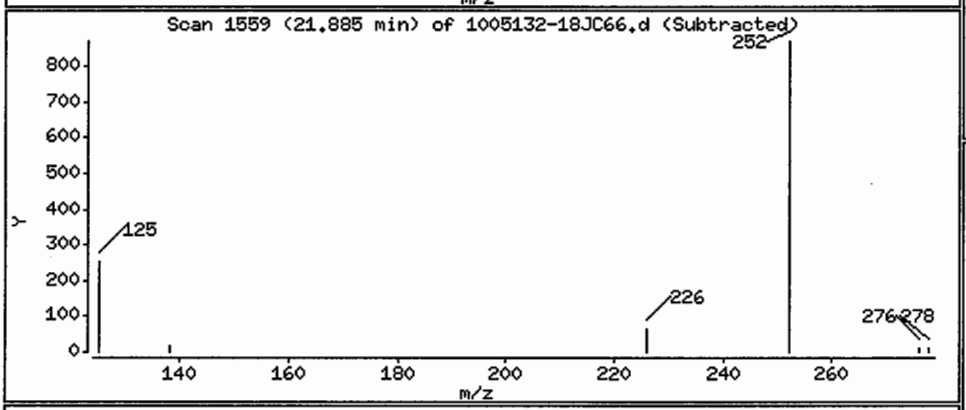
Volume Injected (uL): 2.0 Operator: 2743

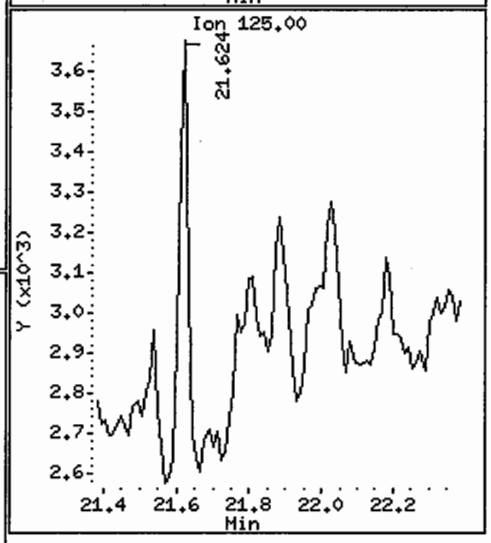
Column phase: Rtx-5MS Column diameter: 0.32

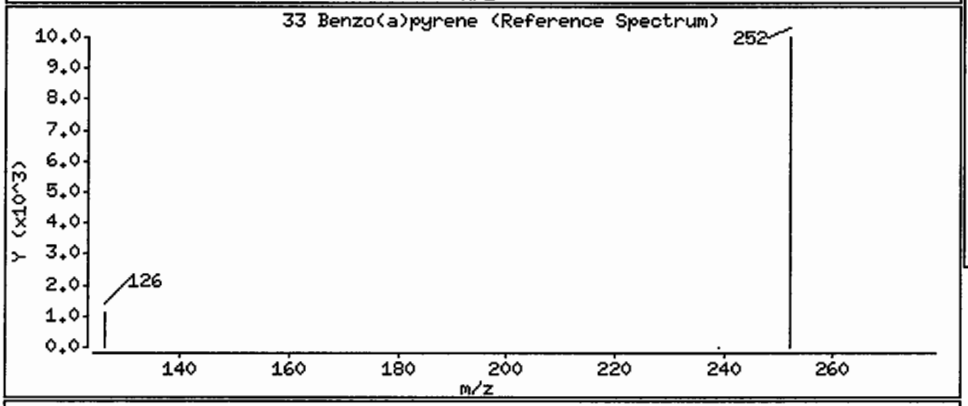
33 Benzo(a)pyrene Concentration: 0.59 ug/Kg

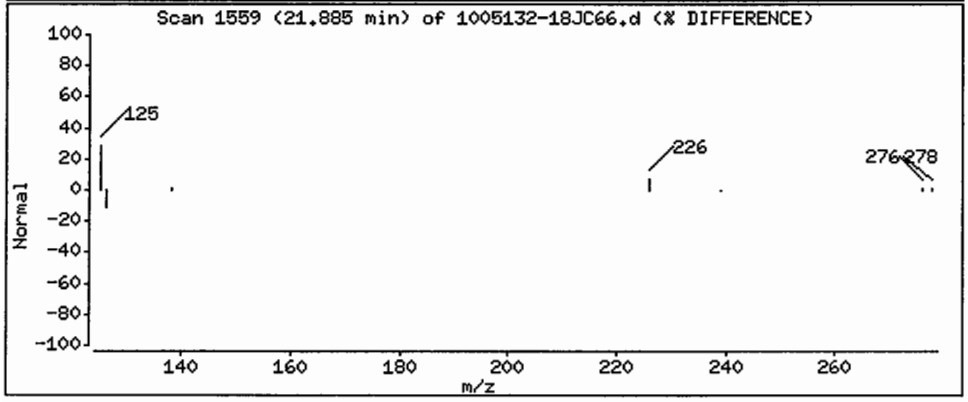












Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d

Date : 02-JUN-2010 03:55

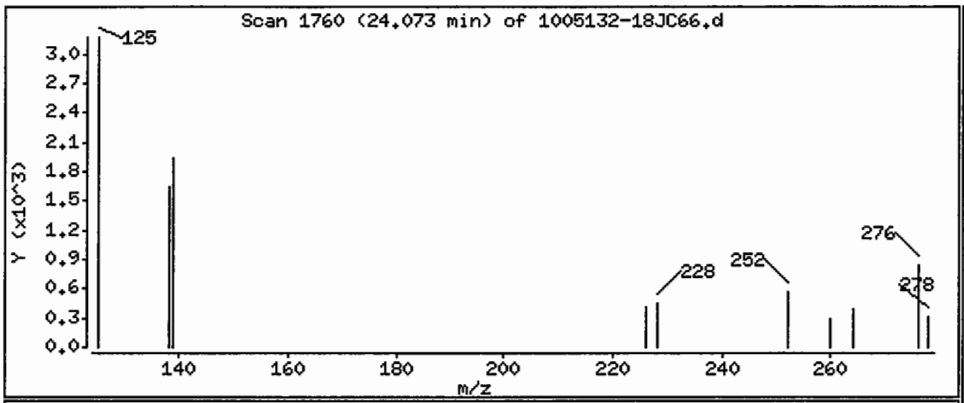
Client ID: SS71D-0-1 Instrument: 5972hp66.i

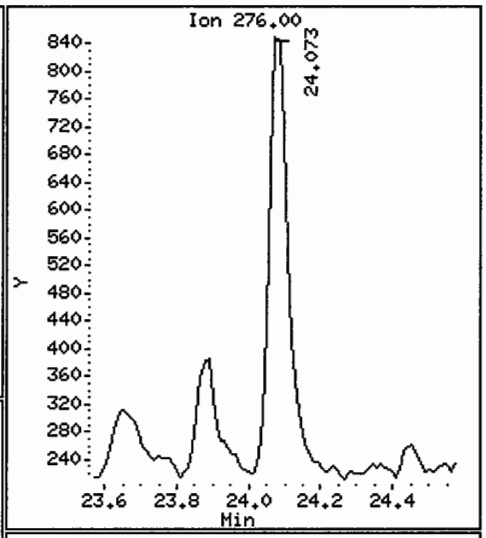
Sample Info: 1005132-18:2743

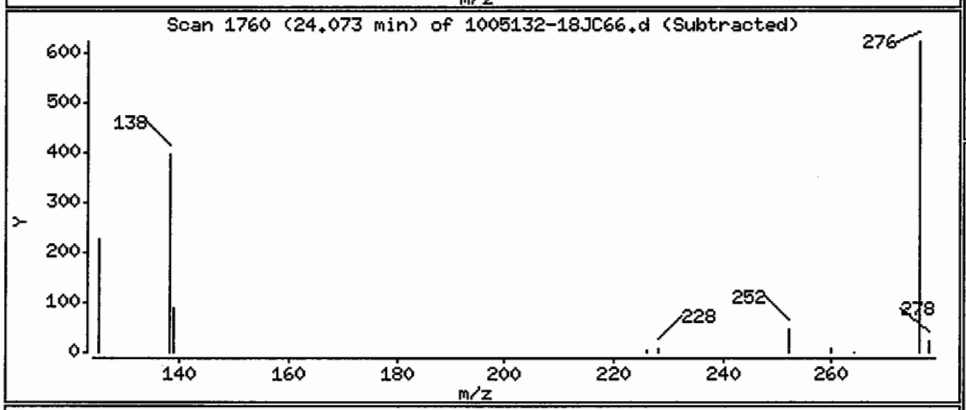
Volume Injected (uL): 2.0 Operator: 2743

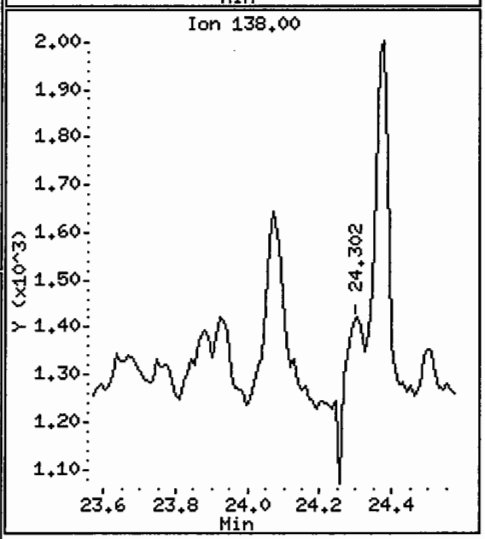
Column phase: Rtx-5MS Column diameter: 0.32

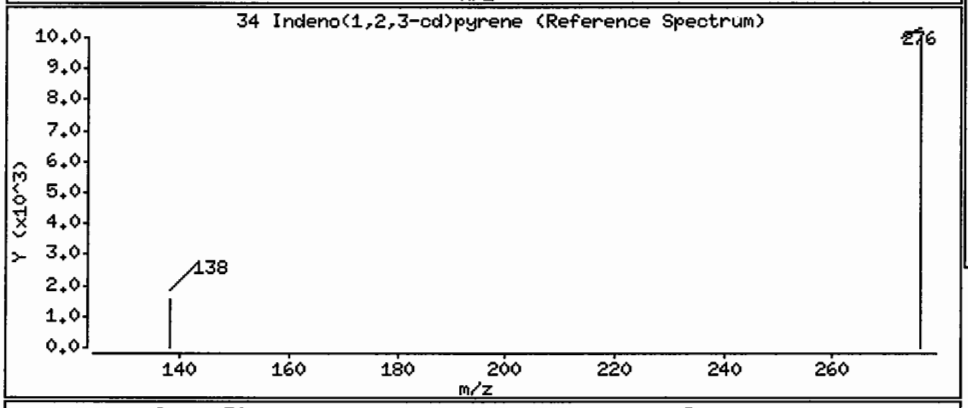
34 Indeno(1,2,3-cd)pyrene Concentration: 0.78 ug/Kg

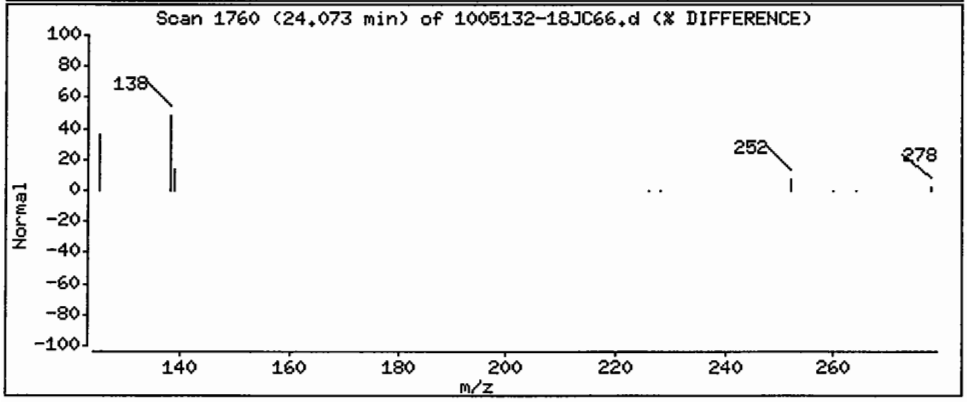












Data File: /chem/5972hp66.i/DS100601C66.b/1005132-18JC66.d

Date : 02-JUN-2010 03:55

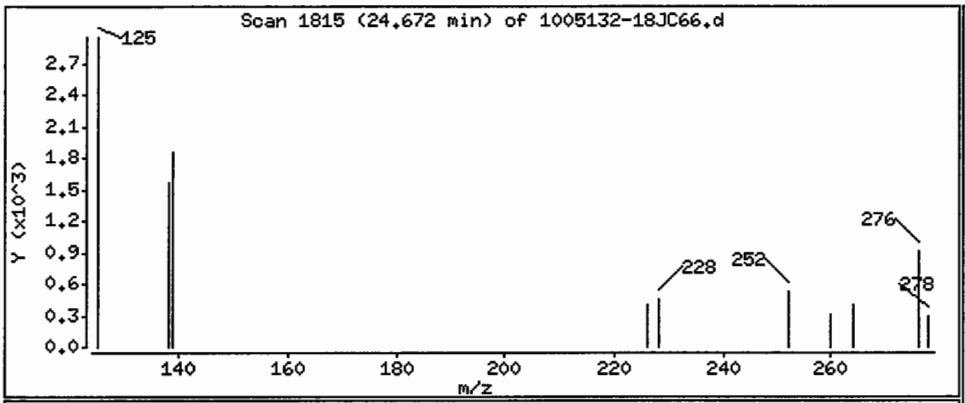
Client ID: SS71D-0-1 Instrument: 5972hp66.i

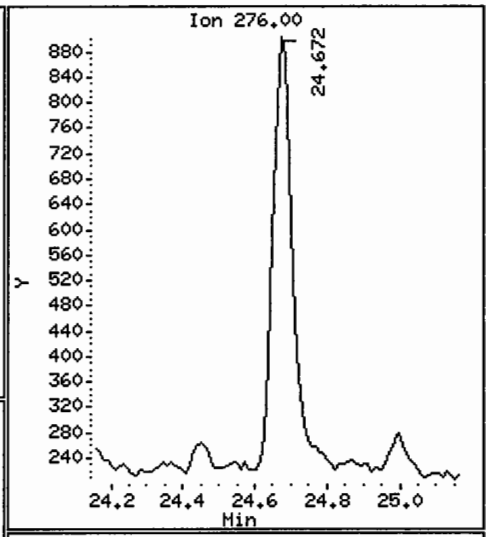
Sample Info: 1005132-18:2743

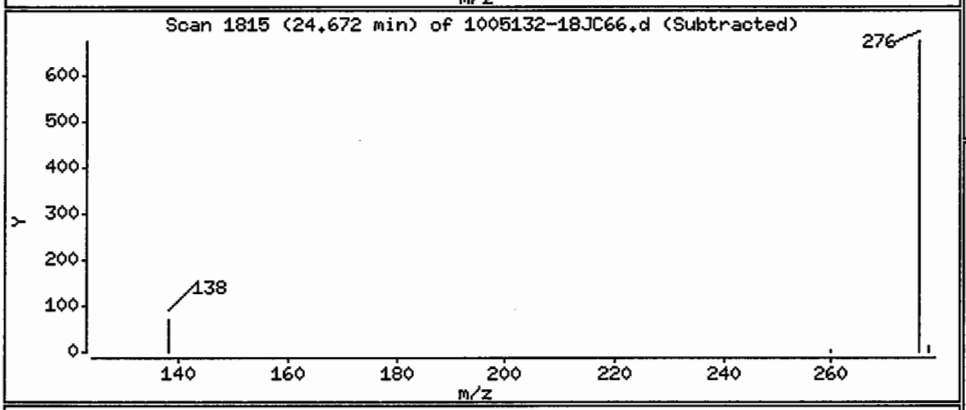
Volume Injected (uL): 2.0 Operator: 2743

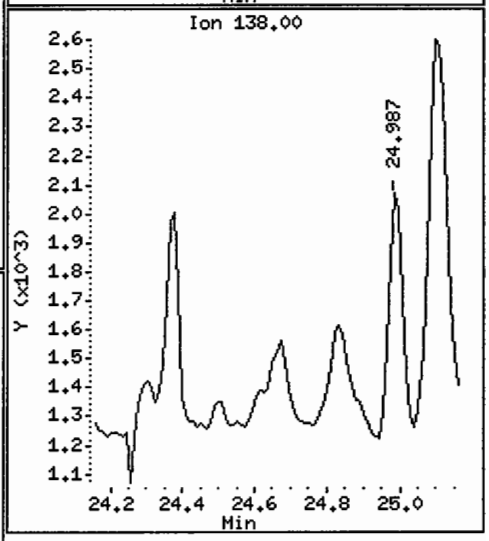
Column phase: Rtx-5MS Column diameter: 0.32

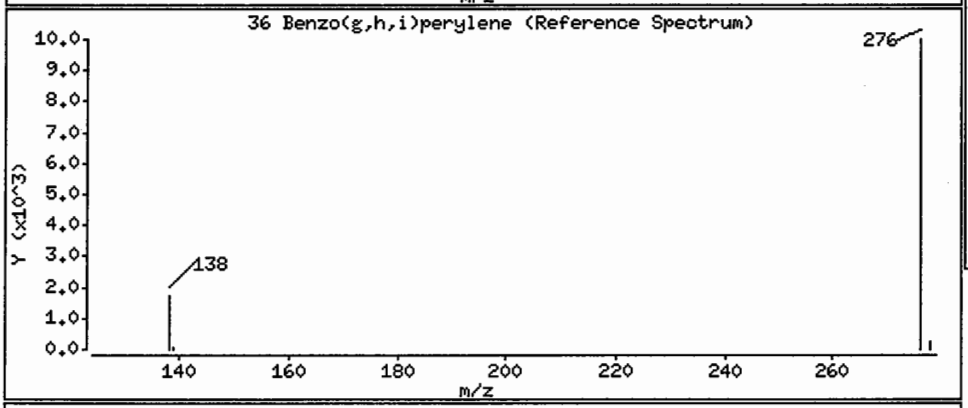
36 Benzo(g,h,i)perylene Concentration: 0.76 ug/Kg

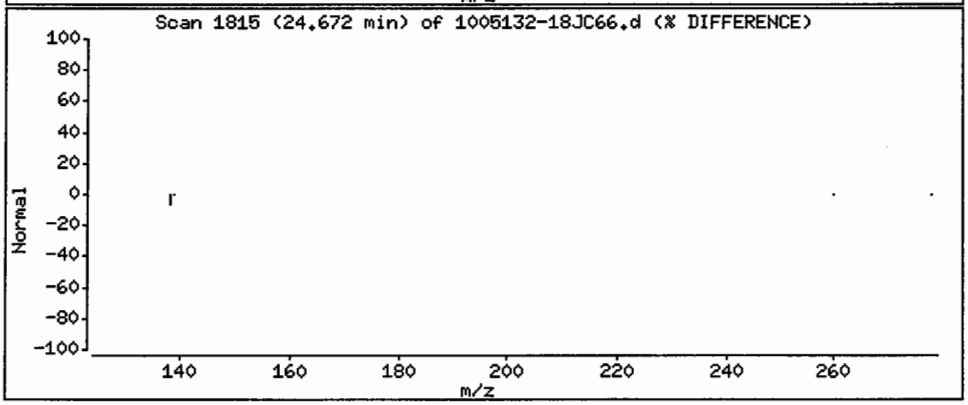












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SS74-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-10JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 3 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

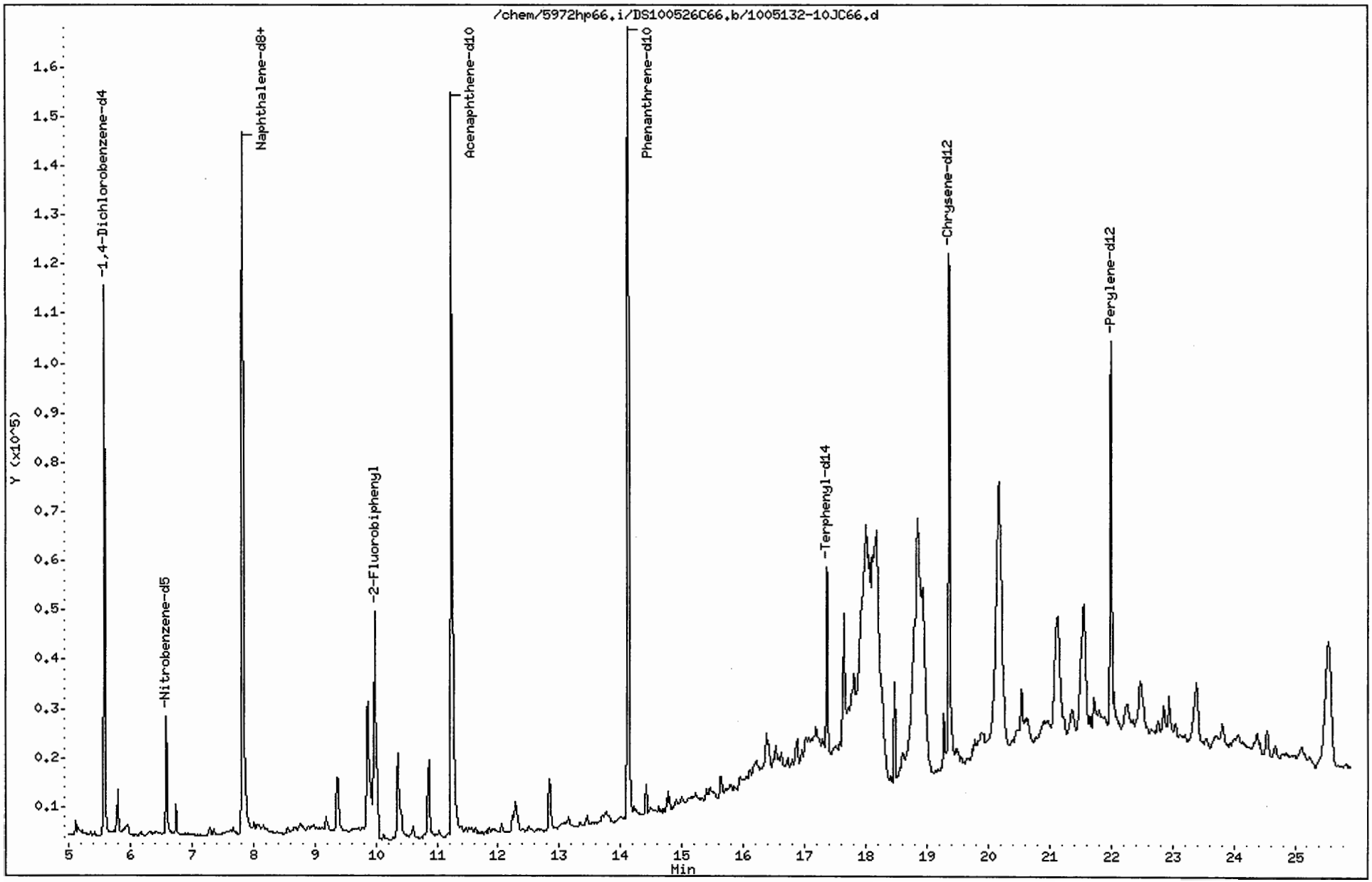
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.76	J
91-57-6	2-Methylnaphthalene	8.6	U
208-96-8	Acenaphthylene	8.6	U
83-32-9	Acenaphthene	8.6	U
86-73-7	Fluorene	8.6	U
85-01-8	Phenanthrene	8.6	U
120-12-7	Anthracene	8.6	U
206-44-0	Fluoranthene	8.6	U
129-00-0	Pyrene	8.6	U
56-55-3	Benzo(a)anthracene	8.6	U
218-01-9	Chrysene	8.6	U
205-99-2	Benzo(b)fluoranthene	8.6	U
207-08-9	Benzo(k)fluoranthene	0.47	J
50-32-8	Benzo(a)pyrene	8.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	J
53-70-3	Dibenzo(a,h)anthracene	8.6	U
191-24-2	Benzo(g,h,i)perylene	8.6	U

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d
Date : 27-MAY-2010 08:57
Client ID: SS74-0-1
Sample Info: 1005132-10:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d
Report Date: 03-Jun-2010 14:40

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d
Lab Smp Id: 1005132-10 Client Smp ID: SS74-0-1
Inj Date : 27-MAY-2010 08:57
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-10:2743
Misc Info : SS74-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526C66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 13:52 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	3.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.583	5.570	(1.000)	61407	2.00000	(a)
*	2 Naphthalene-d8	136	7.825	7.812	(1.000)	226235	2.00000	(a)
*	3 Acenaphthene-d10	164	11.243	11.243	(1.000)	117487	2.00000	(a)
*	4 Phenanthrene-d10	188	14.127	14.114	(1.000)	234269	2.00000	(a)
*	5 Chrysene-d12	240	19.371	19.353	(1.000)	138998	2.00000	(a)
*	6 Perylene-d12	264	22.005	21.983	(1.000)	106917	2.00000	(a)
$	9 Nitrobenzene-d5	82	6.587	6.574	(0.842)	26459	0.52559	9.0
$	10 2-Fluorobiphenyl	172	9.976	9.976	(0.887)	61921	0.50507	8.7
$	12 Terphenyl-d14	244	17.374	17.361	(0.897)	51744	1.02455	18
	13 Naphthalene	128	7.851	7.851	(1.003)	6178	0.04415	0.76(a)
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d
Report Date: 03-Jun-2010 14:40

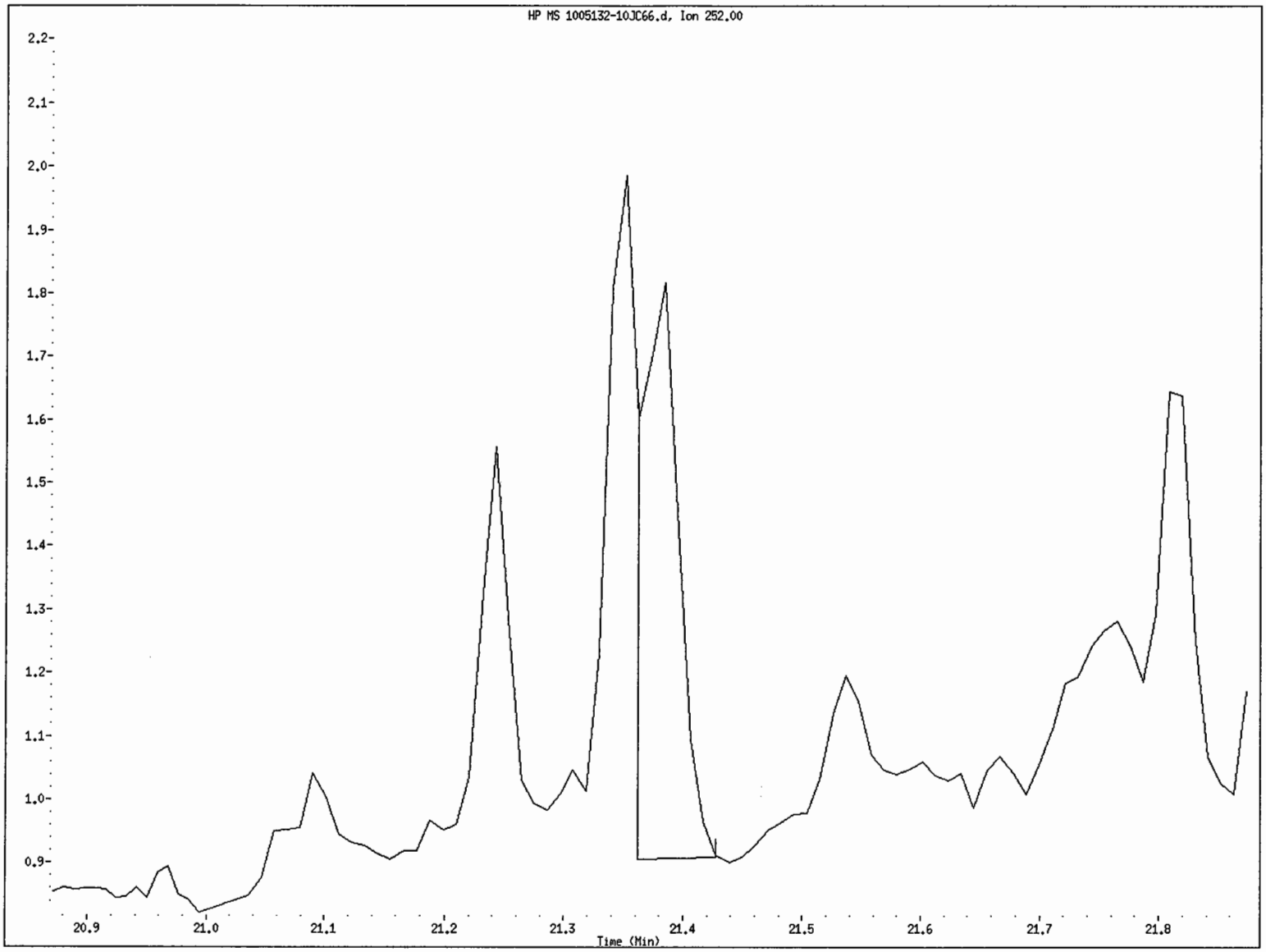
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	21.384	21.373	(0.972)	2085	0.02748	0.47(aM)
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	24.083	24.051	(1.094)	1289	0.02299	0.40(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

1
2
6/3/10
MT

QC Flag Legend

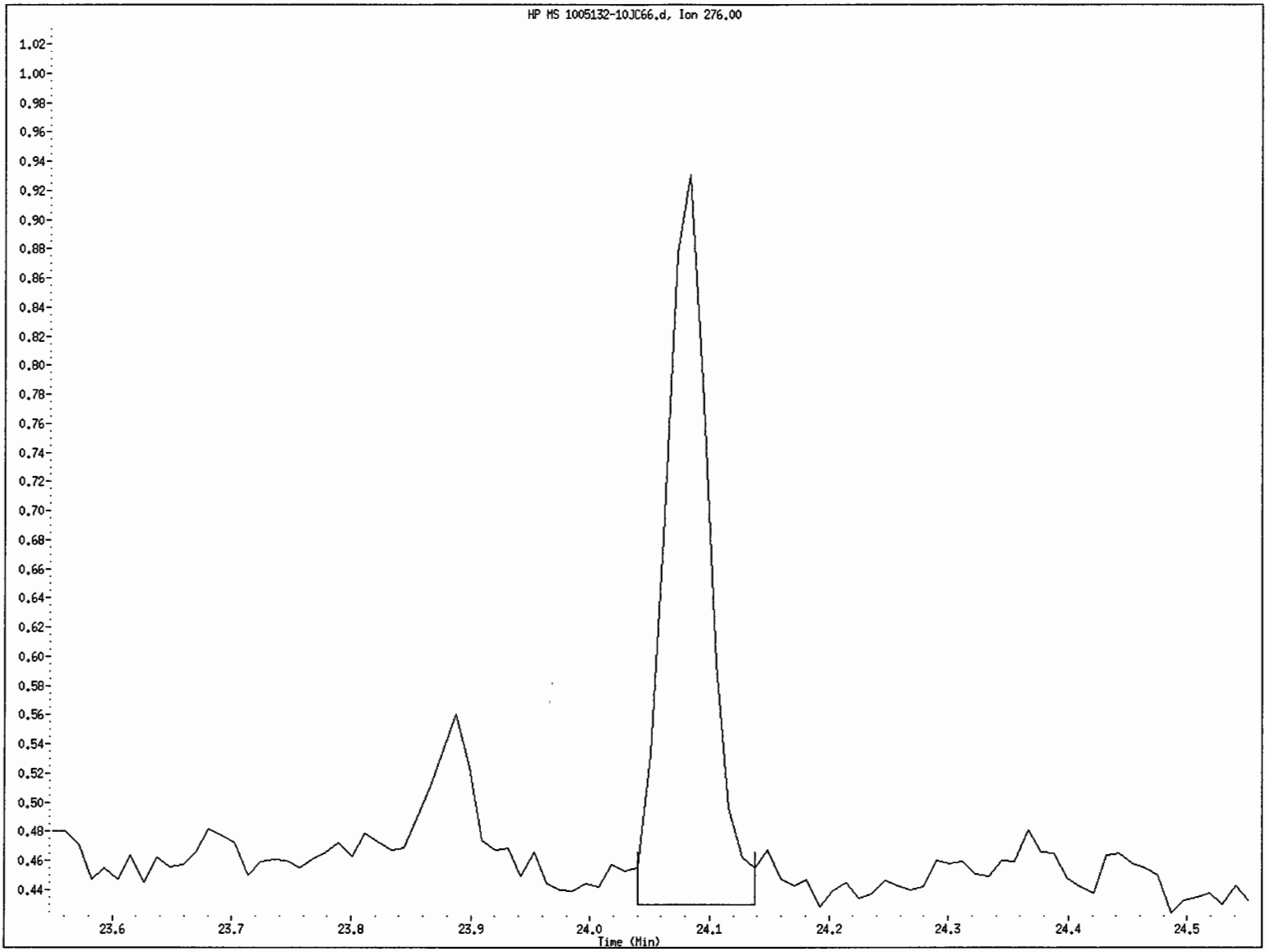
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 2085 Manually integrated



File name: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d
Client ID: SS74-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 08:57
Retention Time: 21.38
Operator ID: 2743

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 1289 Manually integrated



File name: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d
Client ID: SS74-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 08:57
Retention Time: 24.08
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d

Date : 27-MAY-2010 08:57

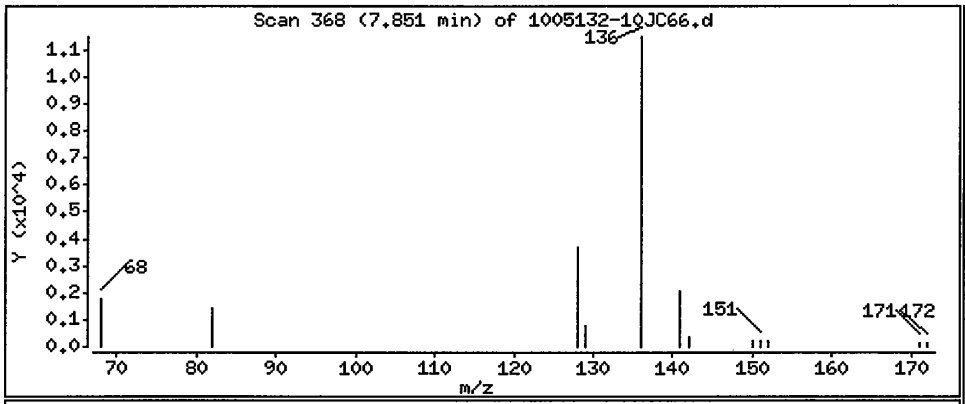
Client ID: SS74-0-1 Instrument: 5972hp66.i

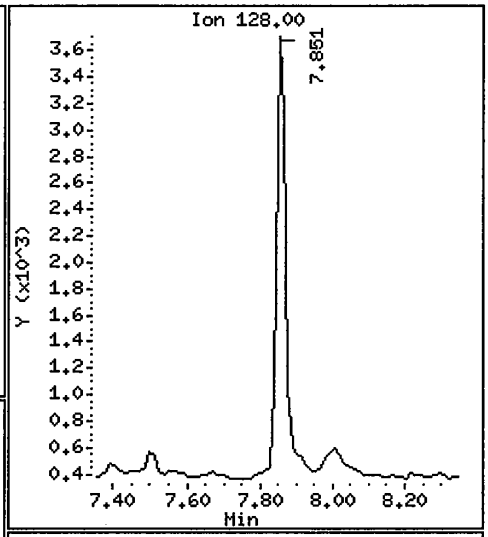
Sample Info: 1005132-10:2743

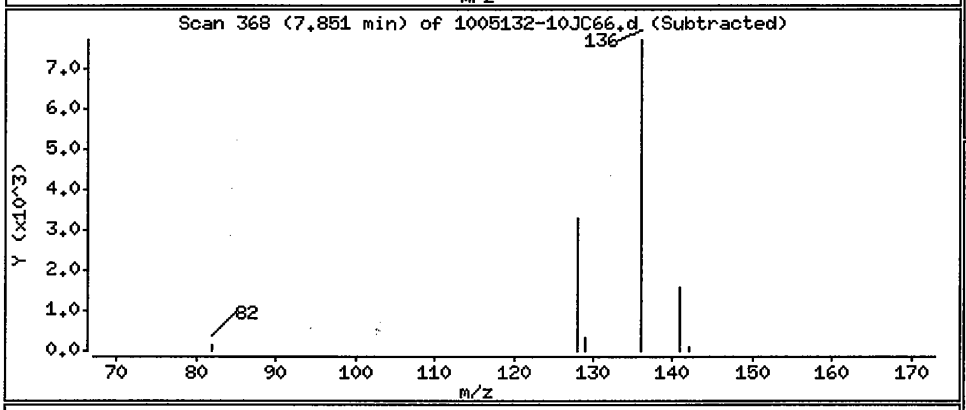
Volume Injected (uL): 2.0 Operator: 2743

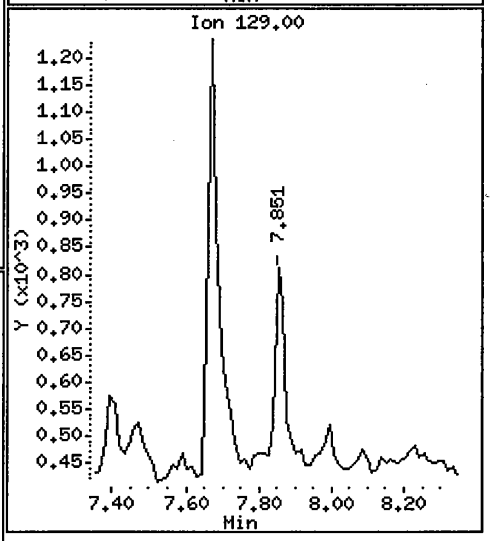
Column phase: Rtx-5MS Column diameter: 0.32

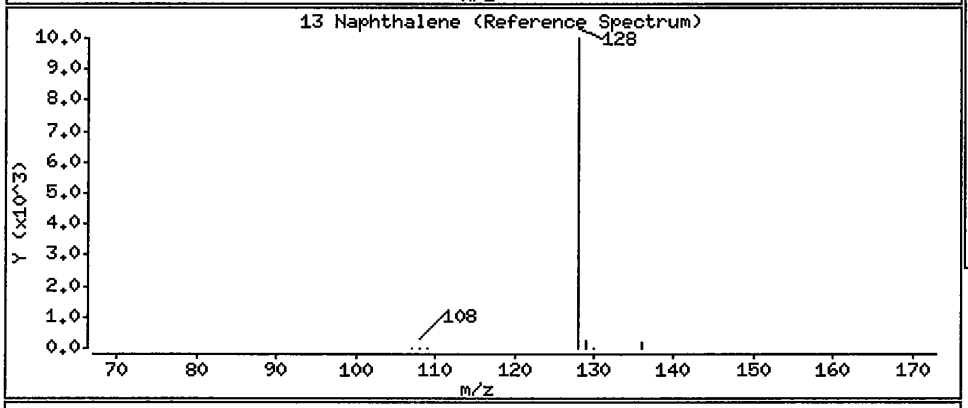
13 Naphthalene Concentration: 0.76 ug/Kg

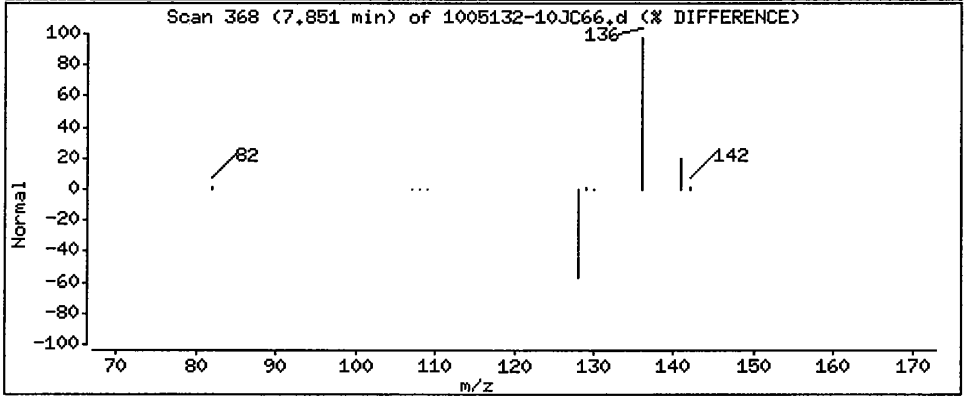












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d

Date : 27-MAY-2010 08:57

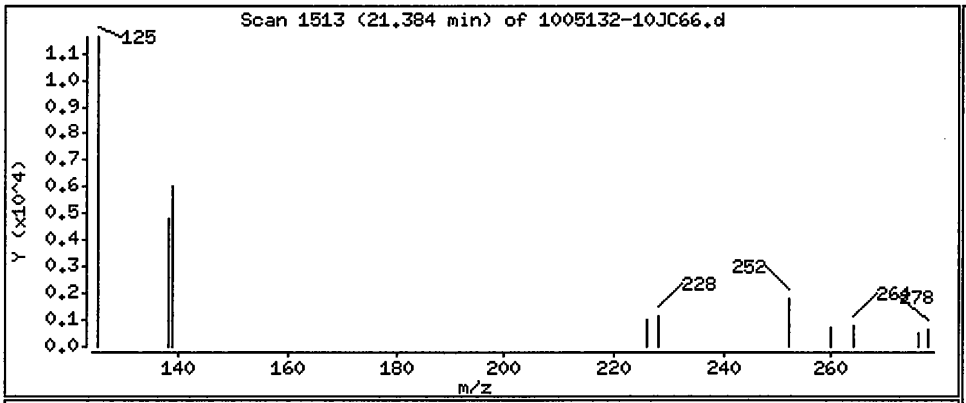
Client ID: SS74-0-1 Instrument: 5972hp66.i

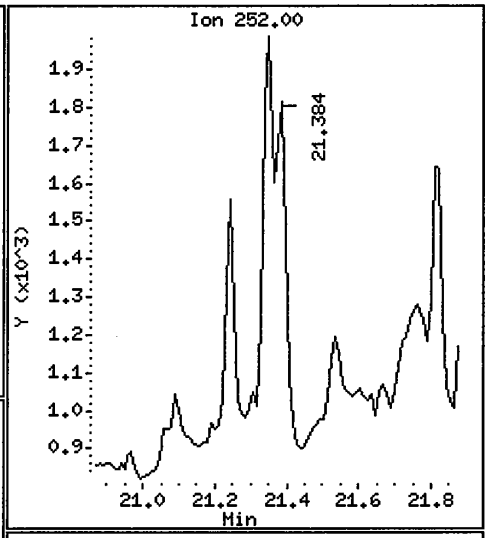
Sample Info: 1005132-10:2743

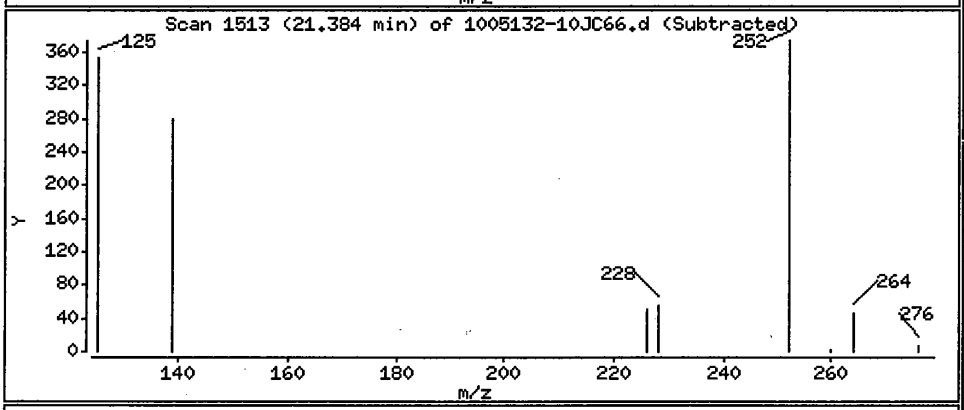
Volume Injected (uL): 2.0 Operator: 2743

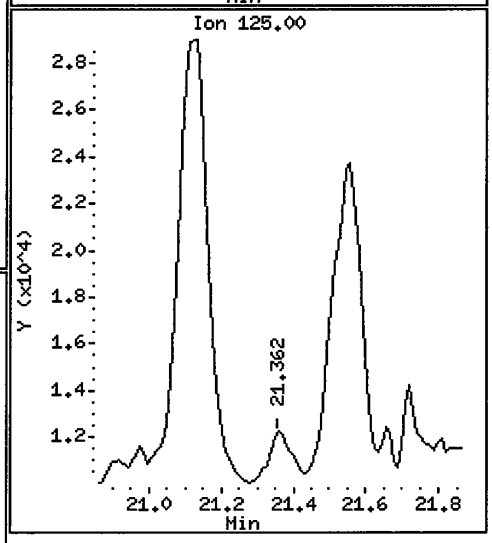
Column phase: Rtx-5MS Column diameter: 0.32

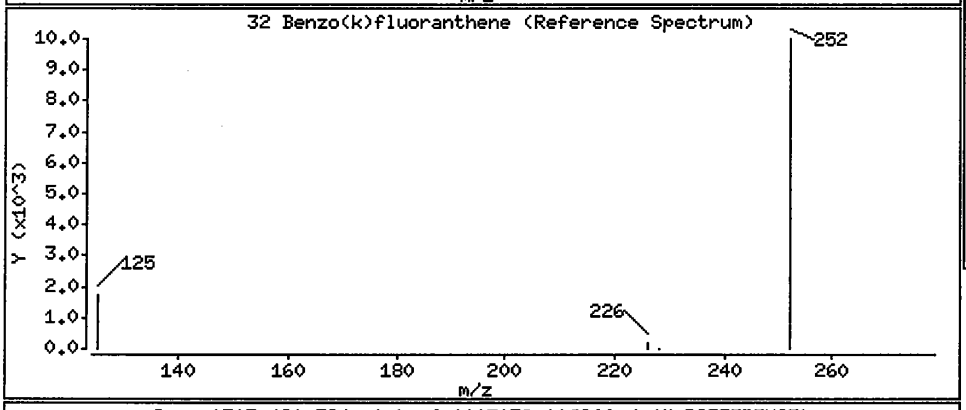
32 Benzo(k)fluoranthene Concentration: 0.47 ug/Kg

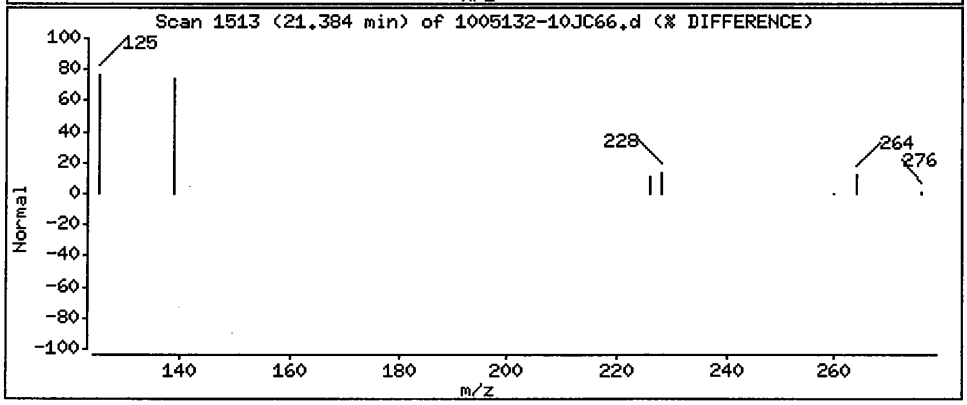












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d

Date : 27-MAY-2010 08:57

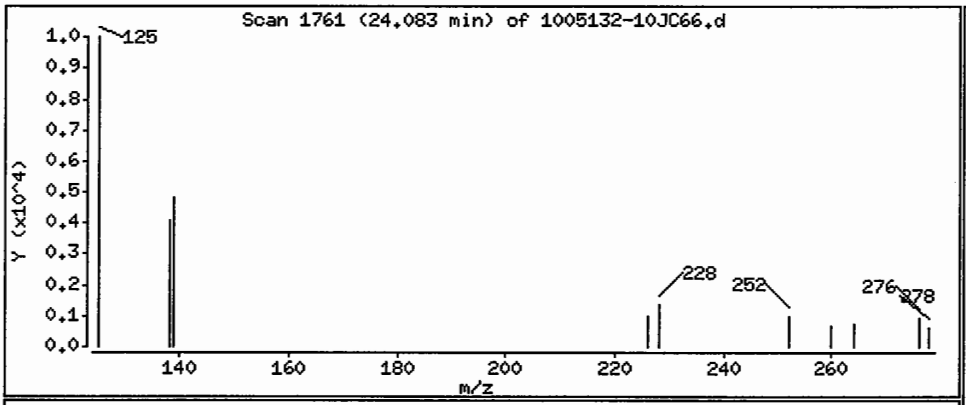
Client ID: SS74-0-1 Instrument: 5972hp66.i

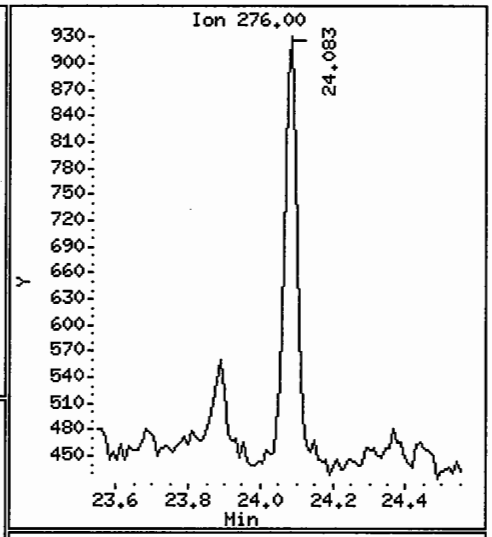
Sample Info: 1005132-10:2743

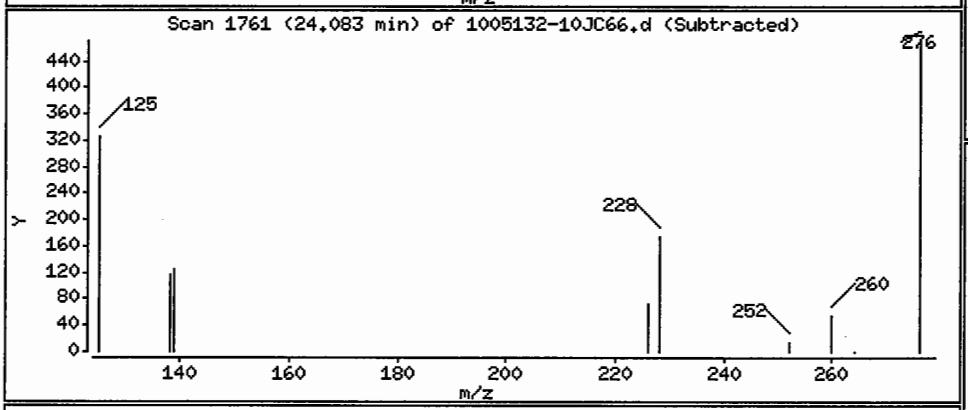
Volume Injected (uL): 2.0 Operator: 2743

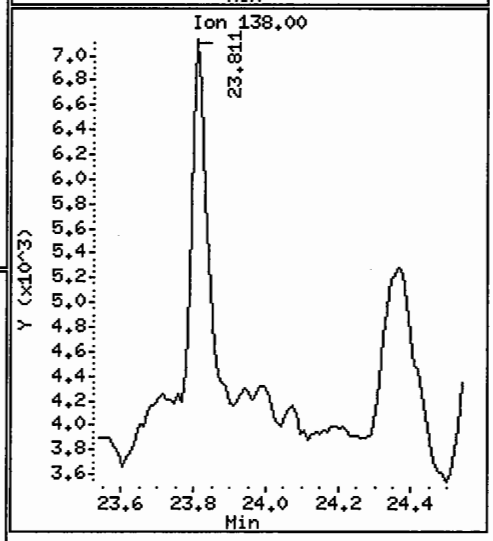
Column phase: Rtx-5MS Column diameter: 0.32

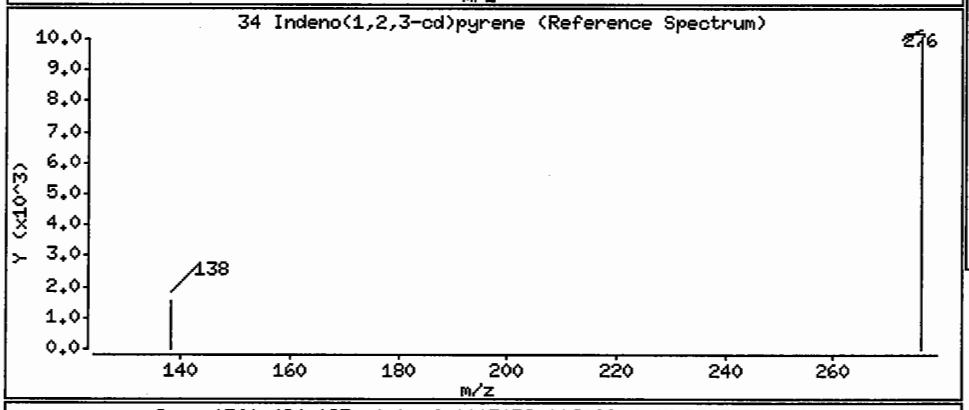
34 Indeno(1,2,3-cd)pyrene Concentration: 0.40 ug/Kg

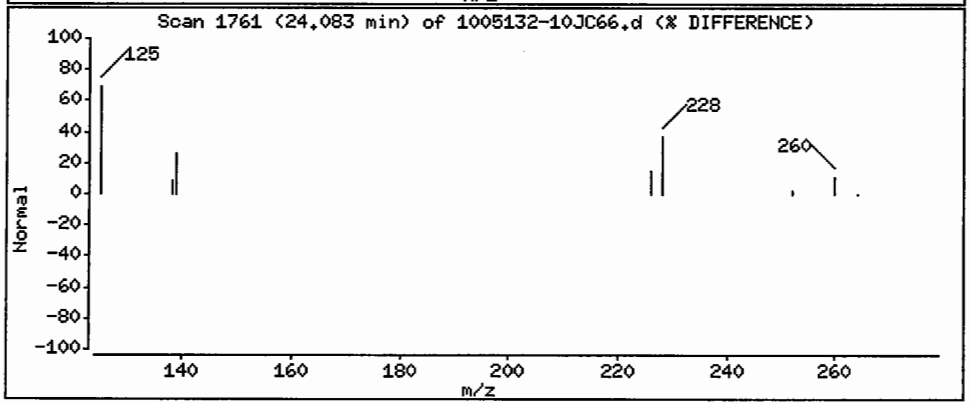






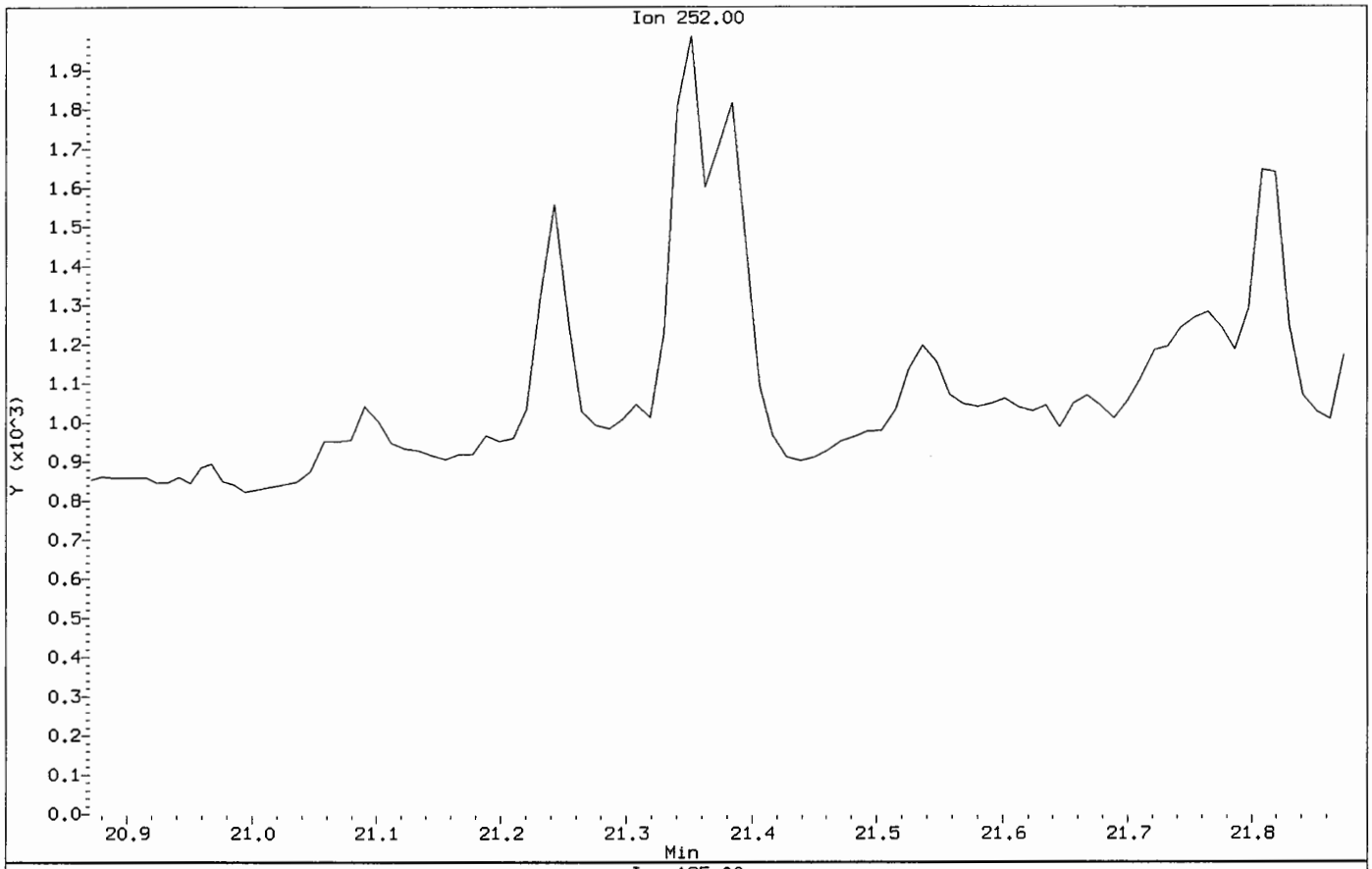


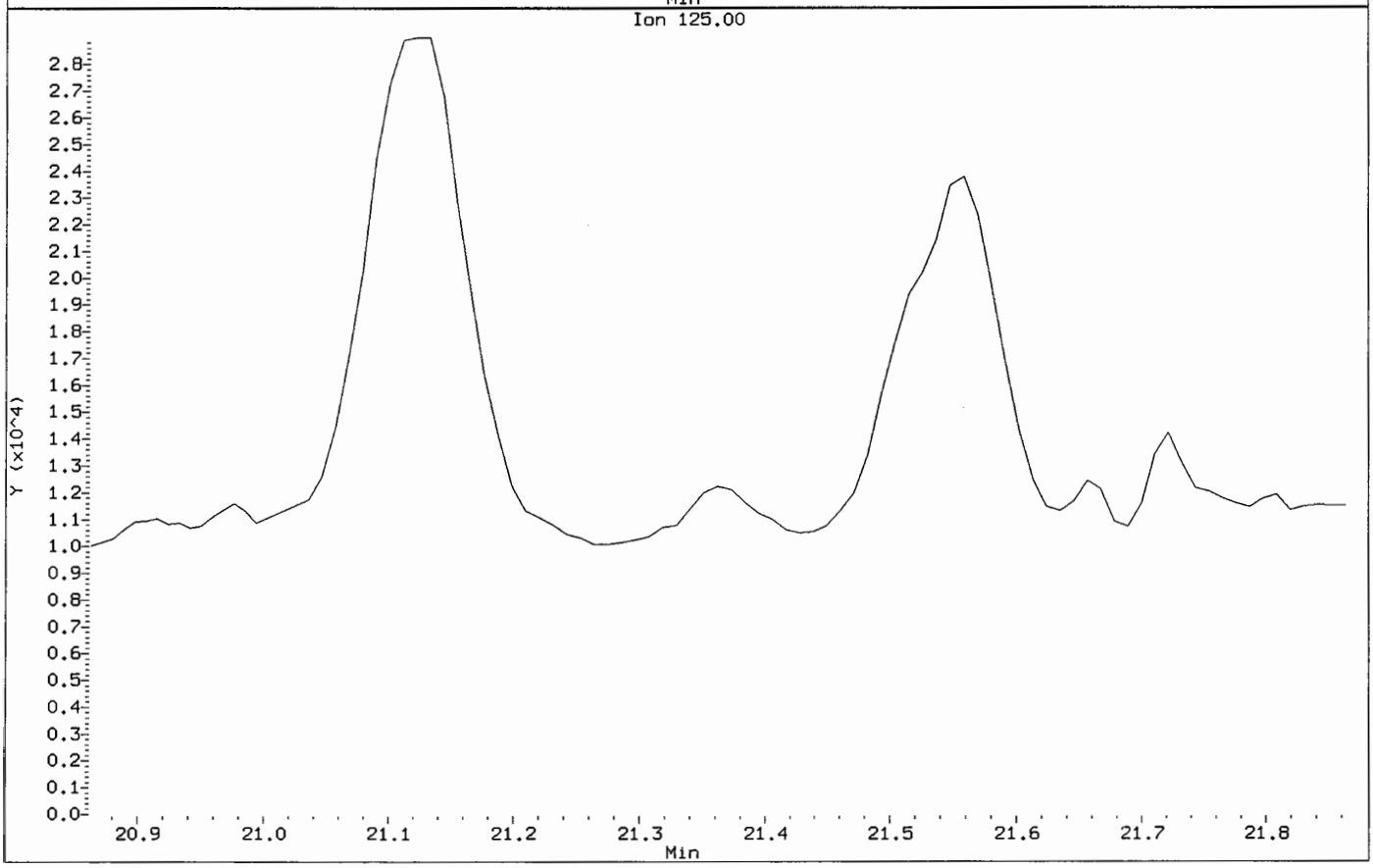




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d
Injection Date: 27-MAY-2010 08:57
Instrument: 5972hp66.i
Client Sample ID: SS74-0-1

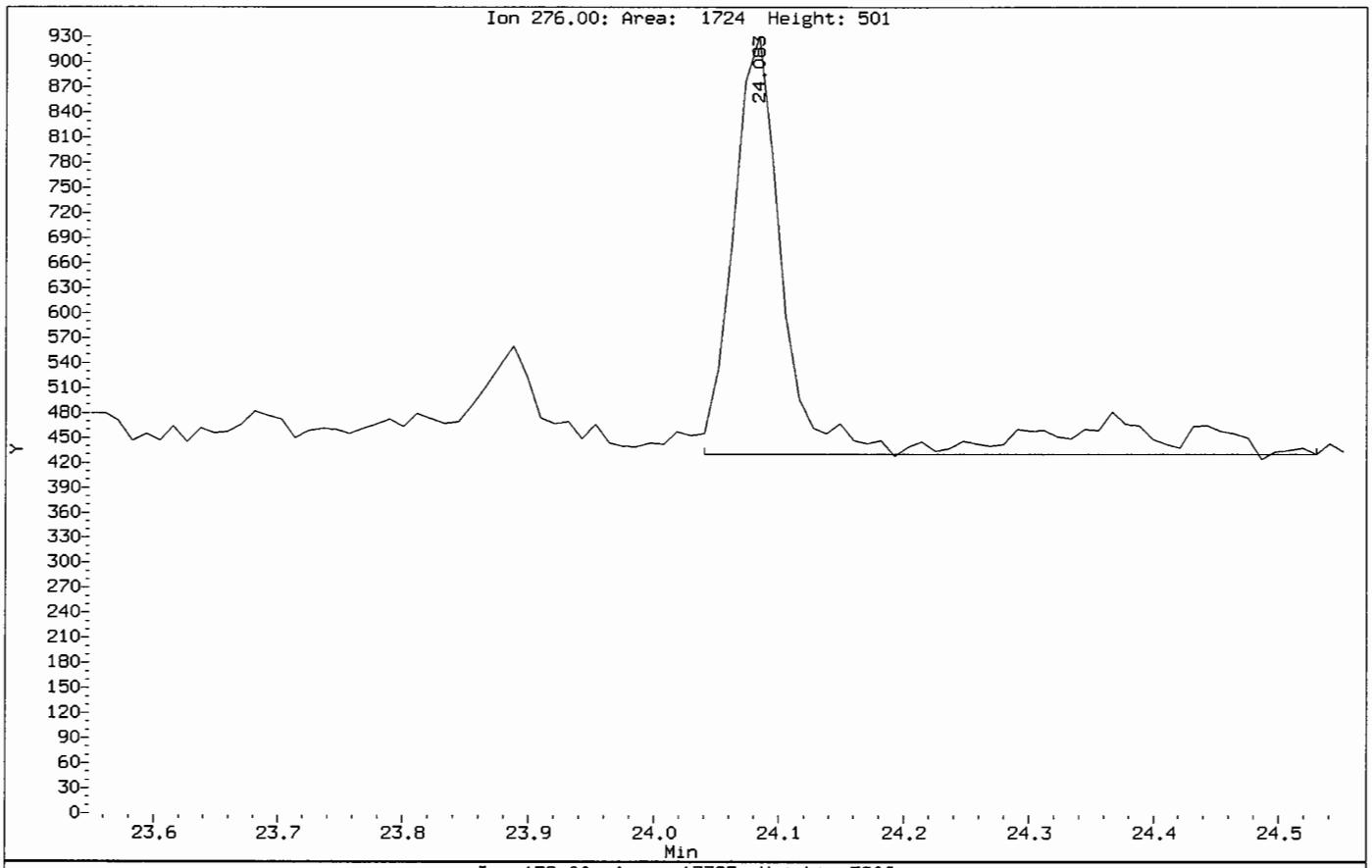
Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

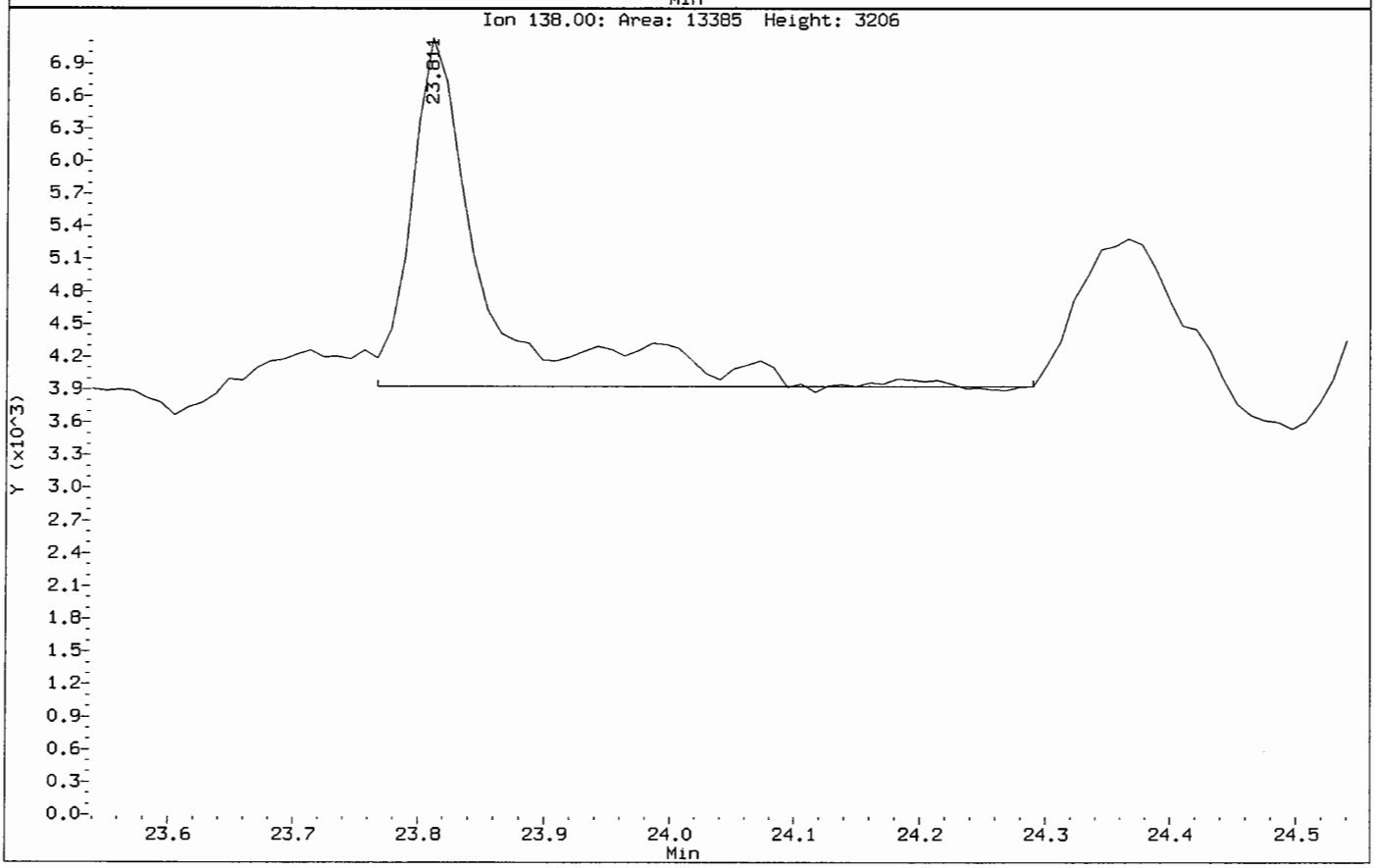




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-10JC66.d
Injection Date: 27-MAY-2010 08:57
Instrument: 5972hp66.i
Client Sample ID: SS74-0-1

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS77-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-03C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 23 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

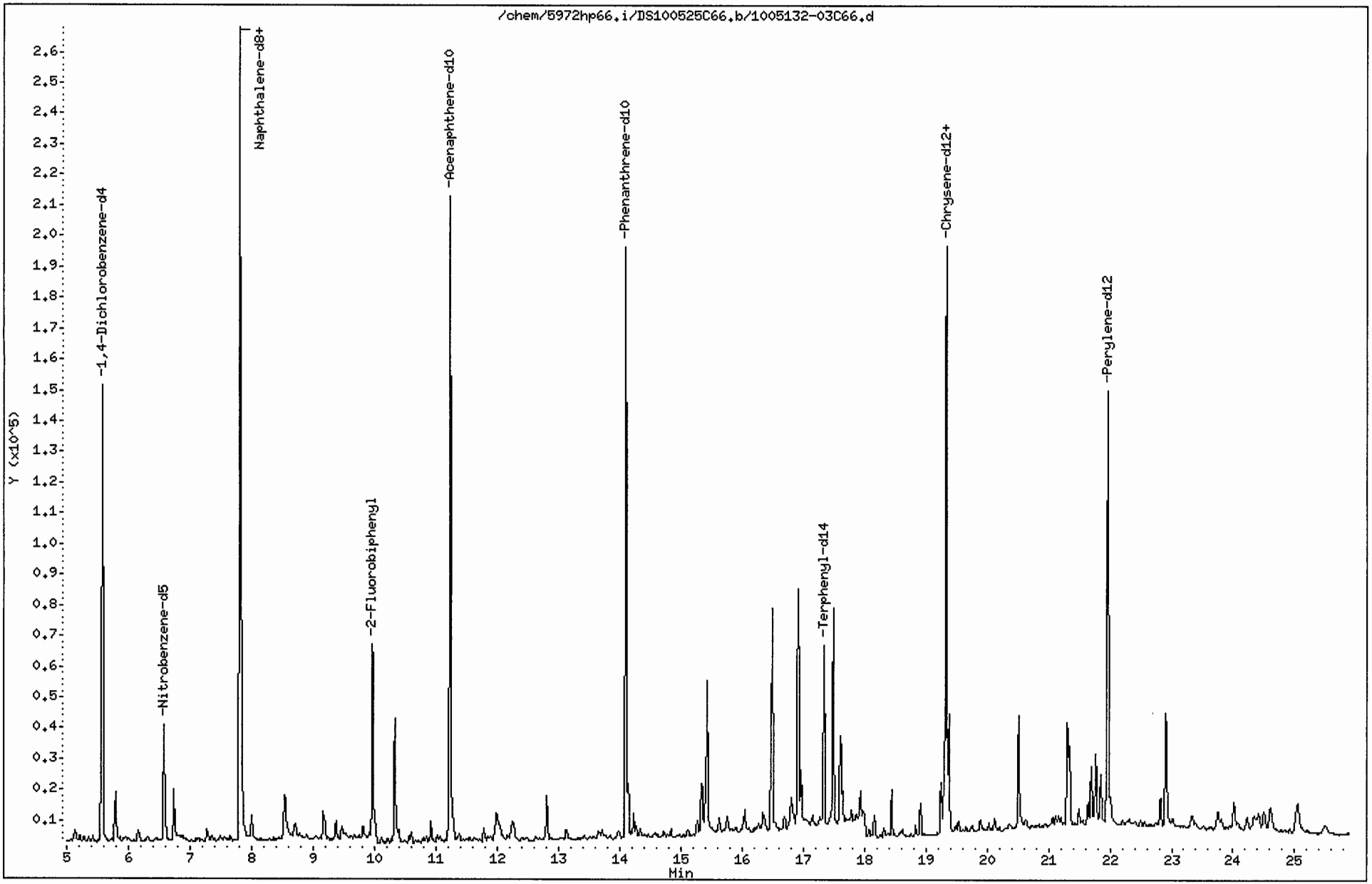
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.7	J
91-57-6	2-Methylnaphthalene	1.3	J
208-96-8	Acenaphthylene	1.1	J
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
85-01-8	Phenanthrene	2.7	J
120-12-7	Anthracene	1.2	J
206-44-0	Fluoranthene	14	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	4.8	J
218-01-9	Chrysene	7.5	J
205-99-2	Benzo(b)fluoranthene	7.9	J
207-08-9	Benzo(k)fluoranthene	6.5	J
50-32-8	Benzo(a)pyrene	4.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	J
53-70-3	Dibenzo(a,h)anthracene	0.72	J
191-24-2	Benzo(g,h,i)perylene	2.3	J

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d
Date : 26-MAY-2010 14:43
Client ID: SS77-0-1
Sample Info: 1005132-03;2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d
Report Date: 03-Jun-2010 17:54

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d
Lab Smp Id: 1005132-03 Client Smp ID: SS77-0-1
Inj Date : 26-MAY-2010 14:43
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-03:2730
Misc Info : SS77-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 18:08 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	23.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.583	5.560	(1.000)	100402	2.00000		(a)
* 2 Naphthalene-d8	136	7.812	7.802	(1.000)	348711	2.00000		(a)
* 3 Acenaphthene-d10	164	11.230	11.231	(1.000)	152503	2.00000		(a)
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	262039	2.00000		(a)
* 5 Chrysene-d12	240	19.336	19.336	(1.000)	243496	2.00000		(a)
* 6 Perylene-d12	264	21.961	21.961	(1.000)	190956	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.574	6.563	(0.841)	46337	0.59717	13	
$ 10 2-Fluorobiphenyl	172	9.976	9.966	(0.888)	110829	0.69643	15	
$ 12 Terphenyl-d14	244	17.348	17.347	(0.897)	78298	0.88500	19	
13 Naphthalene	128	7.852	7.841	(1.005)	16762	0.07771	1.7	(a)
15 2-Methylnaphthalene	141	9.168	9.170	(0.816)	6314	0.05783	1.3	(a)
17 Acenaphthylene	152	10.918	10.918	(0.972)	8276	0.04858	1.1	(a)
18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d
Report Date: 03-Jun-2010 17:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.140	14.140	(1.003)	20642	0.12633	2.7(a)
26 Anthracene	178	14.232	14.231	(1.009)	8266	0.05624	1.2(a)
27 Fluoranthene	202	16.500	16.500	(0.853)	103584	0.64155	14
28 Pyrene	202	16.917	16.917	(0.875)	102427	0.58252	13
29 Benzo(a)anthracene	228	19.301	19.301	(0.998)	29574	0.22343	4.8(a)
30 Chrysene	228	19.379	19.379	(1.002)	49902	0.34807	7.5(a)
31 Benzo(b)fluoranthene	252	21.308	21.308	(0.970)	46014	0.36538	7.9(a)
32 Benzo(k)fluoranthene	252	21.351	21.352	(0.972)	40997	0.30251	6.5(a)
33 Benzo(a)pyrene	252	21.852	21.853	(0.995)	21468	0.18917	4.1(a)
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.008	(1.094)	13829	0.13812	3.0(a)
35 Dibenzo(a,h)anthracene	278	24.083	24.073	(1.097)	3287	0.03319	0.72(a)
36 Benzo(g,h,i)perylene	276	24.606	24.595	(1.120)	11610	0.10462	2.3(aM)

2

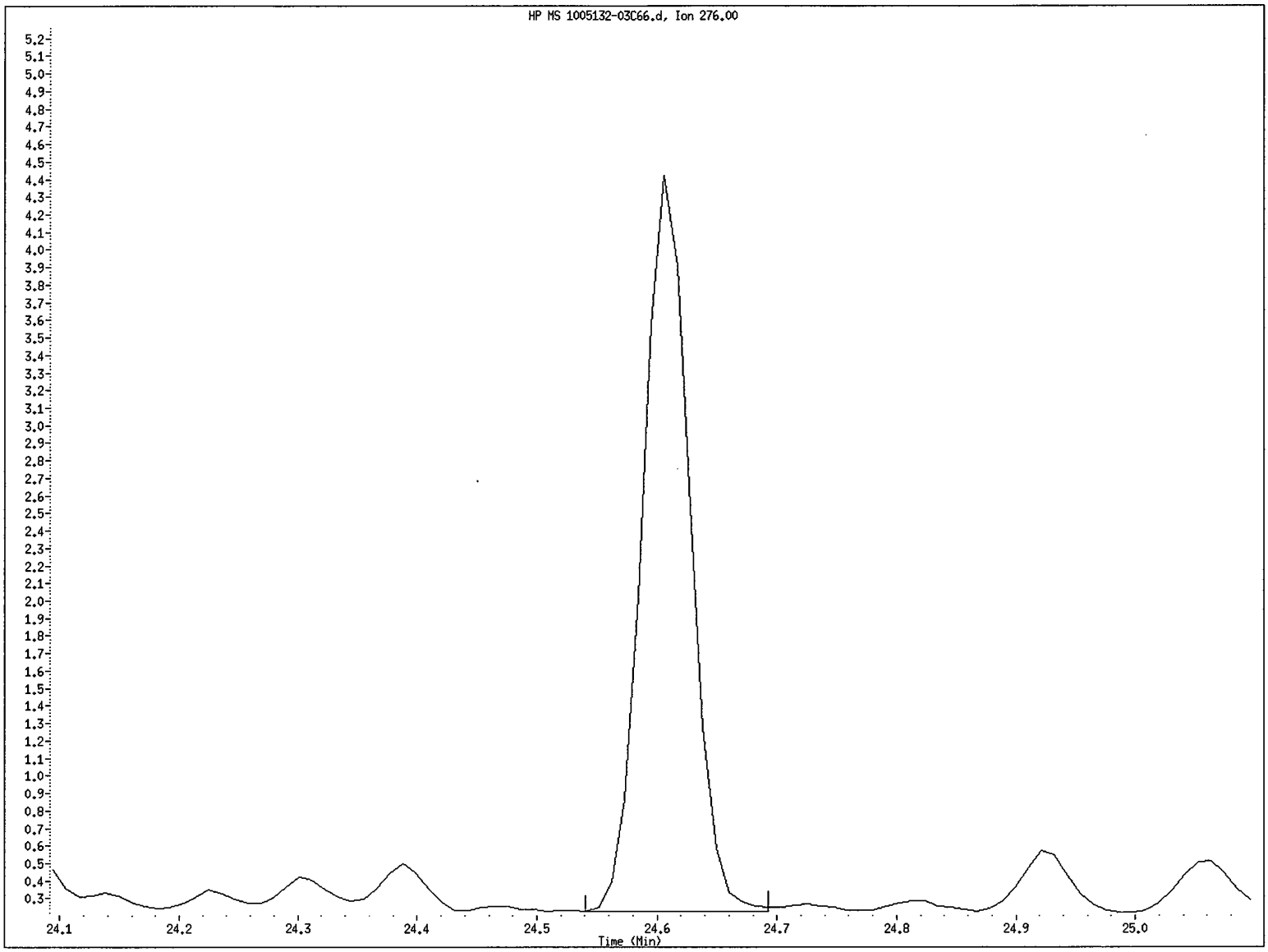
6/3/10

MH

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 11610 Manually integrated



File name: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d
Client ID: SS77-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 14:43
Retention Time: 24.61
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

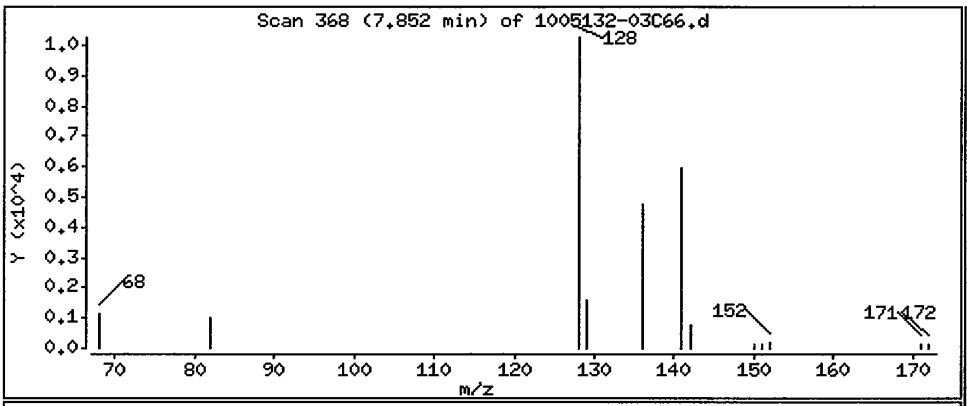
Client ID: SS77-0-1 Instrument: 5972hp66.i

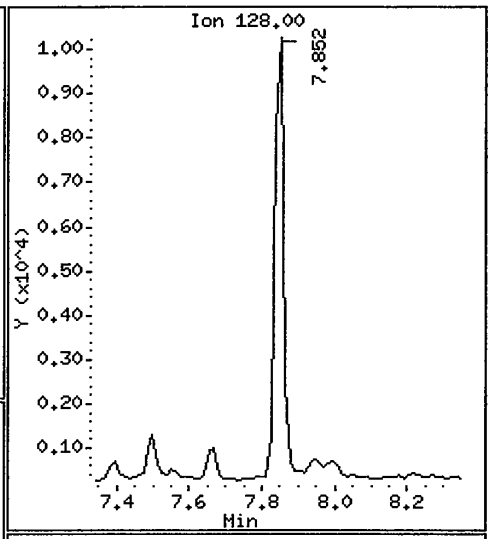
Sample Info: 1005132-03:2730

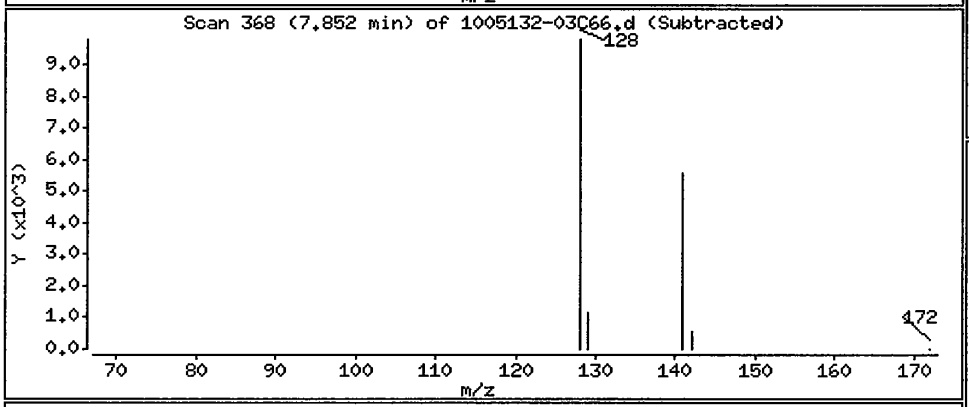
Volume Injected (uL): 2.0 Operator: 2730

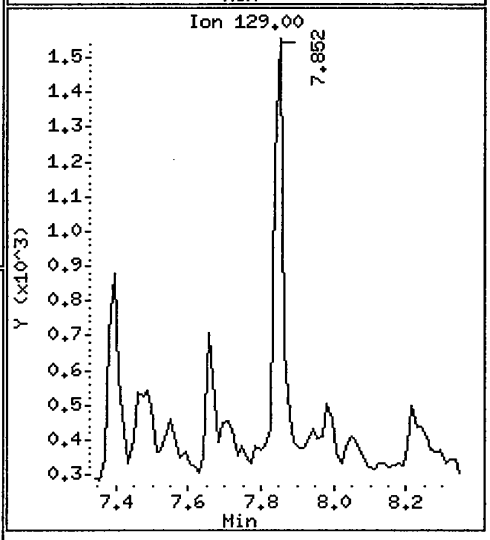
Column phase: Rtx-5MS Column diameter: 0.32

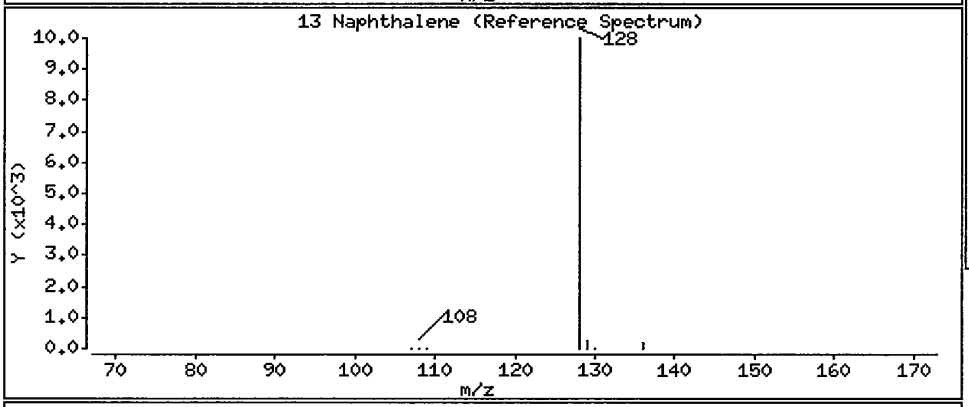
13 Naphthalene Concentration: 1.7 ug/Kg

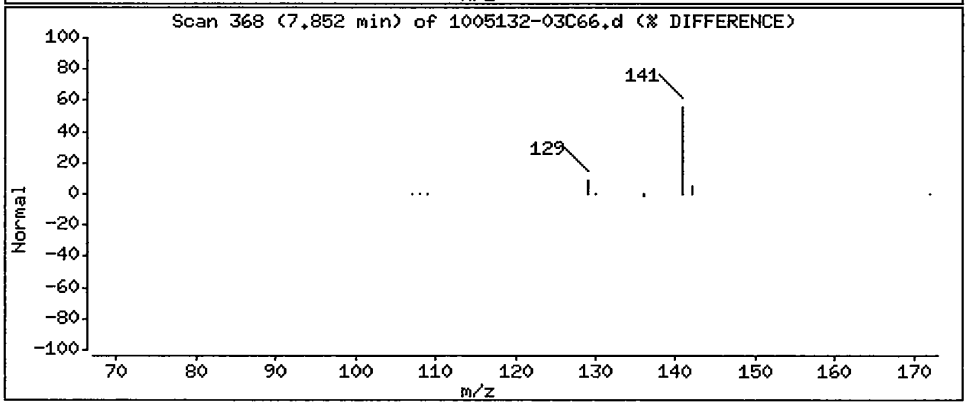












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

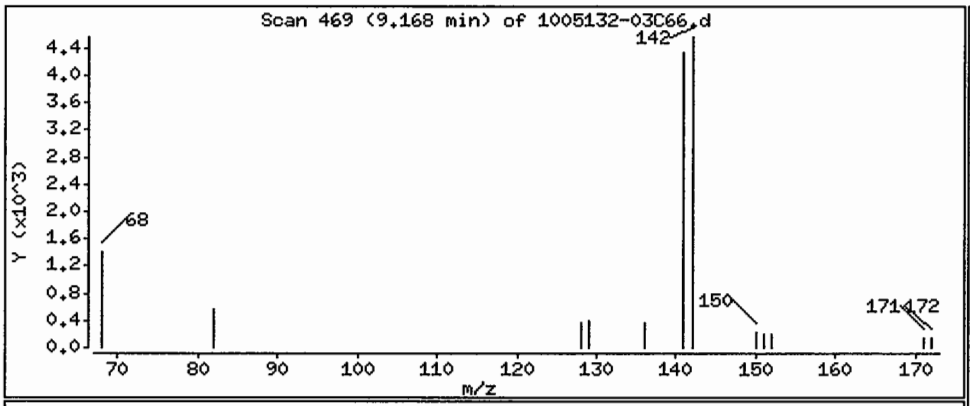
Client ID: SS77-0-1 Instrument: 5972hp66.i

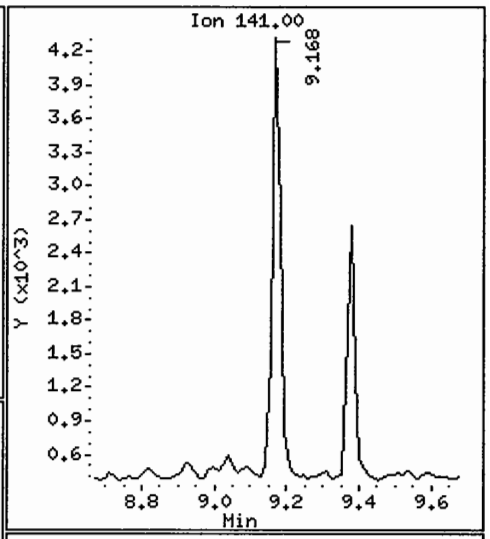
Sample Info: 1005132-03:2730

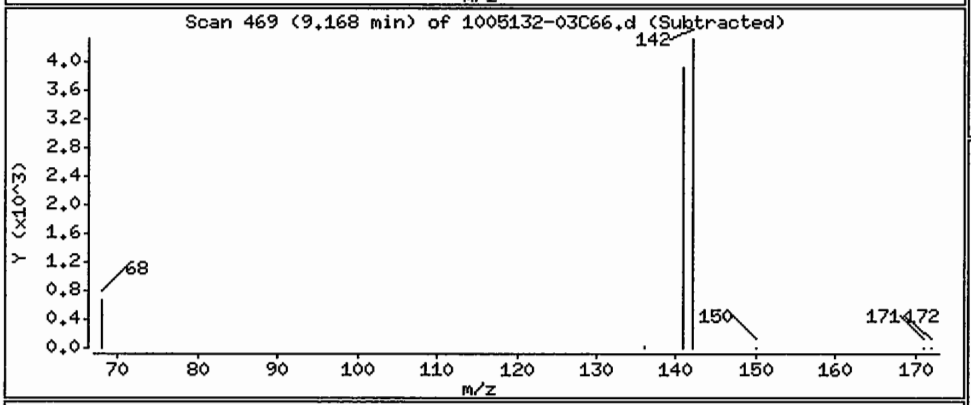
Volume Injected (uL): 2.0 Operator: 2730

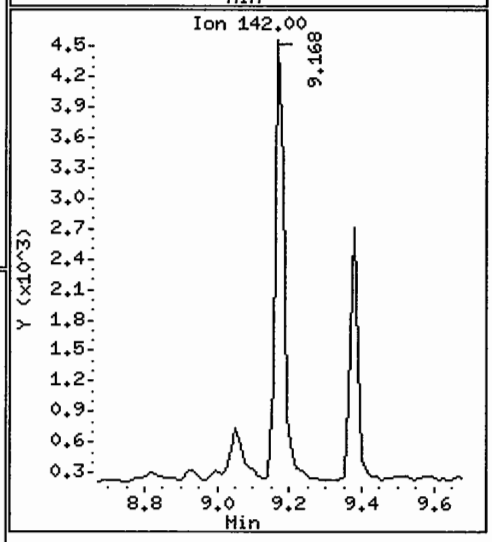
Column phase: Rtx-5MS Column diameter: 0.32

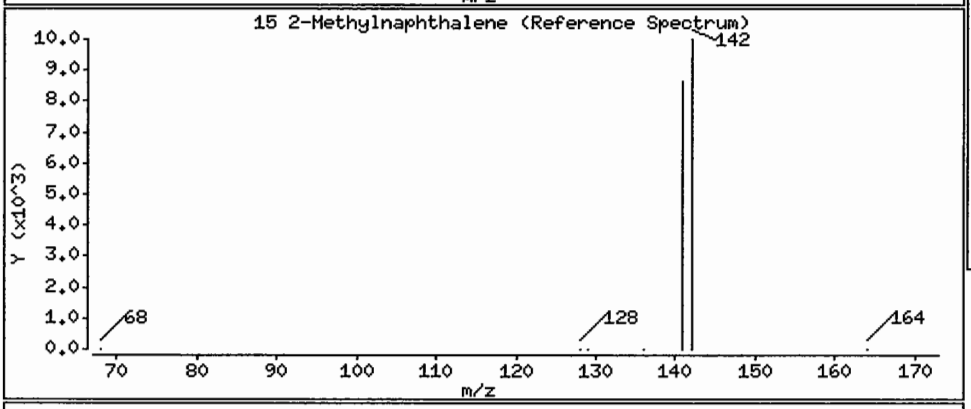
15 2-Methylnaphthalene Concentration: 1.3 ug/Kg

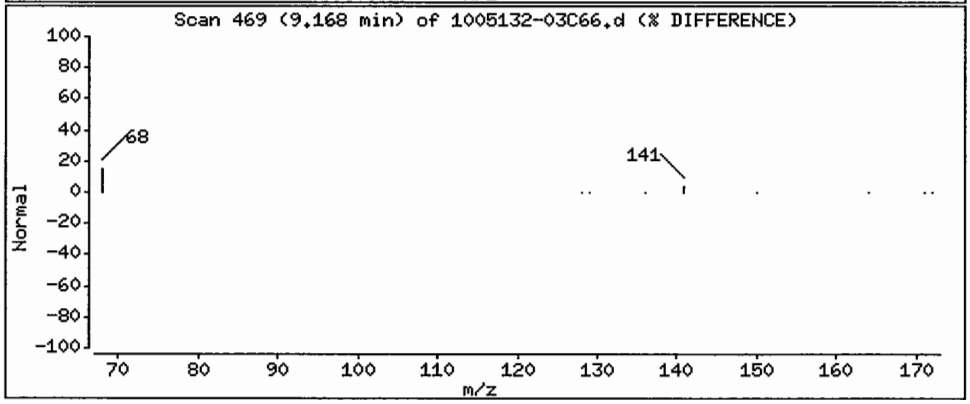












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

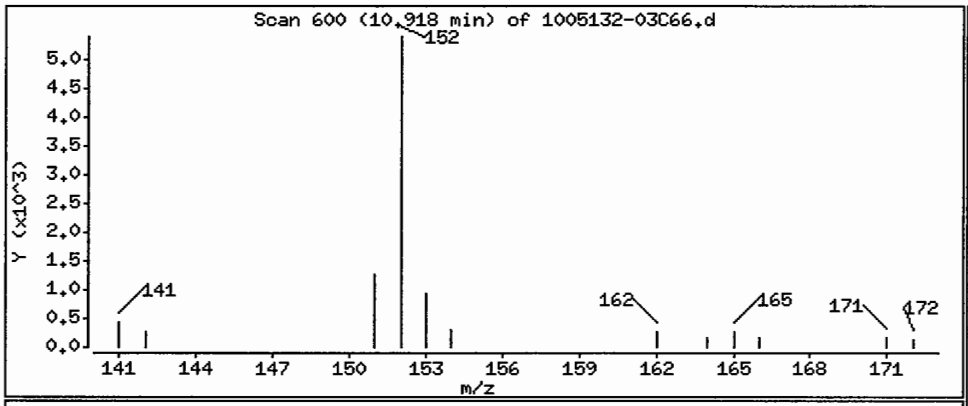
Client ID: SS77-0-1 Instrument: 5972hp66.i

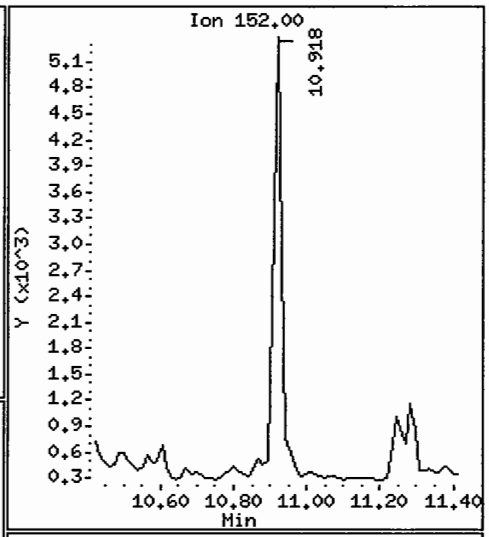
Sample Info: 1005132-03:2730

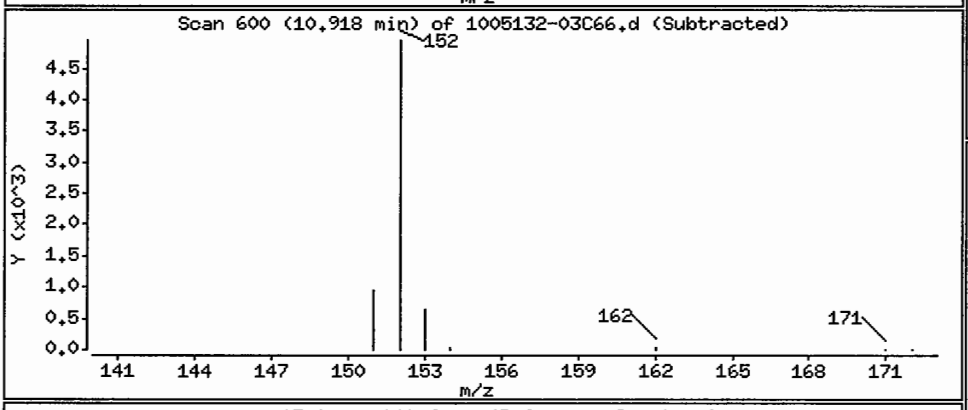
Volume Injected (uL): 2.0 Operator: 2730

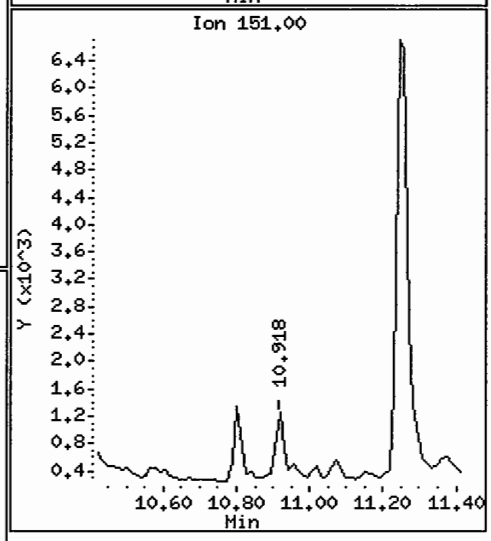
Column phase: Rtx-5MS Column diameter: 0.32

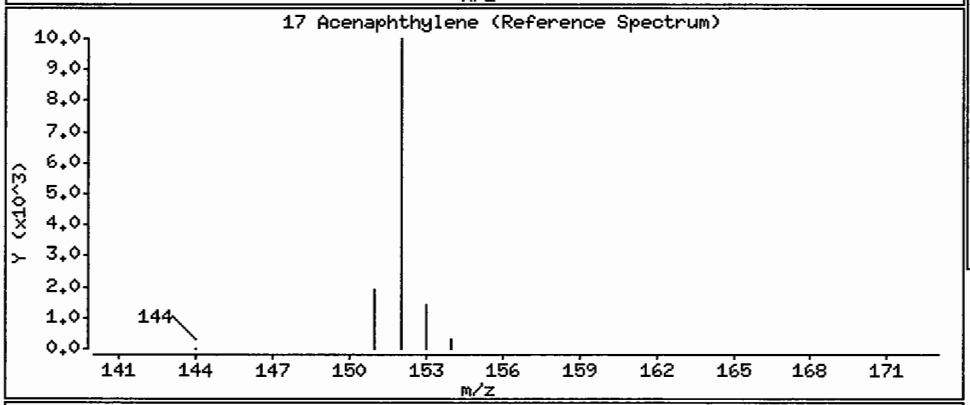
17 Acenaphthylene Concentration: 1.1 ug/Kg

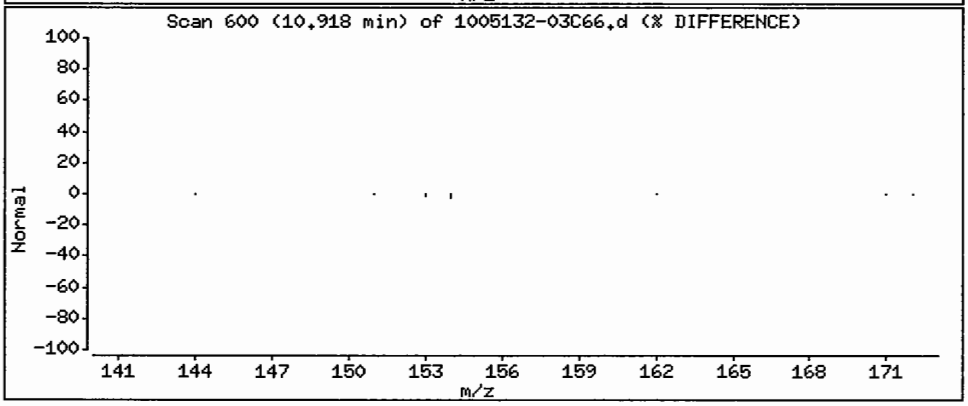












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

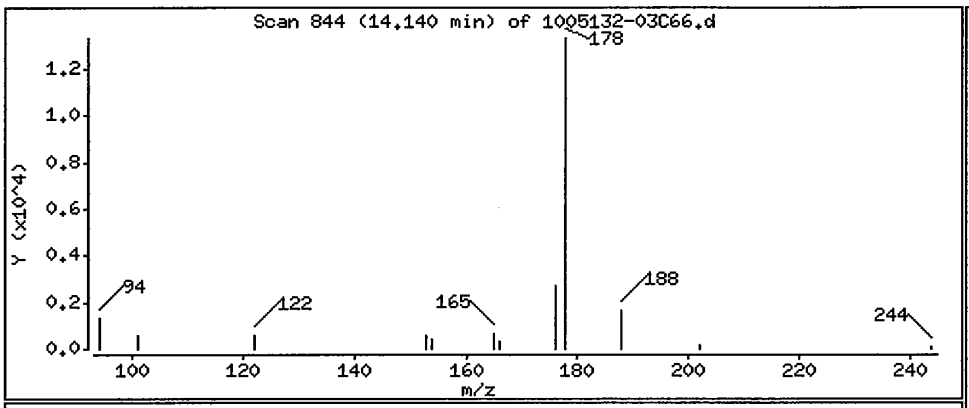
Client ID: SS77-0-1 Instrument: 5972hp66.i

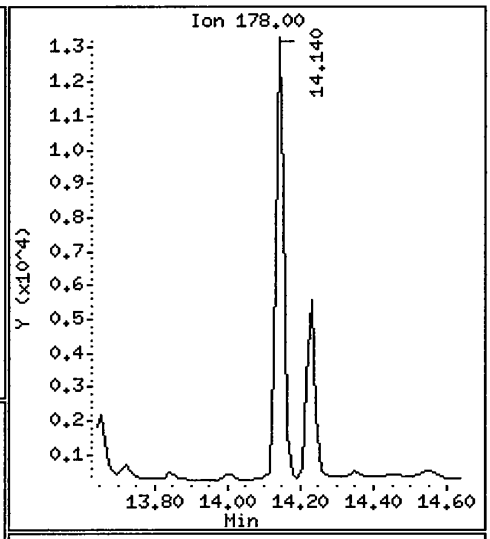
Sample Info: 1005132-03:2730

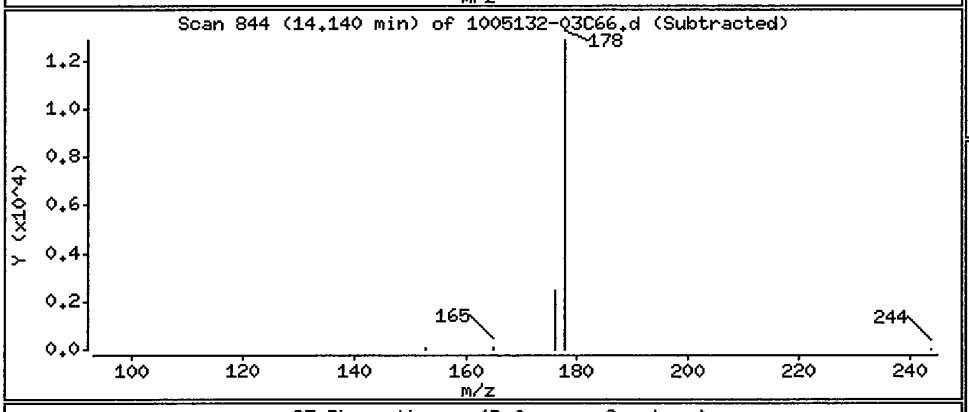
Volume Injected (uL): 2.0 Operator: 2730

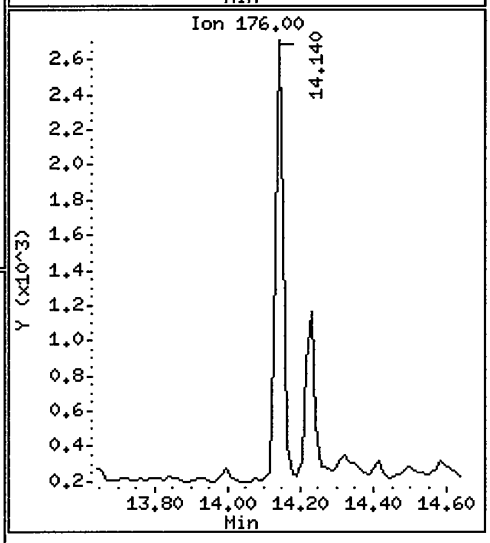
Column phase: Rtx-5MS Column diameter: 0.32

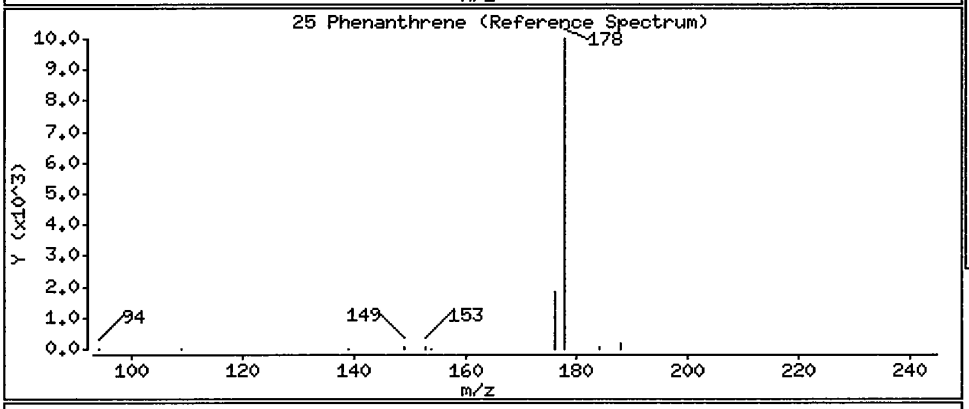
25 Phenanthrene Concentration: 2.7 ug/Kg

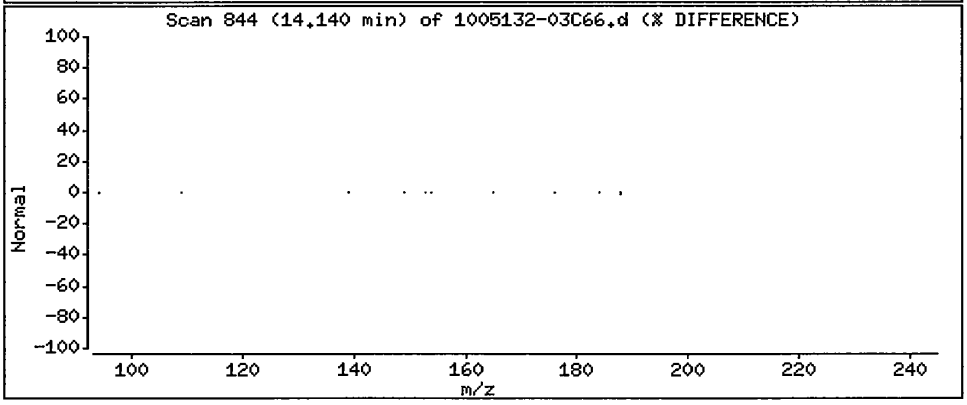












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

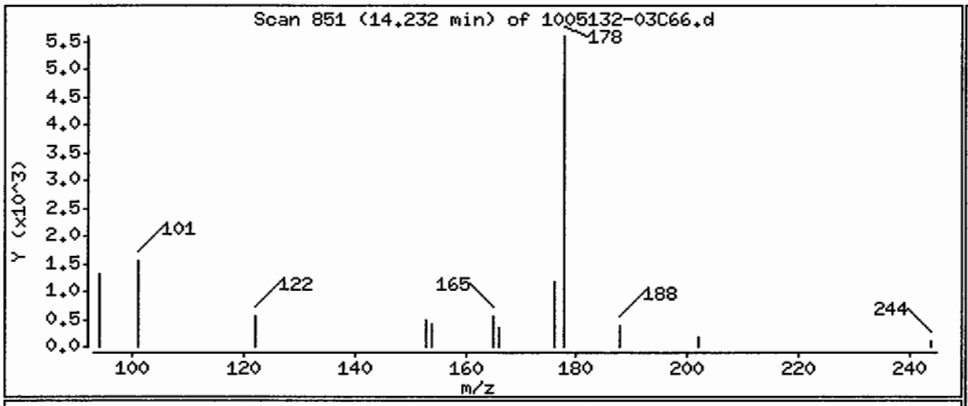
Client ID: SS77-0-1 Instrument: 5972hp66.i

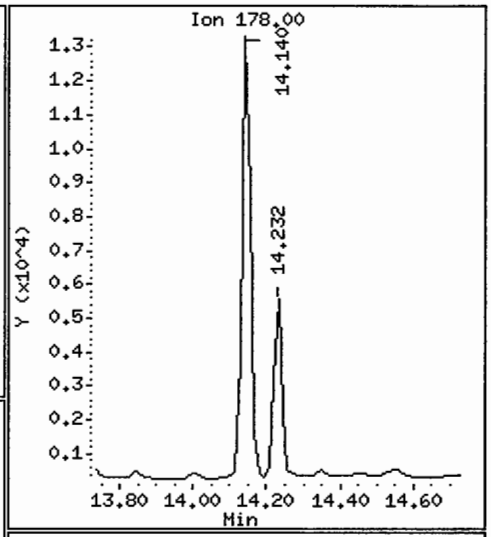
Sample Info: 1005132-03:2730

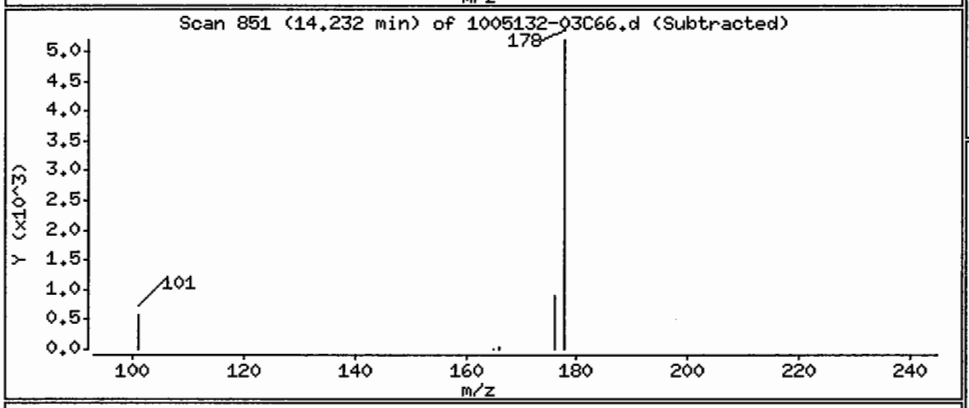
Volume Injected (uL): 2.0 Operator: 2730

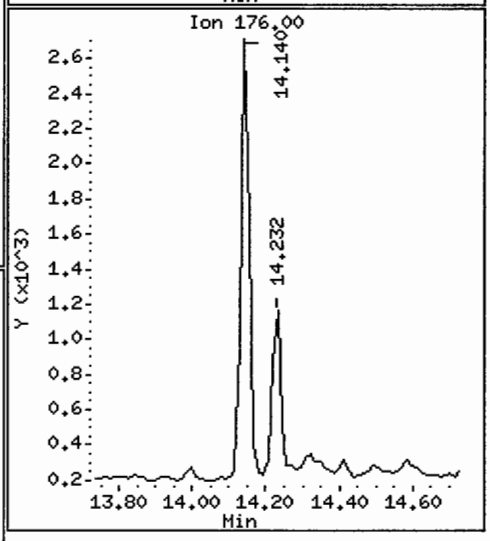
Column phase: Rtx-5MS Column diameter: 0.32

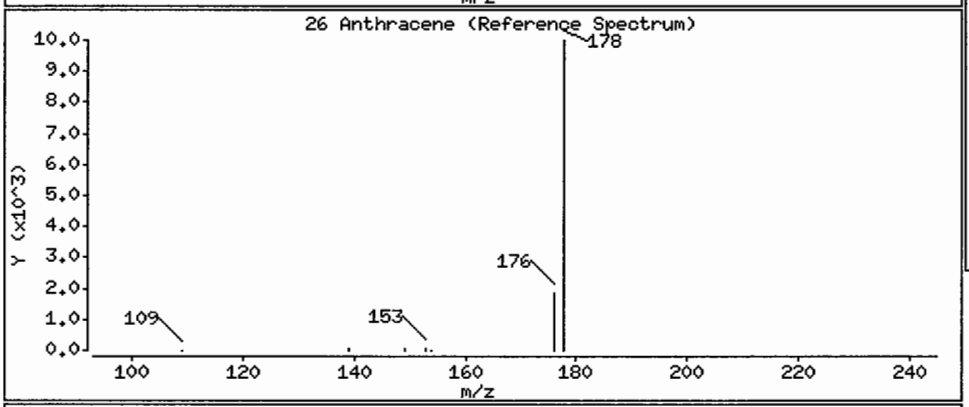
26 Anthracene Concentration: 1.2 ug/Kg

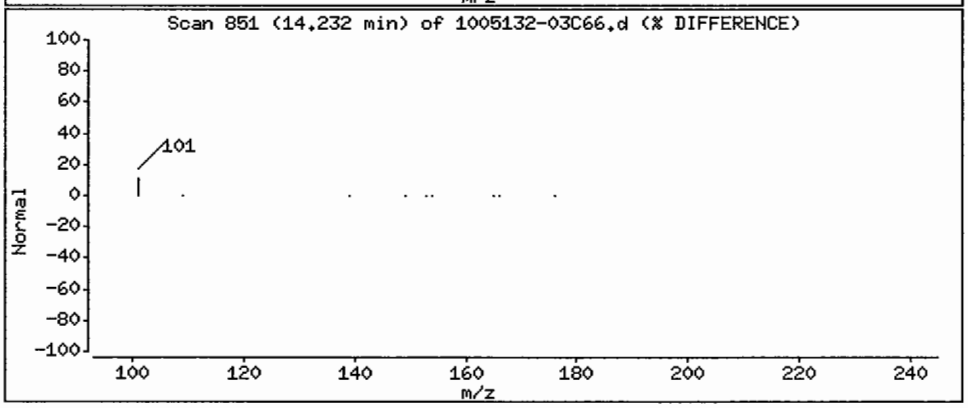












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

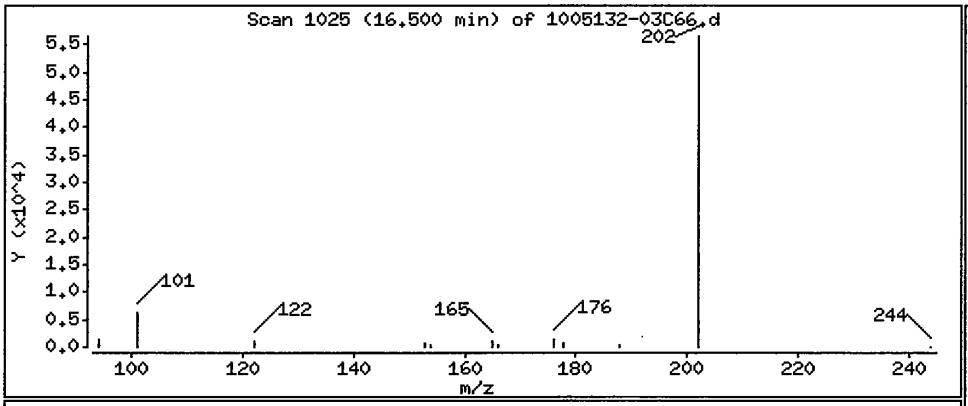
Client ID: SS77-0-1 Instrument: 5972hp66.i

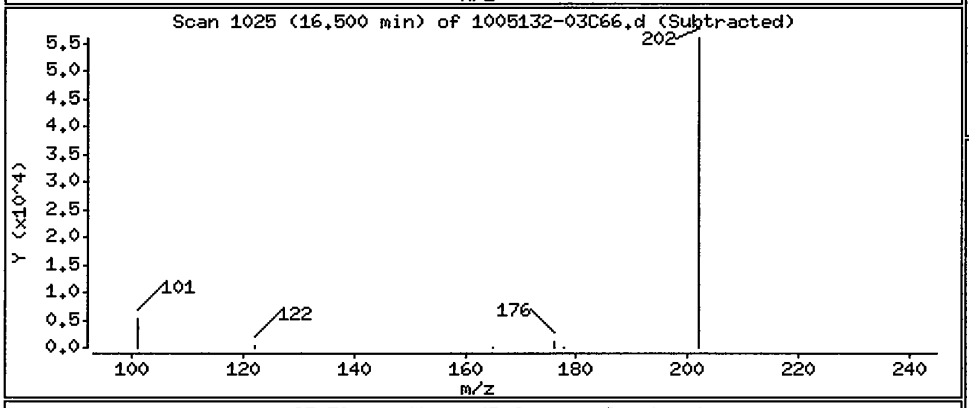
Sample Info: 1005132-03:2730

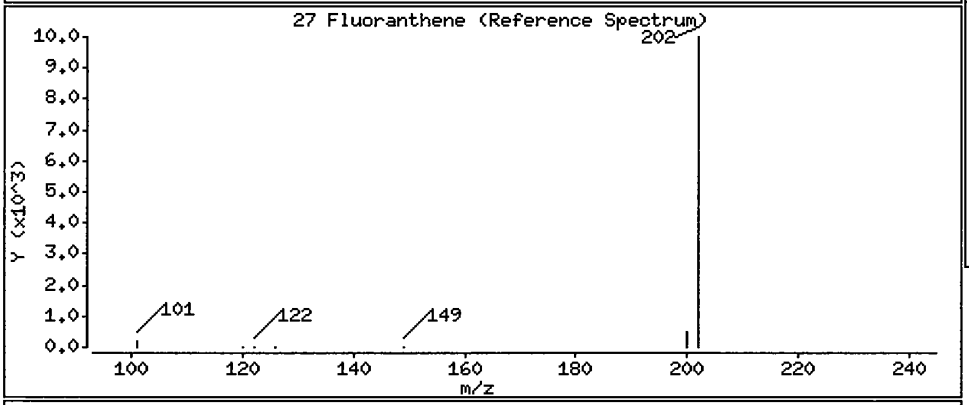
Volume Injected (uL): 2.0 Operator: 2730

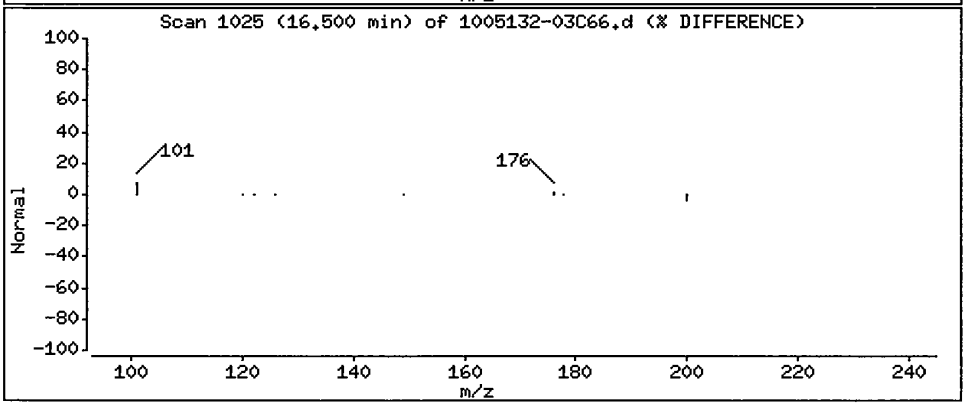
Column phase: Rtx-5MS Column diameter: 0.32

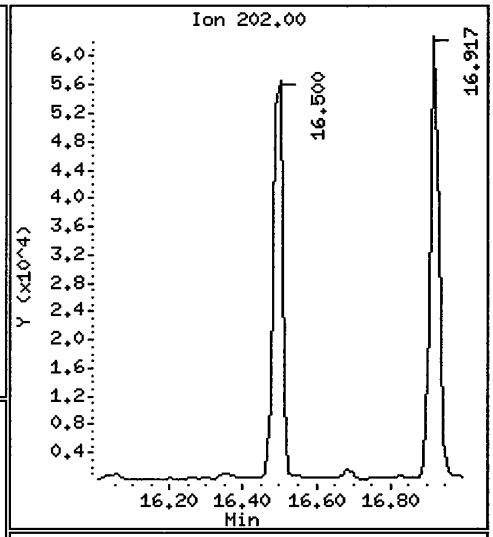
27 Fluoranthene Concentration: 14 ug/Kg

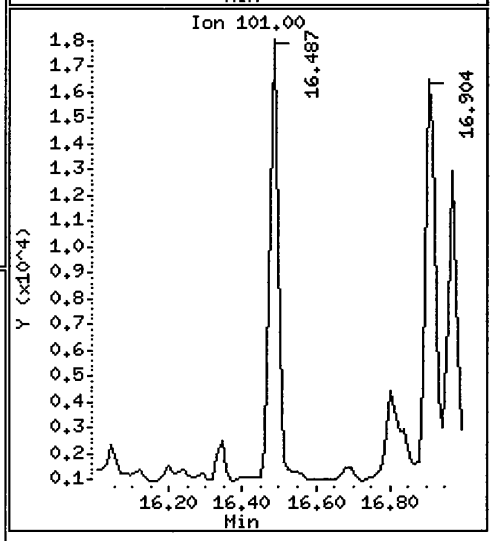












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

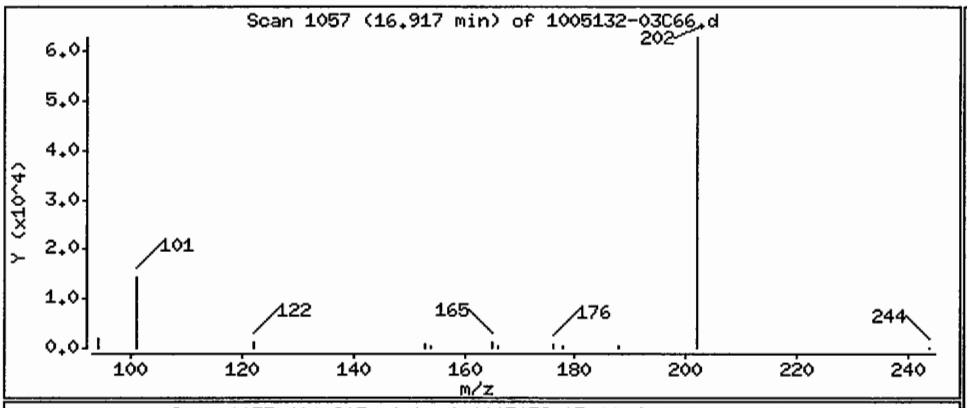
Client ID: SS77-0-1 Instrument: 5972hp66.i

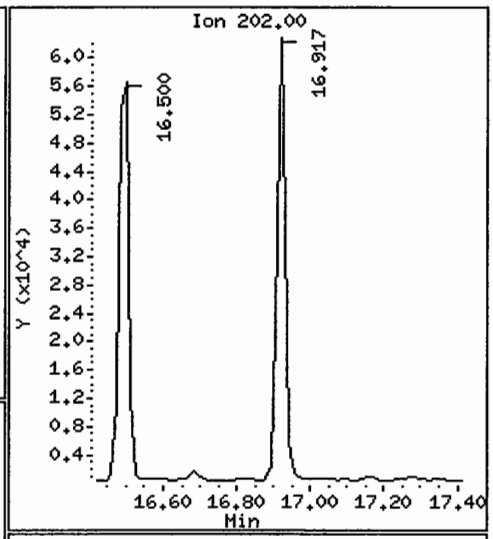
Sample Info: 1005132-03:2730

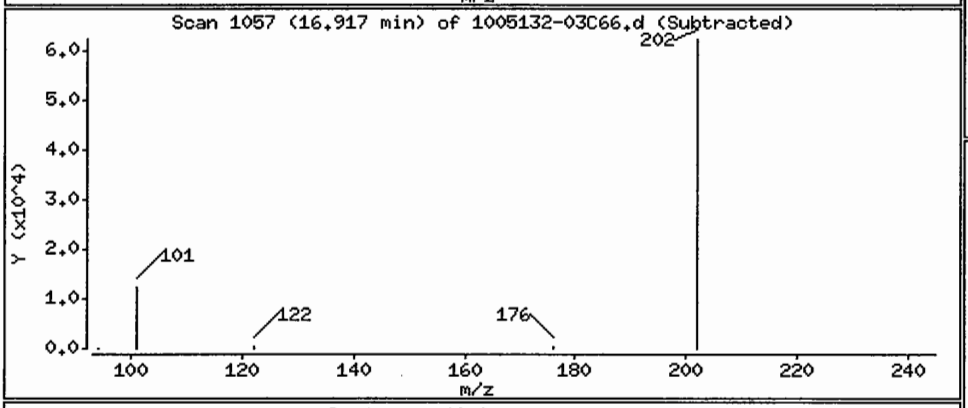
Volume Injected (uL): 2.0 Operator: 2730

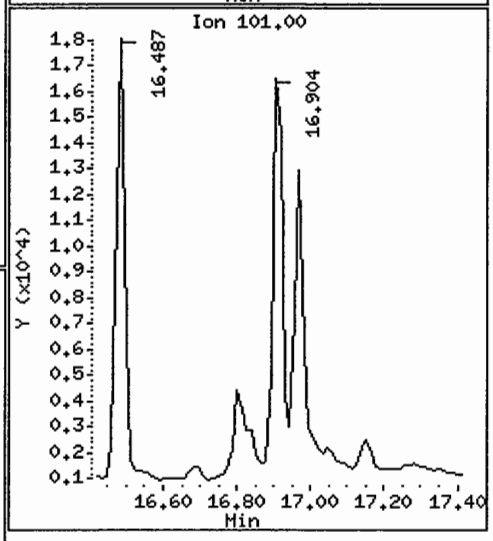
Column phase: Rtx-5MS Column diameter: 0.32

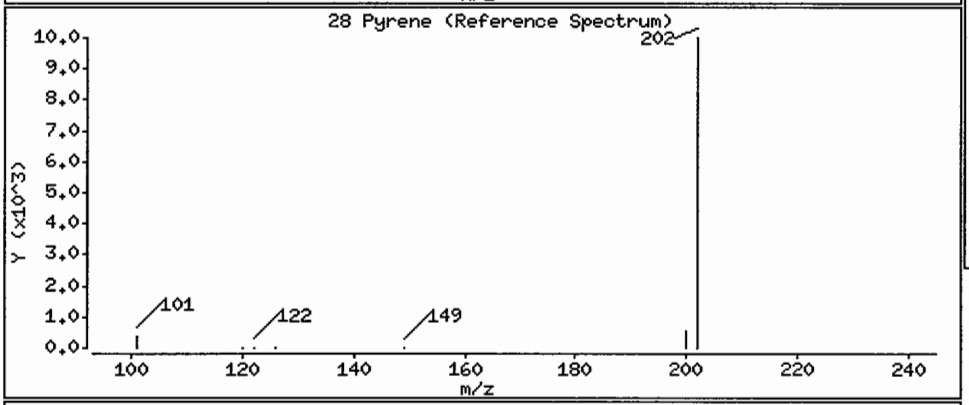
28 Pyrene Concentration: 13 ug/Kg

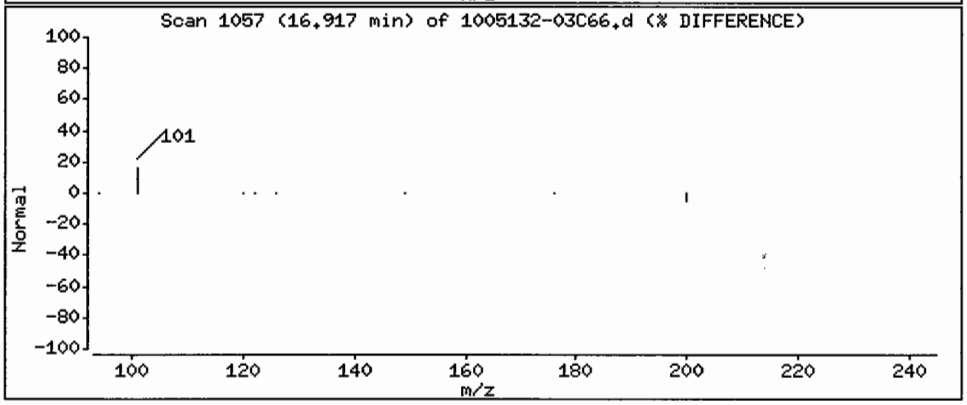












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

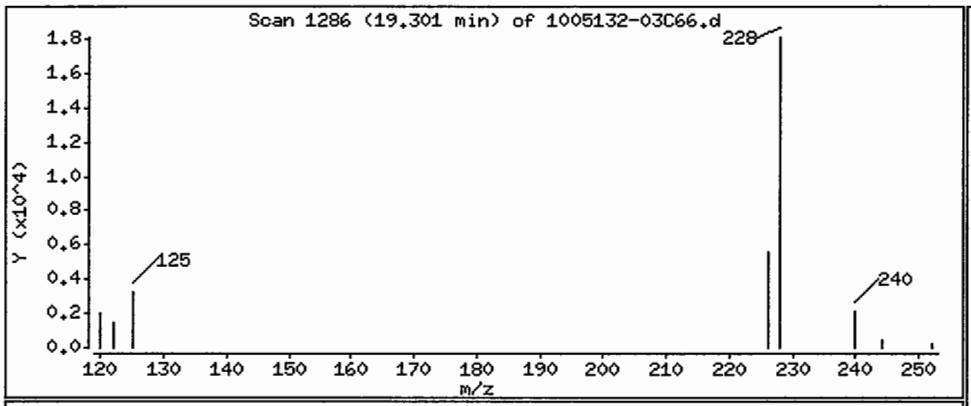
Client ID: SS77-0-1 Instrument: 5972hp66.i

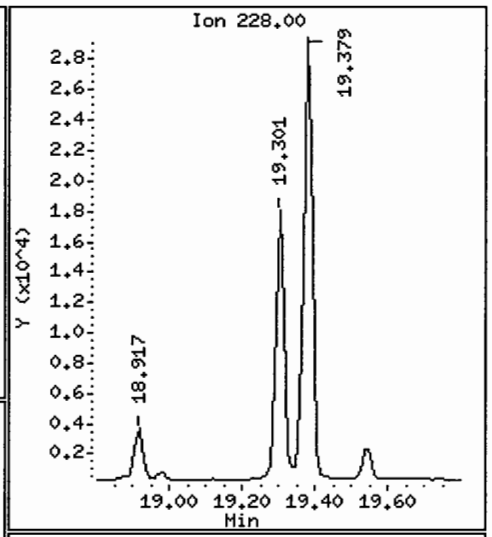
Sample Info: 1005132-03;2730

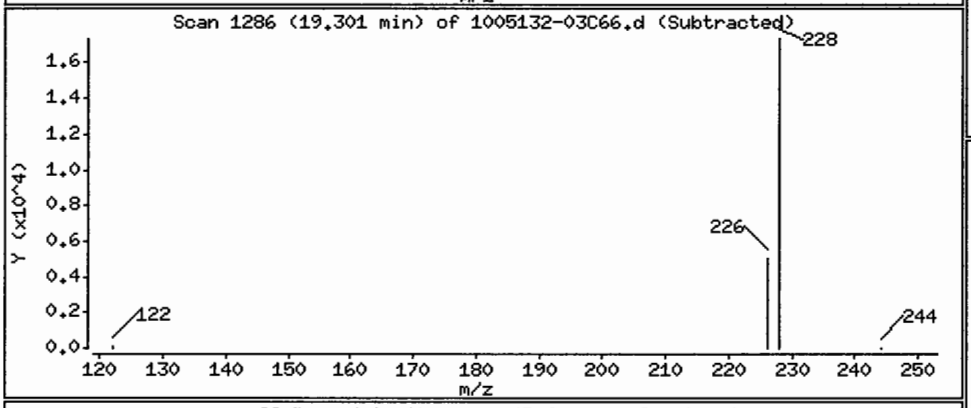
Volume Injected (uL): 2.0 Operator: 2730

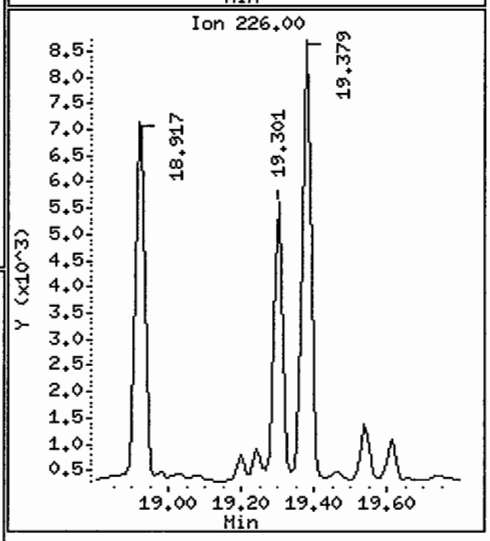
Column phase: Rtx-5MS Column diameter: 0.32

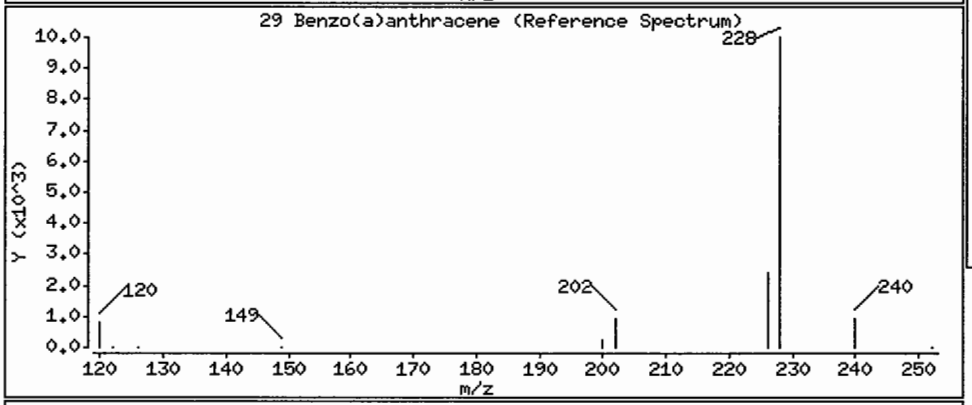
29 Benzo(a)anthracene Concentration: 4.8 ug/Kg

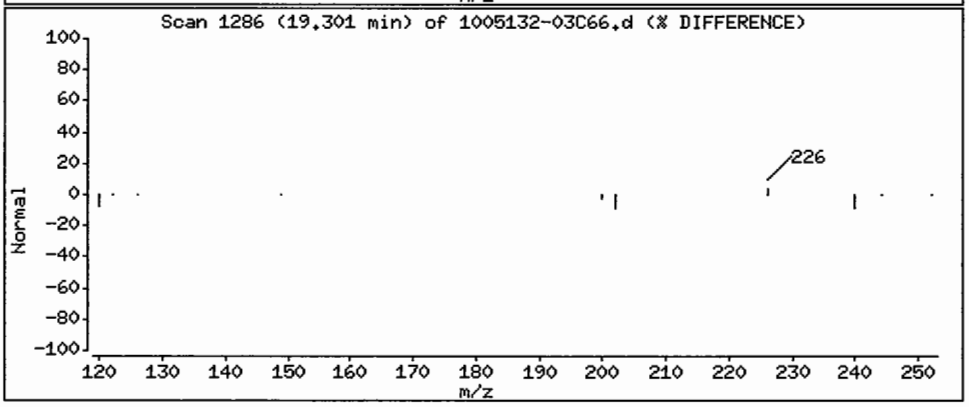












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

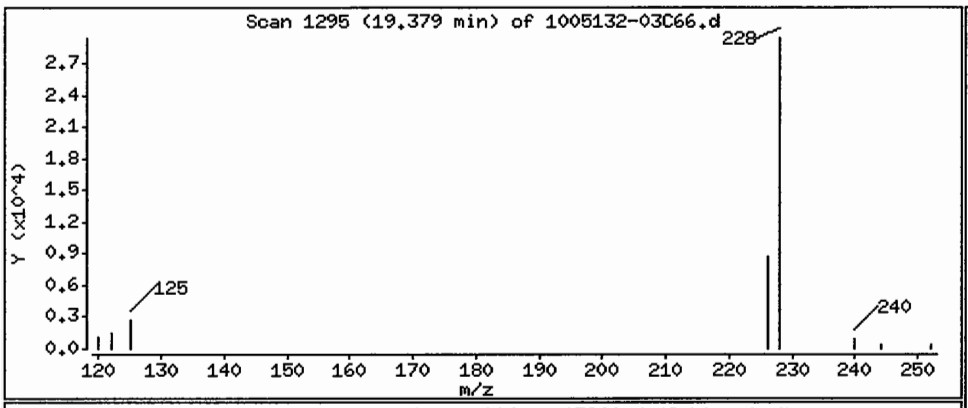
Client ID: SS77-0-1 Instrument: 5972hp66.i

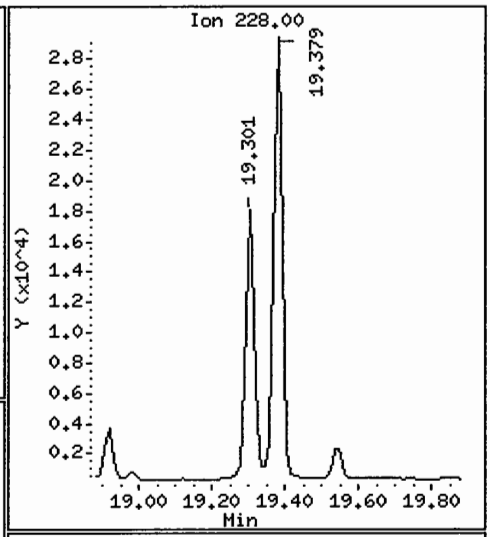
Sample Info: 1005132-03:2730

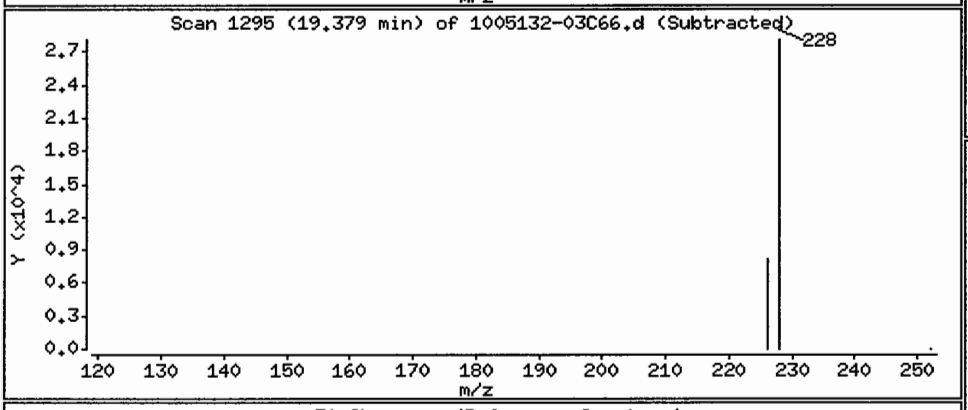
Volume Injected (uL): 2.0 Operator: 2730

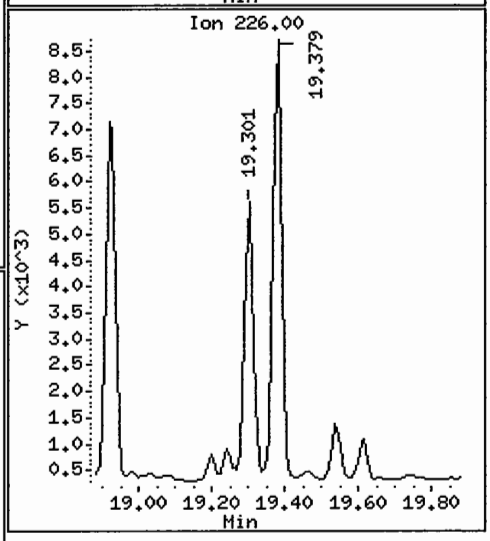
Column phase: Rtx-5MS Column diameter: 0.32

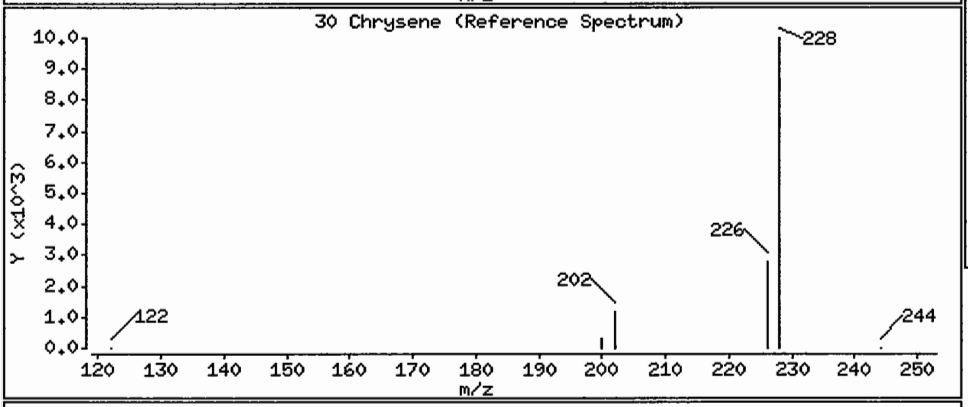
30 Chrysene Concentration: 7.5 ug/Kg

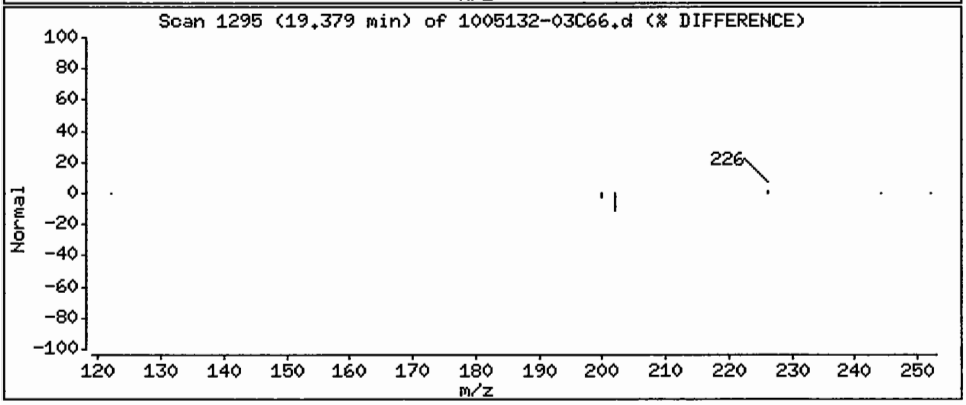












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

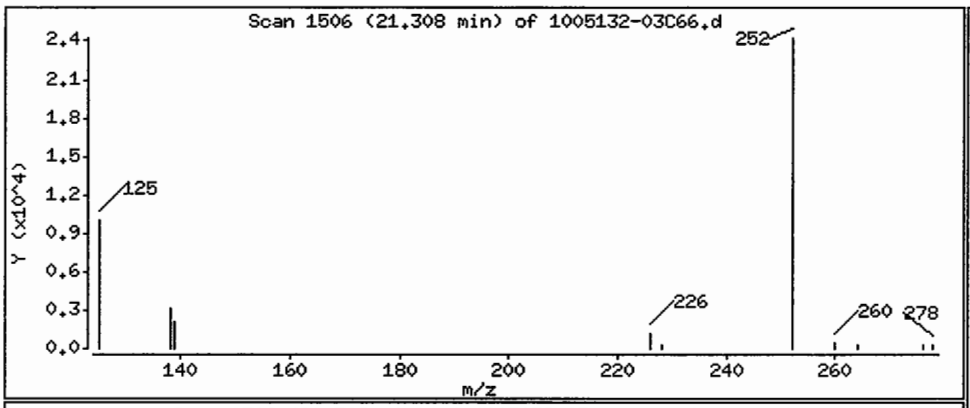
Client ID: SS77-0-1 Instrument: 5972hp66.i

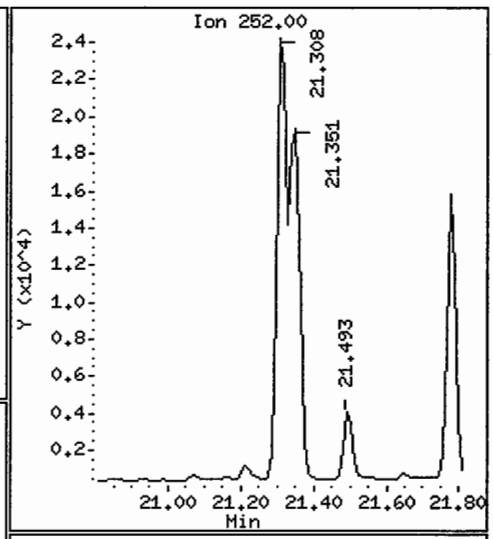
Sample Info: 1005132-03:2730

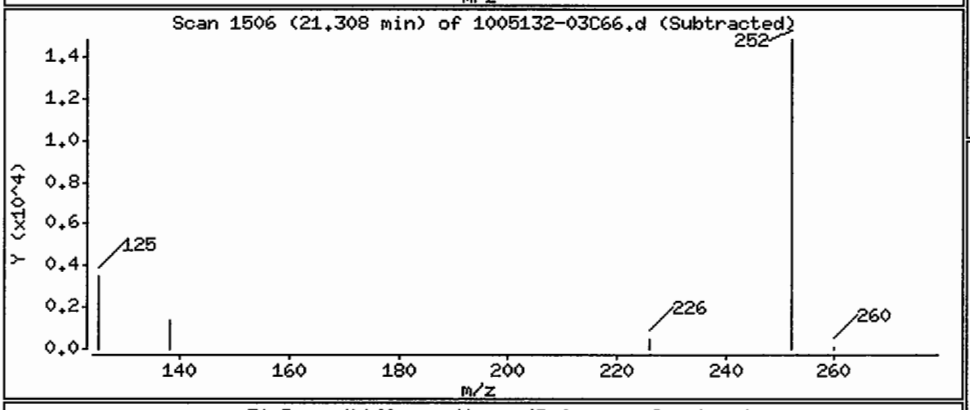
Volume Injected (uL): 2.0 Operator: 2730

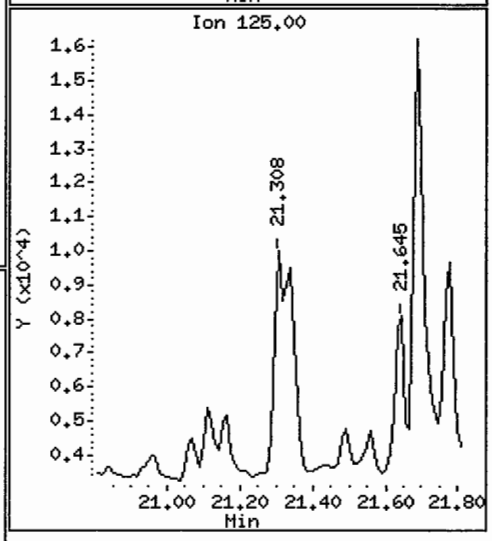
Column phase: Rtx-5MS Column diameter: 0.32

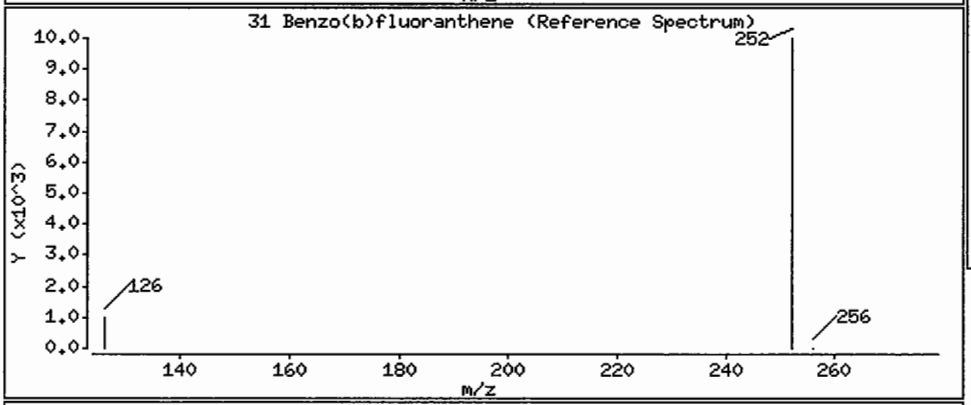
31 Benzo(b)fluoranthene Concentration: 7.9 ug/Kg

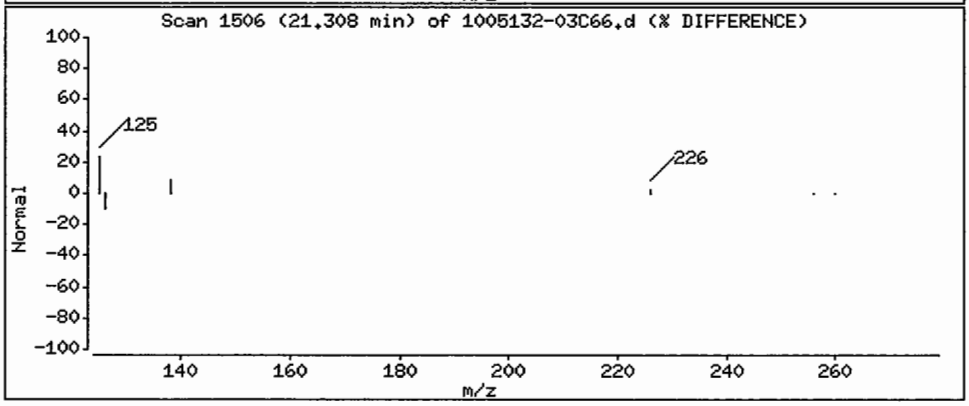












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

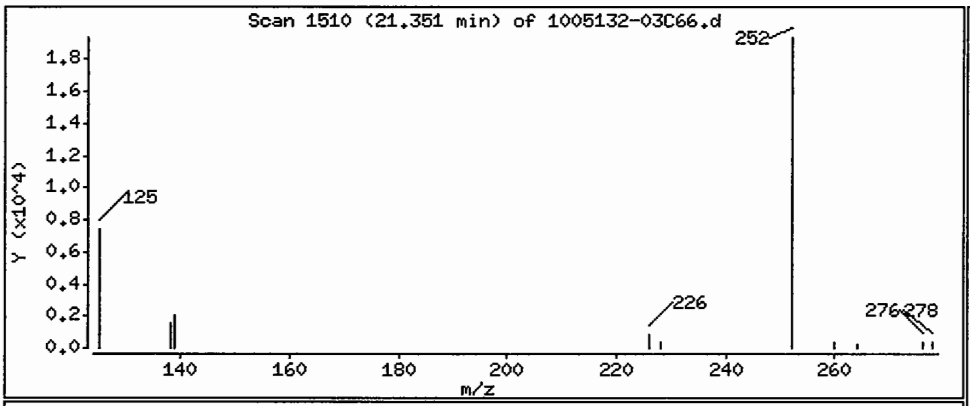
Client ID: SS77-0-1 Instrument: 5972hp66.i

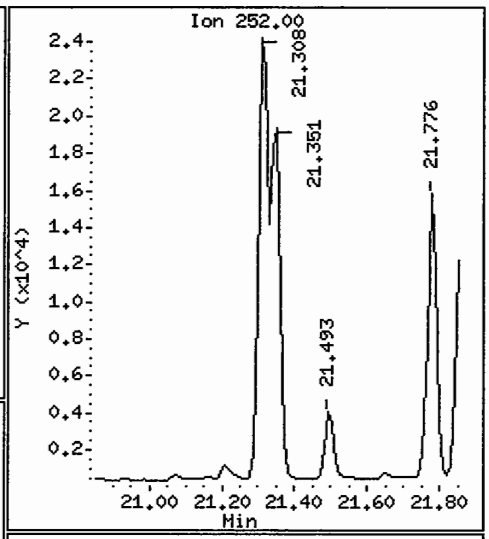
Sample Info: 1005132-03:2730

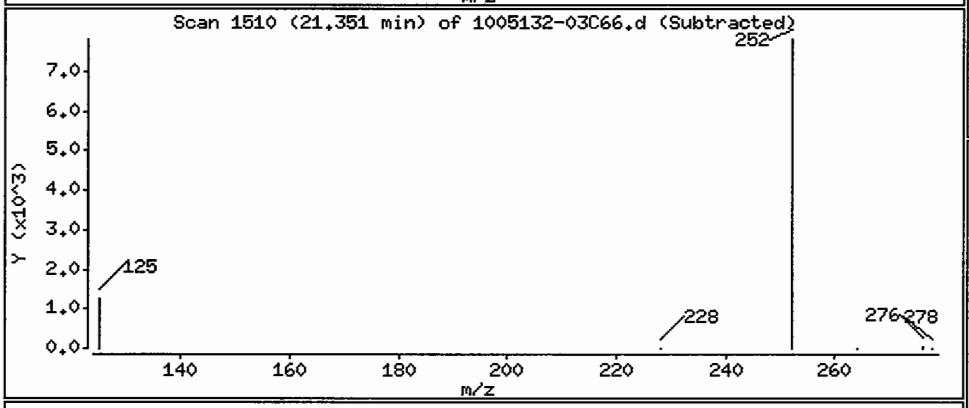
Volume Injected (uL): 2.0 Operator: 2730

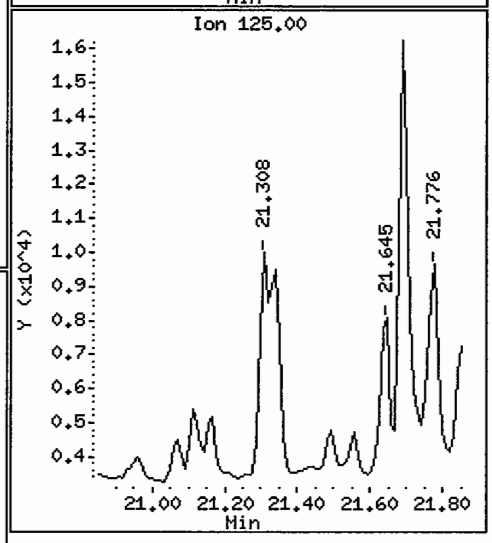
Column phase: Rtx-5MS Column diameter: 0.32

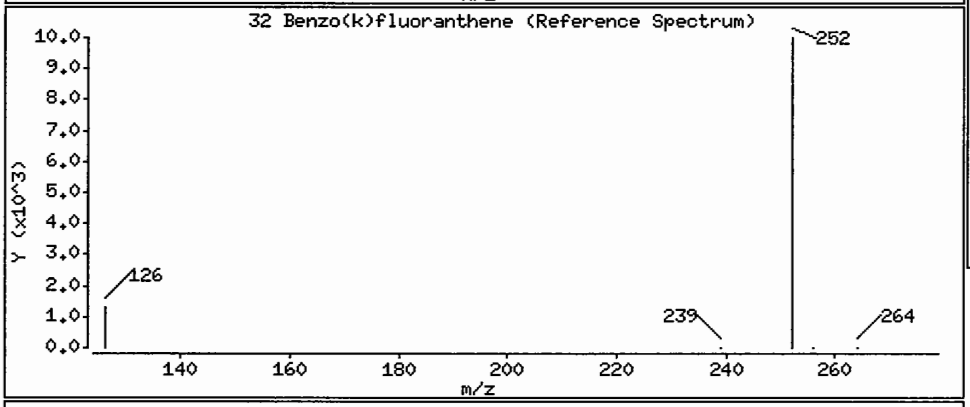
32 Benzo(k)fluoranthene Concentration: 6.5 ug/Kg

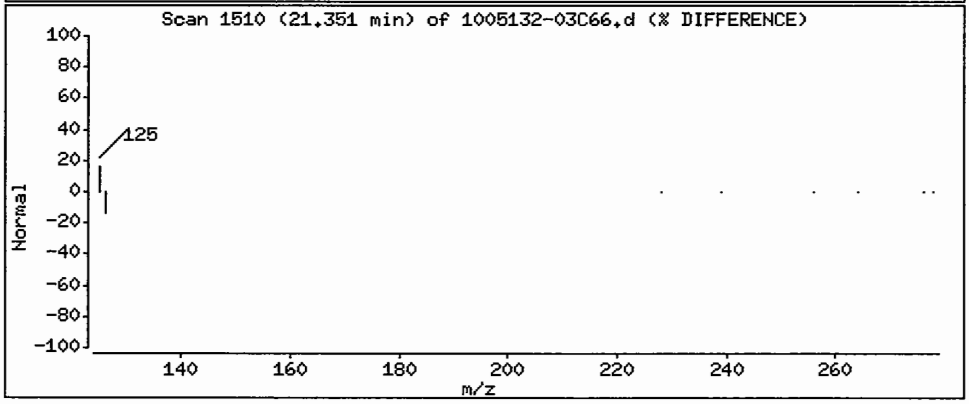












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

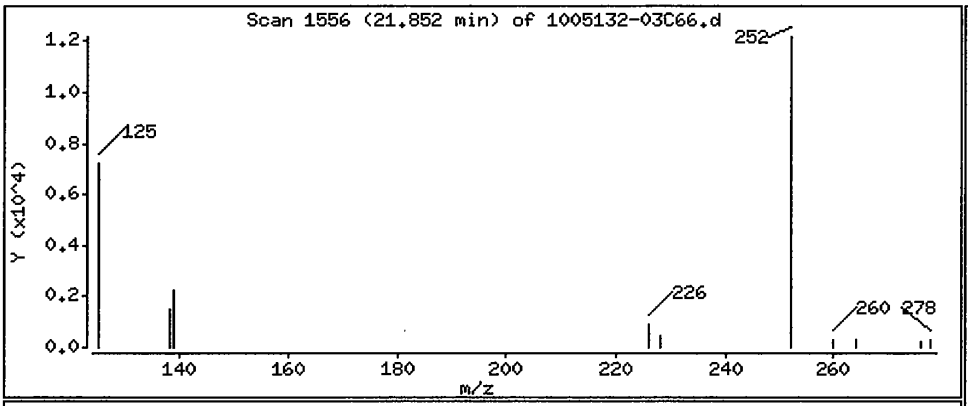
Client ID: SS77-0-1 Instrument: 5972hp66.i

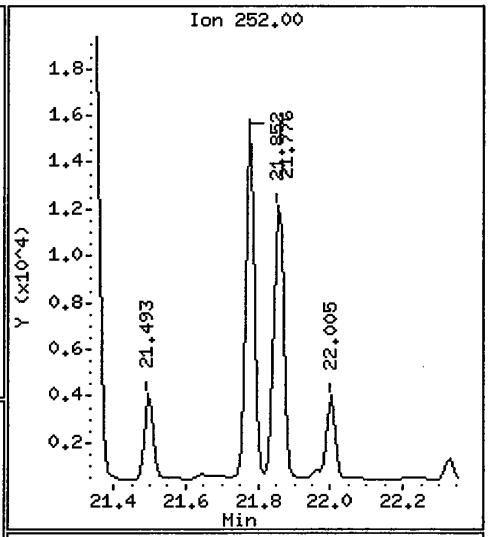
Sample Info: 1005132-03:2730

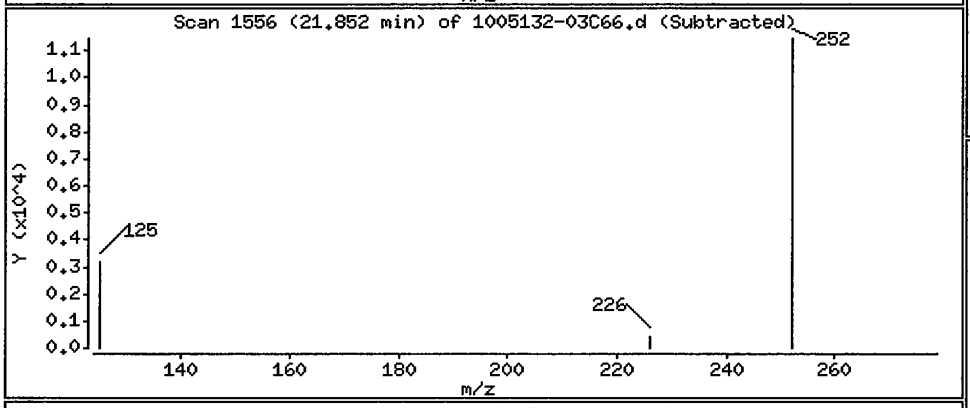
Volume Injected (uL): 2.0 Operator: 2730

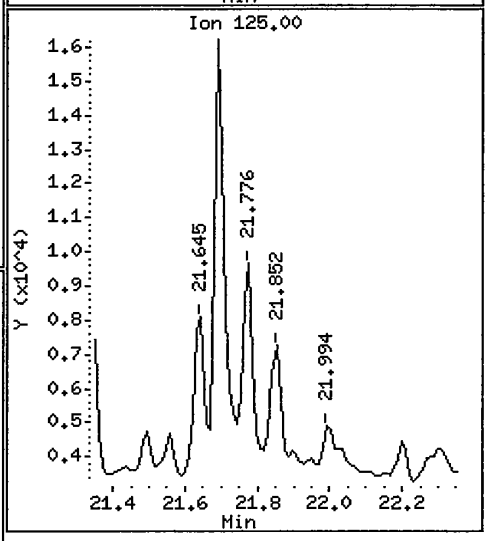
Column phase: Rtx-5MS Column diameter: 0.32

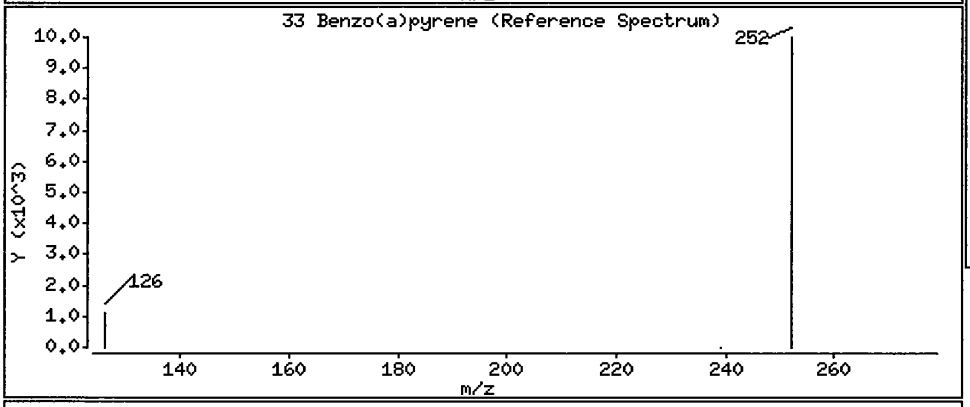
33 Benzo(a)pyrene Concentration: 4.1 ug/Kg

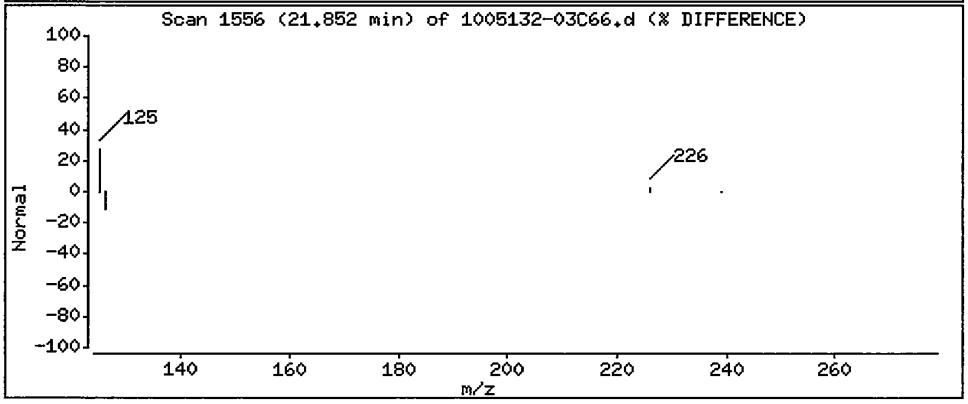












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

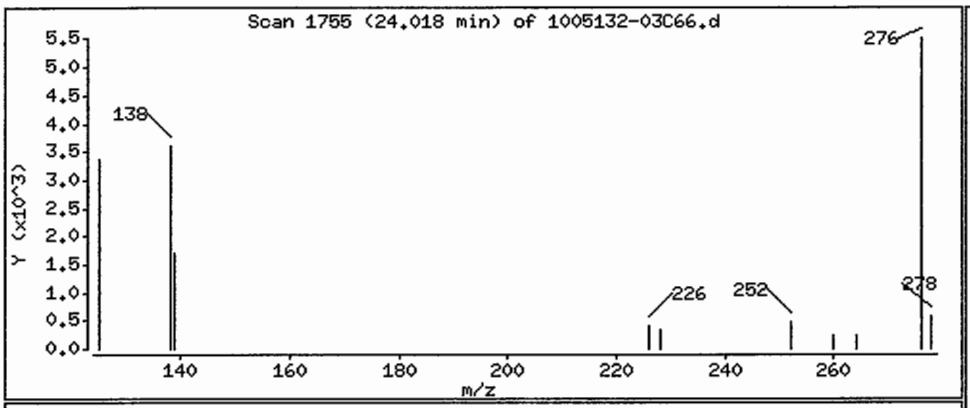
Client ID: SS77-0-1 Instrument: 5972hp66.i

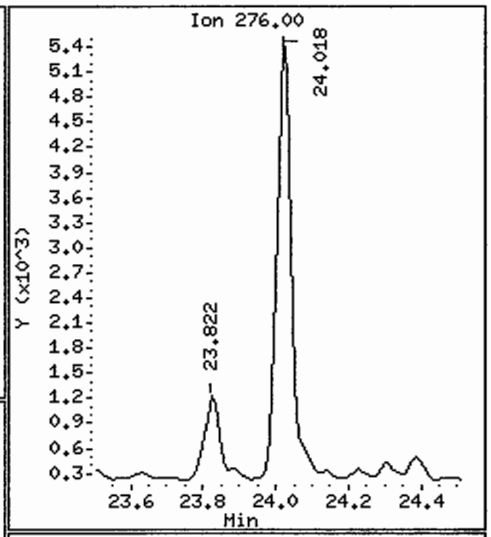
Sample Info: 1005132-03:2730

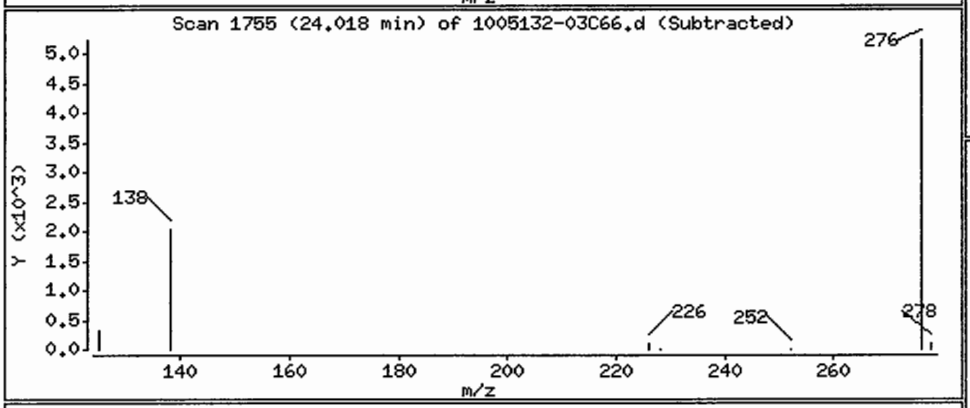
Volume Injected (uL): 2.0 Operator: 2730

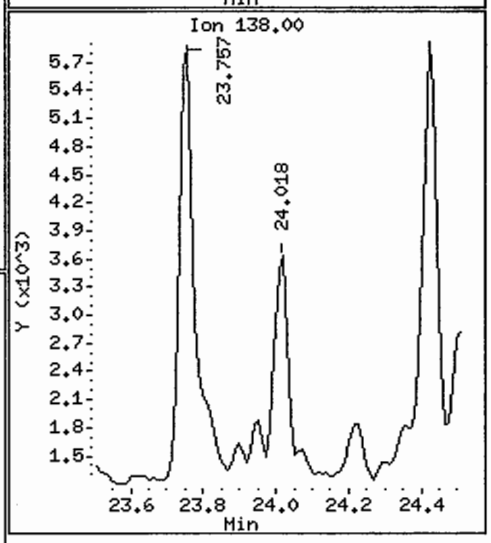
Column phase: Rtx-5MS Column diameter: 0.32

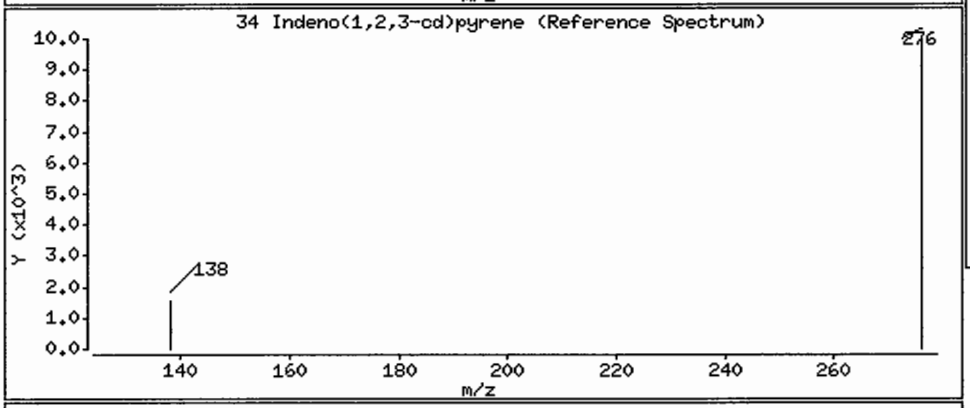
34 Indeno(1,2,3-cd)pyrene Concentration: 3.0 ug/Kg

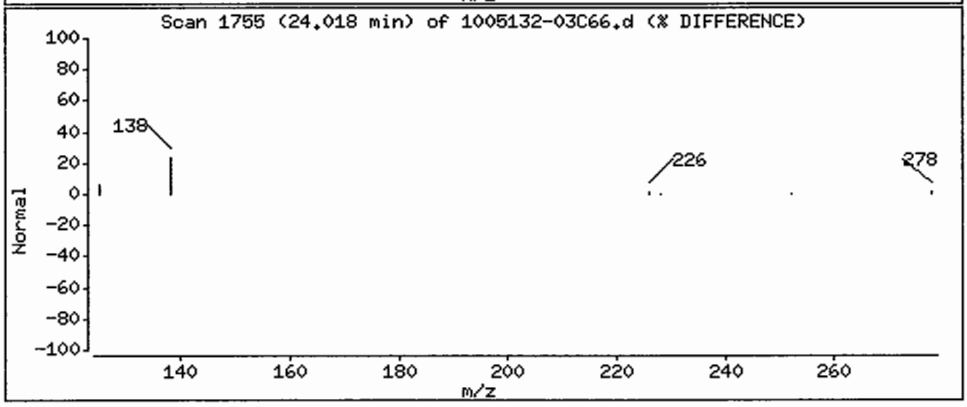












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

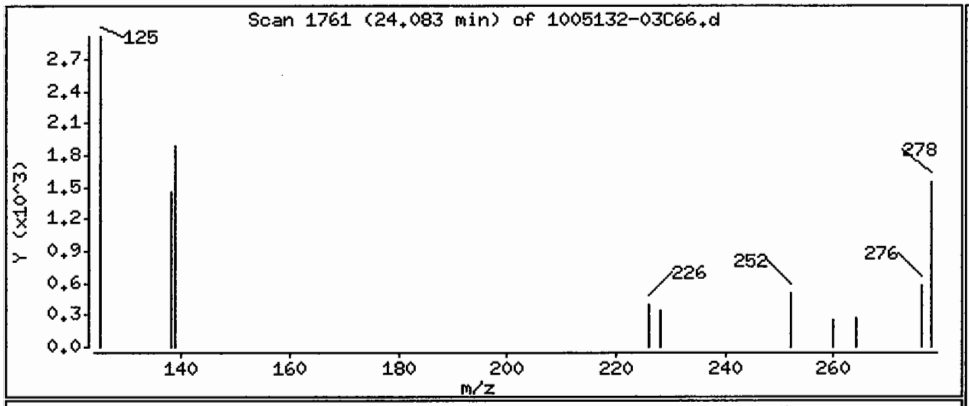
Client ID: SS77-0-1 Instrument: 5972hp66.i

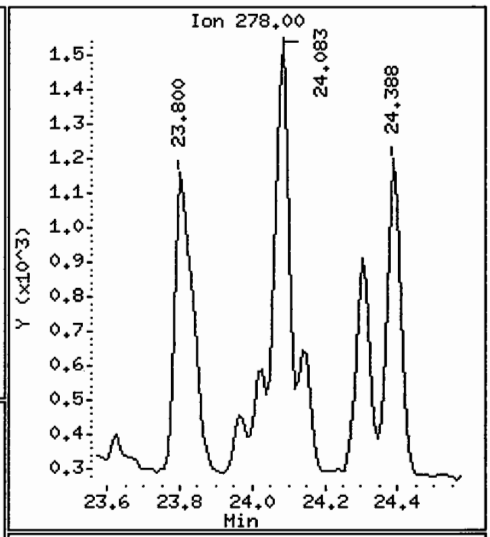
Sample Info: 1005132-03:2730

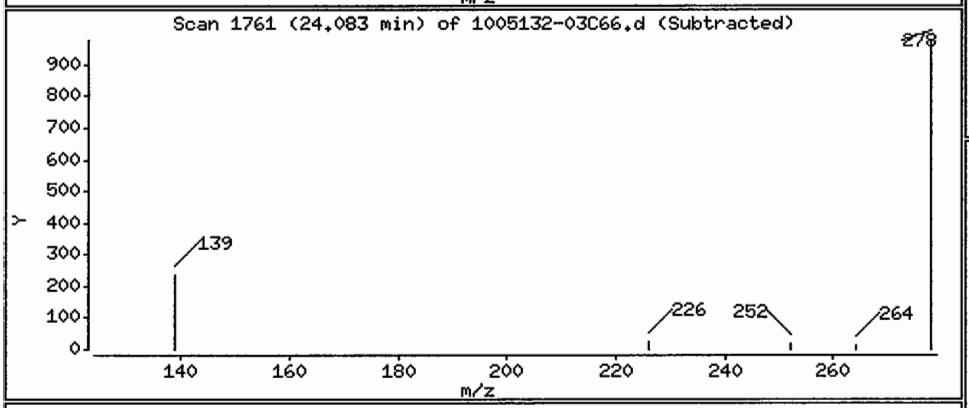
Volume Injected (uL): 2.0 Operator: 2730

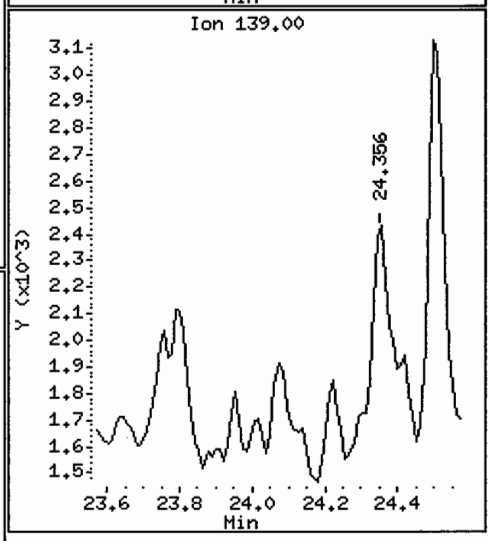
Column phase: Rtx-5MS Column diameter: 0.32

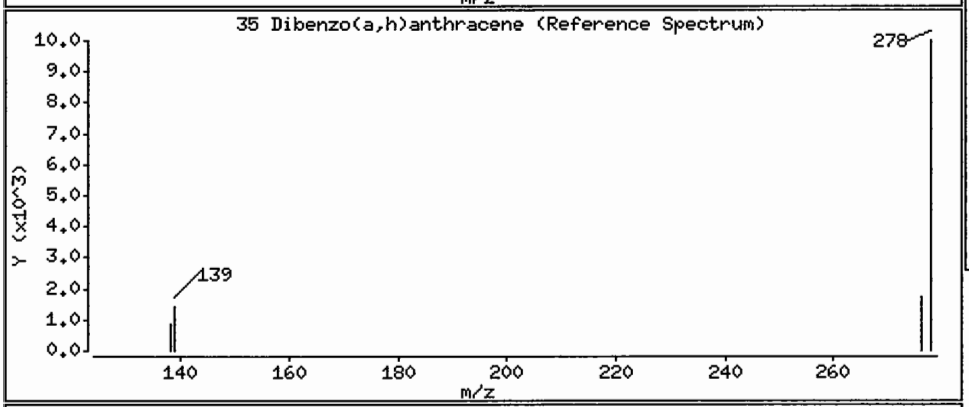
35 Dibenzo(a,h)anthracene Concentration: 0.72 ug/Kg

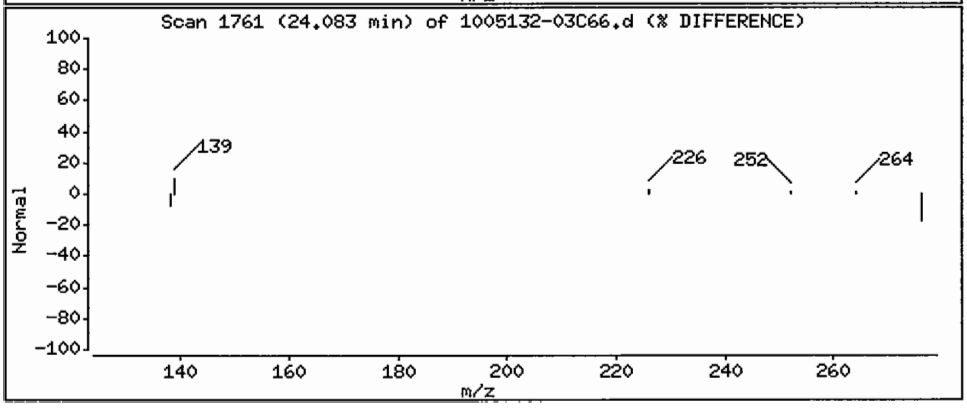












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d

Date : 26-MAY-2010 14:43

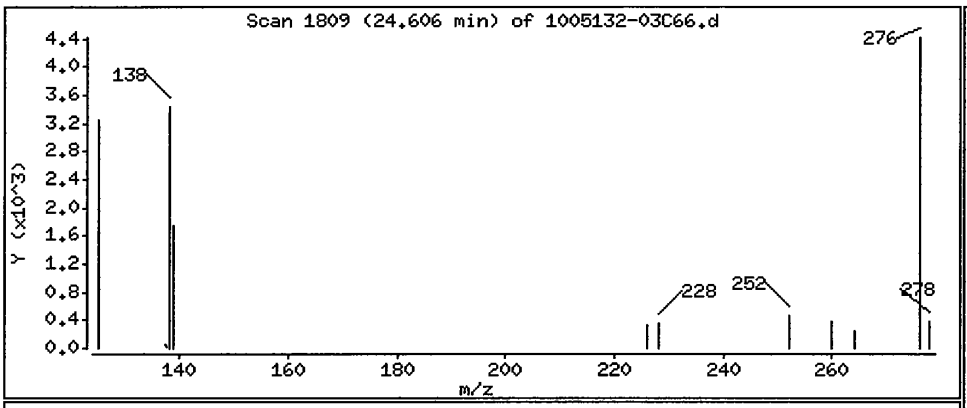
Client ID: SS77-0-1 Instrument: 5972hp66.i

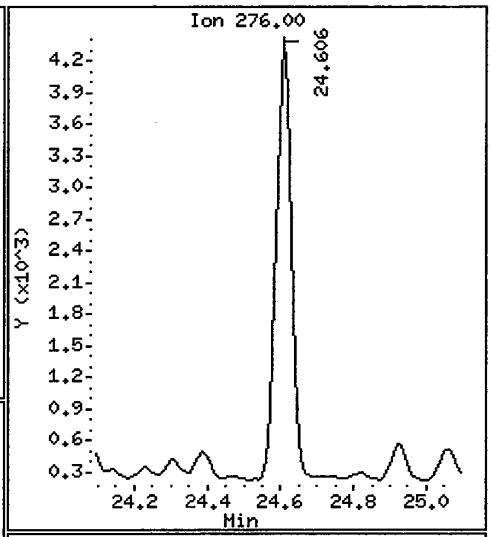
Sample Info: 1005132-03:2730

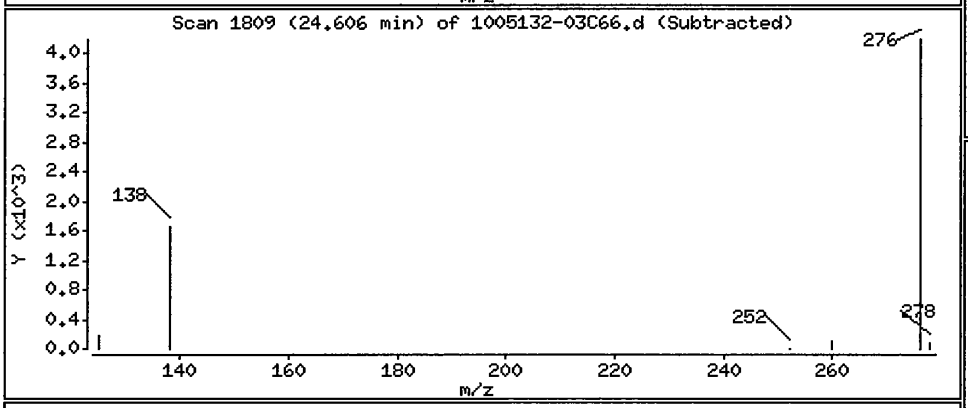
Volume Injected (uL): 2.0 Operator: 2730

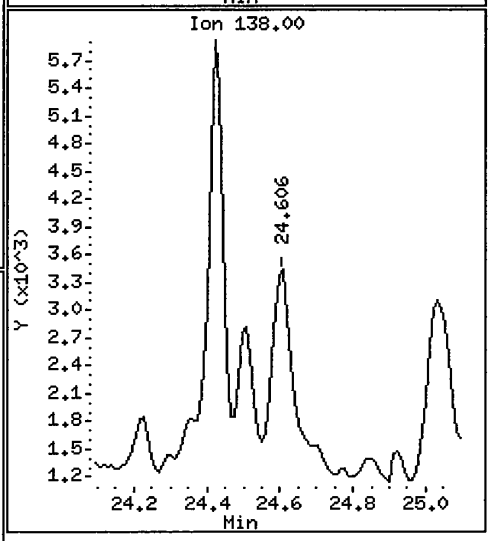
Column phase: Rtx-5MS Column diameter: 0.32

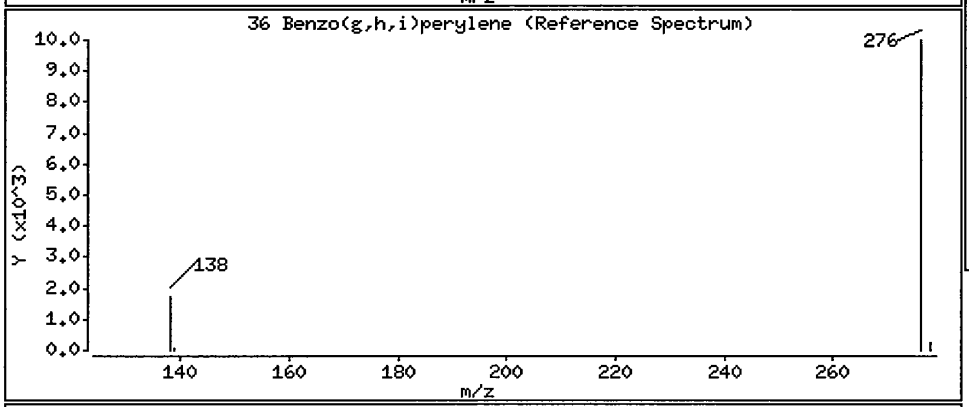
36 Benzo(g,h,i)perylene Concentration: 2.3 ug/Kg

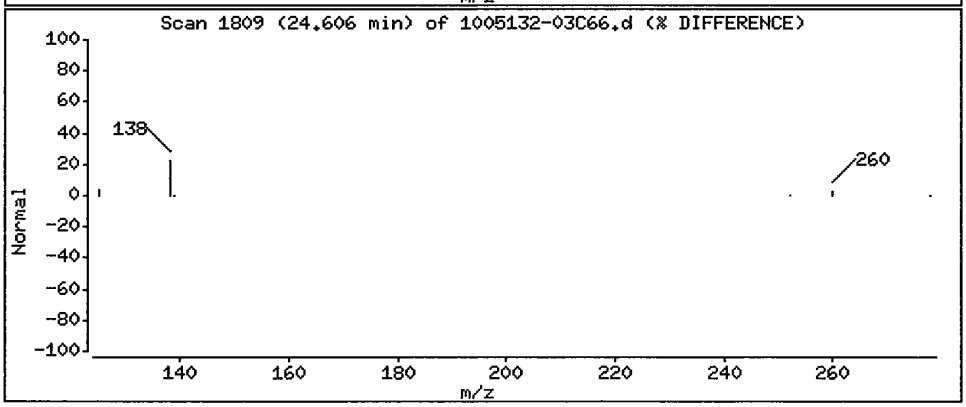






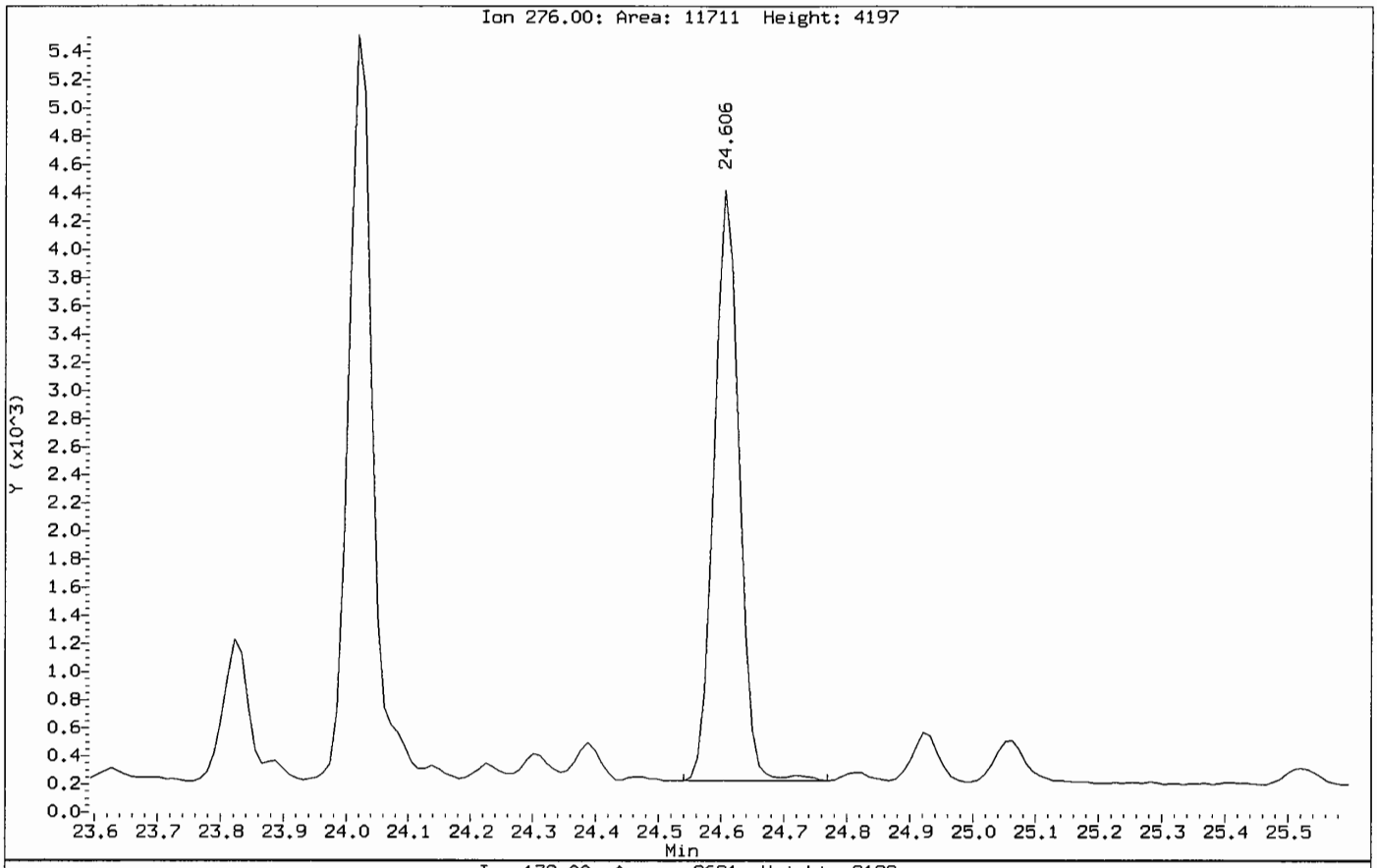


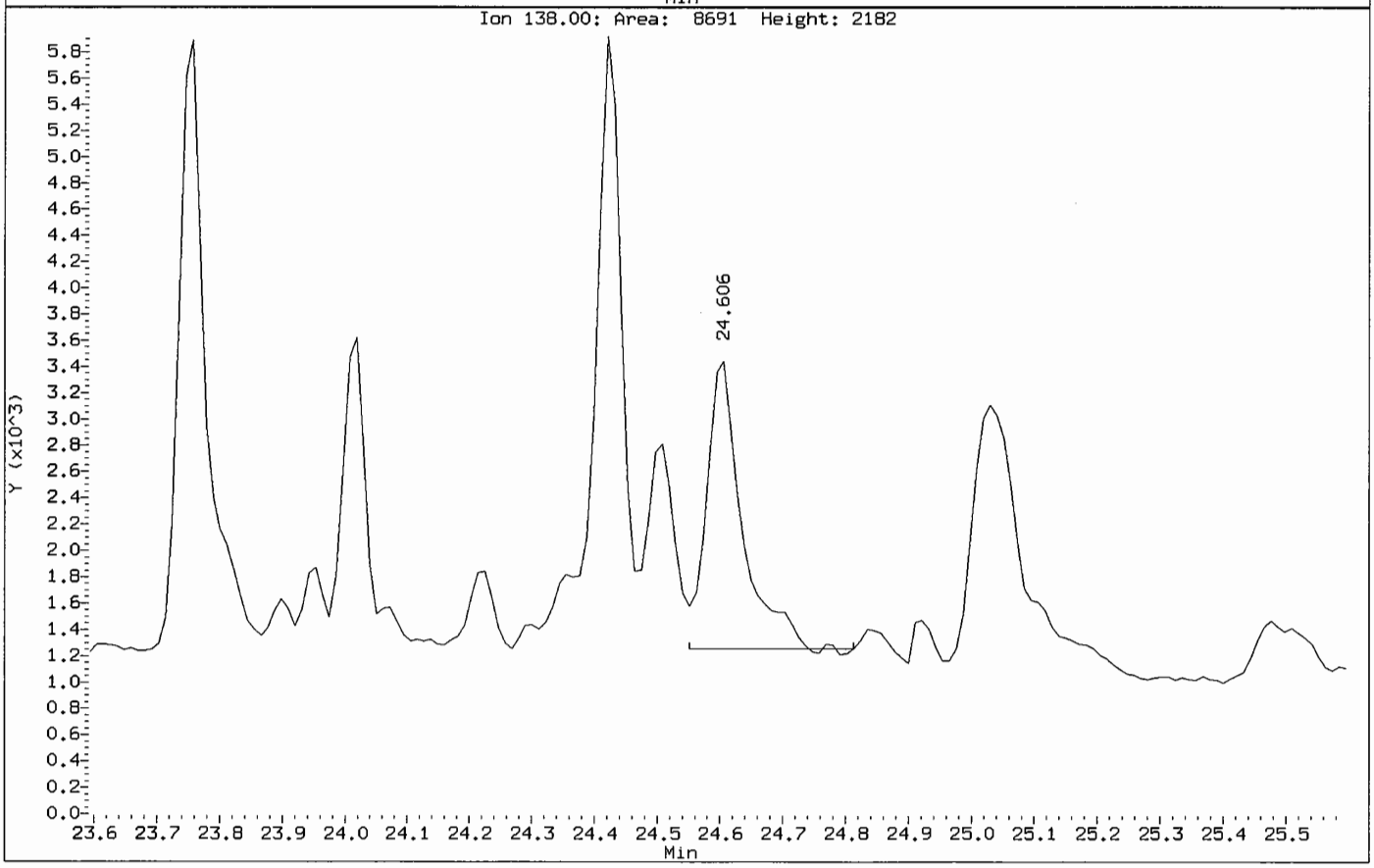




Data File: /chem/5972hp66.i/DS100525C66.b/1005132-03C66.d
Injection Date: 26-MAY-2010 14:43
Instrument: 5972hp66.i
Client Sample ID: SS77-0-1

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SS77-0-1RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-03JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 23 decanted: (Y/N) N Date Extracted: 05/20/10

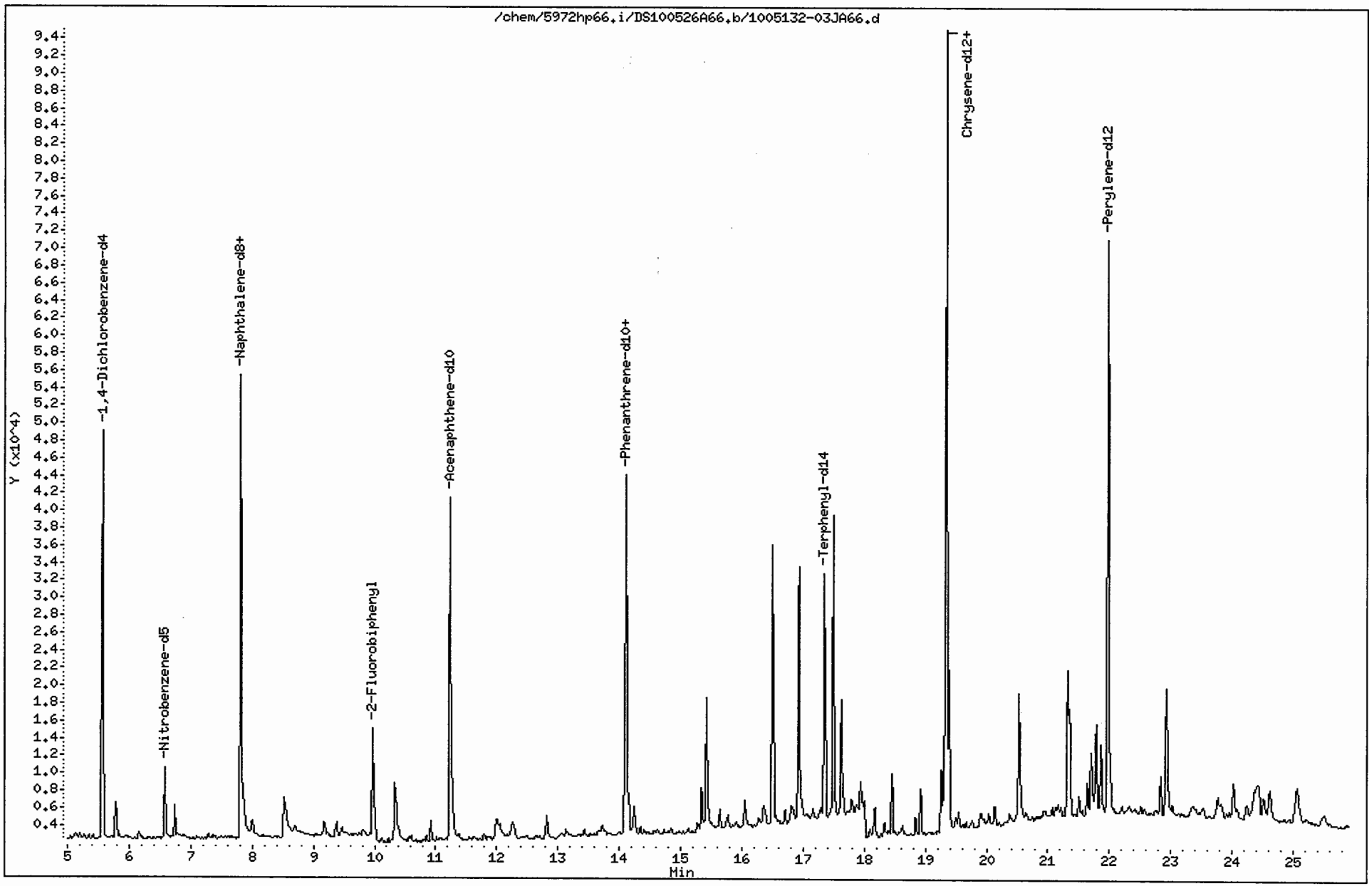
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.9	J
91-57-6	2-Methylnaphthalene	1.4	J
208-96-8	Acenaphthylene	2.1	J
83-32-9	Acenaphthene	11	U
86-73-7	Fluorene	11	U
85-01-8	Phenanthrene	2.8	J
120-12-7	Anthracene	2.6	J
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	4.7	J
218-01-9	Chrysene	7.5	J
205-99-2	Benzo(b)fluoranthene	8.6	J
207-08-9	Benzo(k)fluoranthene	6.1	J
50-32-8	Benzo(a)pyrene	4.1	J
193-39-5	Indeno(1,2,3-cd)pyrene	3.0	J
53-70-3	Dibenzo(a,h)anthracene	0.68	J
191-24-2	Benzo(g,h,i)perylene	2.2	J

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Date : 26-MAY-2010 19:43
Client ID: SS77-0-1RE
Instrument: 5972hp66.i
Sample Info: 1005132-03:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Report Date: 03-Jun-2010 16:30

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Lab Smp Id: 1005132-03 Client Smp ID: SS77-0-1RE
Inj Date : 26-MAY-2010 19:43
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-03:2730
Misc Info : SS77-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 15:45 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	23.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.570	5.558	(1.000)	25621	2.00000	(a)
*	2 Naphthalene-d8	136	7.812	7.813	(1.000)	72806	2.00000	(a)
*	3 Acenaphthene-d10	164	11.230	11.231	(1.000)	35160	2.00000	(a)
*	4 Phenanthrene-d10	188	14.114	14.099	(1.000)	67271	2.00000	(a)
*	5 Chrysene-d12	240	19.344	19.336	(1.000)	119685	2.00000	(a)
*	6 Perylene-d12	264	21.972	21.973	(1.000)	88100	2.00000	(a)
$	9 Nitrobenzene-d5	82	6.574	6.575	(0.841)	9564	0.59034	13
$	10 2-Fluorobiphenyl	172	9.976	9.964	(0.888)	21565	0.58776	13
$	12 Terphenyl-d14	244	17.347	17.346	(0.897)	33611	0.77290	17
	13 Naphthalene	128	7.851	7.839	(1.005)	4004	0.08891	1.9(aM)
	15 2-Methylnaphthalene	141	9.168	9.169	(0.816)	1631	0.06479	1.4(a)
	17 Acenaphthylene	152	10.917	10.918	(0.972)	3726	0.09487	2.1(aM)
	18 Acenaphthene	154	Compound Not Detected.					

2 2 6/3/10 NT

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Report Date: 03-Jun-2010 16:30

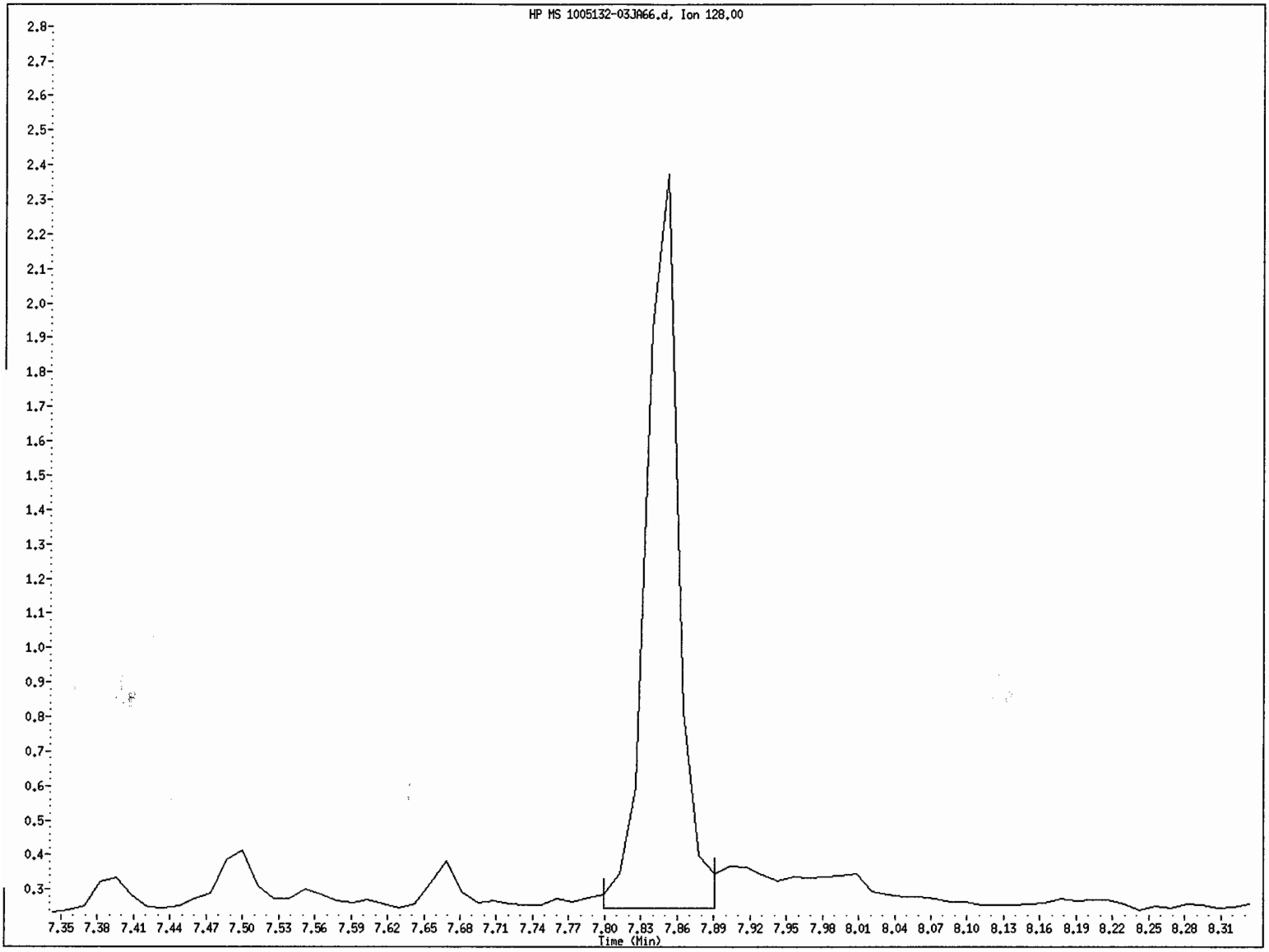
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.153	14.152	(1.003)	5416	0.12911	2.8(a)
26 Anthracene	178	14.244	14.230	(1.009)	4507	0.11945	2.6(a)
27 Fluoranthene	202	16.500	16.498	(0.853)	41565	0.52374	11
28 Pyrene	202	16.930	16.929	(0.875)	42349	0.49000	11
29 Benzo(a)anthracene	228	19.309	19.310	(0.998)	14146	0.21743	4.7(a)
30 Chrysene	228	19.388	19.388	(1.002)	24562	0.34855	7.5(a)
31 Benzo(b)fluoranthene	252	21.318	21.319	(0.970)	22993	0.39574	8.6(a)
32 Benzo(k)fluoranthene	252	21.351	21.352	(0.972)	17747	0.28384	6.1(a)
33 Benzo(a)pyrene	252	21.863	21.864	(0.995)	9863	0.18837	4.1(a)
34 Indeno(1,2,3-cd)pyrene	276	24.029	24.030	(1.094)	6380	0.13812	3.0(a)
35 Dibenzo(a,h)anthracene	278	24.094	24.084	(1.097)	1441	0.03154	0.68(aM)
36 Benzo(g,h,i)perylene	276	24.616	24.607	(1.120)	5259	0.10272	2.2(aM)

6/3/10

QC Flag Legend

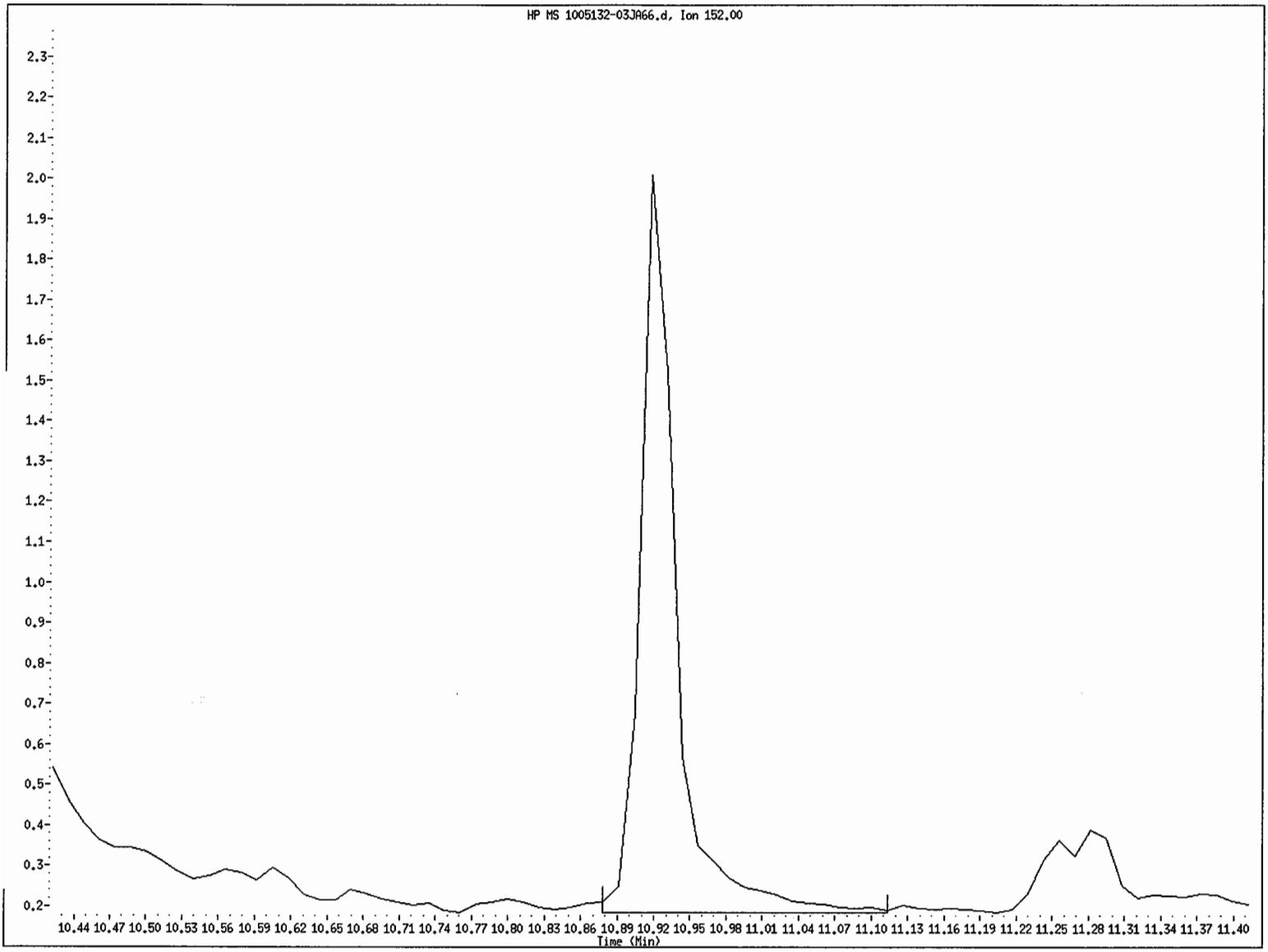
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Naphthalene CAS Number 91-20-3 Area = 4004 Manually integrated



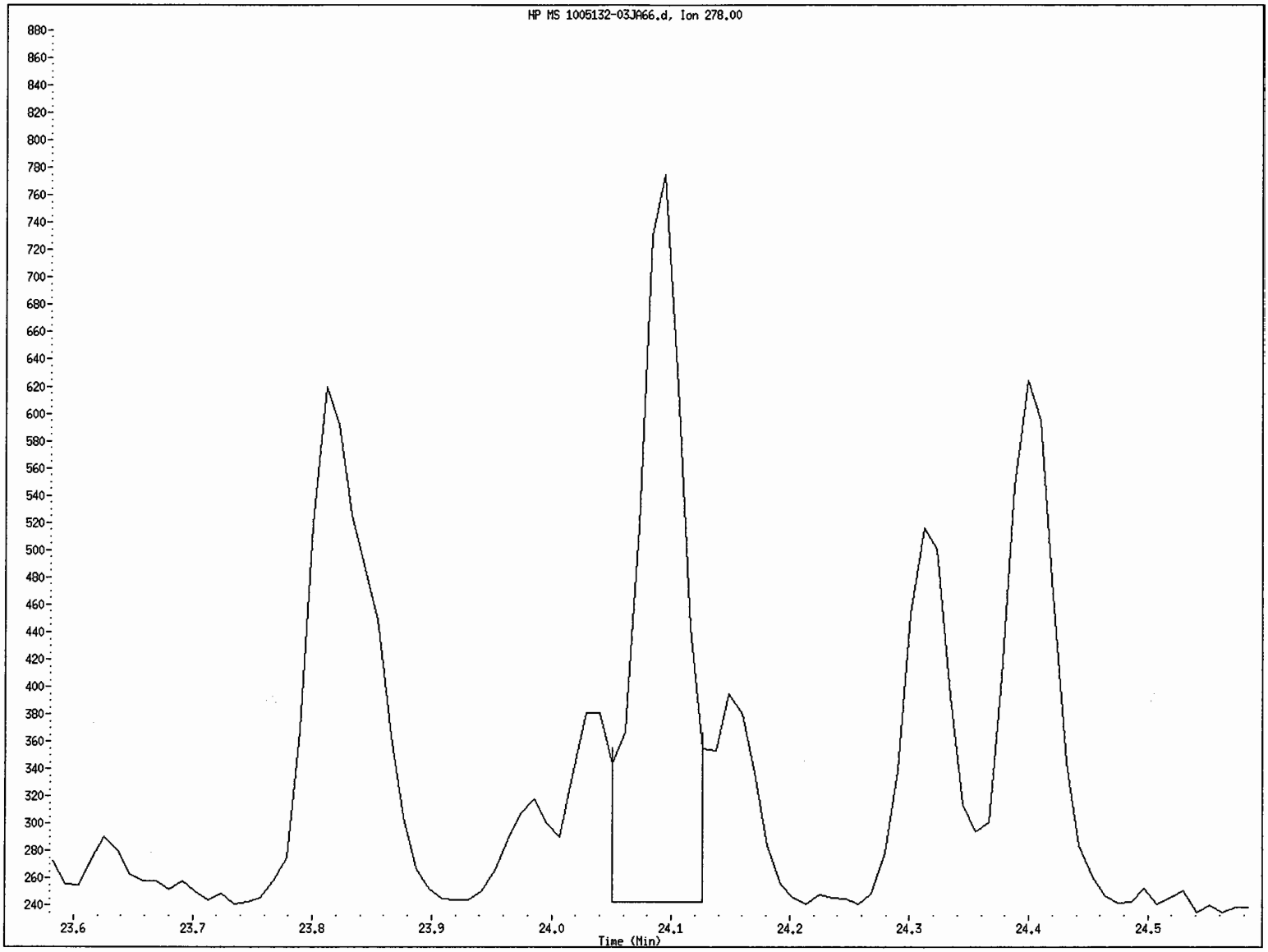
File name: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Client ID: SS77-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 19:43
Retention Time: 7.85
Operator ID: 2730

Acenaphthylene CAS Number 208-96-8 Area = 3726 Manually integrated



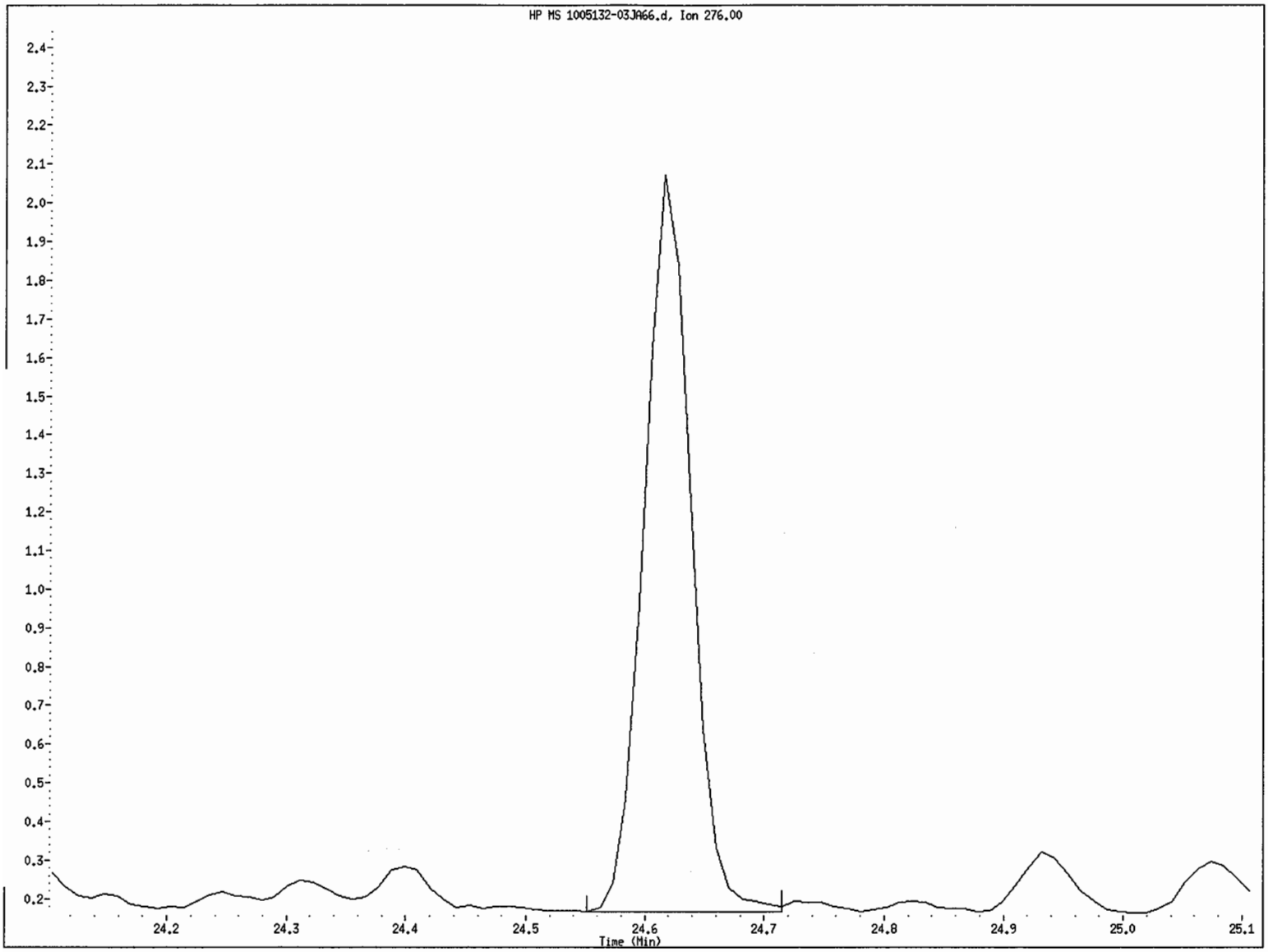
File name: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Client ID: SS77-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 19:43
Retention Time: 10.92
Operator ID: 2730

Dibenzo(a,h)anthracene CAS Number 53-70-3 Area = 1441 Manually integrated



File name: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Client ID: SS77-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 19:43
Retention Time: 24.09
Operator ID: 2730

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 5259 Manually integrated



File name: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Client ID: SS77-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 19:43
Retention Time: 24.62
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

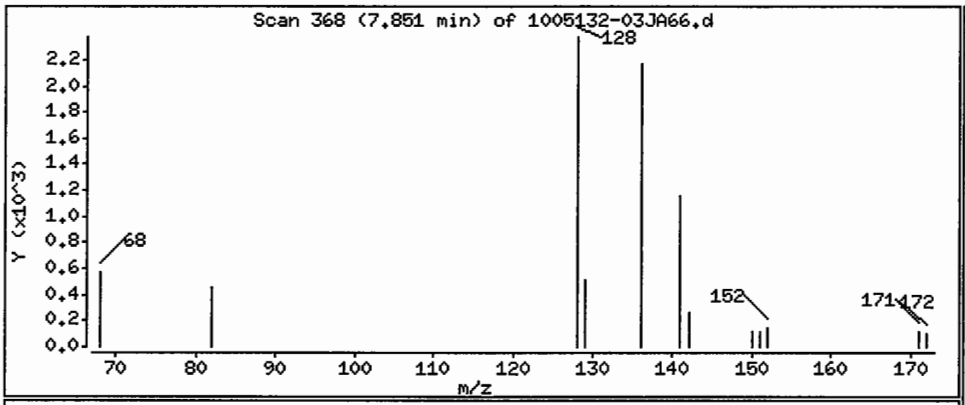
Operator: 2730

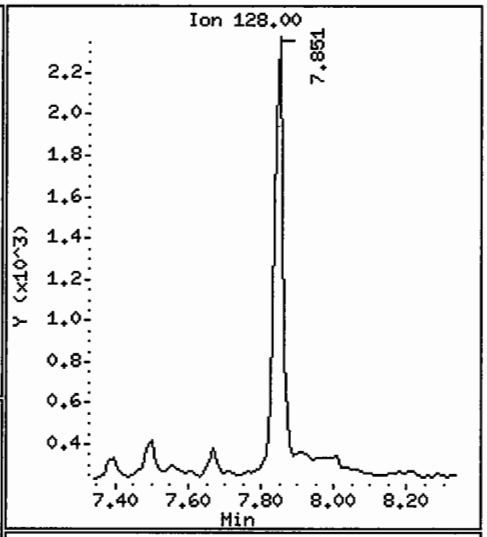
Column phase: Rtx-5MS

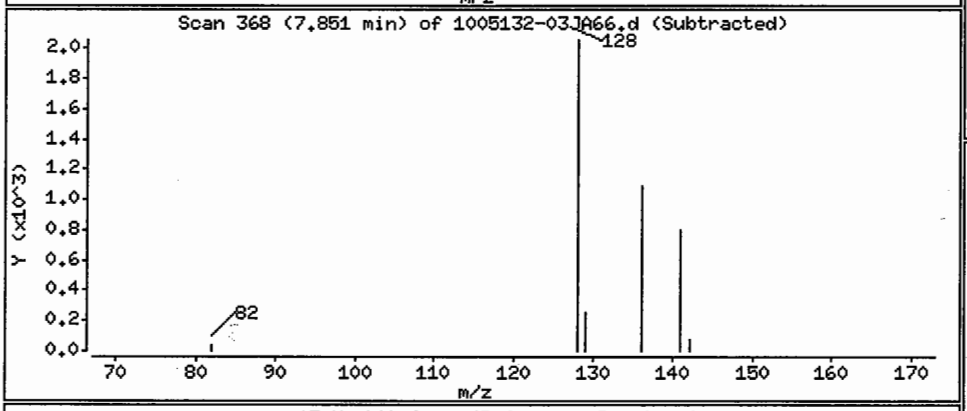
Column diameter: 0.32

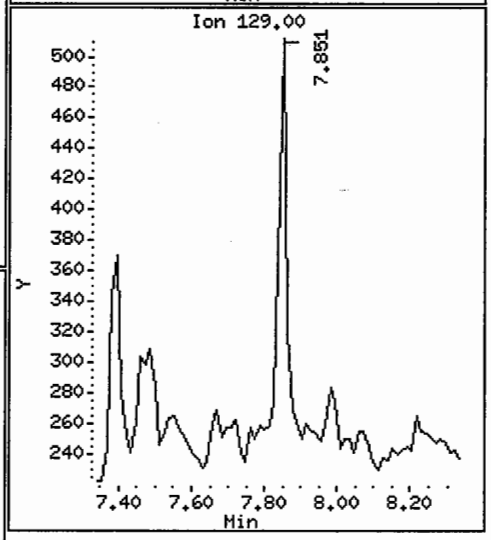
13 Naphthalene

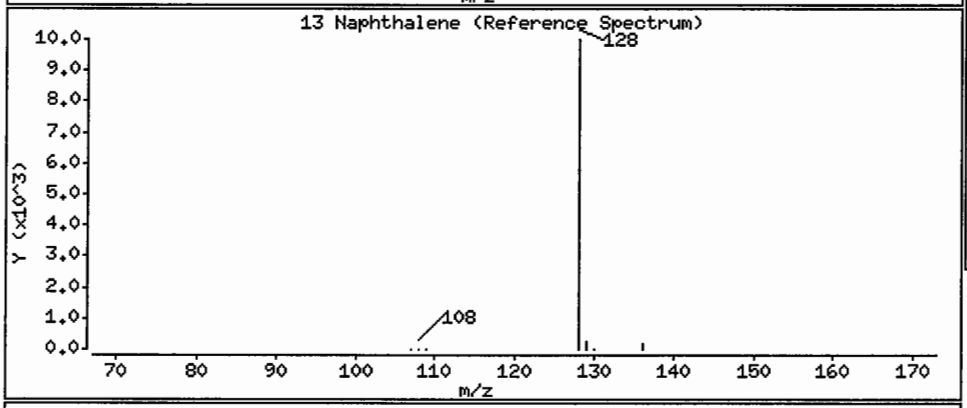
Concentration: 1.9 ug/Kg

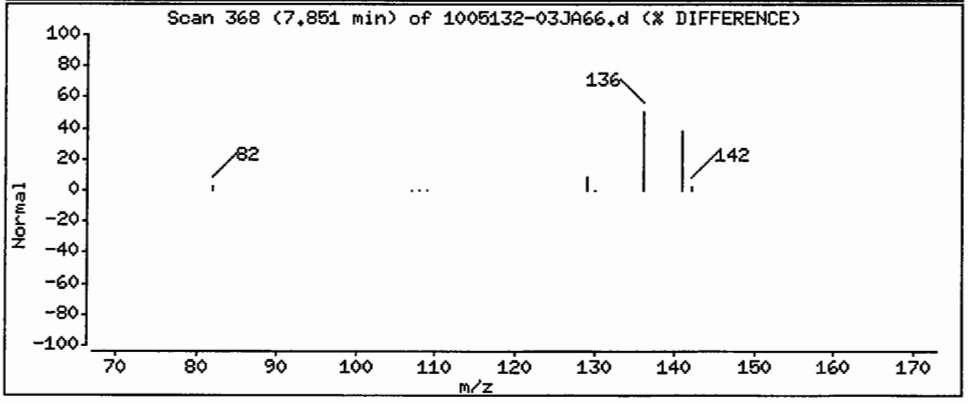












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

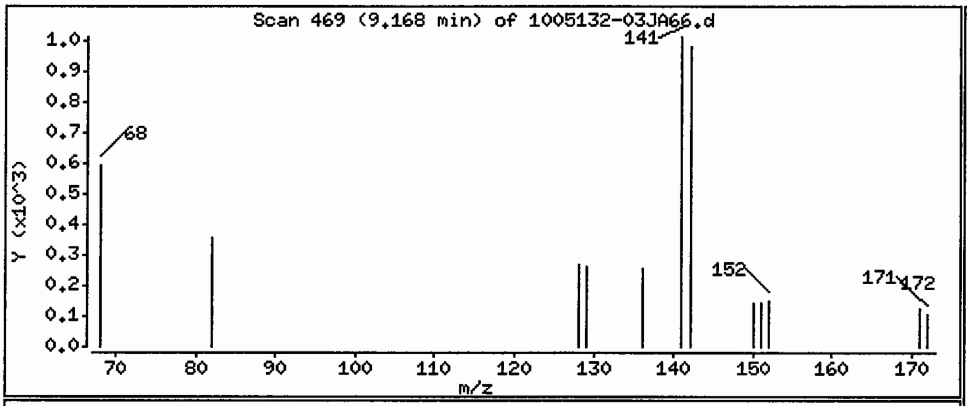
Operator: 2730

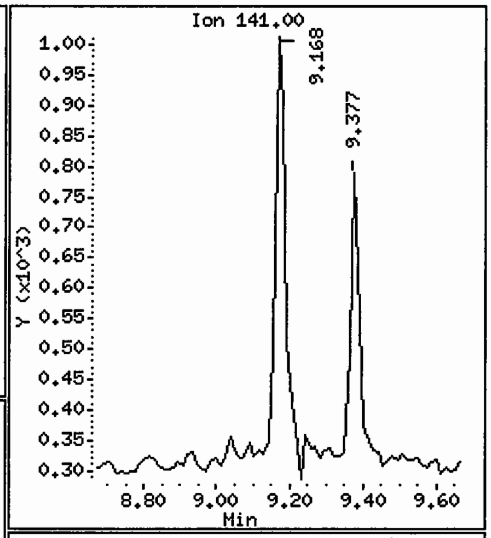
Column phase: Rtx-5MS

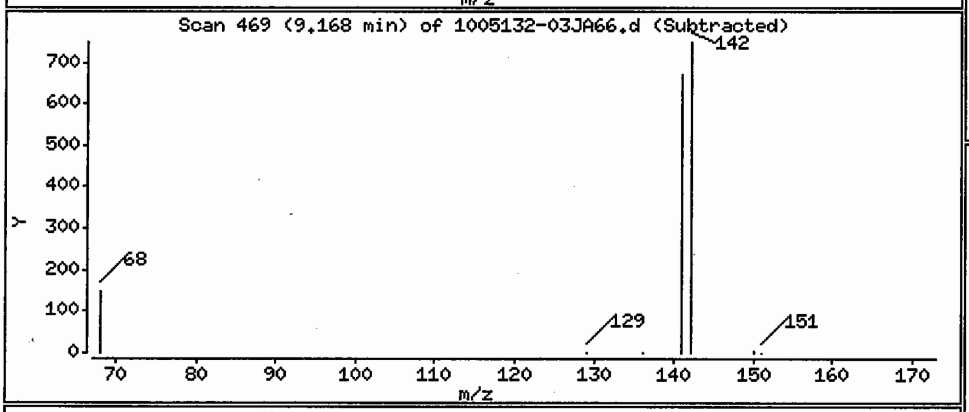
Column diameter: 0.32

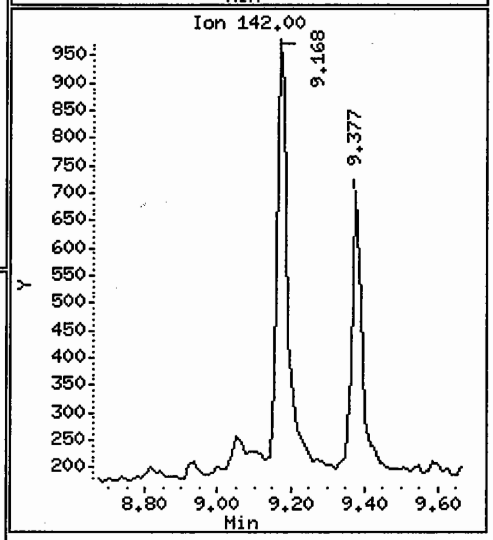
15 2-Methylnaphthalene

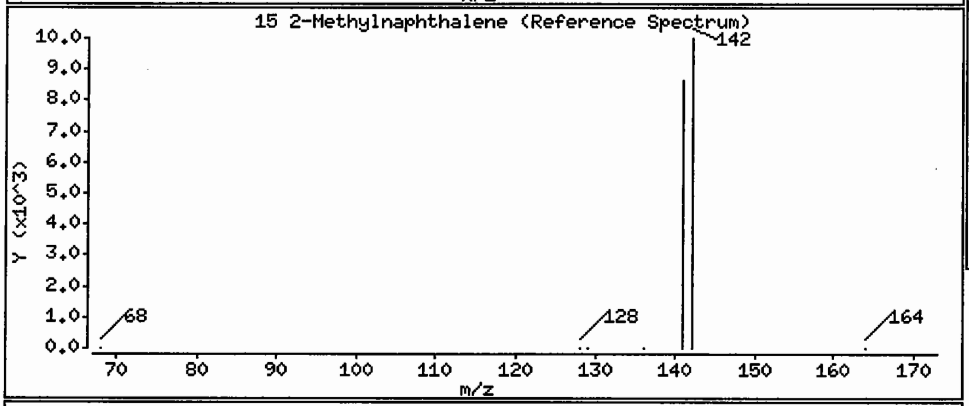
Concentration: 1.4 ug/Kg

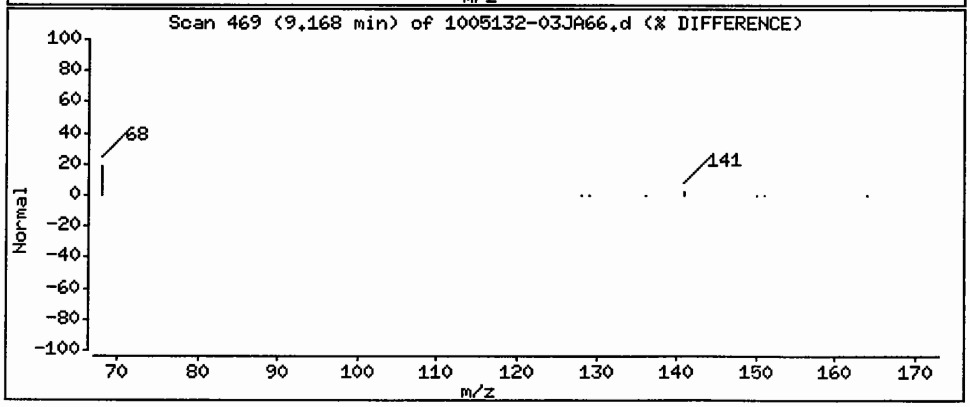












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

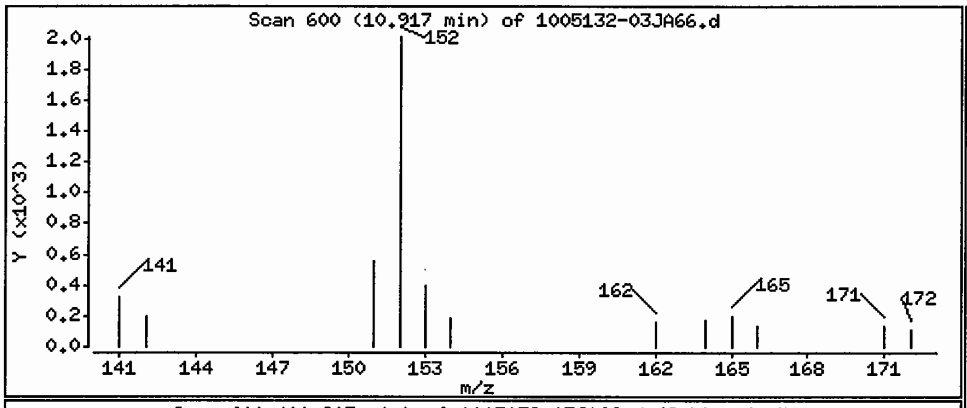
Operator: 2730

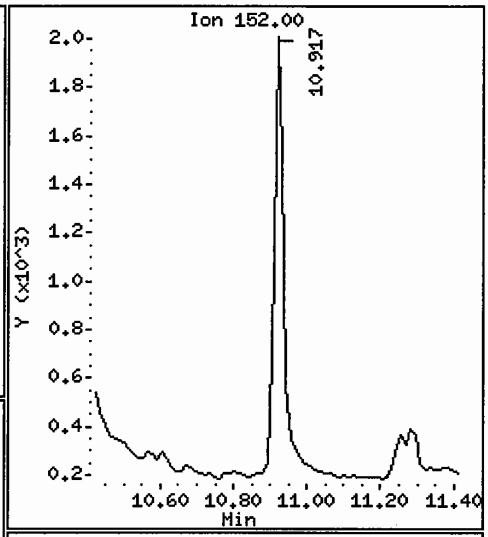
Column phase: Rtx-5MS

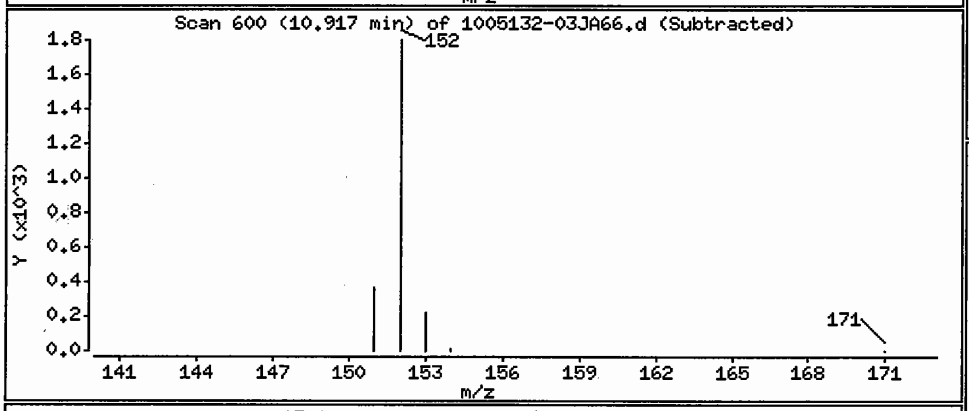
Column diameter: 0.32

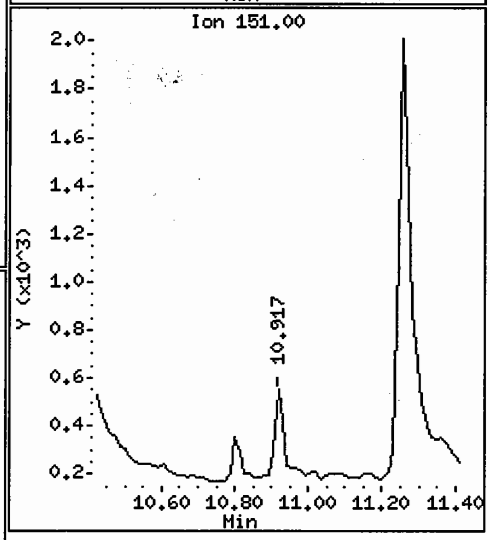
17 Acenaphthylene

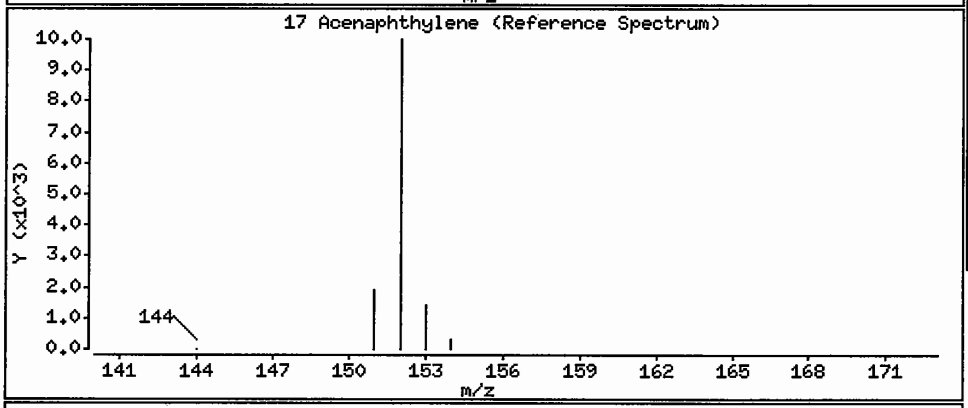
Concentration: 2.1 ug/Kg

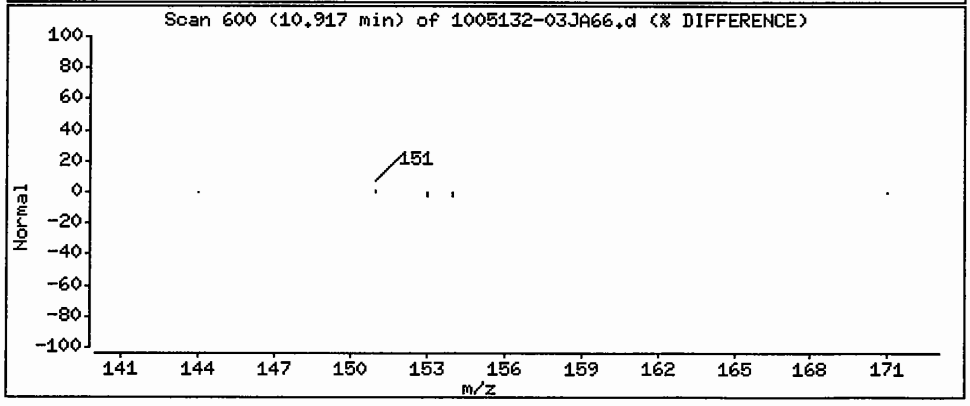












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03;2730

Volume Injected (uL): 2.0

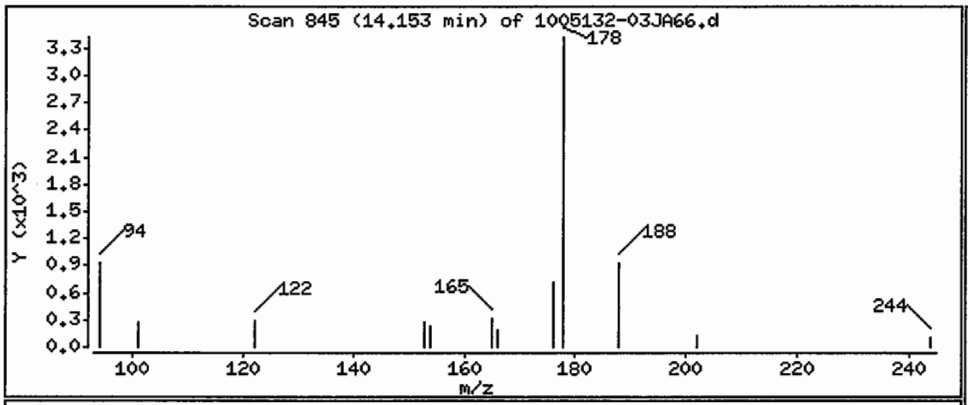
Operator: 2730

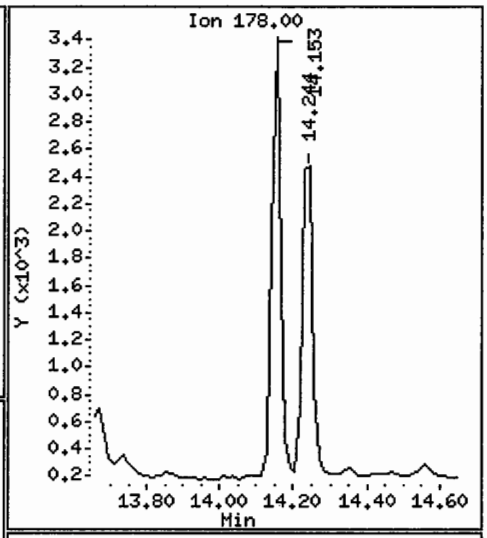
Column phase: Rtx-5MS

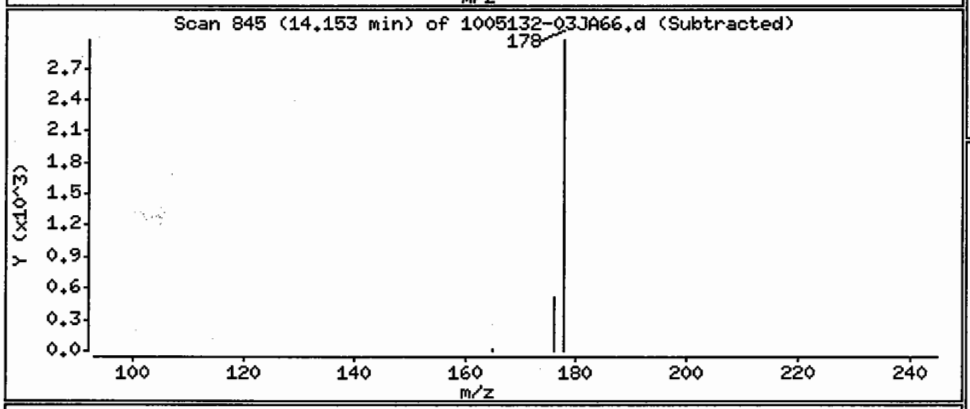
Column diameter: 0.32

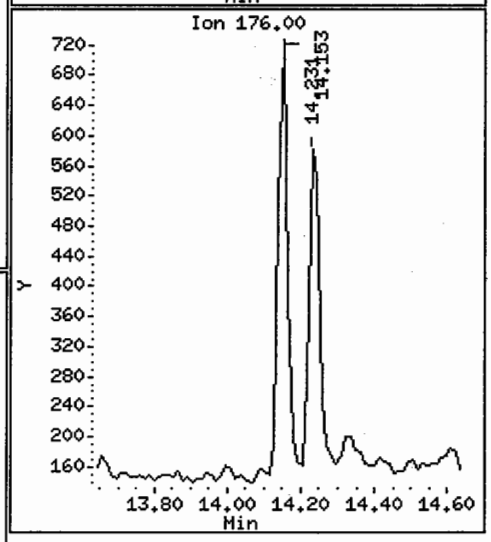
25 Phenanthrene

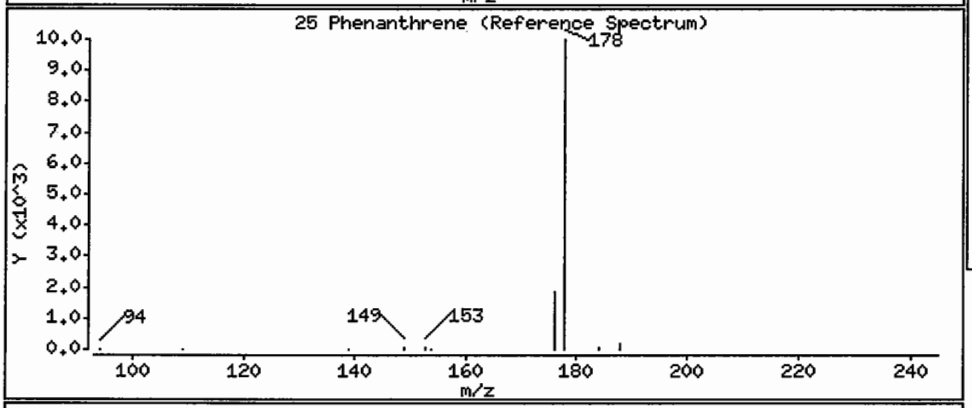
Concentration: 2.8 ug/Kg

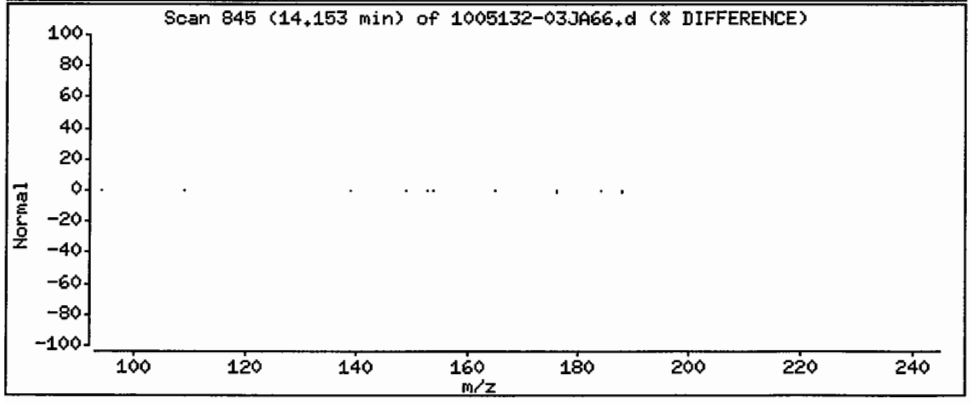












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

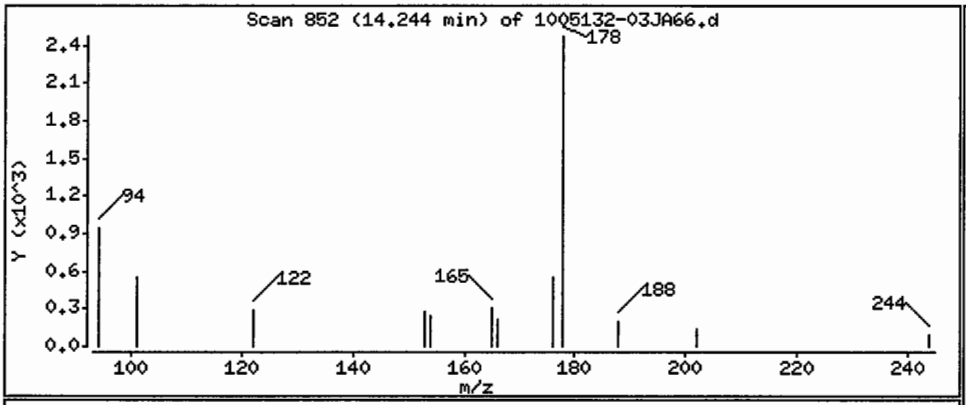
Operator: 2730

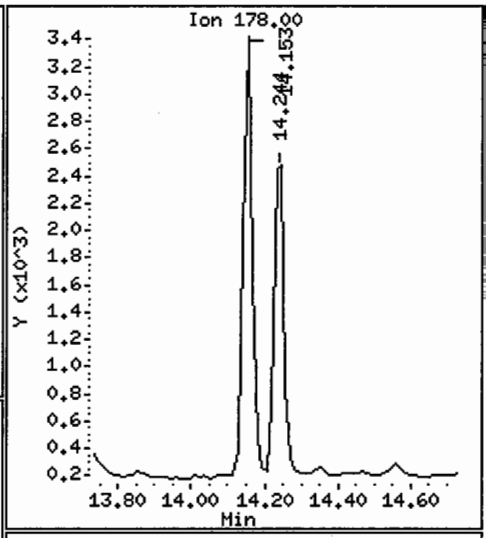
Column phase: Rtx-5MS

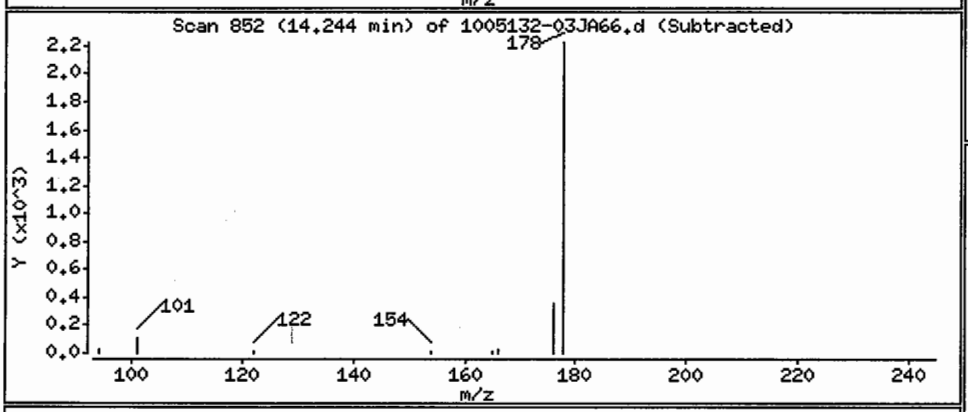
Column diameter: 0.32

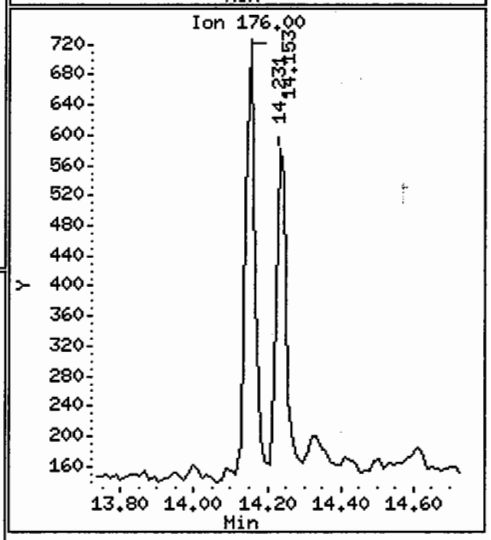
26 Anthracene

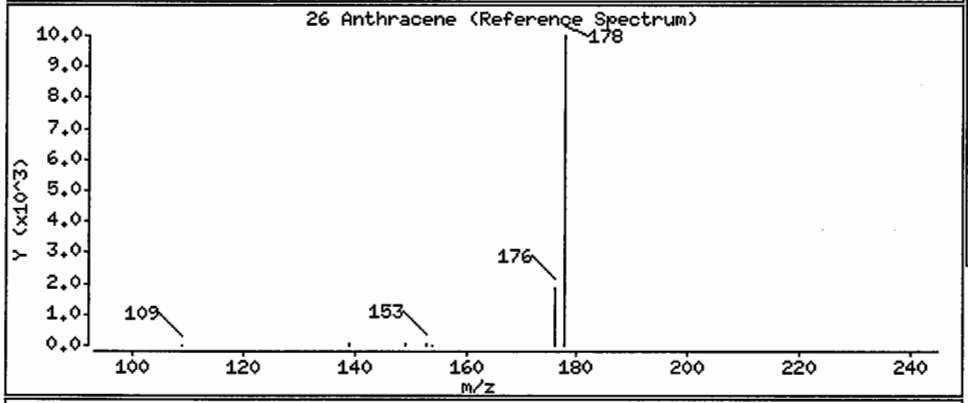
Concentration: 2.6 ug/Kg

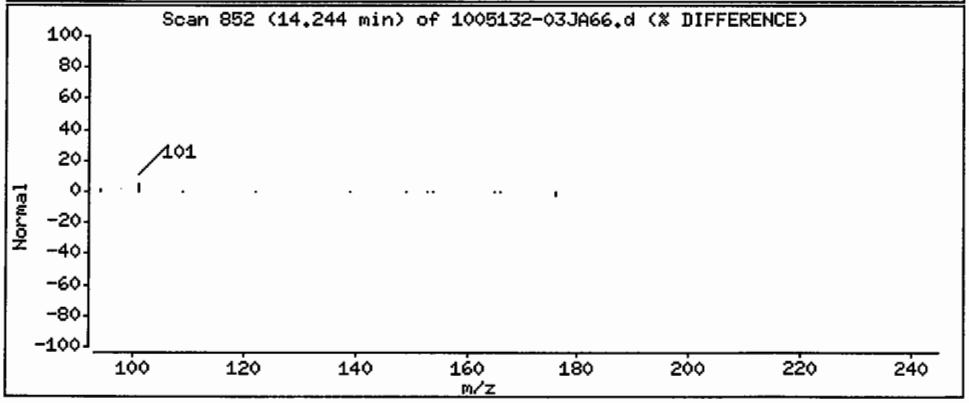












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

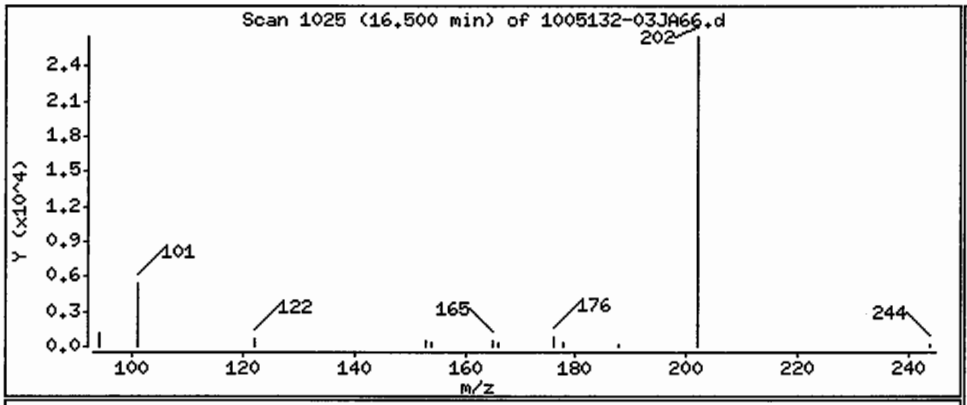
Operator: 2730

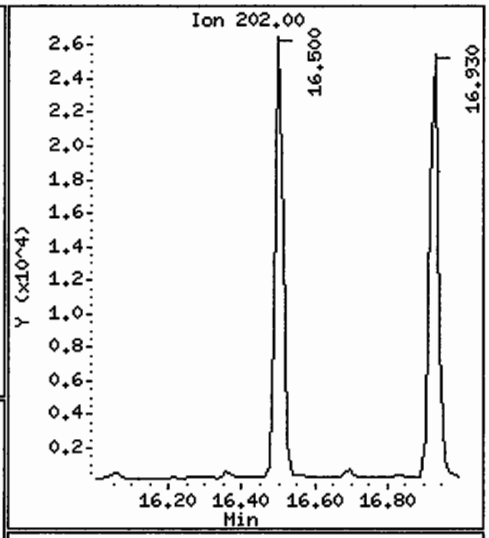
Column phase: Rtx-5MS

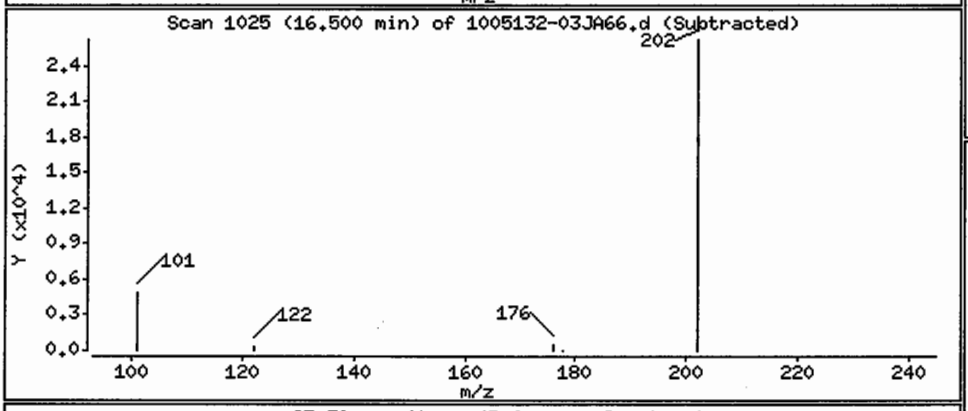
Column diameter: 0.32

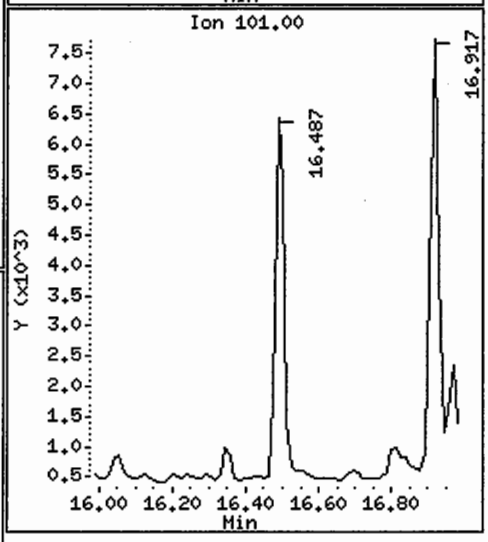
27 Fluoranthene

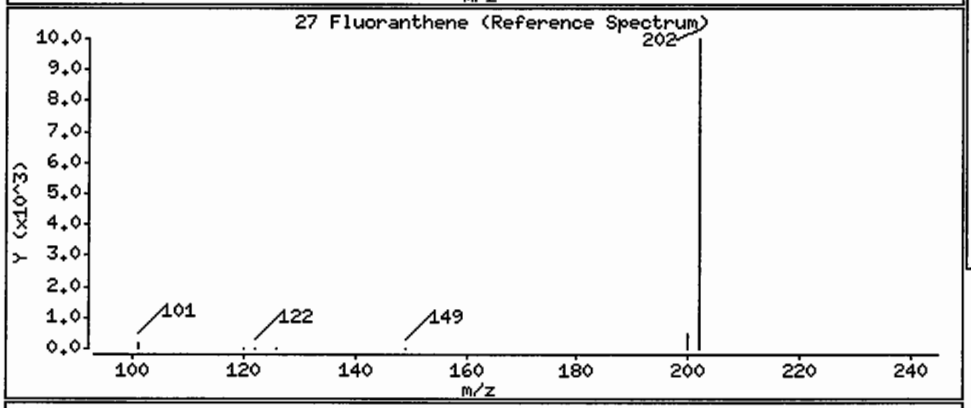
Concentration: 11 ug/Kg

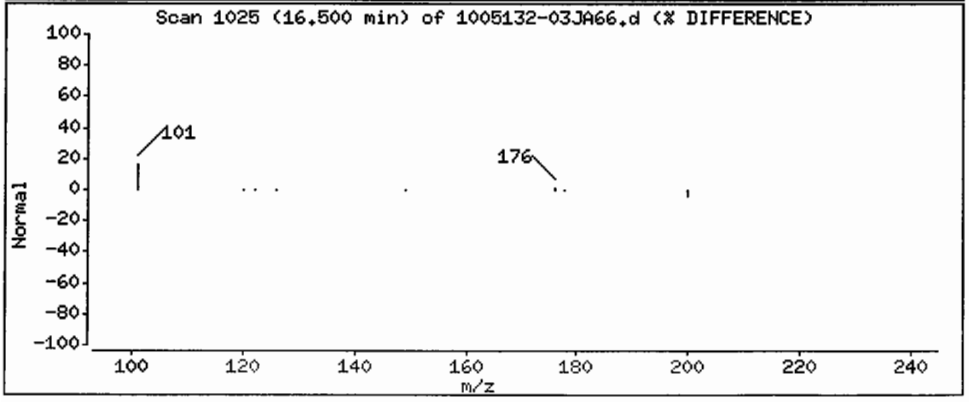












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

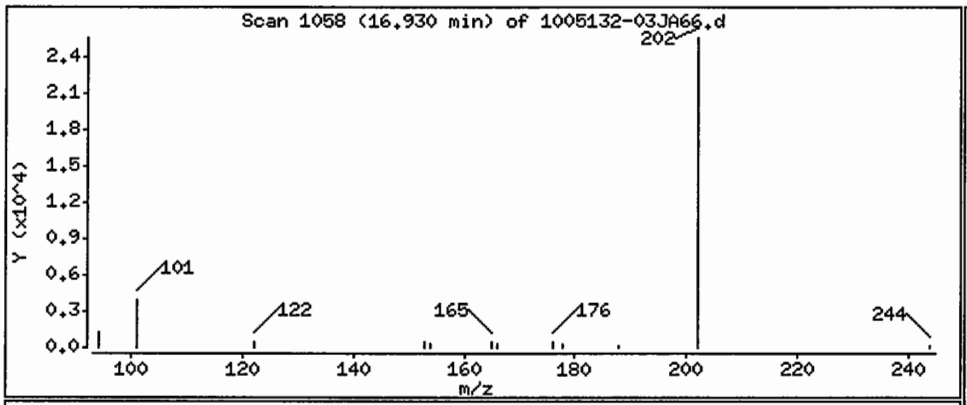
Operator: 2730

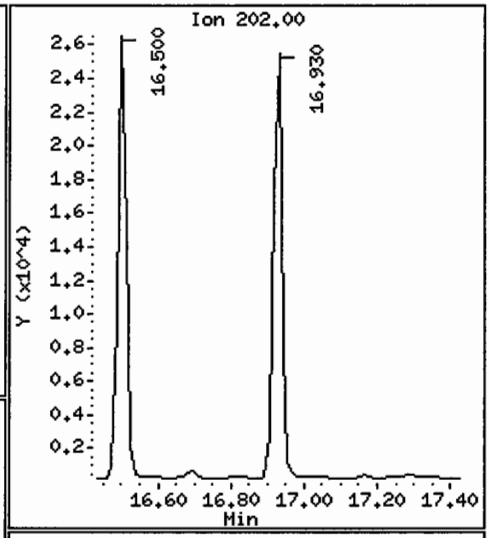
Column phase: Rtx-5MS

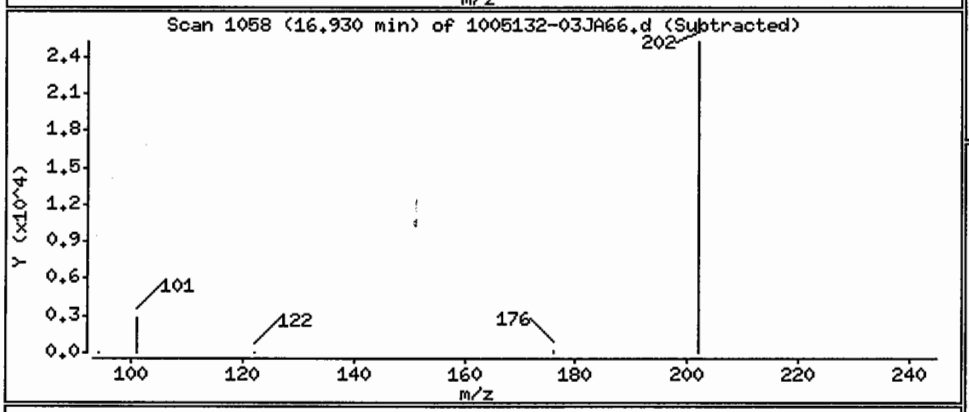
Column diameter: 0.32

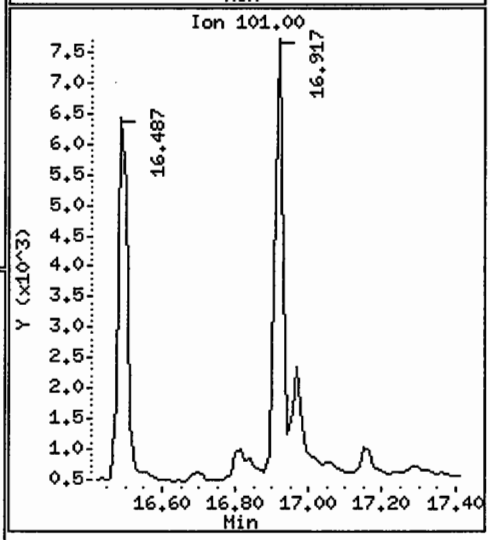
28 Pyrene

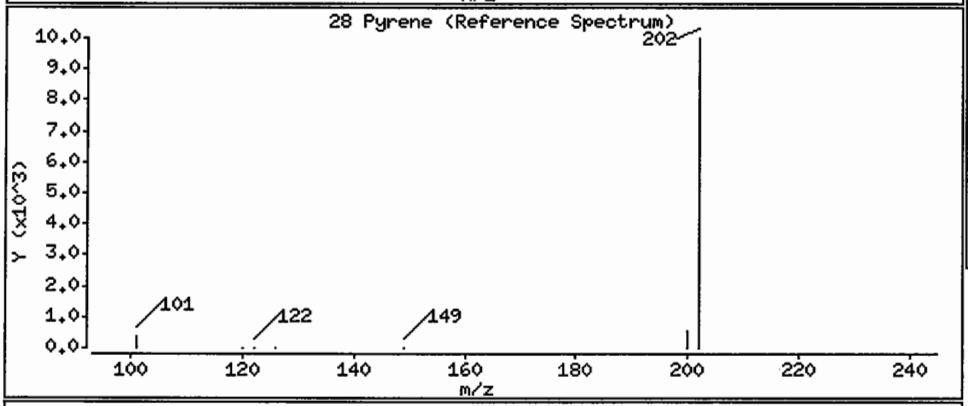
Concentration: 11 ug/Kg

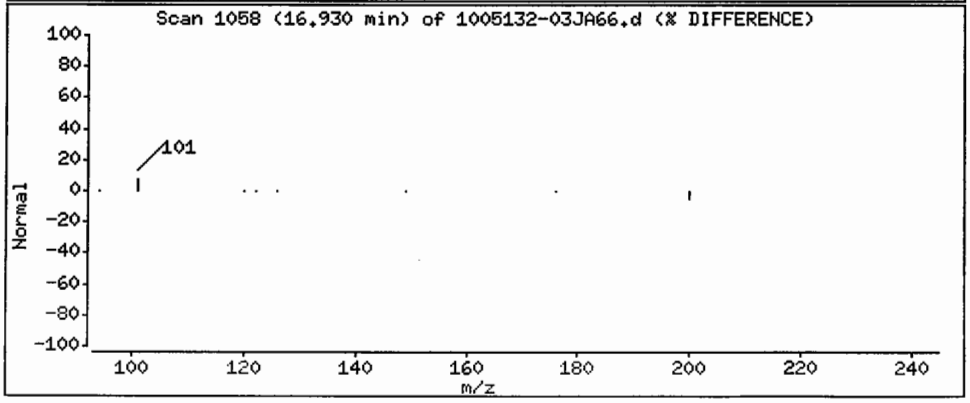












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

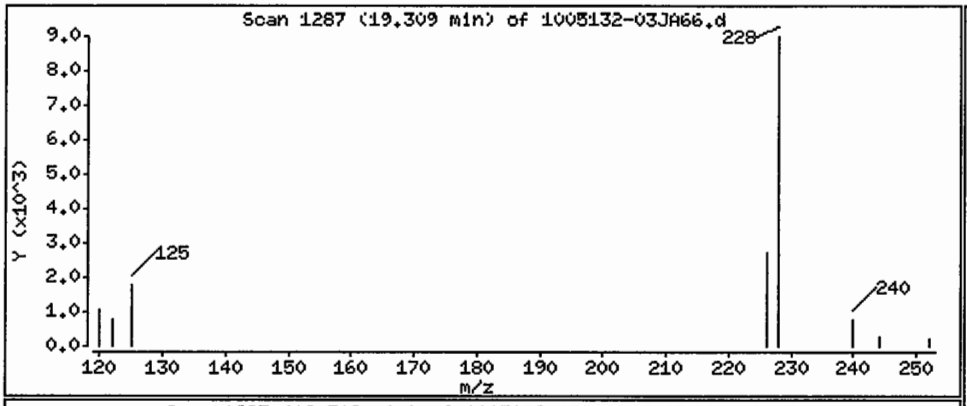
Operator: 2730

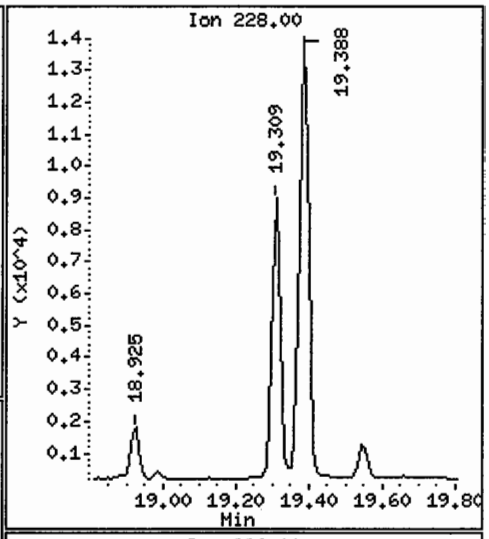
Column phase: Rtx-5MS

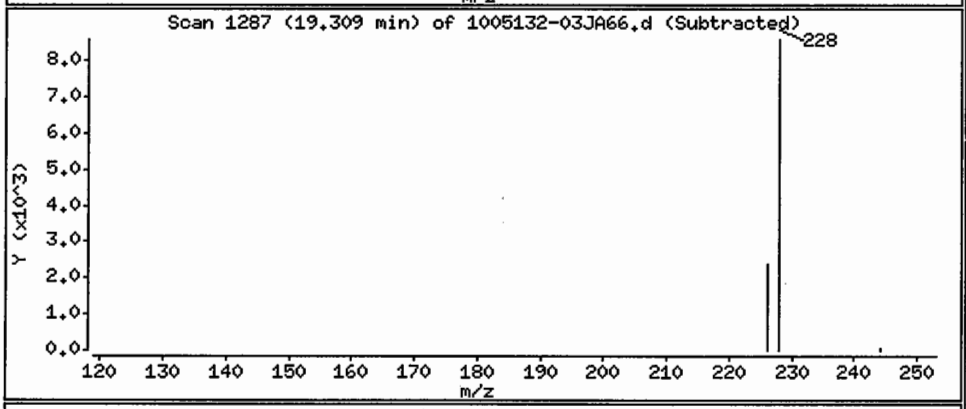
Column diameter: 0.32

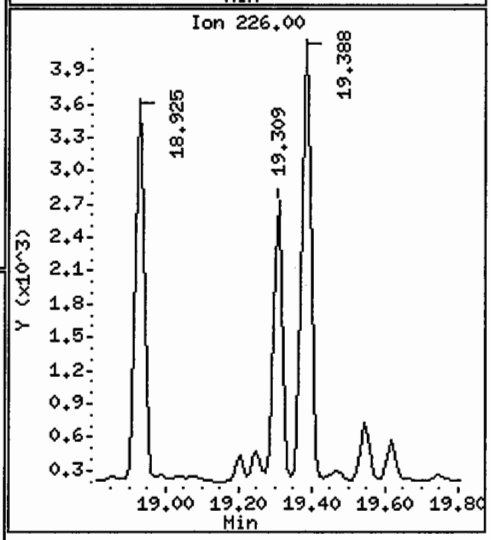
29 Benzo(a)anthracene

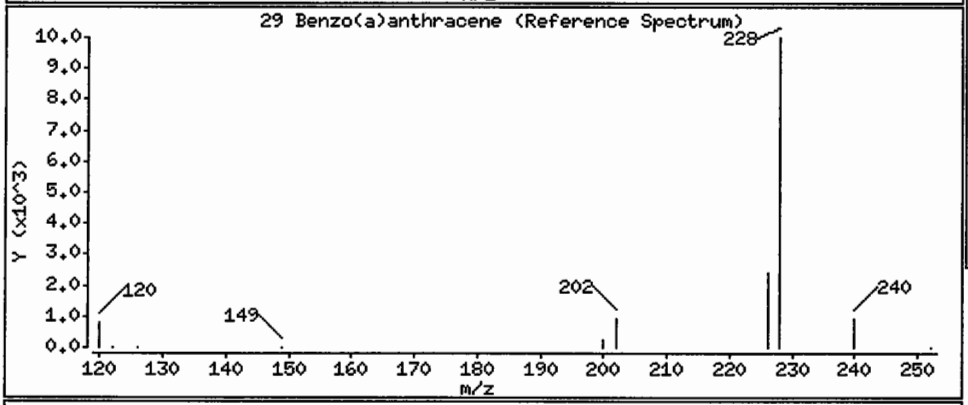
Concentration: 4.7 ug/Kg

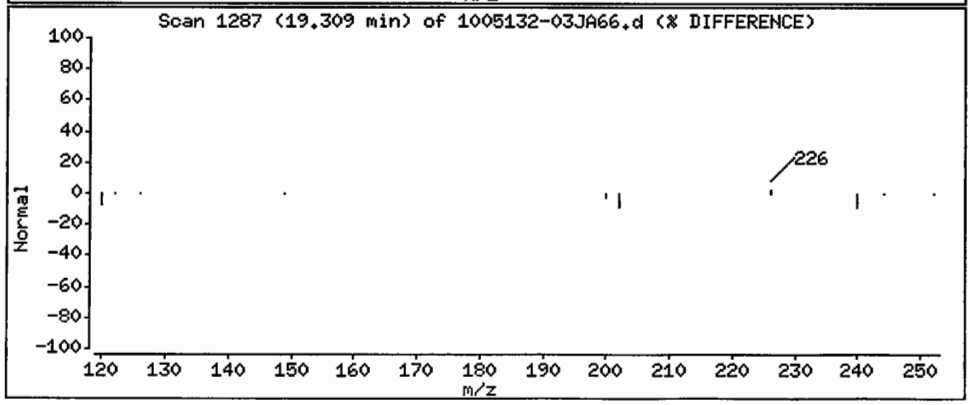












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

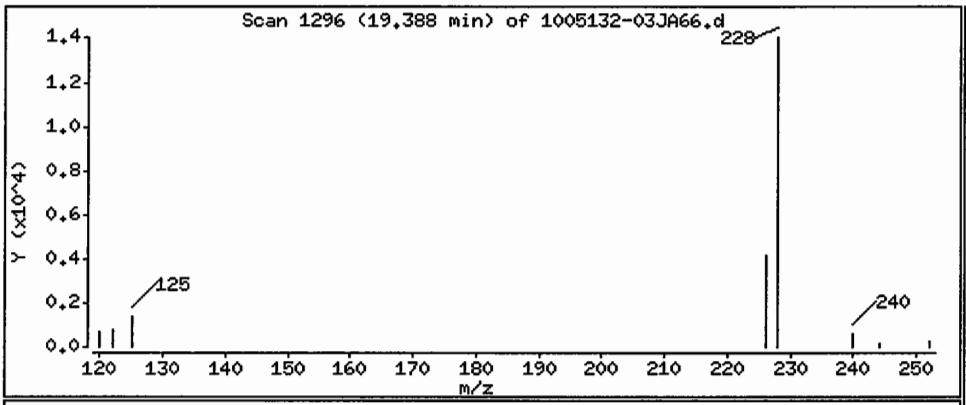
Operator: 2730

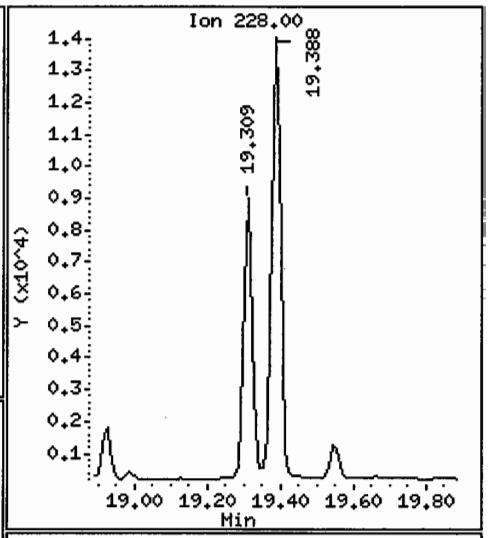
Column phase: Rtx-5MS

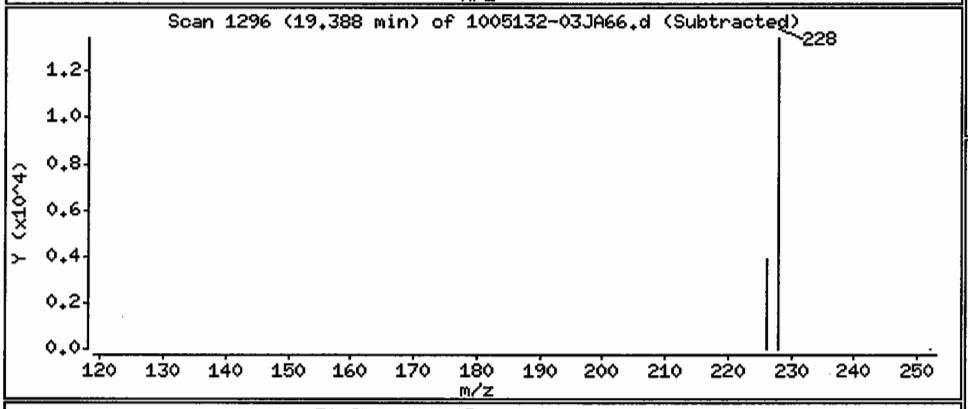
Column diameter: 0.32

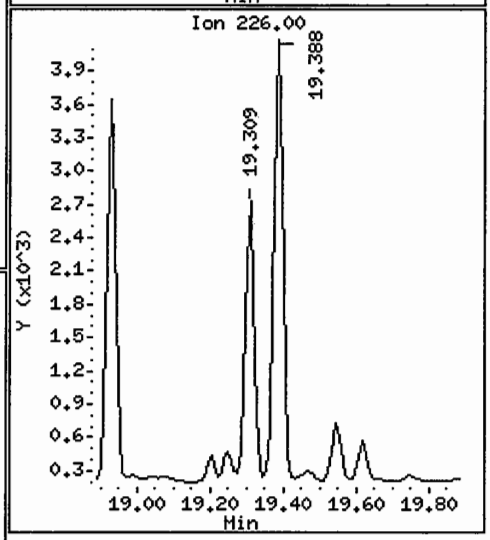
30 Chrysene

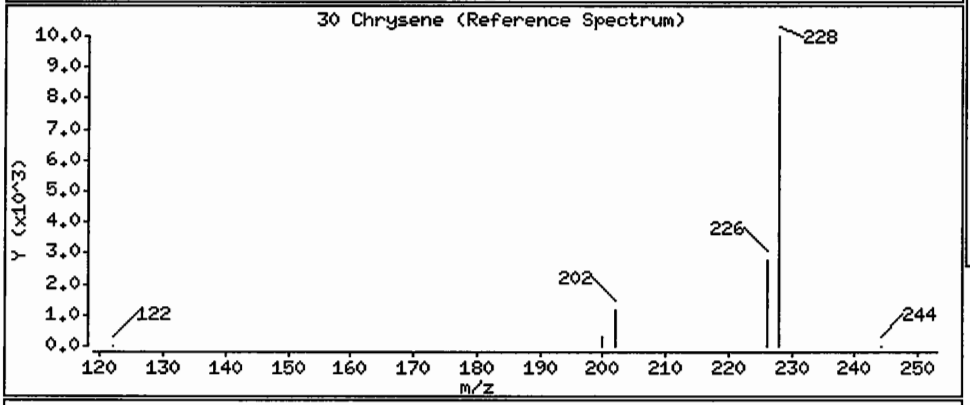
Concentration: 7.5 ug/Kg

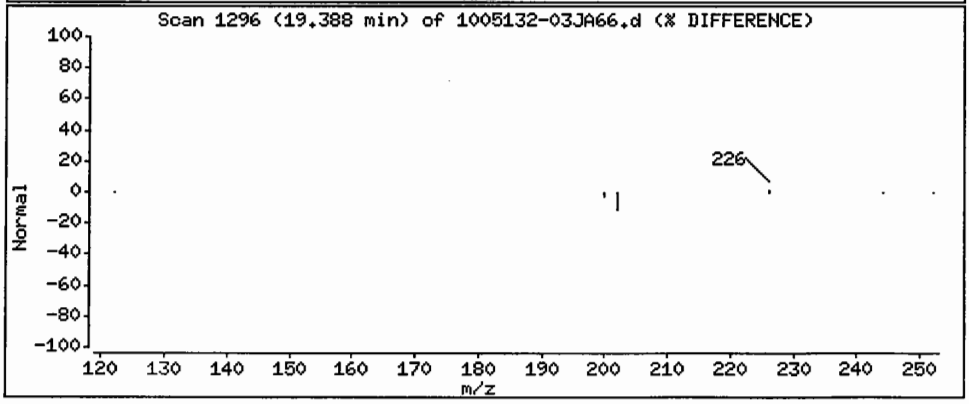












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

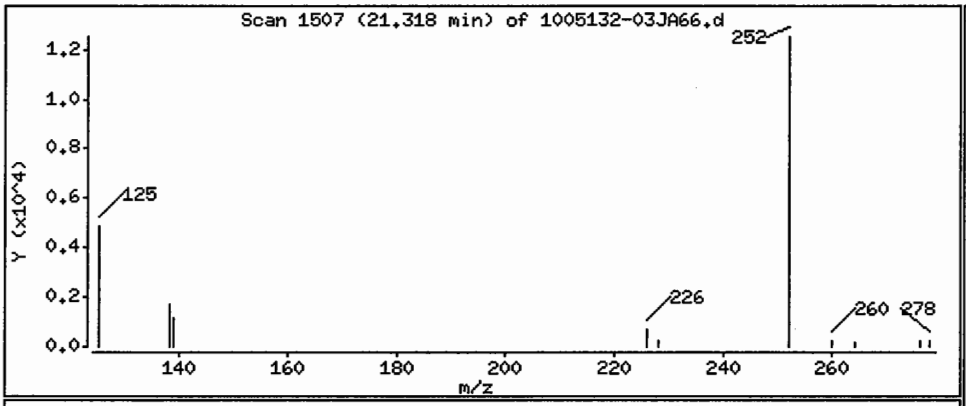
Operator: 2730

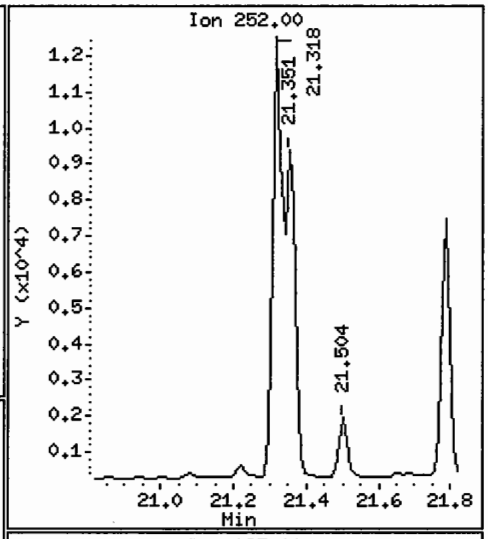
Column phase: Rtx-5MS

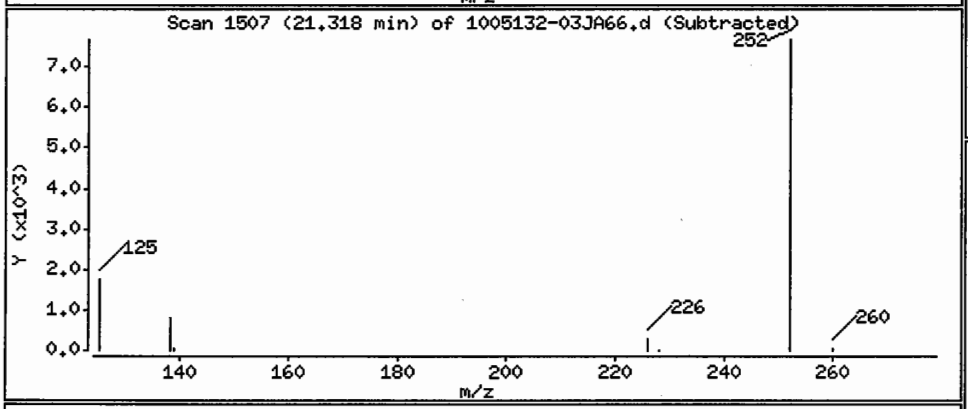
Column diameter: 0.32

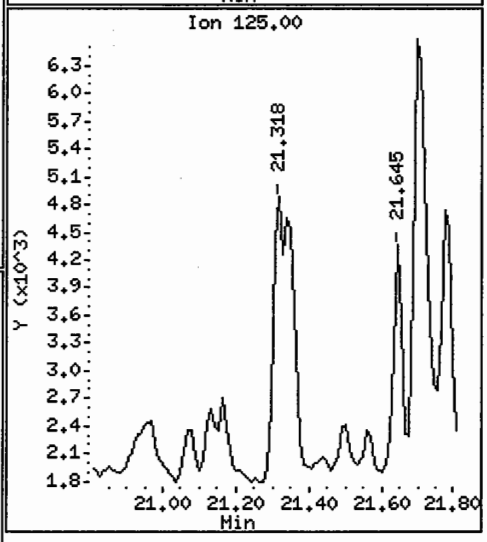
31 Benzo(b)fluoranthene

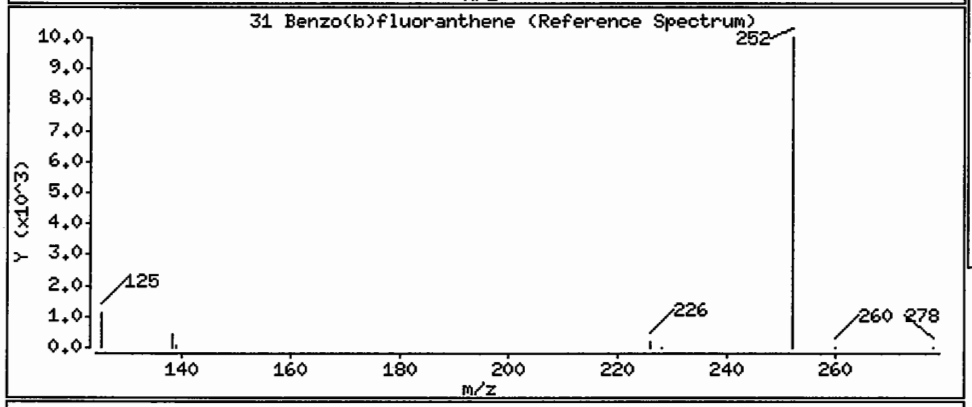
Concentration: 8.6 ug/Kg

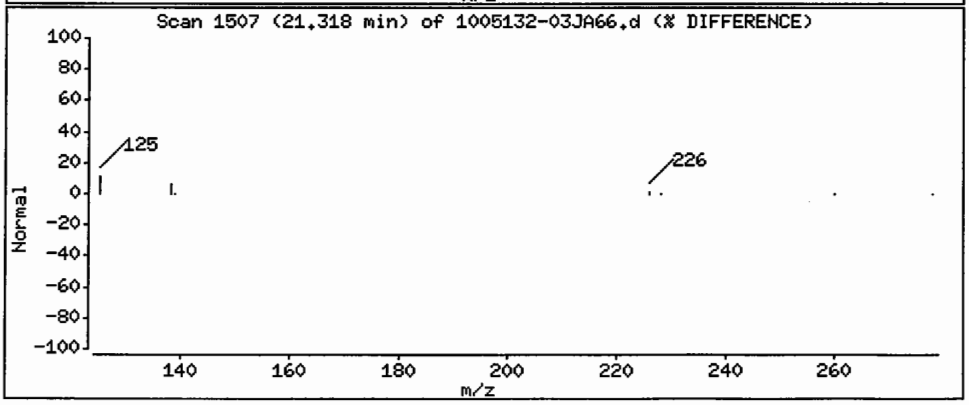












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

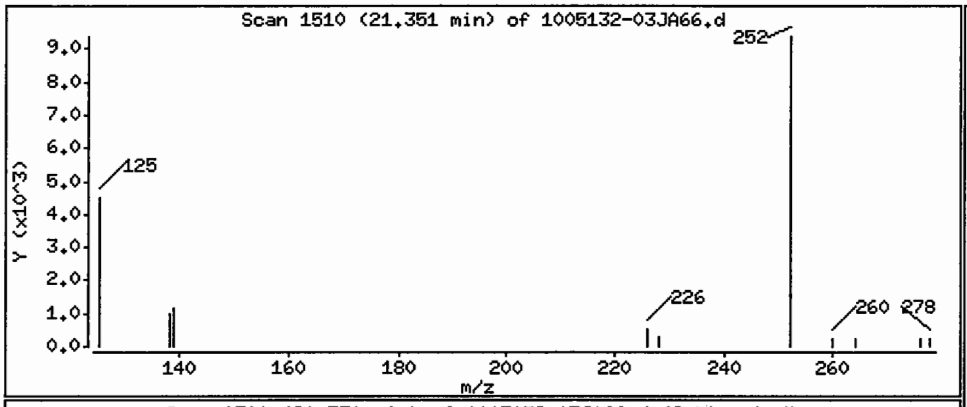
Operator: 2730

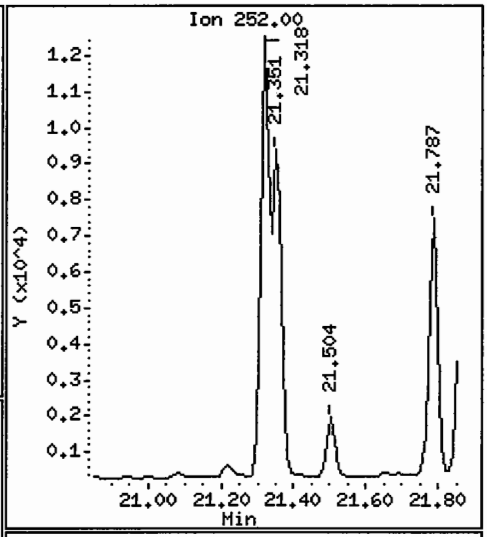
Column phase: Rtx-5MS

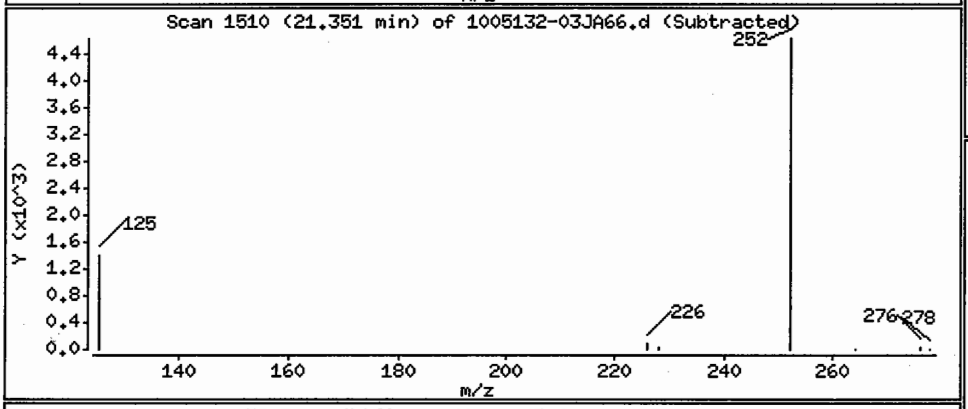
Column diameter: 0.32

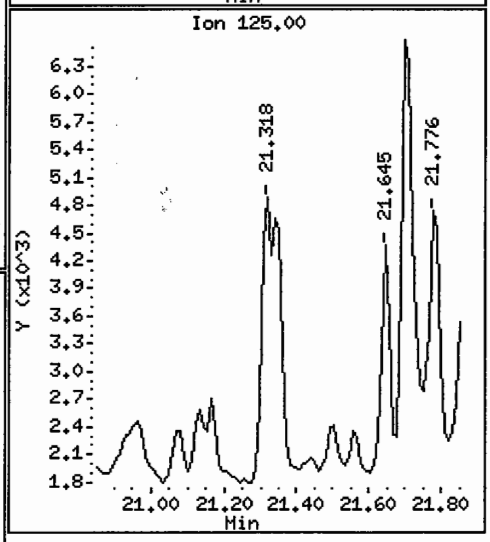
32 Benzo(k)fluoranthene

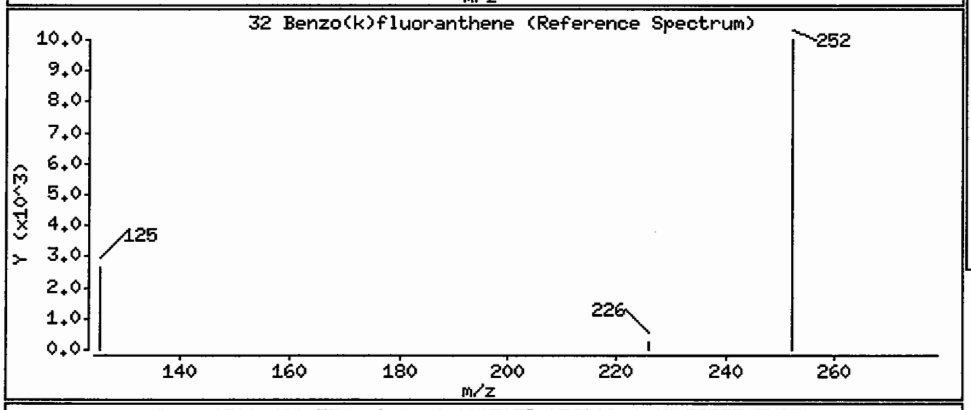
Concentration: 6.1 ug/Kg

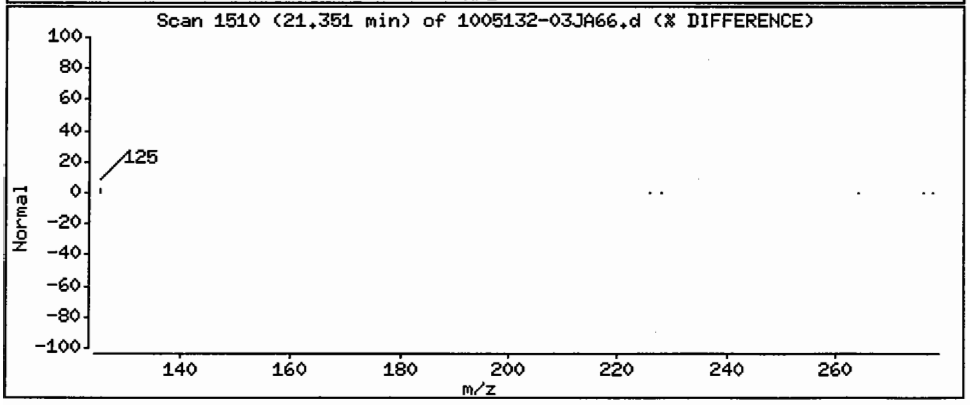












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

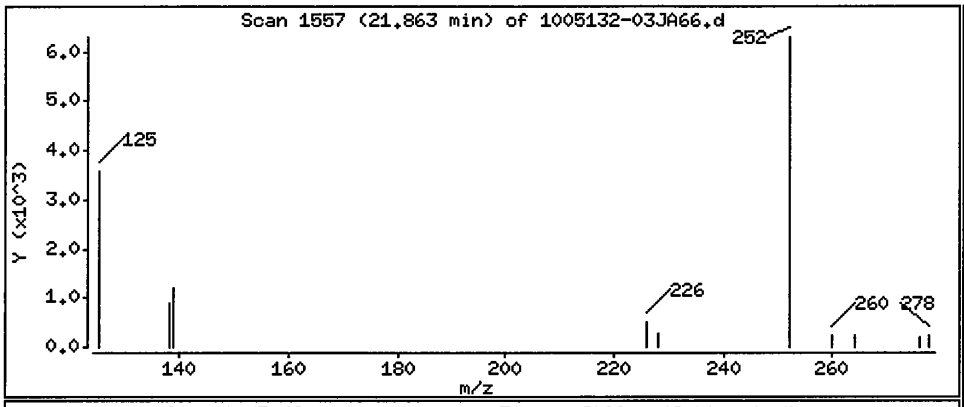
Operator: 2730

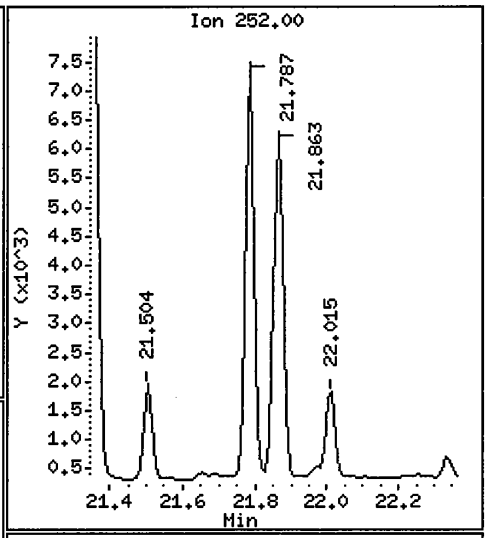
Column phase: Rtx-5MS

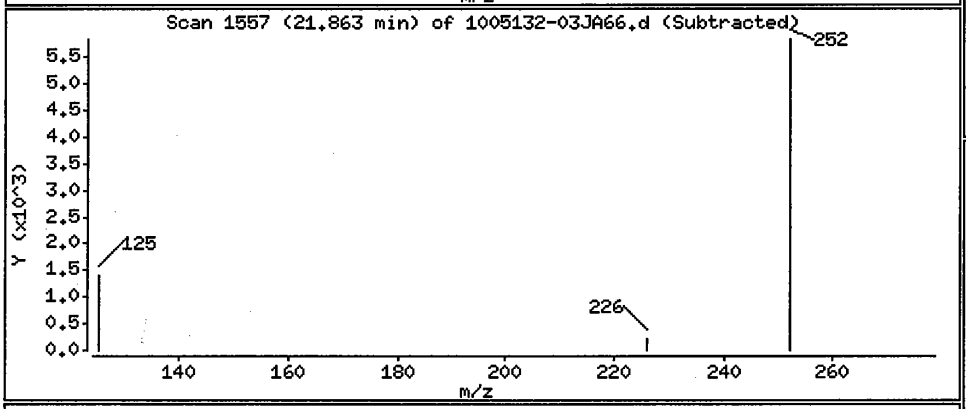
Column diameter: 0.32

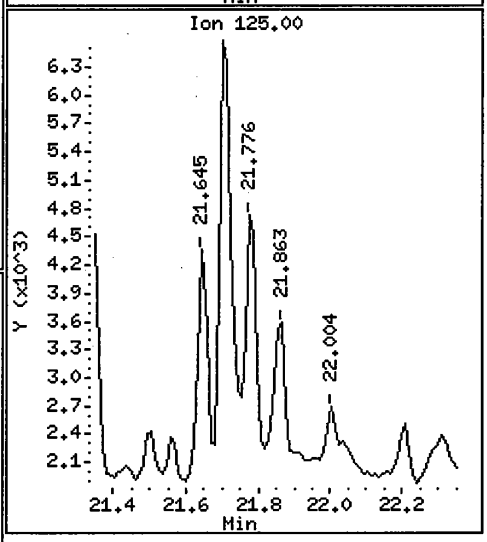
33 Benzo(a)pyrene

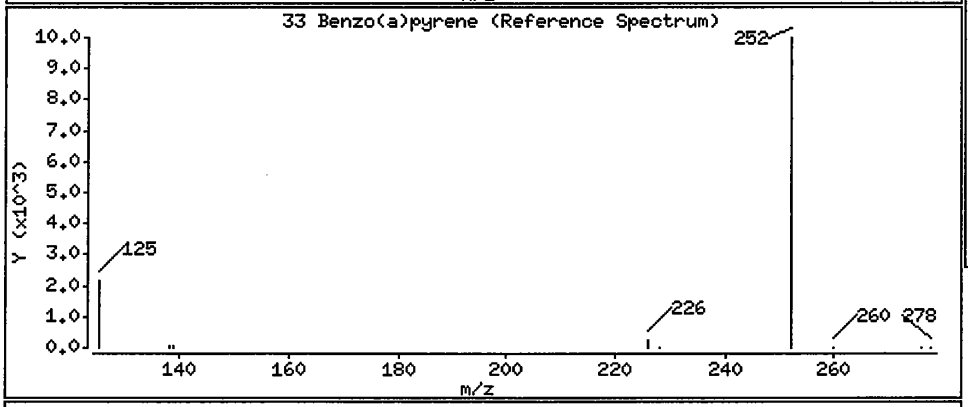
Concentration: 4.1 ug/Kg

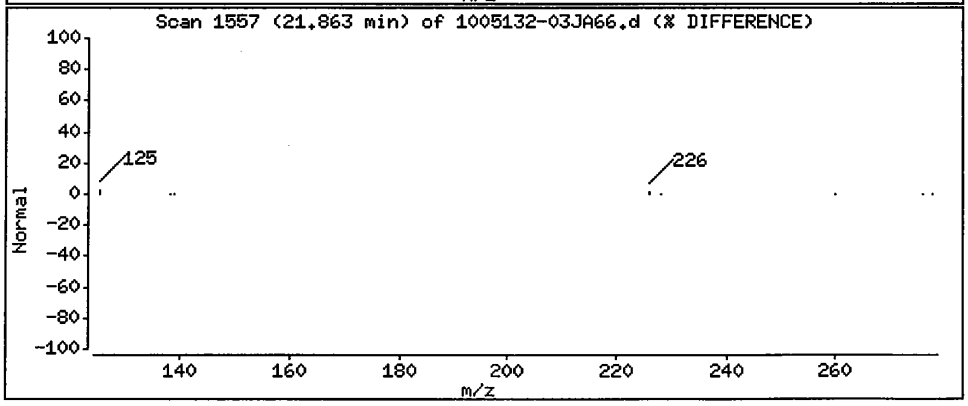












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

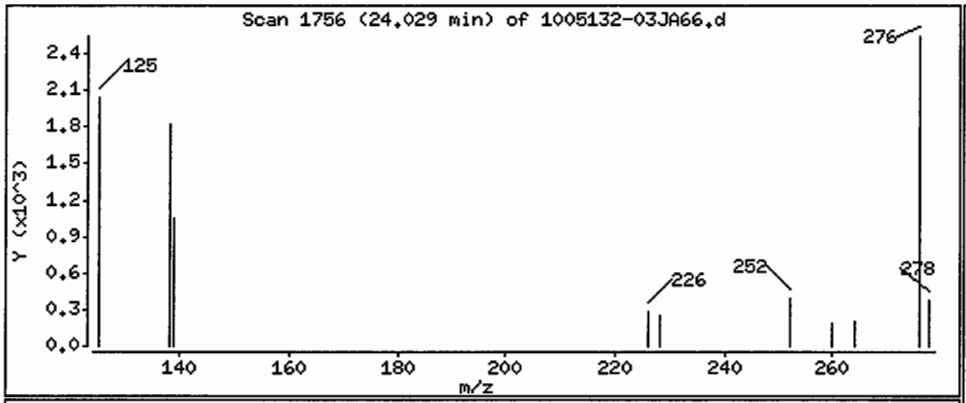
Operator: 2730

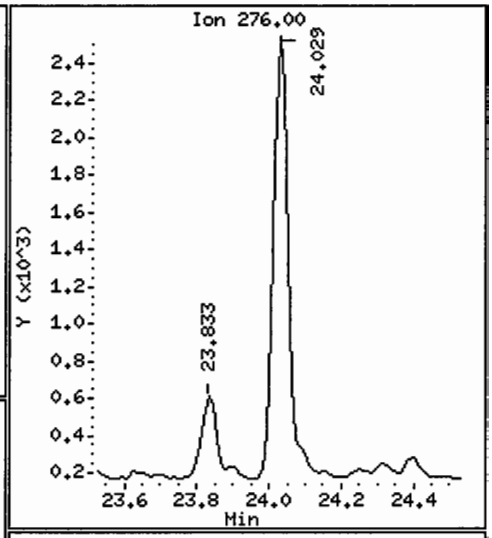
Column phase: Rtx-5MS

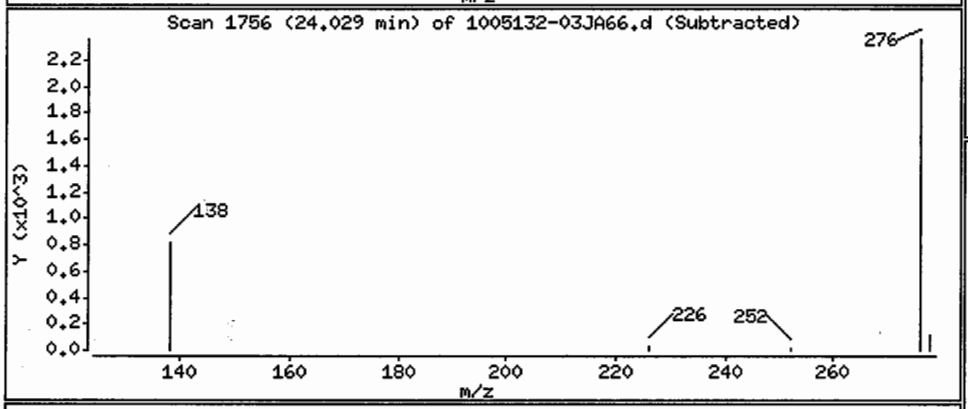
Column diameter: 0.32

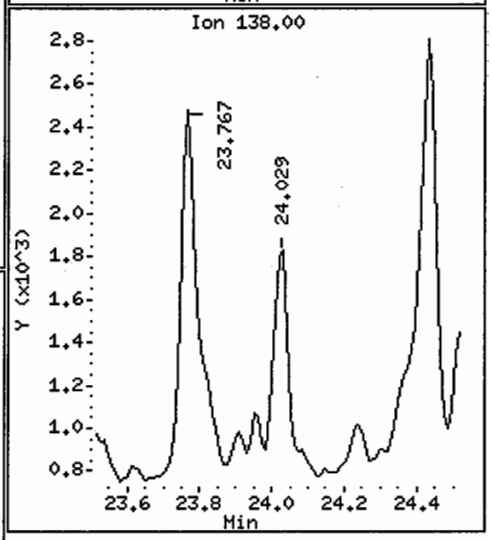
34 Indeno(1,2,3-cd)pyrene

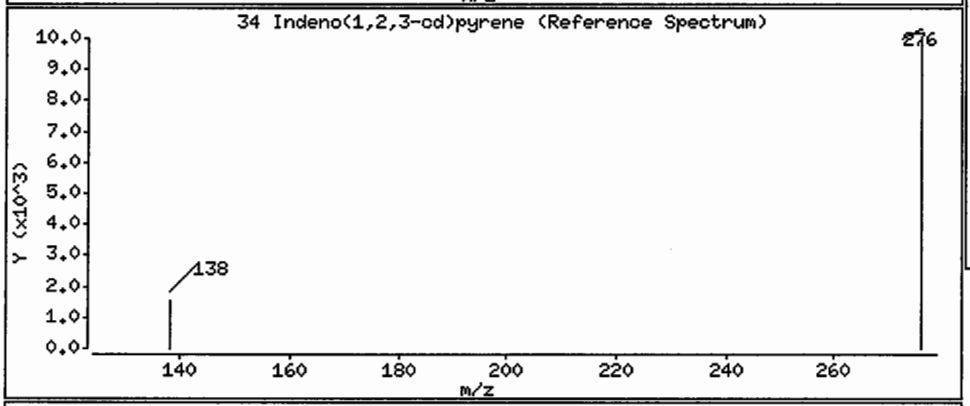
Concentration: 3.0 ug/Kg

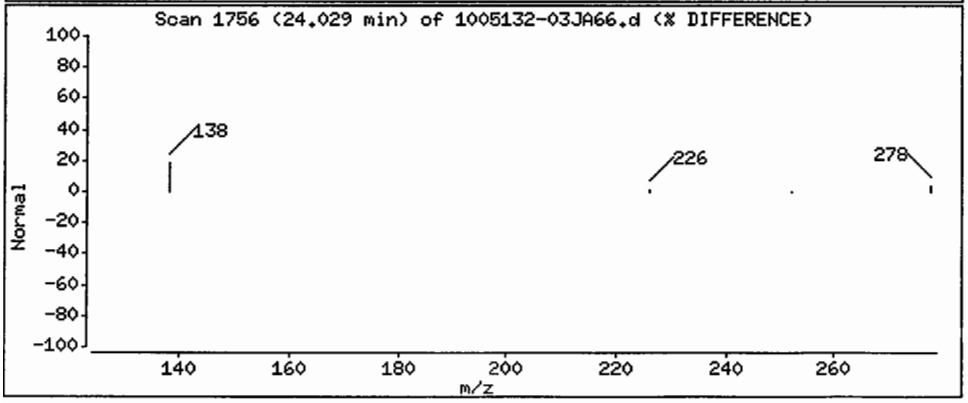












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

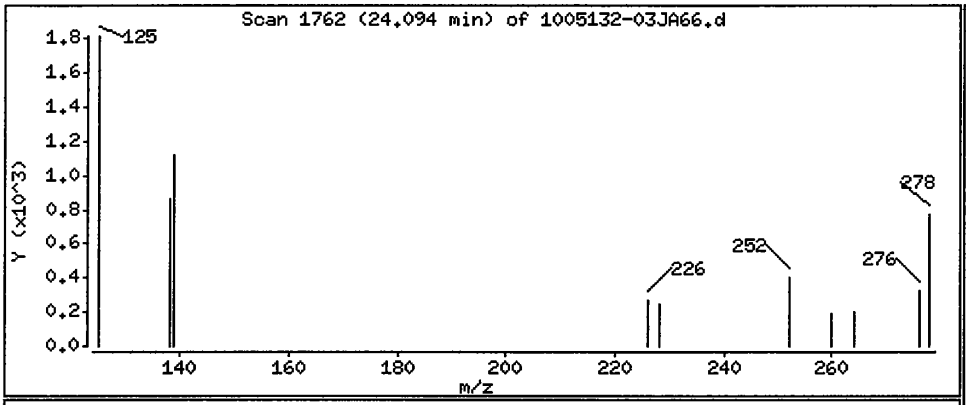
Operator: 2730

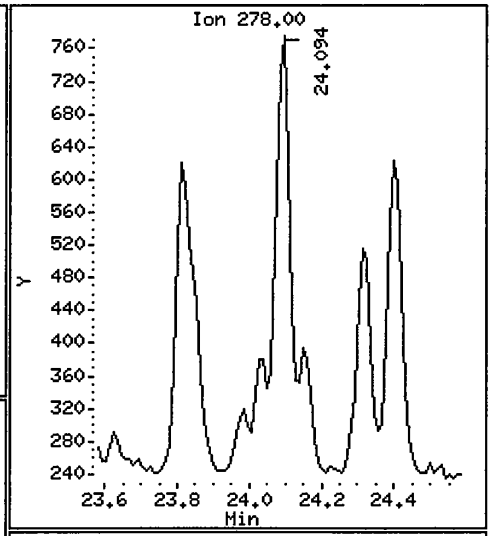
Column phase: Rtx-5MS

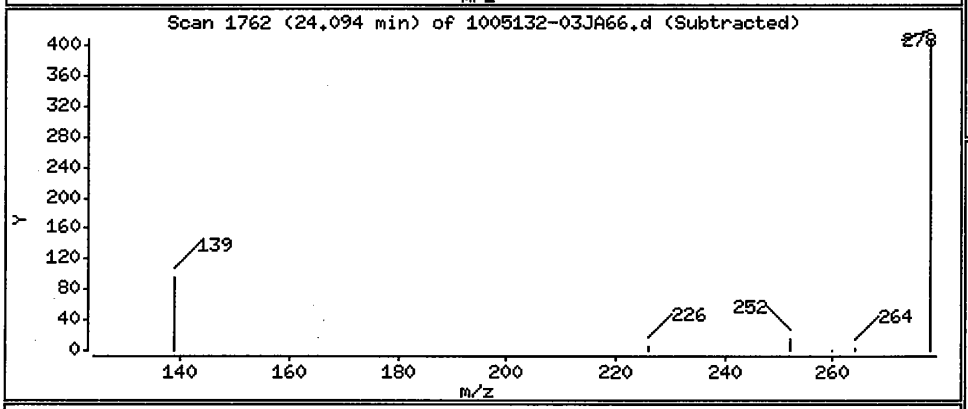
Column diameter: 0.32

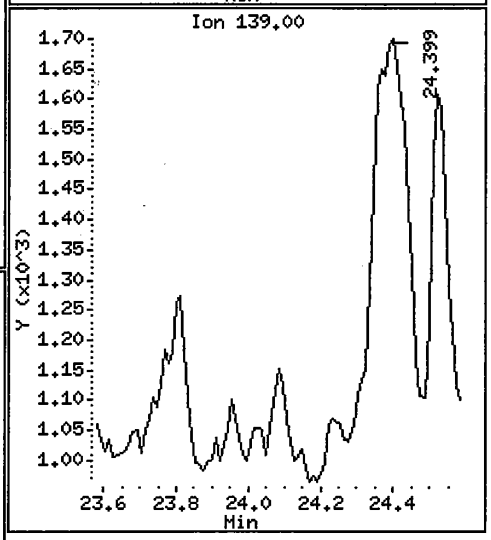
35 Dibenzo(a,h)anthracene

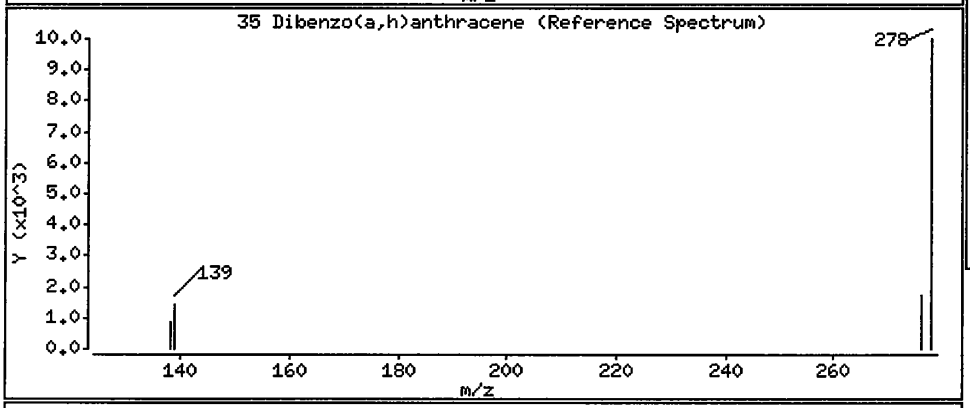
Concentration: 0.68 ug/Kg

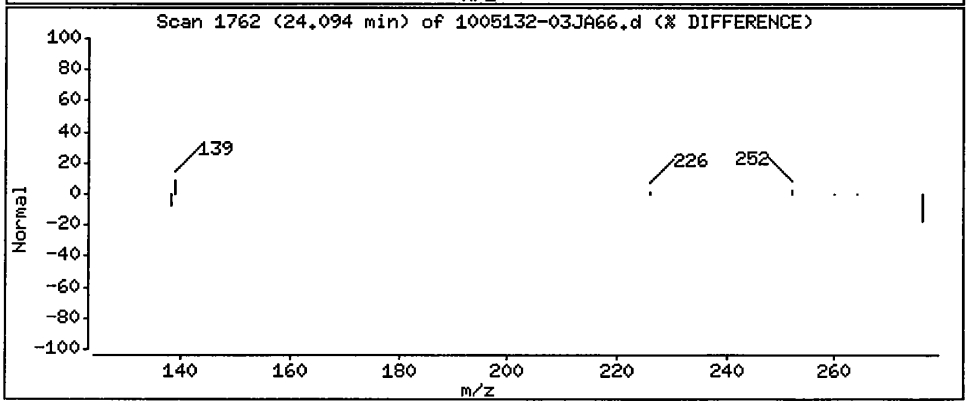












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d

Date : 26-MAY-2010 19:43

Client ID: SS77-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-03:2730

Volume Injected (uL): 2.0

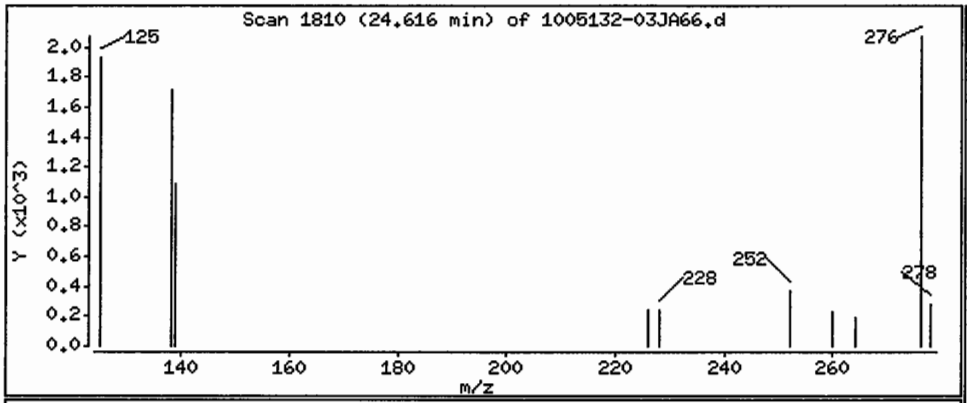
Operator: 2730

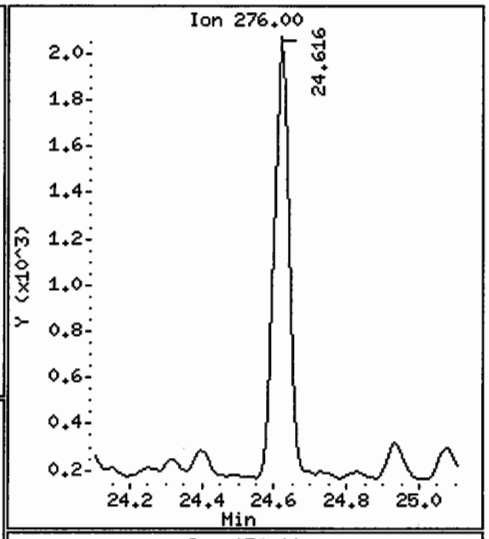
Column phase: Rtx-5MS

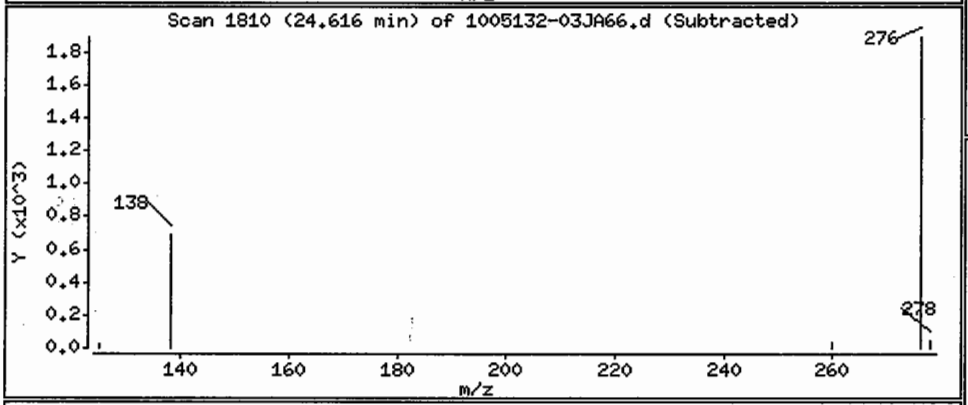
Column diameter: 0.32

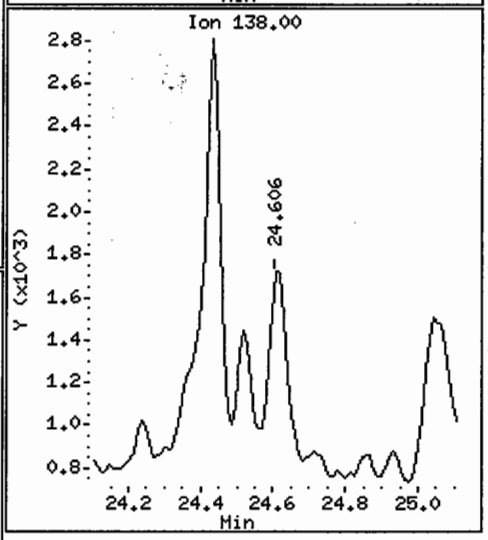
36 Benzo(g,h,i)perylene

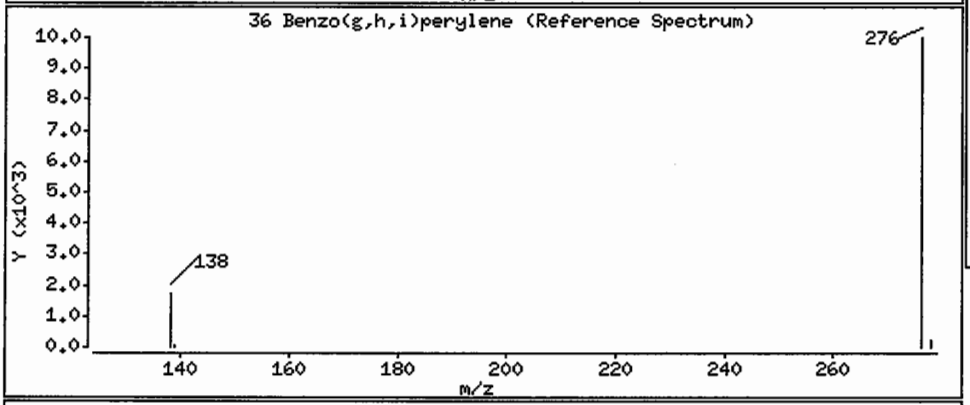
Concentration: 2.2 ug/Kg

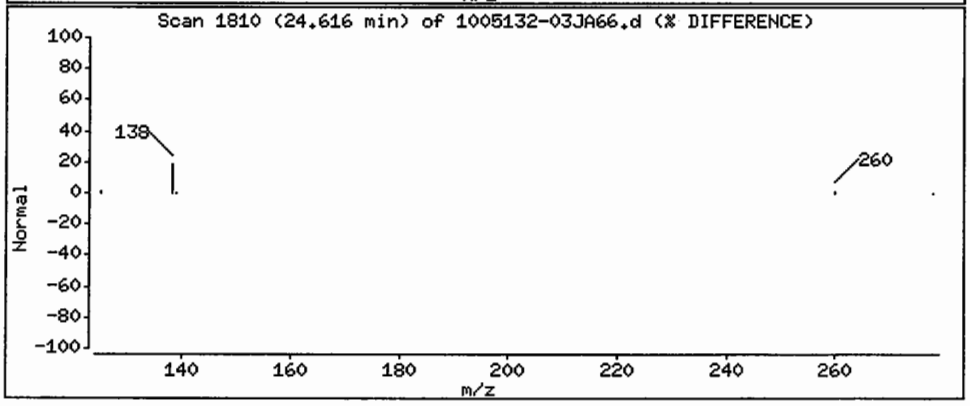






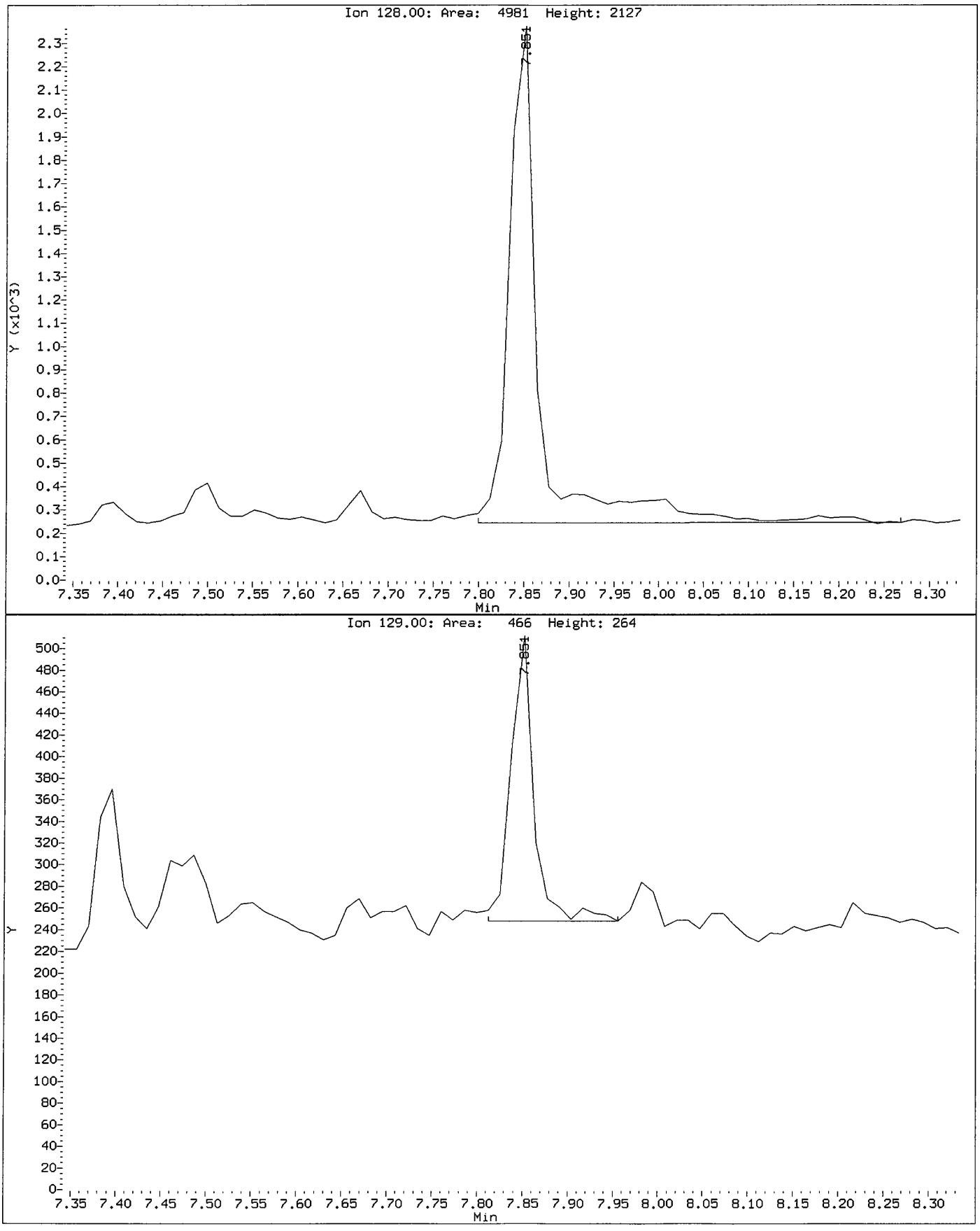






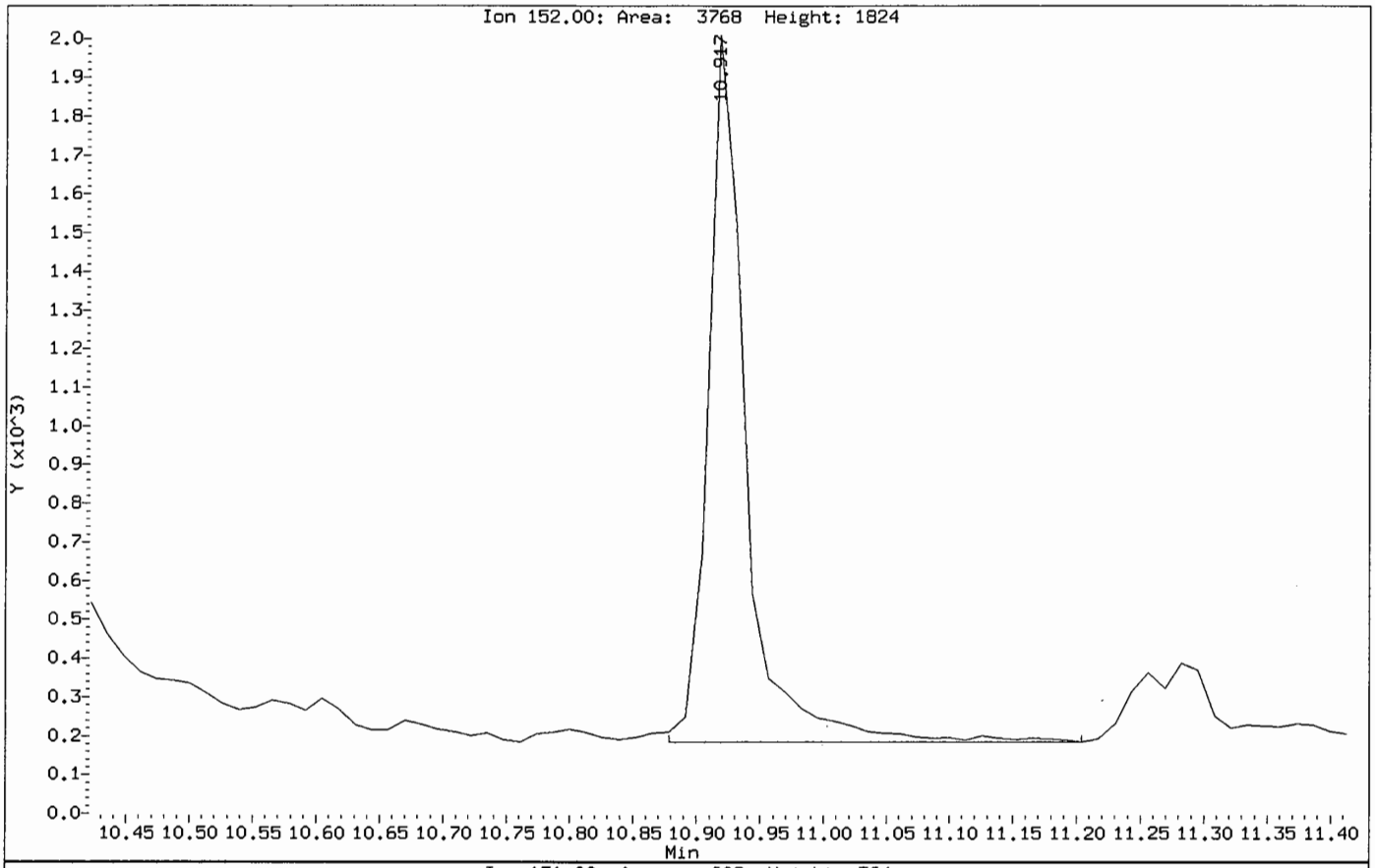
Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Injection Date: 26-MAY-2010 19:43
Instrument: 5972hp66.i
Client Sample ID: SS77-0-1RE

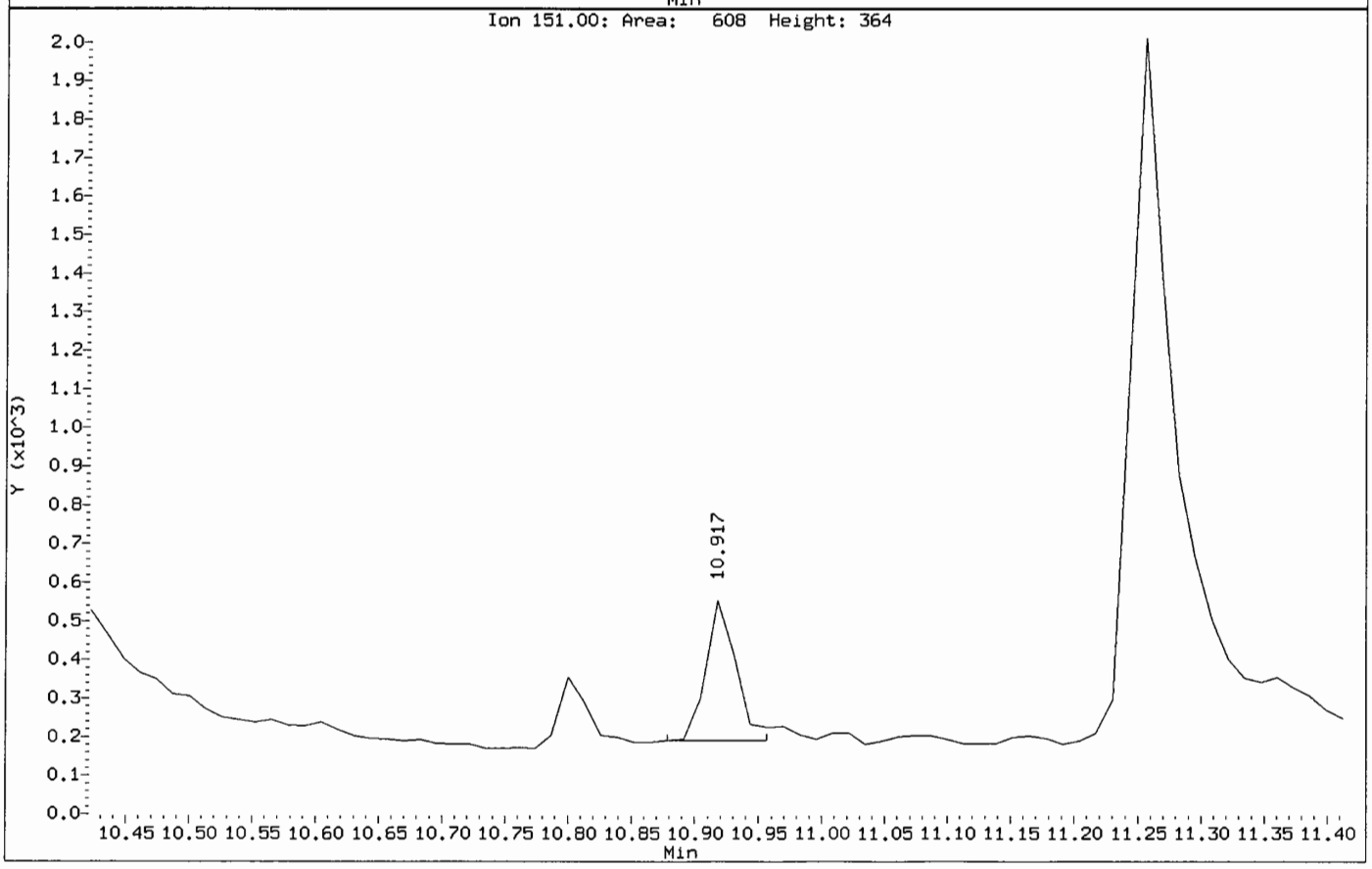
Compound: Naphthalene
CAS Number: 91-20-3



Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Injection Date: 26-MAY-2010 19:43
Instrument: 5972hp66.i
Client Sample ID: SS77-0-1RE

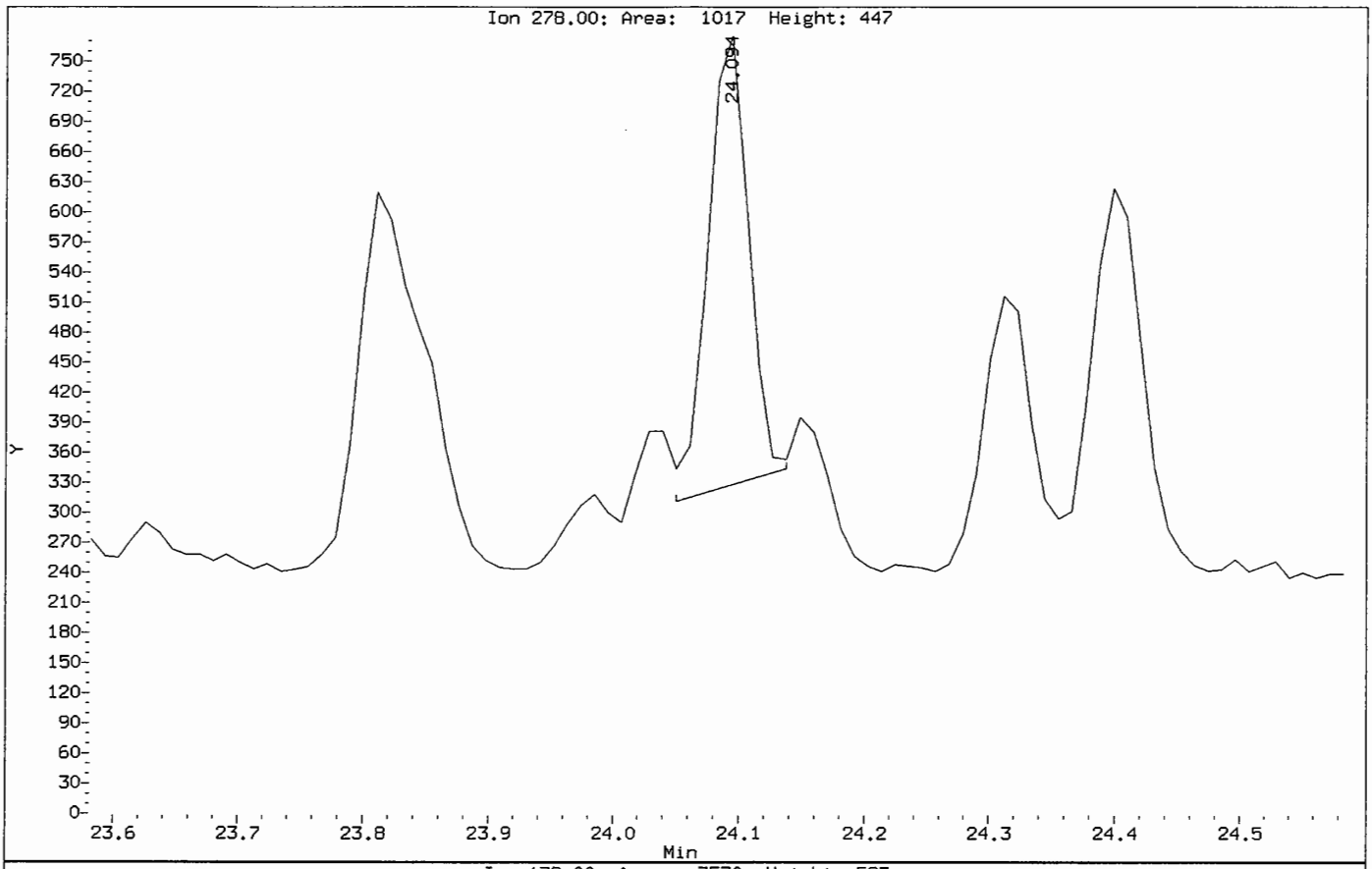
Compound: Acenaphthylene
CAS Number: 208-96-8

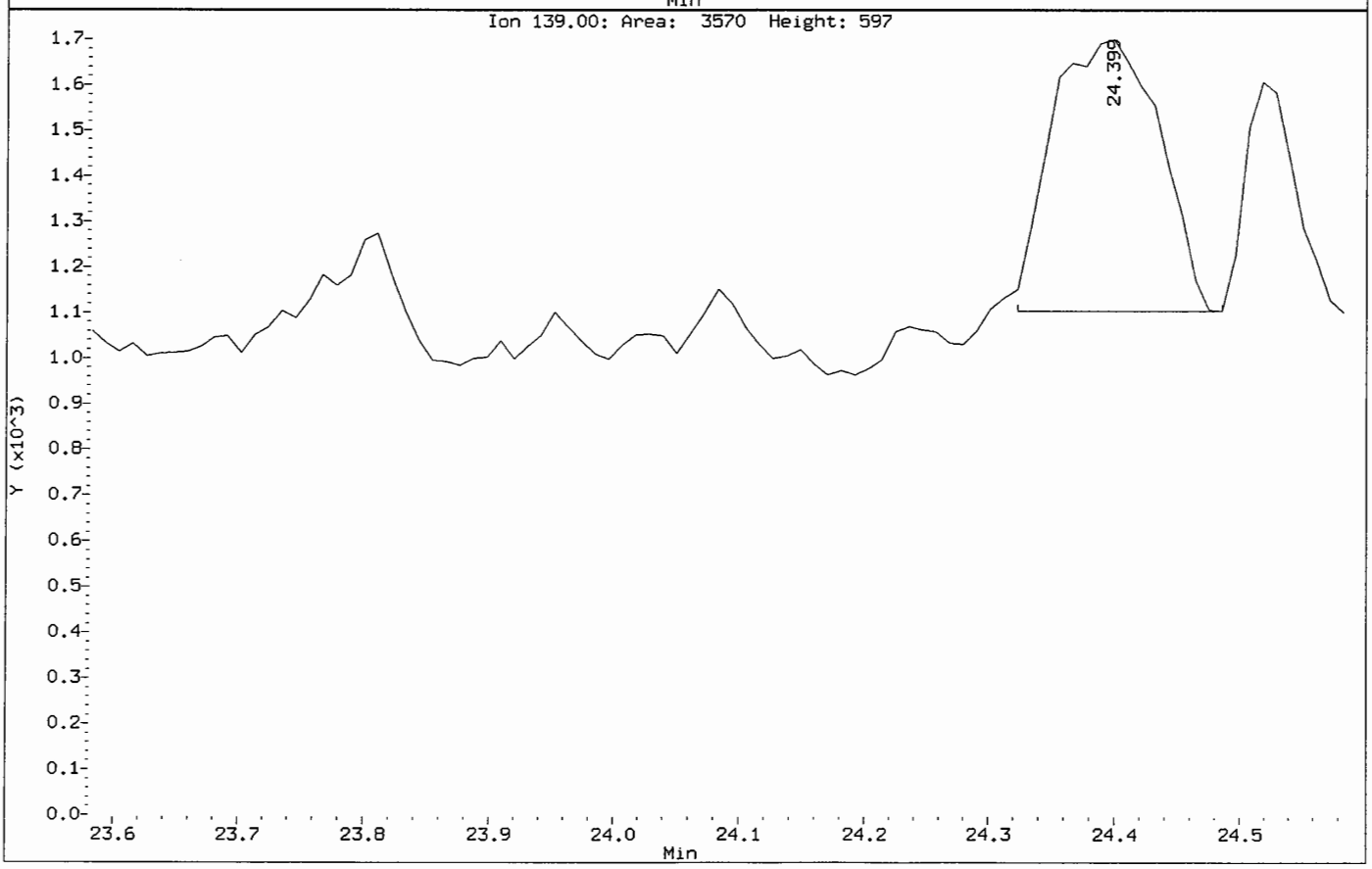




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Injection Date: 26-MAY-2010 19:43
Instrument: 5972hp66.i
Client Sample ID: SS77-0-1RE

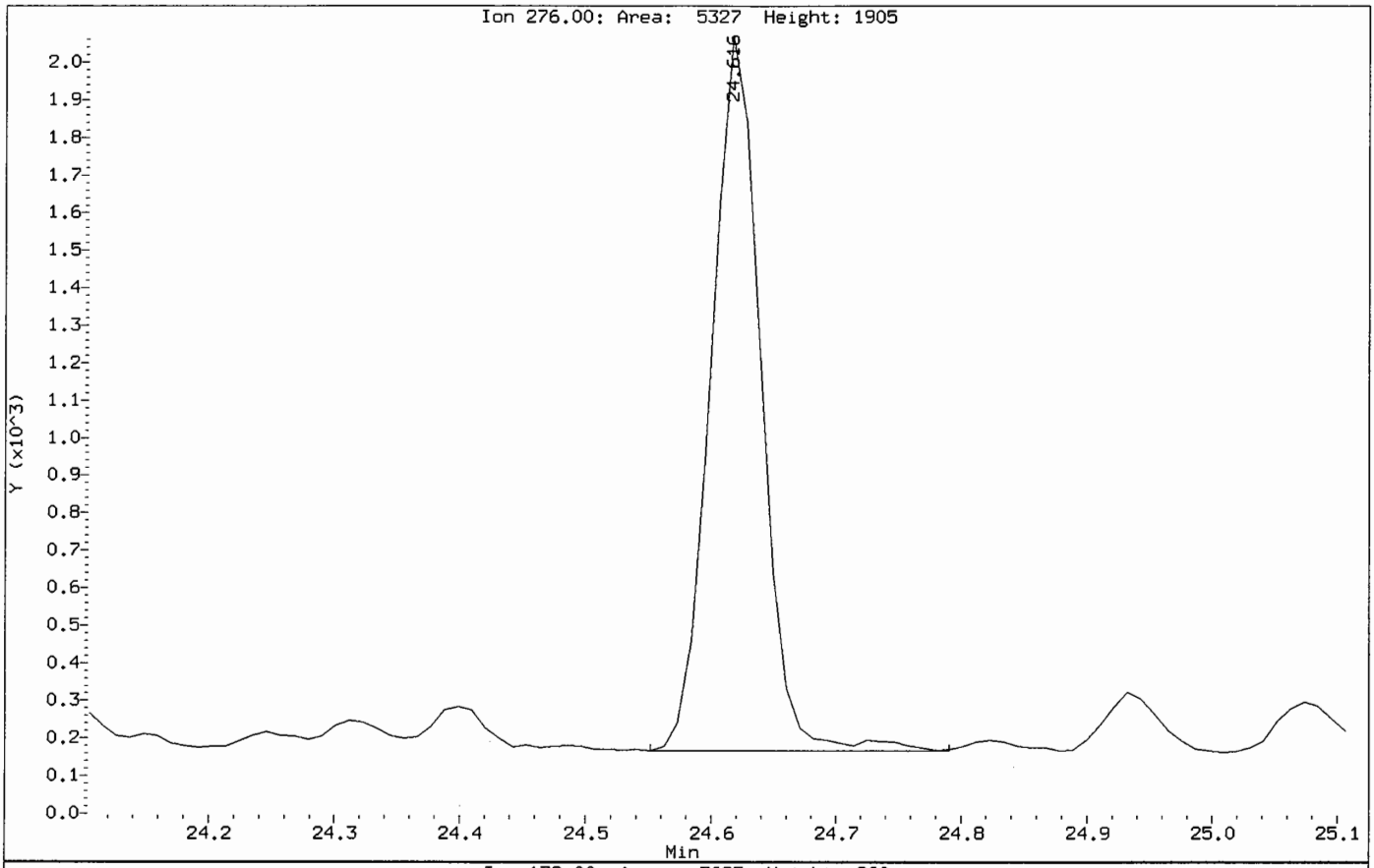
Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3

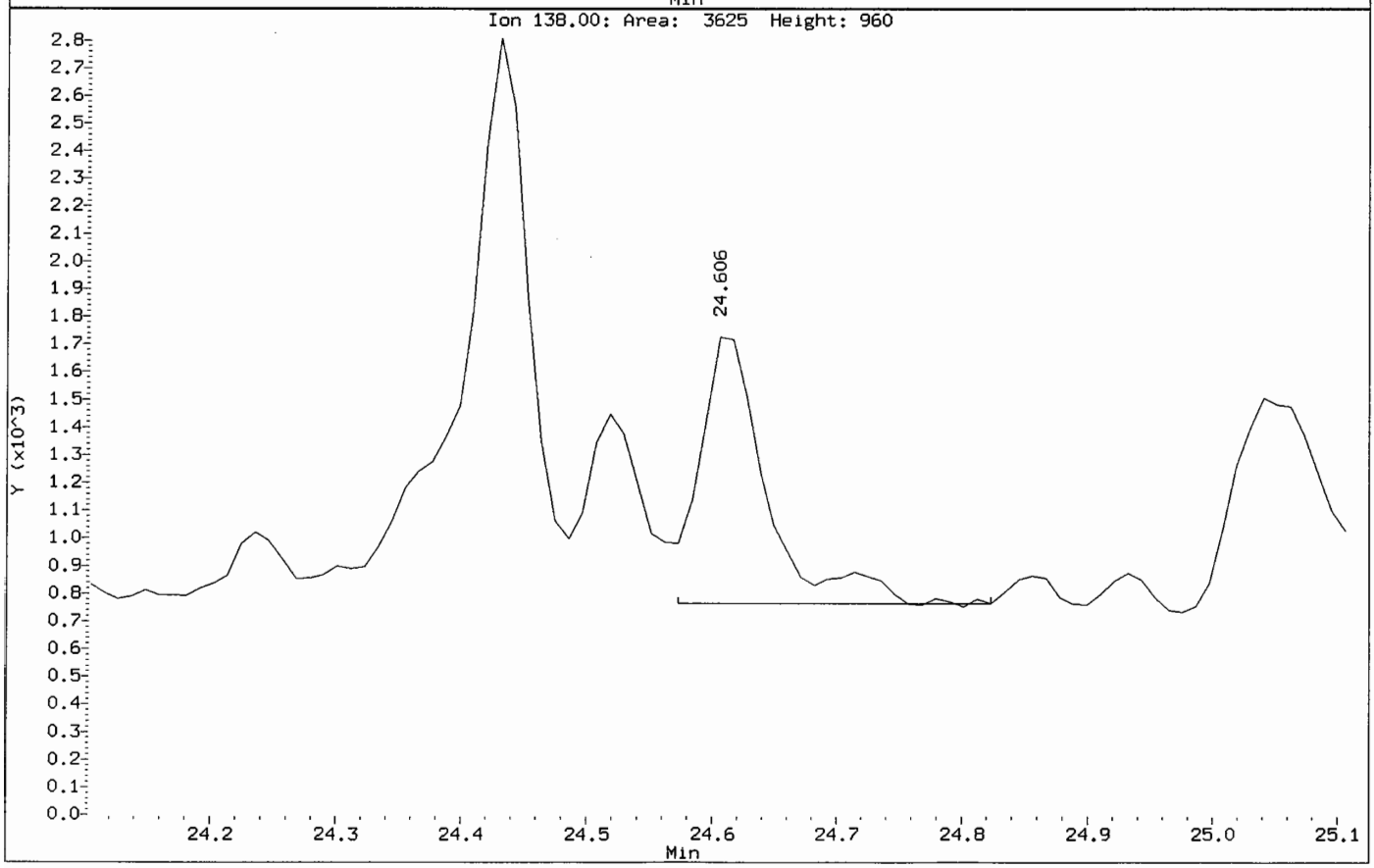




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-03JA66.d
Injection Date: 26-MAY-2010 19:43
Instrument: 5972hp66.i
Client Sample ID: SS77-0-1RE

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS79-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-05C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 4 decanted: (Y/N) N Date Extracted:05/20/10

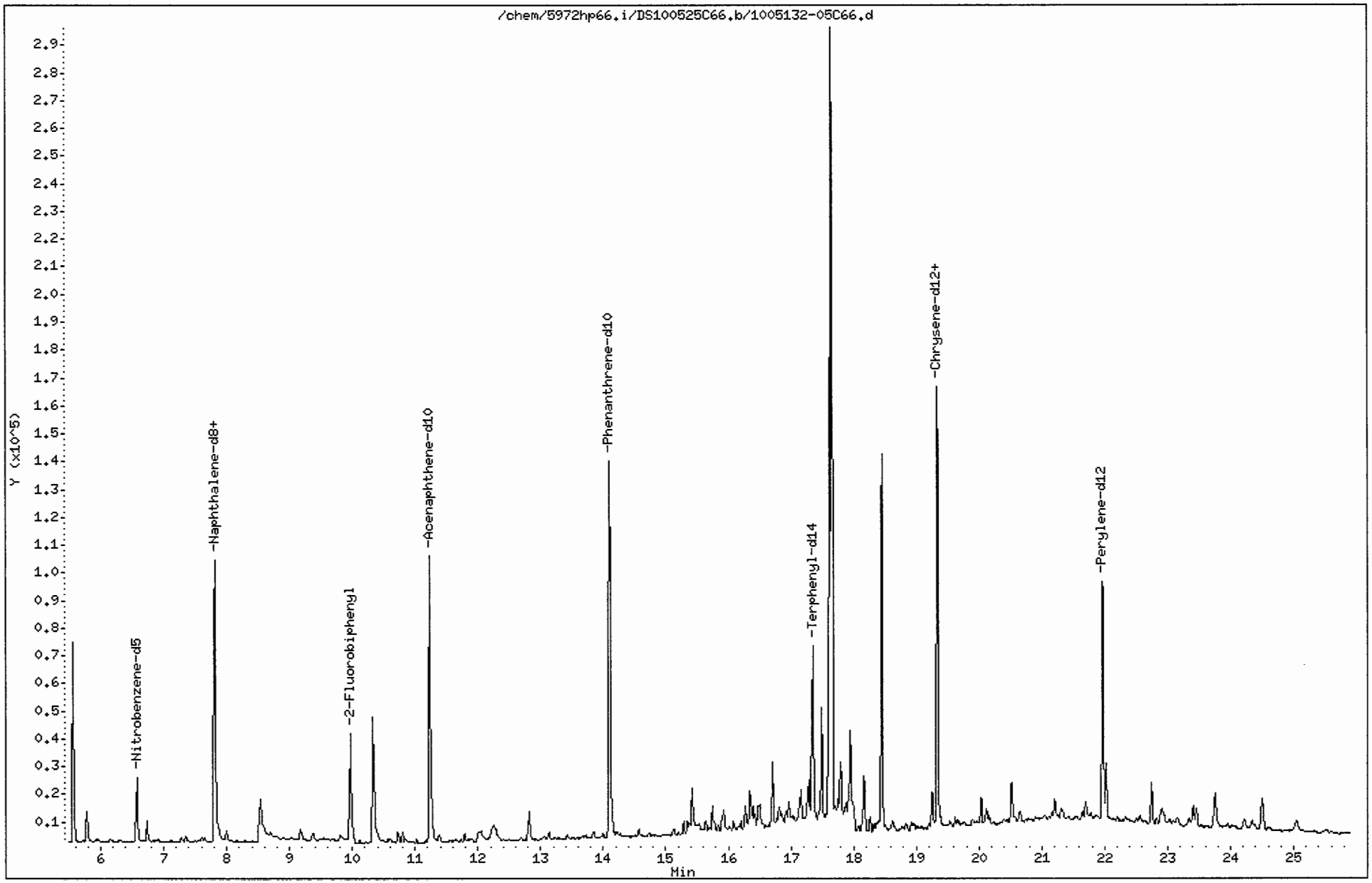
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.7	J
91-57-6	2-Methylnaphthalene	0.92	J
208-96-8	Acenaphthylene	8.6	U
83-32-9	Acenaphthene	8.6	U
86-73-7	Fluorene	8.6	U
85-01-8	Phenanthrene	1.8	J
120-12-7	Anthracene	8.6	U
206-44-0	Fluoranthene	8.6	U
129-00-0	Pyrene	0.76	J
56-55-3	Benzo(a)anthracene	8.6	U
218-01-9	Chrysene	0.67	J
205-99-2	Benzo(b)fluoranthene	8.6	U
207-08-9	Benzo(k)fluoranthene	0.52	J
50-32-8	Benzo(a)pyrene	8.6	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.6	U
53-70-3	Dibenzo(a,h)anthracene	8.6	U
191-24-2	Benzo(g,h,i)perylene	8.6	U

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d
Date : 26-MAY-2010 15:51
Client ID: SS79-0-1
Instrument: 5972hp66.i
Sample Info: 1005132-05:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d
Report Date: 01-Jun-2010 18:09

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d
Lab Smp Id: 1005132-05 Client Smp ID: SS79-0-1
Inj Date : 26-MAY-2010 15:51
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-05:2730
Misc Info : SS79-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 18:08 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	4.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.574	5.560	(1.000)	44721	2.00000	
* 2 Naphthalene-d8	136	7.816	7.802	(1.000)	155536	2.00000	
* 3 Acenaphthene-d10	164	11.231	11.231	(1.000)	78023	2.00000	
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	195179	2.00000	
* 5 Chrysene-d12	240	19.336	19.336	(1.000)	204654	2.00000	
* 6 Perylene-d12	264	21.962	21.961	(1.000)	129396	2.00000	
$ 9 Nitrobenzene-d5	82	6.577	6.563	(0.842)	24794	0.71639	12
$ 10 2-Fluorobiphenyl	172	9.966	9.966	(0.887)	54887	0.67413	12
$ 12 Terphenyl-d14	244	17.348	17.347	(0.897)	73603	0.98983	17
13 Naphthalene	128	7.842	7.841	(1.003)	9405	0.09776	1.7(a)
15 2-Methylnaphthalene	141	9.171	9.170	(0.817)	2957	0.05293	0.92(aM)
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d
Report Date: 01-Jun-2010 18:09

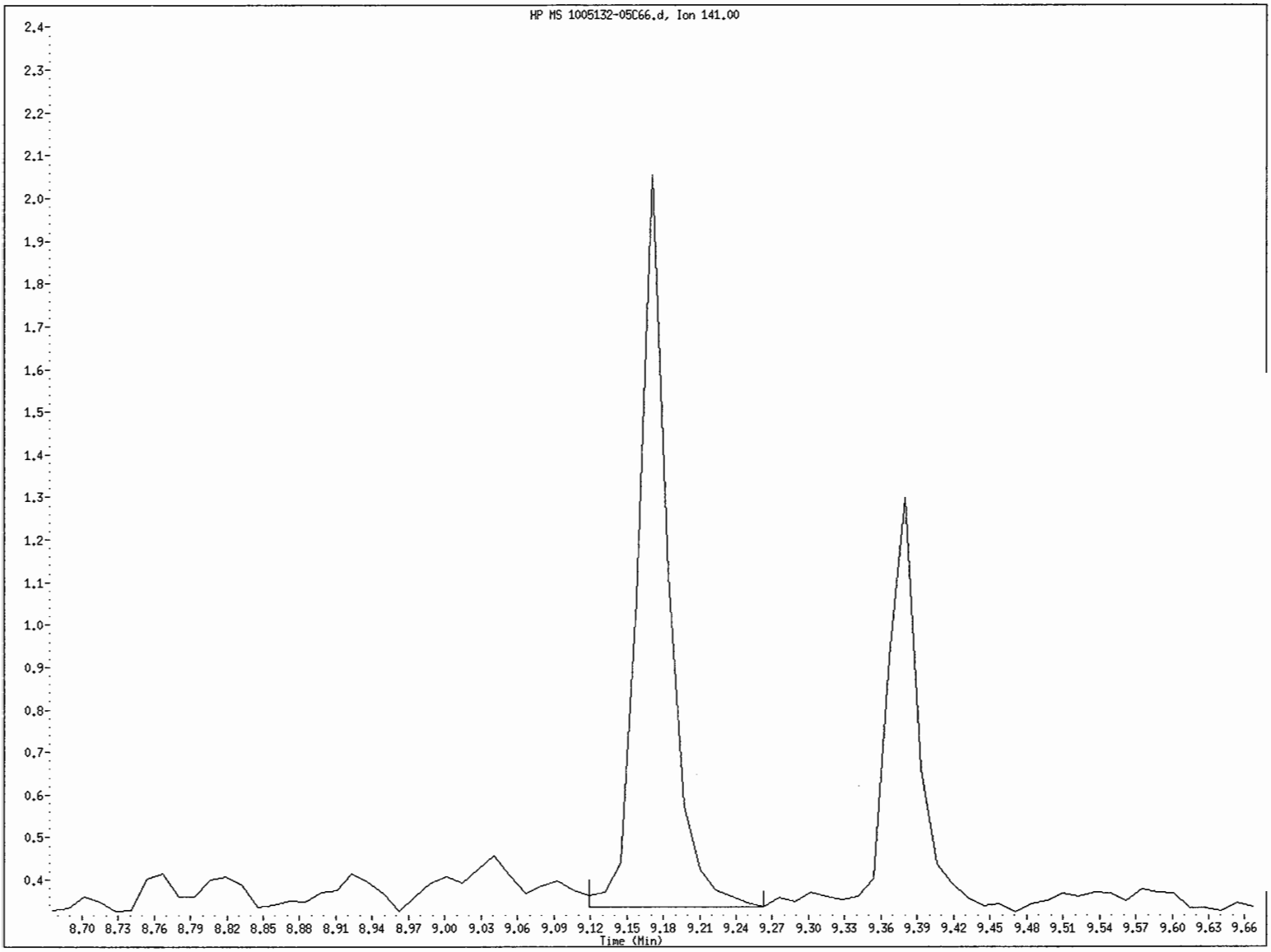
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.154	14.140	(1.004)	12668	0.10409	1.8(a)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.918	16.917	(0.875)	6500	0.04398	0.76(a)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	19.379	19.379	(1.002)	4670	0.03876	0.67(aM)
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	21.352	21.352	(0.972)	2768	0.03014	0.52(aM)
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

17 Jun 11 lw

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

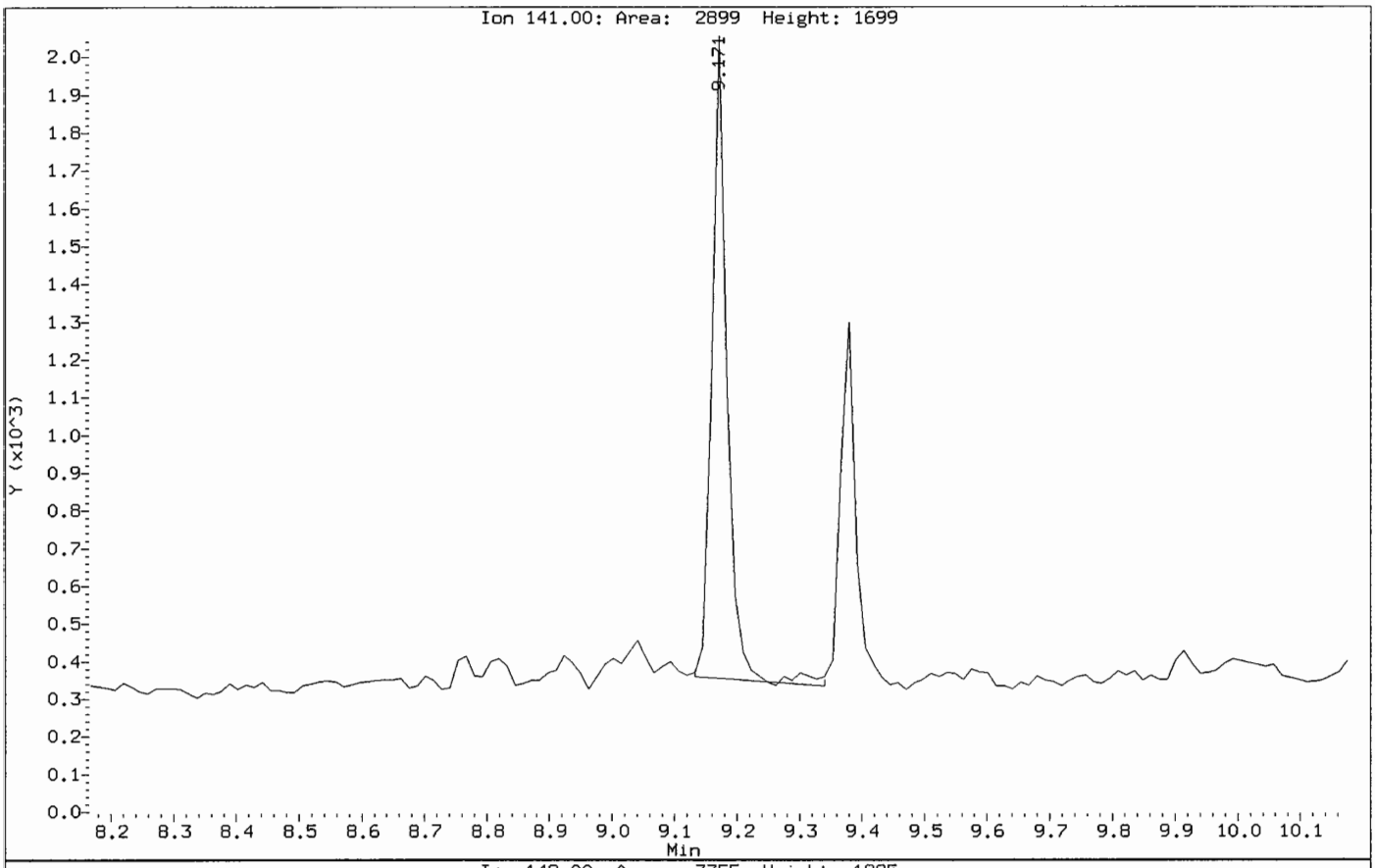
2-Methylnaphthalene CAS Number 91-57-6 Area = 2957 Manually integrated

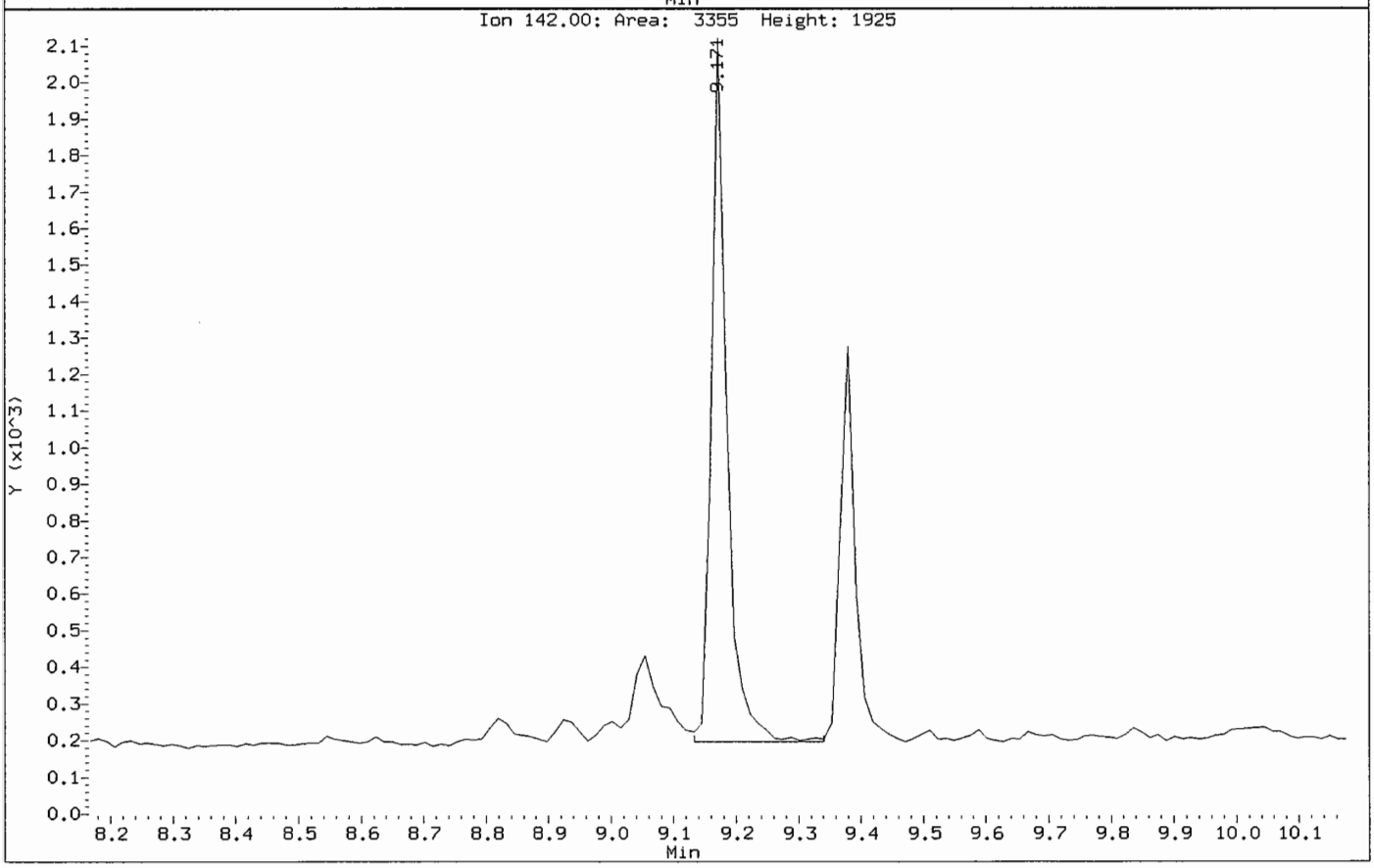


File name: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d
Client ID: SS79-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 15:51
Retention Time: 9.17
Operator ID: 2730

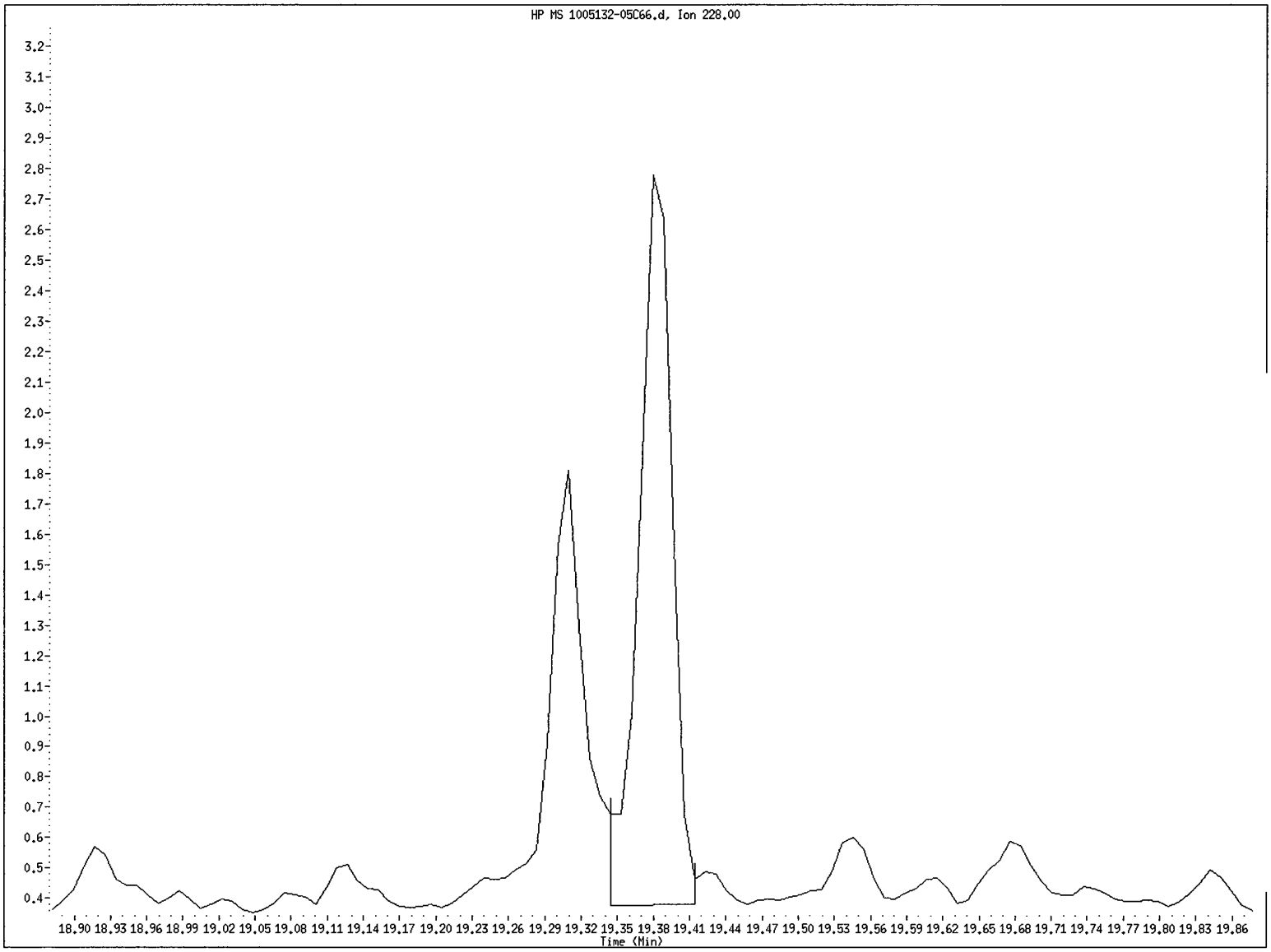
Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d
Injection Date: 26-MAY-2010 15:51
Instrument: 5972hp66.i
Client Sample ID: SS79-0-1

Compound: 2-Methylnaphthalene
CAS Number: 91-57-6



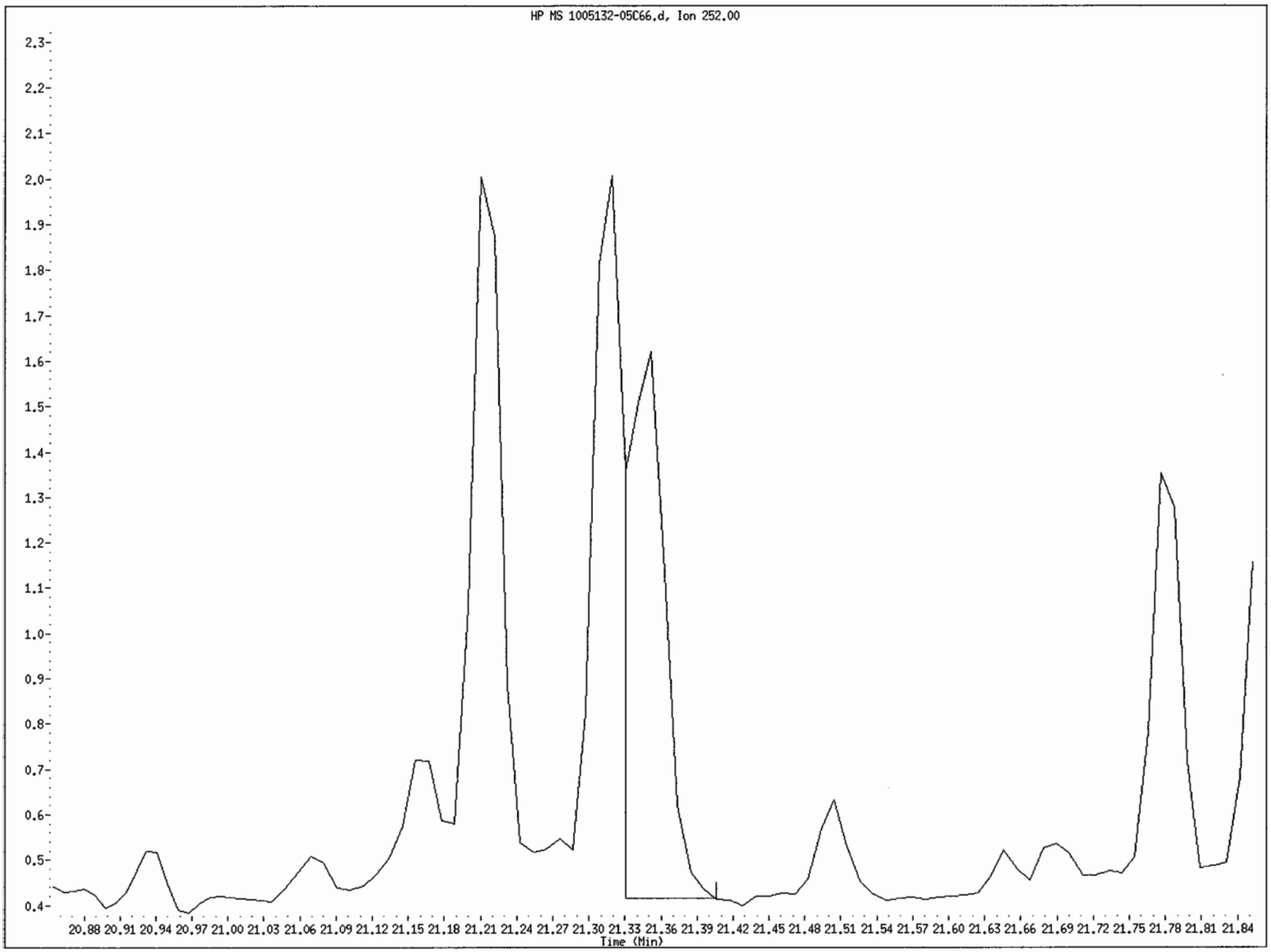


Chrysene CAS Number 218-01-9 Area = 4670 Manually integrated



File name: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d
Client ID: SS79-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 15:51
Retention Time: 19.38
Operator ID: 2730

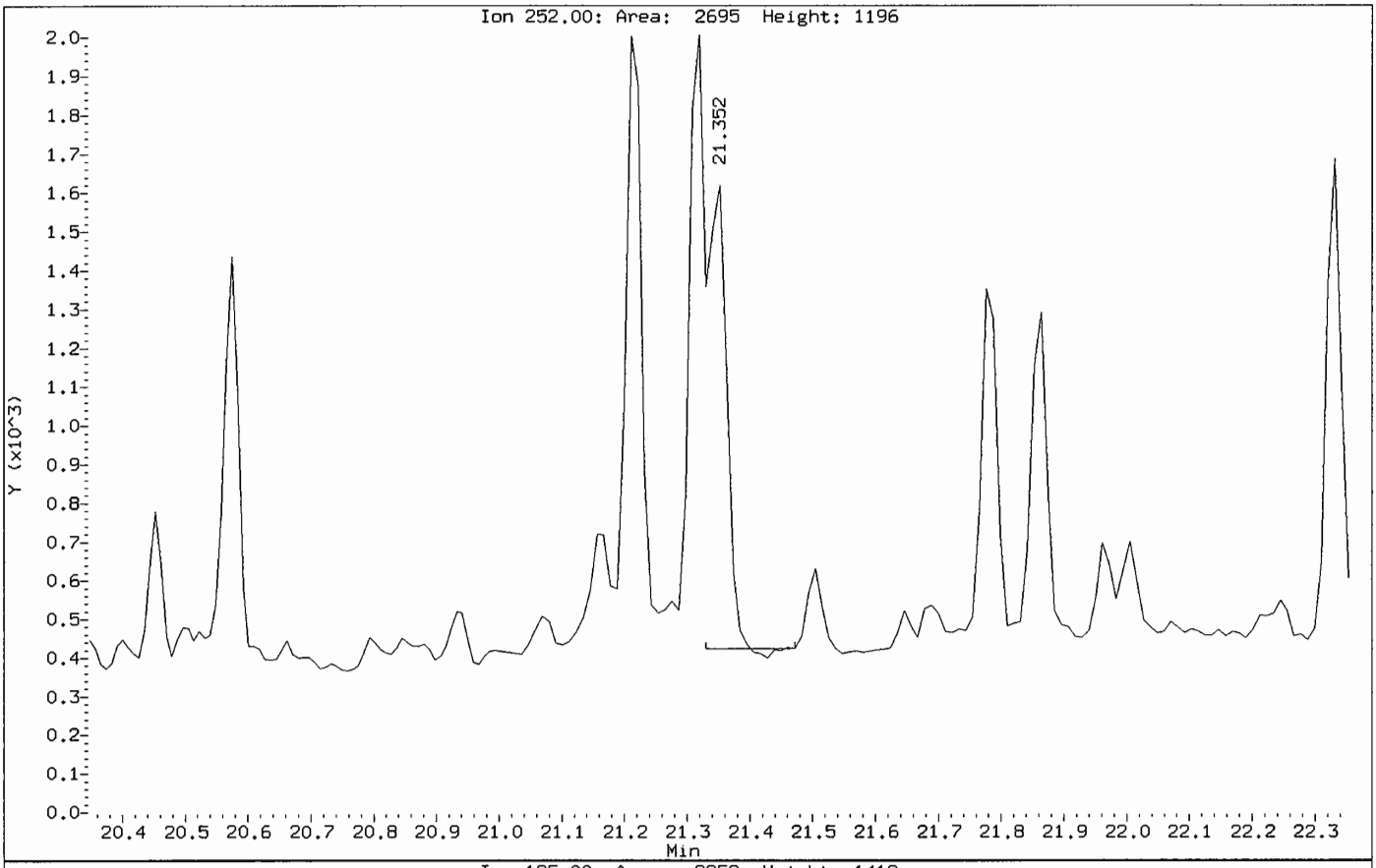
Benzo(k)fluoranthene CAS Number 207-08-9 Area = 2768 Manually integrated

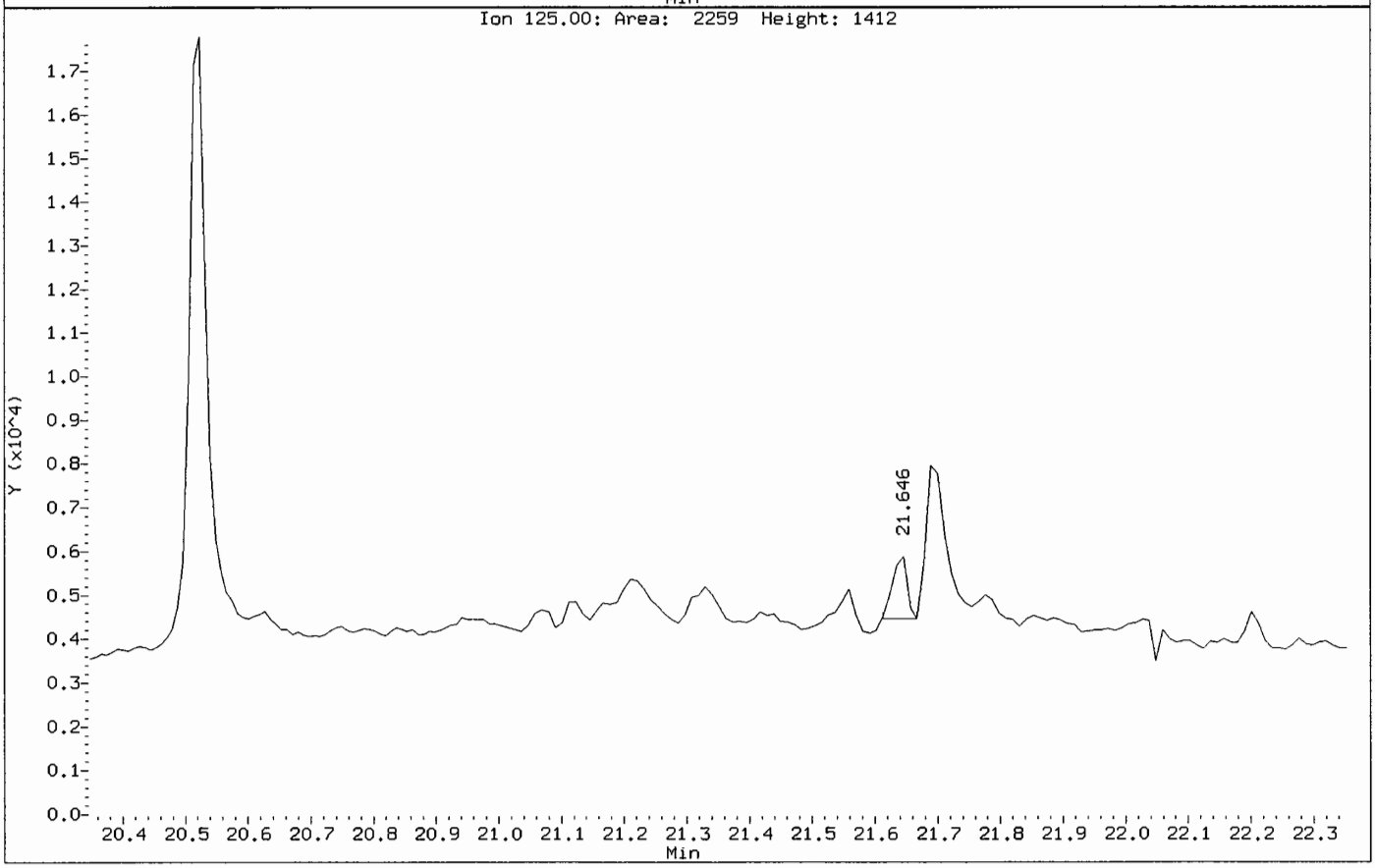


File name: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d
Client ID: SS79-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 15:51
Retention Time: 21.35
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d
Injection Date: 26-MAY-2010 15:51
Instrument: 5972hp66.i
Client Sample ID: SS79-0-1

Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9





Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d

Date : 26-MAY-2010 15:51

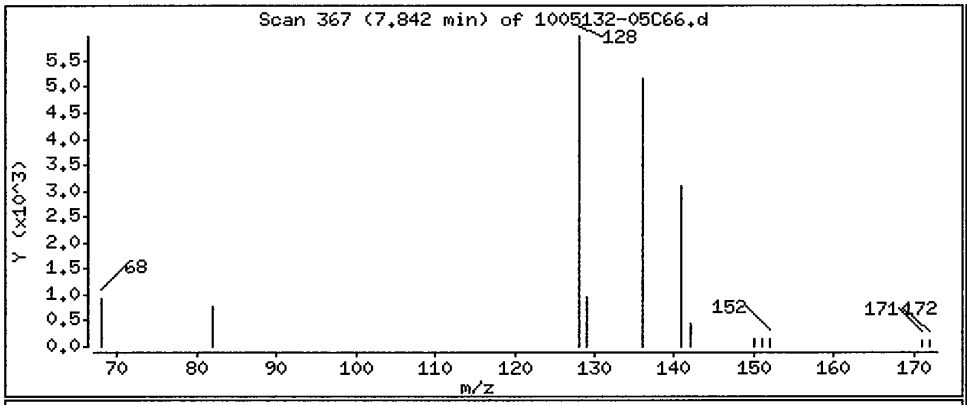
Client ID: SS79-0-1 Instrument: 5972hp66.i

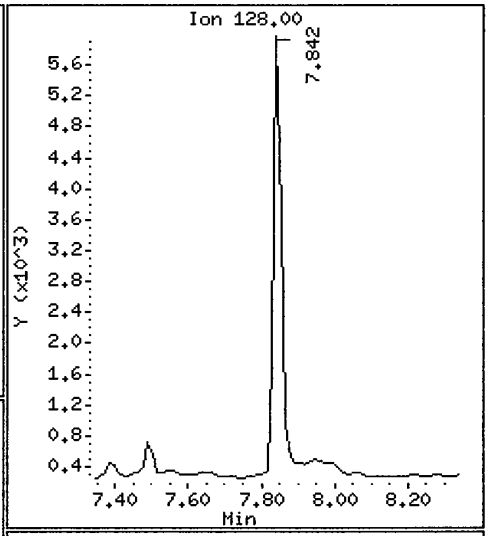
Sample Info: 1005132-05:2730

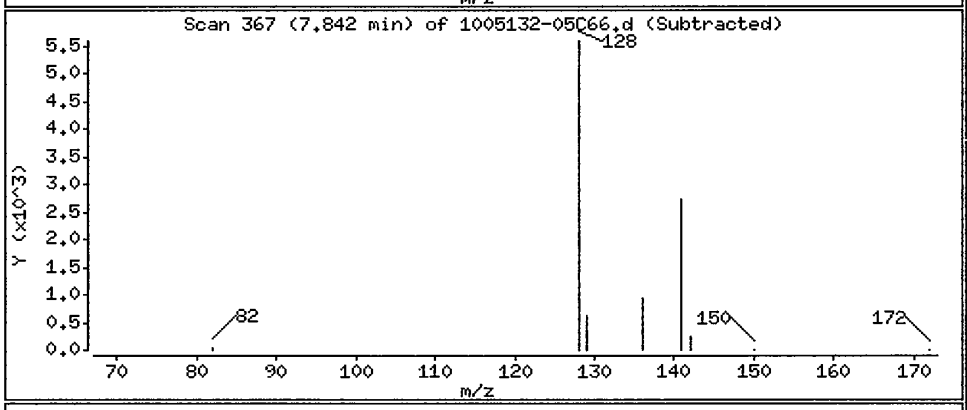
Volume Injected (uL): 2.0 Operator: 2730

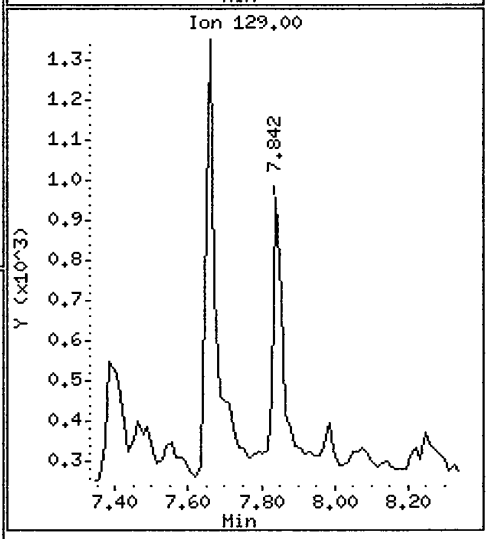
Column phase: Rtx-5MS Column diameter: 0.32

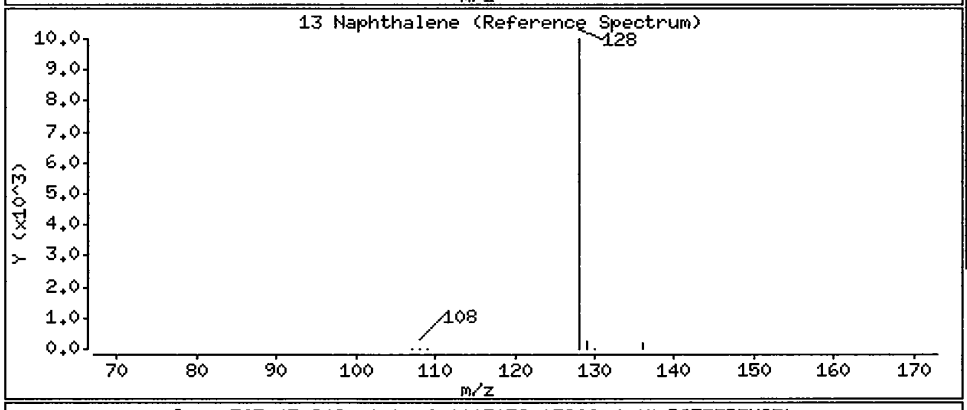
13 Naphthalene Concentration: 1.7 ug/Kg

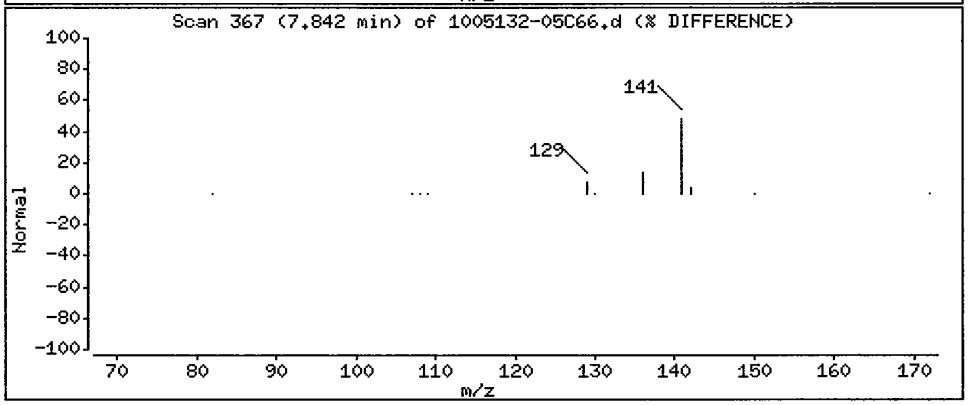












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d

Date : 26-MAY-2010 15:51

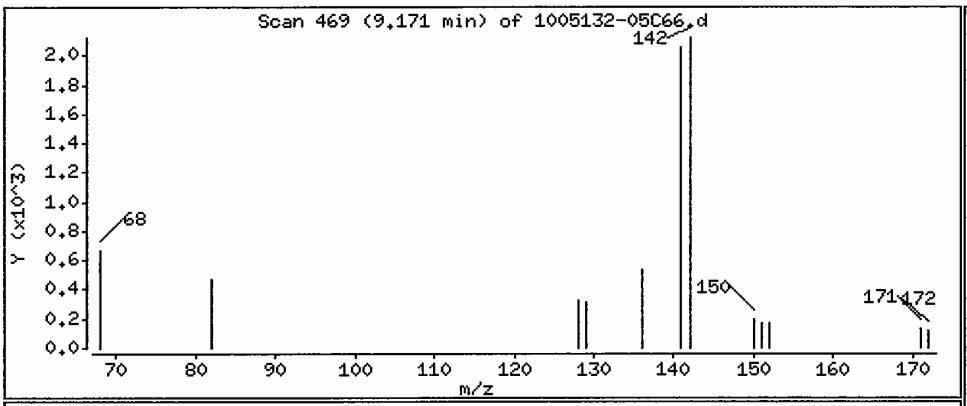
Client ID: SS79-0-1 Instrument: 5972hp66.i

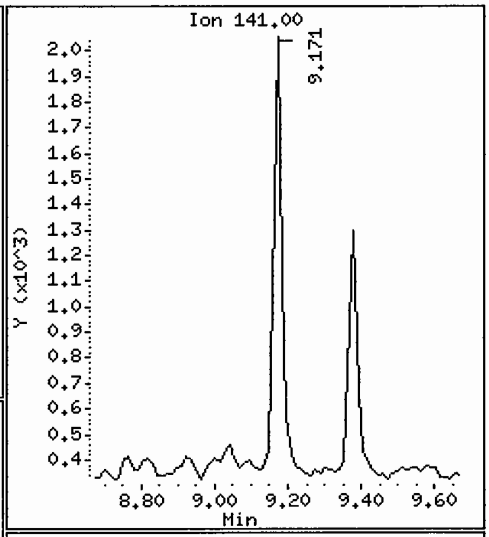
Sample Info: 1005132-05:2730

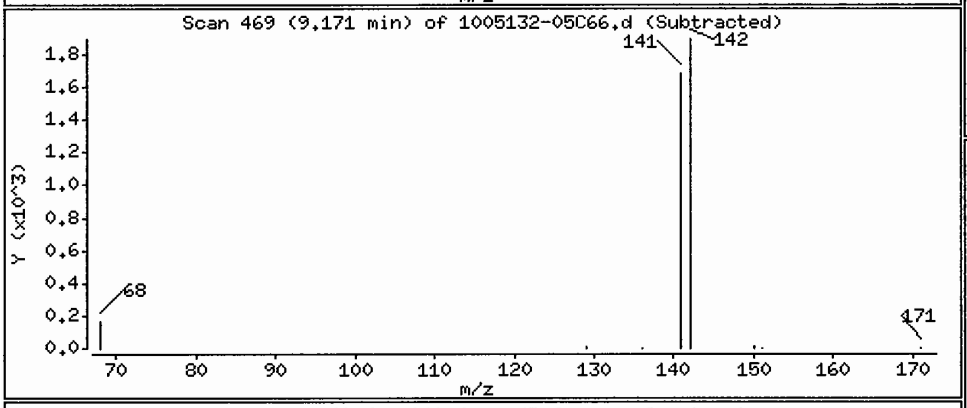
Volume Injected (uL): 2.0 Operator: 2730

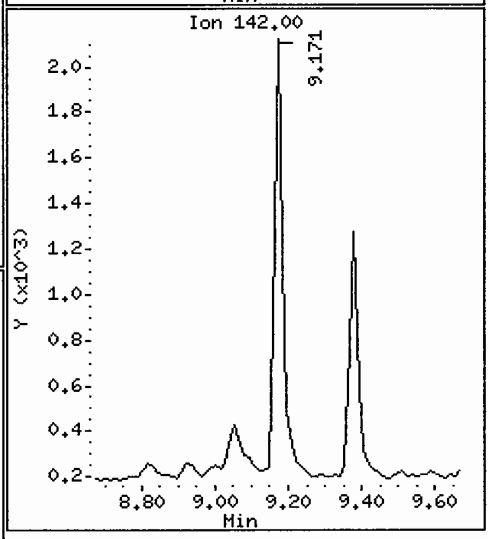
Column phase: Rtx-5MS Column diameter: 0.32

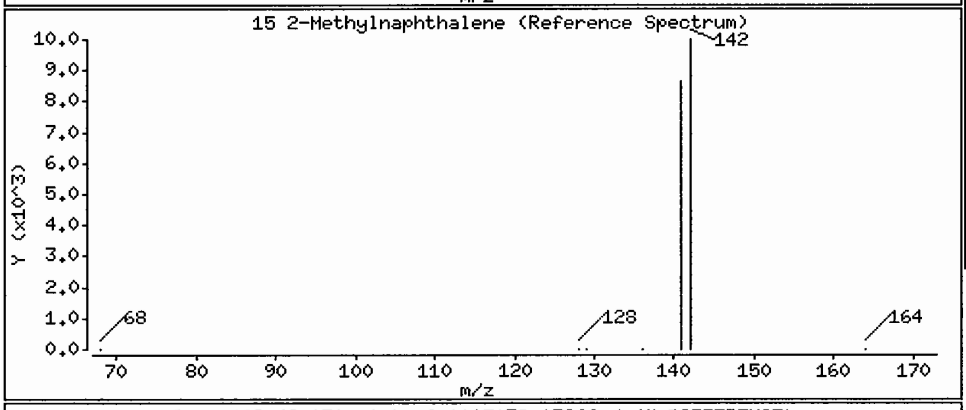
15 2-Methylnaphthalene Concentration: 0.92 ug/Kg

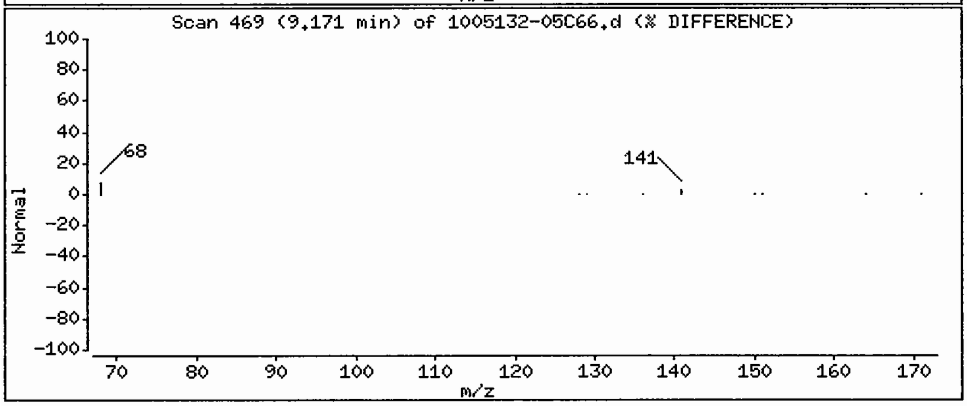












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d

Date : 26-MAY-2010 15:51

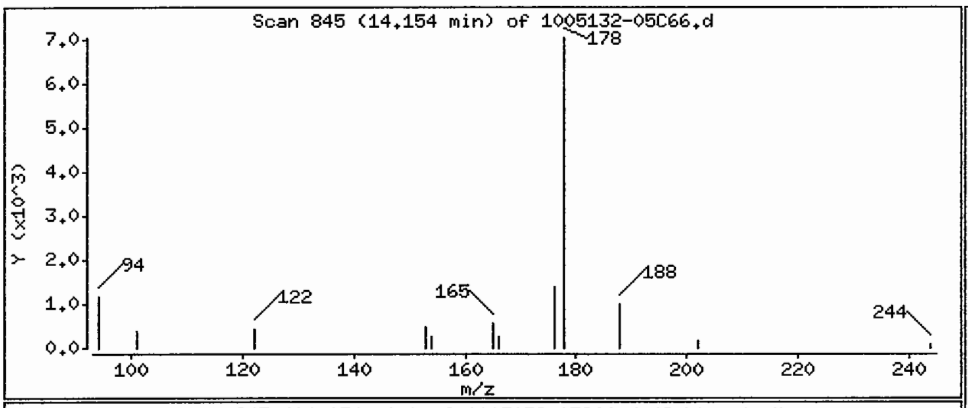
Client ID: SS79-0-1 Instrument: 5972hp66.i

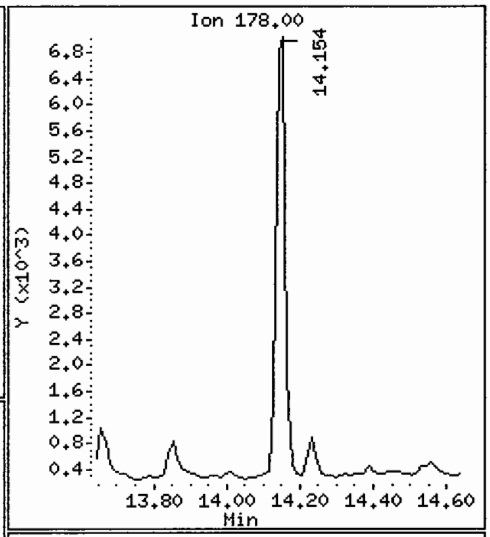
Sample Info: 1005132-05:2730

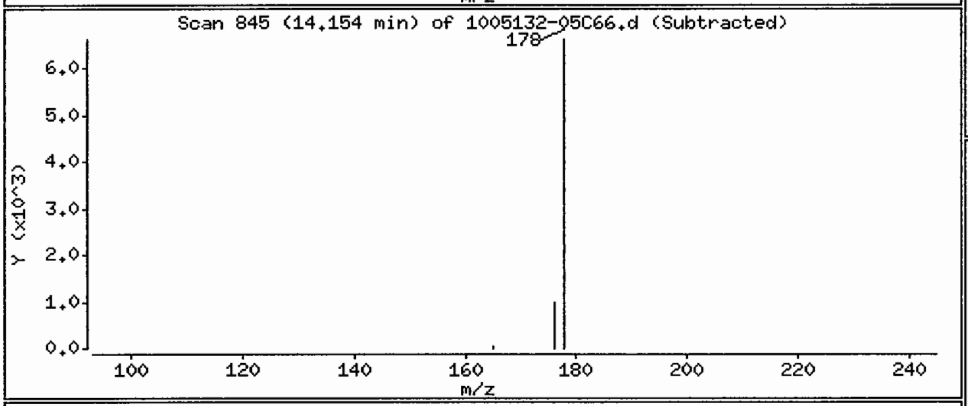
Volume Injected (uL): 2.0 Operator: 2730

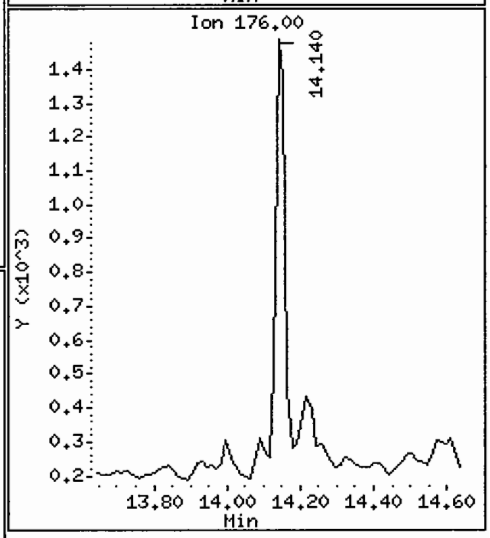
Column phase: Rtx-5MS Column diameter: 0.32

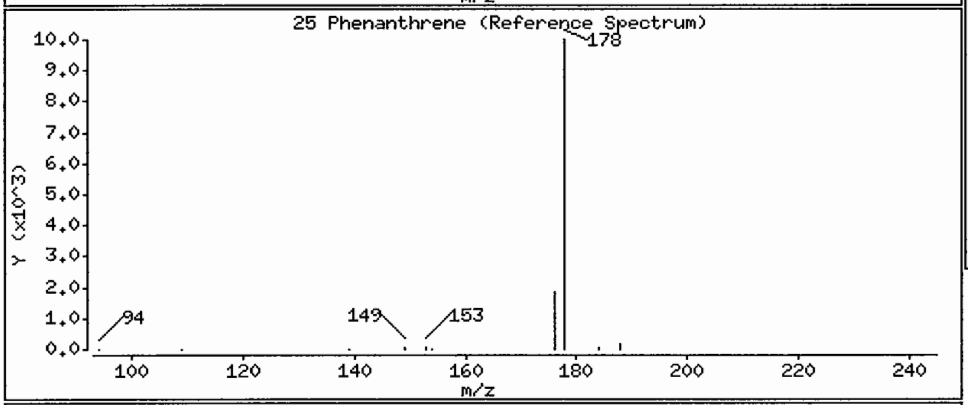
25 Phenanthrene Concentration: 1.8 ug/Kg

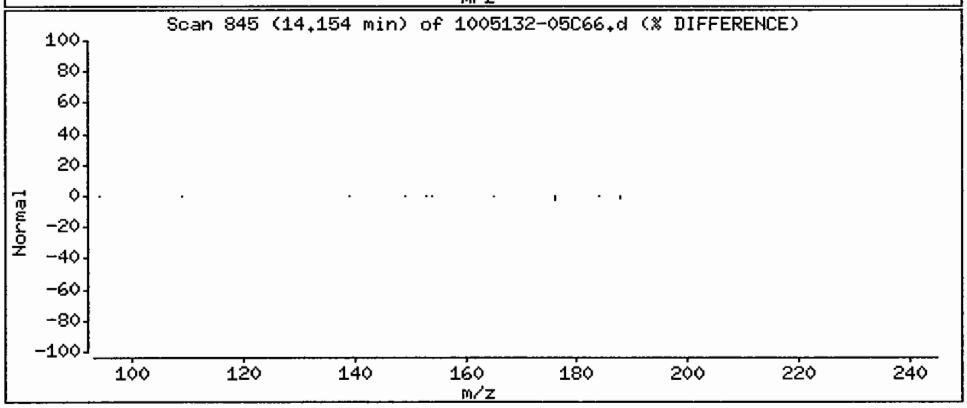












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d

Date : 26-MAY-2010 15:51

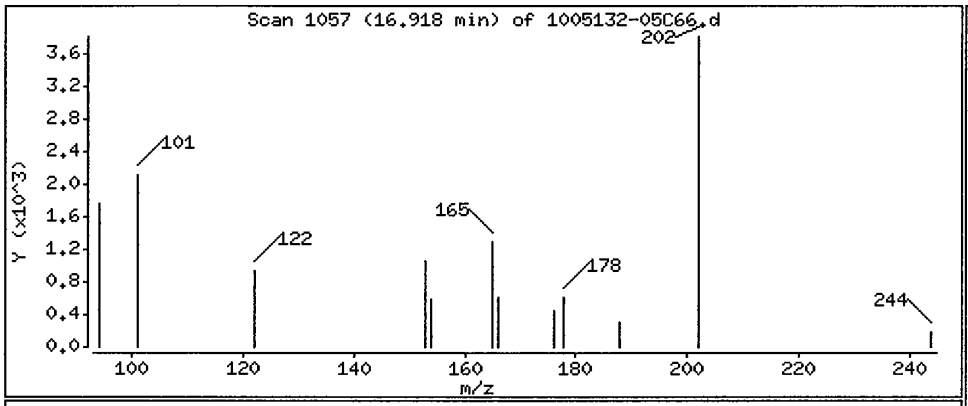
Client ID: SS79-0-1 Instrument: 5972hp66.i

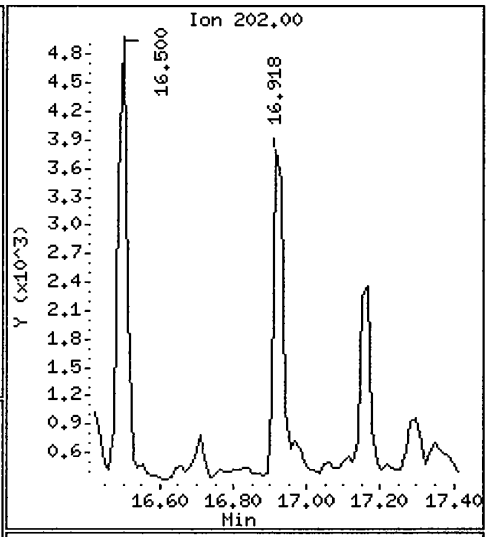
Sample Info: 1005132-05:2730

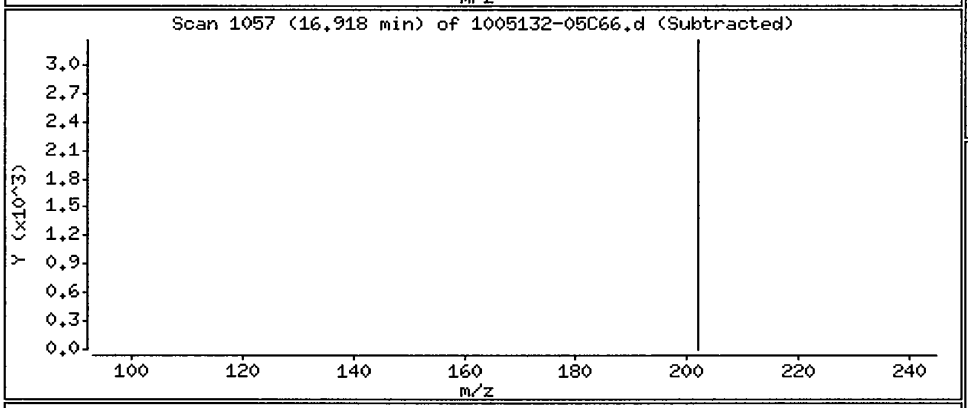
Volume Injected (uL): 2.0 Operator: 2730

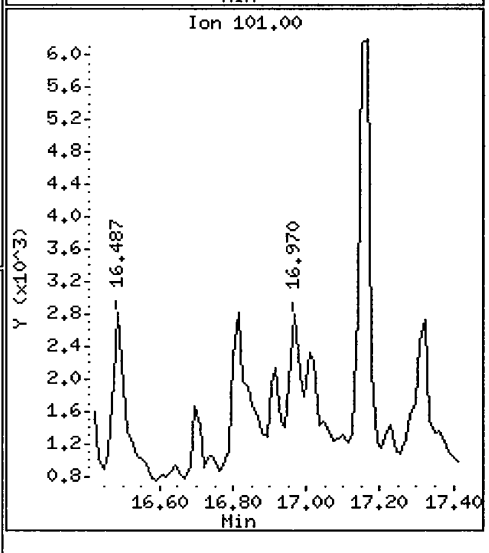
Column phase: Rtx-5MS Column diameter: 0.32

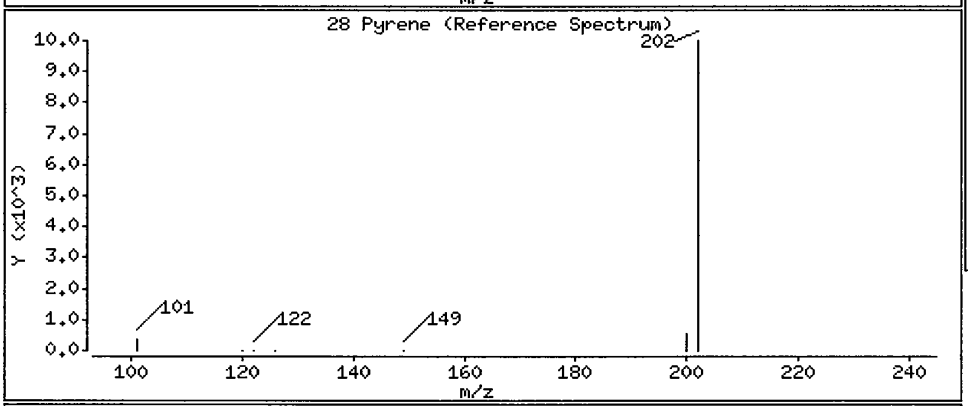
28 Pyrene Concentration: 0.76 ug/Kg

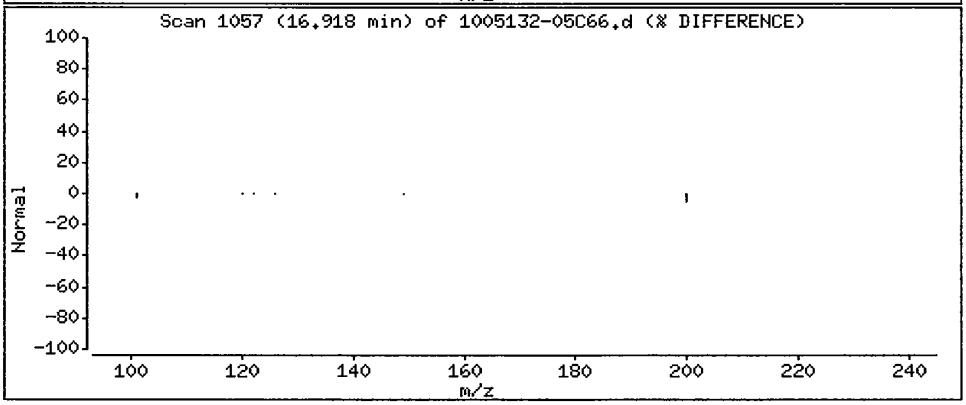












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d

Date : 26-MAY-2010 15:51

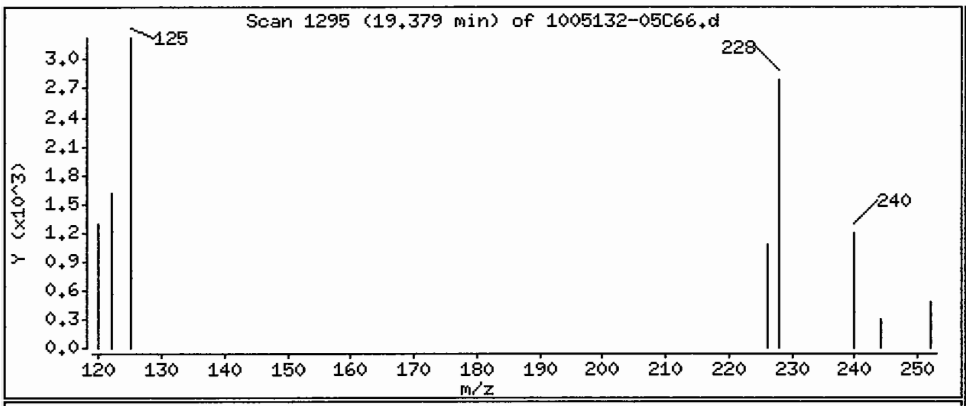
Client ID: SS79-0-1 Instrument: 5972hp66.i

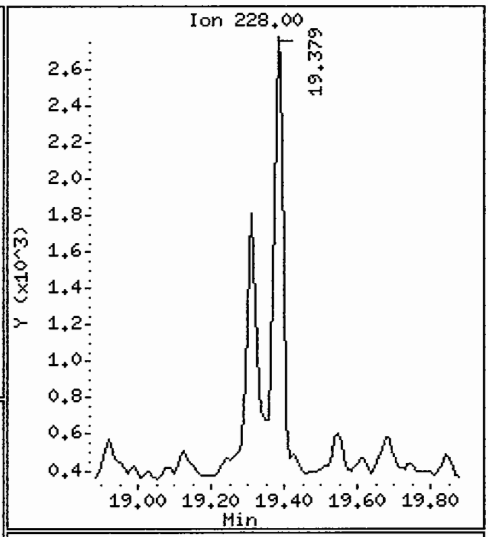
Sample Info: 1005132-05:2730

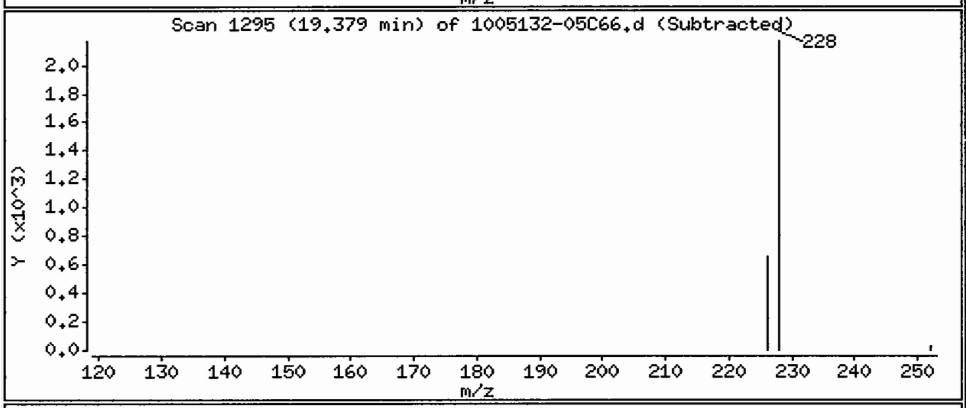
Volume Injected (uL): 2.0 Operator: 2730

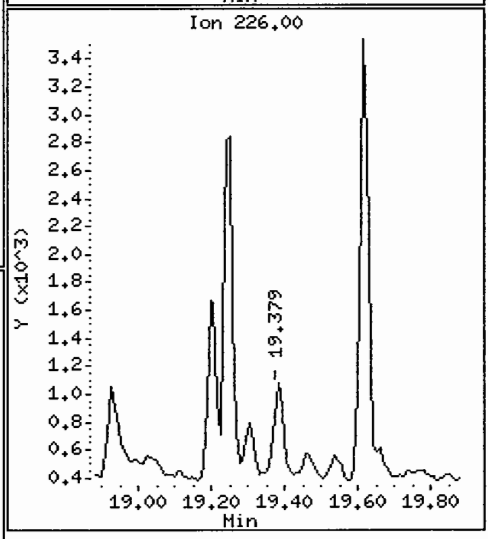
Column phase: Rtx-5MS Column diameter: 0.32

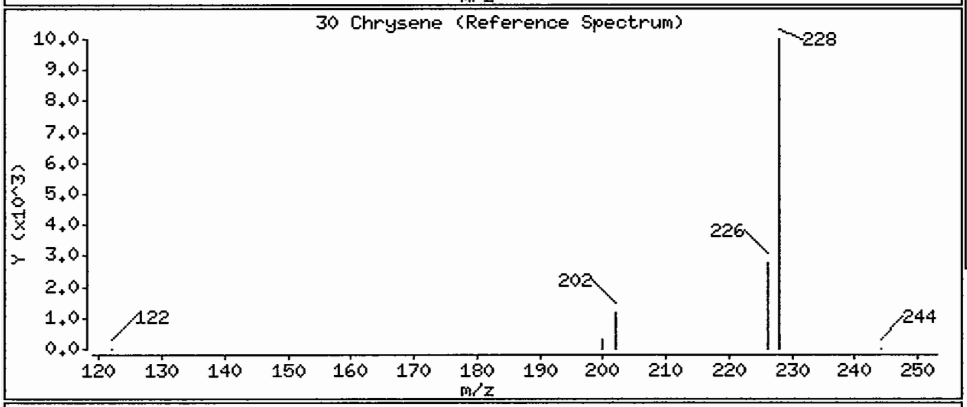
30 Chrysene Concentration: 0.67 ug/Kg

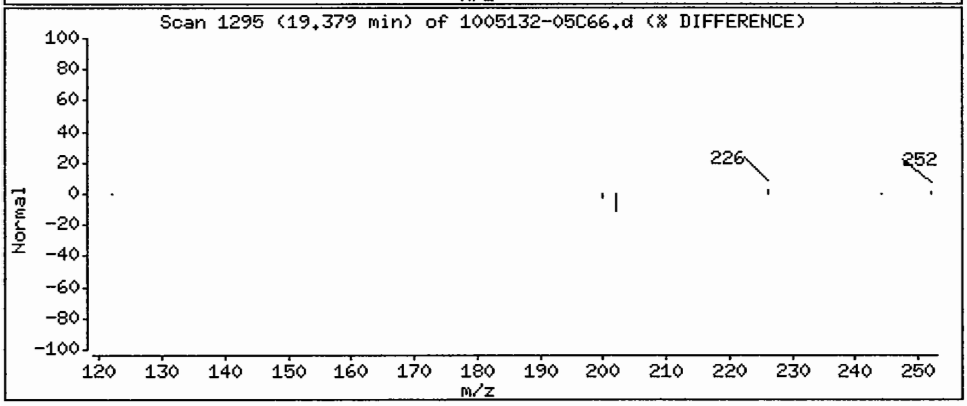












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-05C66.d

Date : 26-MAY-2010 15:51

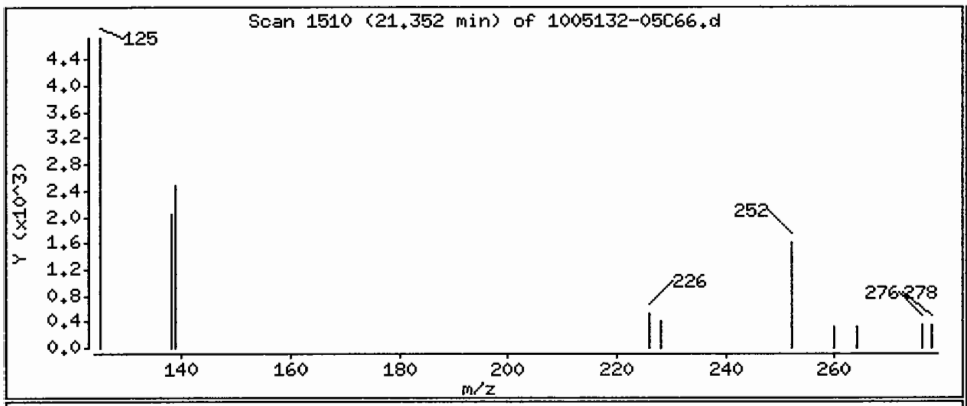
Client ID: SS79-0-1 Instrument: 5972hp66.i

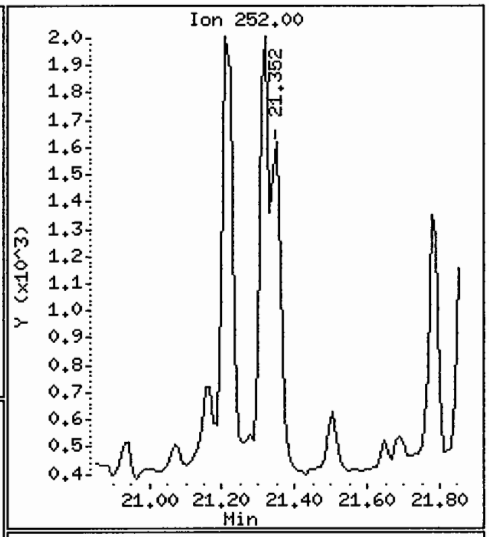
Sample Info: 1005132-05:2730

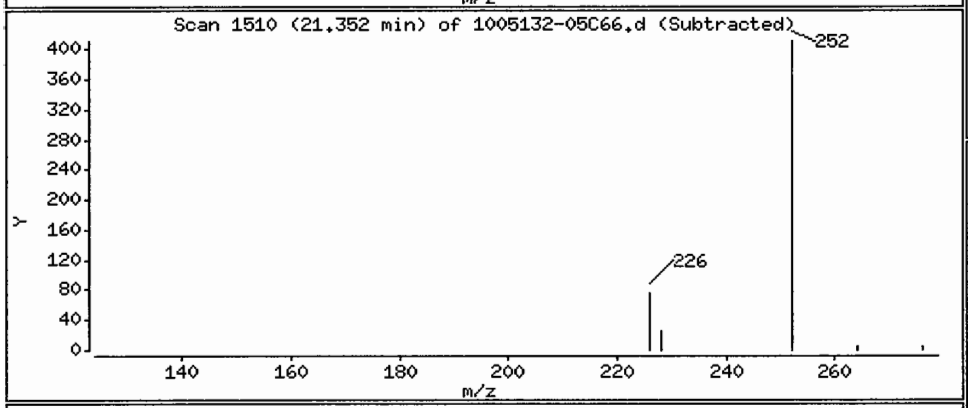
Volume Injected (uL): 2.0 Operator: 2730

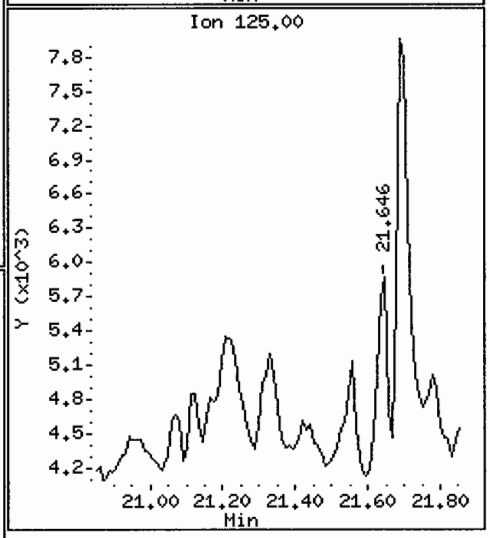
Column phase: Rtx-5MS Column diameter: 0.32

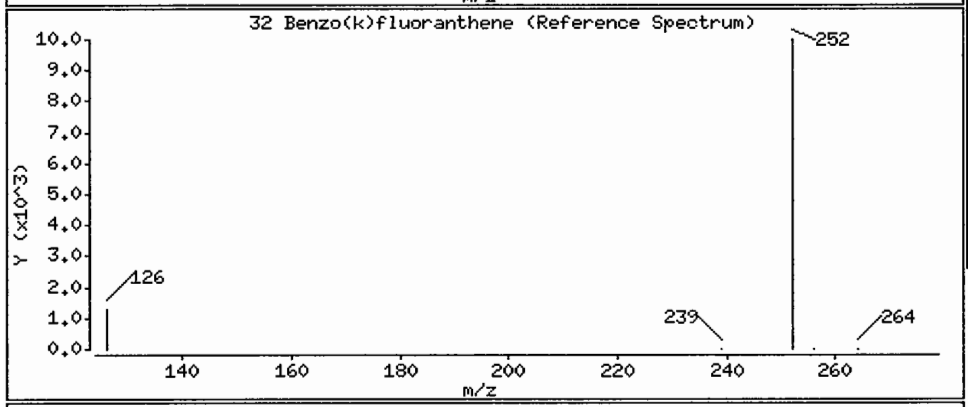
32 Benzo(k)fluoranthene Concentration: 0.52 ug/Kg

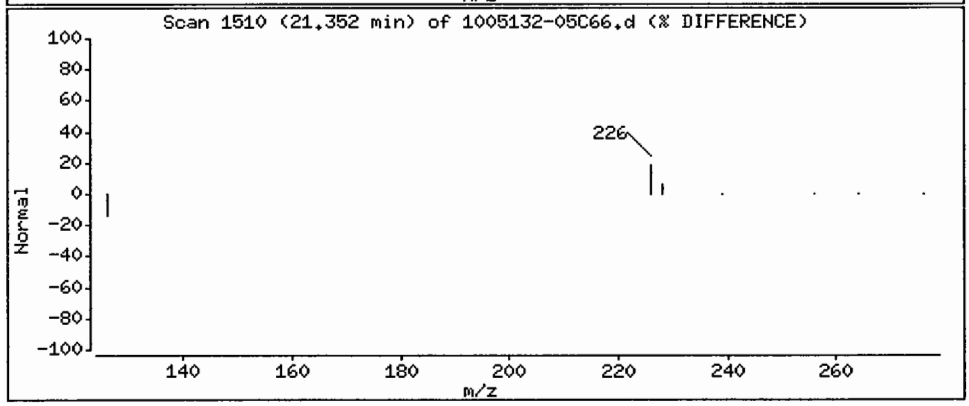












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS81-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-15A66

Level: (low/med) LOW Date Received: 05/21/10

% Moisture: 3 decanted: (Y/N) N Date Extracted:05/24/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/01/10

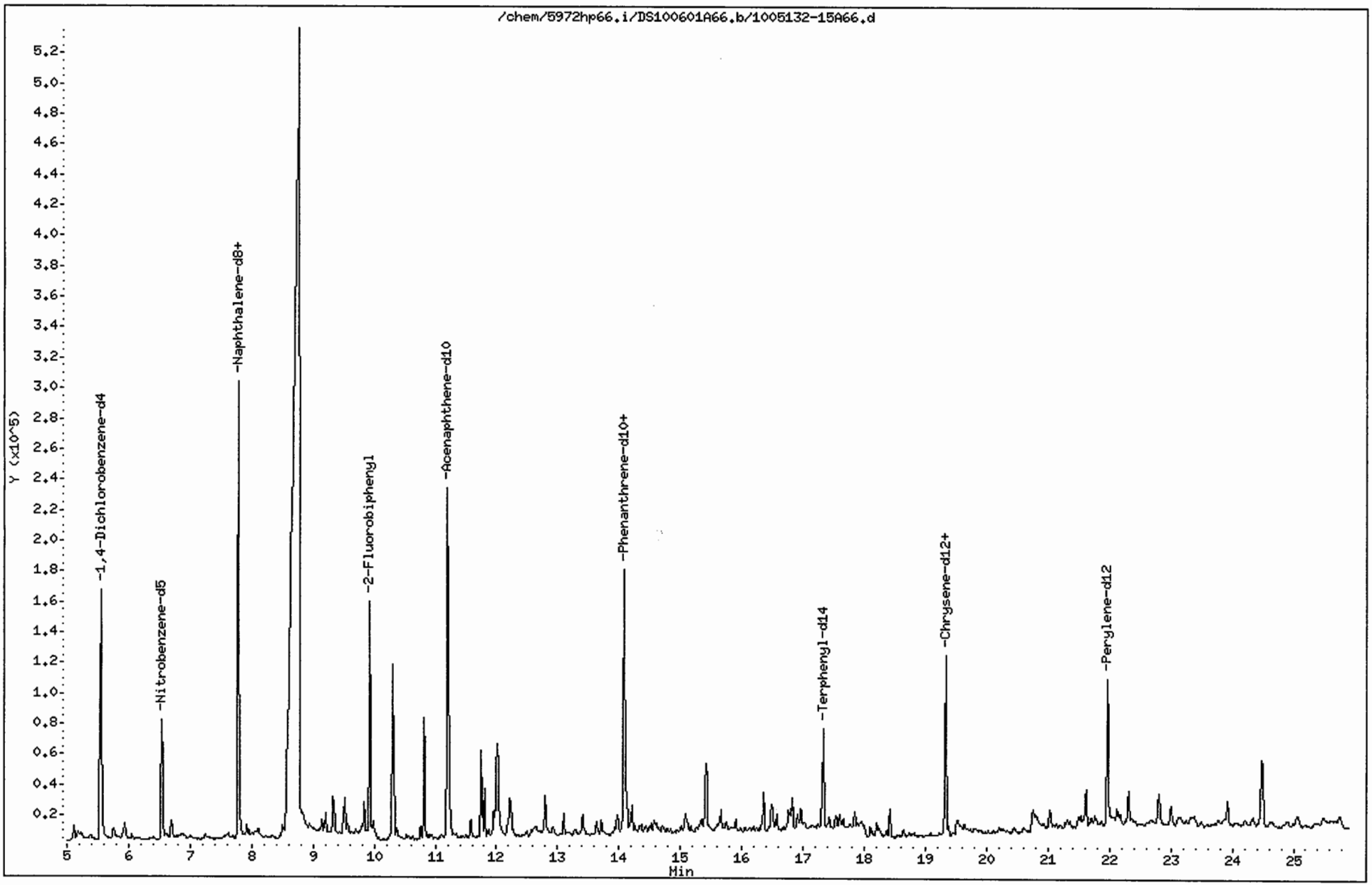
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.0	J
91-57-6	2-Methylnaphthalene	8.6	U
208-96-8	Acenaphthylene	8.6	U
83-32-9	Acenaphthene	8.6	U
86-73-7	Fluorene	8.6	U
85-01-8	Phenanthrene	2.5	J
120-12-7	Anthracene	8.6	U
206-44-0	Fluoranthene	2.4	J
129-00-0	Pyrene	1.8	J
56-55-3	Benzo(a)anthracene	0.86	J
218-01-9	Chrysene	1.3	J
205-99-2	Benzo(b)fluoranthene	1.4	J
207-08-9	Benzo(k)fluoranthene	0.84	J
50-32-8	Benzo(a)pyrene	0.76	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.74	J
53-70-3	Dibenzo(a,h)anthracene	8.6	U
191-24-2	Benzo(g,h,i)perylene	0.59	J

Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d
Date : 01-JUN-2010 15:45
Client ID: SS81-0-1
Sample Info: 1005132-15:2650
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2650
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d
Report Date: 07-Jun-2010 11:26

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d
Lab Smp Id: 1005132-15 Client Smp ID: SS81-0-1
Inj Date : 01-JUN-2010 15:45
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 1005132-15:2650
Misc Info : SS81-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601A66.b/SIM_8270Cv2DOD.m
Meth Date : 07-Jun-2010 11:24 mead Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	3.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
*	1 1,4-Dichlorobenzene-d4	152	5.546	5.531	(1.000)	114031	2.00000	(a)
*	2 Naphthalene-d8	136	7.775	7.773	(1.000)	410174	2.00000	(a)
*	3 Acenaphthene-d10	164	11.192	11.192	(1.000)	167821	2.00000	(a)
*	4 Phenanthrene-d10	188	14.075	14.074	(1.000)	247911	2.00000	(a)
*	5 Chrysene-d12	240	19.336	19.328	(1.000)	160407	2.00000	(a)
*	6 Perylene-d12	264	21.972	21.960	(1.000)	125833	2.00000	(a)
$	9 Nitrobenzene-d5	82	6.537	6.534	(0.841)	89486	0.98044	17
$	10 2-Fluorobiphenyl	172	9.926	9.923	(0.887)	139321	0.79555	14
$	12 Terphenyl-d14	244	17.335	17.320	(0.897)	83806	1.43792	25(R)
	13 Naphthalene	128	7.815	7.812	(1.005)	15421	0.06078	1.0(a)
	15 2-Methylnaphthalene	141	Compound Not Detected.					
	17 Acenaphthylene	152	Compound Not Detected.					
	18 Acenaphthene	154	Compound Not Detected.					

RM 6/8/10

Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d
Report Date: 07-Jun-2010 11:26

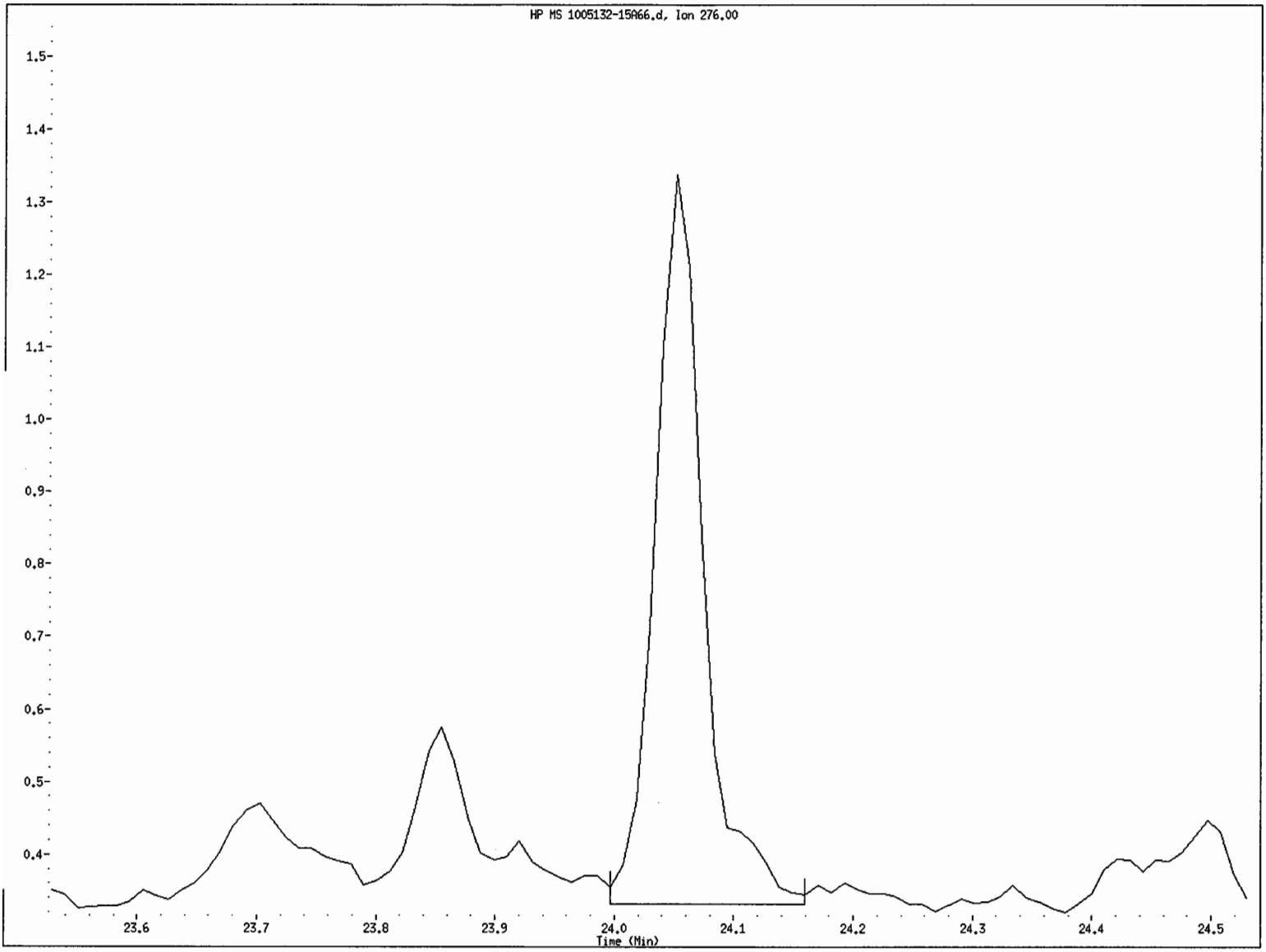
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.127	14.126	(1.004)	22766	0.14727	2.5(a)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	16.487	16.486	(0.853)	14789	0.13904	2.4(a)
28 Pyrene	202	16.904	16.903	(0.874)	12403	0.10708	1.8(a)
29 Benzo(a)anthracene	228	19.301	19.301	(0.998)	4375	0.05017	0.86(a)
30 Chrysene	228	19.379	19.380	(1.002)	7293	0.07722	1.3(a)
31 Benzo(b)fluoranthene	252	21.319	21.318	(0.970)	6533	0.07872	1.4(a)
32 Benzo(k)fluoranthene	252	21.352	21.351	(0.972)	4381	0.04906	0.84(a)
33 Benzo(a)pyrene	252	21.863	21.851	(0.995)	3287	0.04395	0.76(a)
34 Indeno(1,2,3-cd)pyrene	276	24.051	24.028	(1.095)	2857	0.04330	0.74(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.650	24.616	(1.122)	2527	0.03456	0.59(aM)

2
1
RM 6/8/10

QC Flag Legend

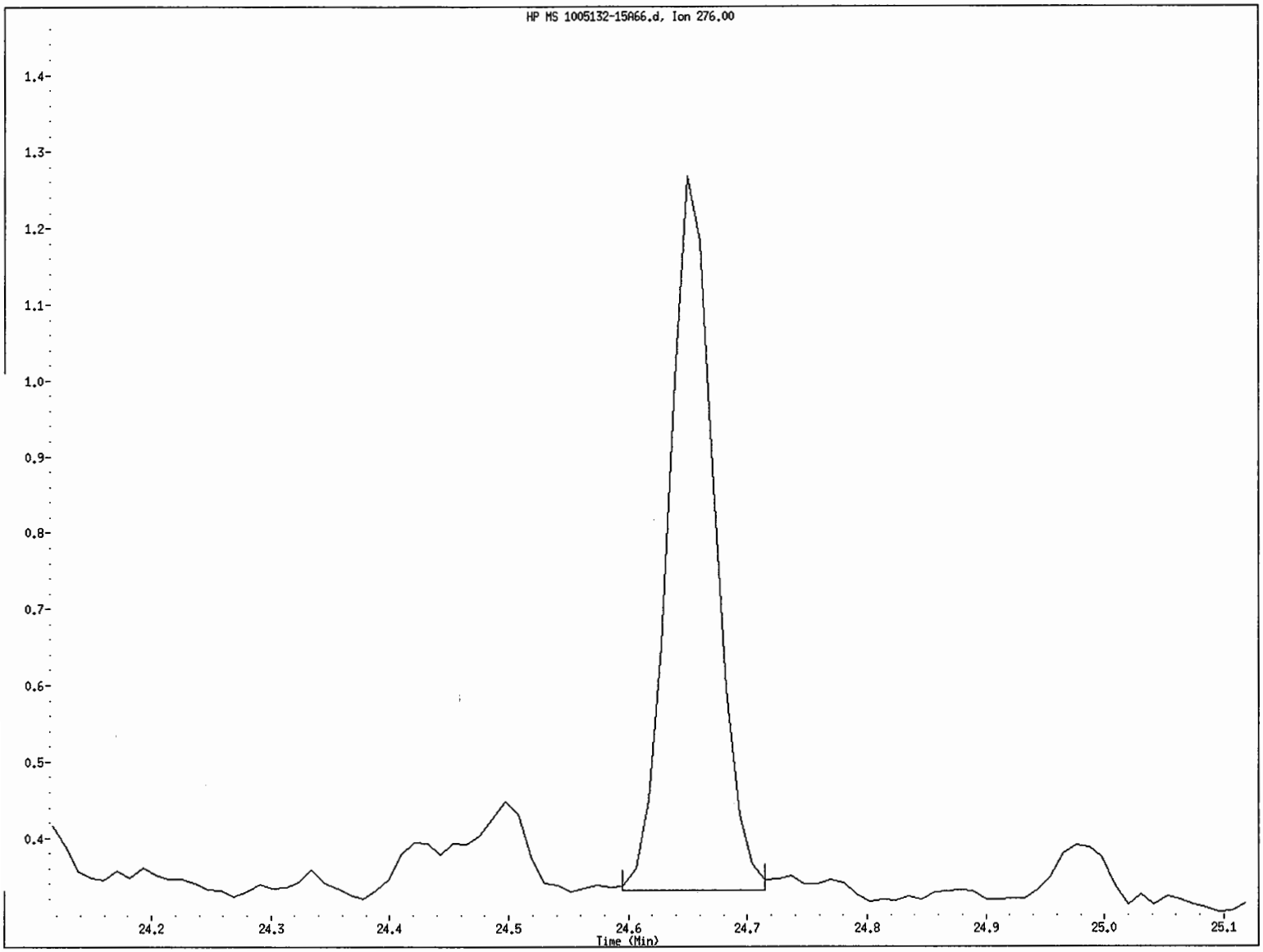
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 2857 Manually integrated



File name: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d
Client ID: SS81-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 15:45
Retention Time: 24.05
Operator ID: 2650

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 2527 Manually integrated



File name: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d
Client ID: SS81-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 01-JUN-2010 15:45
Retention Time: 24.65
Operator ID: 2650

Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

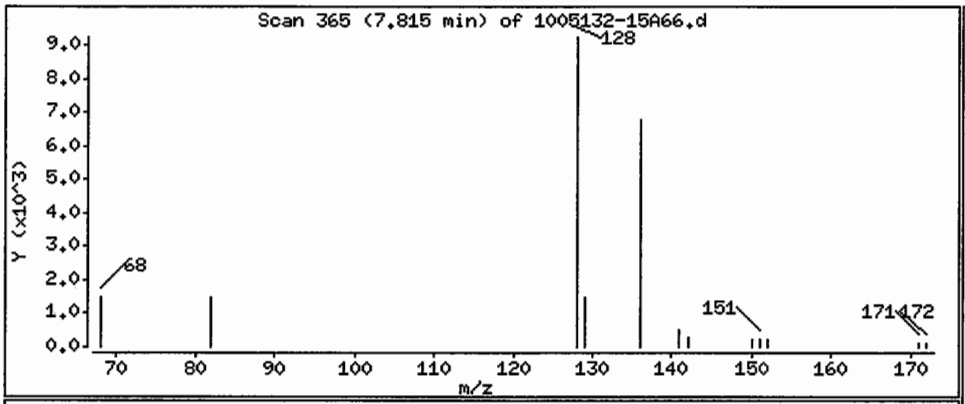
Client ID: SS81-0-1 Instrument: 5972hp66.i

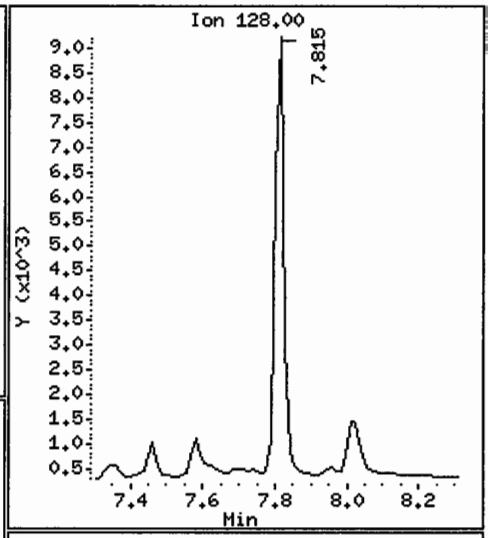
Sample Info: 1005132-15:2650

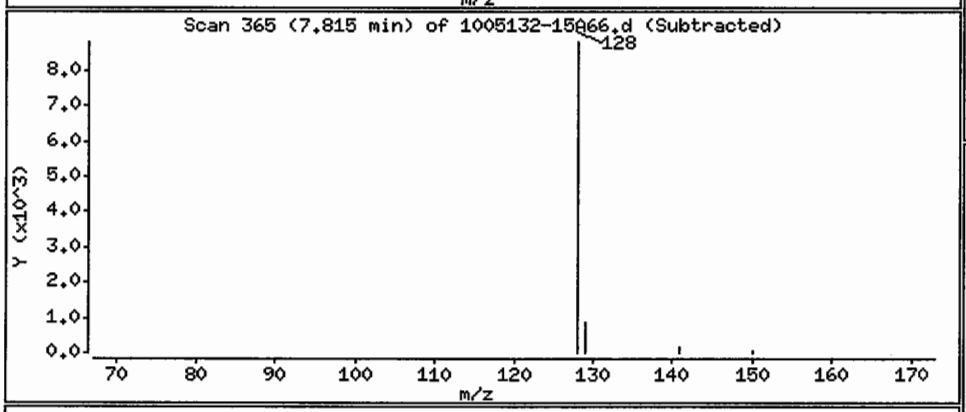
Volume Injected (uL): 2.0 Operator: 2650

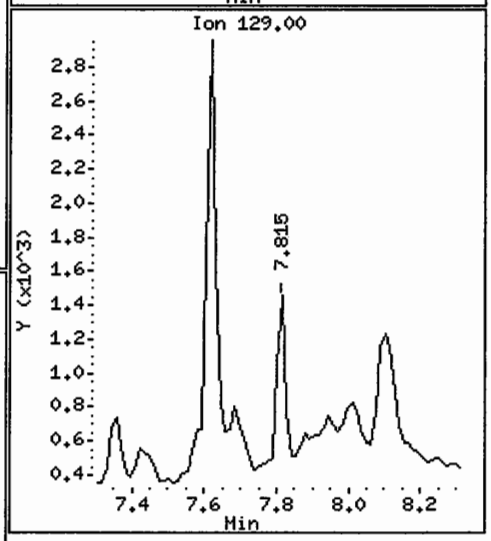
Column phase: Rtx-5MS Column diameter: 0.32

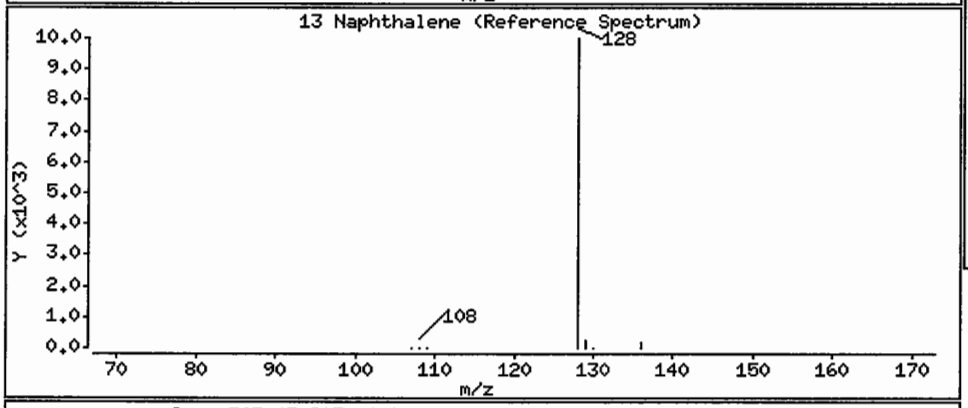
13 Naphthalene Concentration: 1.0 ug/Kg

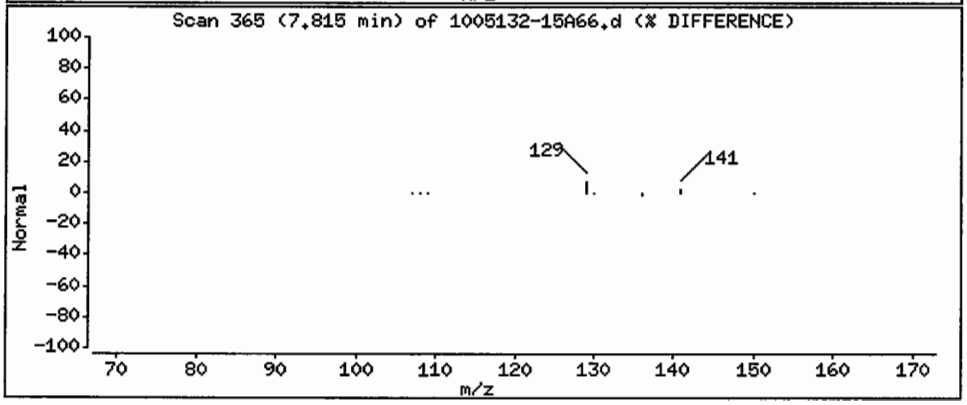












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

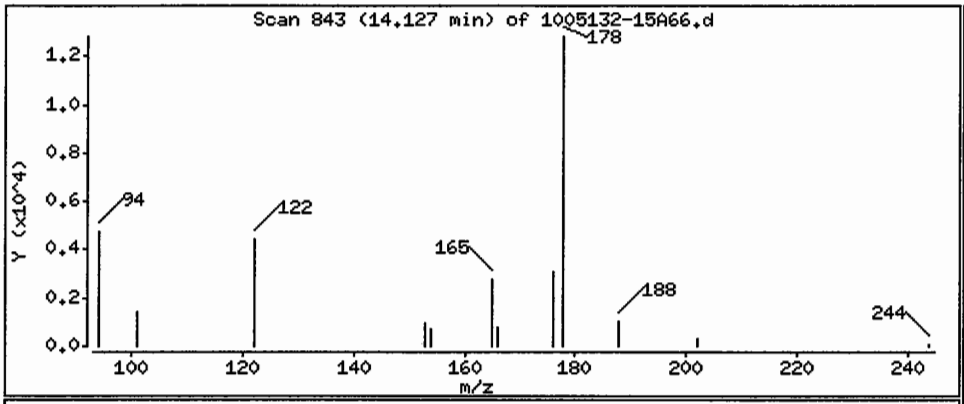
Client ID: SS81-0-1 Instrument: 5972hp66.i

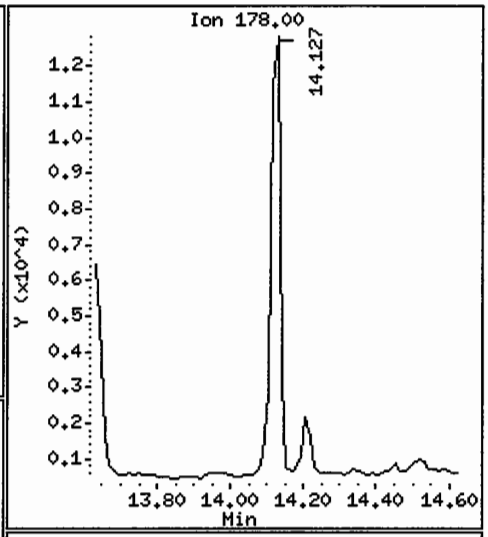
Sample Info: 1005132-15:2650

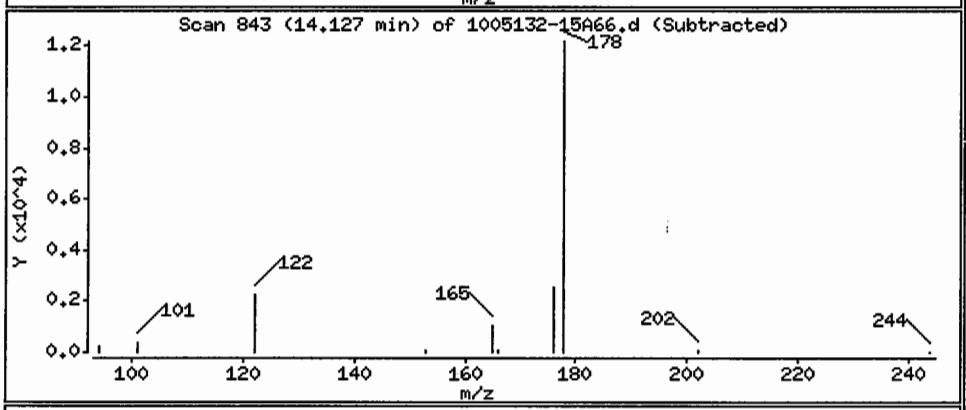
Volume Injected (uL): 2.0 Operator: 2650

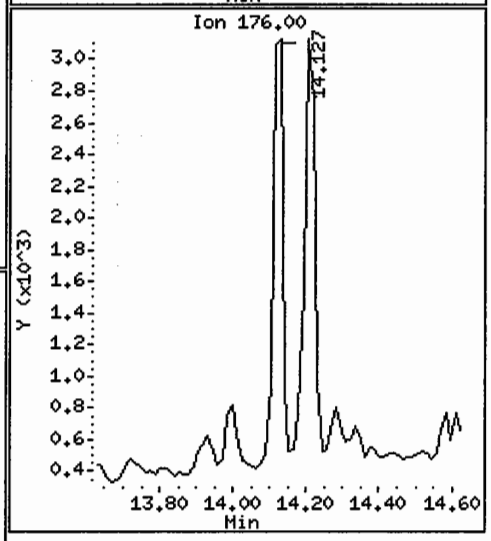
Column phase: Rtx-5MS Column diameter: 0.32

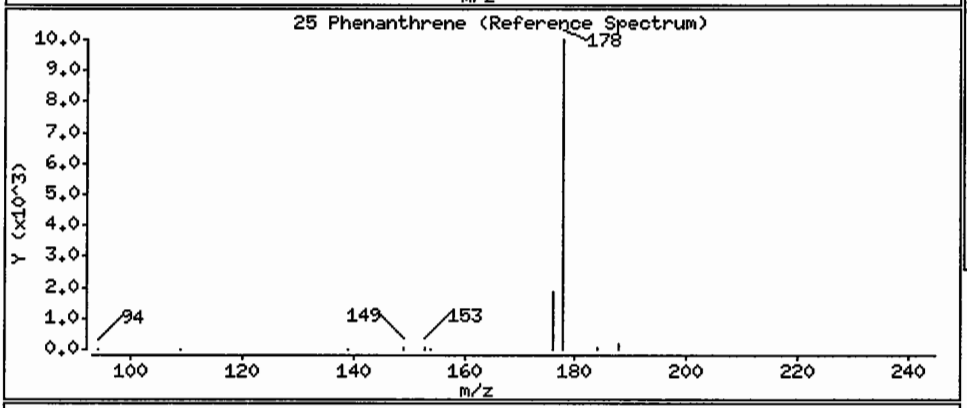
25 Phenanthrene Concentration: 2.5 ug/Kg

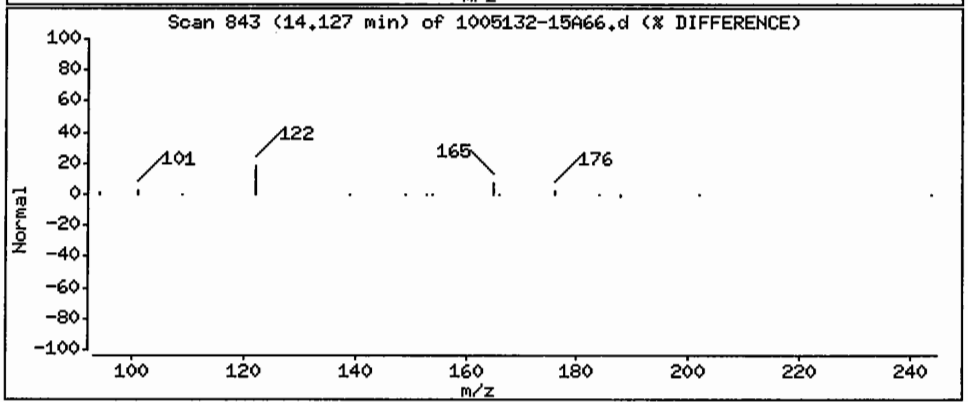












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

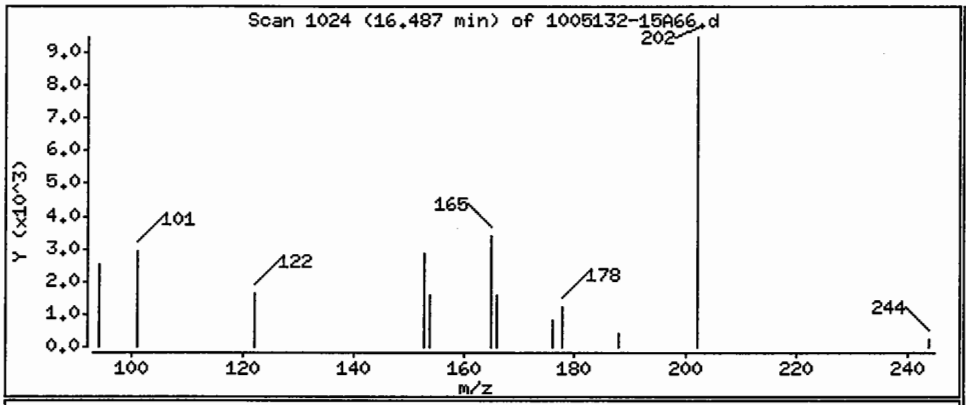
Client ID: SS81-0-1 Instrument: 5972hp66.i

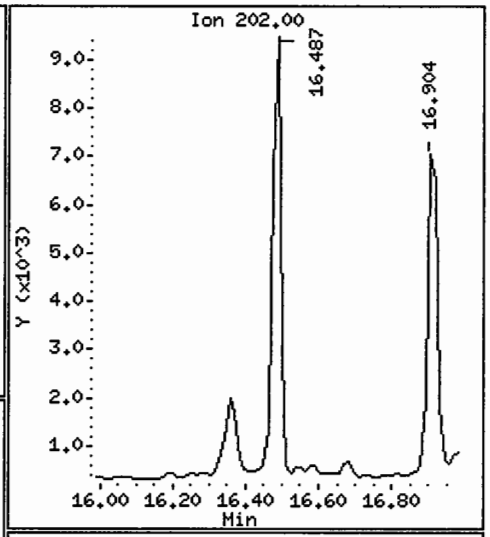
Sample Info: 1005132-15:2650

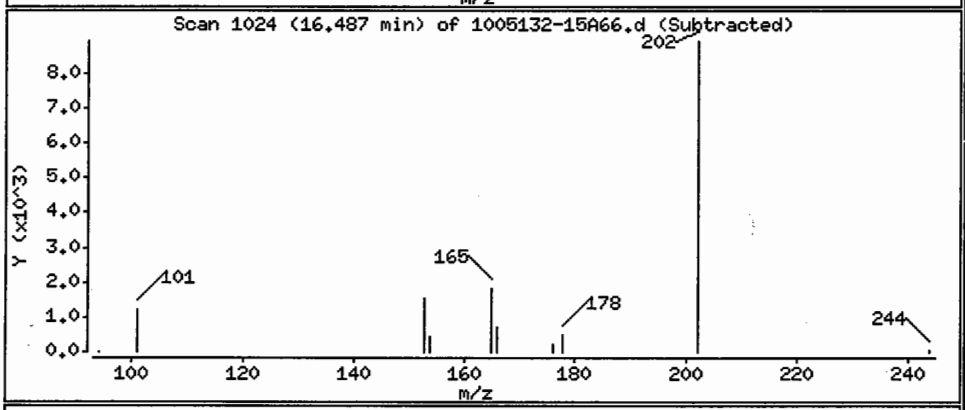
Volume Injected (uL): 2.0 Operator: 2650

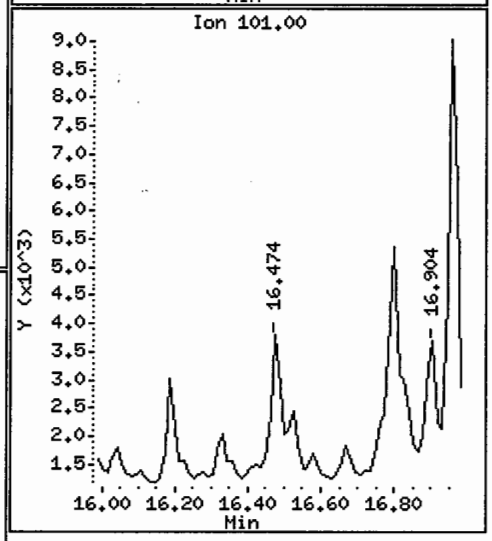
Column phase: Rtx-5MS Column diameter: 0.32

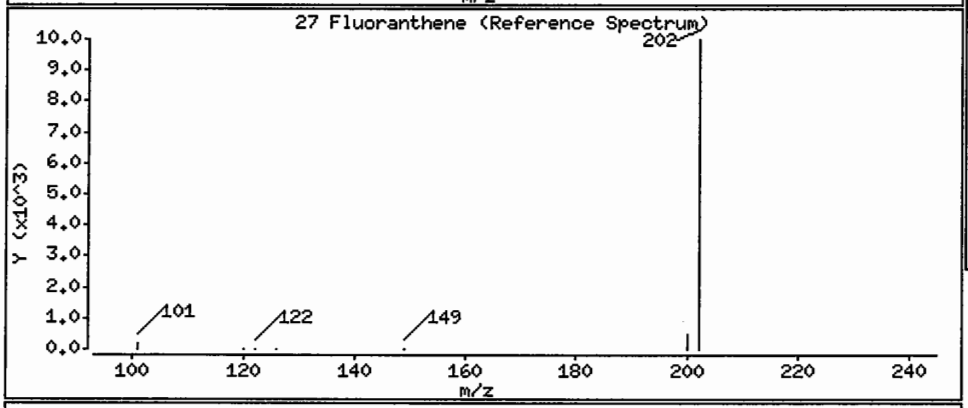
27 Fluoranthene Concentration: 2.4 ug/Kg

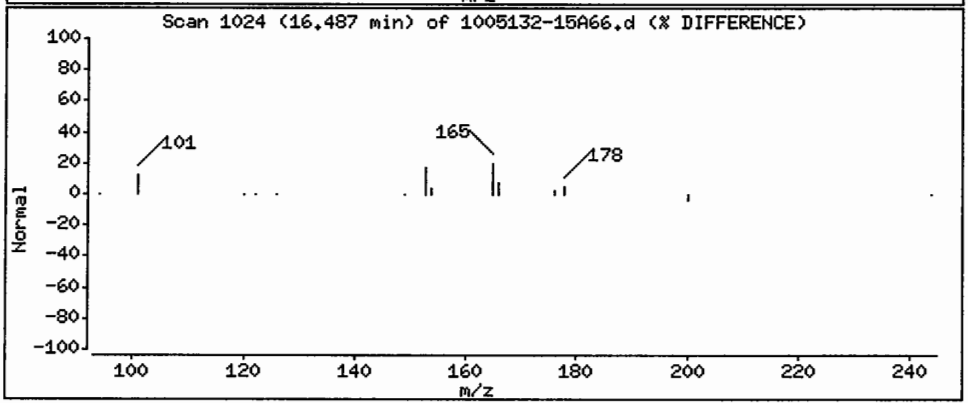












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

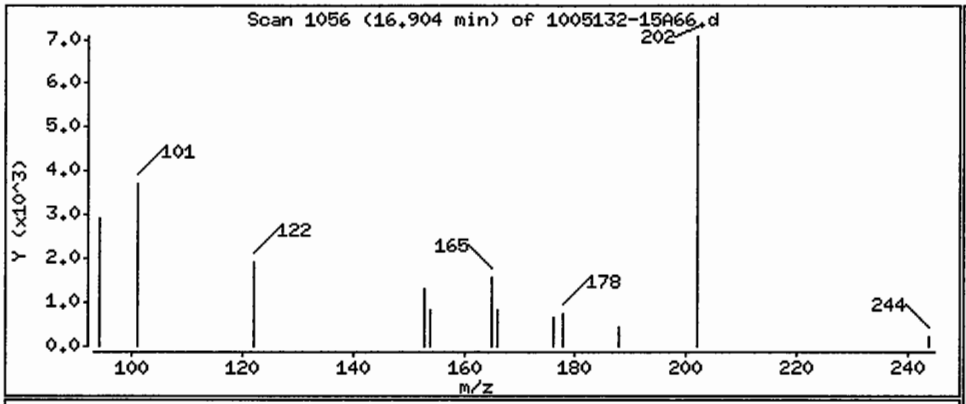
Client ID: SS81-0-1 Instrument: 5972hp66.i

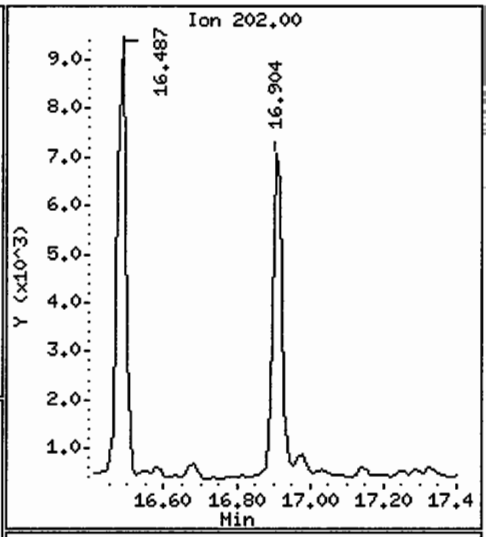
Sample Info: 1005132-15:2650

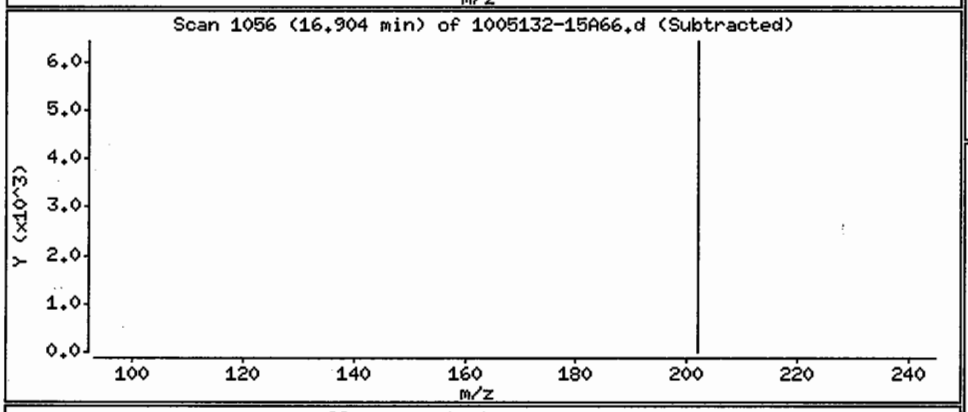
Volume Injected (uL): 2.0 Operator: 2650

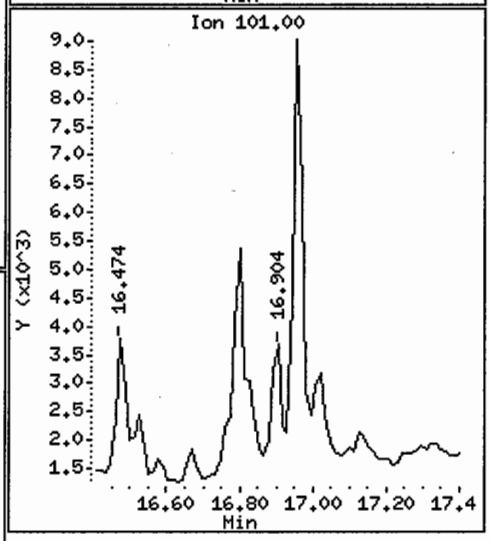
Column phase: Rtx-5MS Column diameter: 0.32

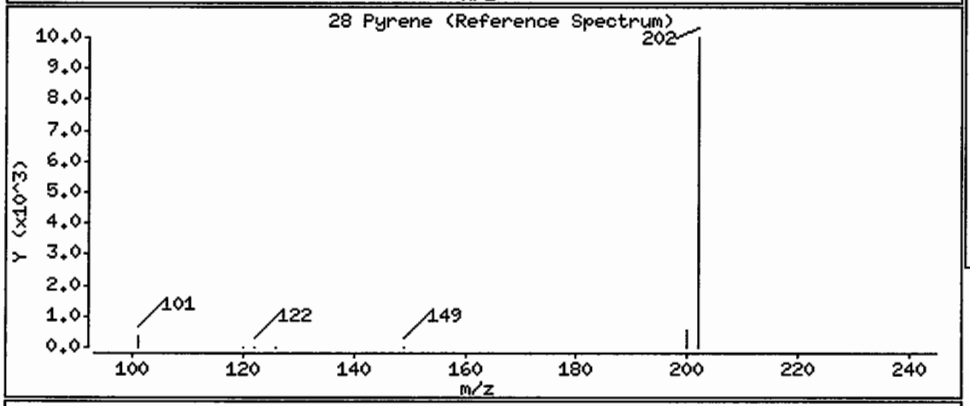
28 Pyrene Concentration: 1.8 ug/Kg

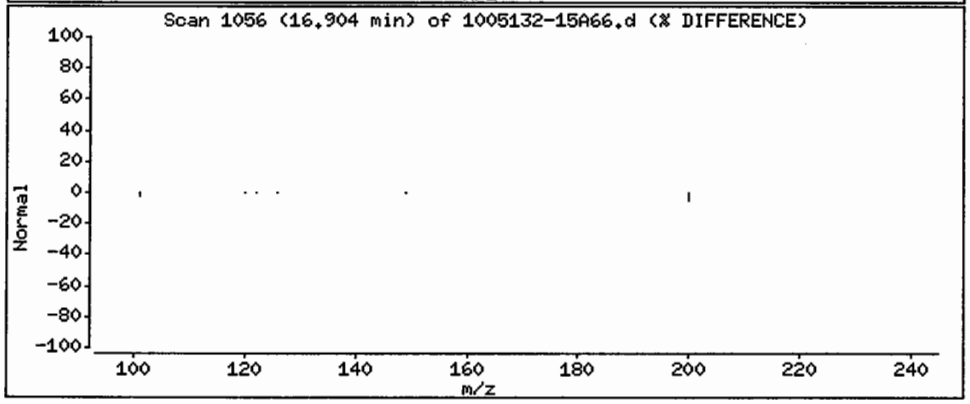












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

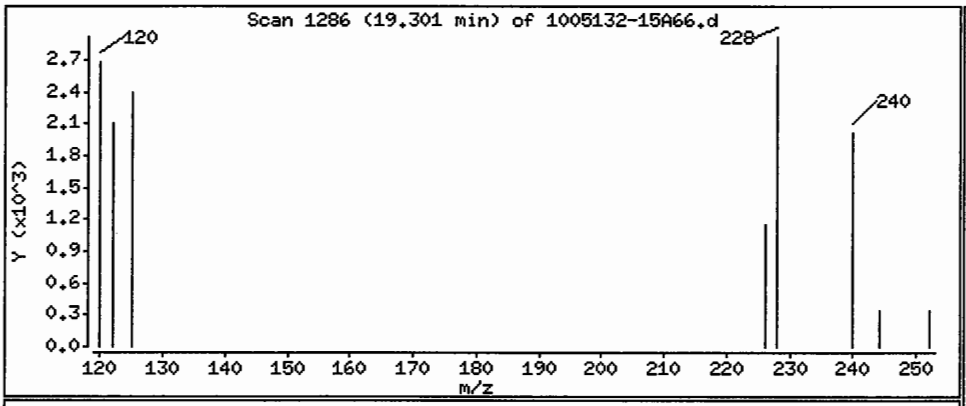
Client ID: SS81-0-1 Instrument: 5972hp66.i

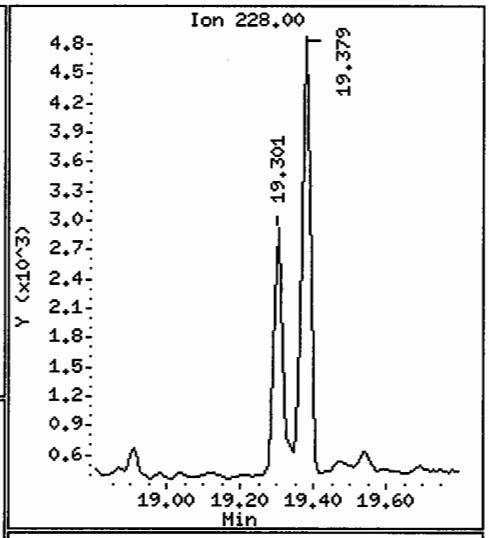
Sample Info: 1005132-15:2650

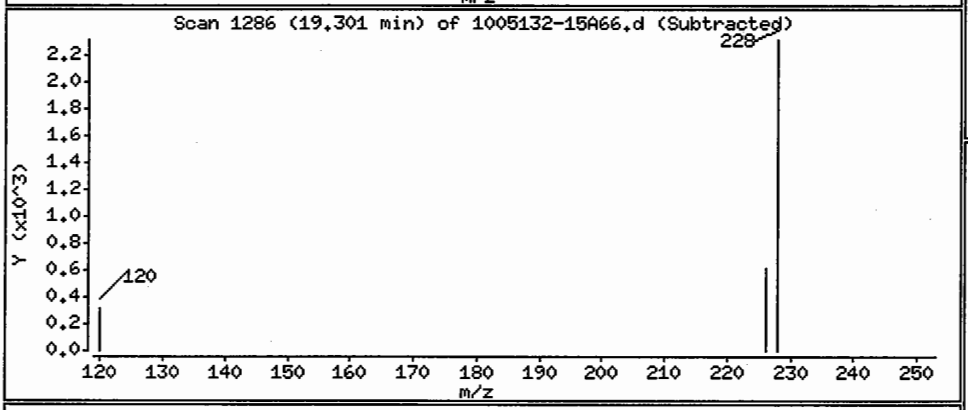
Volume Injected (uL): 2.0 Operator: 2650

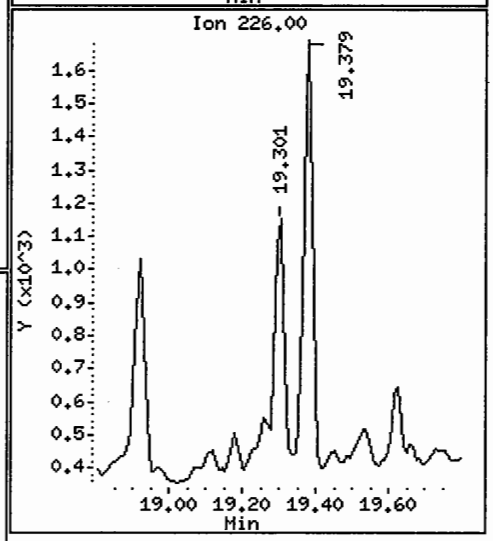
Column phase: Rtx-5MS Column diameter: 0.32

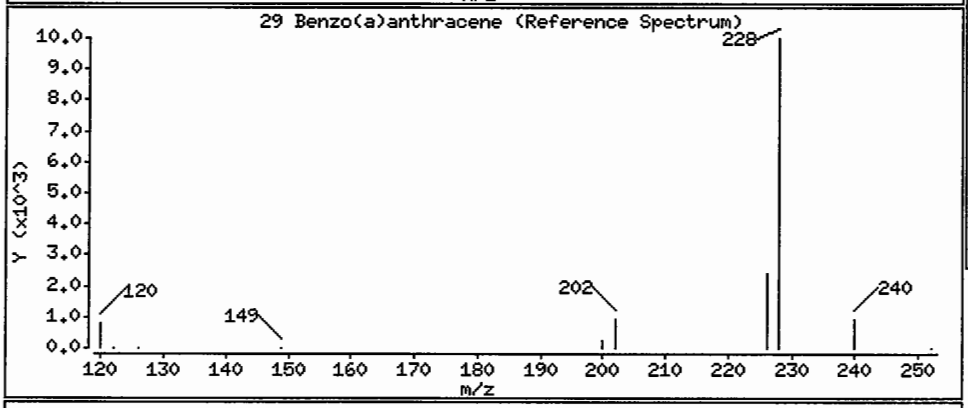
29 Benzo(a)anthracene Concentration: 0.86 ug/Kg

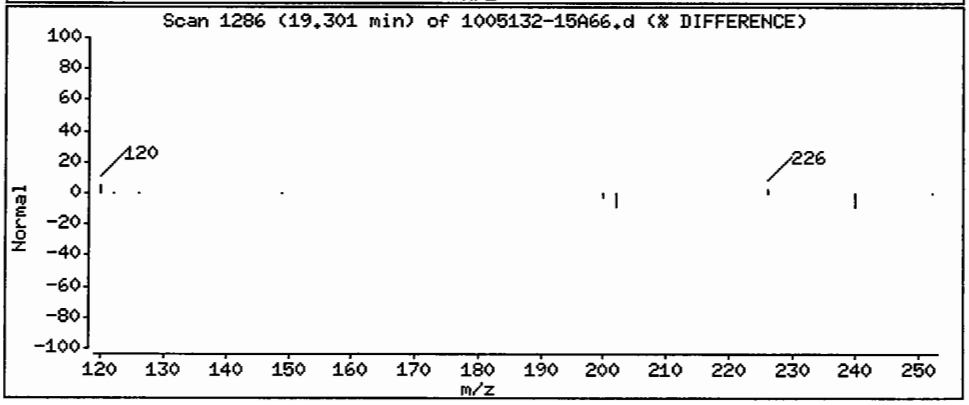












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

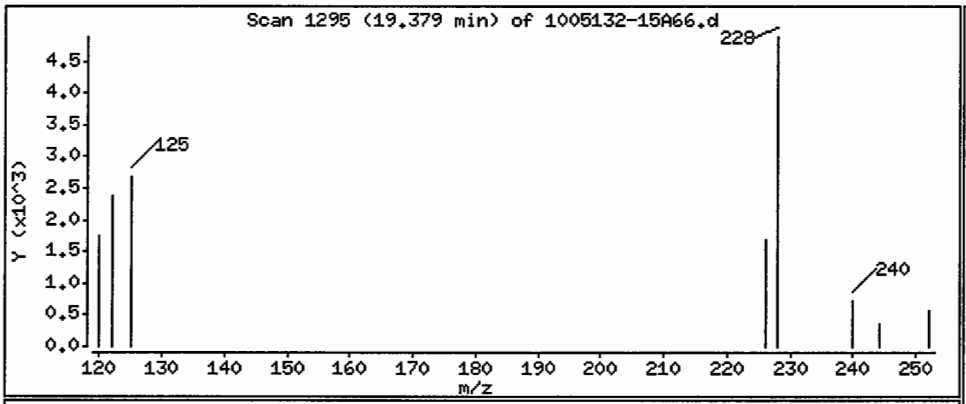
Client ID: SS81-0-1 Instrument: 5972hp66.i

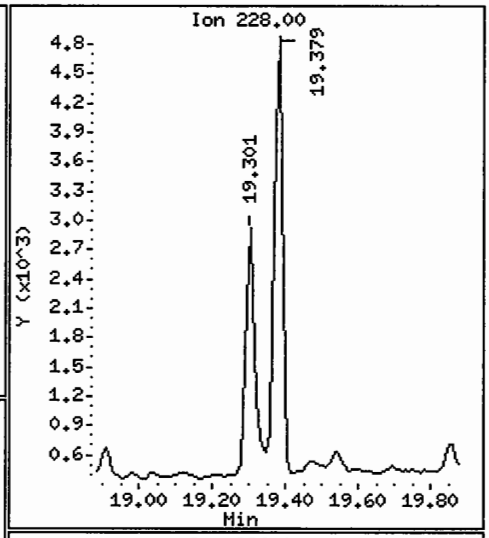
Sample Info: 1005132-15:2650

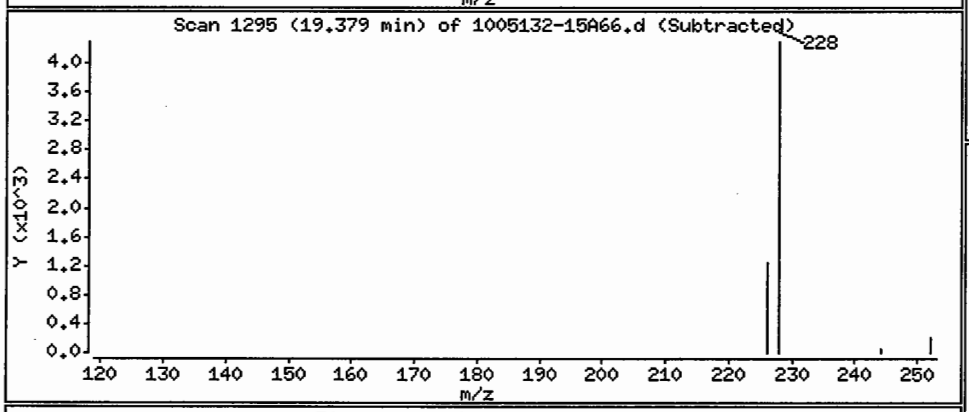
Volume Injected (uL): 2.0 Operator: 2650

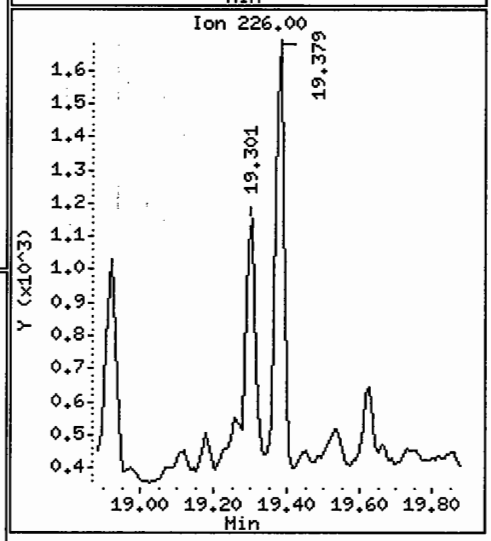
Column phase: Rtx-5MS Column diameter: 0.32

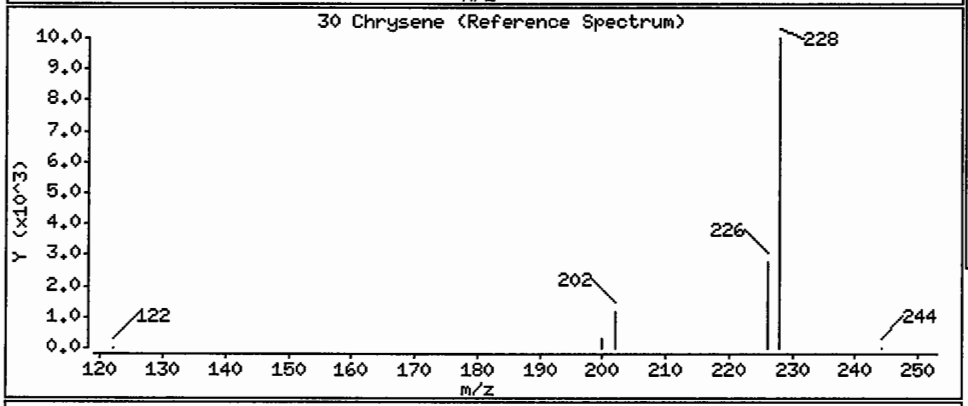
30 Chrysene Concentration: 1.3 ug/Kg

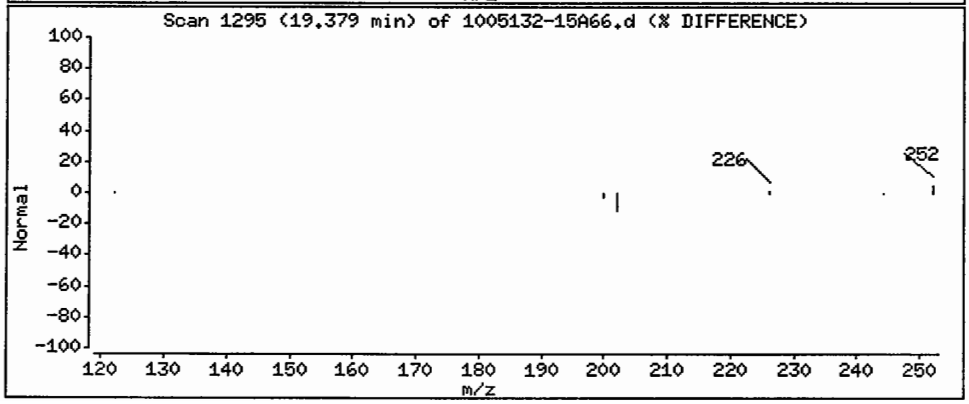












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

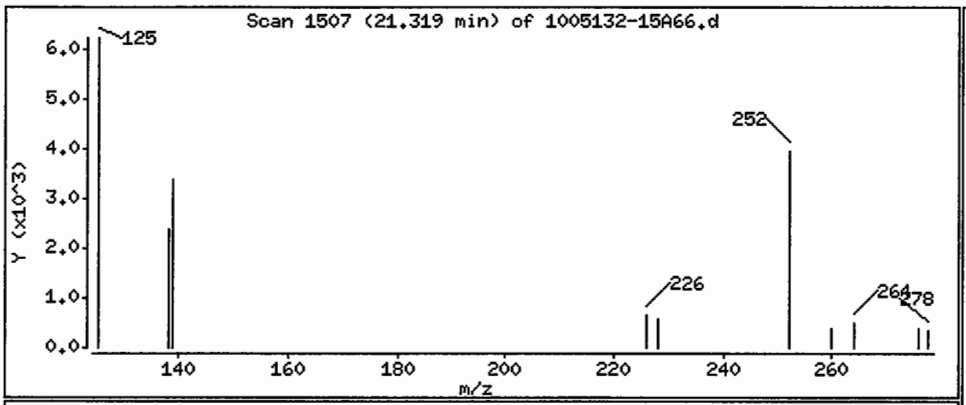
Client ID: SS81-0-1 Instrument: 5972hp66.i

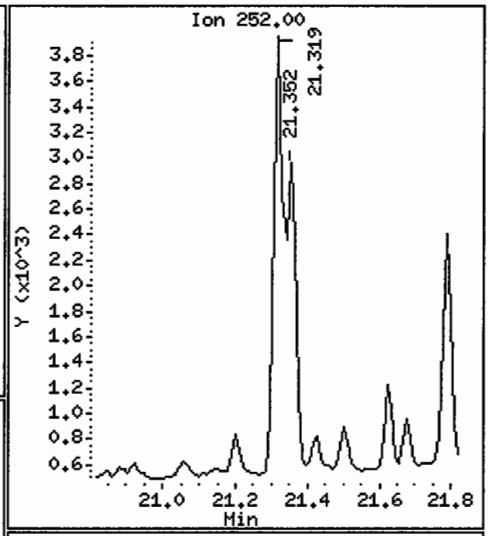
Sample Info: 1005132-15:2650

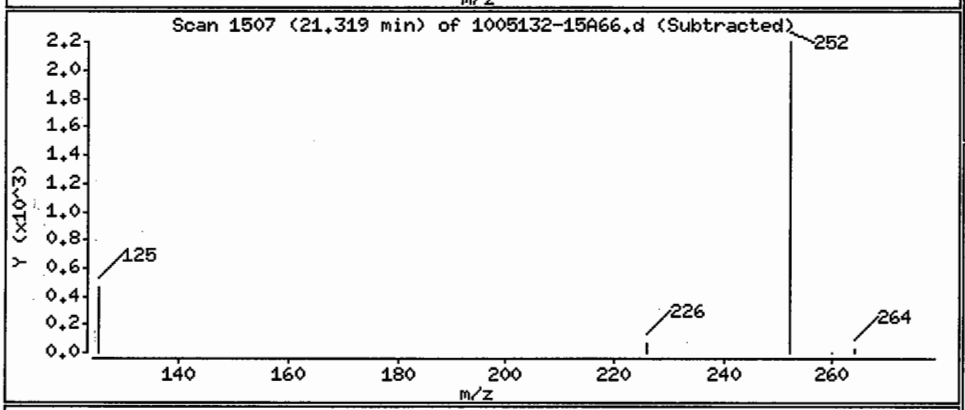
Volume Injected (uL): 2.0 Operator: 2650

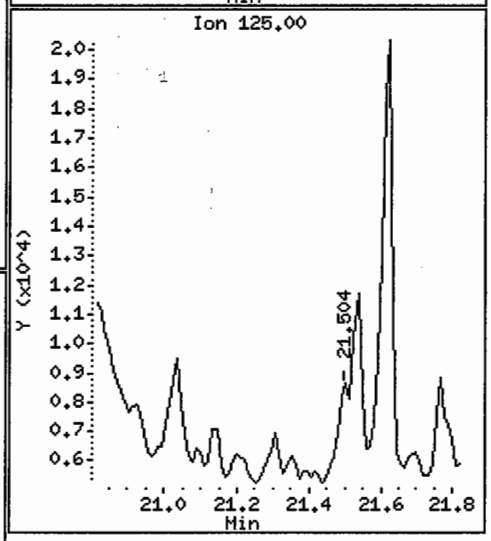
Column phase: Rtx-5MS Column diameter: 0.32

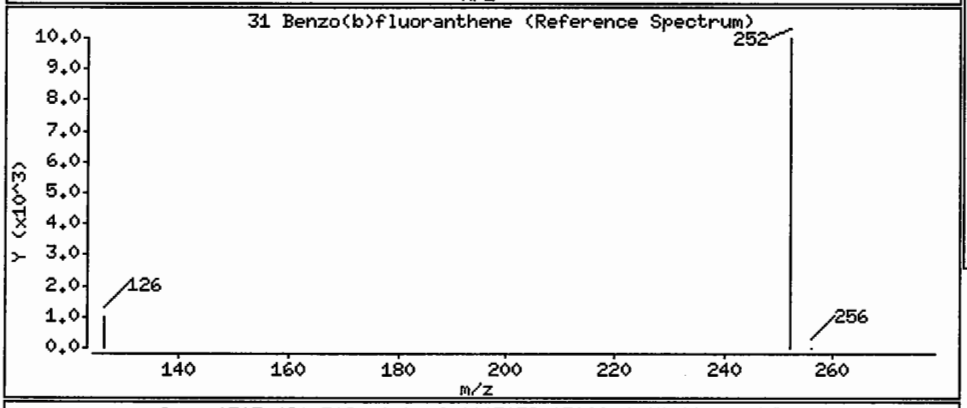
31 Benzo(b)fluoranthene Concentration: 1.4 ug/Kg

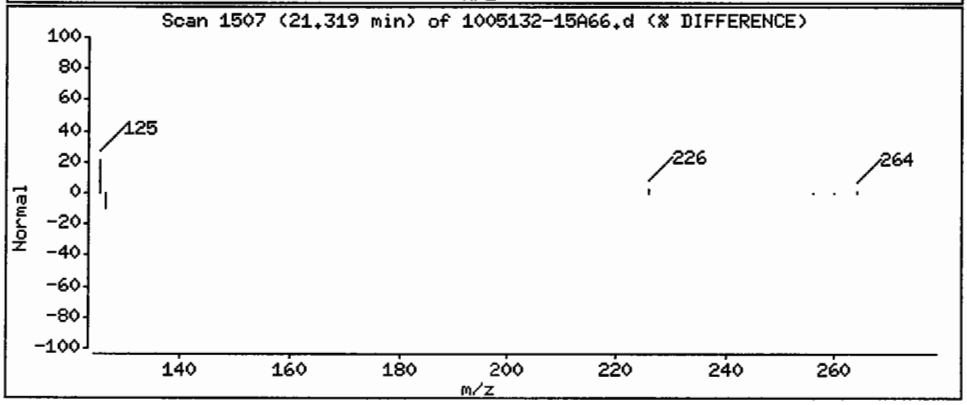












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

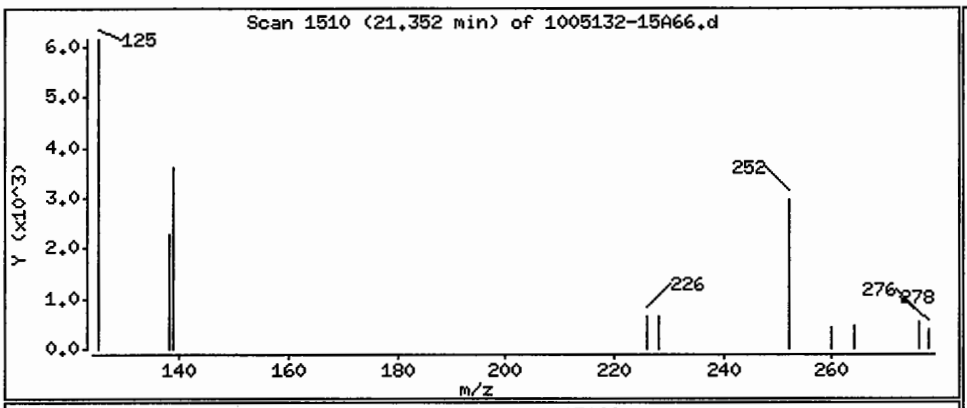
Client ID: SS81-0-1 Instrument: 5972hp66.i

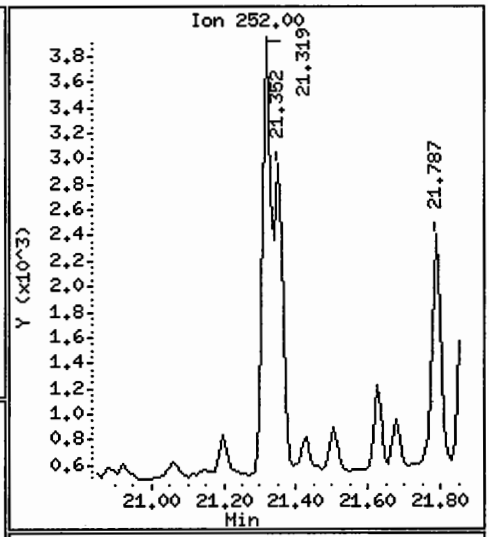
Sample Info: 1005132-15:2650

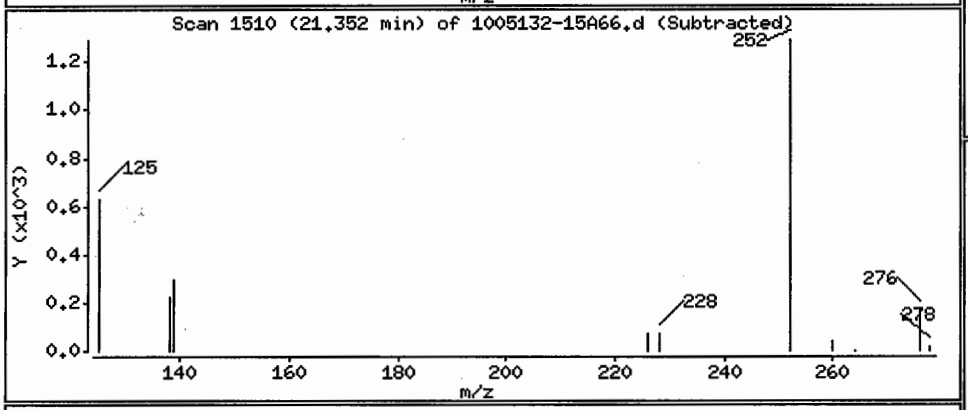
Volume Injected (uL): 2.0 Operator: 2650

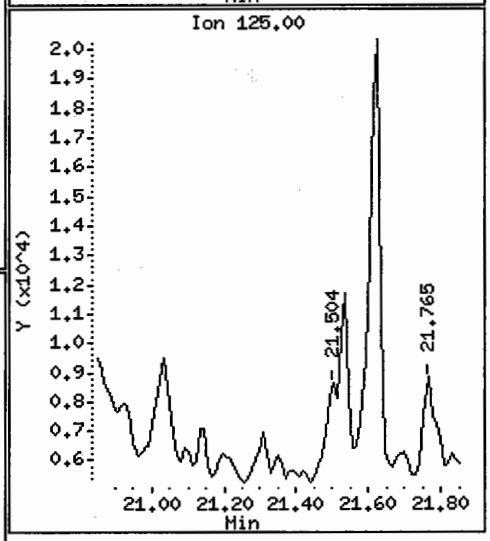
Column phase: Rtx-5MS Column diameter: 0.32

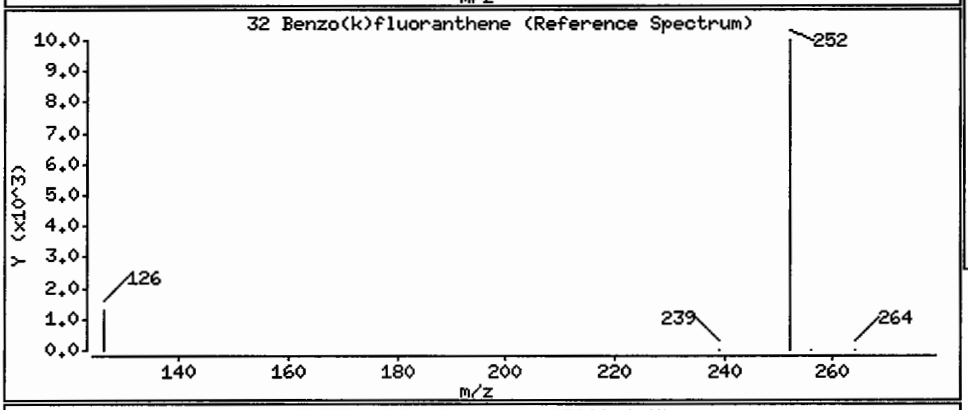
32 Benzo(k)fluoranthene Concentration: 0.84 ug/Kg

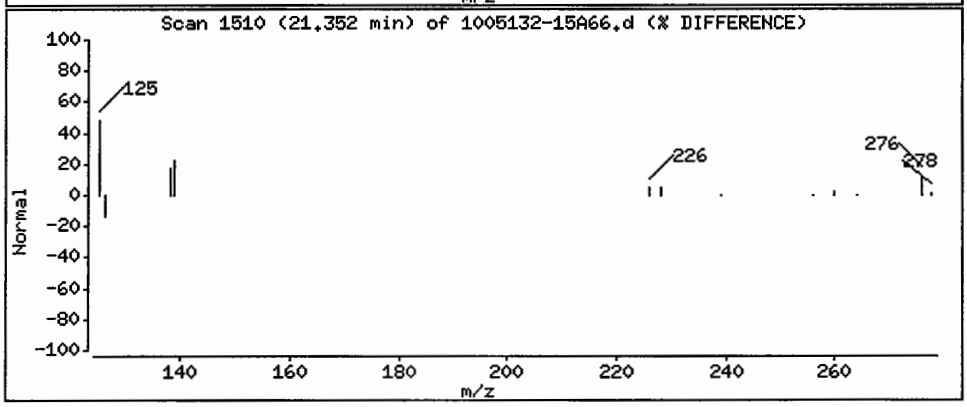












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

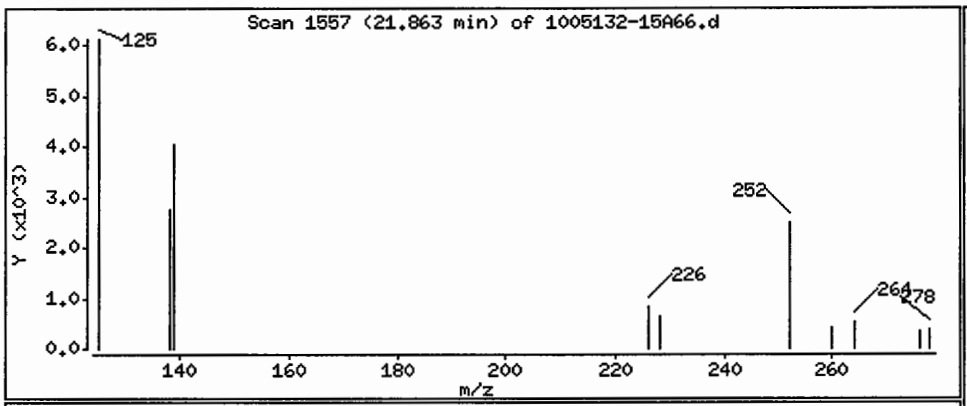
Client ID: SS81-0-1 Instrument: 5972hp66.i

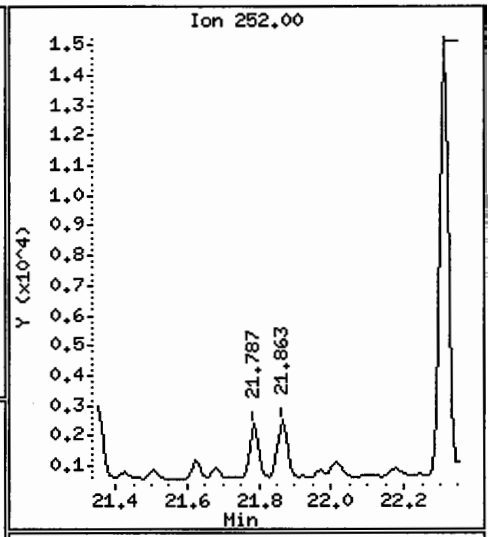
Sample Info: 1005132-15:2650

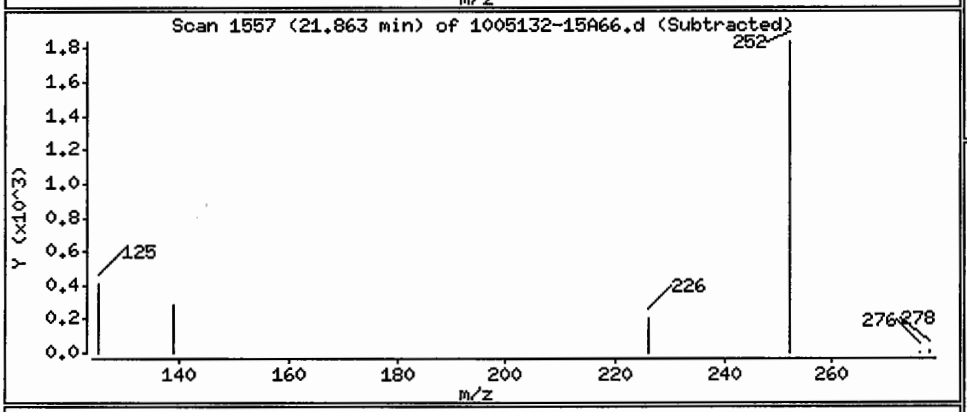
Volume Injected (uL): 2.0 Operator: 2650

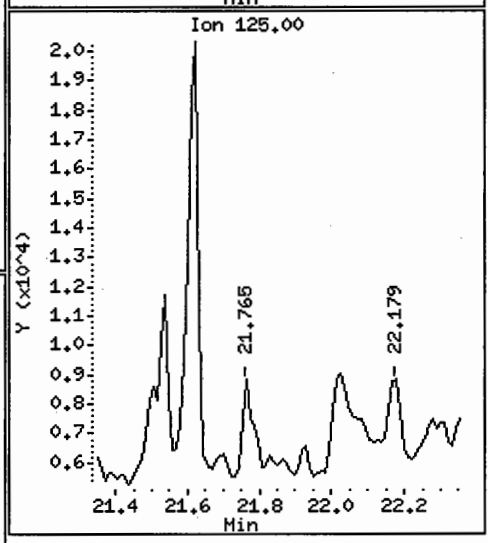
Column phase: Rtx-5MS Column diameter: 0.32

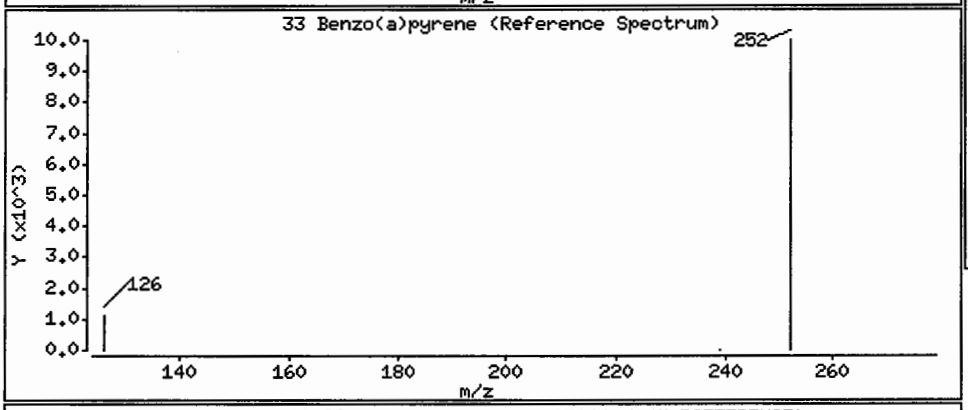
33 Benzo(a)pyrene Concentration: 0.76 ug/Kg

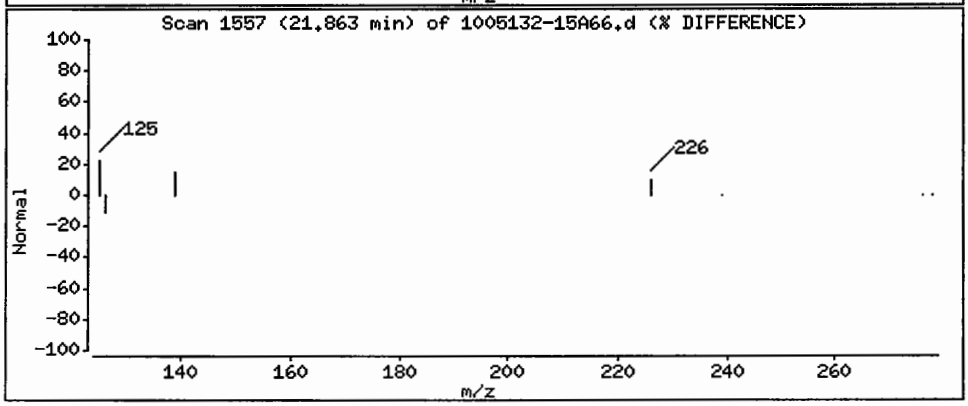












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

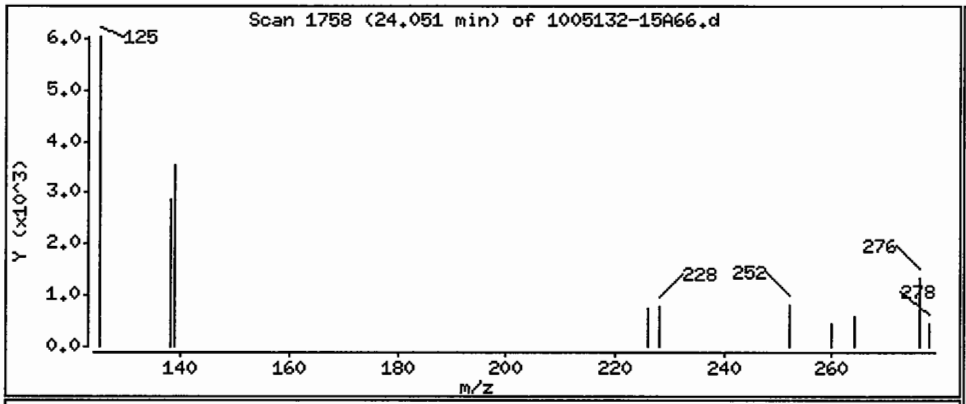
Client ID: SS81-0-1 Instrument: 5972hp66.i

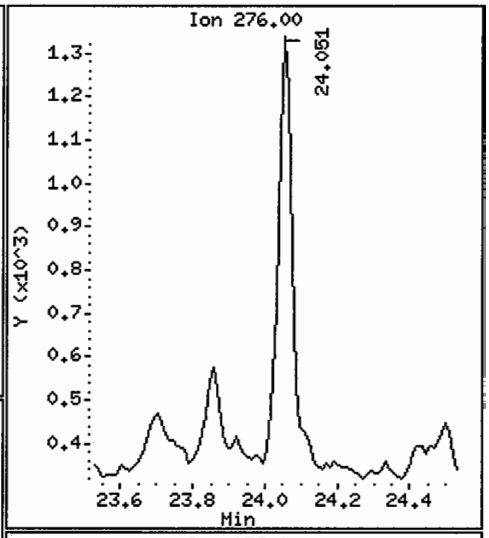
Sample Info: 1005132-15:2650

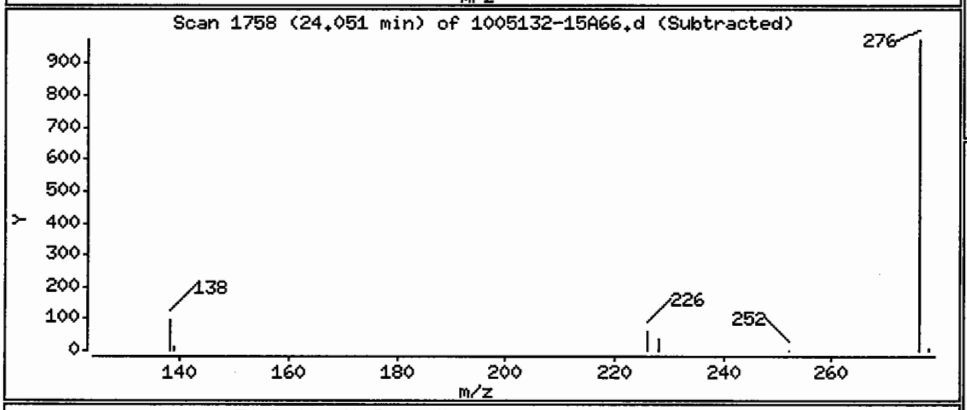
Volume Injected (uL): 2.0 Operator: 2650

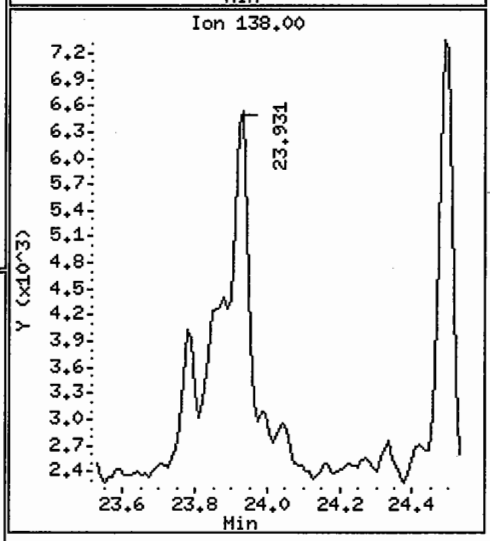
Column phase: Rtx-5MS Column diameter: 0.32

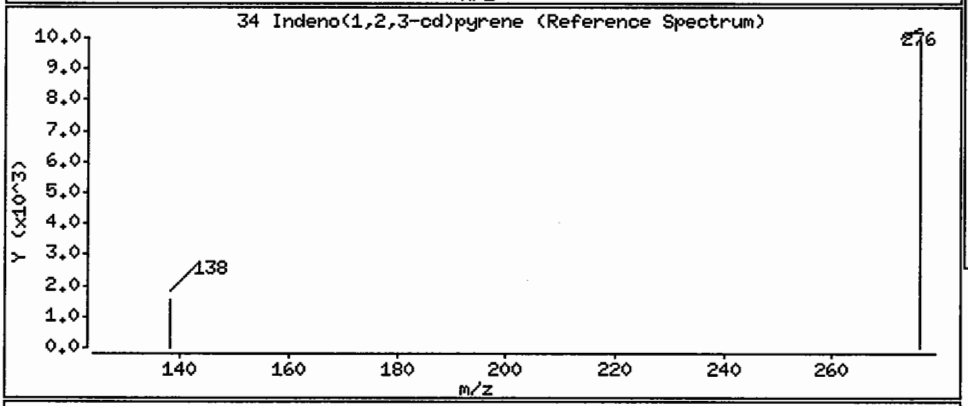
34 Indeno(1,2,3-cd)pyrene Concentration: 0.74 ug/Kg

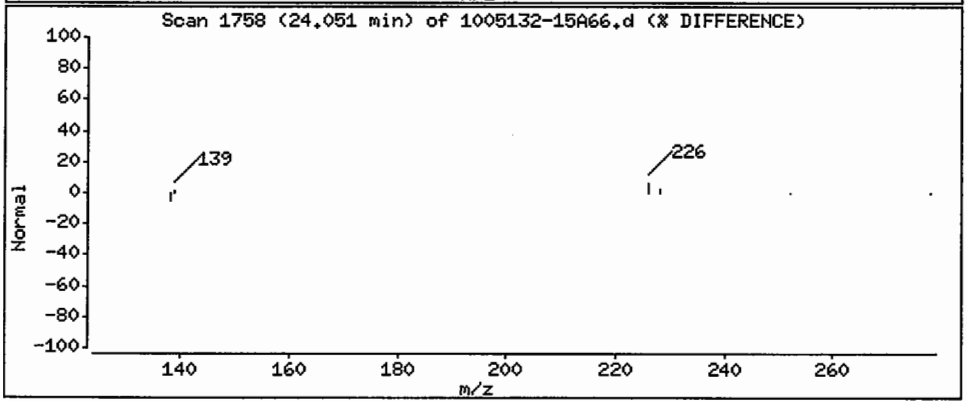












Data File: /chem/5972hp66.i/DS100601A66.b/1005132-15A66.d

Date : 01-JUN-2010 15:45

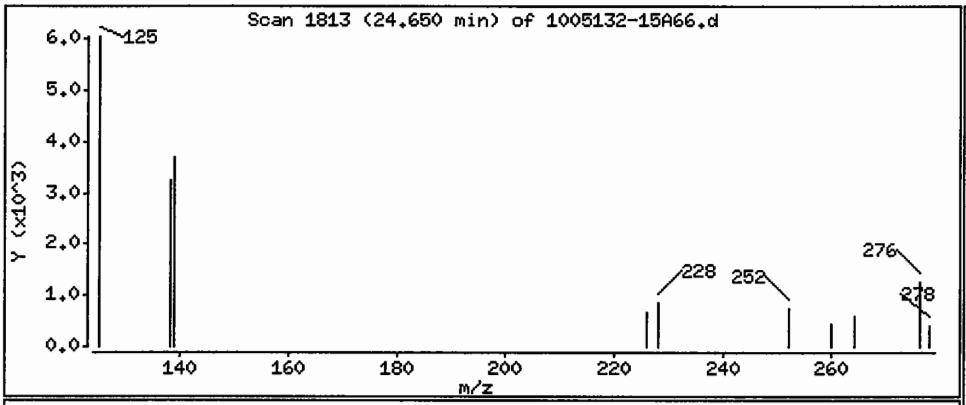
Client ID: SS81-0-1 Instrument: 5972hp66.i

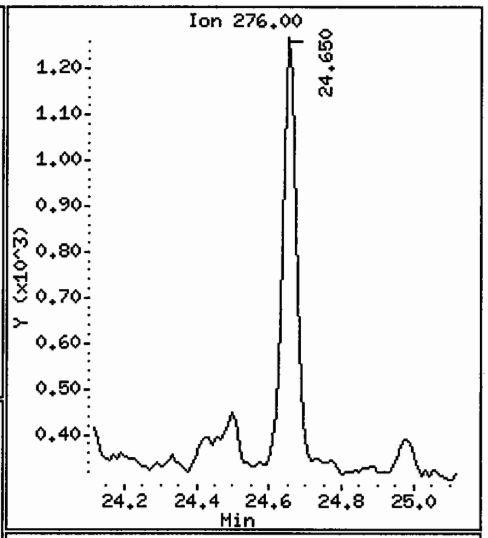
Sample Info: 1005132-15:2650

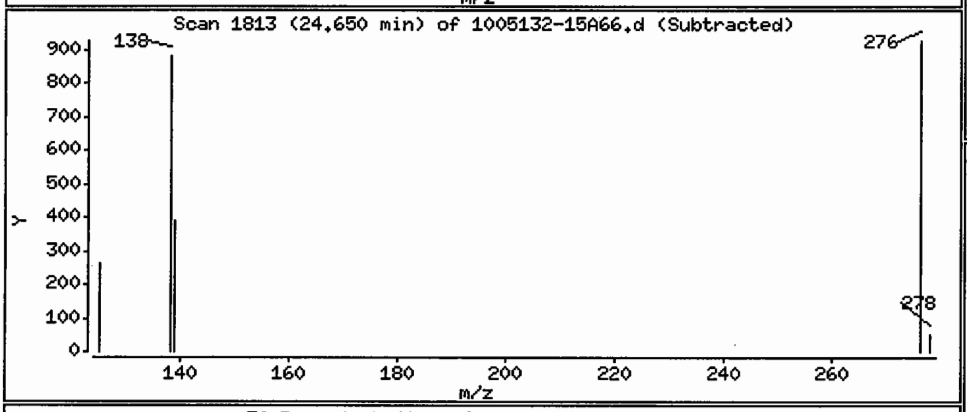
Volume Injected (uL): 2.0 Operator: 2650

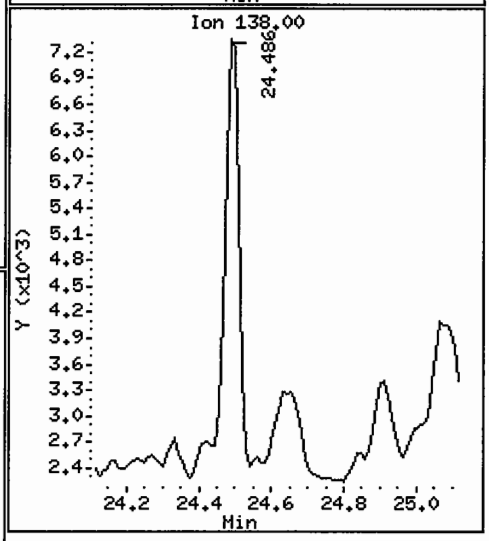
Column phase: Rtx-5MS Column diameter: 0.32

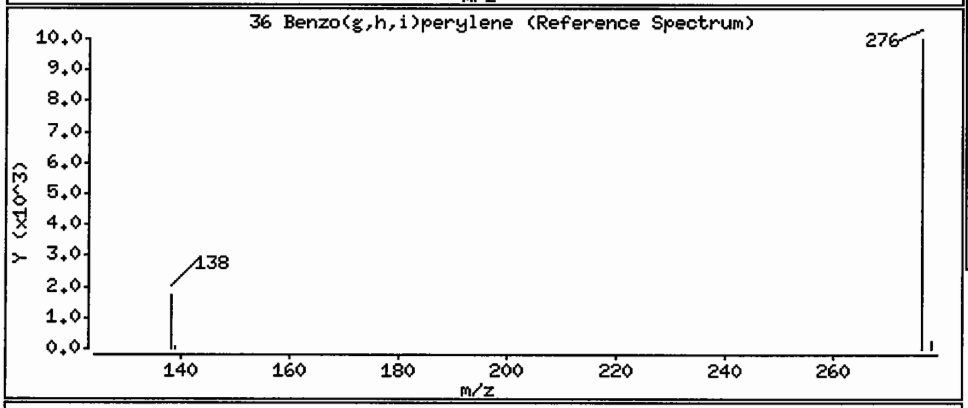
36 Benzo(g,h,i)perylene Concentration: 0.59 ug/Kg

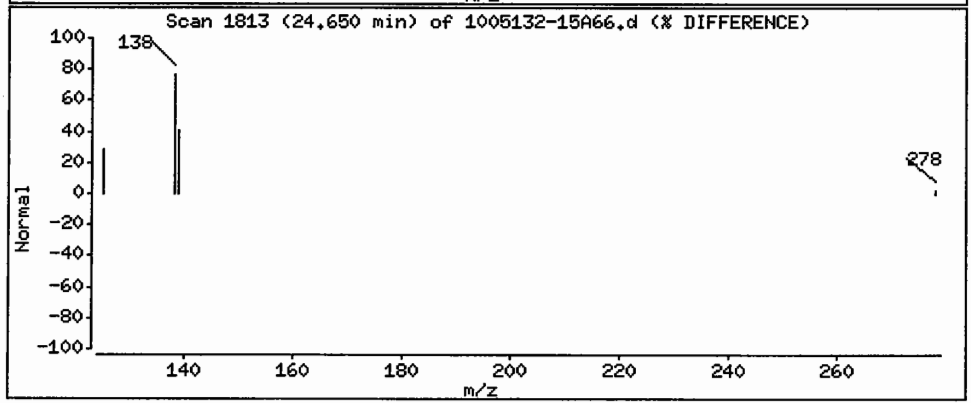












FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS83-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-07C66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 6 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

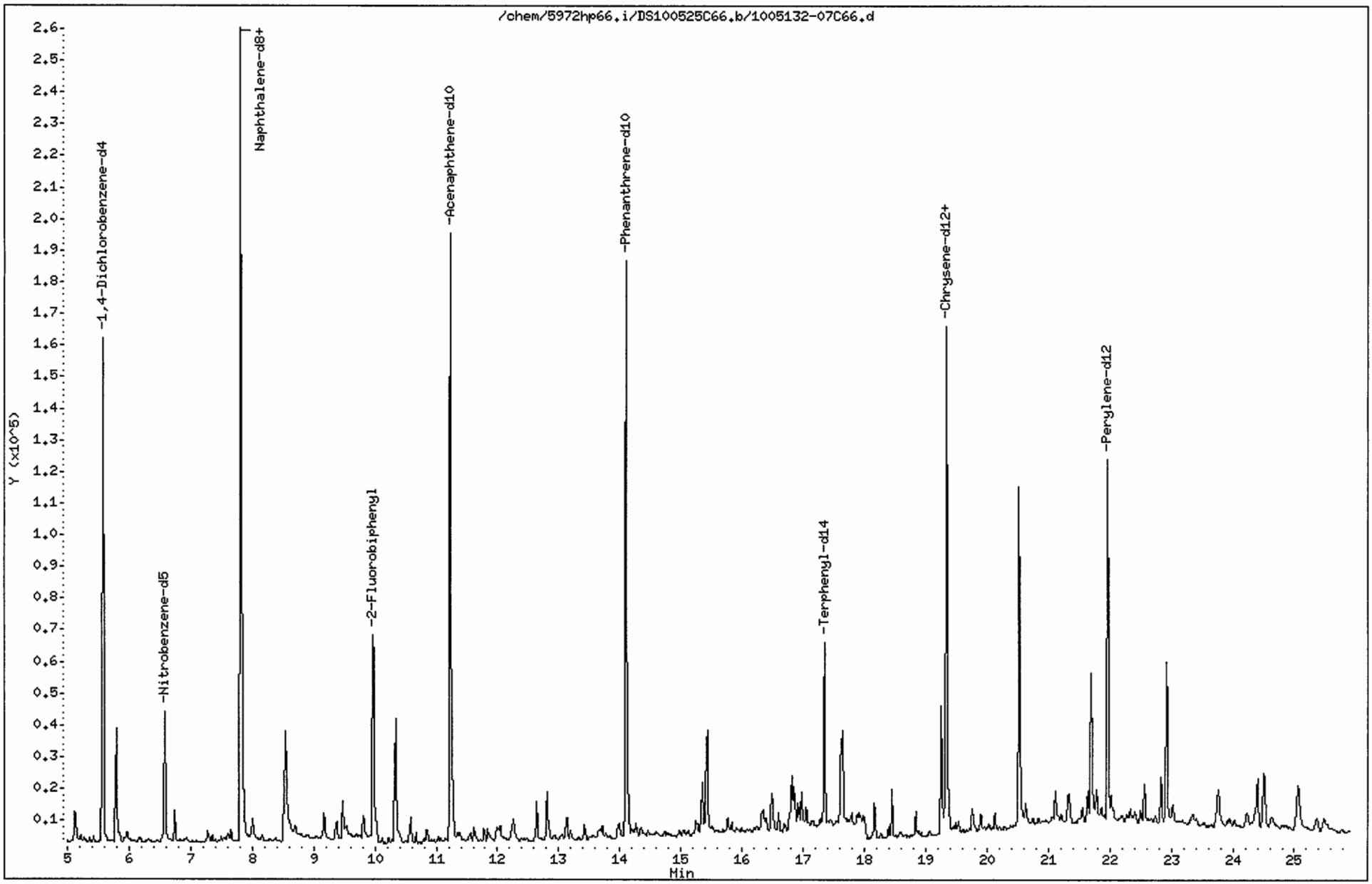
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.5	J
91-57-6	2-Methylnaphthalene	0.84	J
208-96-8	Acenaphthylene	8.8	U
83-32-9	Acenaphthene	8.8	U
86-73-7	Fluorene	8.8	U
85-01-8	Phenanthrene	8.8	U
120-12-7	Anthracene	8.8	U
206-44-0	Fluoranthene	8.8	U
129-00-0	Pyrene	1.1	J
56-55-3	Benzo(a)anthracene	0.64	J
218-01-9	Chrysene	1.0	J
205-99-2	Benzo(b)fluoranthene	1.4	J
207-08-9	Benzo(k)fluoranthene	0.90	J
50-32-8	Benzo(a)pyrene	0.78	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.65	J
53-70-3	Dibenzo(a,h)anthracene	8.8	U
191-24-2	Benzo(g,h,i)perylene	0.54	J

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Date : 26-MAY-2010 16:59
Client ID: SS83-0-1
Sample Info: 1005132-07:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Report Date: 03-Jun-2010 17:54

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Lab Smp Id: 1005132-07 Client Smp ID: SS83-0-1
Inj Date : 26-MAY-2010 16:59
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-07:2730
Misc Info : SS83-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 18:08 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	6.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.583	5.560	(1.000)	102359	2.00000		(a)
*	2 Naphthalene-d8	136	7.812	7.802	(1.000)	342054	2.00000		(a)
*	3 Acenaphthene-d10	164	11.230	11.231	(1.000)	144888	2.00000		(a)
*	4 Phenanthrene-d10	188	14.101	14.101	(1.000)	248607	2.00000		(a)
*	5 Chrysene-d12	240	19.344	19.336	(1.000)	220602	2.00000		(a)
*	6 Perylene-d12	264	21.972	21.961	(1.000)	151817	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.574	6.563	(0.841)	51660	0.67872	12	
$	10 2-Fluorobiphenyl	172	9.963	9.966	(0.887)	109667	0.72534	13	
$	12 Terphenyl-d14	244	17.348	17.347	(0.897)	69809	0.87093	15	
	13 Naphthalene	128	7.851	7.841	(1.005)	17821	0.08423	1.5	(a)
	15 2-Methylnaphthalene	141	9.168	9.170	(0.816)	4900	0.04724	0.84	(a)
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Report Date: 03-Jun-2010 17:54

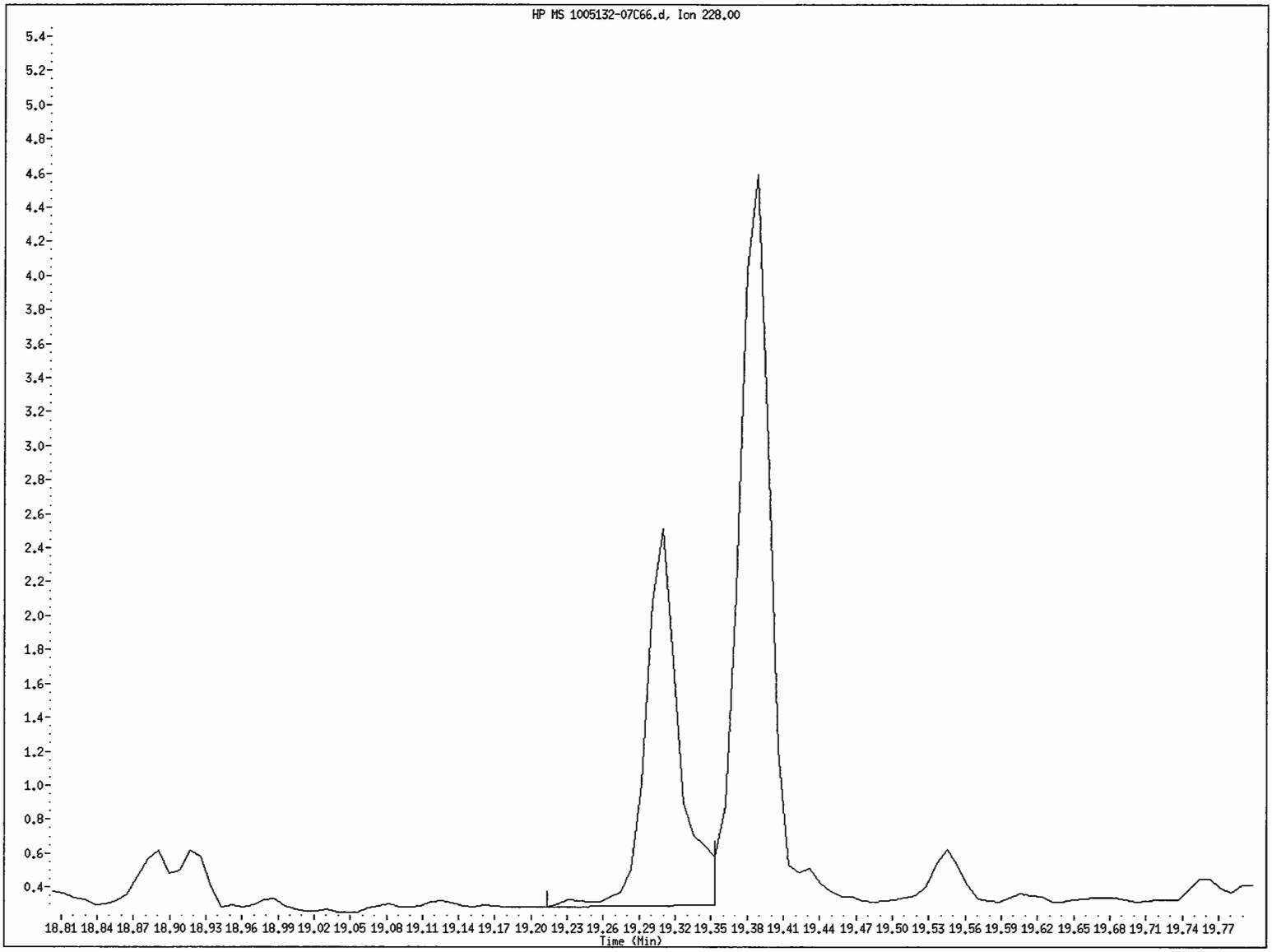
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.917	16.917	(0.875)	10041	0.06303	1.1(a)
29 Benzo(a)anthracene	228	19.309	19.301	(0.998)	4337	0.03617	0.64(aM)
30 Chrysene	228	19.388	19.379	(1.002)	7528	0.05796	1.0(a)
31 Benzo(b)fluoranthene	252	21.319	21.308	(0.970)	8086	0.08076	1.4(a)
32 Benzo(k)fluoranthene	252	21.352	21.352	(0.972)	5474	0.05081	0.90(aM)
33 Benzo(a)pyrene	252	21.863	21.853	(0.995)	3964	0.04393	0.78(a)
34 Indeno(1,2,3-cd)pyrene	276	24.029	24.008	(1.094)	2922	0.03671	0.65(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.617	24.595	(1.120)	2703	0.03064	0.54(aM)

6/3/10 MH

QC Flag Legend

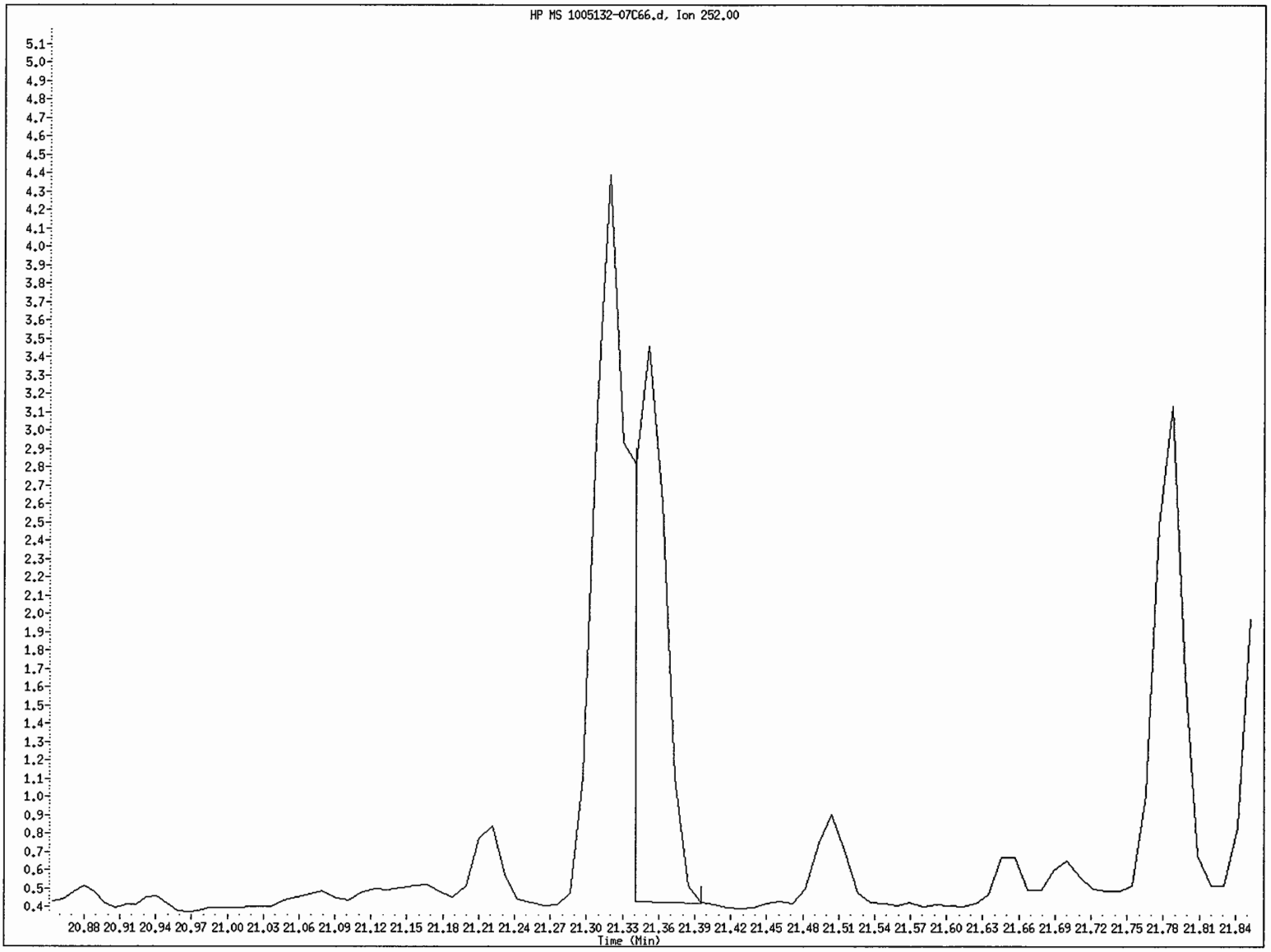
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Benzo(a)anthracene CAS Number 56-55-3 Area = 4337 Manually integrated



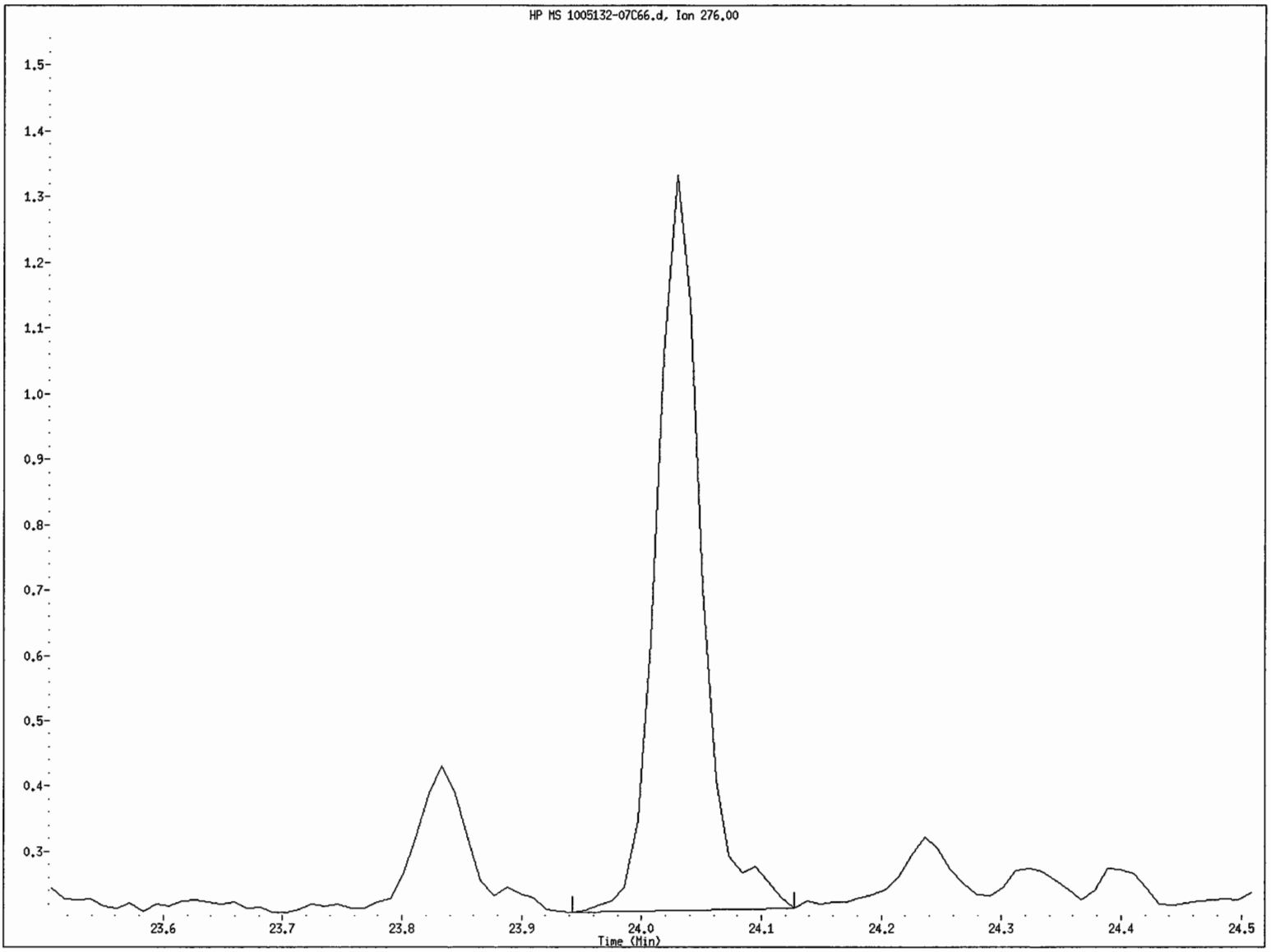
File name: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Client ID: SS83-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 16:59
Retention Time: 19.31
Operator ID: 2730

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 5474 Manually integrated



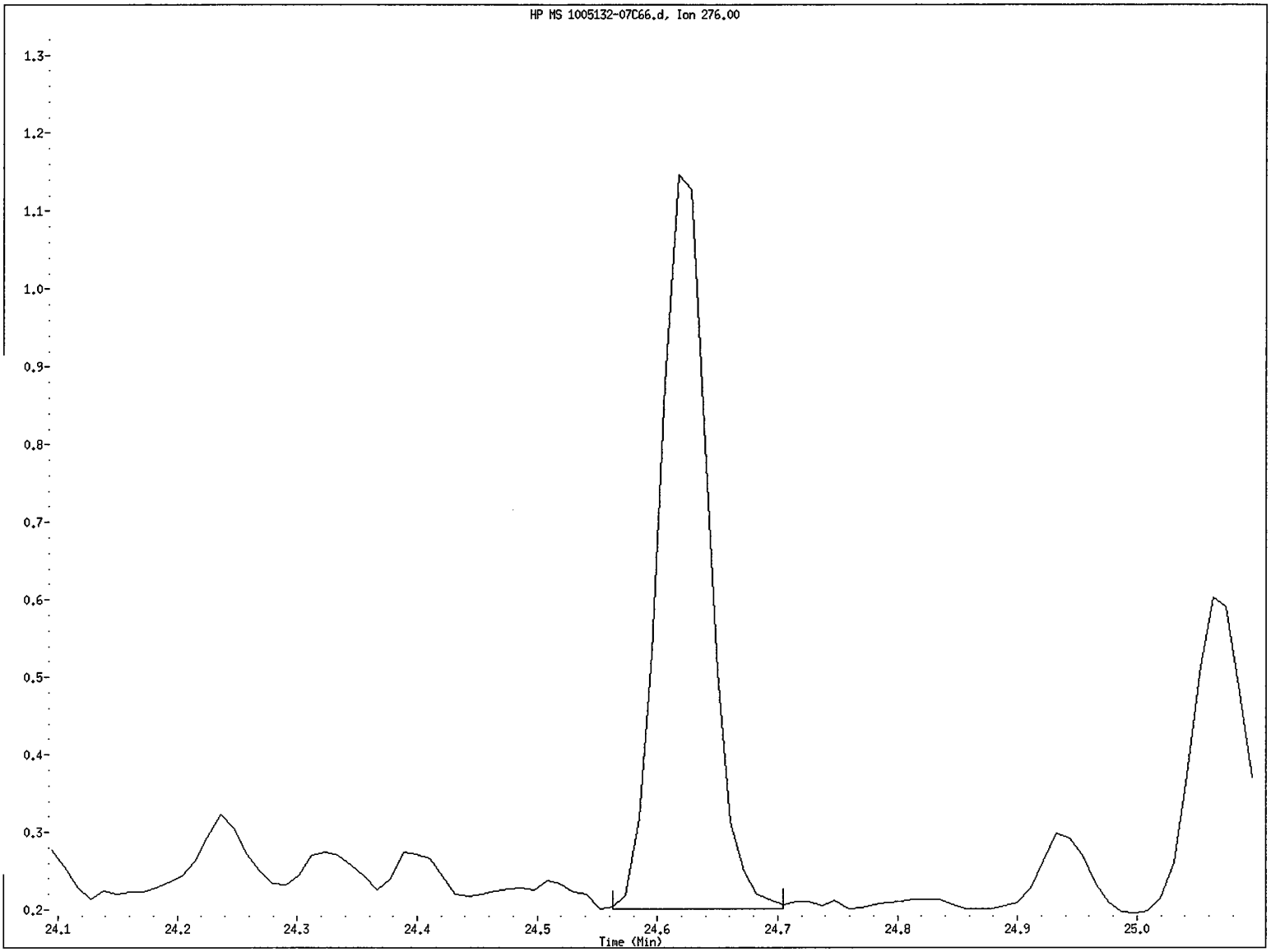
File name: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Client ID: SS83-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 16:59
Retention Time: 21.35
Operator ID: 2730

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 2922 Manually integrated



File name: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Client ID: SS83-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 16:59
Retention Time: 24.03
Operator ID: 2730

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 2703 Manually integrated



File name: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Client ID: SS83-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 16:59
Retention Time: 24.62
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

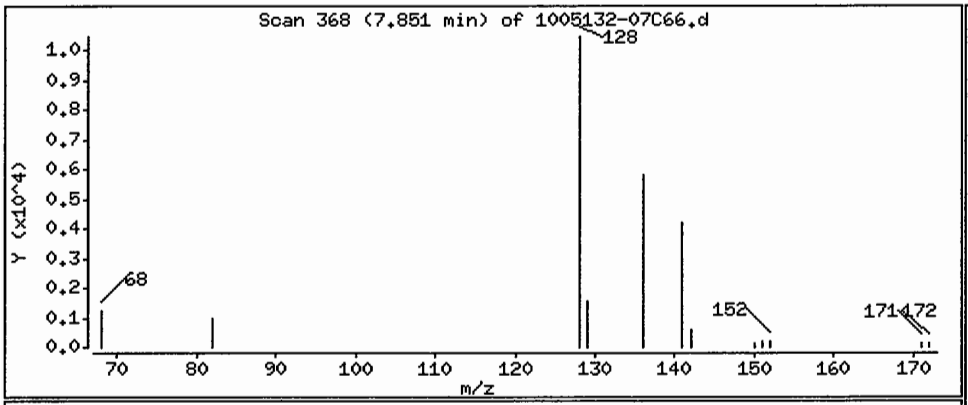
Client ID: SS83-0-1 Instrument: 5972hp66.i

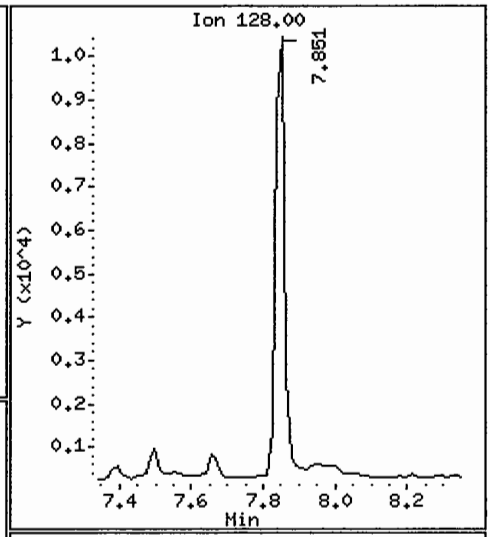
Sample Info: 1005132-07:2730

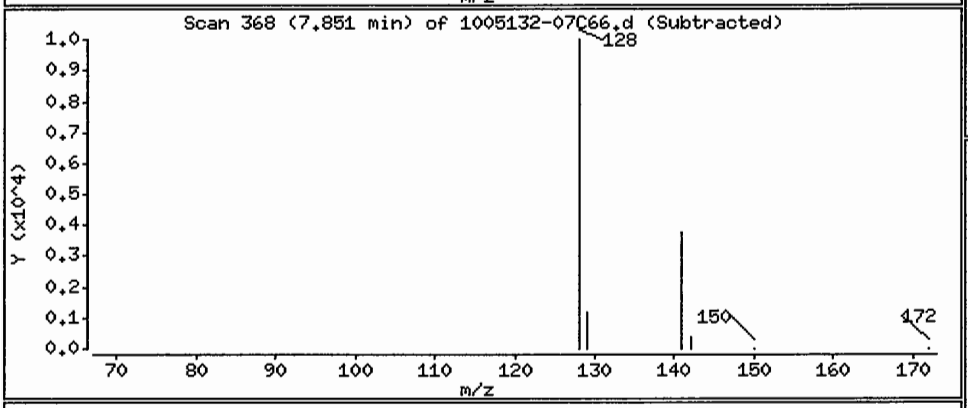
Volume Injected (uL): 2.0 Operator: 2730

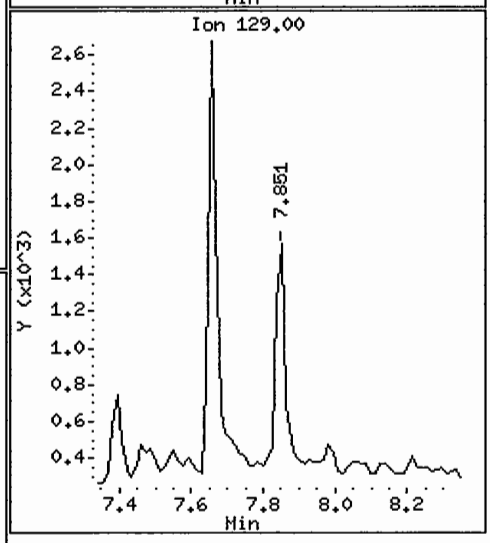
Column phase: Rtx-5MS Column diameter: 0.32

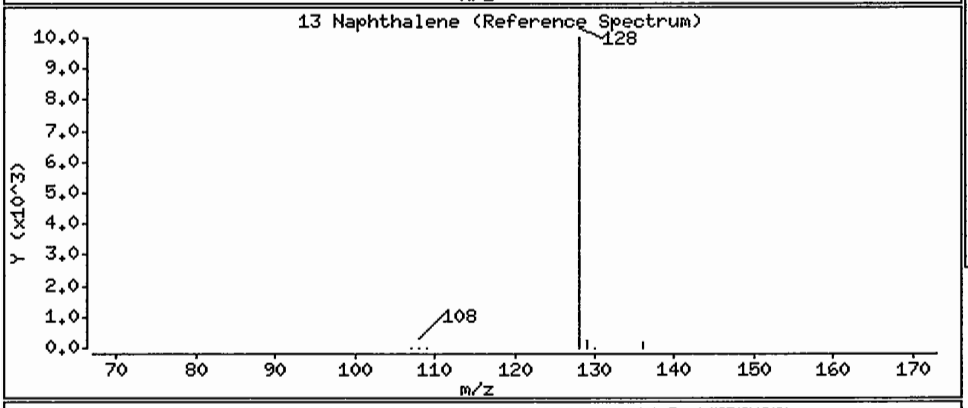
13 Naphthalene Concentration: 1.5 ug/Kg

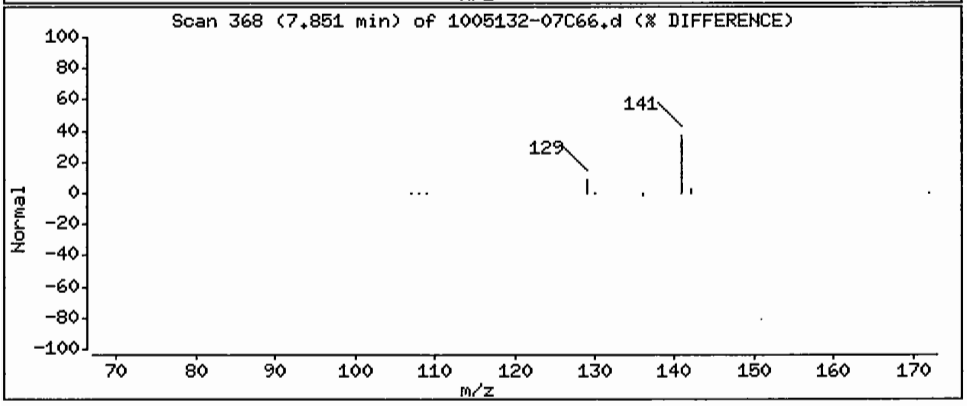












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

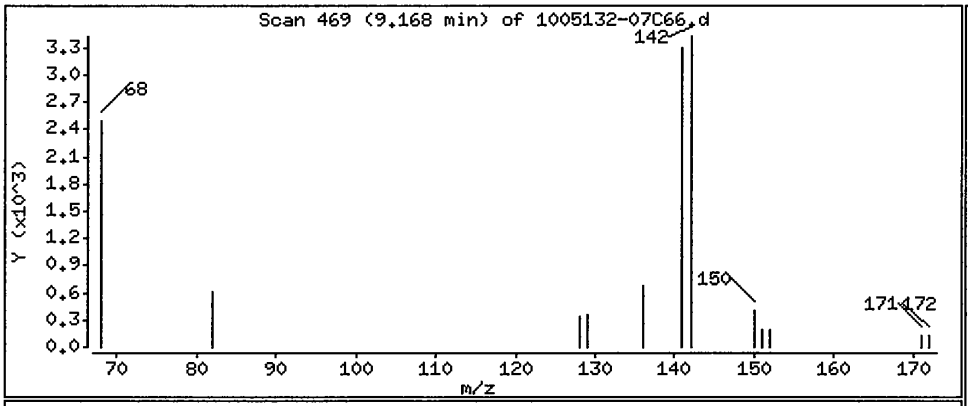
Client ID: SS83-0-1 Instrument: 5972hp66.i

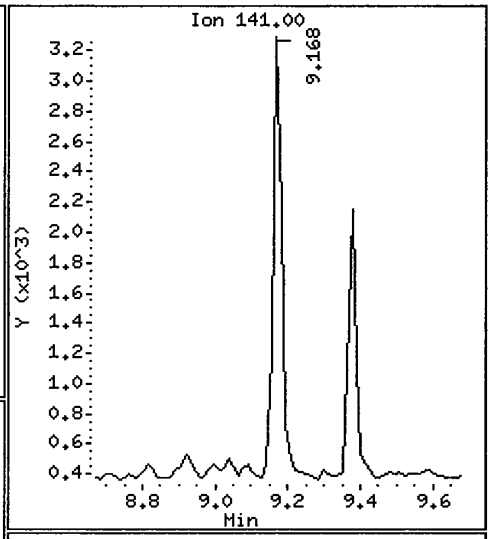
Sample Info: 1005132-07:2730

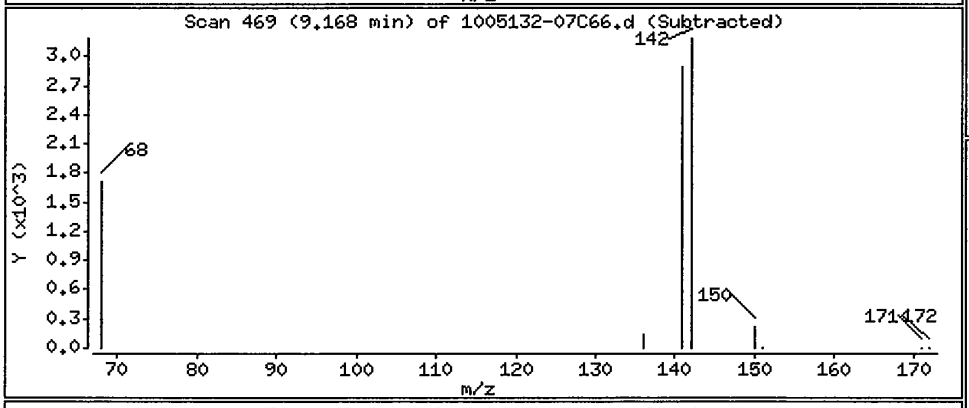
Volume Injected (uL): 2.0 Operator: 2730

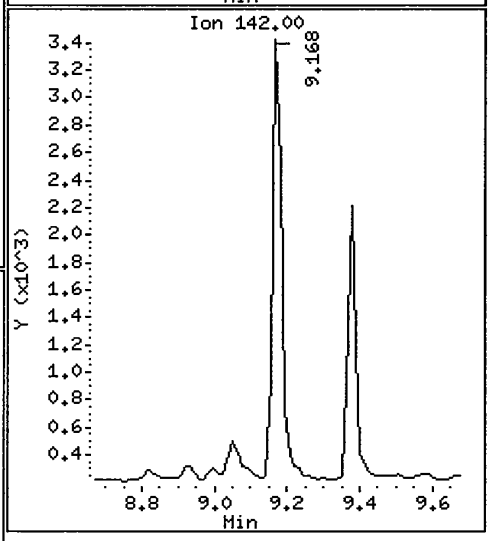
Column phase: Rtx-5MS Column diameter: 0.32

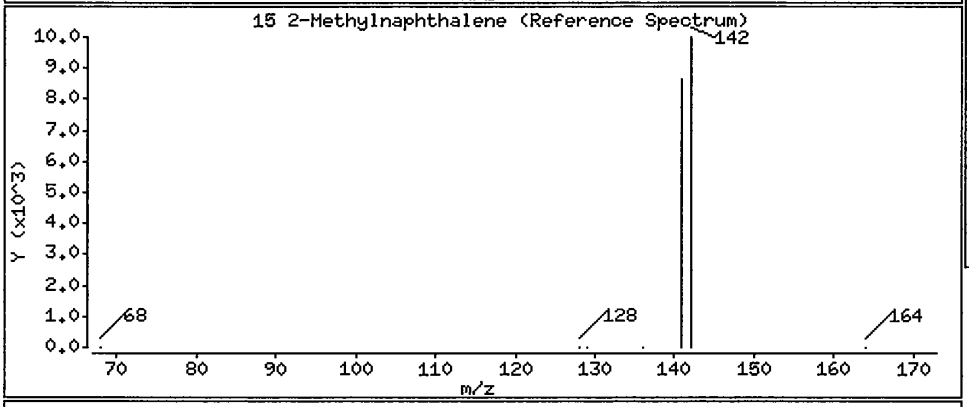
15 2-Methylnaphthalene Concentration: 0.84 ug/Kg

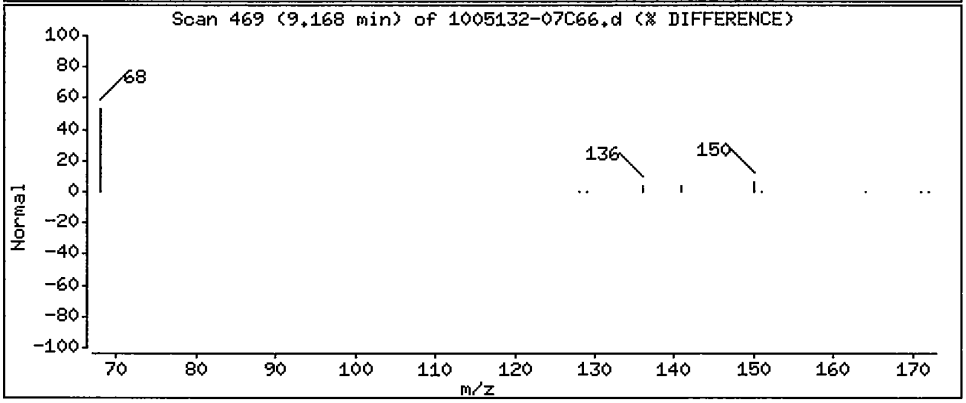












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

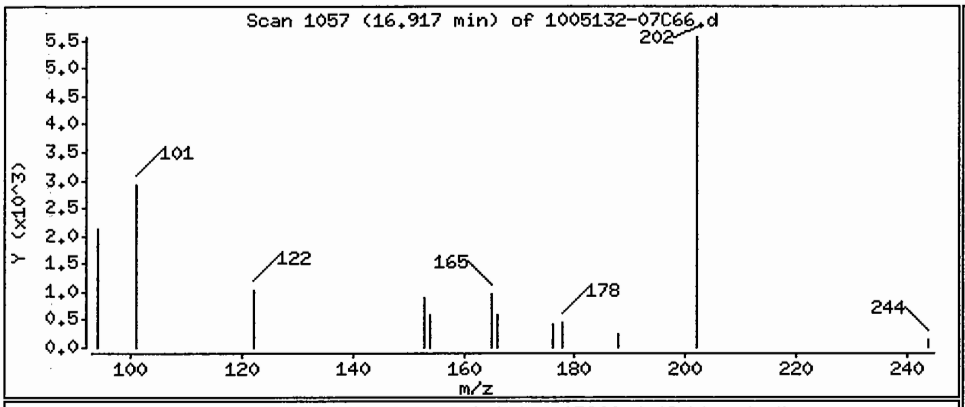
Client ID: SS83-0-1 Instrument: 5972hp66.i

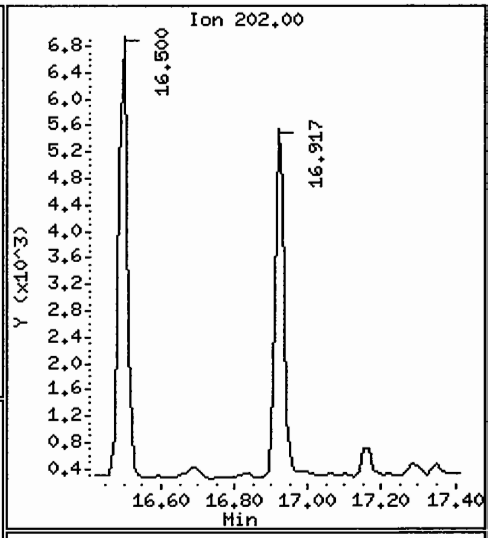
Sample Info: 1005132-07:2730

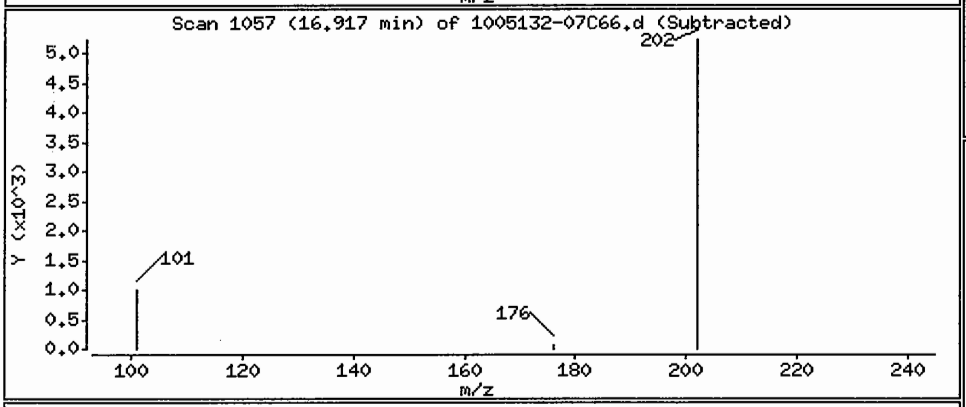
Volume Injected (uL): 2.0 Operator: 2730

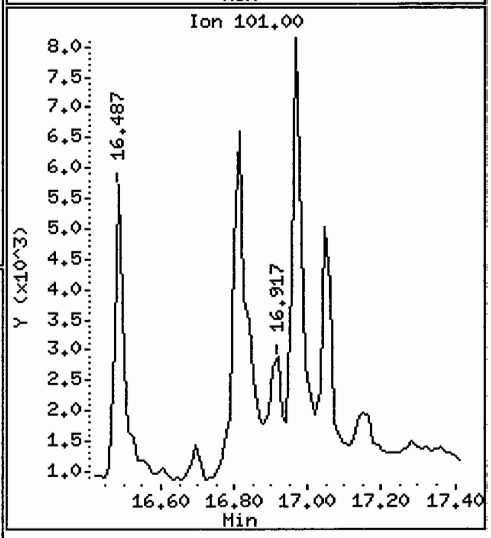
Column phase: Rtx-5MS Column diameter: 0.32

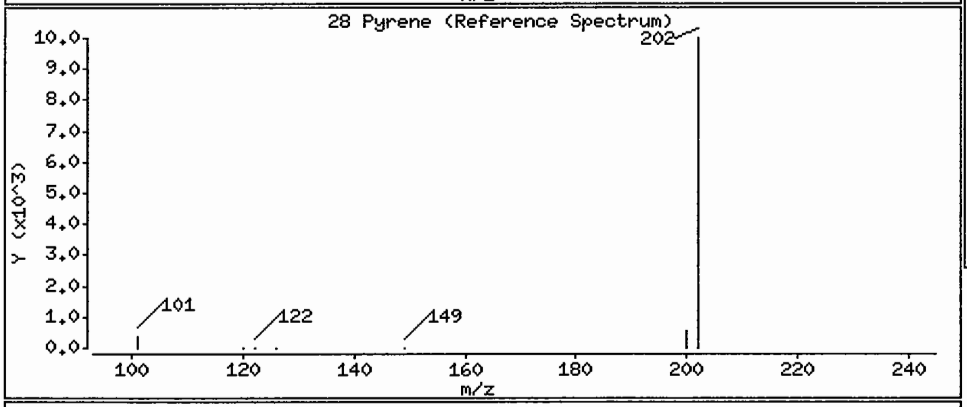
28 Pyrene Concentration: 1.1 ug/Kg

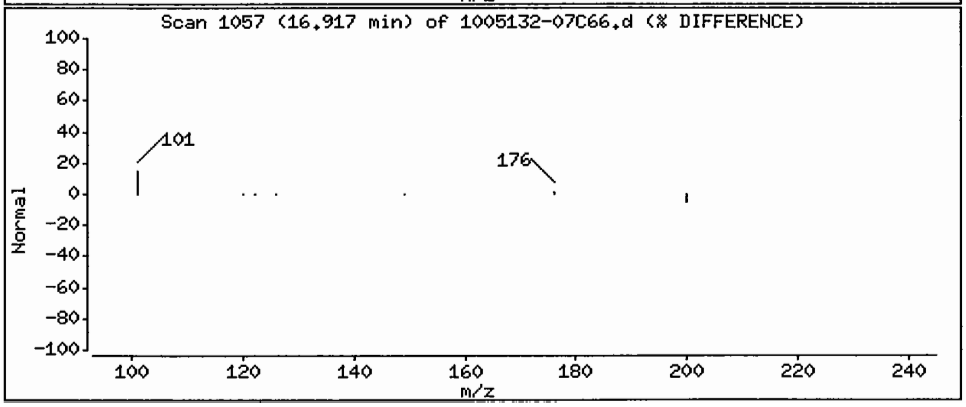












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

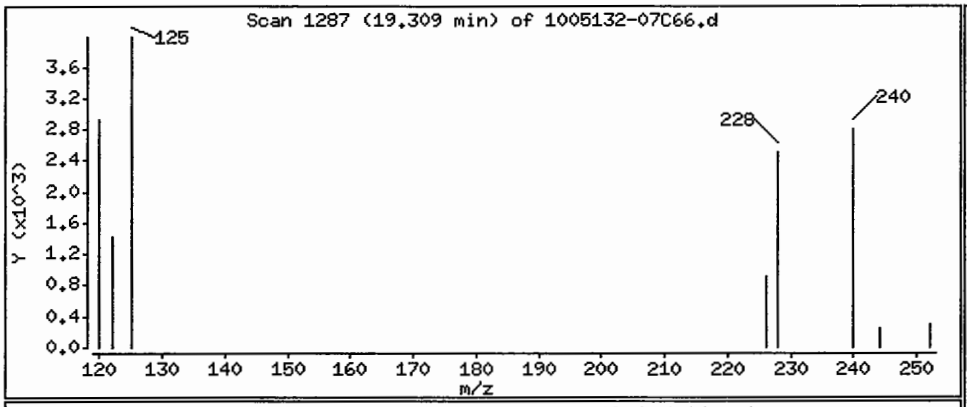
Client ID: SS83-0-1 Instrument: 5972hp66.i

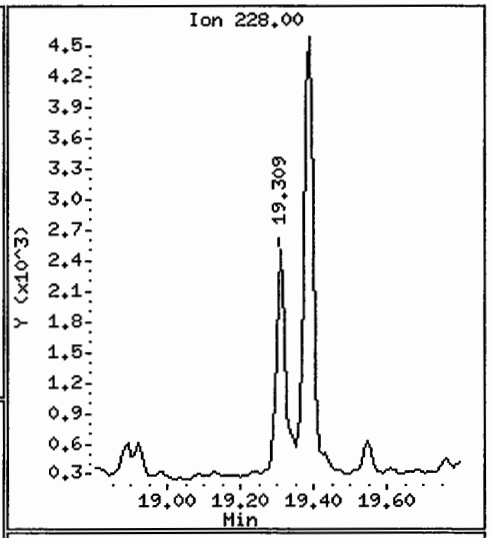
Sample Info: 1005132-07:2730

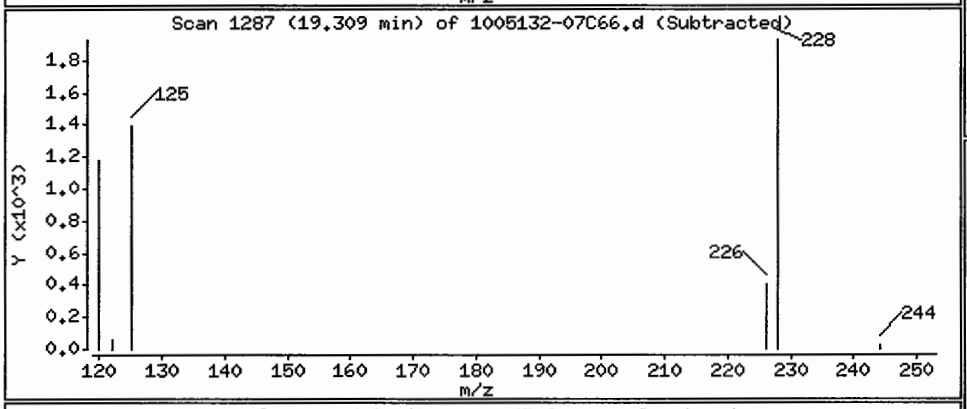
Volume Injected (uL): 2.0 Operator: 2730

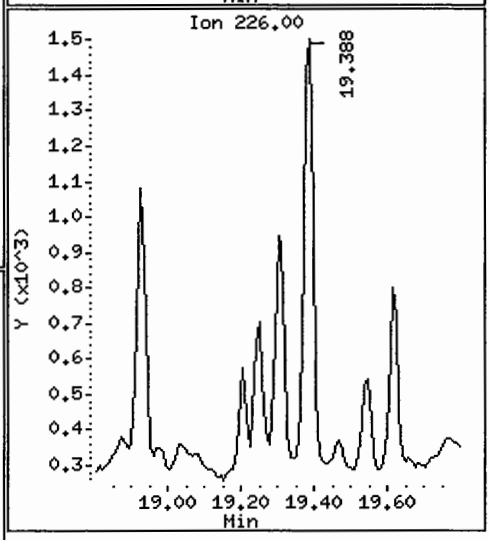
Column phase: Rtx-5MS Column diameter: 0.32

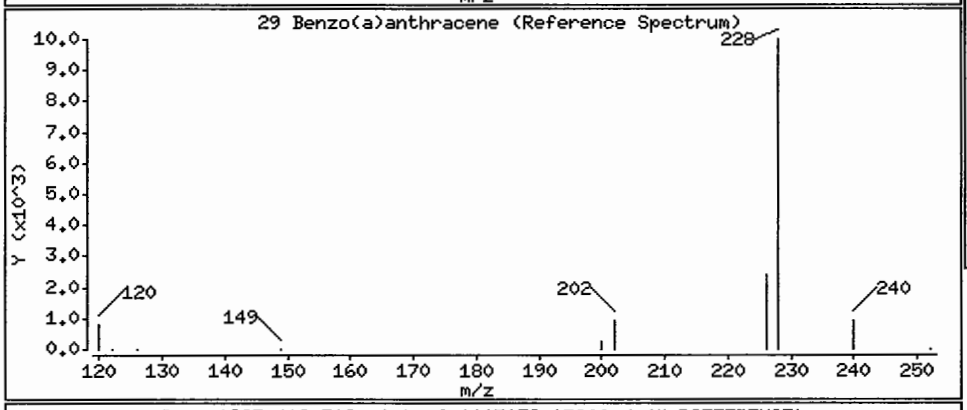
29 Benzo(a)anthracene Concentration: 0.64 ug/Kg

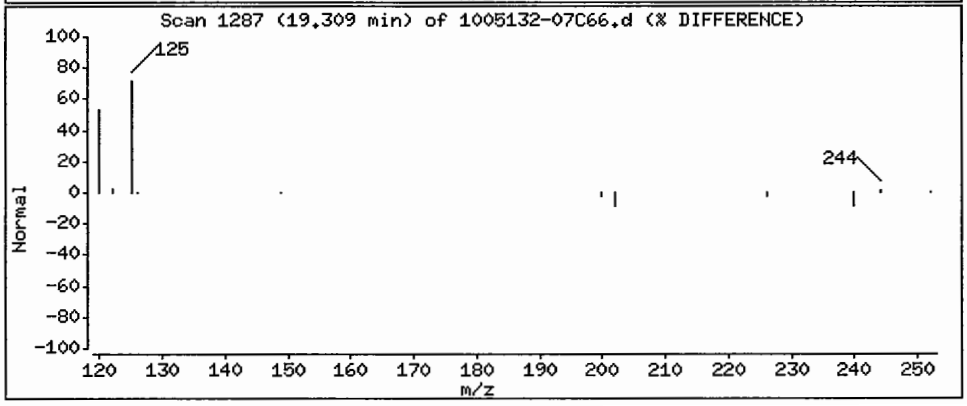












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

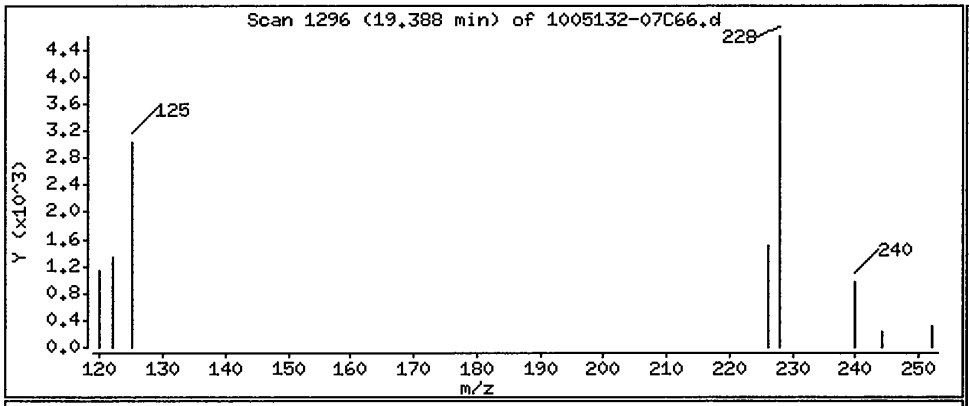
Client ID: SS83-0-1 Instrument: 5972hp66.i

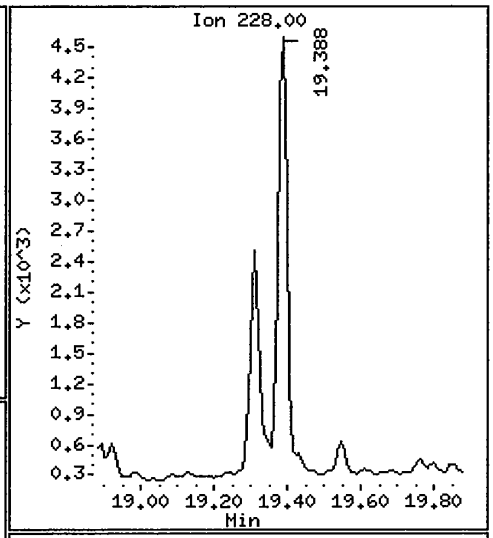
Sample Info: 1005132-07:2730

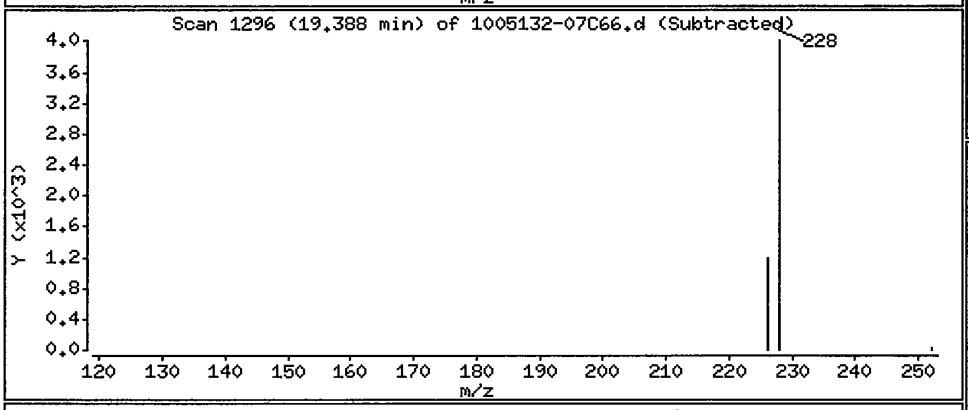
Volume Injected (uL): 2.0 Operator: 2730

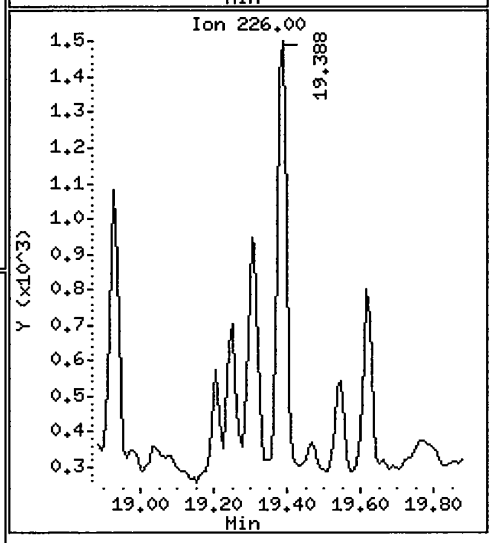
Column phase: Rtx-5MS Column diameter: 0.32

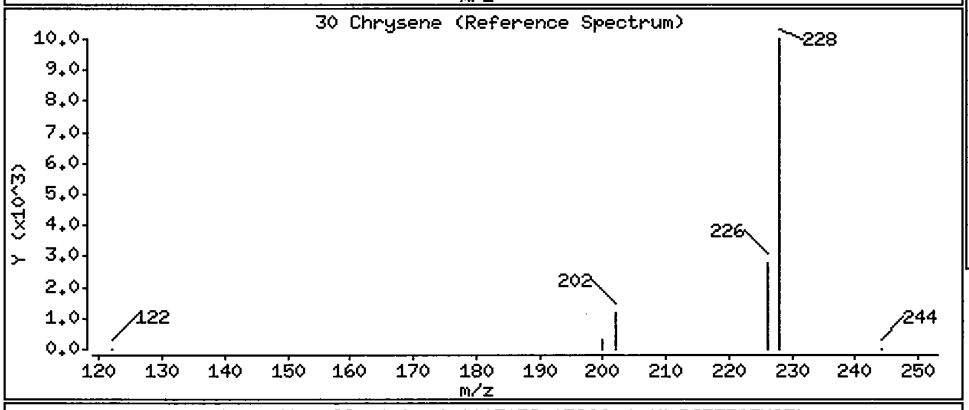
30 Chrysene Concentration: 1.0 ug/Kg

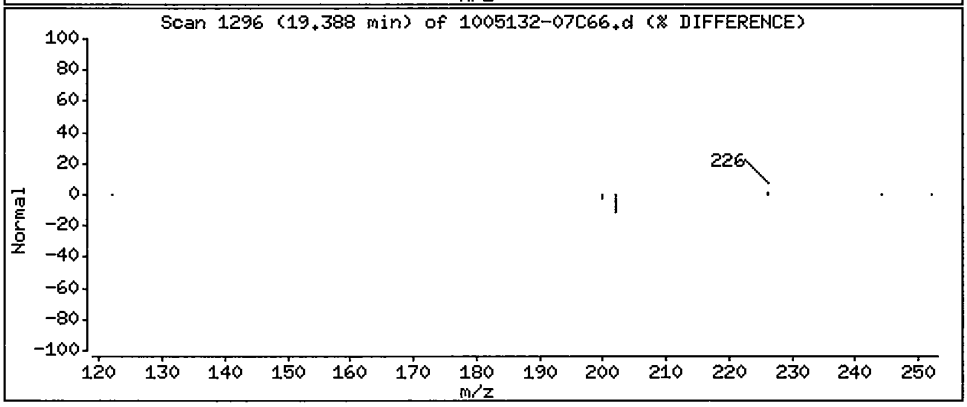












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

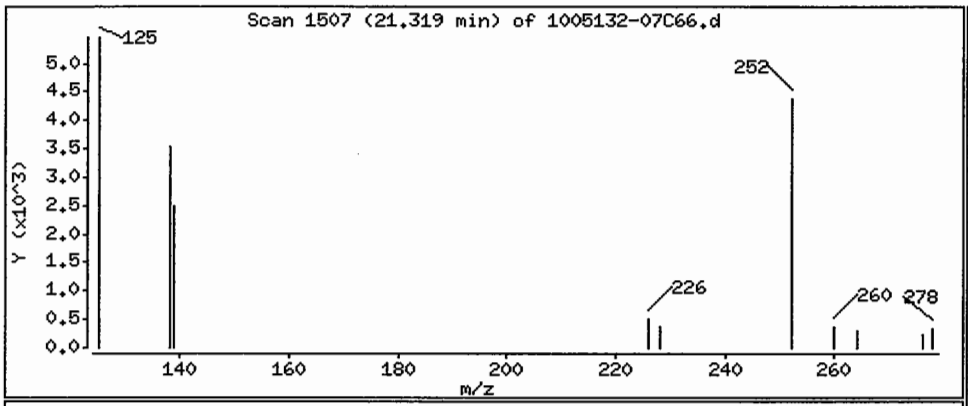
Client ID: SS83-0-1 Instrument: 5972hp66.i

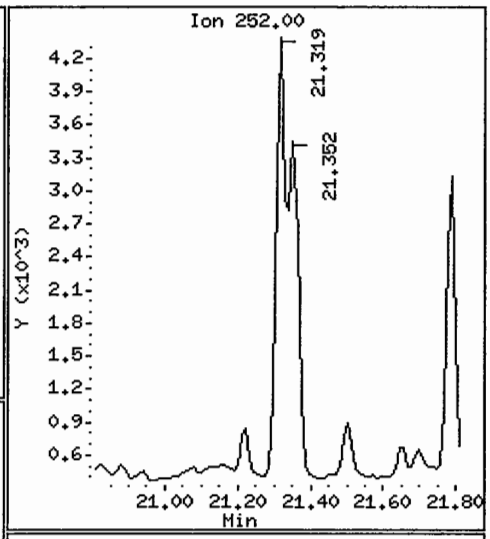
Sample Info: 1005132-07:2730

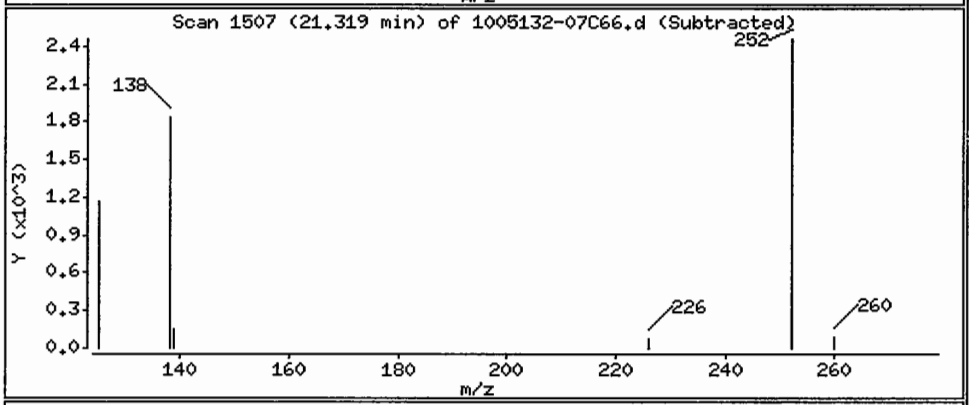
Volume Injected (uL): 2.0 Operator: 2730

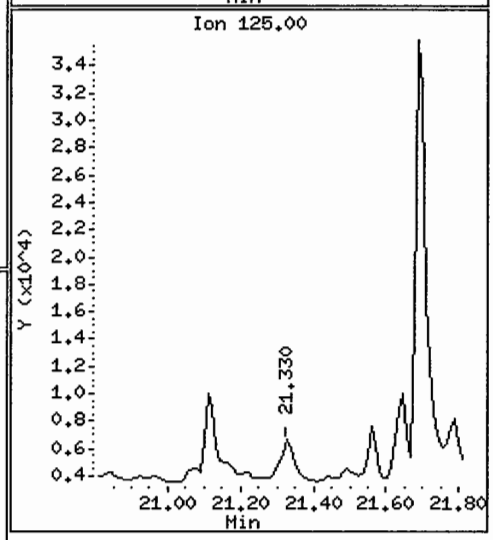
Column phase: Rtx-5MS Column diameter: 0.32

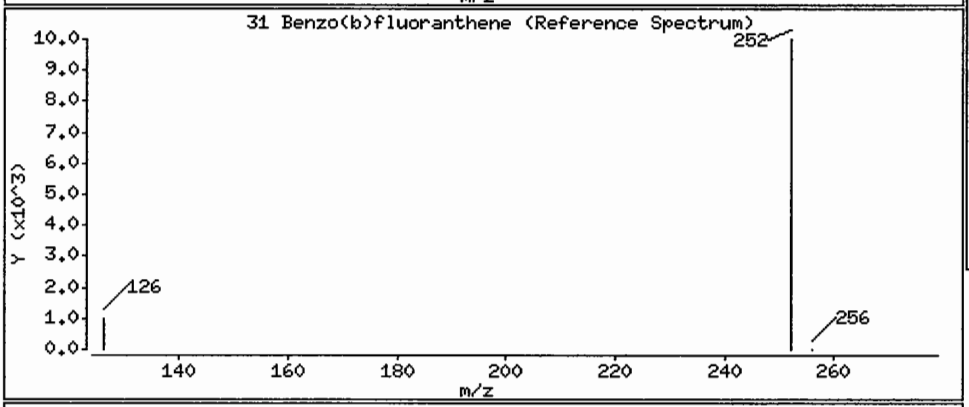
31 Benzo(b)fluoranthene Concentration: 1.4 ug/Kg

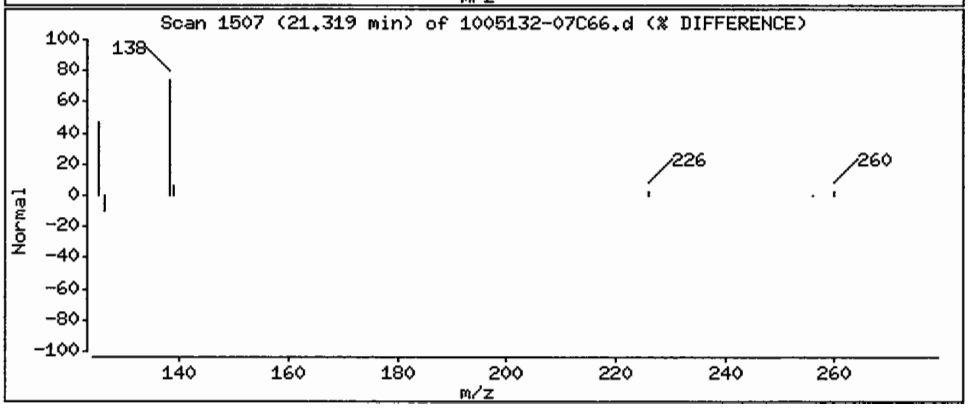












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

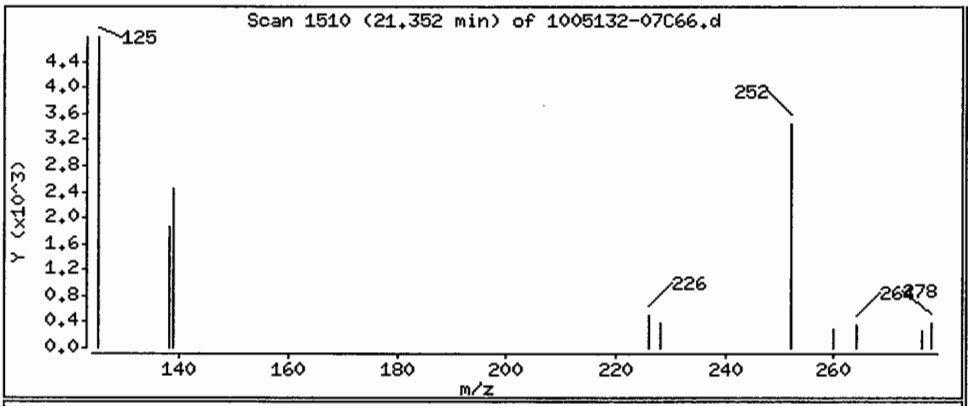
Client ID: SS83-0-1 Instrument: 5972hp66.i

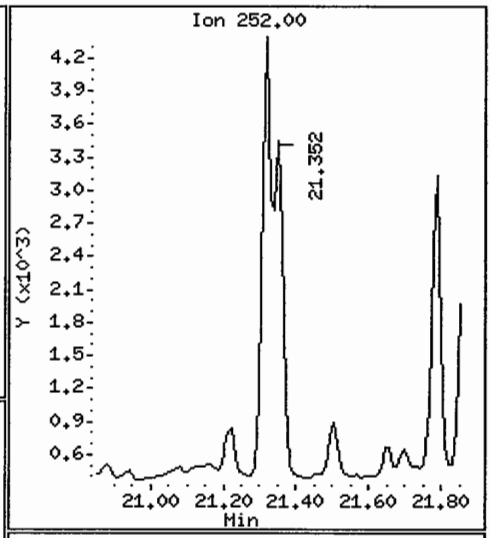
Sample Info: 1005132-07:2730

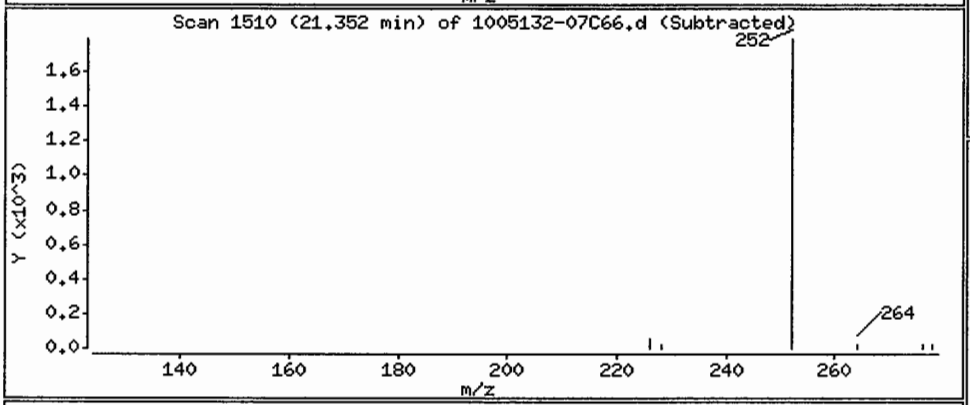
Volume Injected (uL): 2.0 Operator: 2730

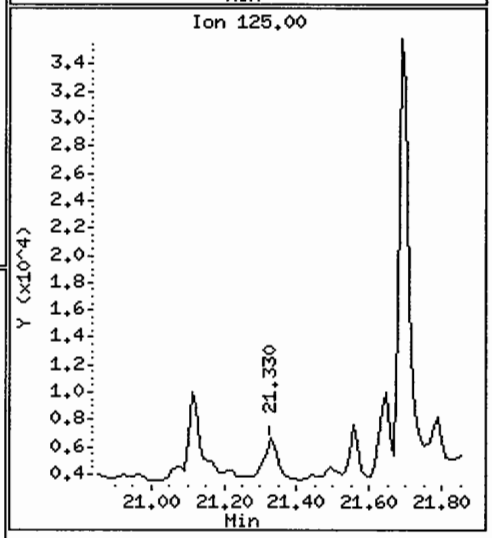
Column phase: Rtx-5MS Column diameter: 0.32

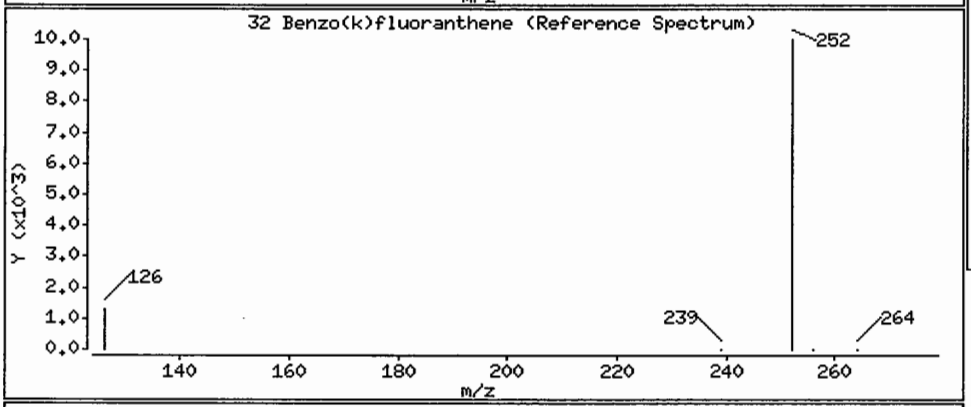
32 Benzo(k)fluoranthene Concentration: 0.90 ug/Kg

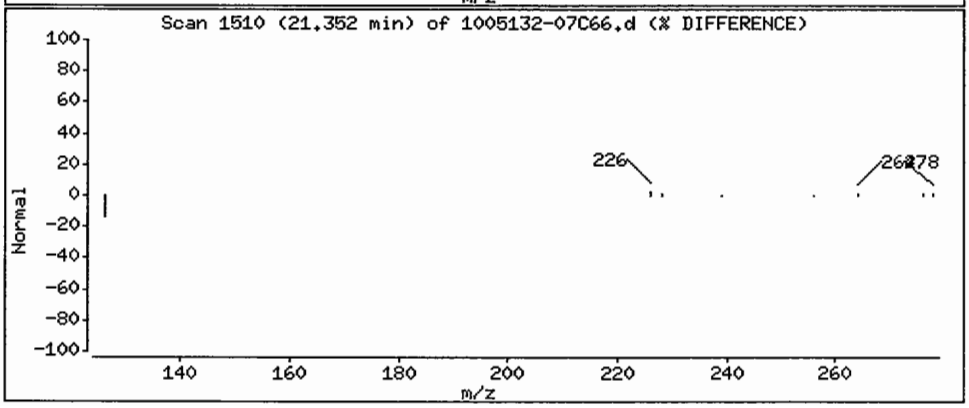












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

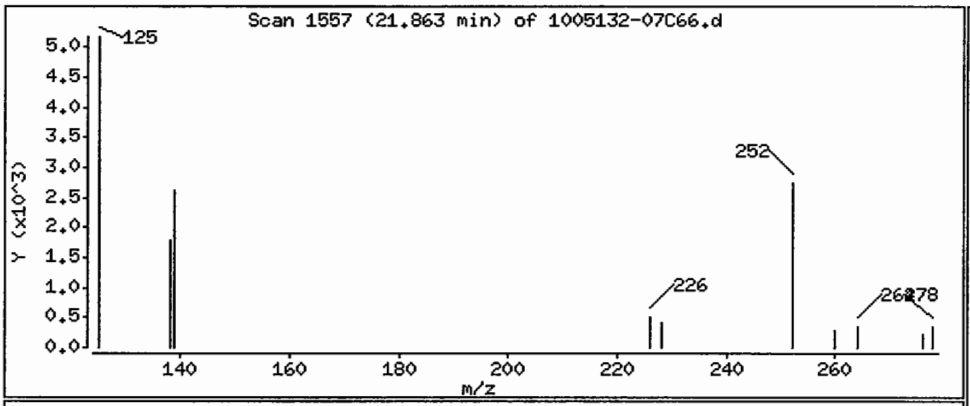
Client ID: SS83-0-1 Instrument: 5972hp66.i

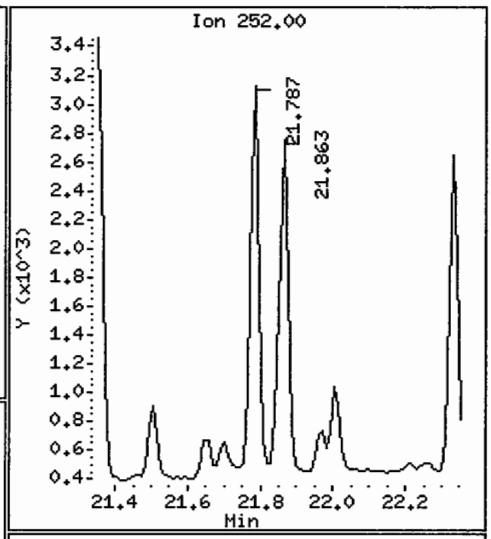
Sample Info: 1005132-07:2730

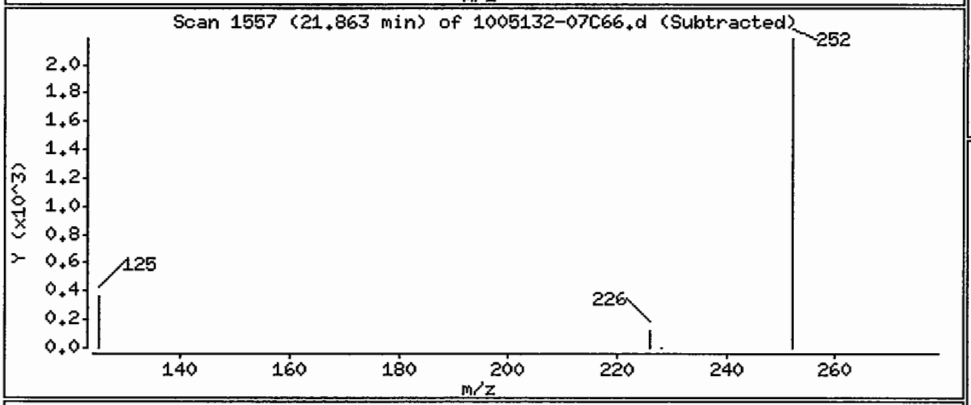
Volume Injected (uL): 2.0 Operator: 2730

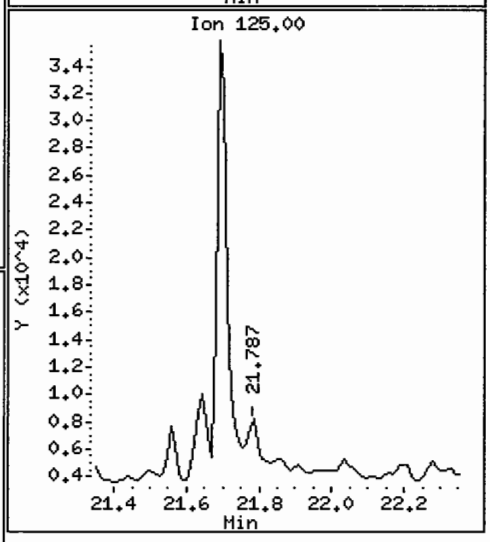
Column phase: Rtx-5MS Column diameter: 0.32

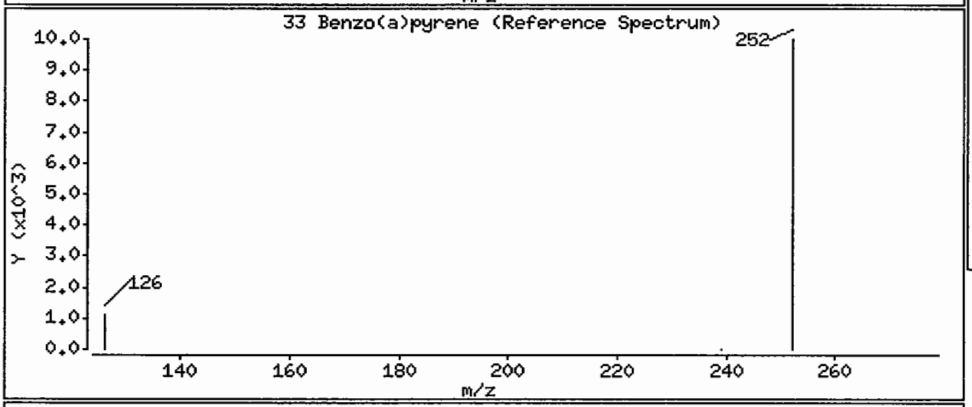
33 Benzo(a)pyrene Concentration: 0.78 ug/Kg

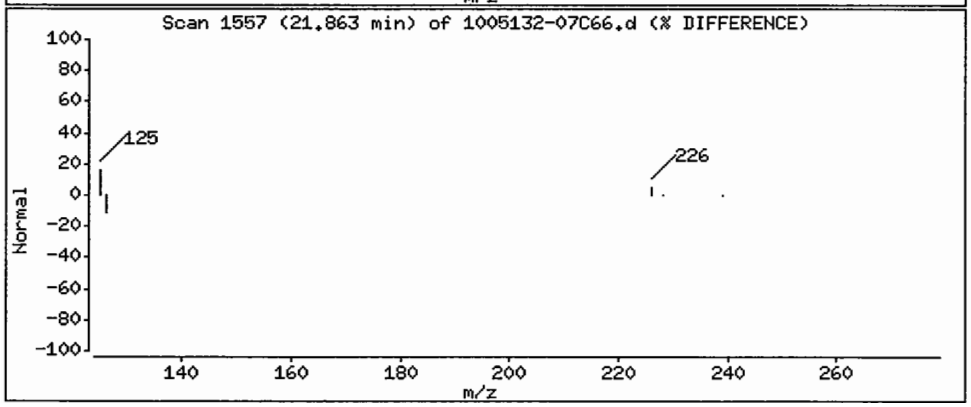












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

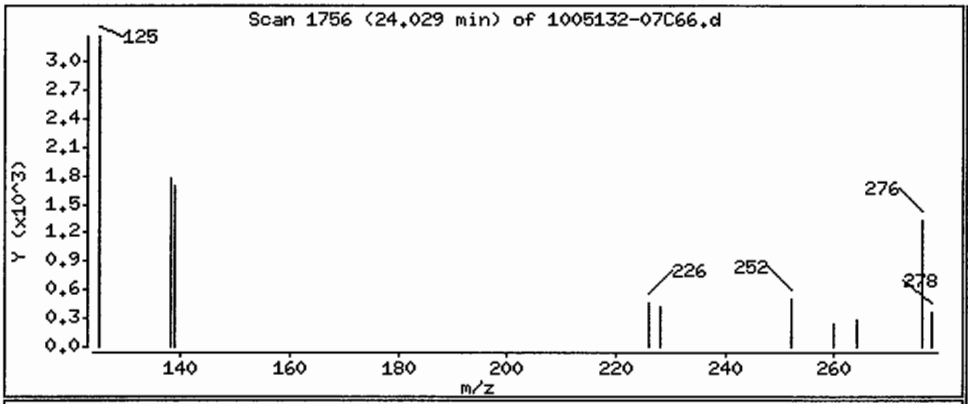
Client ID: SS83-0-1 Instrument: 5972hp66.i

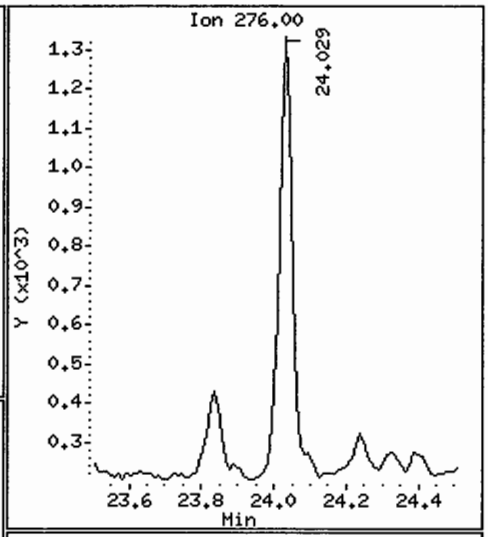
Sample Info: 1005132-07:2730

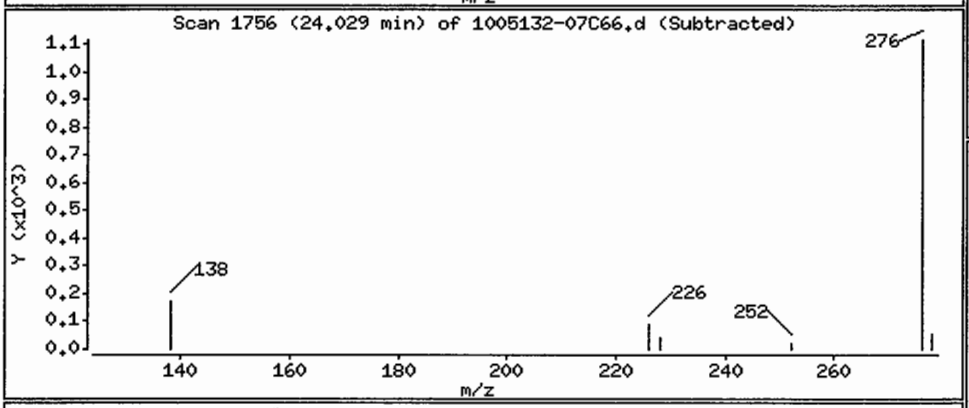
Volume Injected (uL): 2.0 Operator: 2730

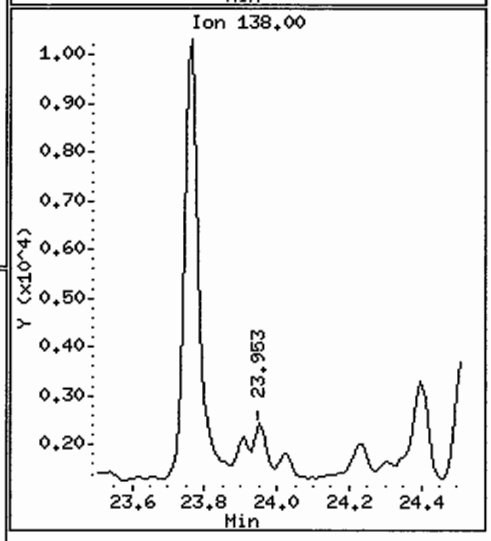
Column phase: Rtx-5MS Column diameter: 0.32

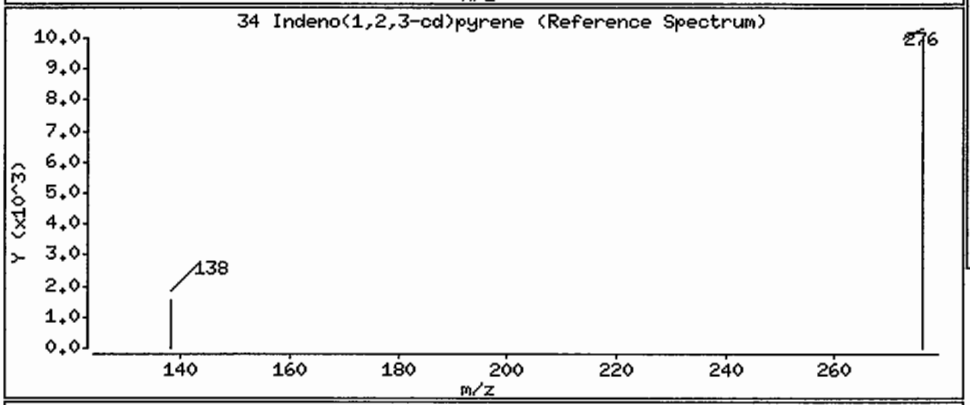
34 Indeno(1,2,3-cd)pyrene Concentration: 0.65 ug/Kg

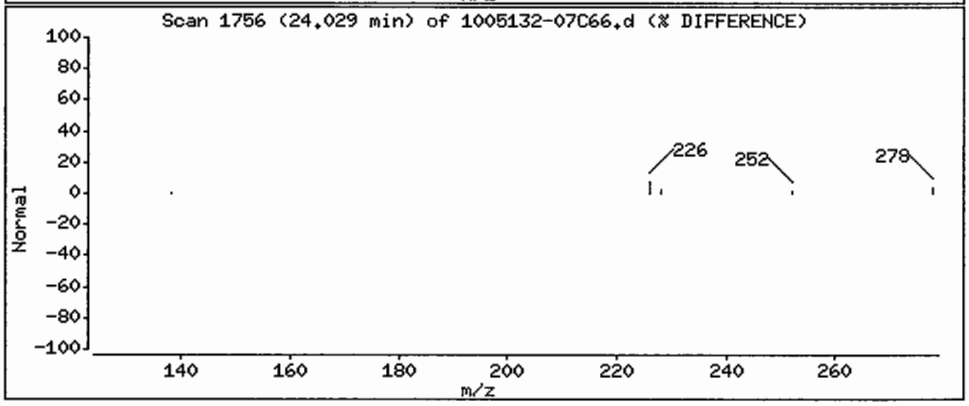












Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d

Date : 26-MAY-2010 16:59

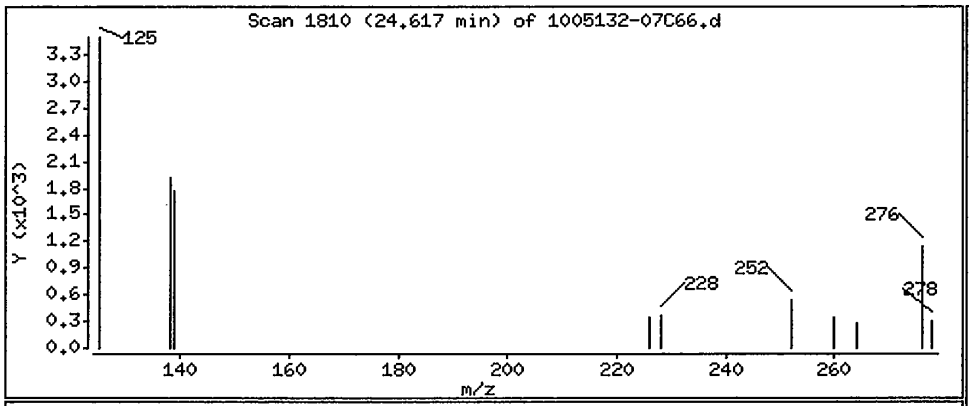
Client ID: SS83-0-1 Instrument: 5972hp66.i

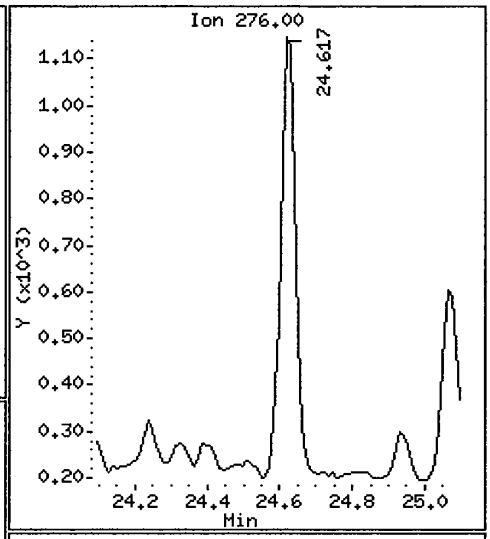
Sample Info: 1005132-07:2730

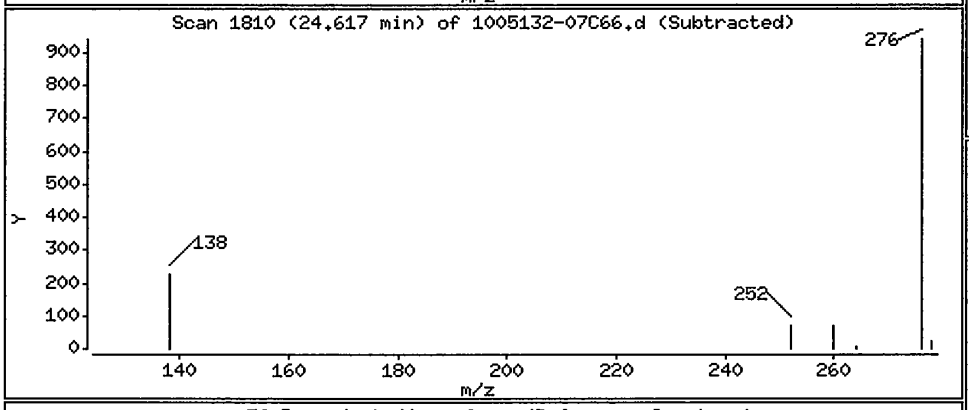
Volume Injected (uL): 2.0 Operator: 2730

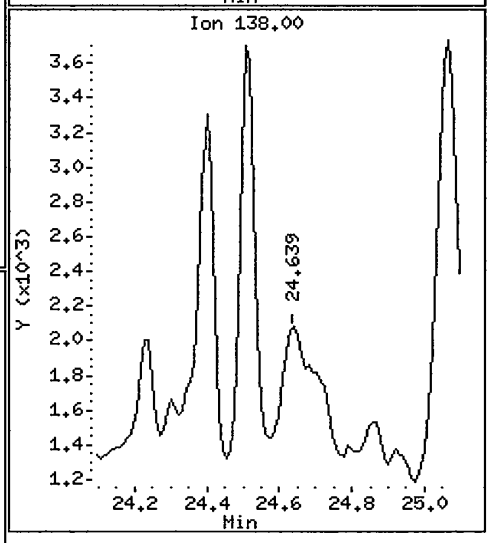
Column phase: Rtx-5MS Column diameter: 0.32

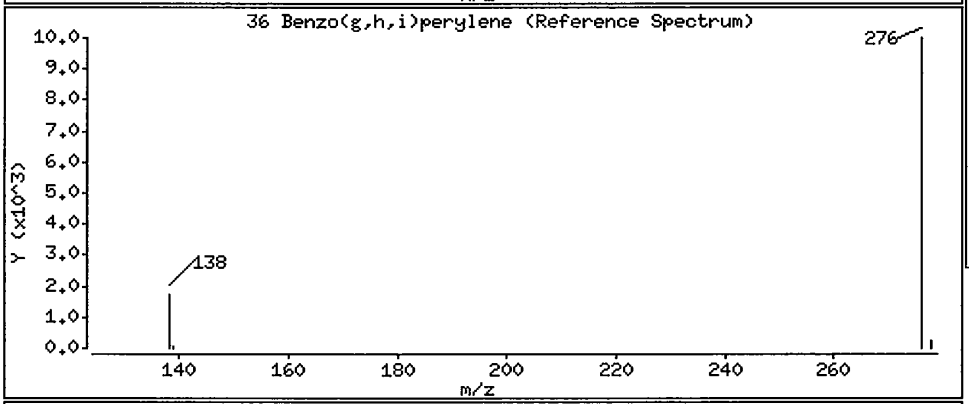
36 Benzo(g,h,i)perylene Concentration: 0.54 ug/Kg

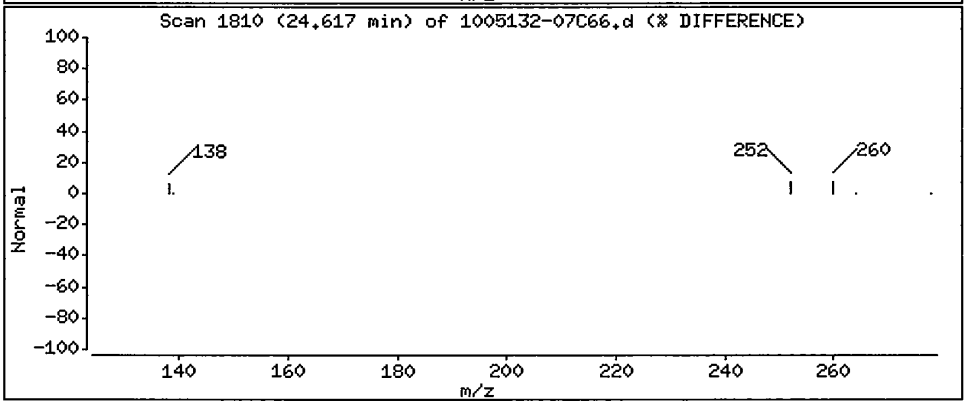






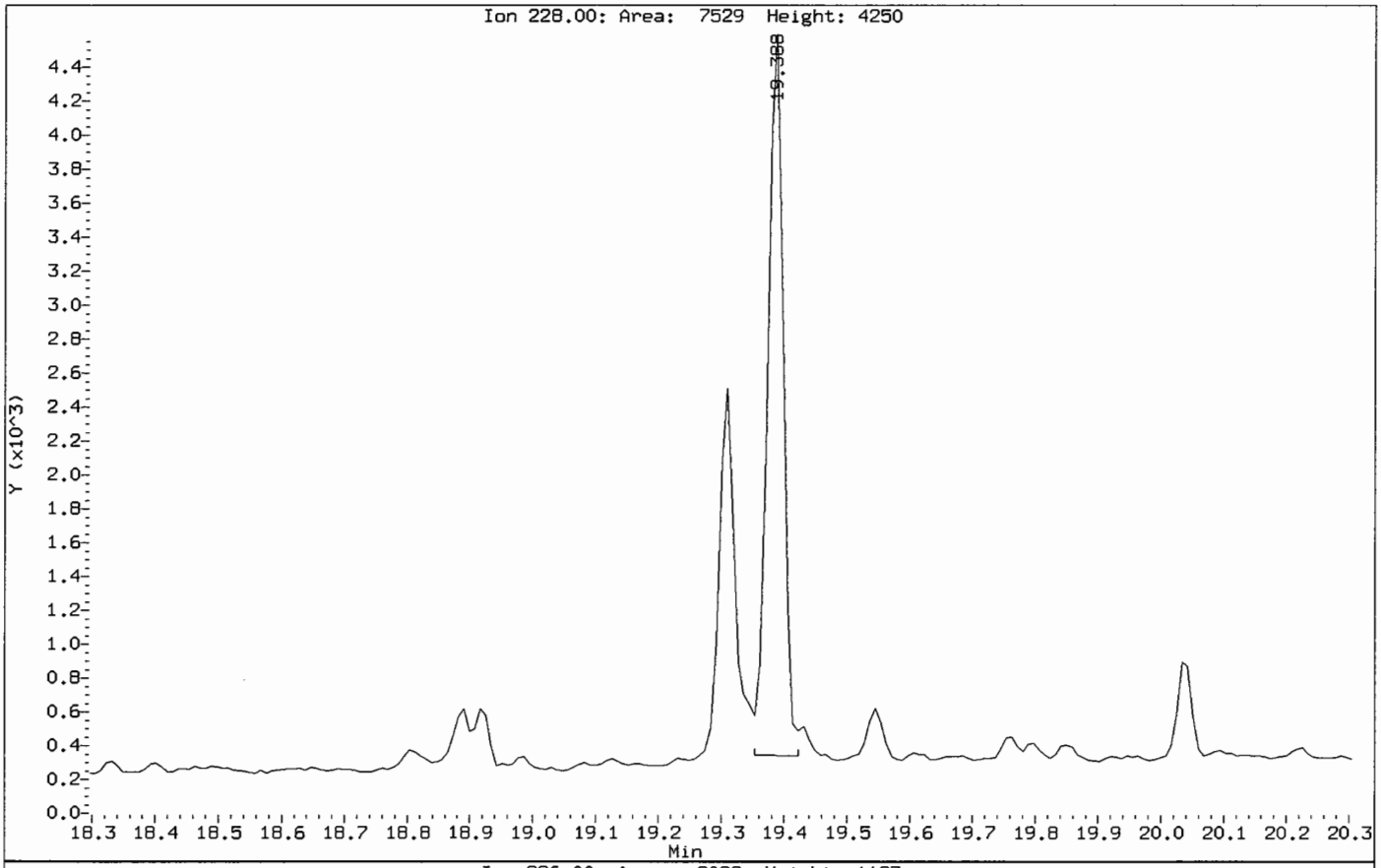


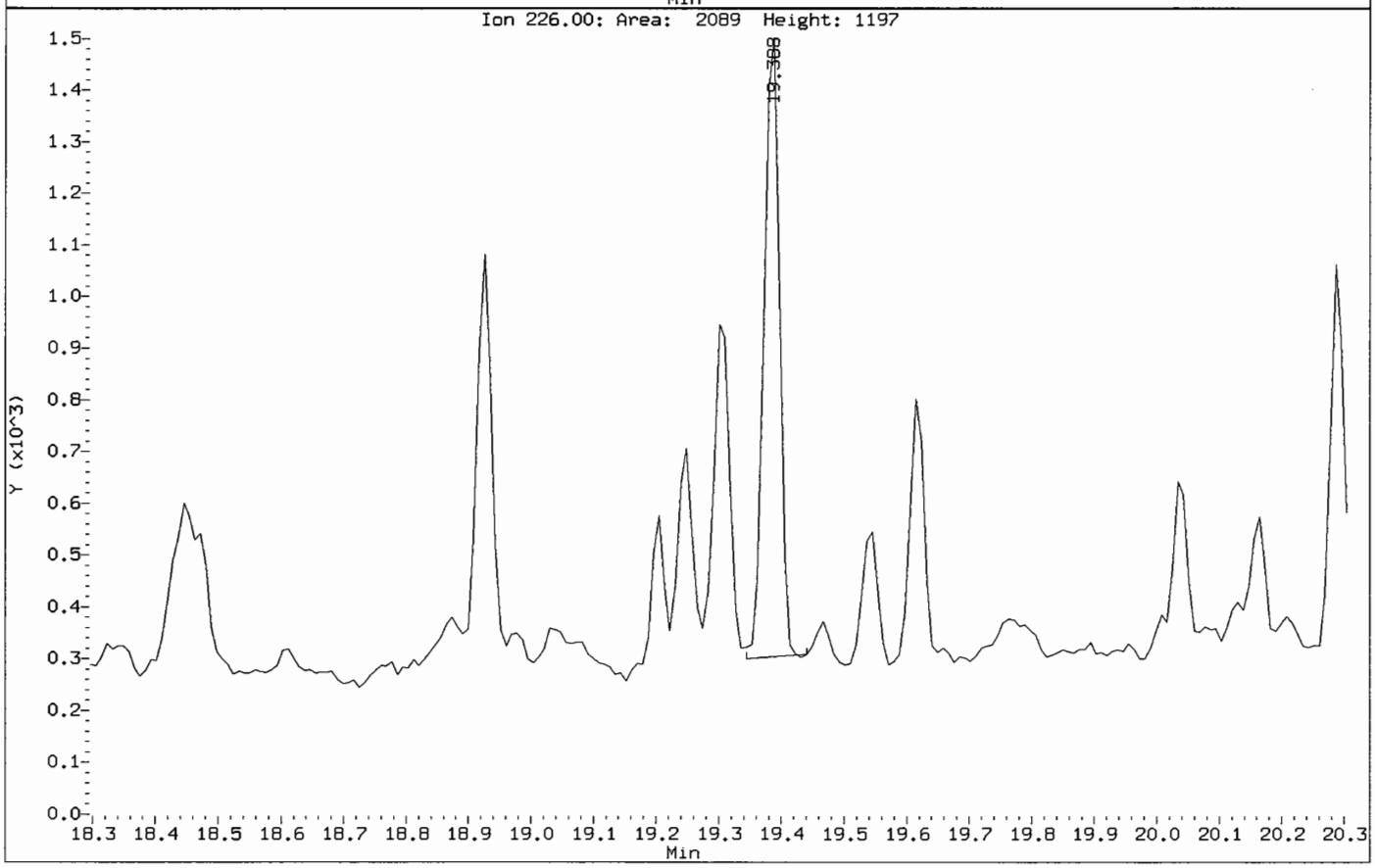




Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Injection Date: 26-MAY-2010 16:59
Instrument: 5972hp66.i
Client Sample ID: SS83-0-1

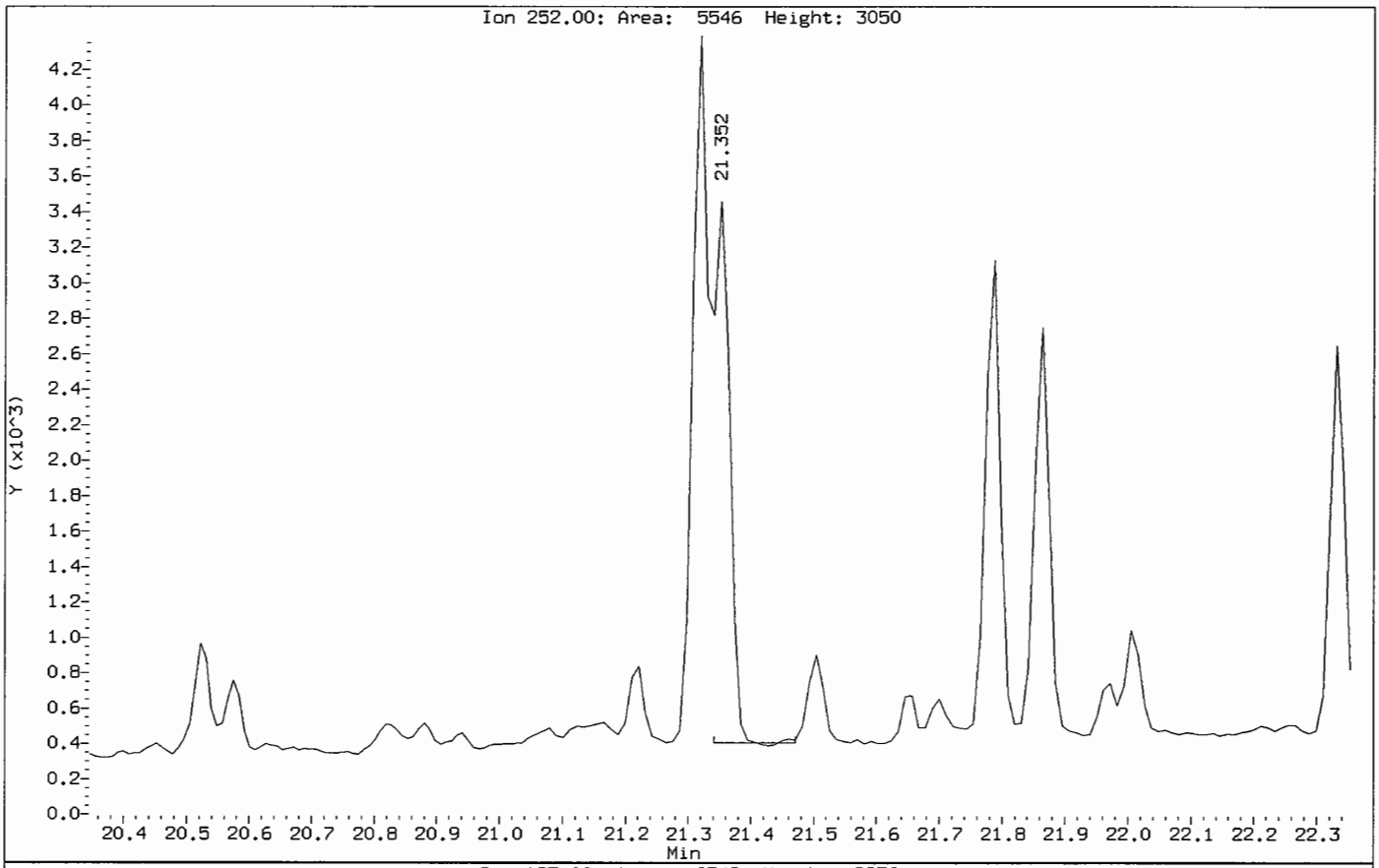
Compound: Benzo(a)anthracene
CAS Number: 56-55-3

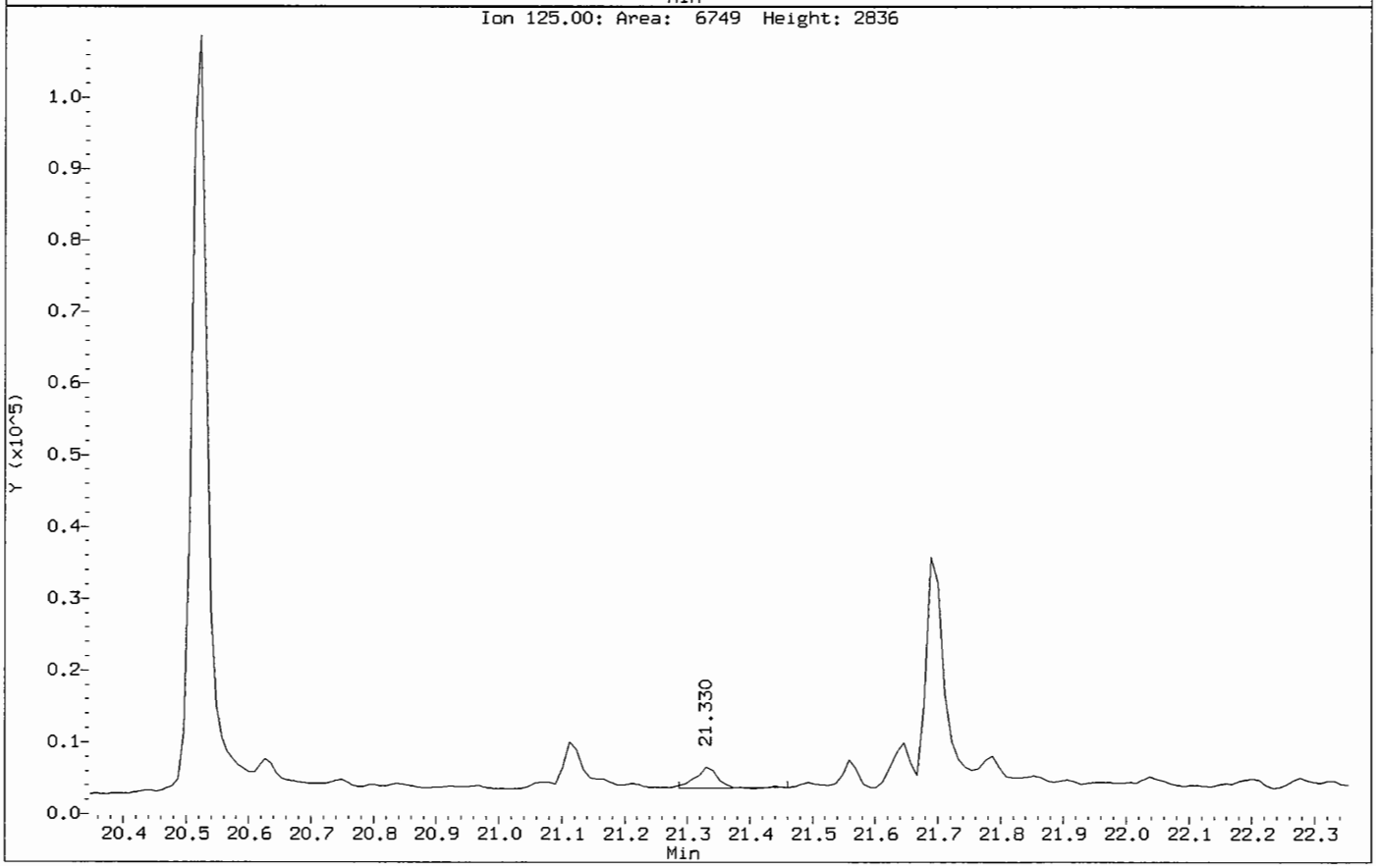




Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Injection Date: 26-MAY-2010 16:59
Instrument: 5972hp66.i
Client Sample ID: SS83-0-1

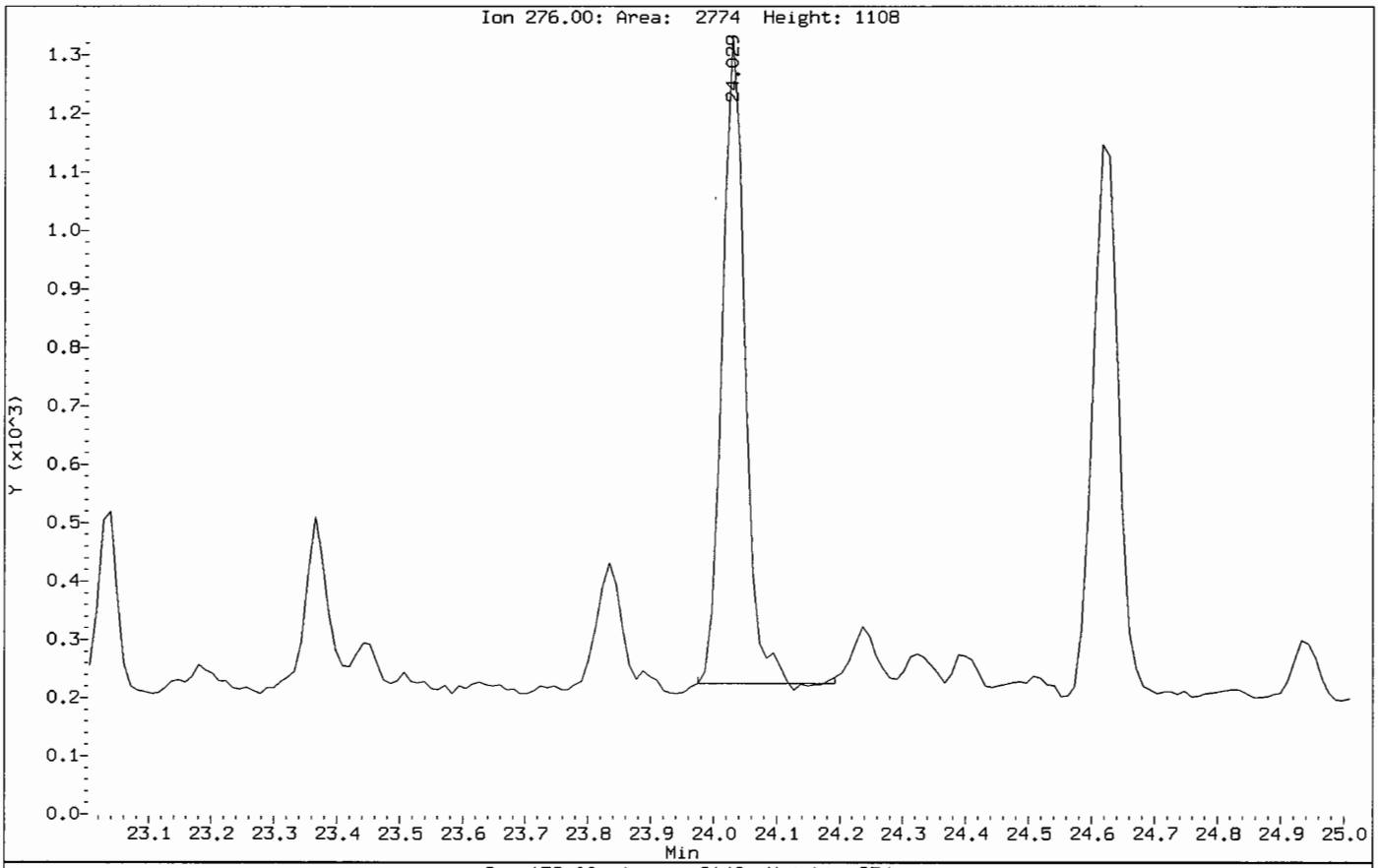
Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

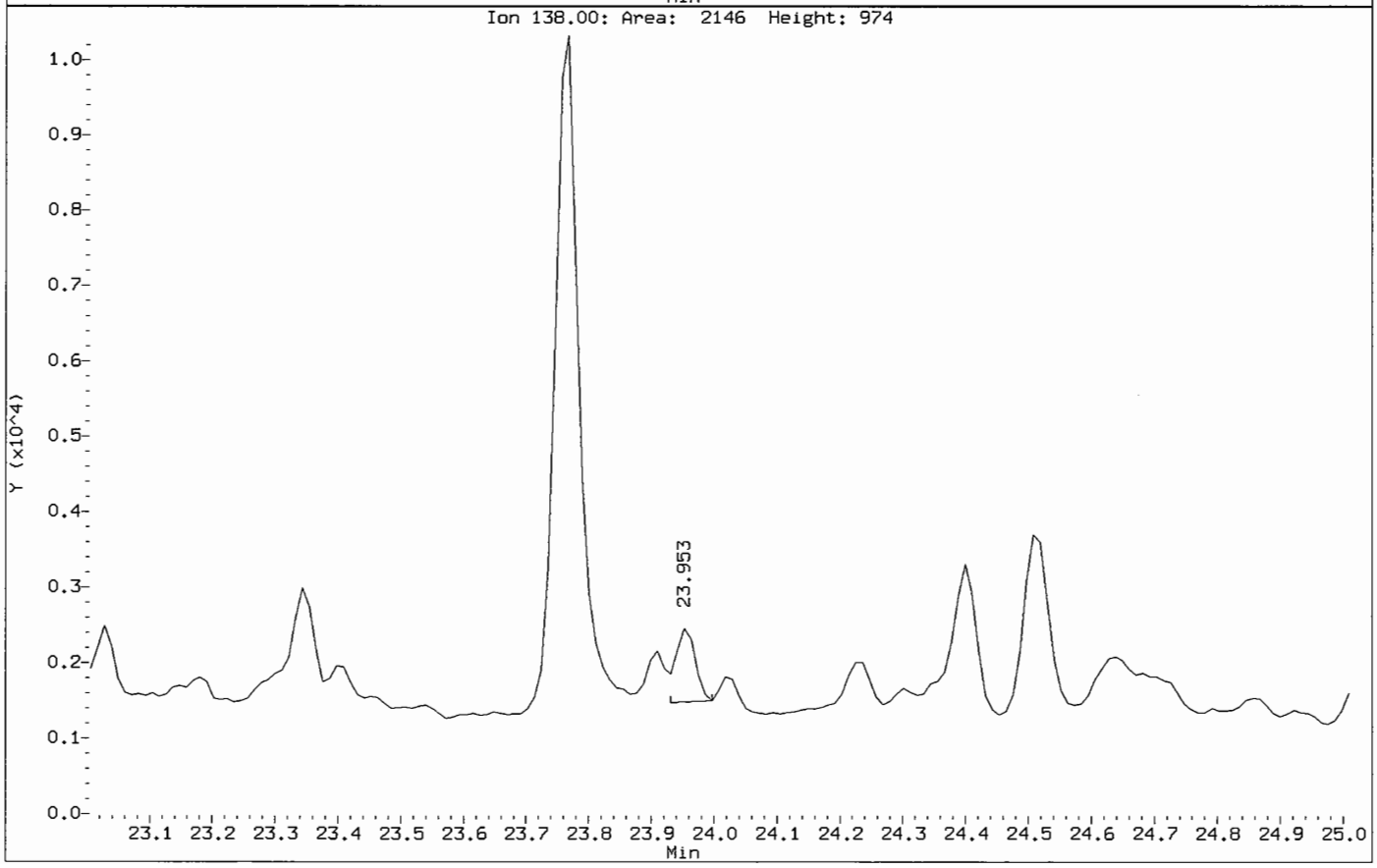




Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Injection Date: 26-MAY-2010 16:59
Instrument: 5972hp66.i
Client Sample ID: SS83-0-1

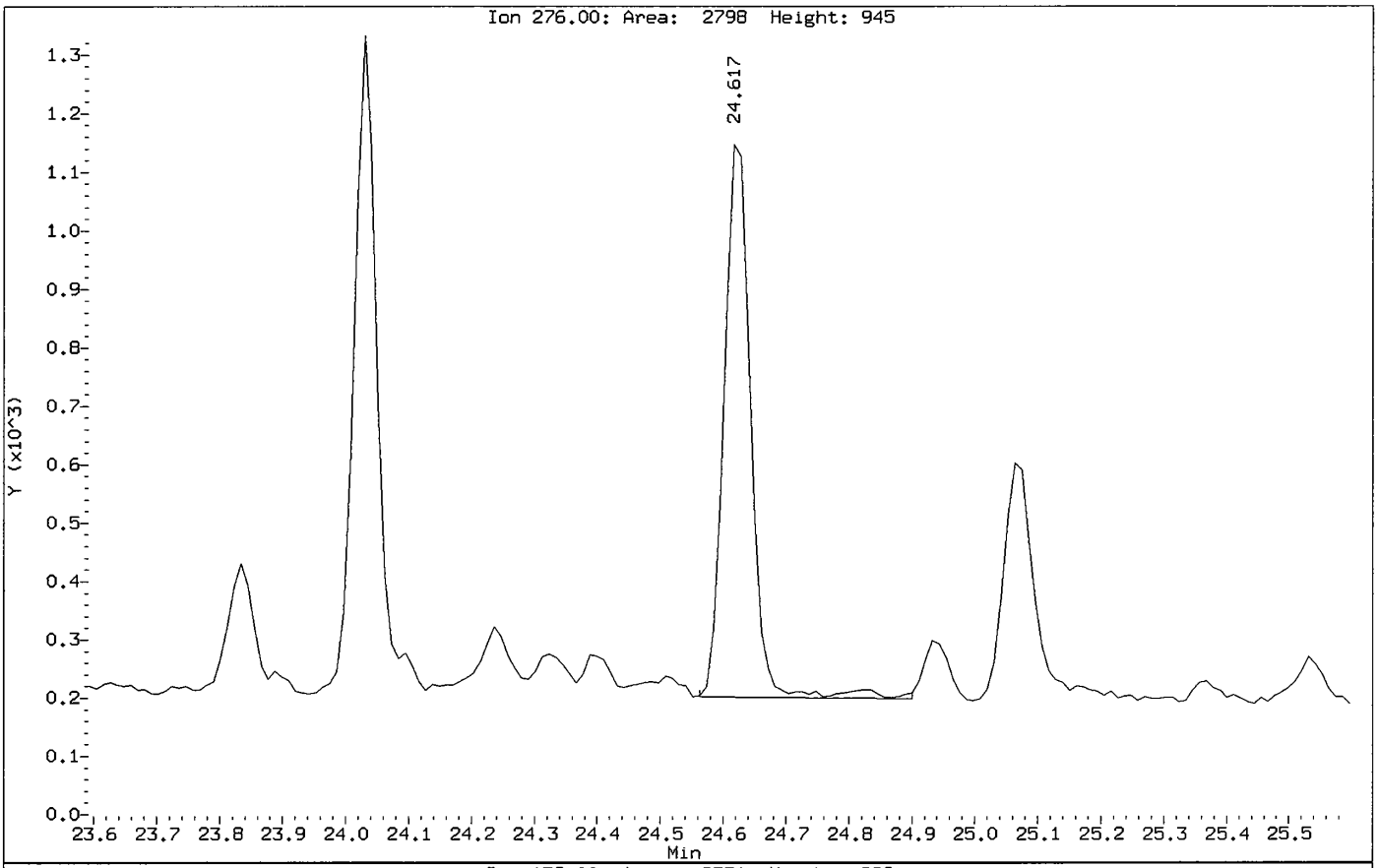
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5

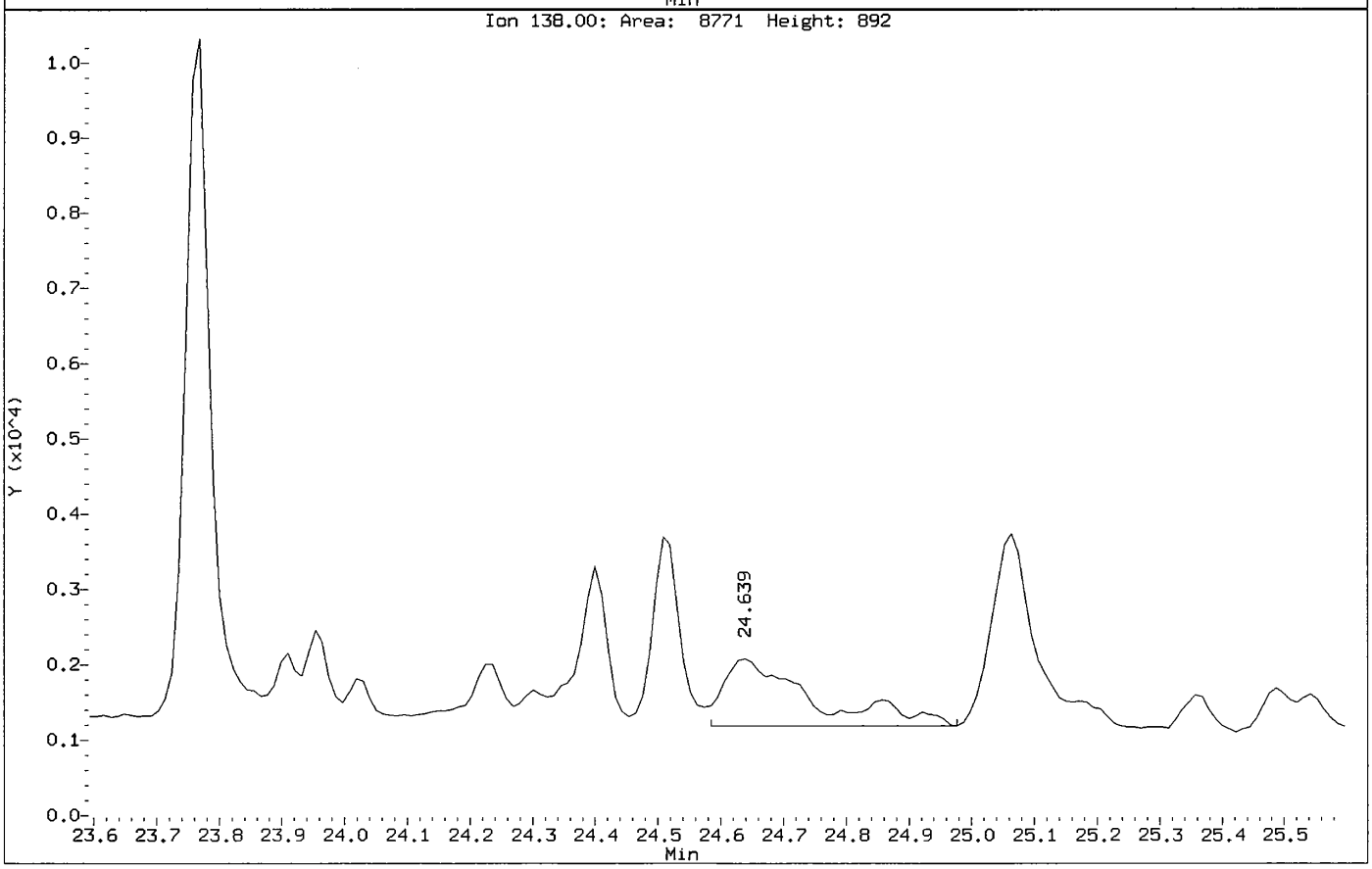




Data File: /chem/5972hp66.i/DS100525C66.b/1005132-07C66.d
Injection Date: 26-MAY-2010 16:59
Instrument: 5972hp66.i
Client Sample ID: SS83-0-1

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS83-0-1RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-07JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 6 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

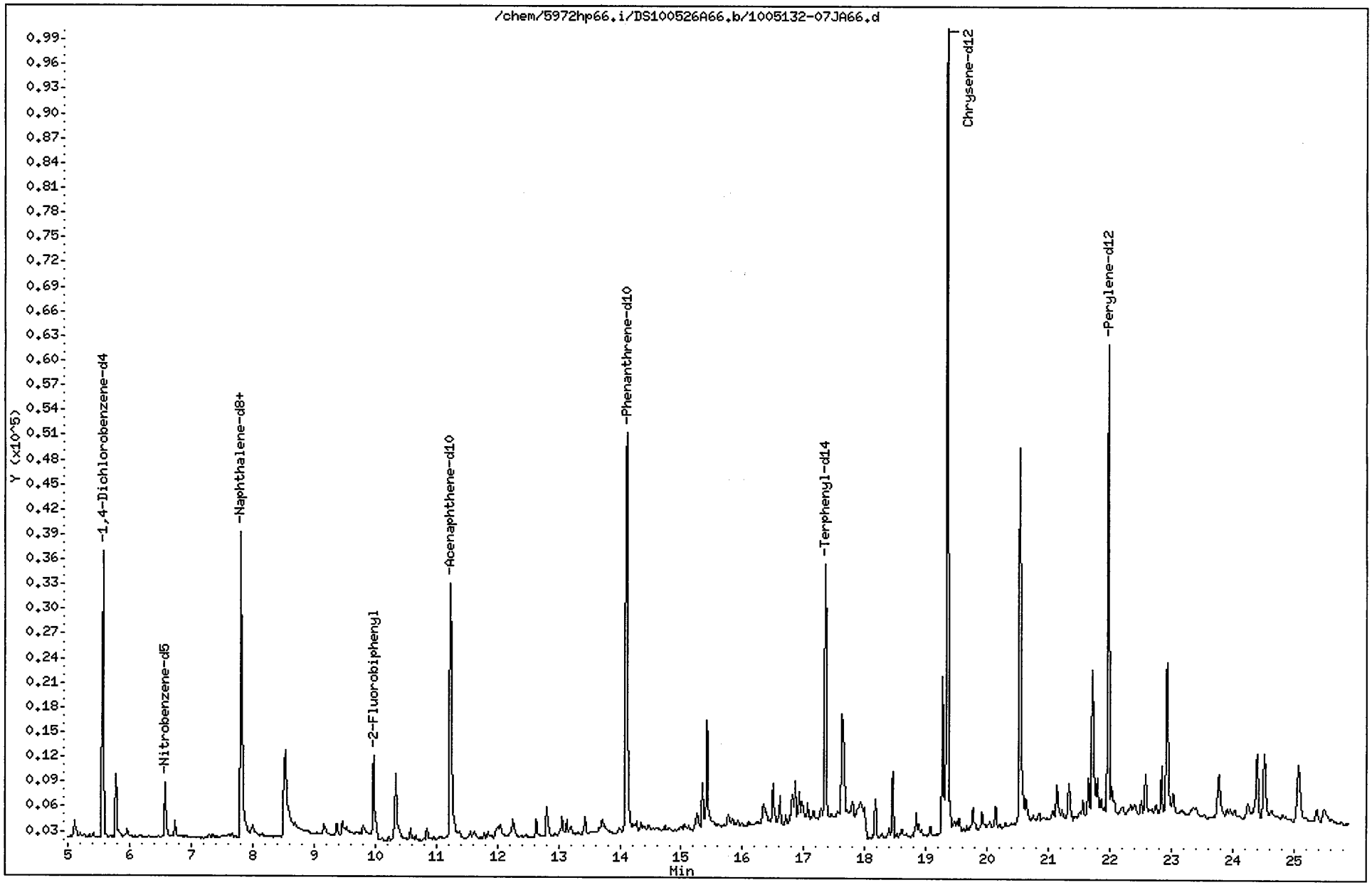
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.7	J
91-57-6	2-Methylnaphthalene	8.8	U
208-96-8	Acenaphthylene	8.8	U
83-32-9	Acenaphthene	8.8	U
86-73-7	Fluorene	8.8	U
85-01-8	Phenanthrene	8.8	U
120-12-7	Anthracene	8.8	U
206-44-0	Fluoranthene	8.8	U
129-00-0	Pyrene	0.98	J
56-55-3	Benzo(a)anthracene	8.8	U
218-01-9	Chrysene	0.99	J
205-99-2	Benzo(b)fluoranthene	1.3	J
207-08-9	Benzo(k)fluoranthene	0.95	J
50-32-8	Benzo(a)pyrene	0.71	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.65	J
53-70-3	Dibenzo(a,h)anthracene	8.8	U
191-24-2	Benzo(g,h,i)perylene	0.55	J

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Date : 27-MAY-2010 00:17
Client ID: SS83-0-1RE
Sample Info: 1005132-07;2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Report Date: 03-Jun-2010 16:30

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Lab Smp Id: 1005132-07 Client Smp ID: SS83-0-1RE
Inj Date : 27-MAY-2010 00:17
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-07:2730
Misc Info : SS83-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 15:45 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	6.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.571	5.558	(1.000)	19683	2.00000	(a)
* 2 Naphthalene-d8	136	7.813	7.813	(1.000)	52118	2.00000	(a)
* 3 Acenaphthene-d10	164	11.230	11.231	(1.000)	26805	2.00000	(a)
* 4 Phenanthrene-d10	188	14.113	14.099	(1.000)	80906	2.00000	(a)
* 5 Chrysene-d12	240	19.345	19.336	(1.000)	127666	2.00000	(a)
* 6 Perylene-d12	264	21.971	21.973	(1.000)	74610	2.00000	(a)
$ 9 Nitrobenzene-d5	82	6.574	6.575	(0.841)	8166	0.70413	12
$ 10 2-Fluorobiphenyl	172	9.976	9.964	(0.888)	17384	0.62149	11
$ 12 Terphenyl-d14	244	17.347	17.346	(0.897)	38544	0.83093	15
13 Naphthalene	128	7.852	7.839	(1.005)	3044	0.09442	1.7(aM)
15 2-Methylnaphthalene	141	Compound Not Detected.					
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

2
6/3/10 MA

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Report Date: 03-Jun-2010 16:30

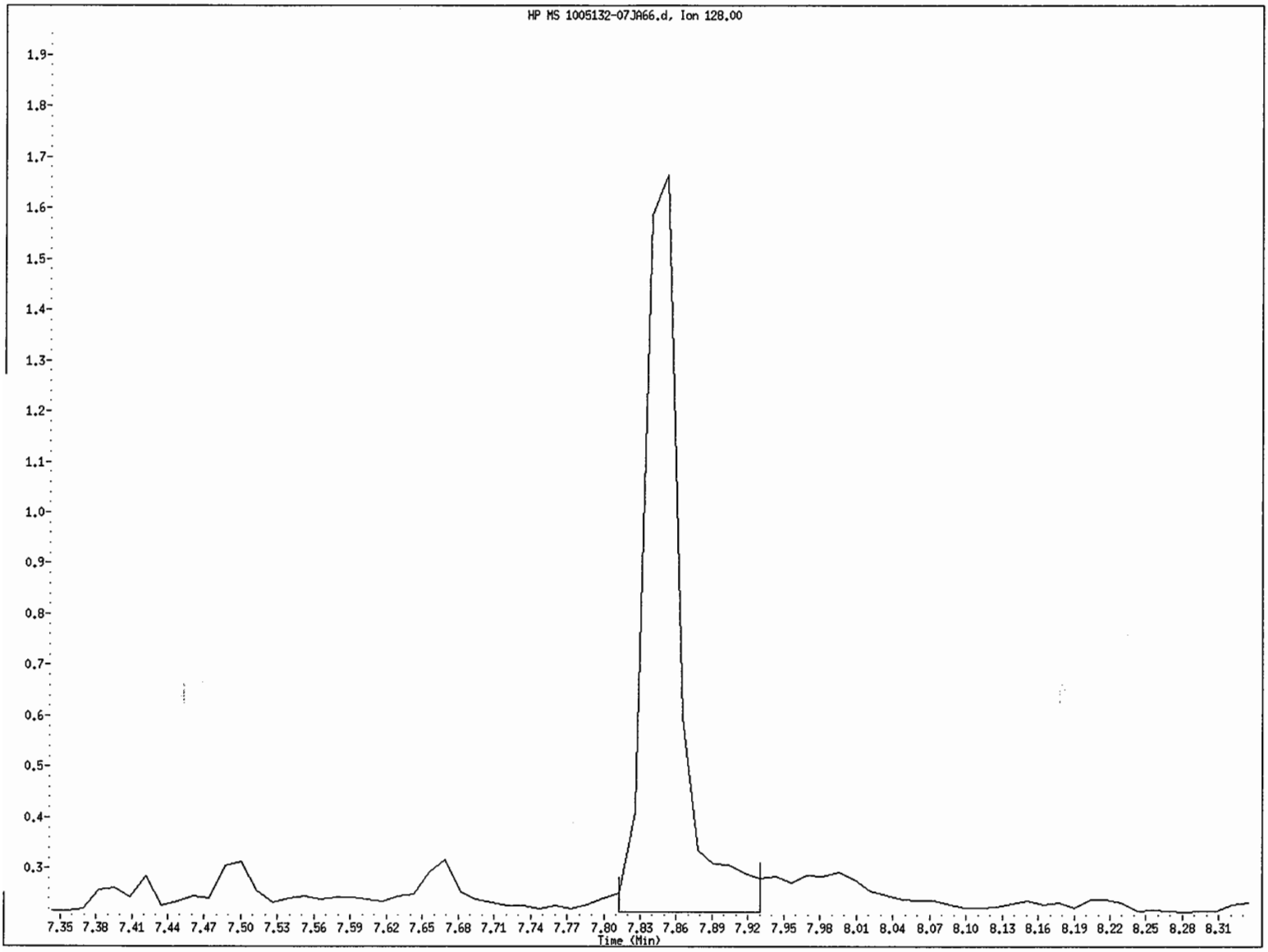
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	16.930	16.929	(0.875)	5088	0.05519	0.98(aM)
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	19.389	19.388	(1.002)	4204	0.05593	0.99(a)
31 Benzo(b)fluoranthene	252	21.318	21.319	(0.970)	3641	0.07400	1.3(a)
32 Benzo(k)fluoranthene	252	21.351	21.352	(0.972)	2829	0.05343	0.95(aM)
33 Benzo(a)pyrene	252	21.863	21.864	(0.995)	1784	0.04023	0.71(a)
34 Indeno(1,2,3-cd)pyrene	276	24.029	24.030	(1.094)	1424	0.03640	0.65(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.616	24.607	(1.120)	1334	0.03077	0.55(aM)

6/3/10

QC Flag Legend

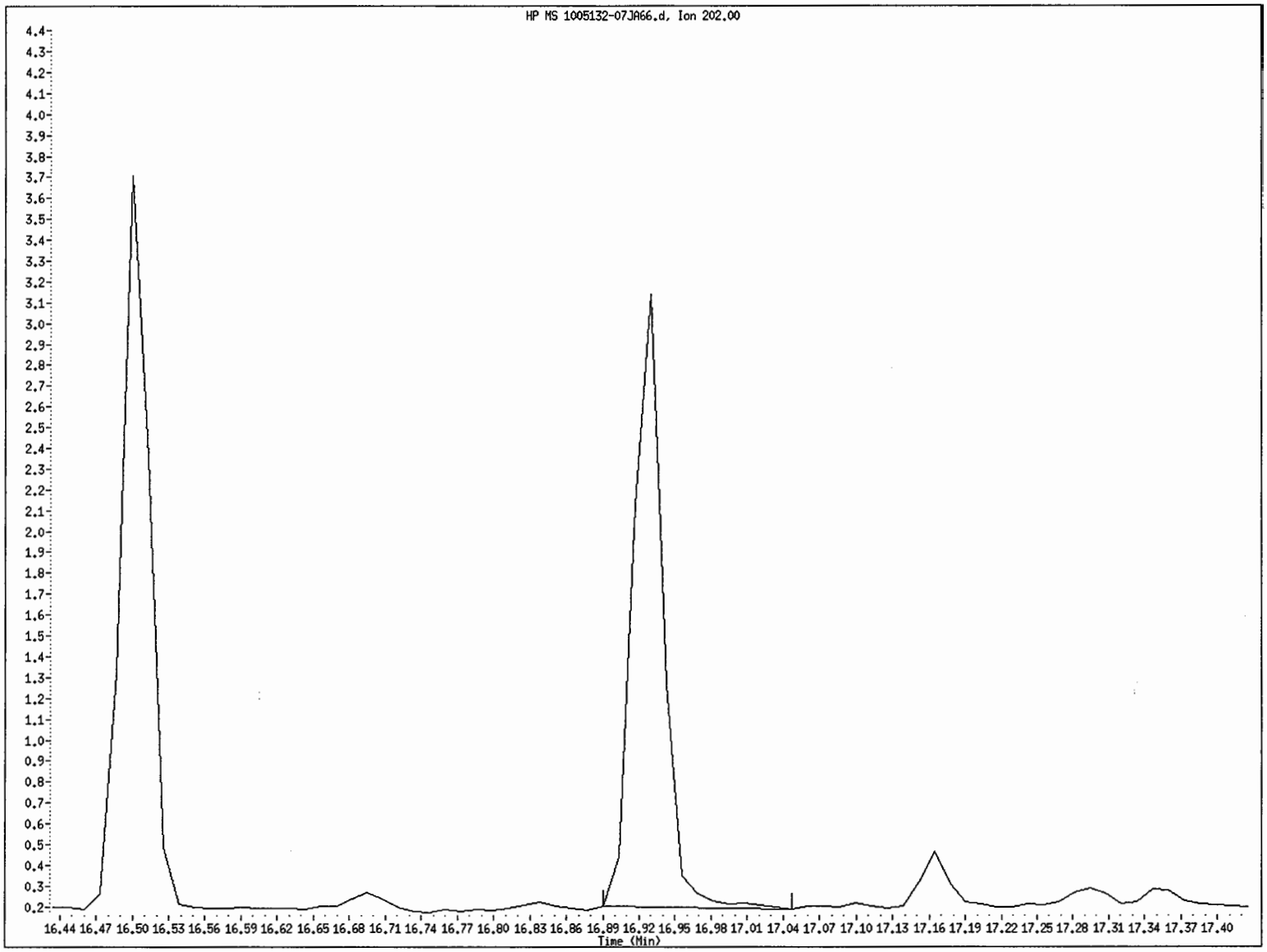
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Naphthalene CAS Number 91-20-3 Area = 3044 Manually integrated



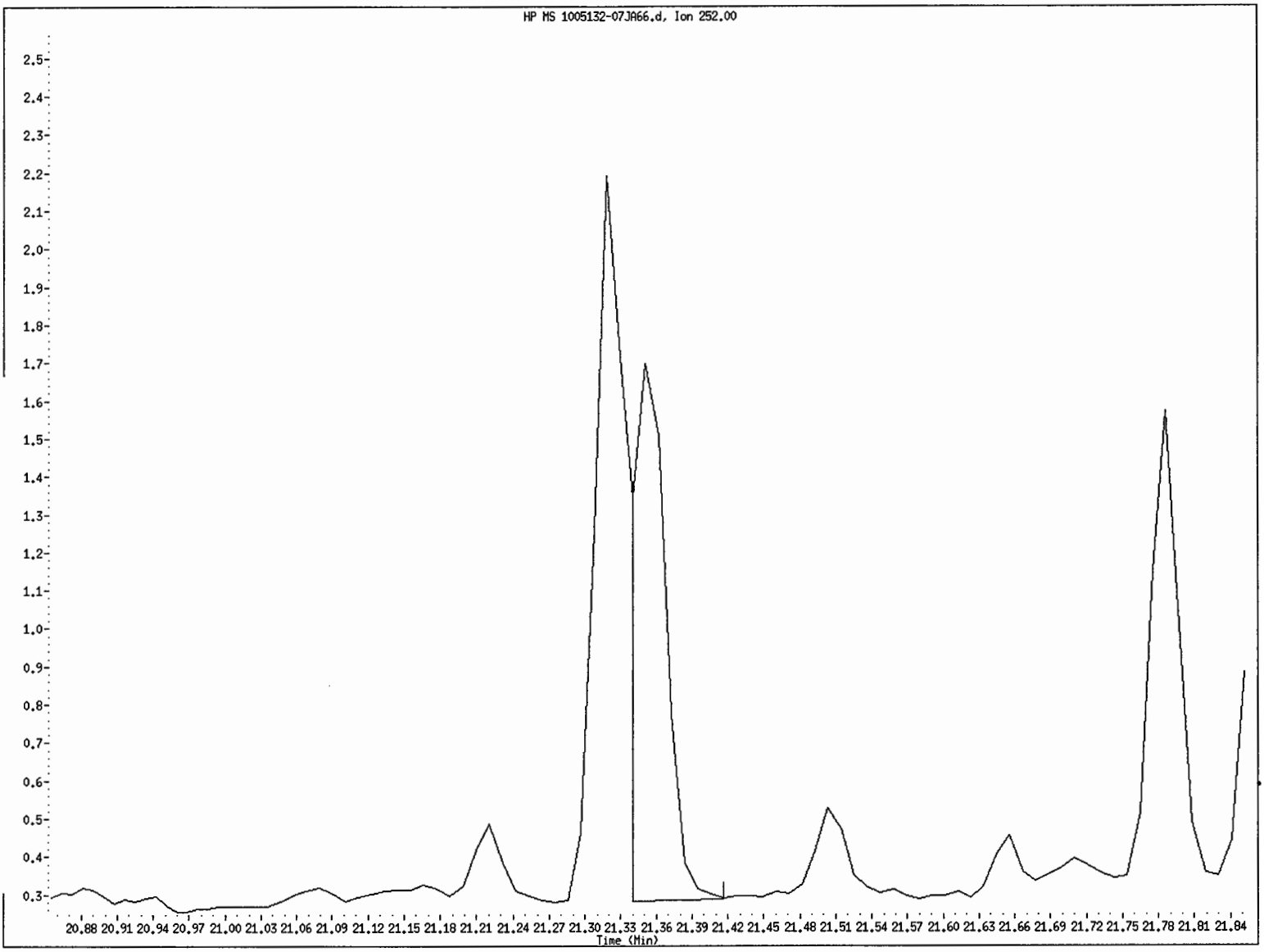
File name: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Client ID: SS83-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 00:17
Retention Time: 7.85
Operator ID: 2730

Pyrene CAS Number 129-00-0 Area = 5088 Manually integrated



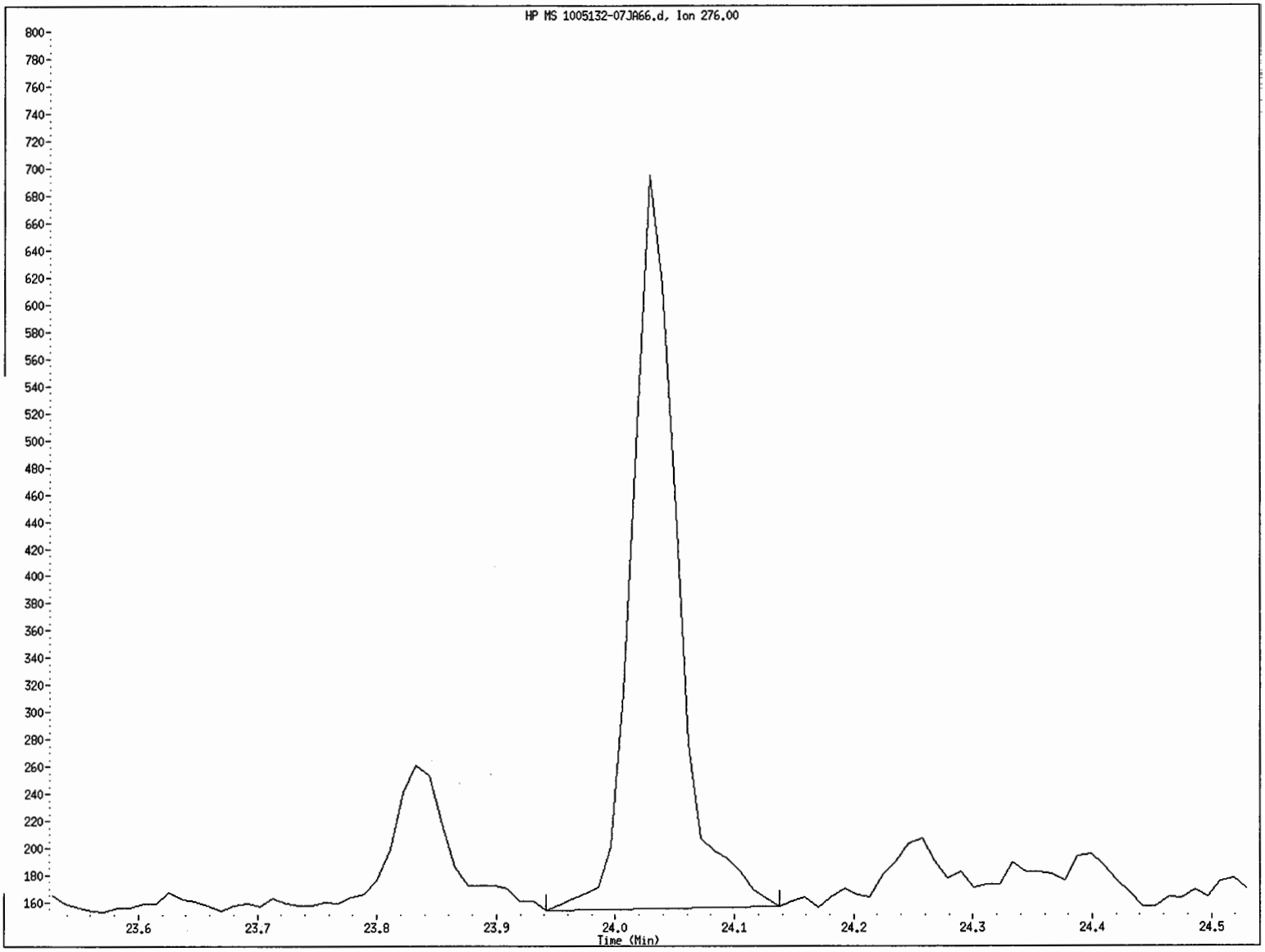
File name: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Client ID: SS83-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 00:17
Retention Time: 16.93
Operator ID: 2730

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 2829 Manually integrated



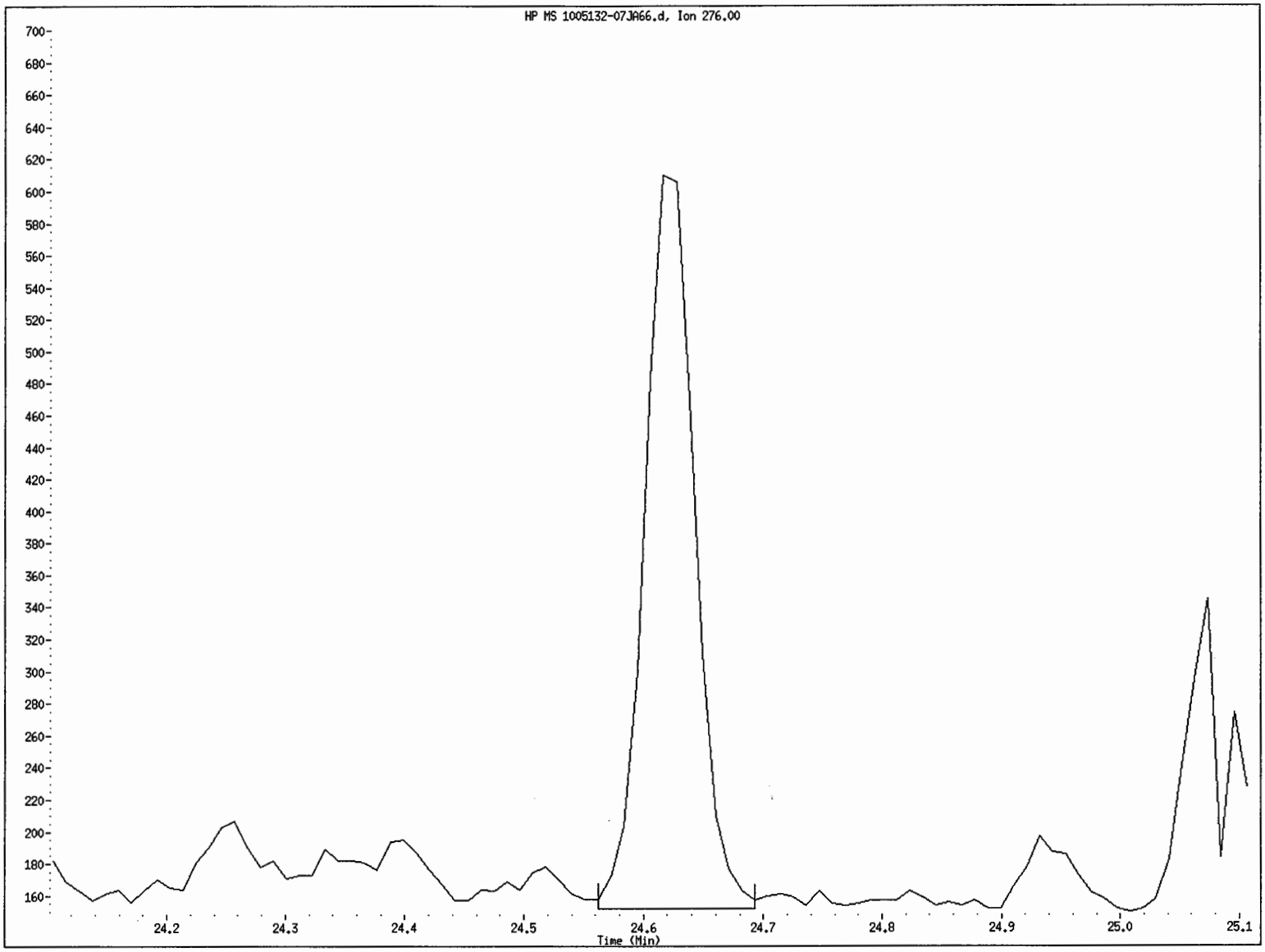
File name: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Client ID: SS83-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 00:17
Retention Time: 21.35
Operator ID: 2730

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 1424 Manually integrated



File name: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Client ID: SS83-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 00:17
Retention Time: 24.03
Operator ID: 2730

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 1334 Manually integrated



File name: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Client ID: SS83-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 00:17
Retention Time: 24.62
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d

Date : 27-MAY-2010 00:17

Client ID: SS83-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-07:2730

Volume Injected (uL): 2.0

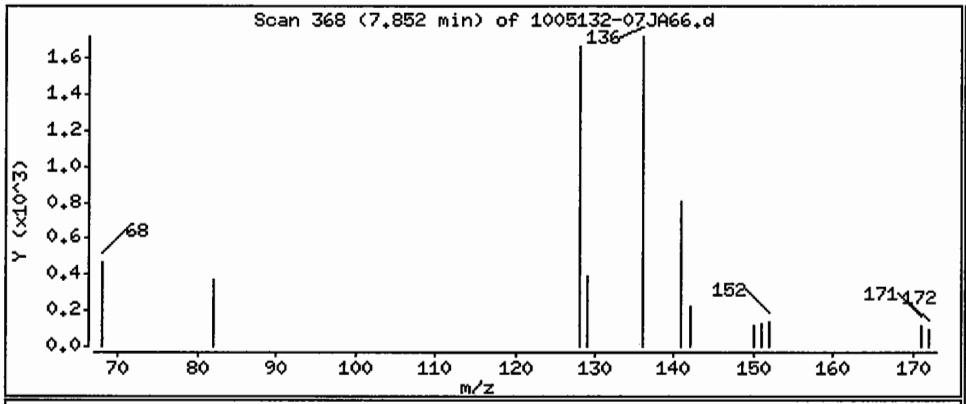
Operator: 2730

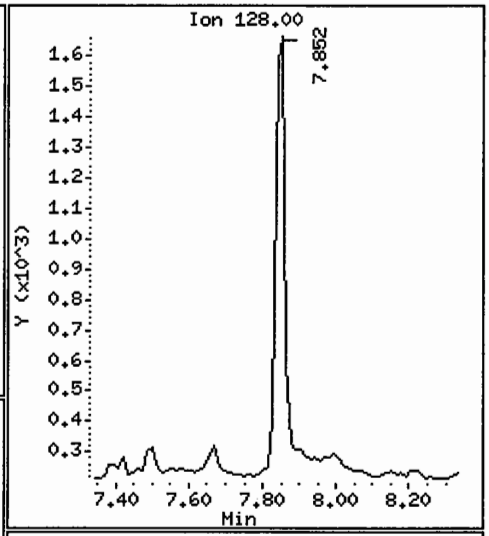
Column phase: Rtx-5MS

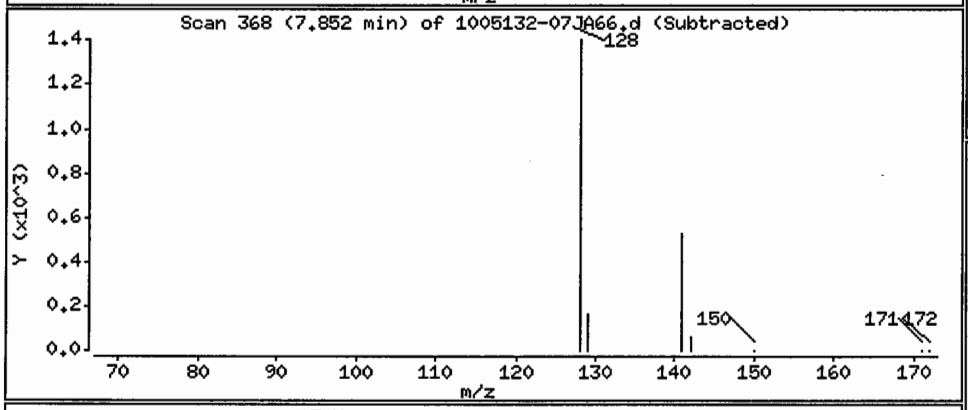
Column diameter: 0.32

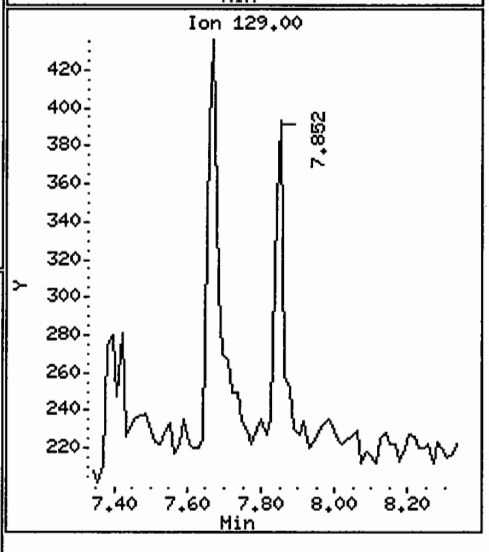
13 Naphthalene

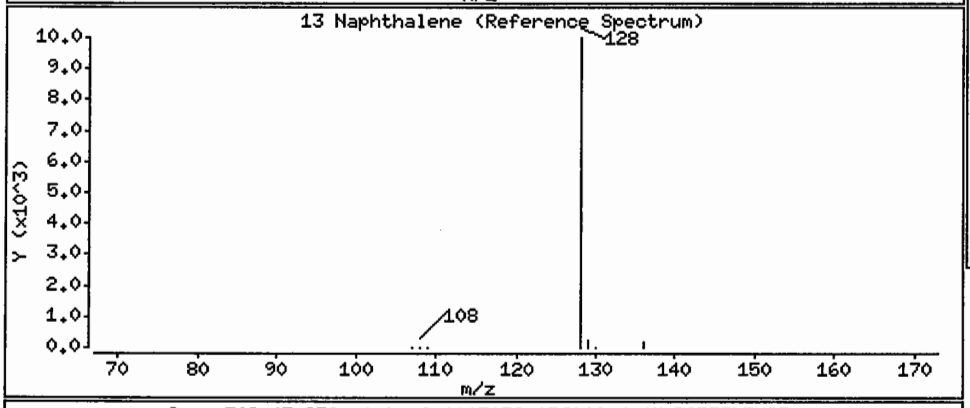
Concentration: 1.7 ug/Kg

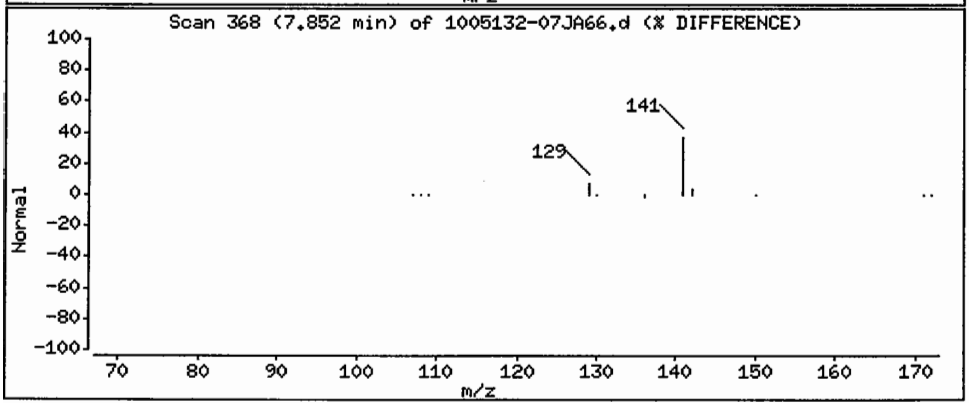












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d

Date : 27-MAY-2010 00:17

Client ID: SS83-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-07:2730

Volume Injected (uL): 2.0

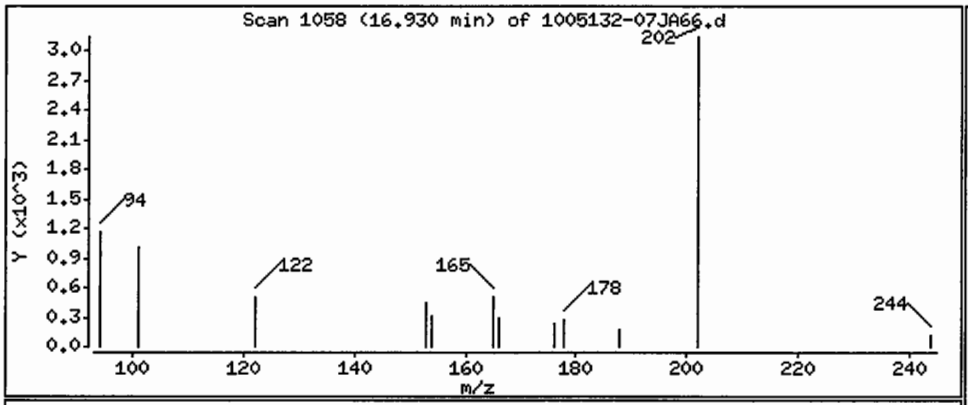
Operator: 2730

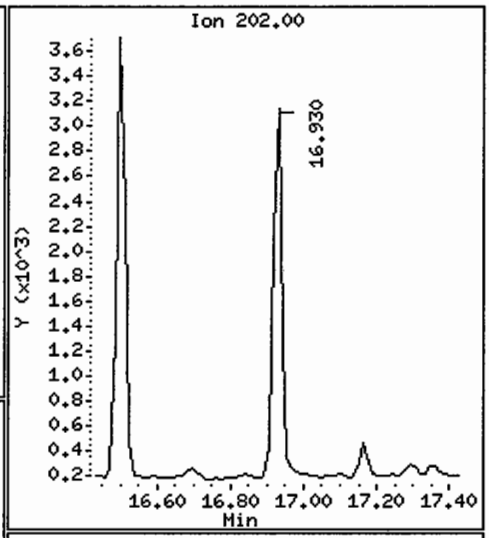
Column phase: Rtx-5MS

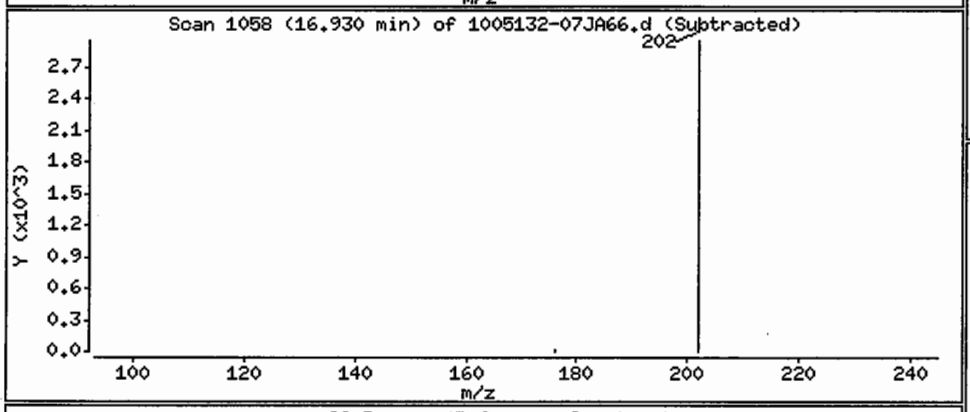
Column diameter: 0.32

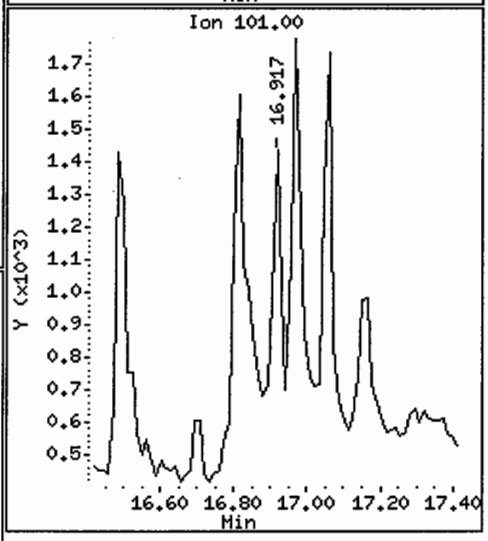
28 Pyrene

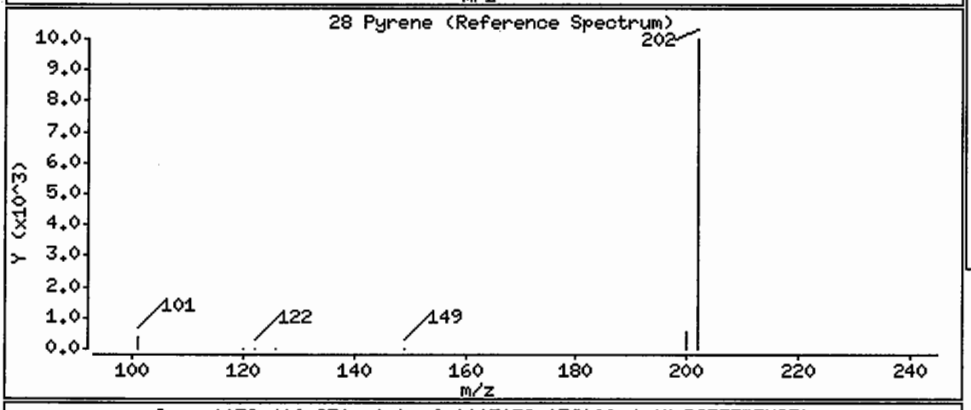
Concentration: 0.98 ug/Kg

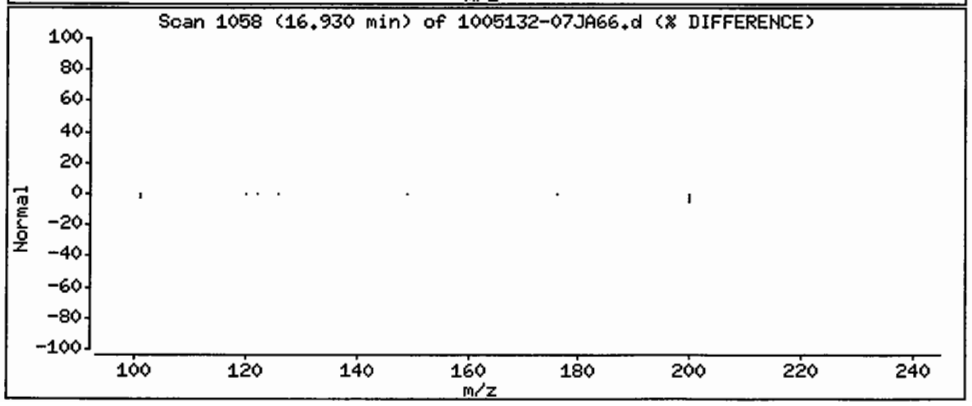












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d

Date : 27-MAY-2010 00:17

Client ID: SS83-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-07:2730

Volume Injected (uL): 2.0

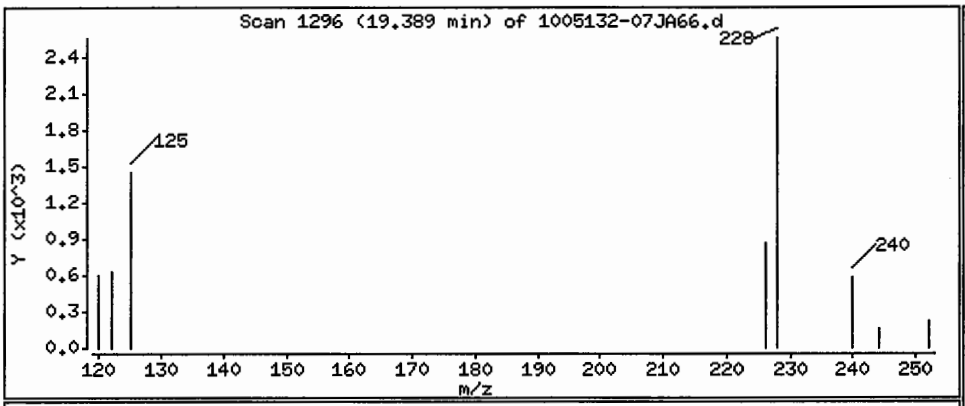
Operator: 2730

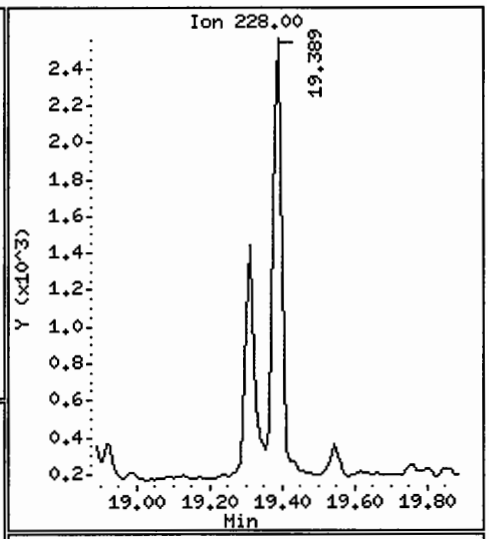
Column phase: Rtx-5MS

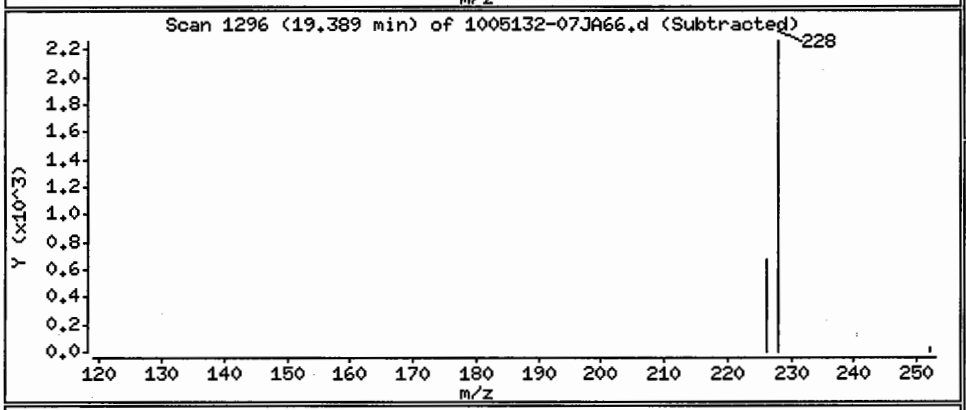
Column diameter: 0.32

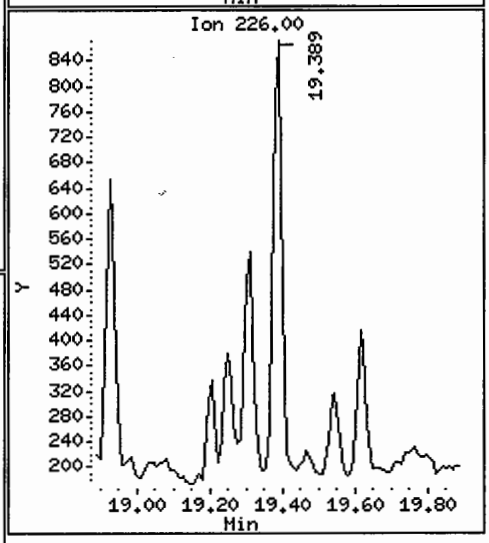
30 Chrysene

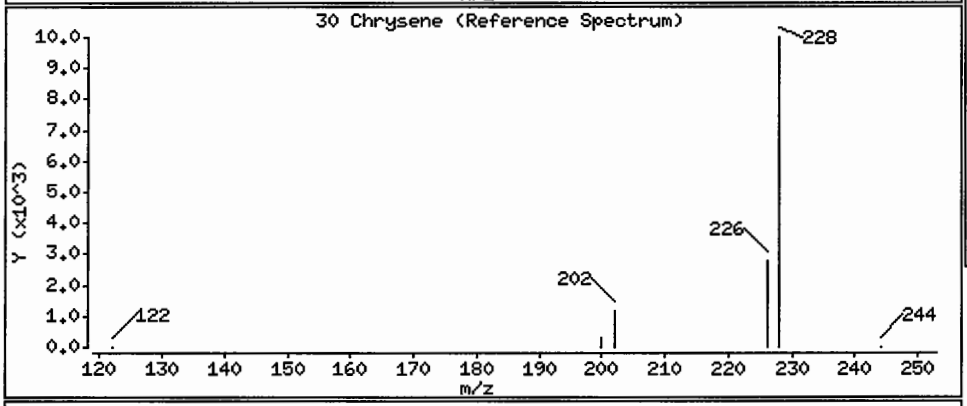
Concentration: 0.99 ug/Kg

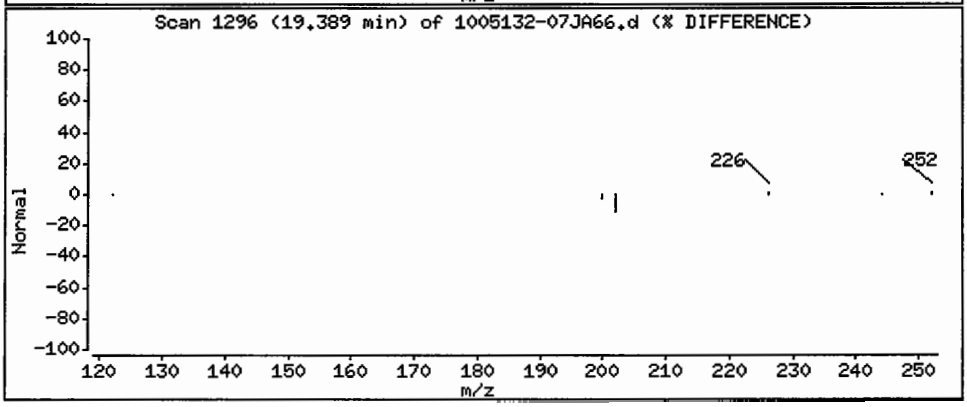












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d

Date : 27-MAY-2010 00:17

Client ID: SS83-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-07:2730

Volume Injected (uL): 2.0

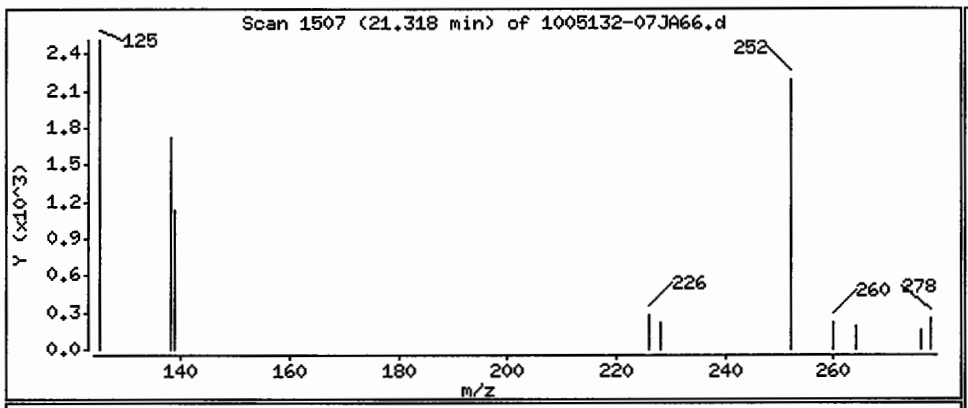
Operator: 2730

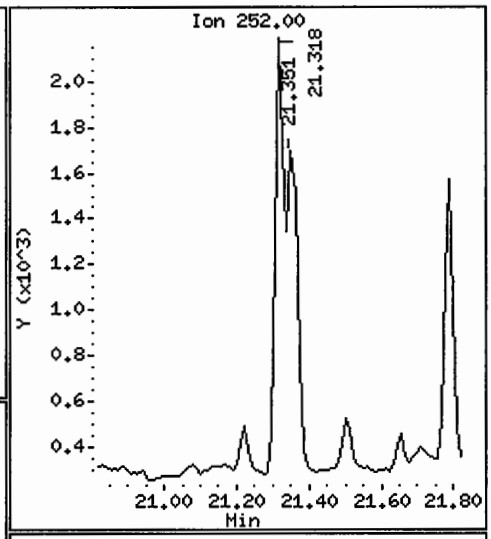
Column phase: Rtx-5MS

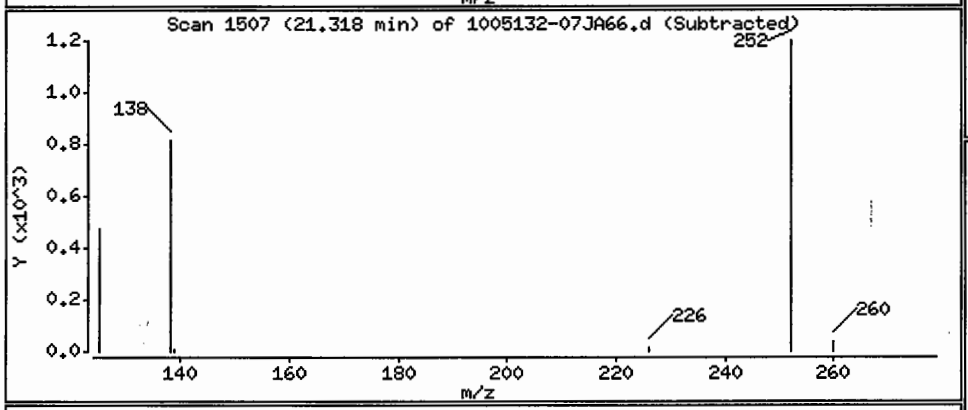
Column diameter: 0.32

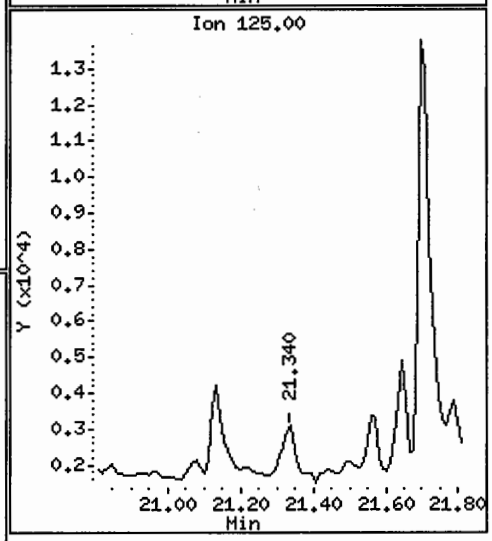
31 Benzo(b)fluoranthene

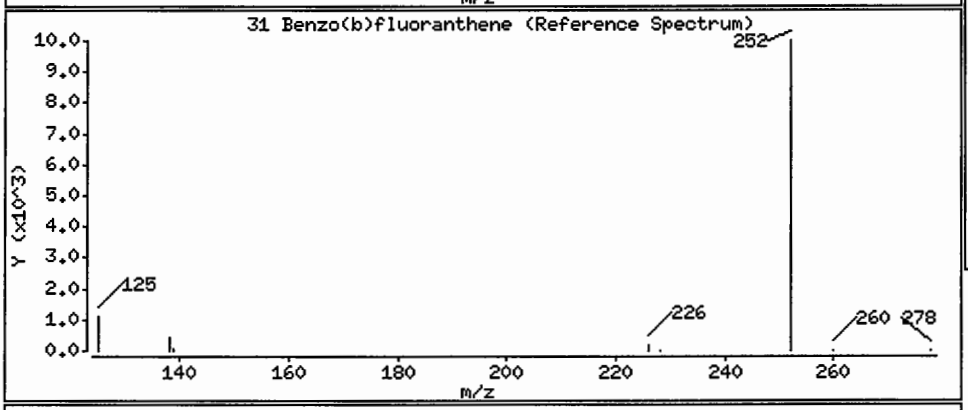
Concentration: 1.3 ug/Kg

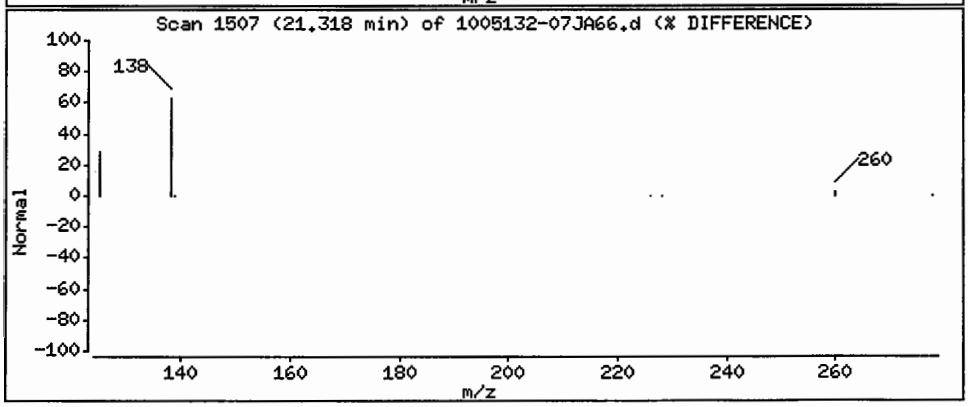












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d

Date : 27-MAY-2010 00:17

Client ID: SS83-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-07:2730

Volume Injected (uL): 2.0

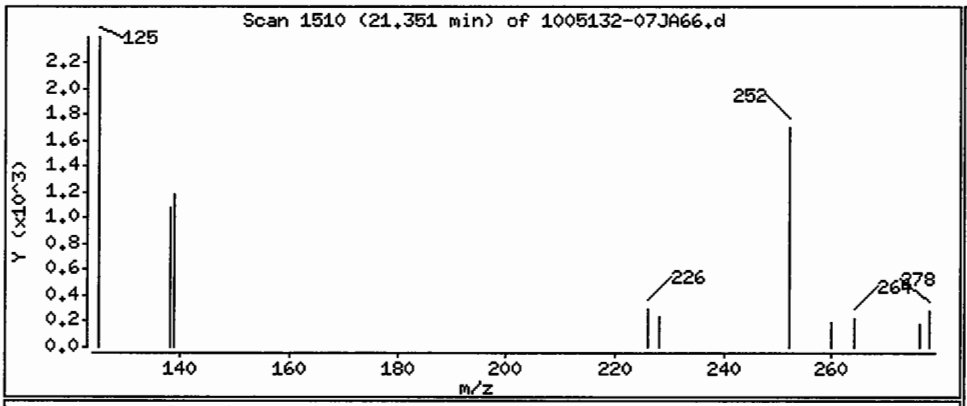
Operator: 2730

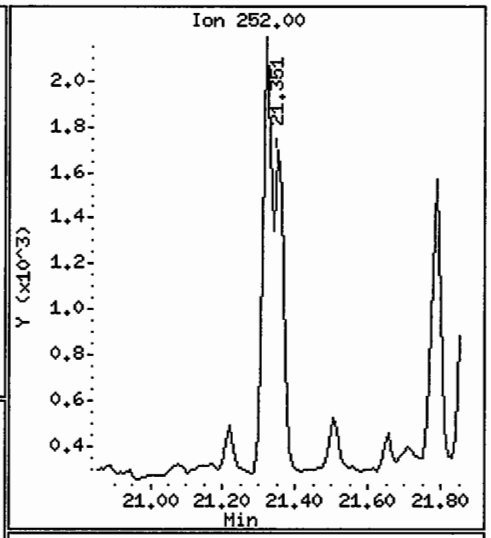
Column phase: Rtx-5MS

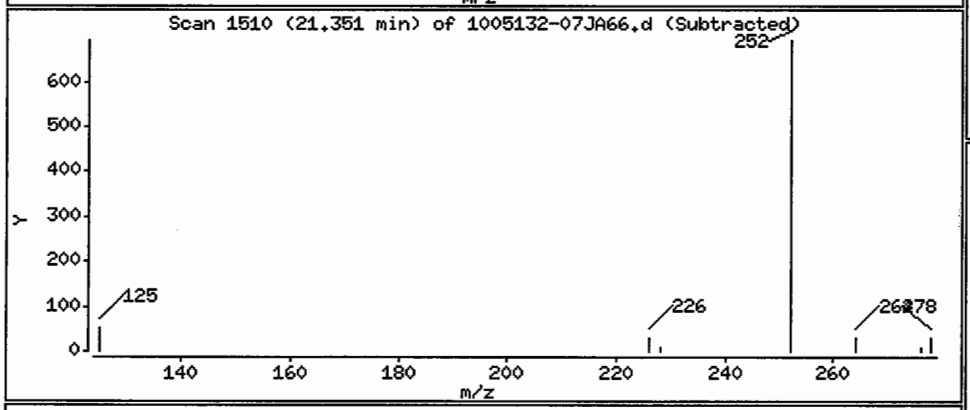
Column diameter: 0.32

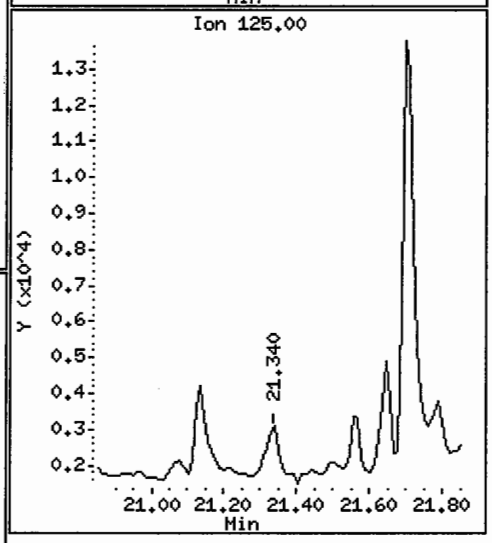
32 Benzo(k)fluoranthene

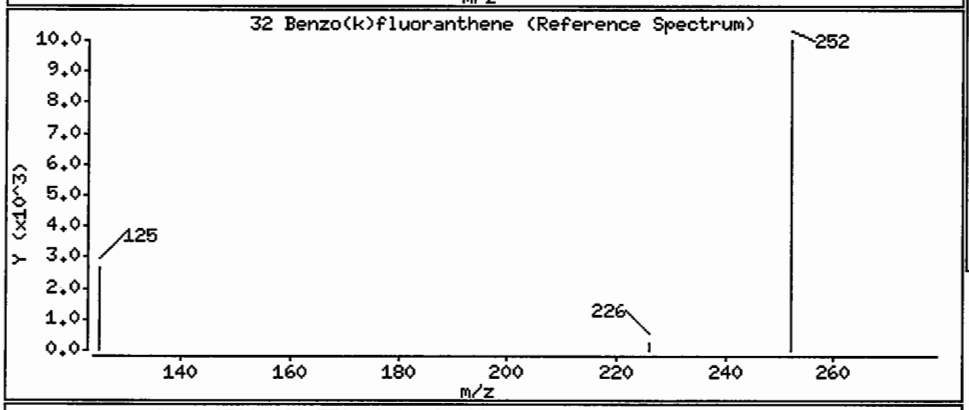
Concentration: 0.95 ug/Kg

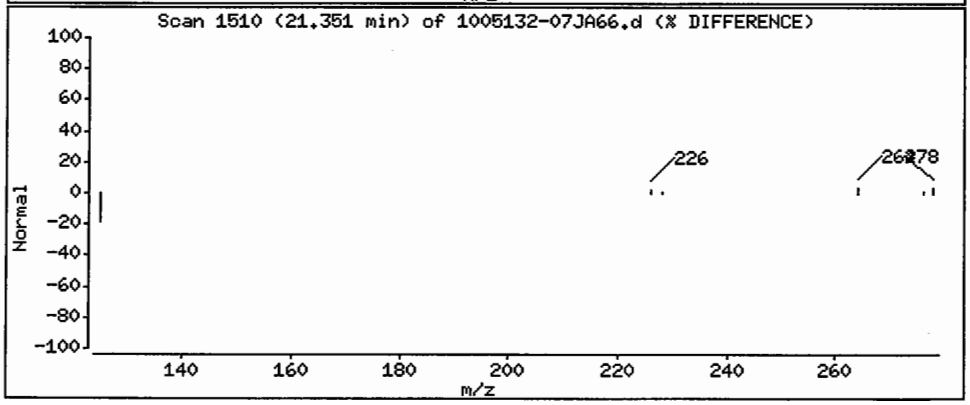












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d

Date : 27-MAY-2010 00:17

Client ID: SS83-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-07:2730

Volume Injected (uL): 2.0

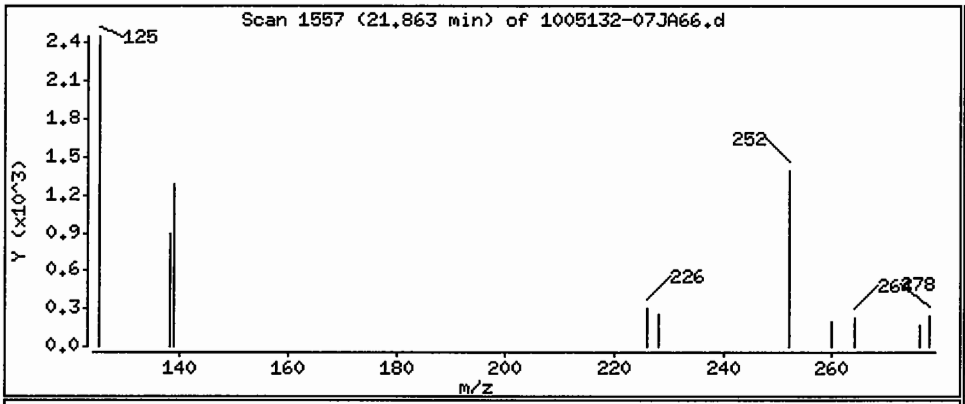
Operator: 2730

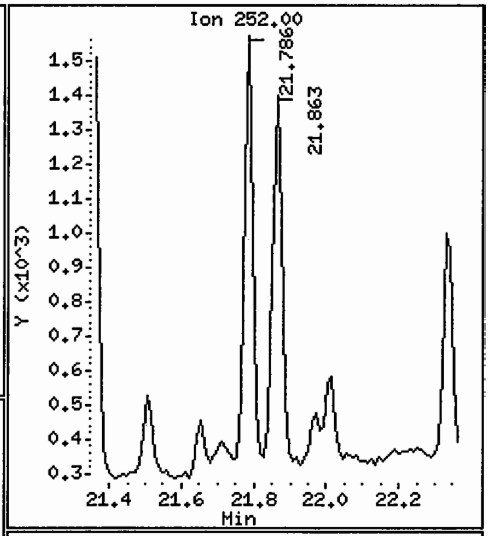
Column phase: Rtx-5MS

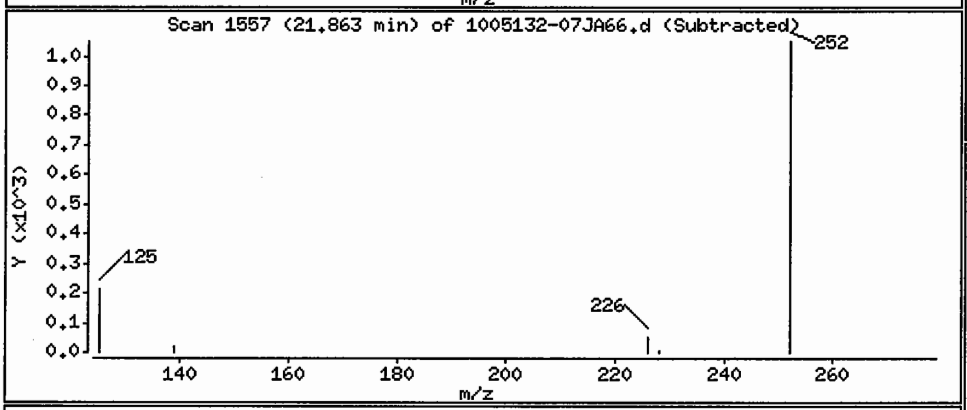
Column diameter: 0.32

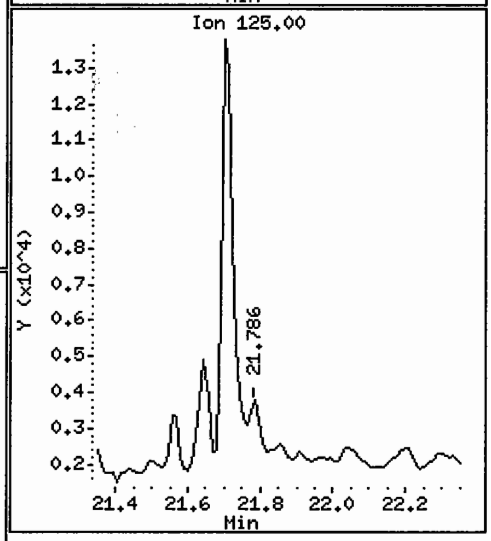
33 Benzo(a)pyrene

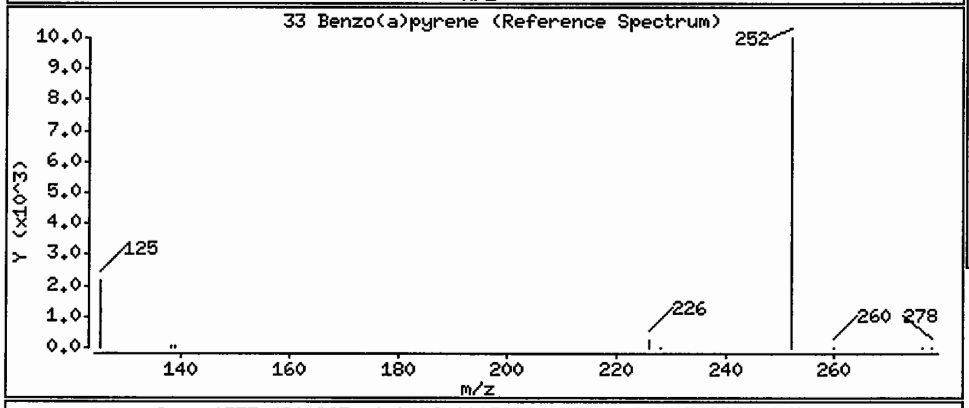
Concentration: 0.71 ug/Kg

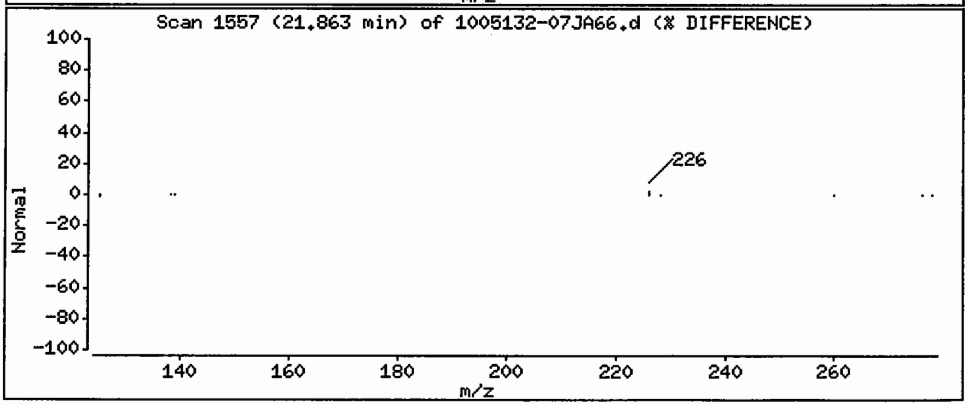












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d

Date : 27-MAY-2010 00:17

Client ID: SS83-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-07;2730

Volume Injected (uL): 2.0

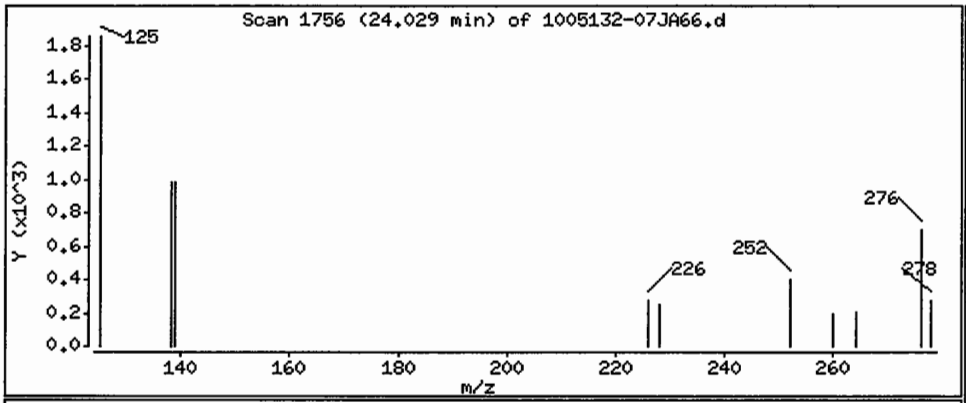
Operator: 2730

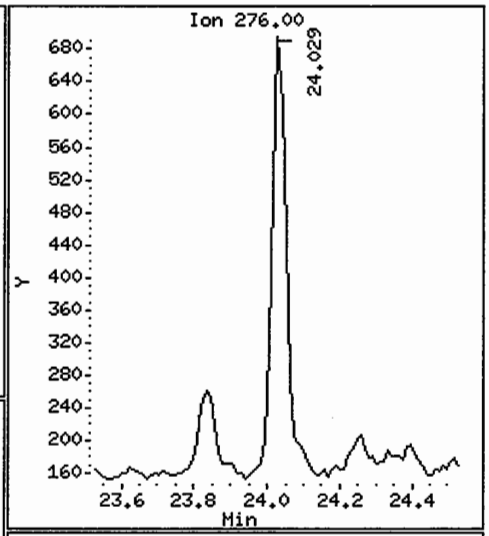
Column phase: Rtx-5MS

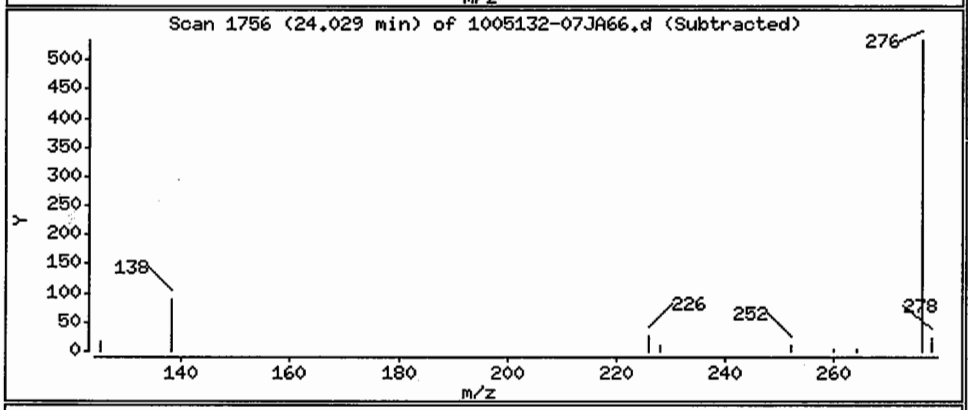
Column diameter: 0.32

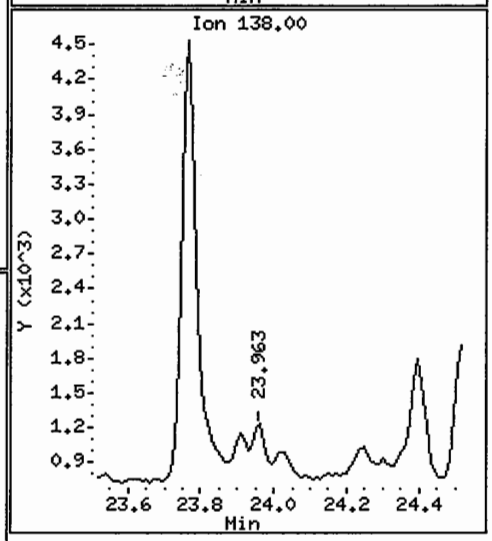
34 Indeno(1,2,3-cd)pyrene

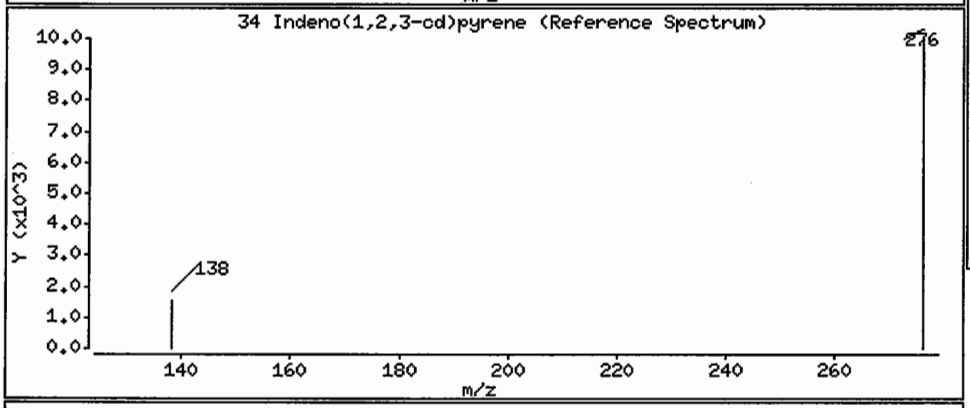
Concentration: 0.65 ug/Kg

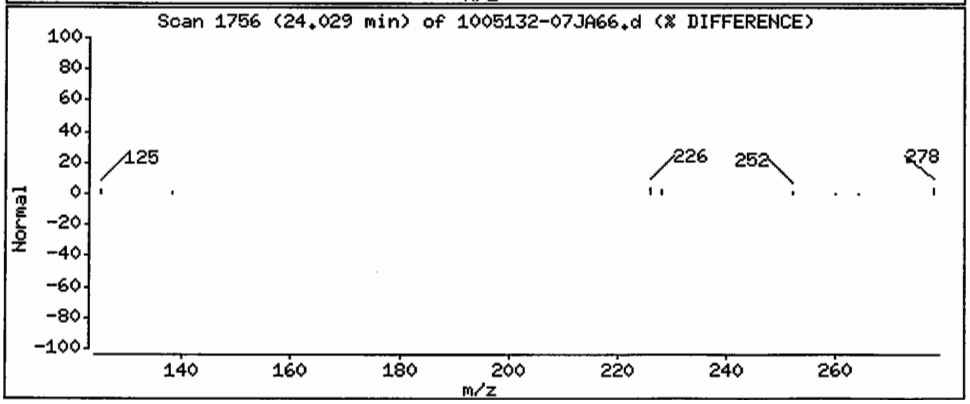












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d

Date : 27-MAY-2010 00:17

Client ID: SS83-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-07:2730

Volume Injected (uL): 2.0

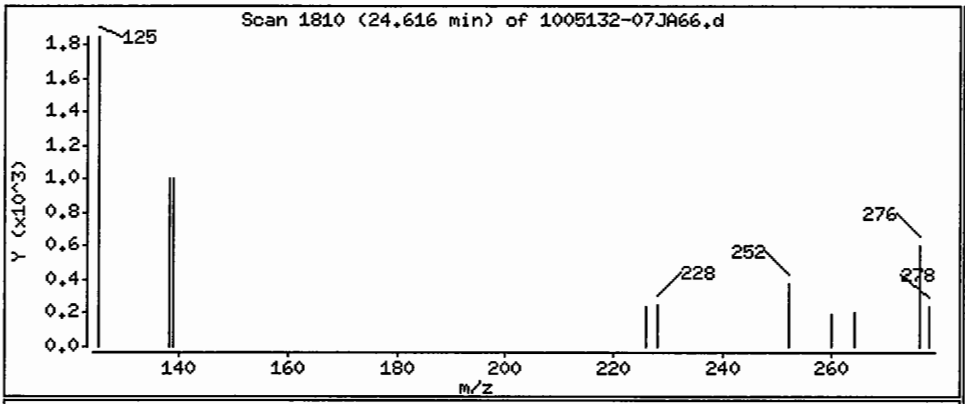
Operator: 2730

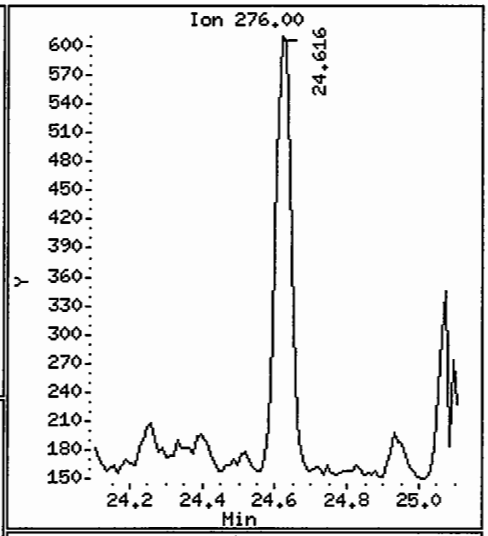
Column phase: Rtx-5MS

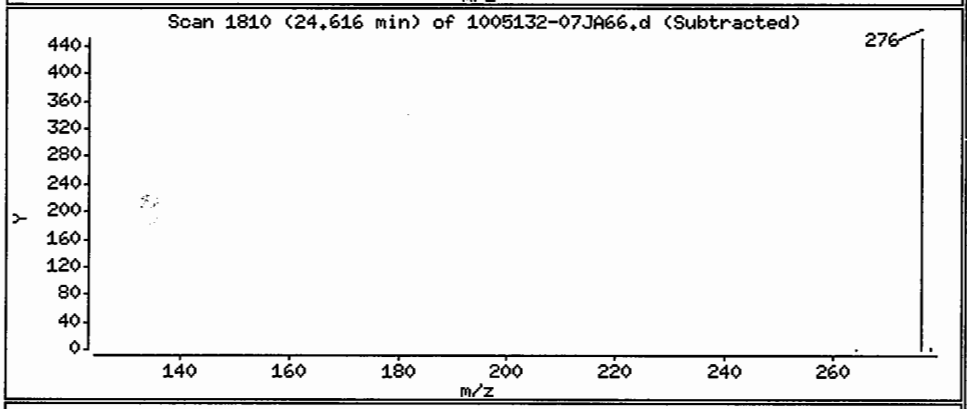
Column diameter: 0.32

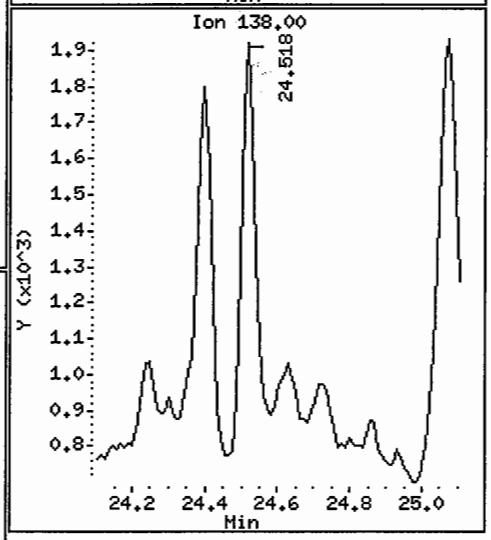
36 Benzo(g,h,i)perylene

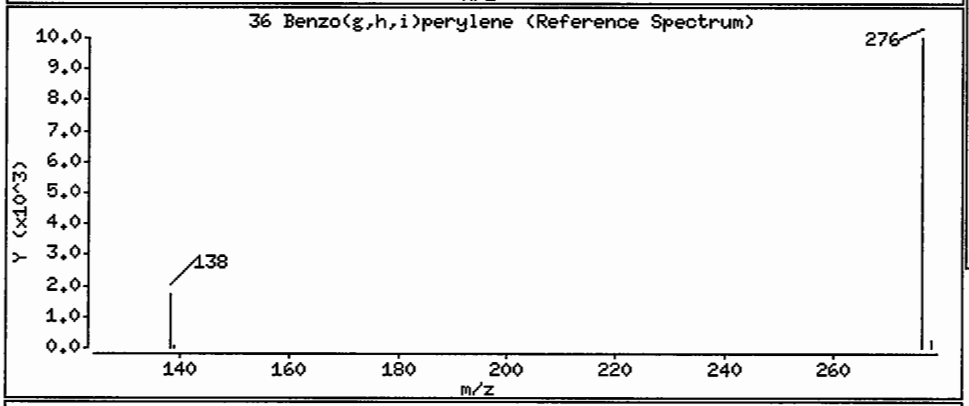
Concentration: 0.55 ug/Kg

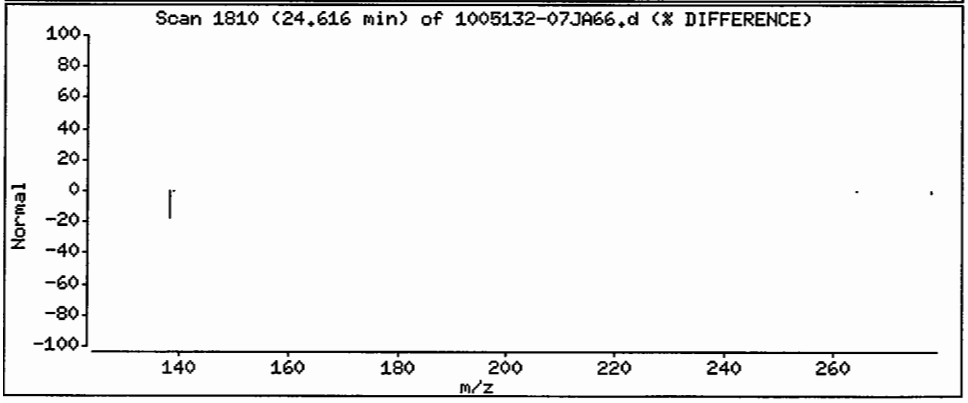






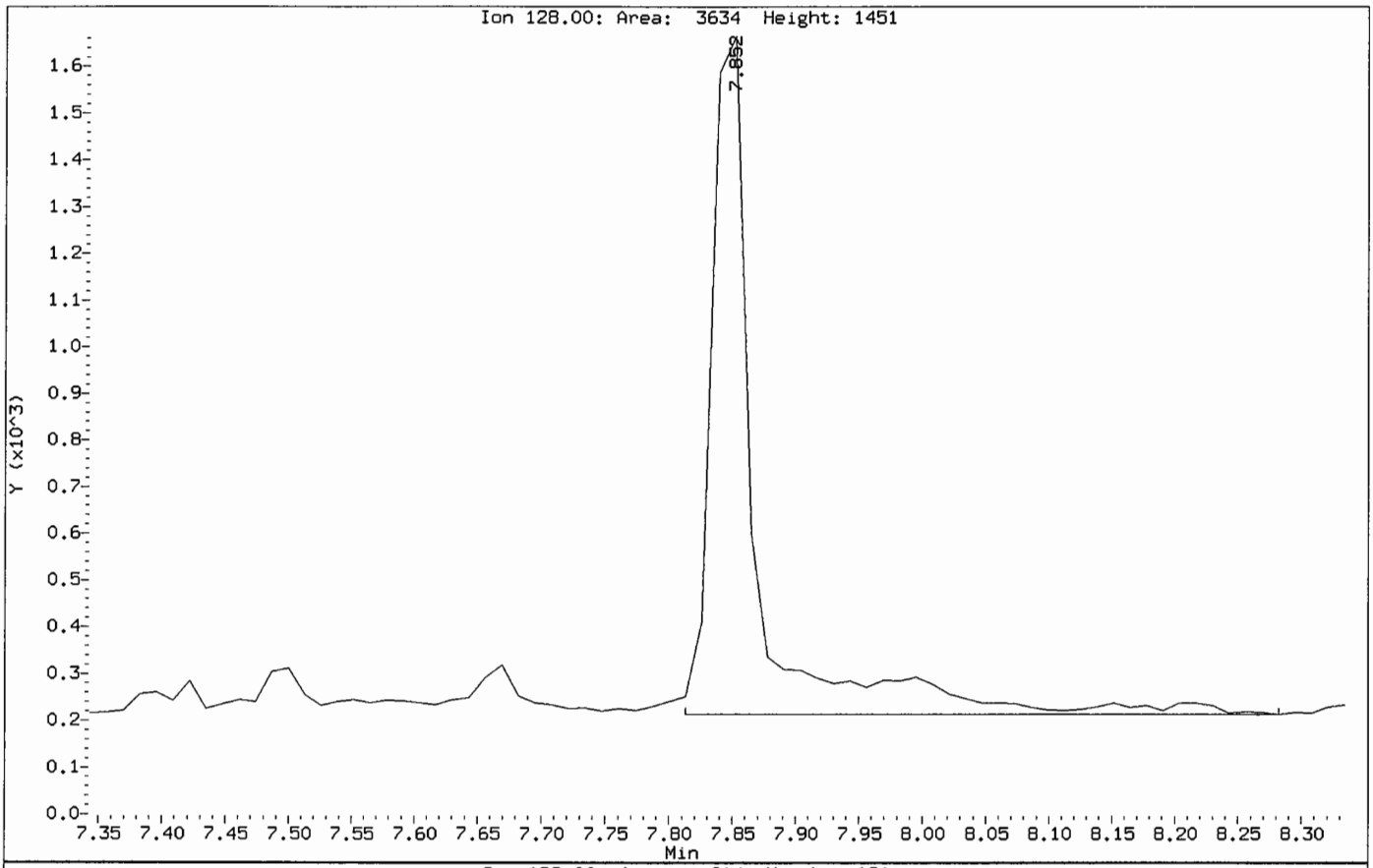


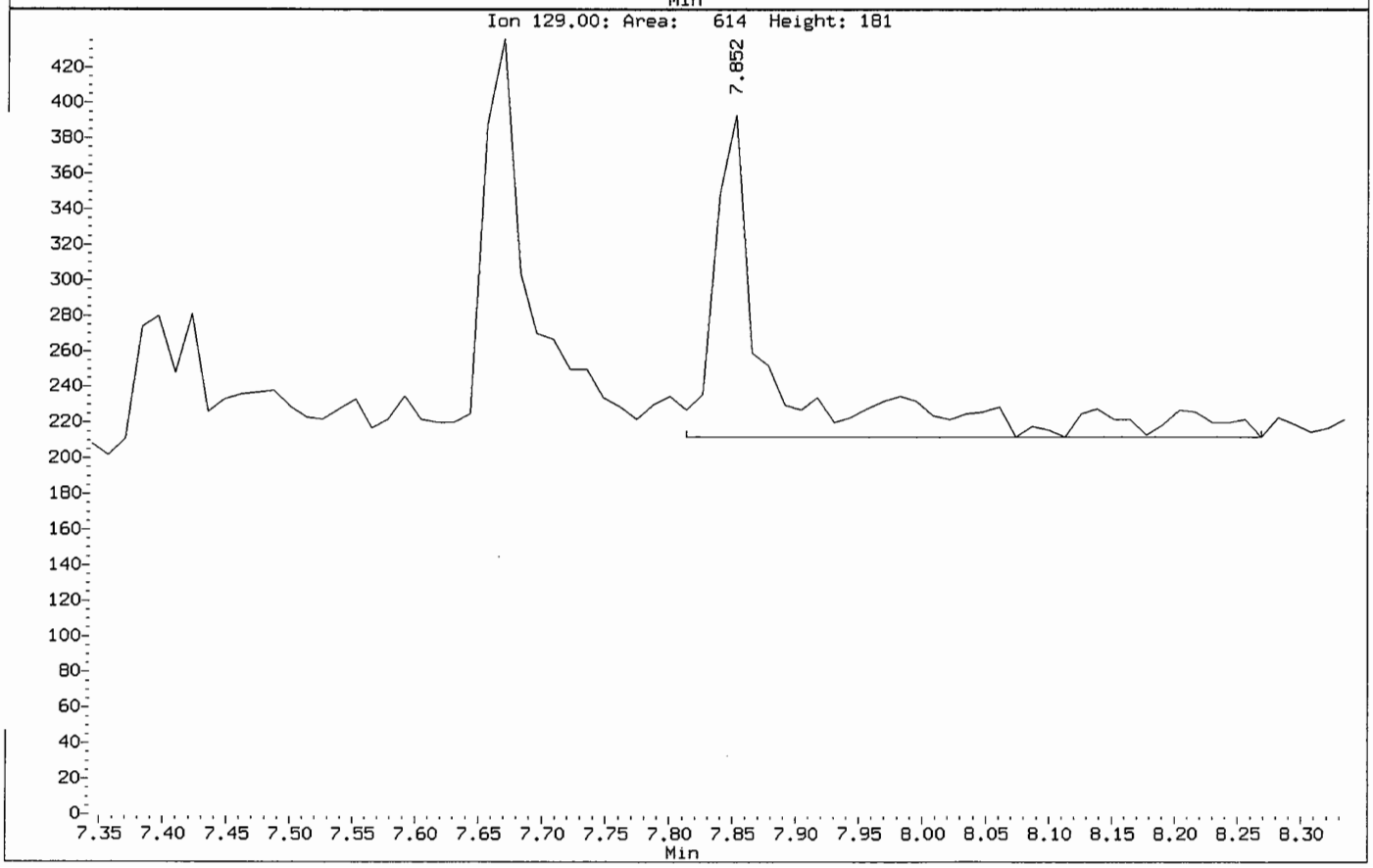




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Injection Date: 27-MAY-2010 00:17
Instrument: 5972hp66.i
Client Sample ID: SS83-0-1RE

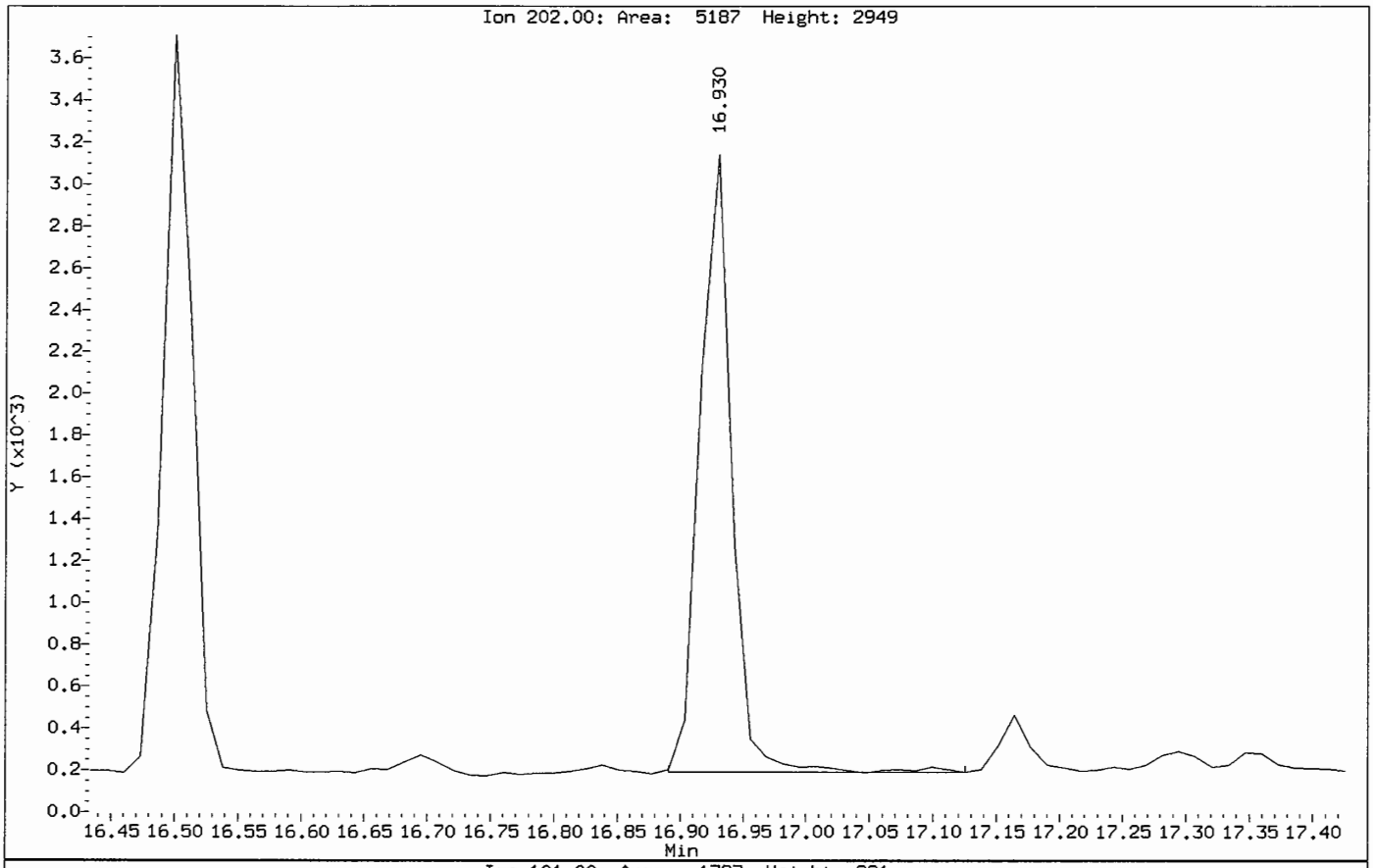
Compound: Naphthalene
CAS Number: 91-20-3

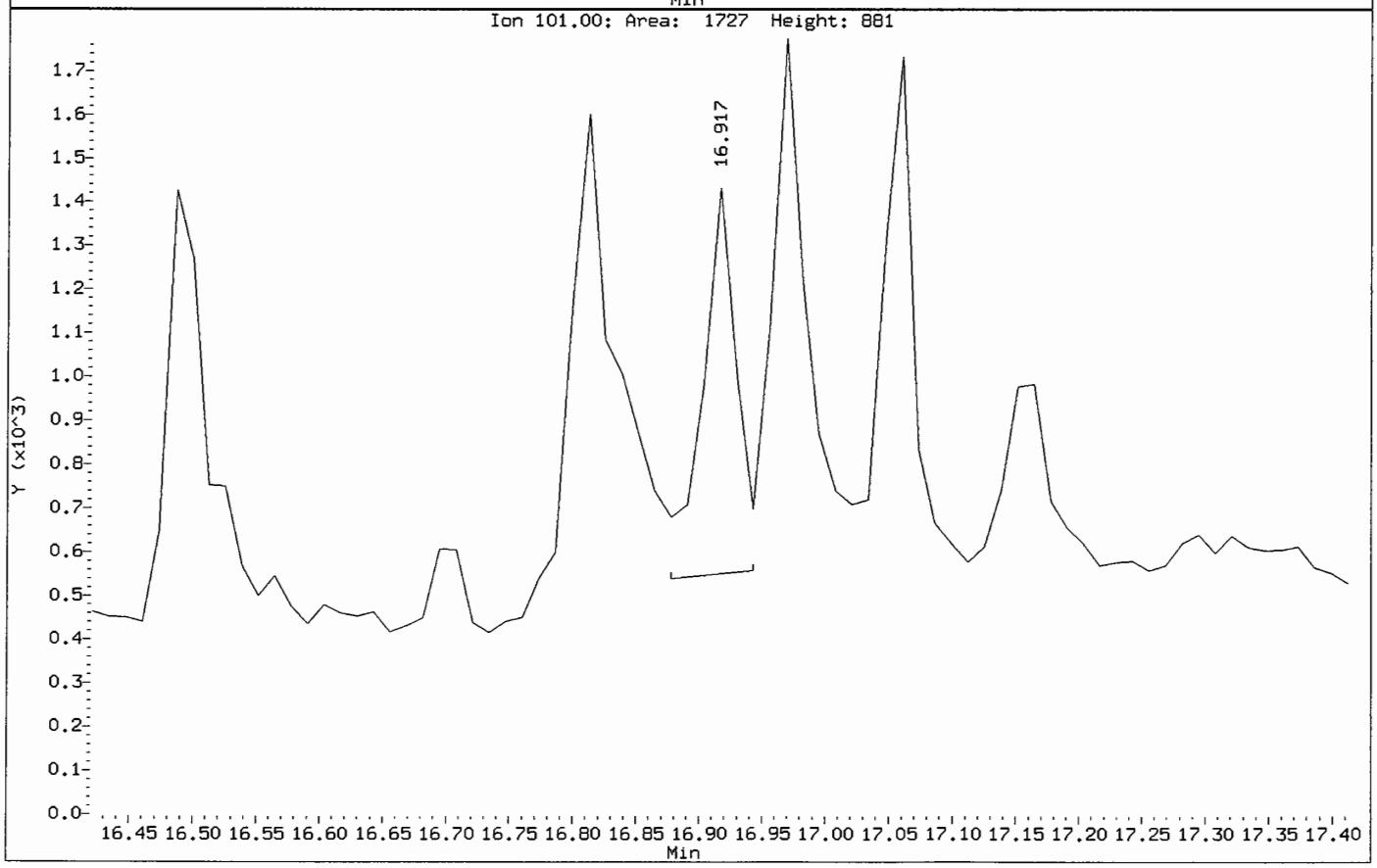




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Injection Date: 27-MAY-2010 00:17
Instrument: 5972hp66.i
Client Sample ID: SS83-0-1RE

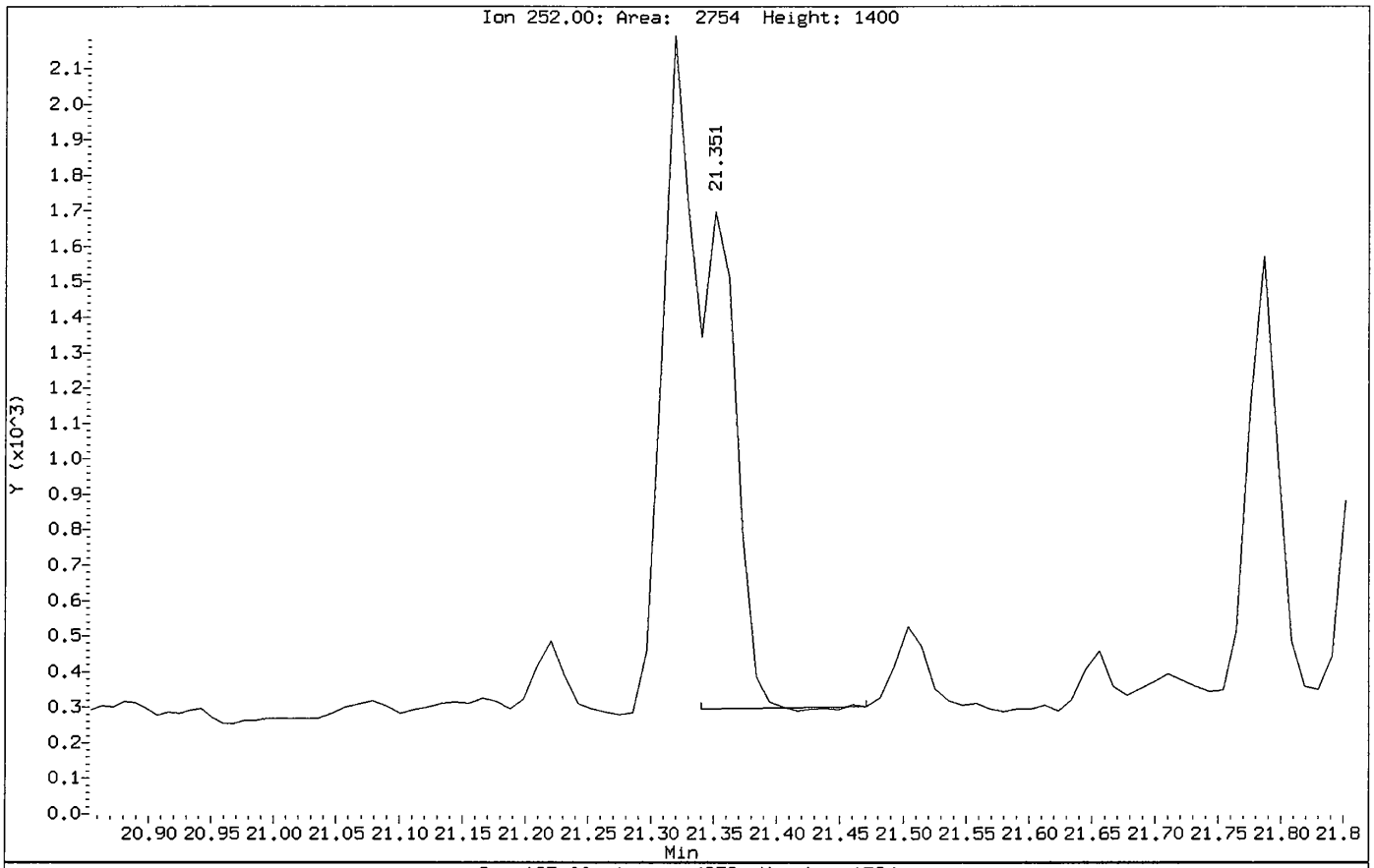
Compound: Pyrene
CAS Number: 129-00-0

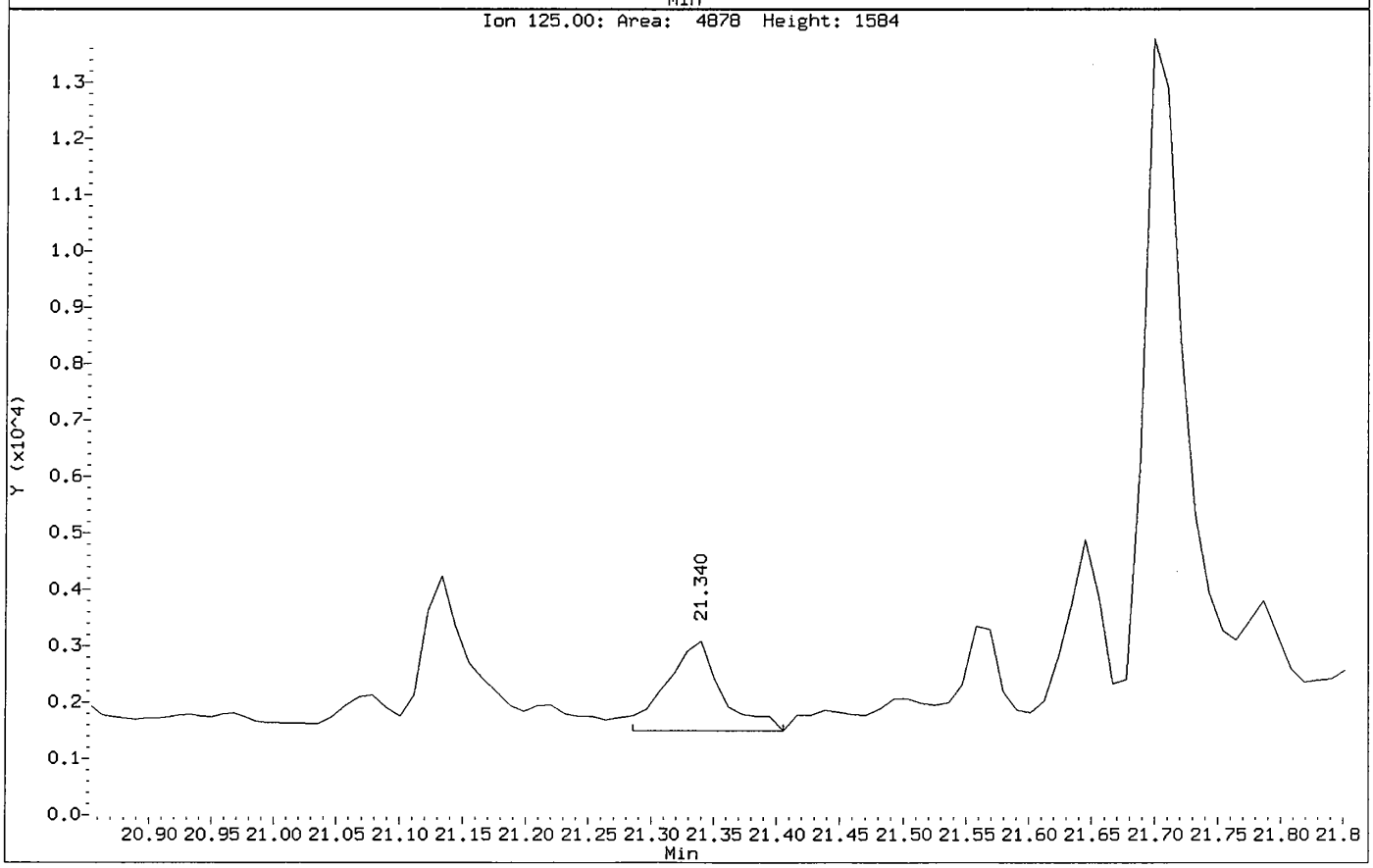




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Injection Date: 27-MAY-2010 00:17
Instrument: 5972hp66.i
Client Sample ID: SS83-0-1RE

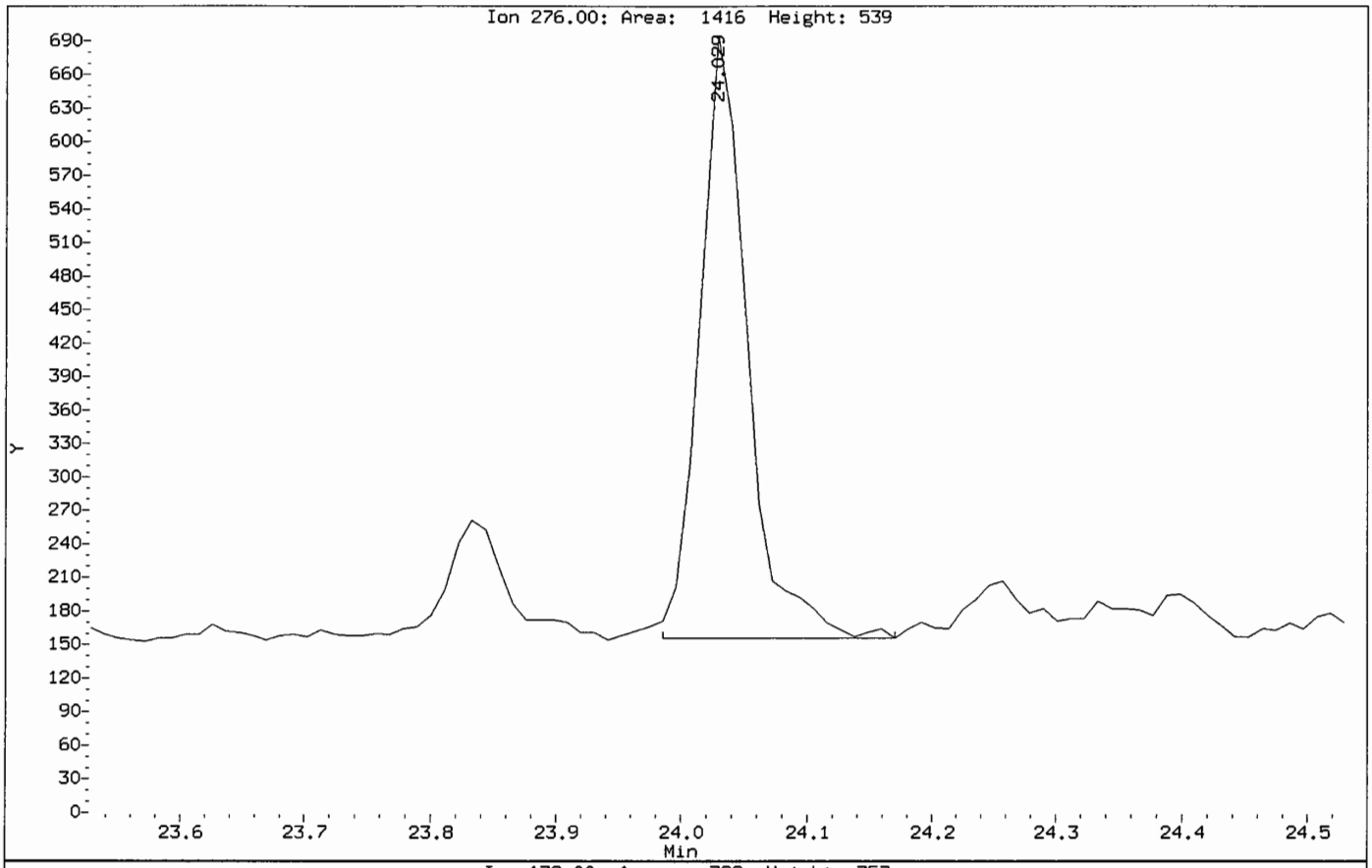
Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

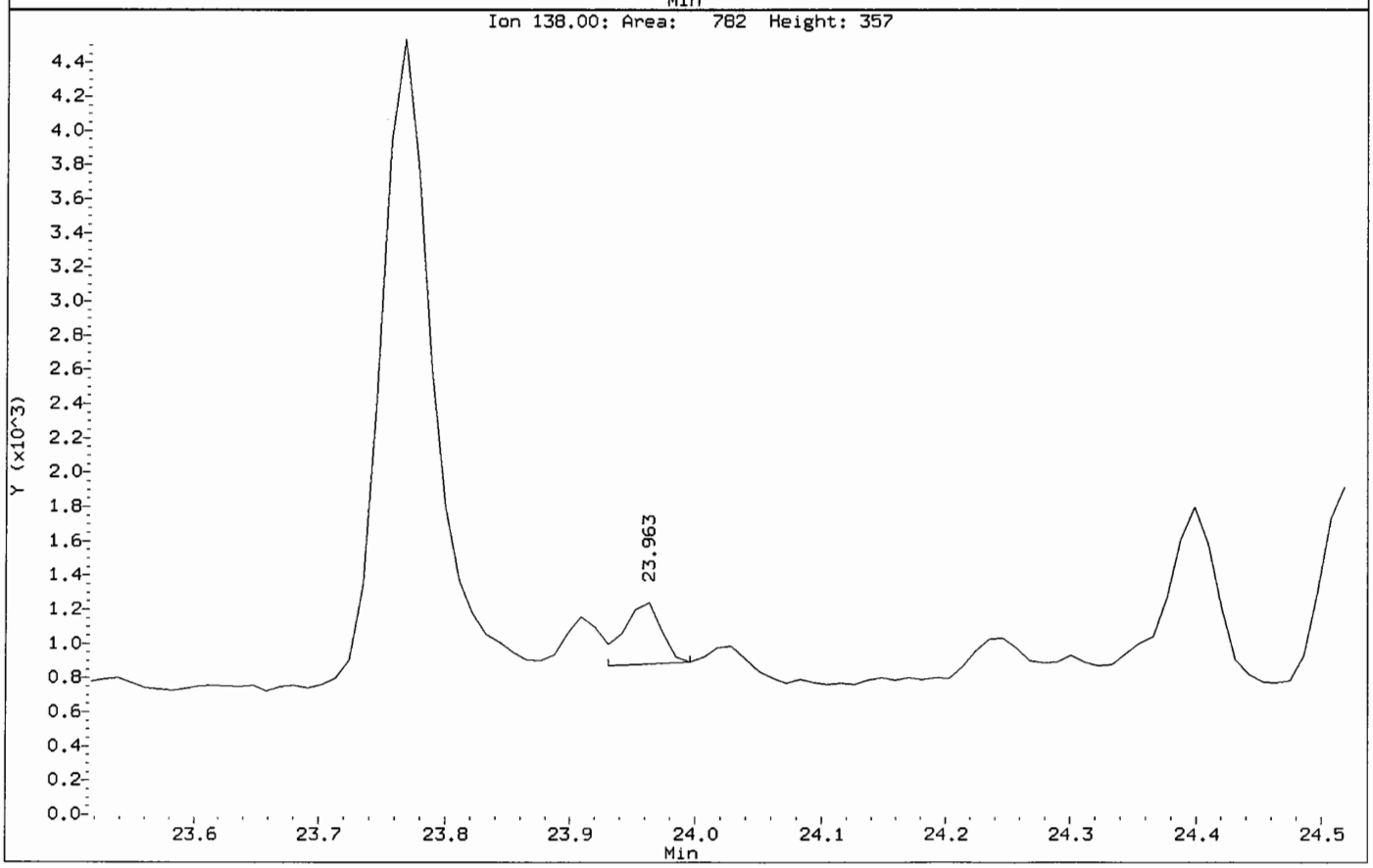




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Injection Date: 27-MAY-2010 00:17
Instrument: 5972hp66.i
Client Sample ID: SS83-0-1RE

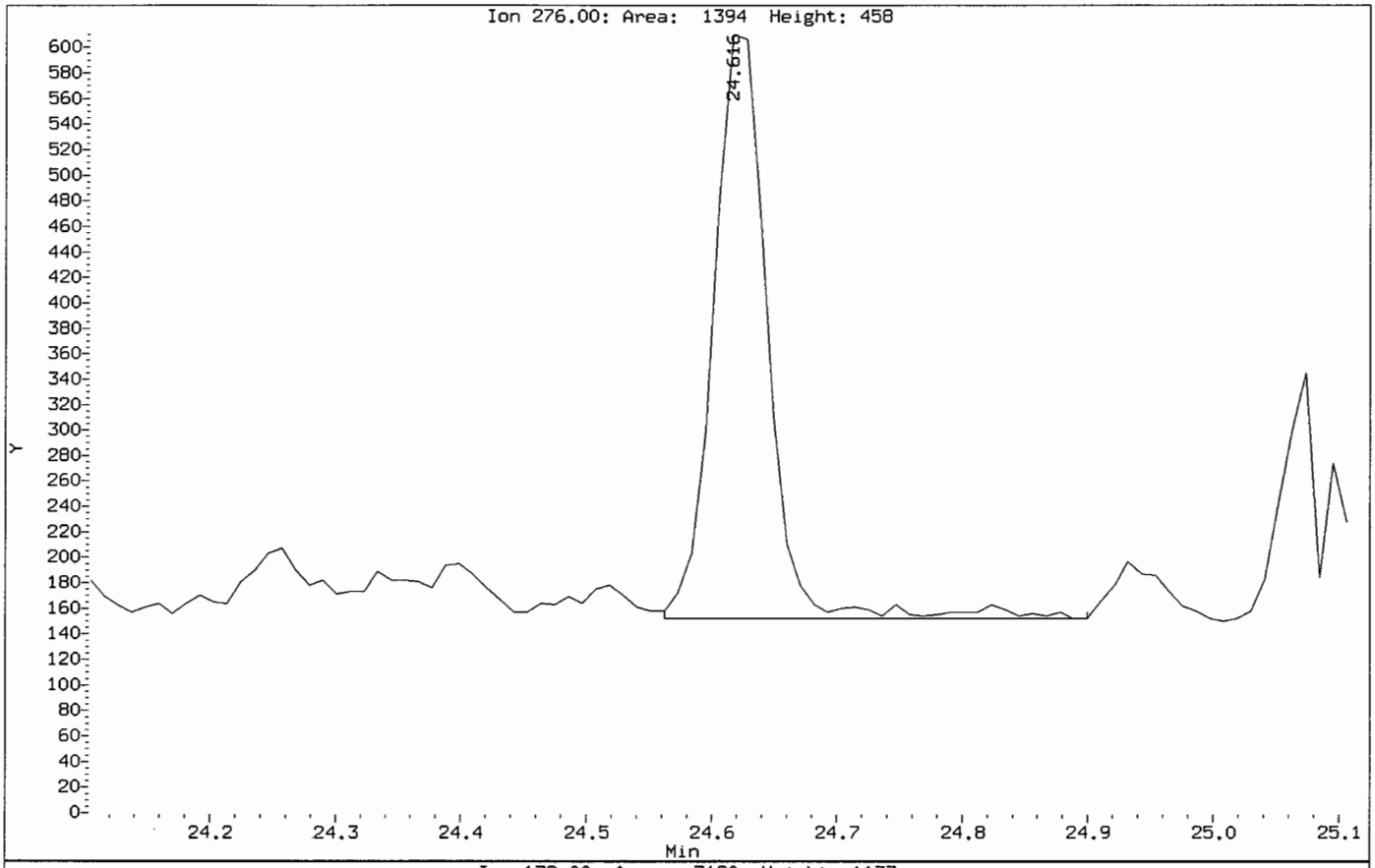
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5

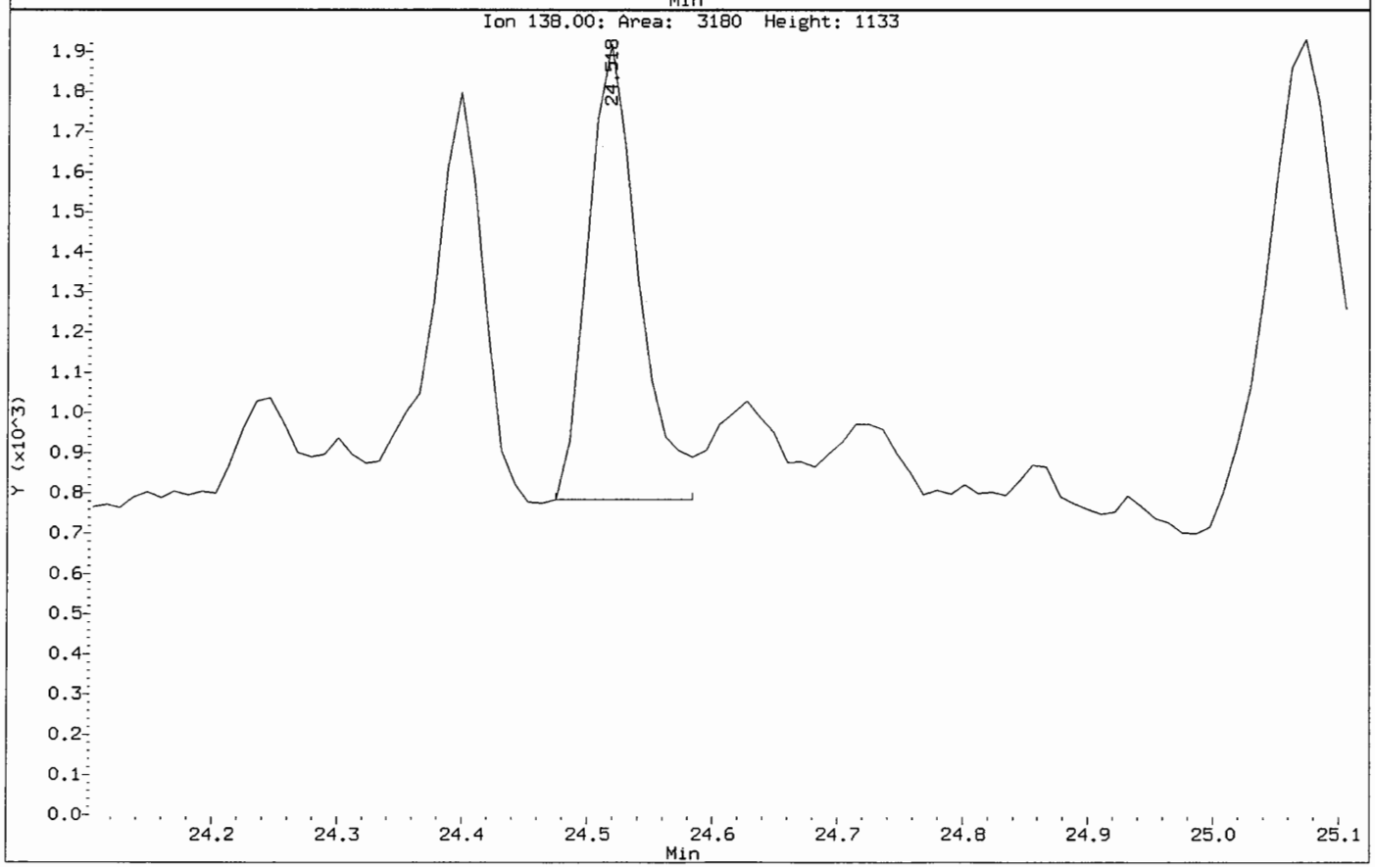




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-07JA66.d
Injection Date: 27-MAY-2010 00:17
Instrument: 5972hp66.i
Client Sample ID: SS83-0-1RE

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS84-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-13A66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 5 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

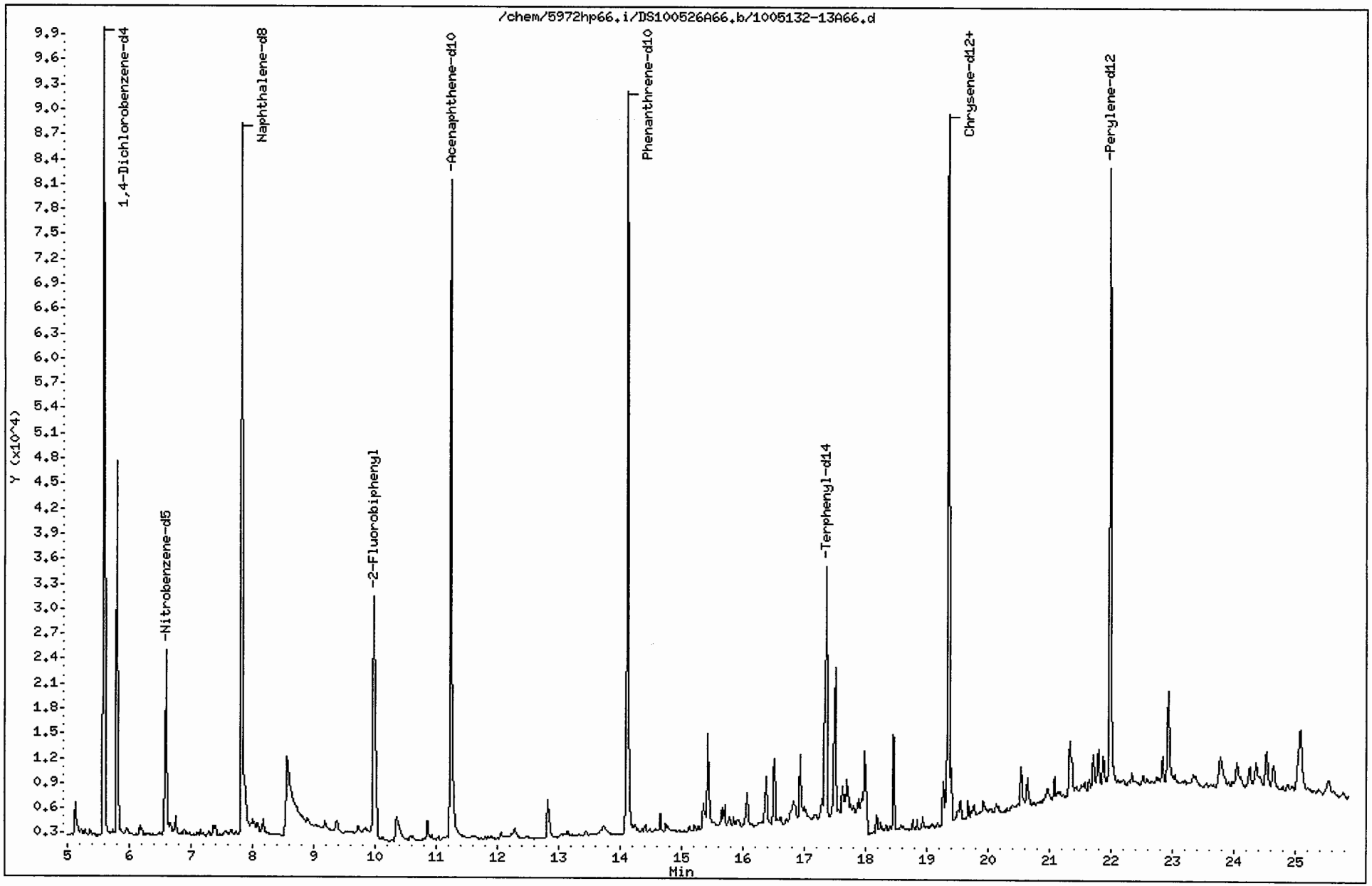
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U
91-57-6	2-Methylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	8.7	U
86-73-7	Fluorene	8.7	U
85-01-8	Phenanthrene	8.7	U
120-12-7	Anthracene	8.7	U
206-44-0	Fluoranthene	2.5	J
129-00-0	Pyrene	2.2	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	2.2	J
205-99-2	Benzo(b)fluoranthene	2.1	J
207-08-9	Benzo(k)fluoranthene	1.5	J
50-32-8	Benzo(a)pyrene	1.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.4	J
53-70-3	Dibenzo(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	1.4	J

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Date : 27-MAY-2010 04:52
Client ID: SS84-0-1
Sample Info: 1005132-13:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Report Date: 03-Jun-2010 17:25

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Lab Smp Id: 1005132-13 Client Smp ID: SS84-0-1
Inj Date : 27-MAY-2010 04:52
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 1005132-13:2730
Misc Info : SS84-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 15:45 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.587	5.558	(1.000)	55405	2.00000		(a)
*	2 Naphthalene-d8	136	7.816	7.813	(1.000)	145992	2.00000		(a)
*	3 Acenaphthene-d10	164	11.243	11.231	(1.000)	69201	2.00000		(a)
*	4 Phenanthrene-d10	188	14.114	14.099	(1.000)	134582	2.00000		(a)
*	5 Chrysene-d12	240	19.353	19.336	(1.000)	115084	2.00000		(a)
*	6 Perylene-d12	264	21.983	21.973	(1.000)	103481	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.590	6.575	(0.843)	23169	0.71320	13	
$	10 2-Fluorobiphenyl	172	9.979	9.964	(0.888)	44400	0.61485	11	
$	12 Terphenyl-d14	244	17.361	17.346	(0.897)	37413	0.89473	16	
	13 Naphthalene	128	Compound Not Detected.						
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Report Date: 03-Jun-2010 17:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	16.513	16.498	(0.853)	10926	0.14318	2.5(a)
28 Pyrene	202	16.930	16.929	(0.875)	10597	0.12751	2.2(a)
29 Benzo(a)anthracene	228	19.318	19.310	(0.998)	4325	0.06913	1.2(a)
30 Chrysene	228	19.397	19.388	(1.002)	8384	0.12373	2.2(a)
31 Benzo(b)fluoranthene	252	21.330	21.319	(0.970)	8099	0.11868	2.1(a)
32 Benzo(k)fluoranthene	252	21.363	21.352	(0.972)	6106	0.08314	1.5(aM)
33 Benzo(a)pyrene	252	21.874	21.864	(0.995)	4566	0.07424	1.3(a)
34 Indeno(1,2,3-cd)pyrene	276	24.051	24.030	(1.094)	4180	0.07704	1.4(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.639	24.607	(1.121)	4653	0.07738	1.4(aM)

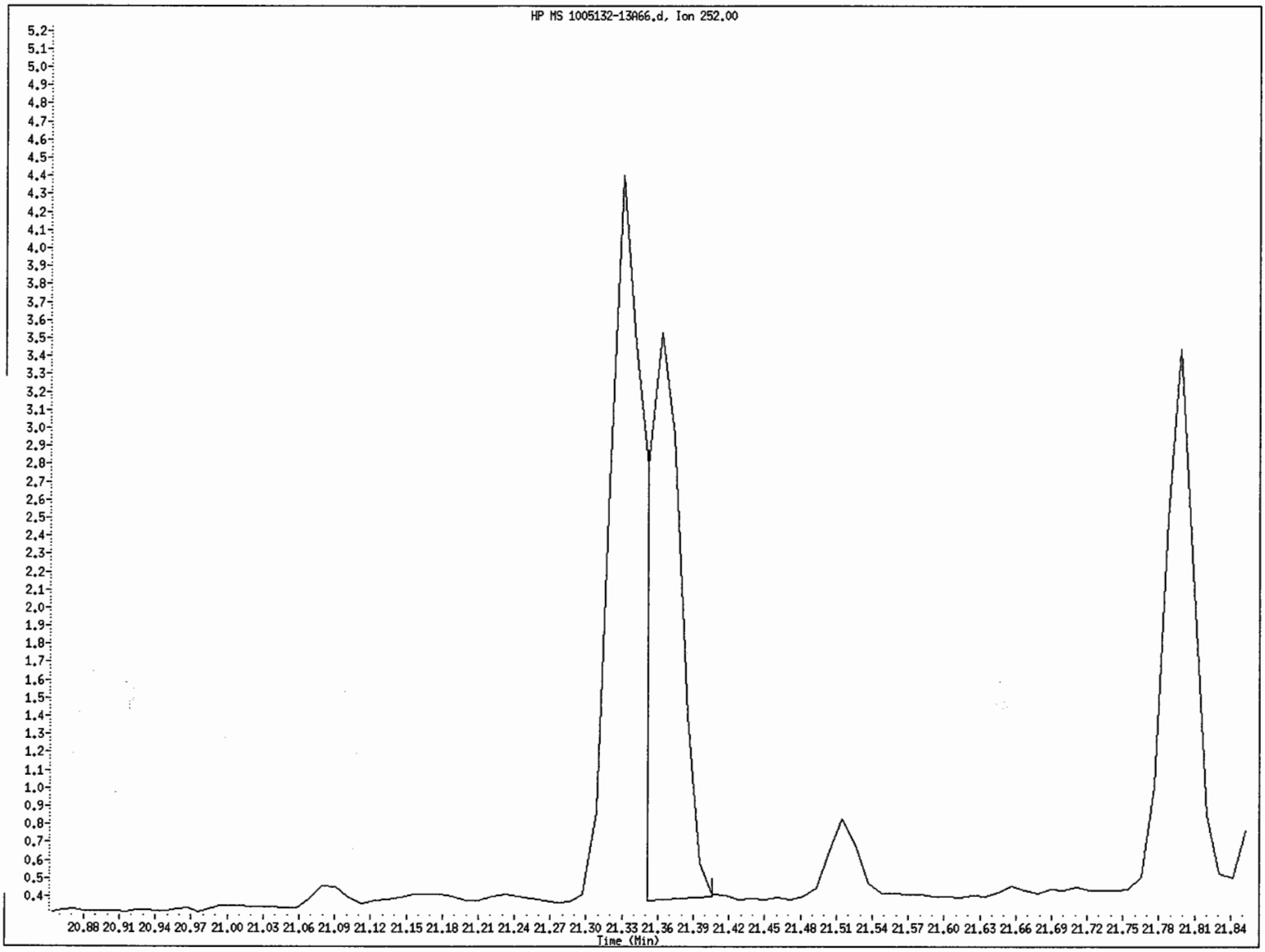
2
2
2

6/3/10
MH

QC Flag Legend

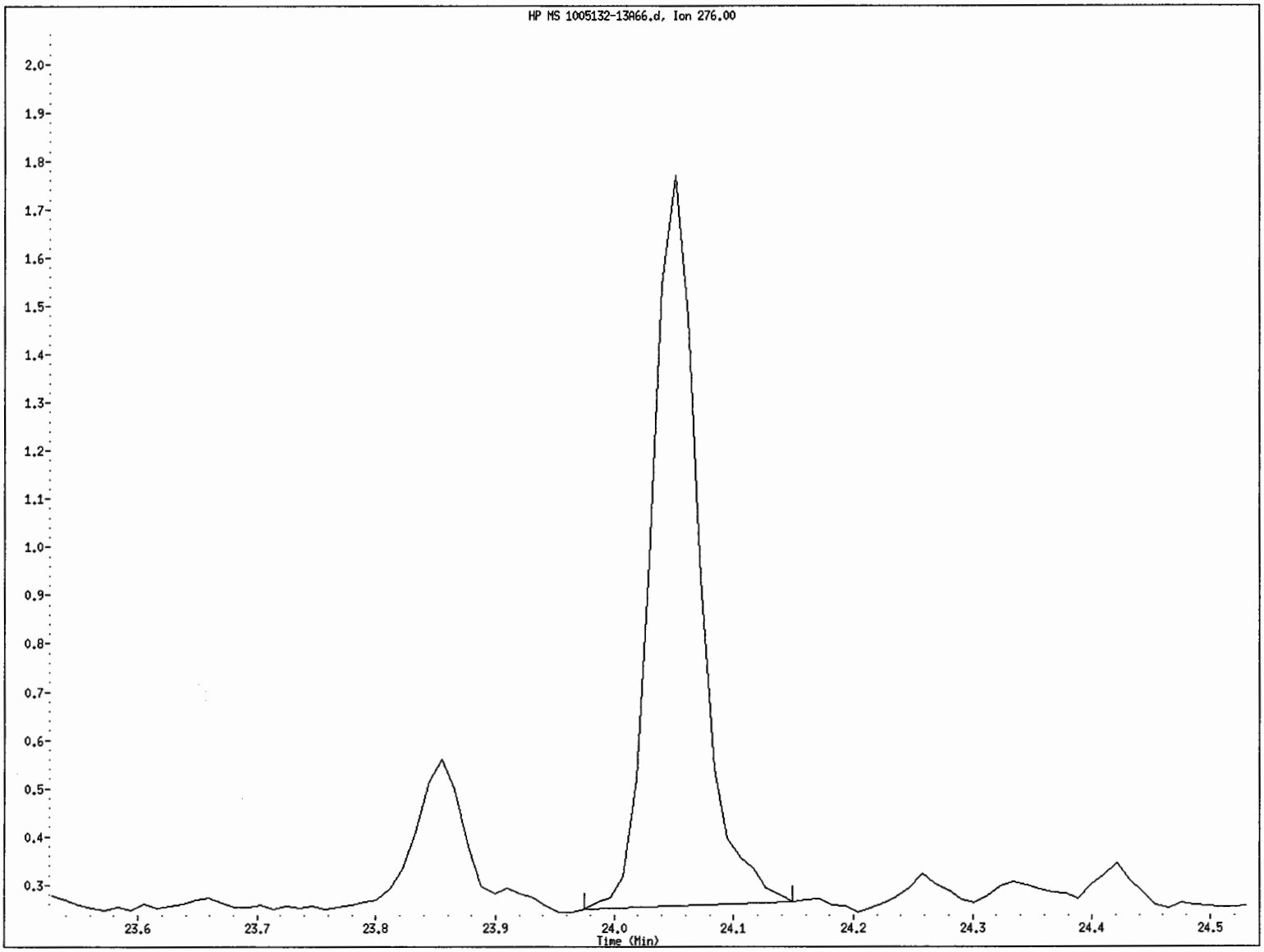
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Benzo(k)fluoranthene CAS Number 207-08-9 Area = 6106 Manually integrated



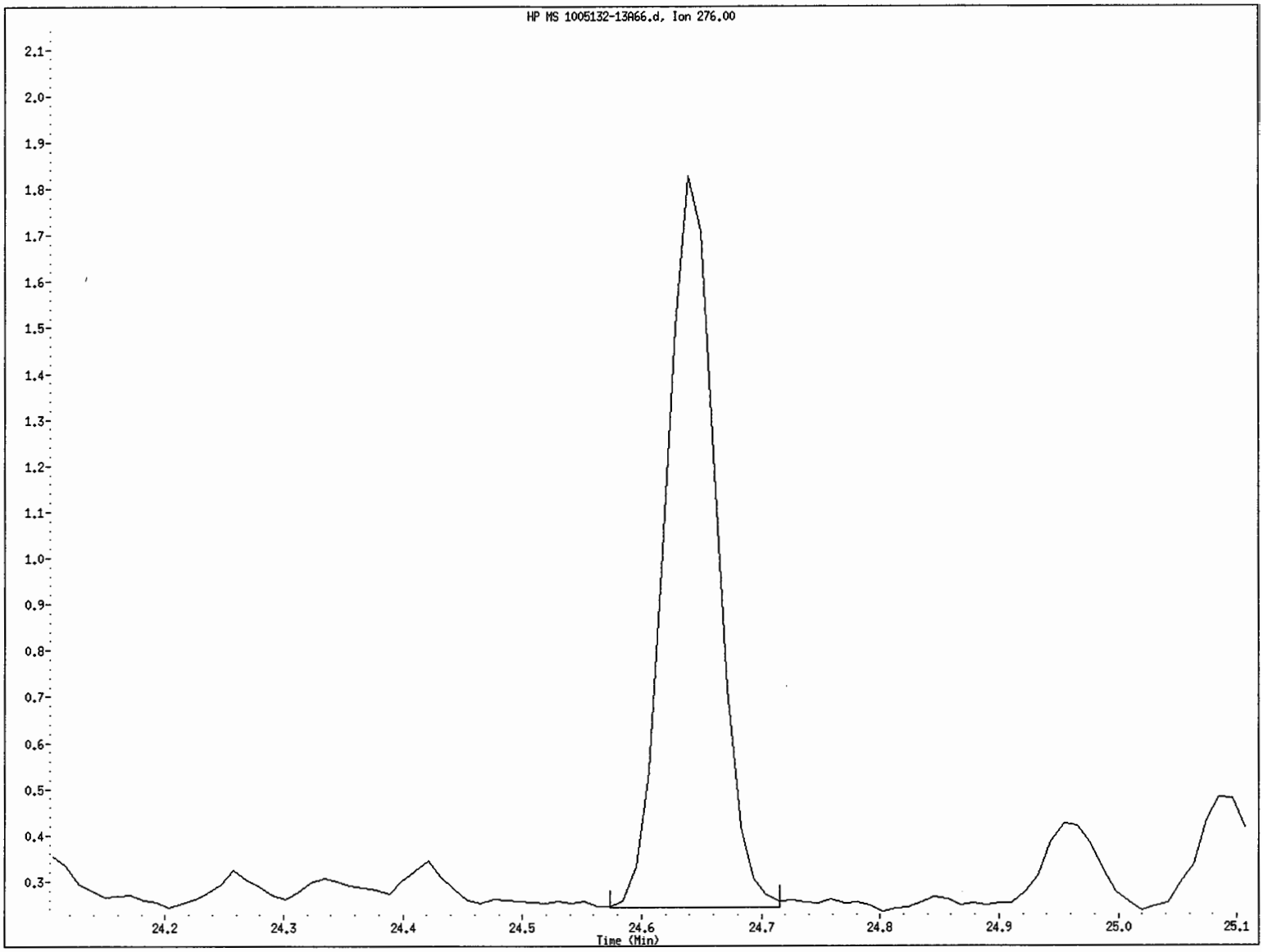
File name: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Client ID: SS84-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 04:52
Retention Time: 21.36
Operator ID: 2730

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 4180 Manually integrated



File name: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Client ID: SS84-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 04:52
Retention Time: 24.05
Operator ID: 2730

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 4653 Manually integrated



File name: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Client ID: SS84-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 04:52
Retention Time: 24.64
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d

Date : 27-MAY-2010 04:52

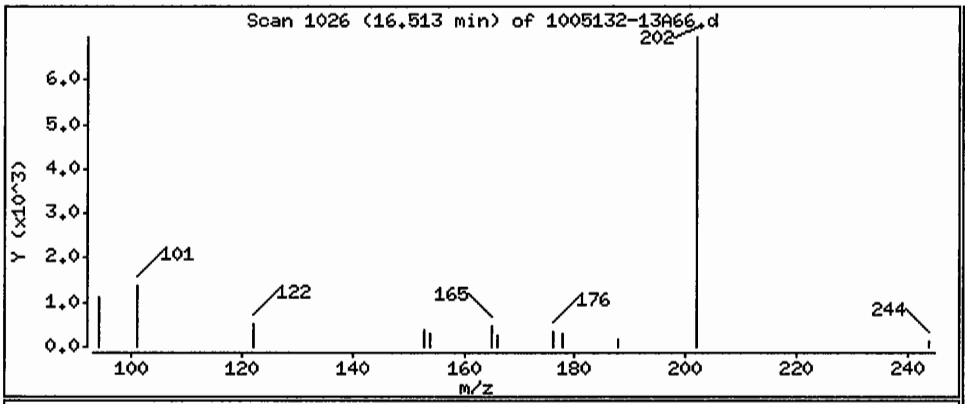
Client ID: SS84-0-1 Instrument: 5972hp66.i

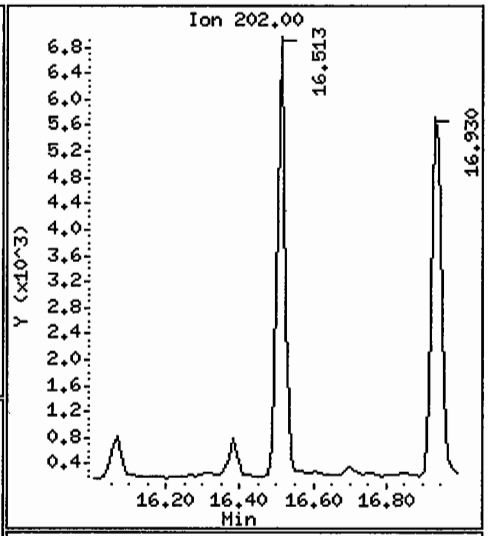
Sample Info: 1005132-13:2730

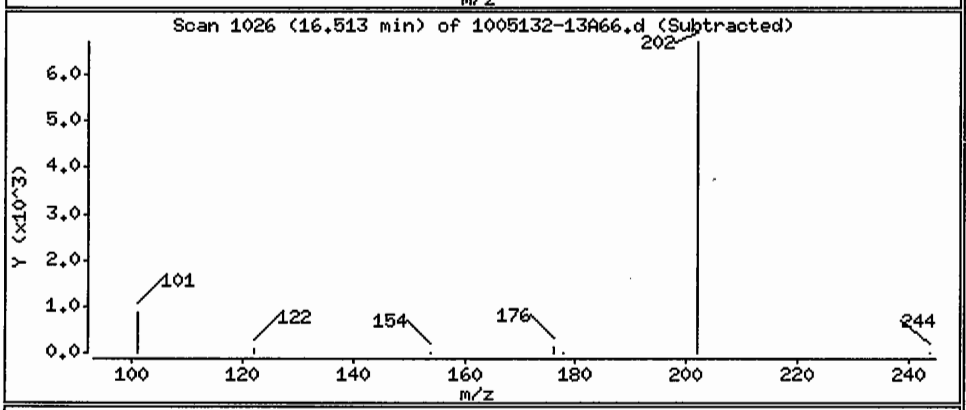
Volume Injected (uL): 2.0 Operator: 2730

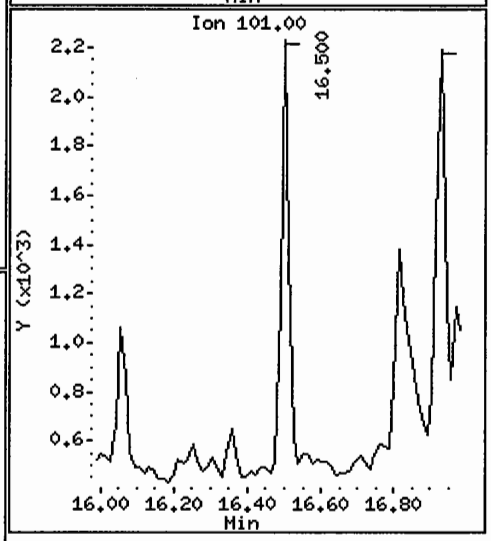
Column phase: Rtx-5MS Column diameter: 0.32

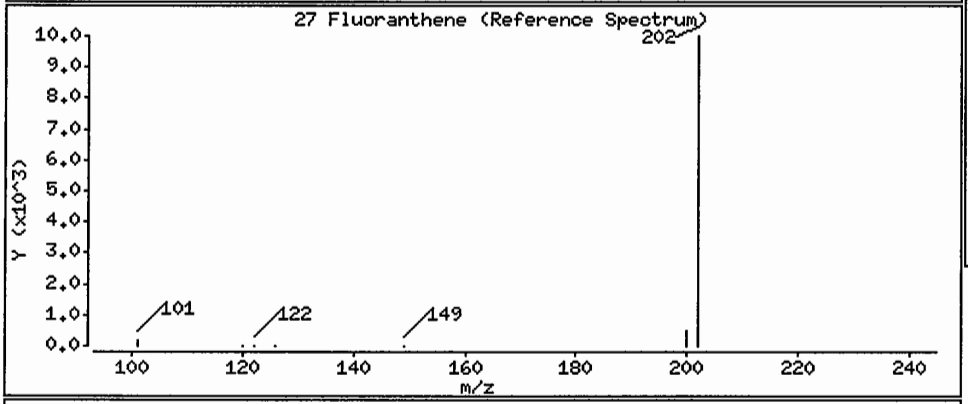
27 Fluoranthene Concentration: 2.5 ug/Kg

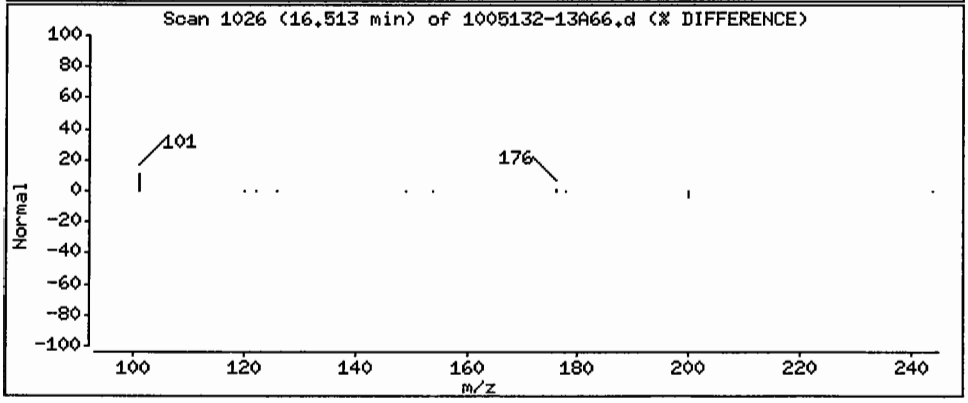












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d

Date : 27-MAY-2010 04:52

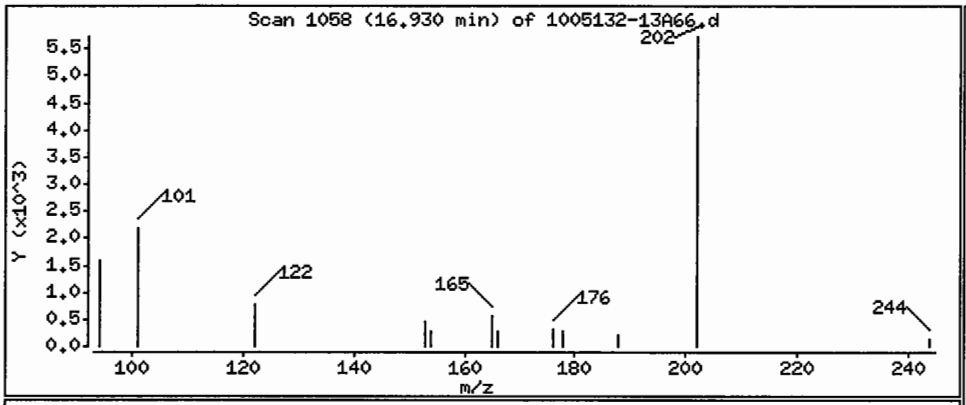
Client ID: SS84-0-1 Instrument: 5972hp66.i

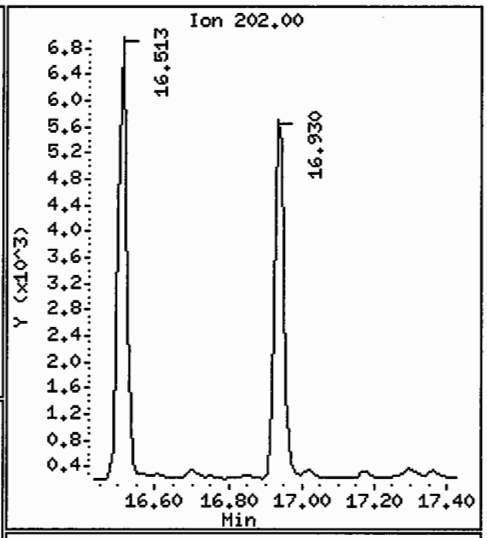
Sample Info: 1005132-13:2730

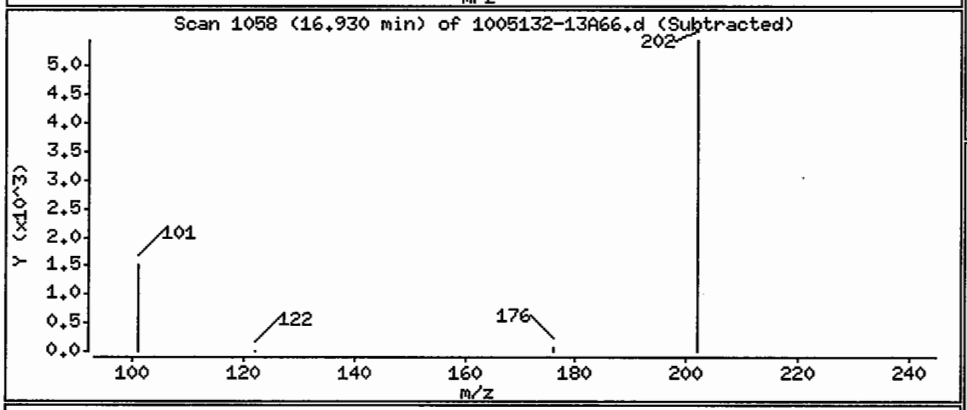
Volume Injected (uL): 2.0 Operator: 2730

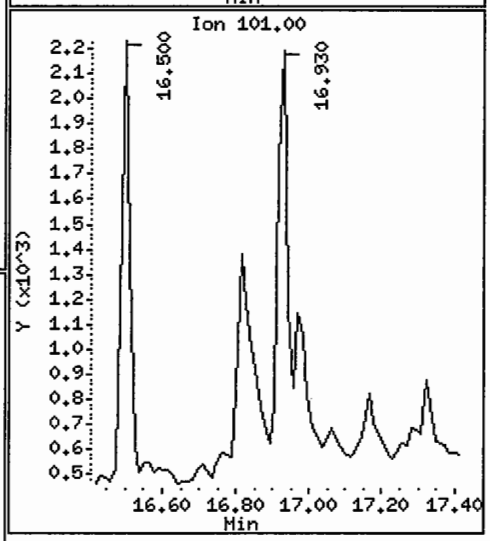
Column phase: Rtx-5MS Column diameter: 0.32

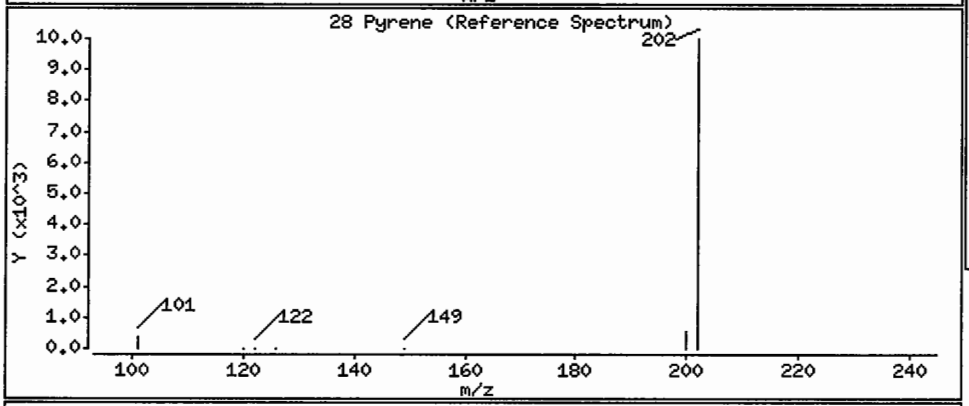
28 Pyrene Concentration: 2.2 ug/Kg

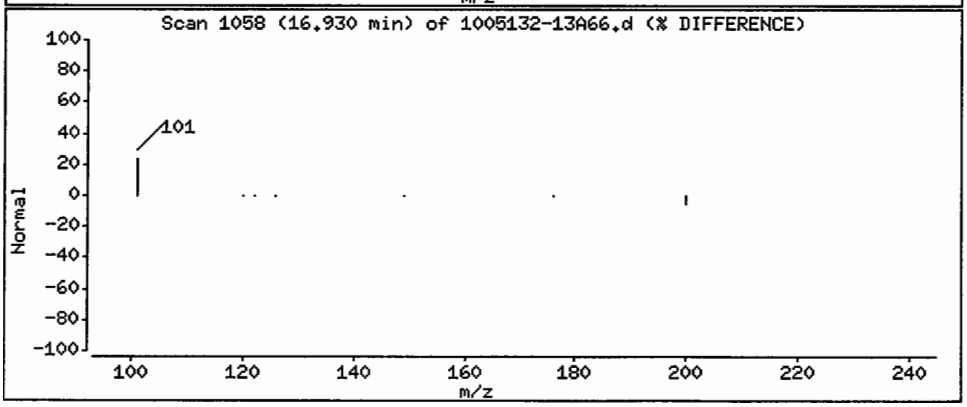












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d

Date : 27-MAY-2010 04:52

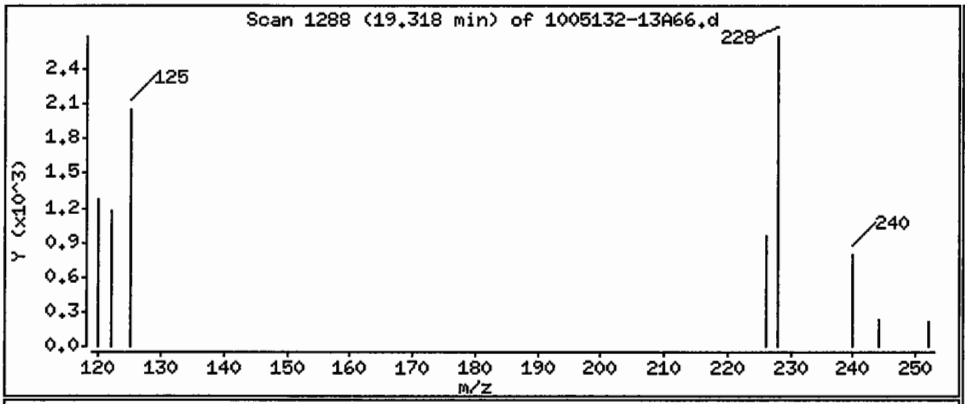
Client ID: SS84-0-1 Instrument: 5972hp66.i

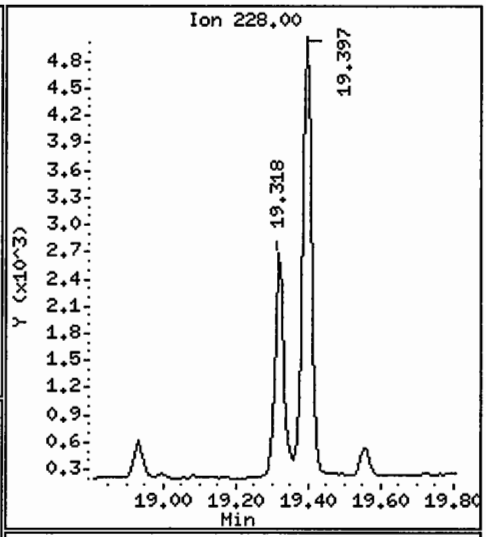
Sample Info: 1005132-13:2730

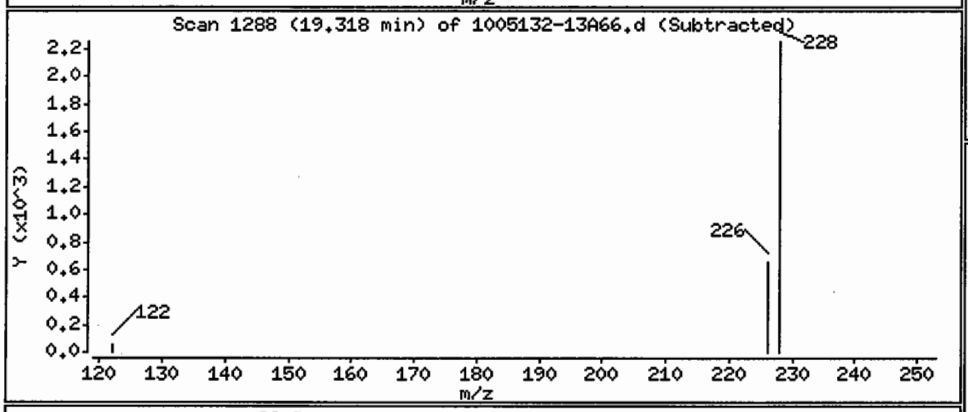
Volume Injected (uL): 2.0 Operator: 2730

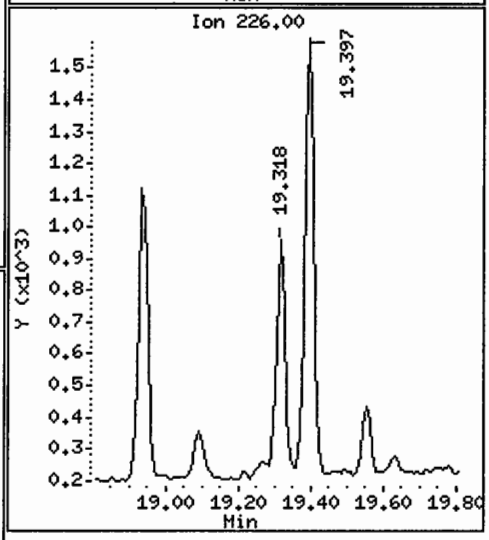
Column phase: Rtx-5MS Column diameter: 0.32

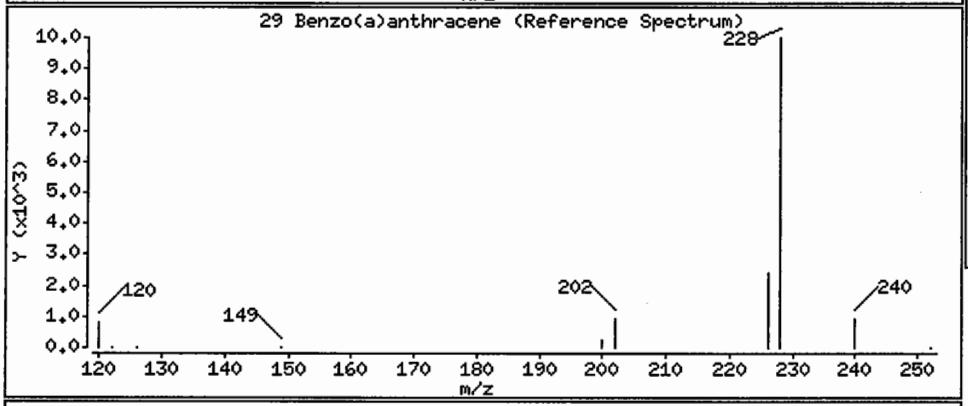
29 Benzo(a)anthracene Concentration: 1.2 ug/Kg

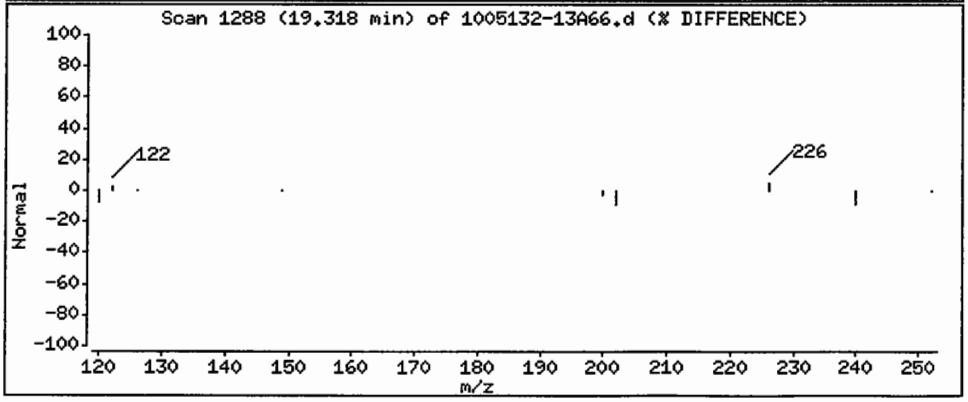












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d

Date : 27-MAY-2010 04:52

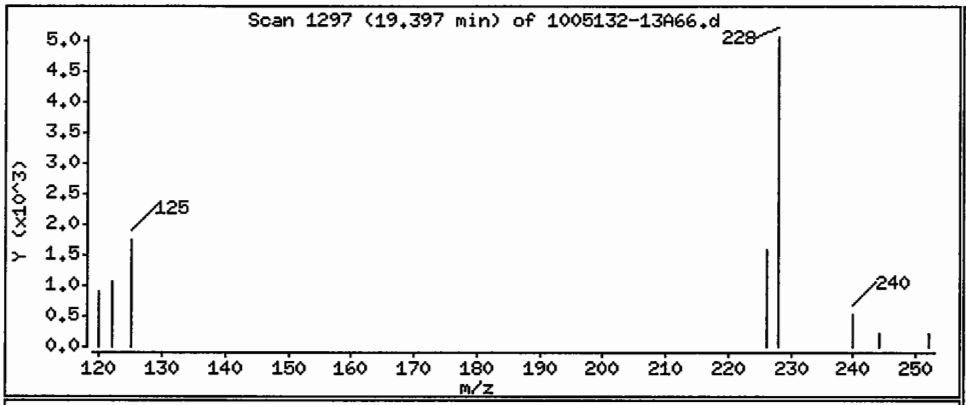
Client ID: SS84-0-1 Instrument: 5972hp66.i

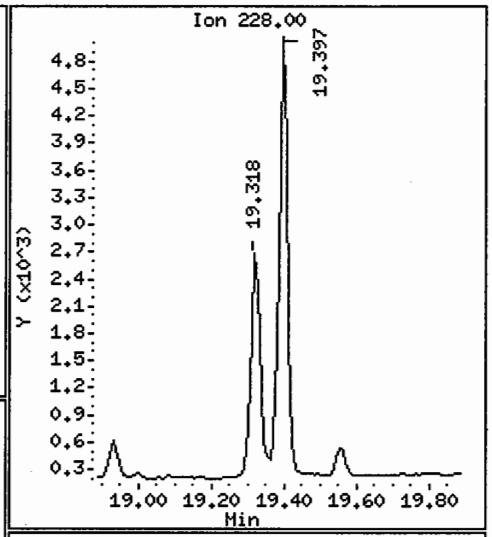
Sample Info: 1005132-13;2730

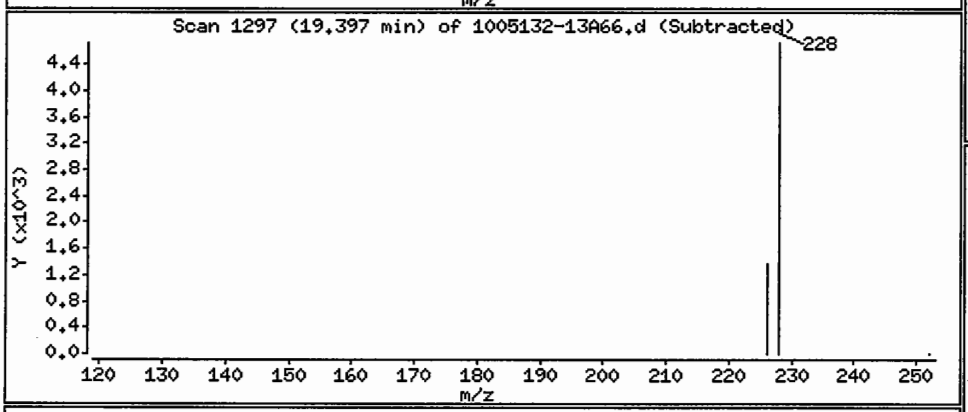
Volume Injected (uL): 2.0 Operator: 2730

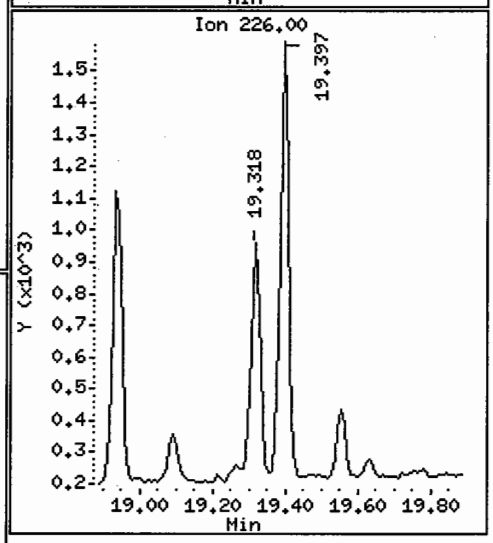
Column phase: Rtx-5MS Column diameter: 0.32

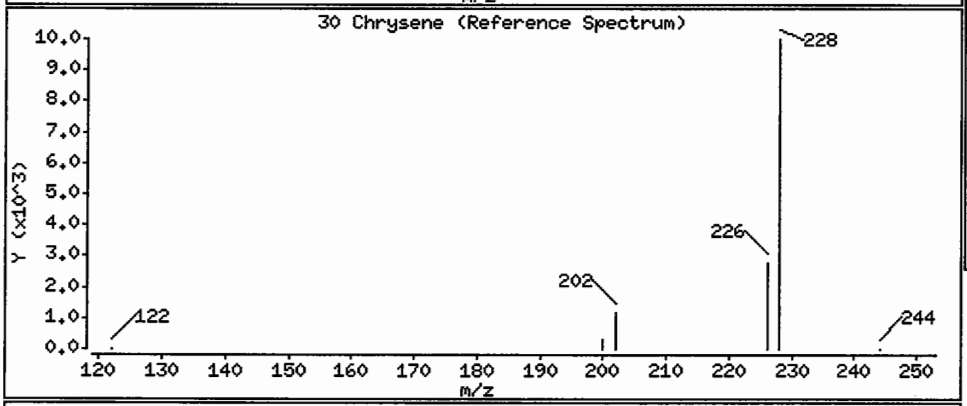
30 Chrysene Concentration: 2.2 ug/Kg

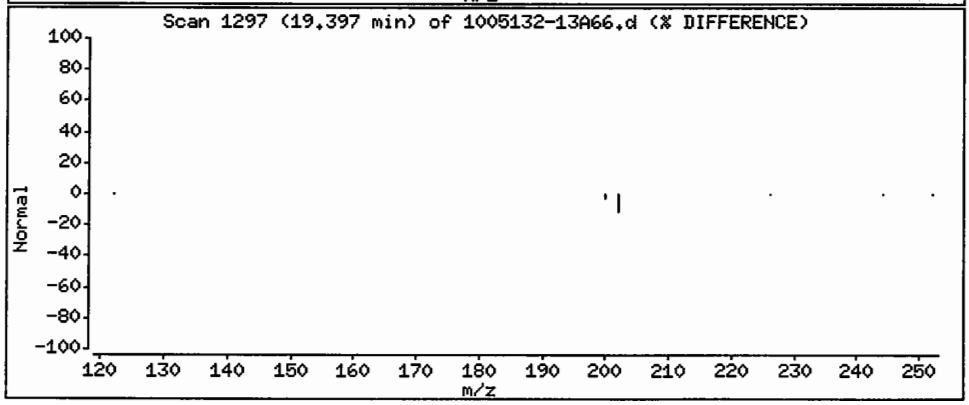












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d

Date : 27-MAY-2010 04:52

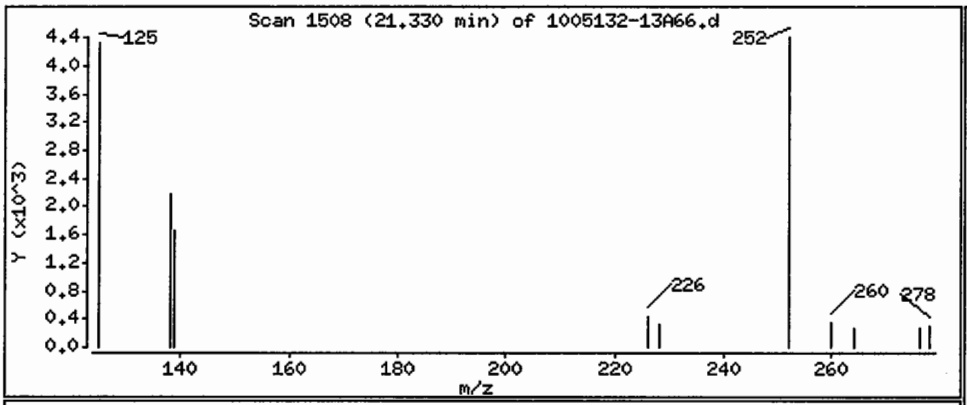
Client ID: SS84-0-1 Instrument: 5972hp66.i

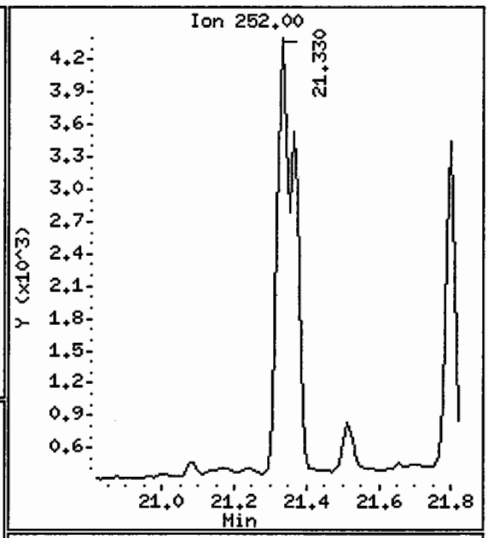
Sample Info: 1005132-13:2730

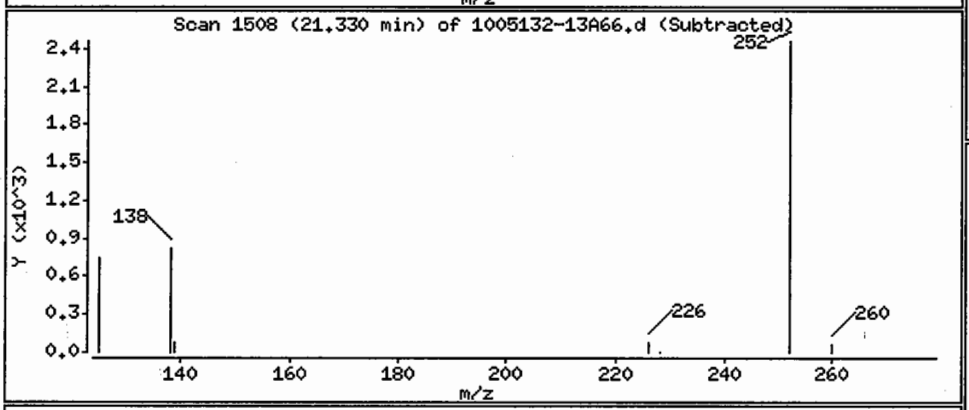
Volume Injected (uL): 2.0 Operator: 2730

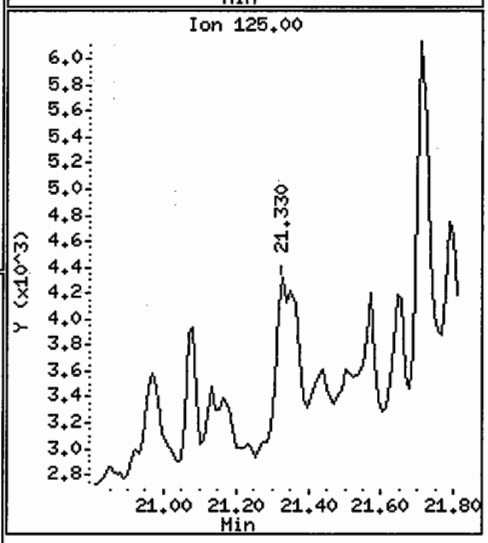
Column phase: Rtx-5MS Column diameter: 0.32

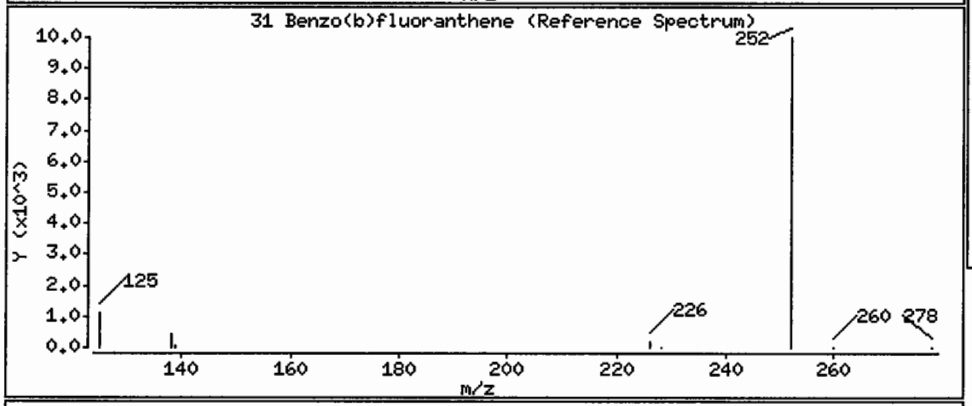
31 Benzo(b)fluoranthene Concentration: 2.1 ug/Kg

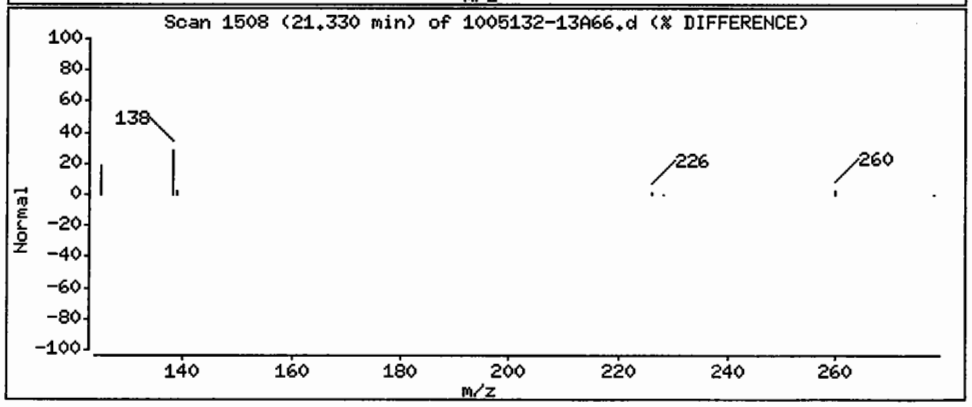












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d

Date : 27-MAY-2010 04:52

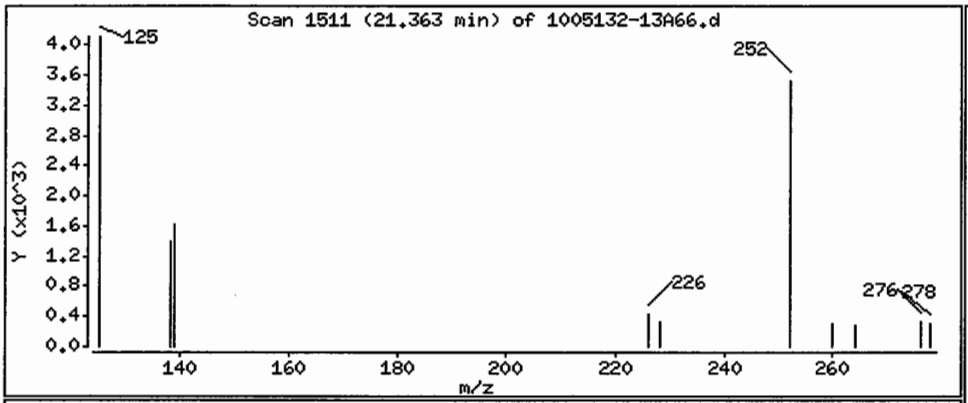
Client ID: SS84-0-1 Instrument: 5972hp66.i

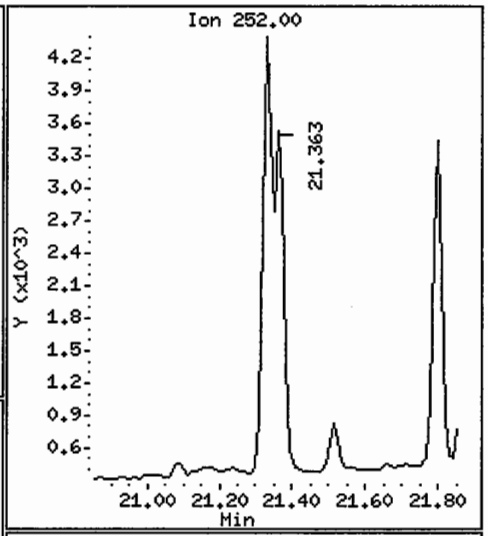
Sample Info: 1005132-13:2730

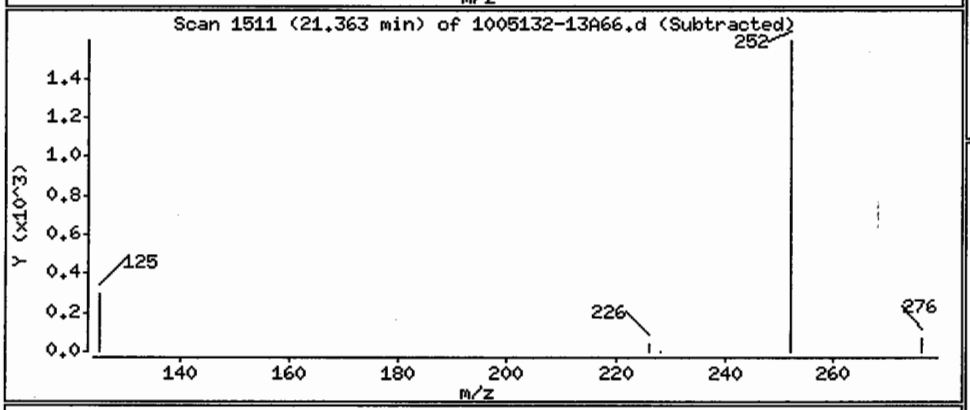
Volume Injected (uL): 2.0 Operator: 2730

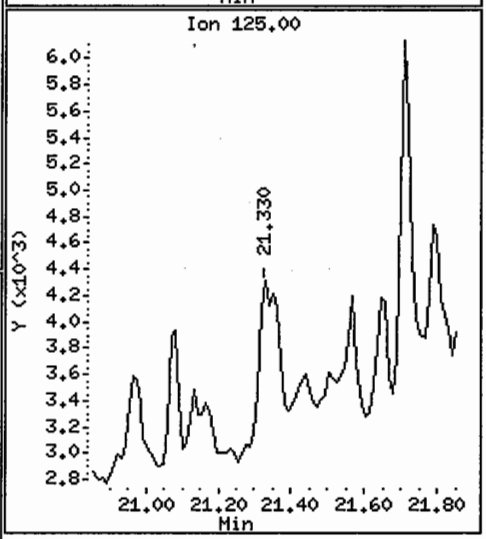
Column phase: Rtx-5MS Column diameter: 0.32

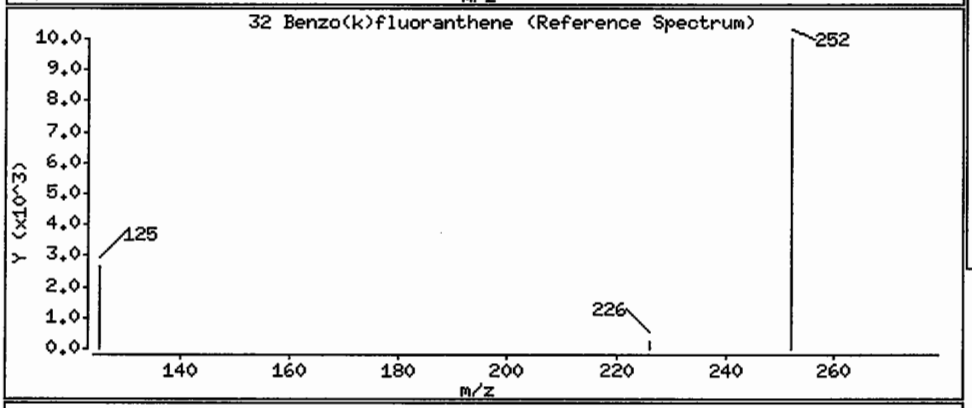
32 Benzo(k)fluoranthene Concentration: 1.5 ug/Kg

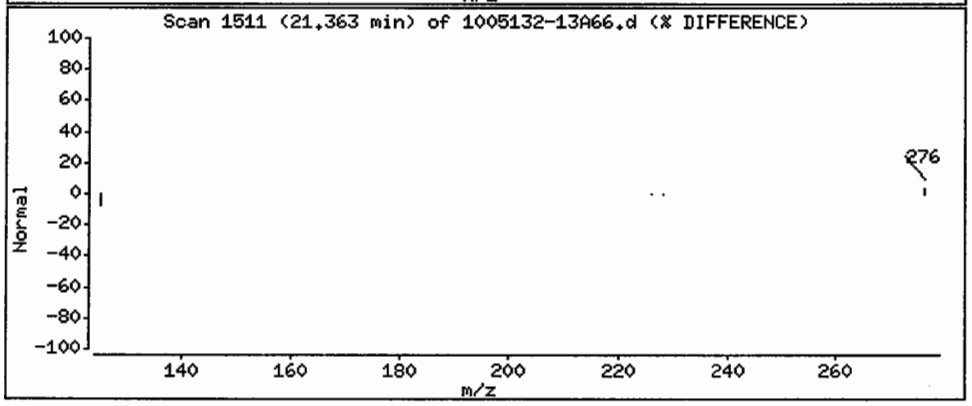












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d

Date : 27-MAY-2010 04:52

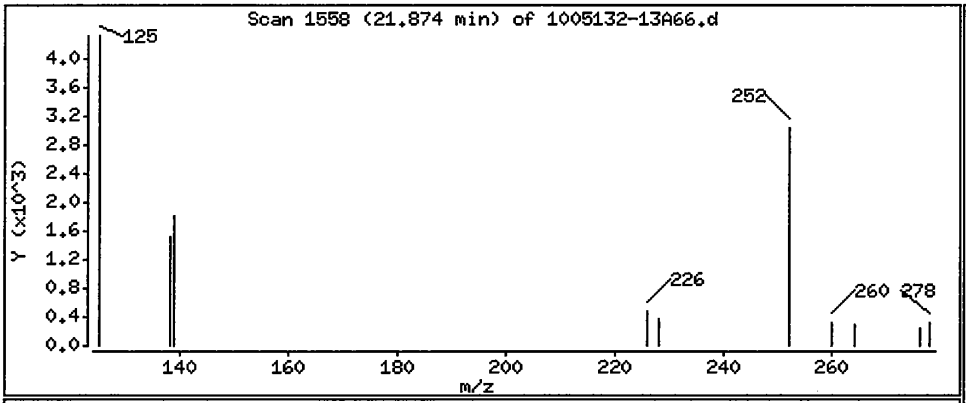
Client ID: SS84-0-1 Instrument: 5972hp66.i

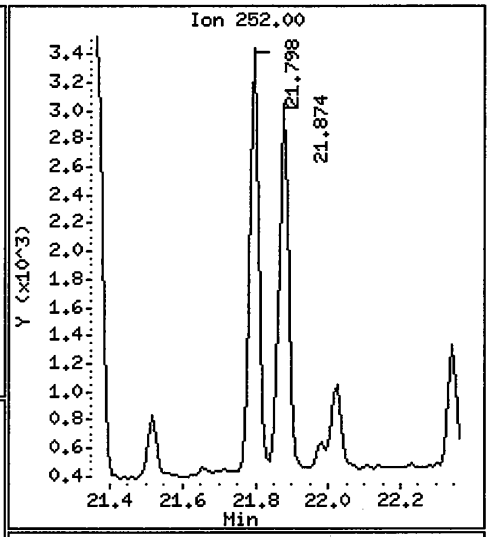
Sample Info: 1005132-13:2730

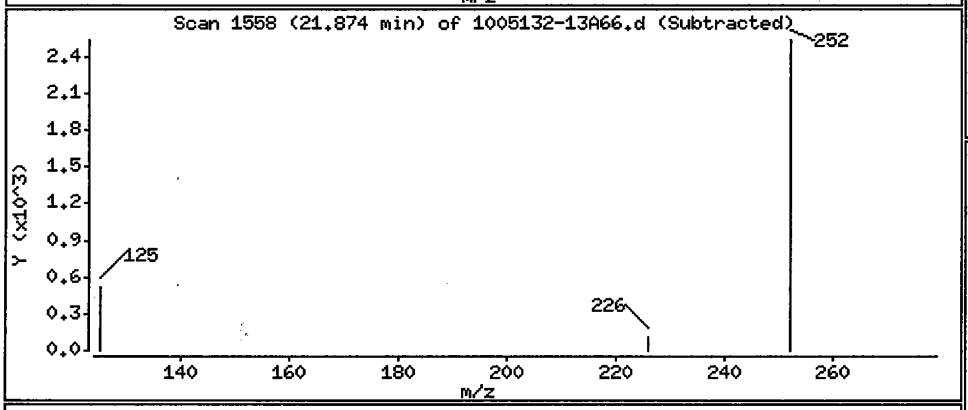
Volume Injected (uL): 2.0 Operator: 2730

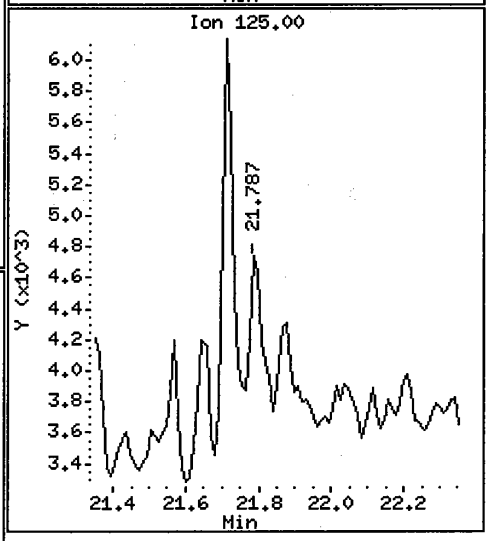
Column phase: Rtx-5MS Column diameter: 0.32

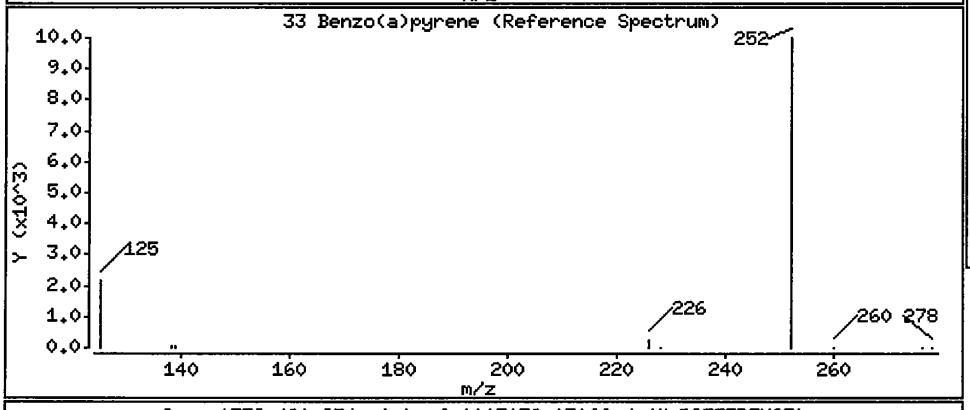
33 Benzo(a)pyrene Concentration: 1.3 ug/Kg

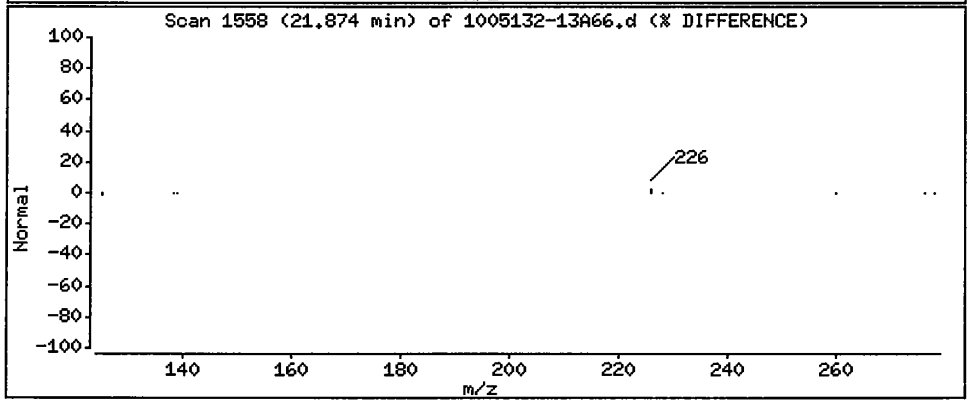












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d

Date : 27-MAY-2010 04:52

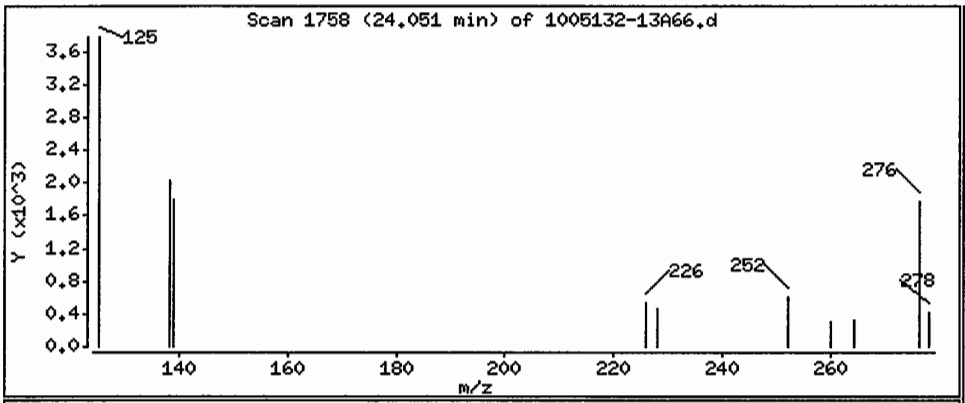
Client ID: SS84-0-1 Instrument: 5972hp66.i

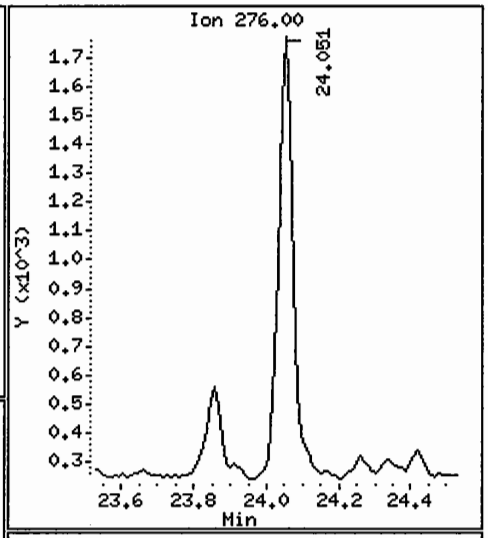
Sample Info: 1005132-13:2730

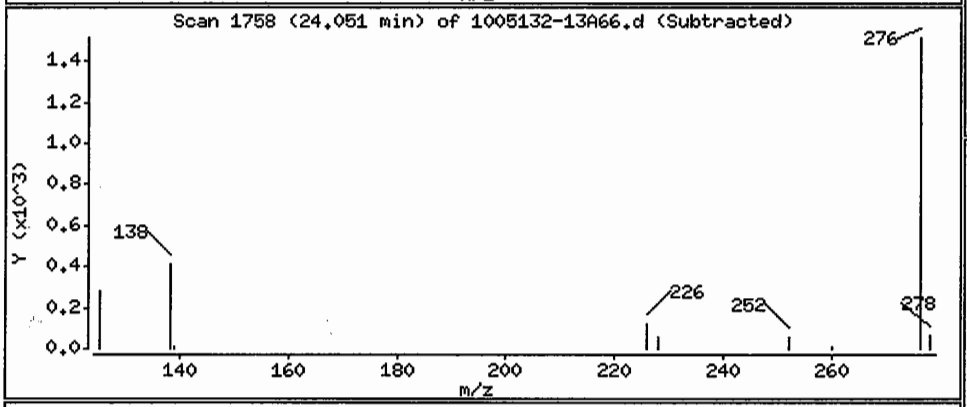
Volume Injected (uL): 2.0 Operator: 2730

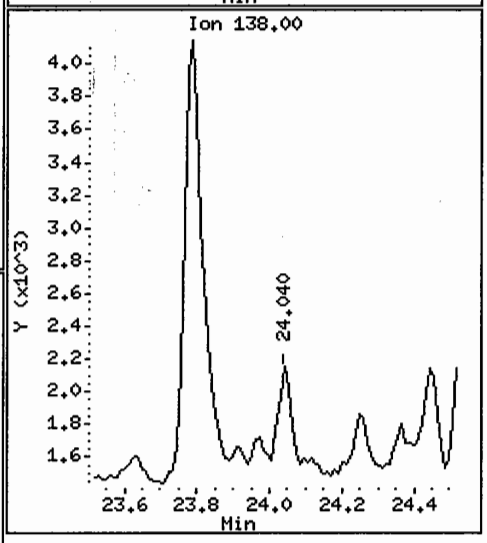
Column phase: Rtx-5MS Column diameter: 0.32

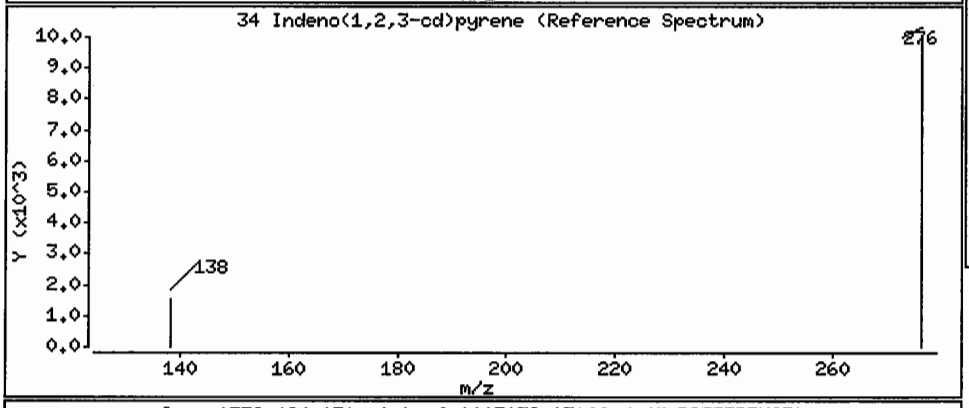
34 Indeno(1,2,3-cd)pyrene Concentration: 1.4 ug/Kg

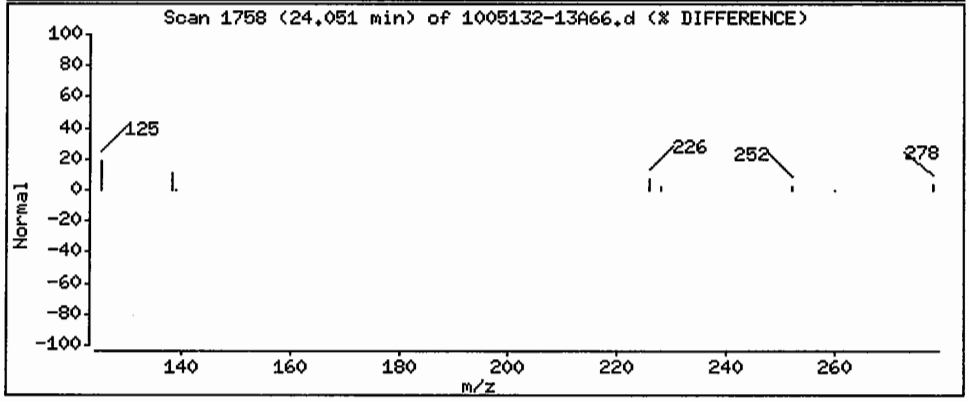












Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d

Date : 27-MAY-2010 04:52

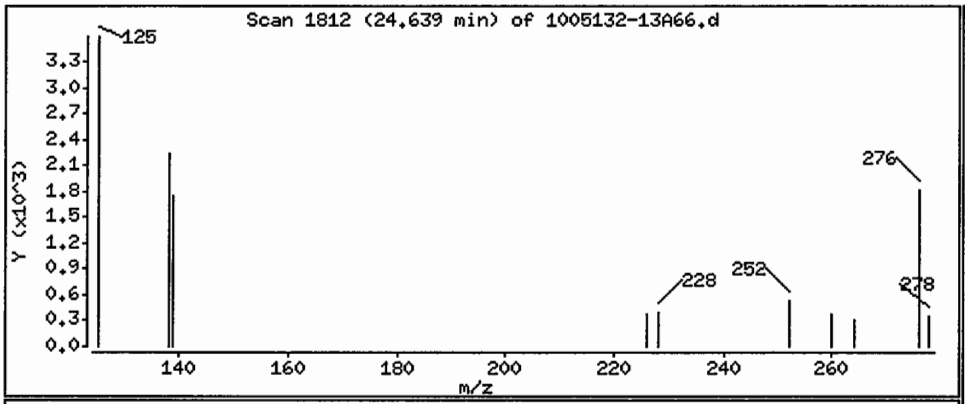
Client ID: SS84-0-1 Instrument: 5972hp66.i

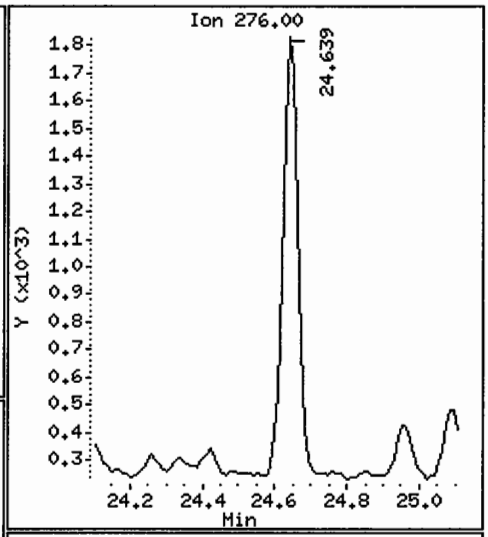
Sample Info: 1005132-13:2730

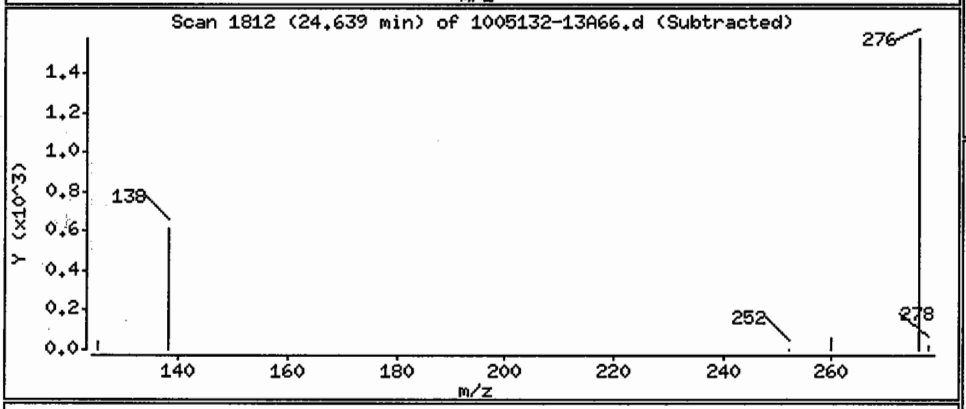
Volume Injected (uL): 2.0 Operator: 2730

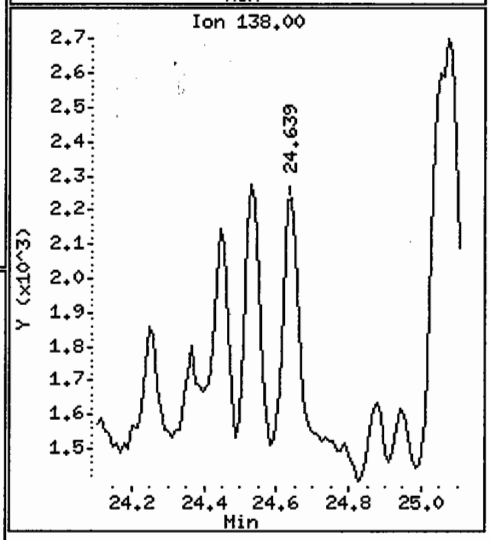
Column phase: Rtx-5MS Column diameter: 0.32

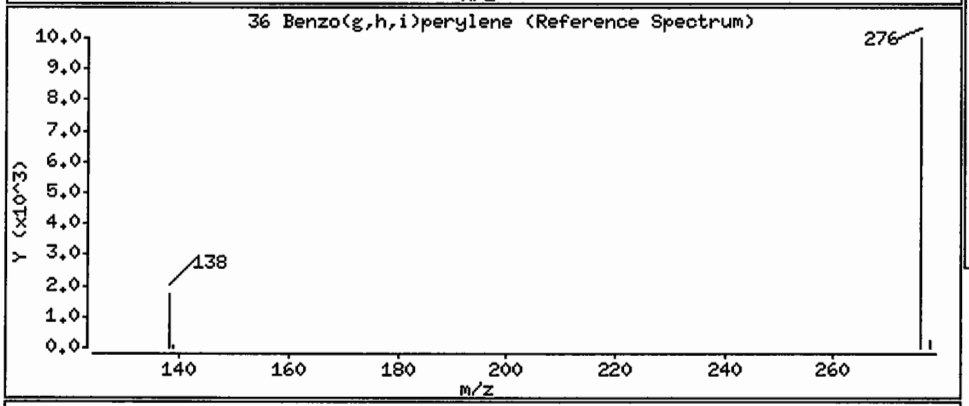
36 Benzo(g,h,i)perylene Concentration: 1.4 ug/Kg

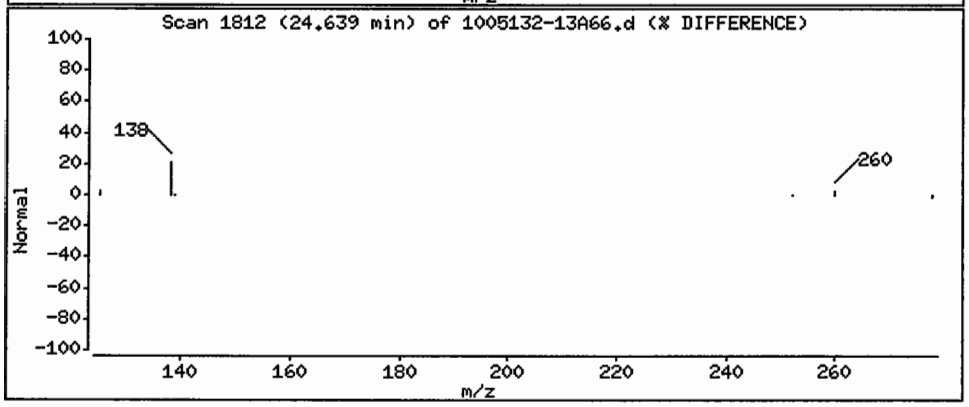






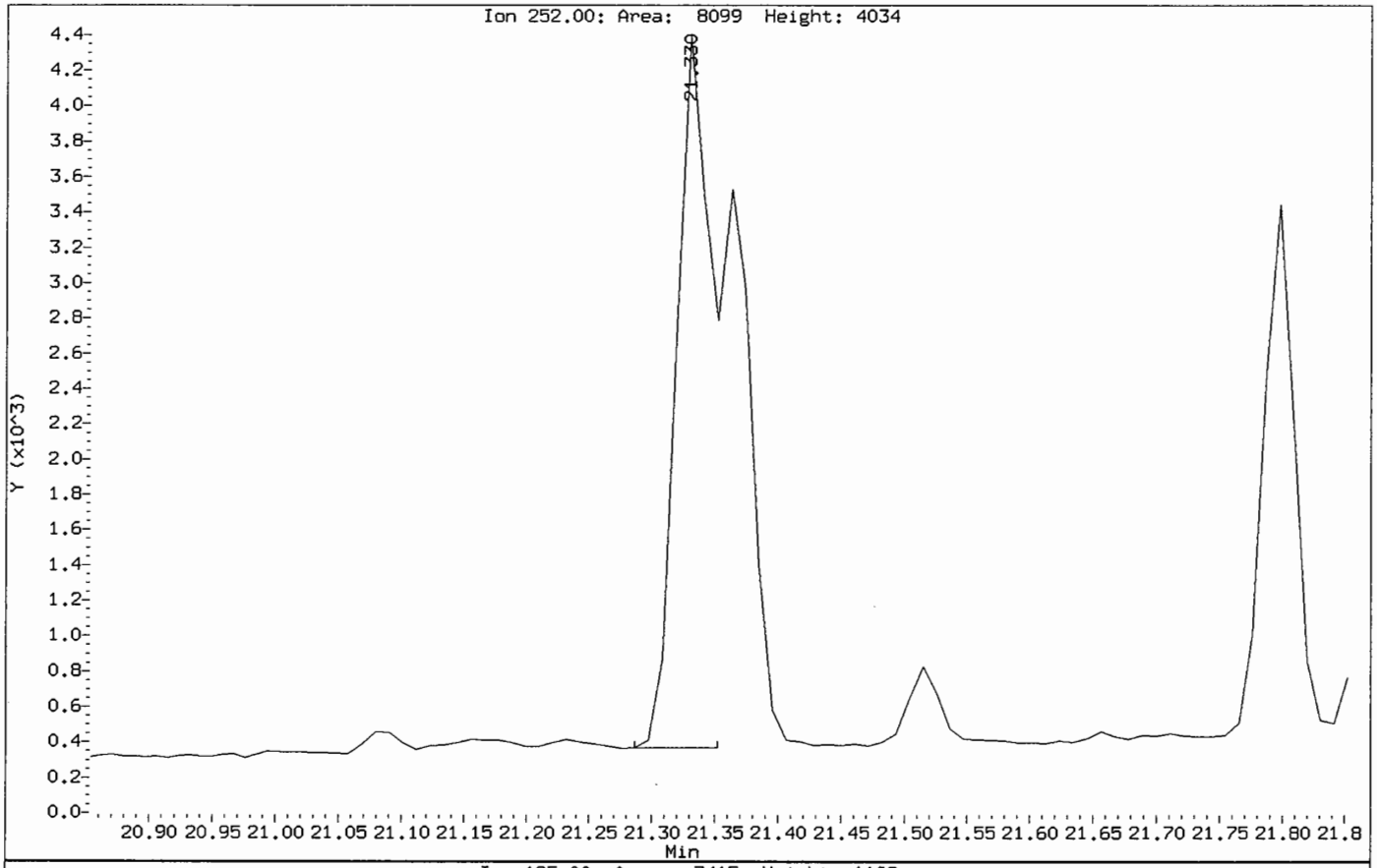


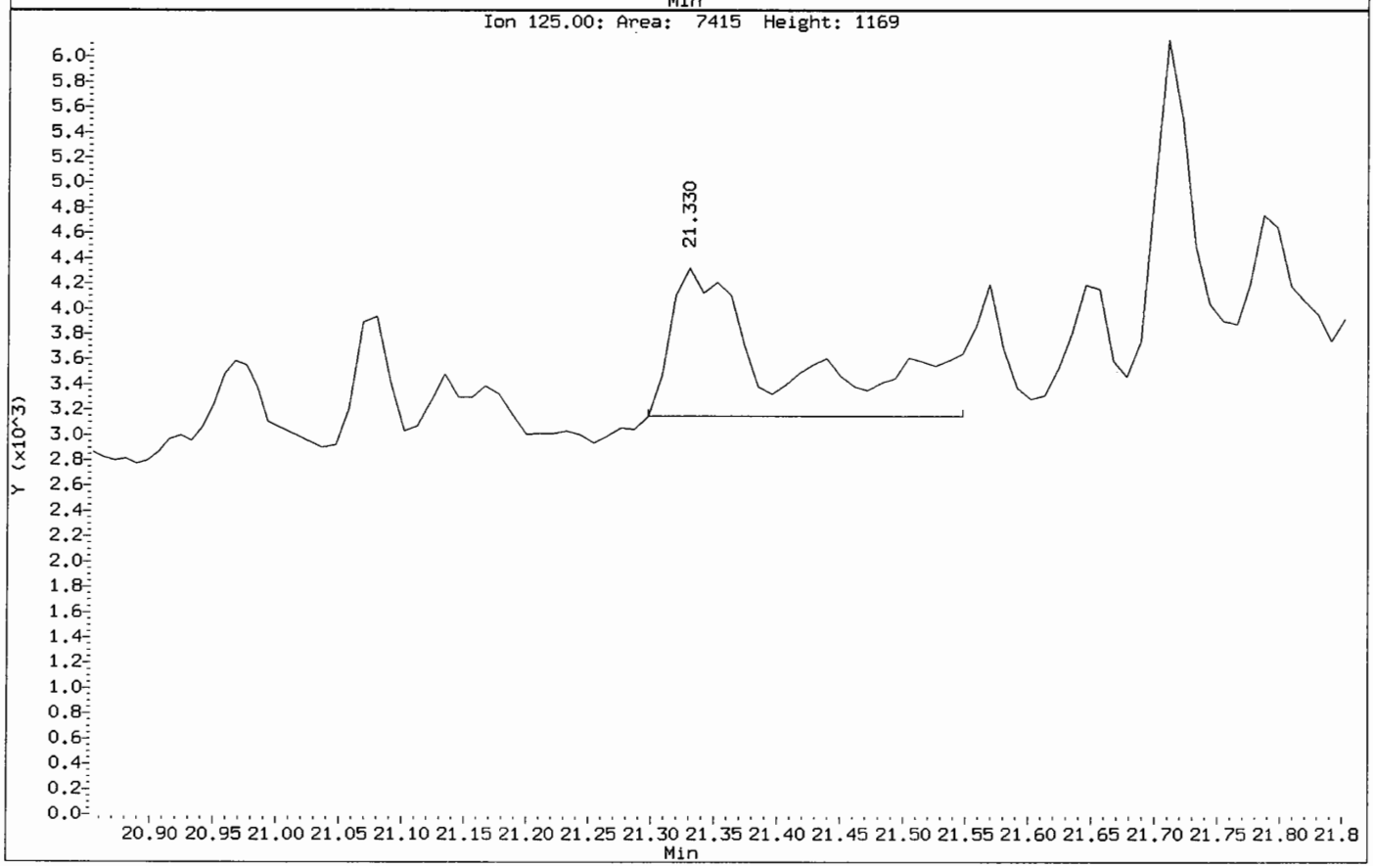




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Injection Date: 27-MAY-2010 04:52
Instrument: 5972hp66.i
Client Sample ID: SS84-0-1

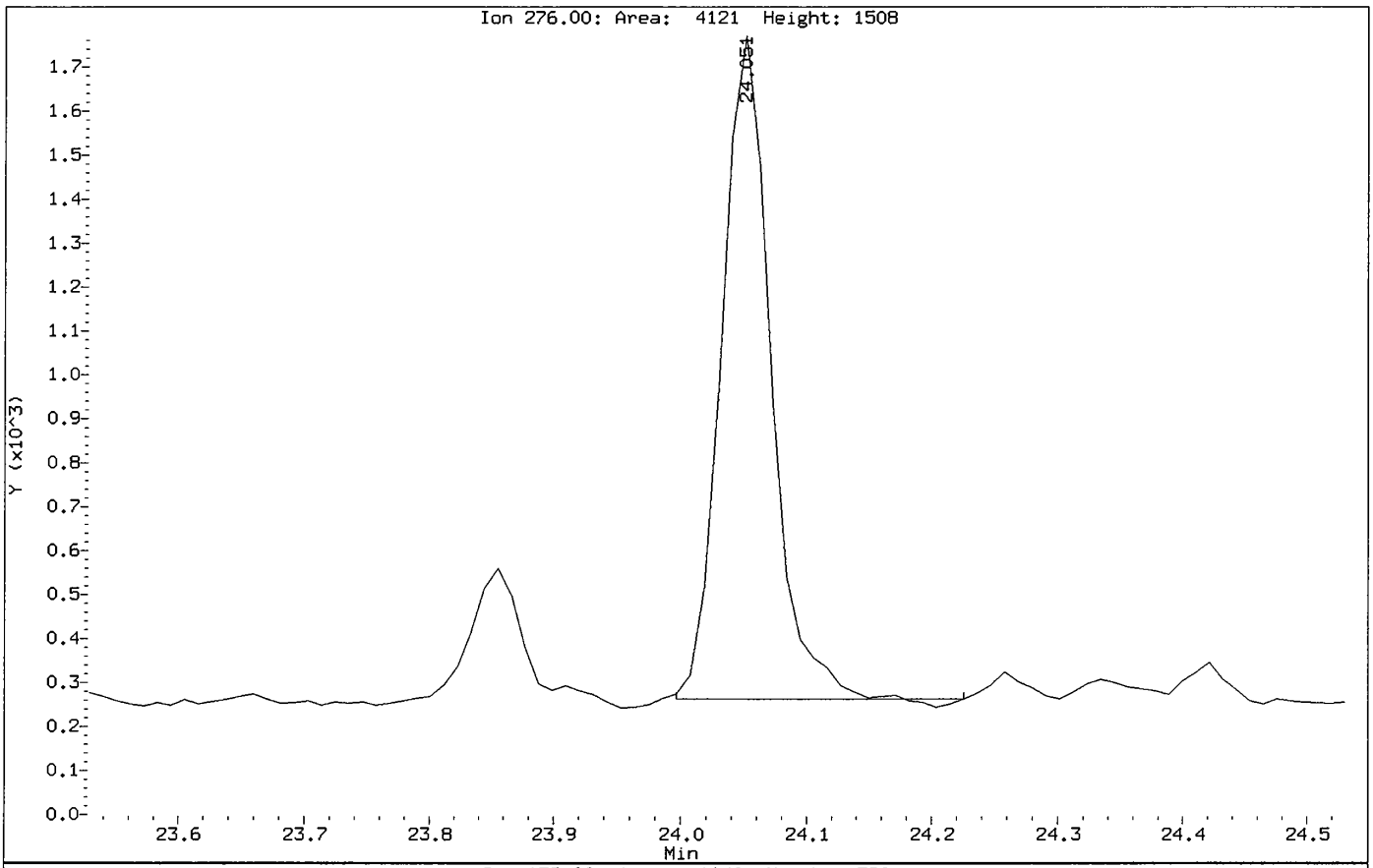
Compound: Benzo(k)fluoranthene
CAS Number: 207-08-9

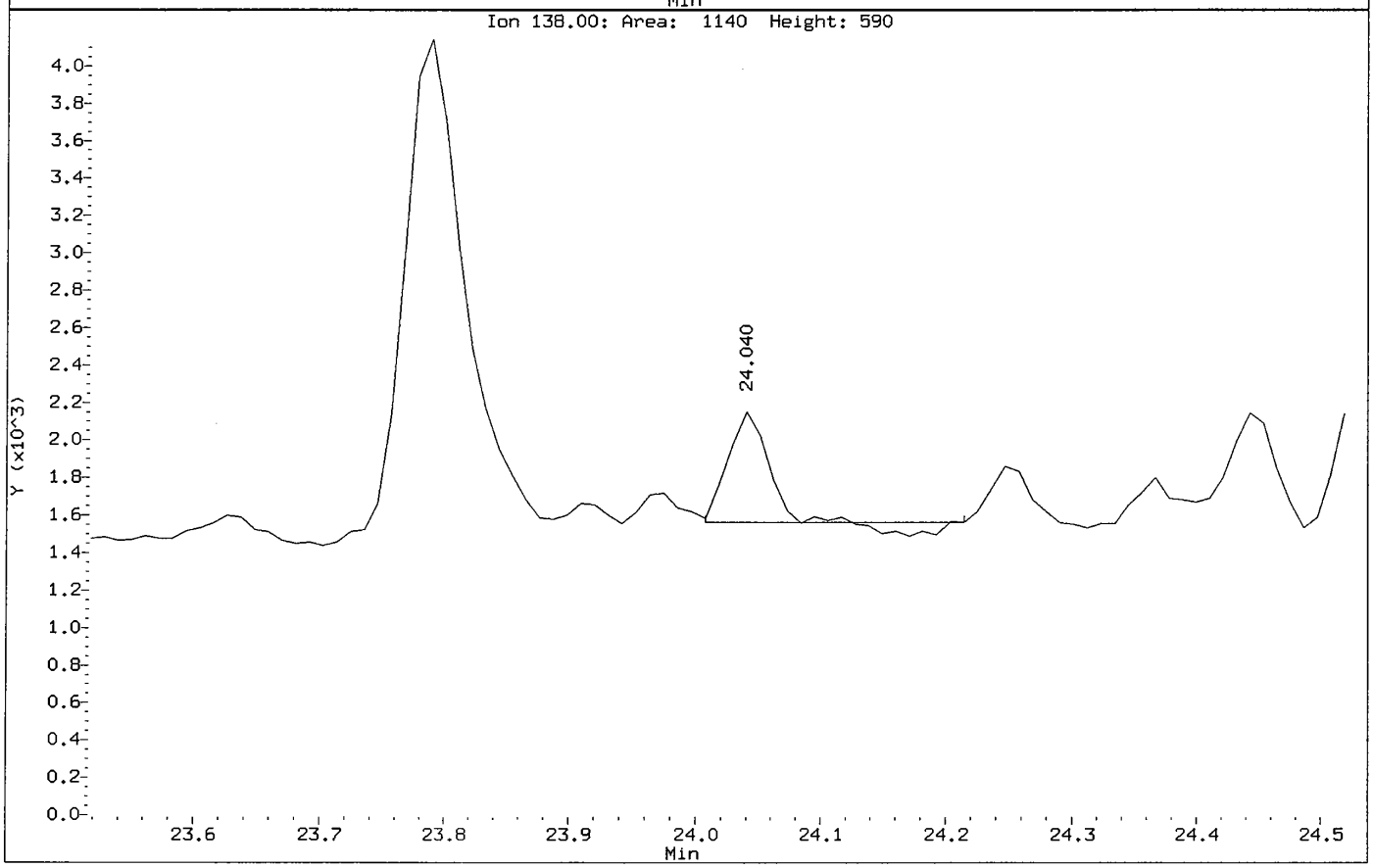




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Injection Date: 27-MAY-2010 04:52
Instrument: 5972hp66.i
Client Sample ID: SS84-0-1

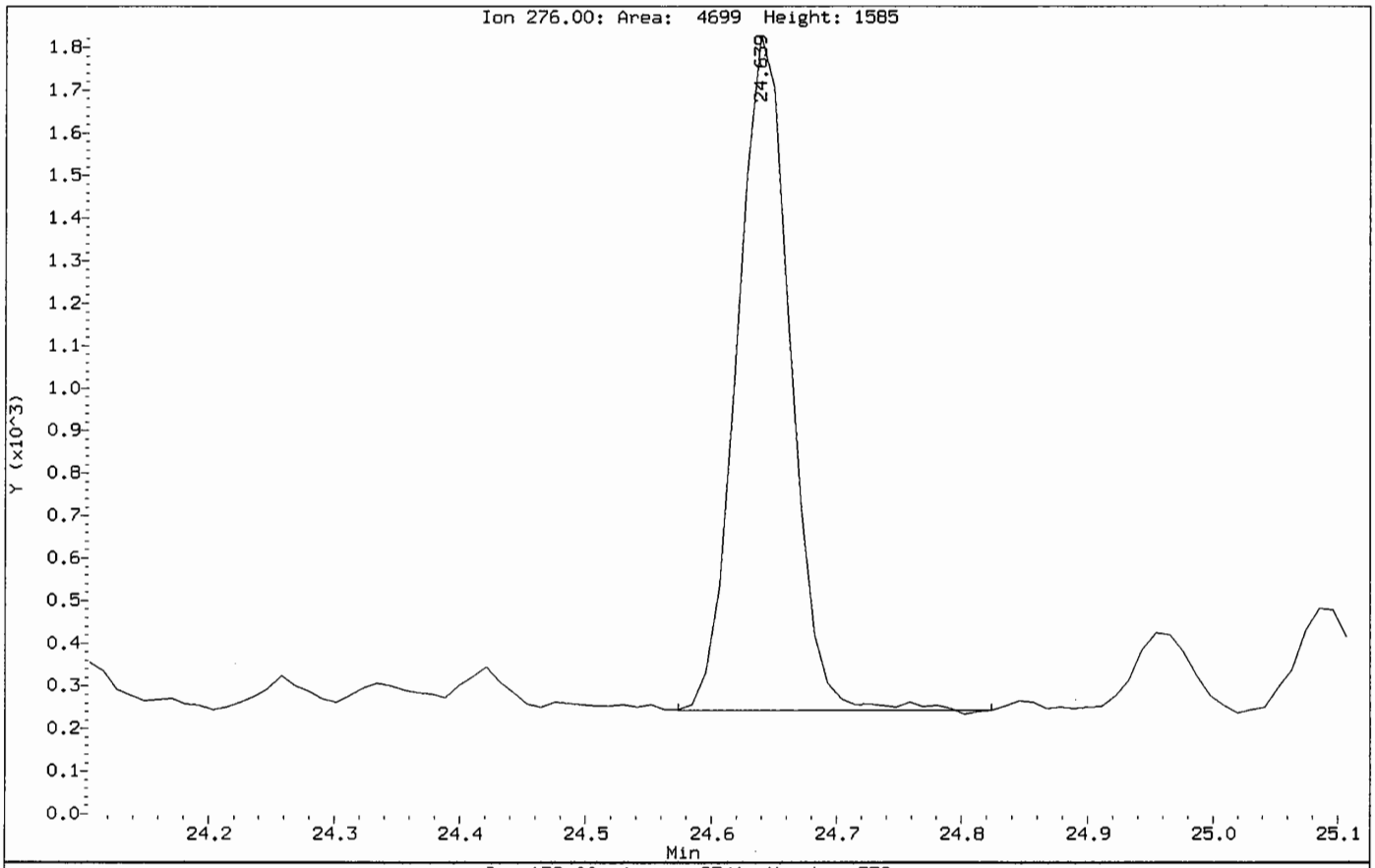
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5

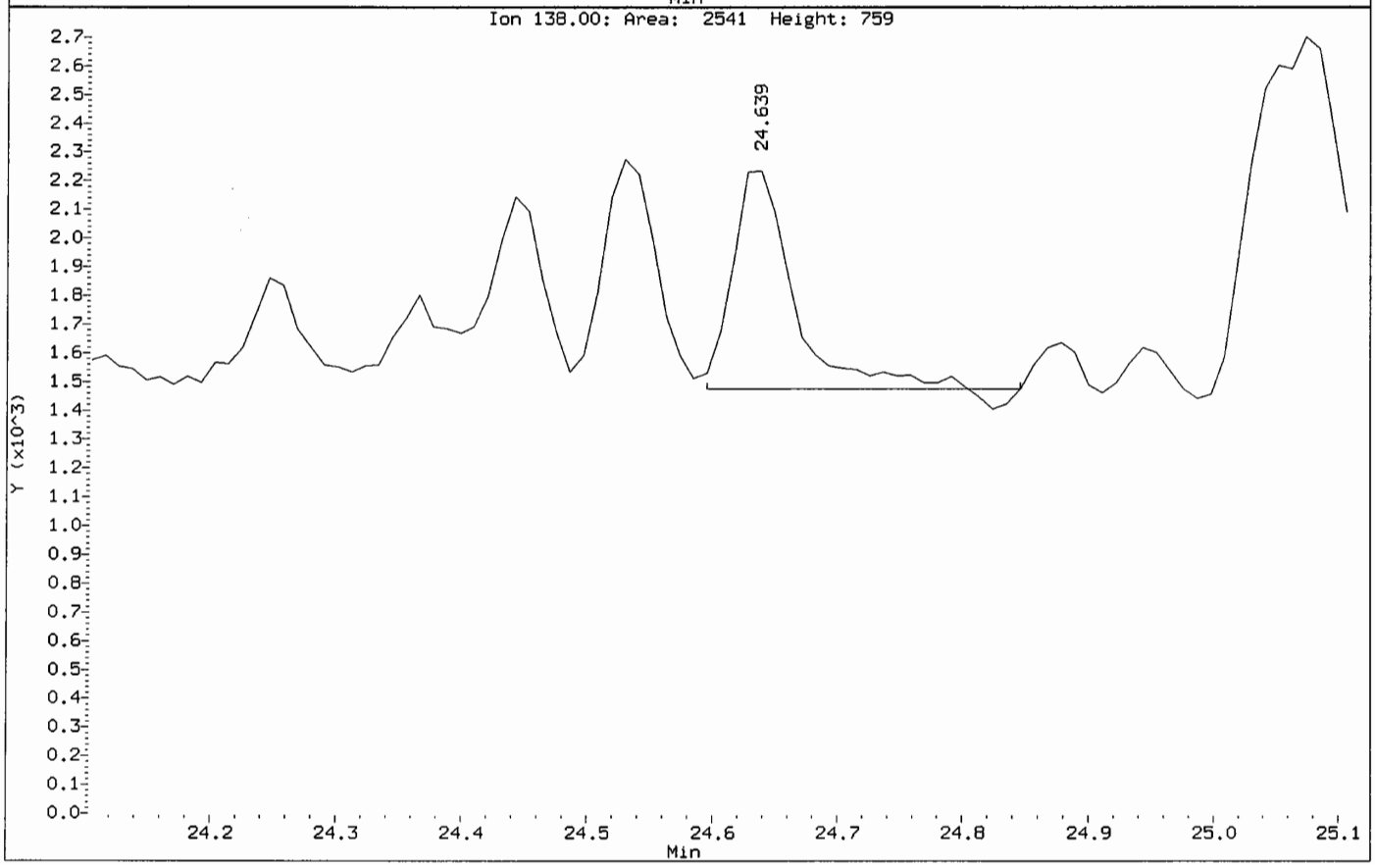




Data File: /chem/5972hp66.i/DS100526A66.b/1005132-13A66.d
Injection Date: 27-MAY-2010 04:52
Instrument: 5972hp66.i
Client Sample ID: SS84-0-1

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SS84-0-1RE

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-13JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 5 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

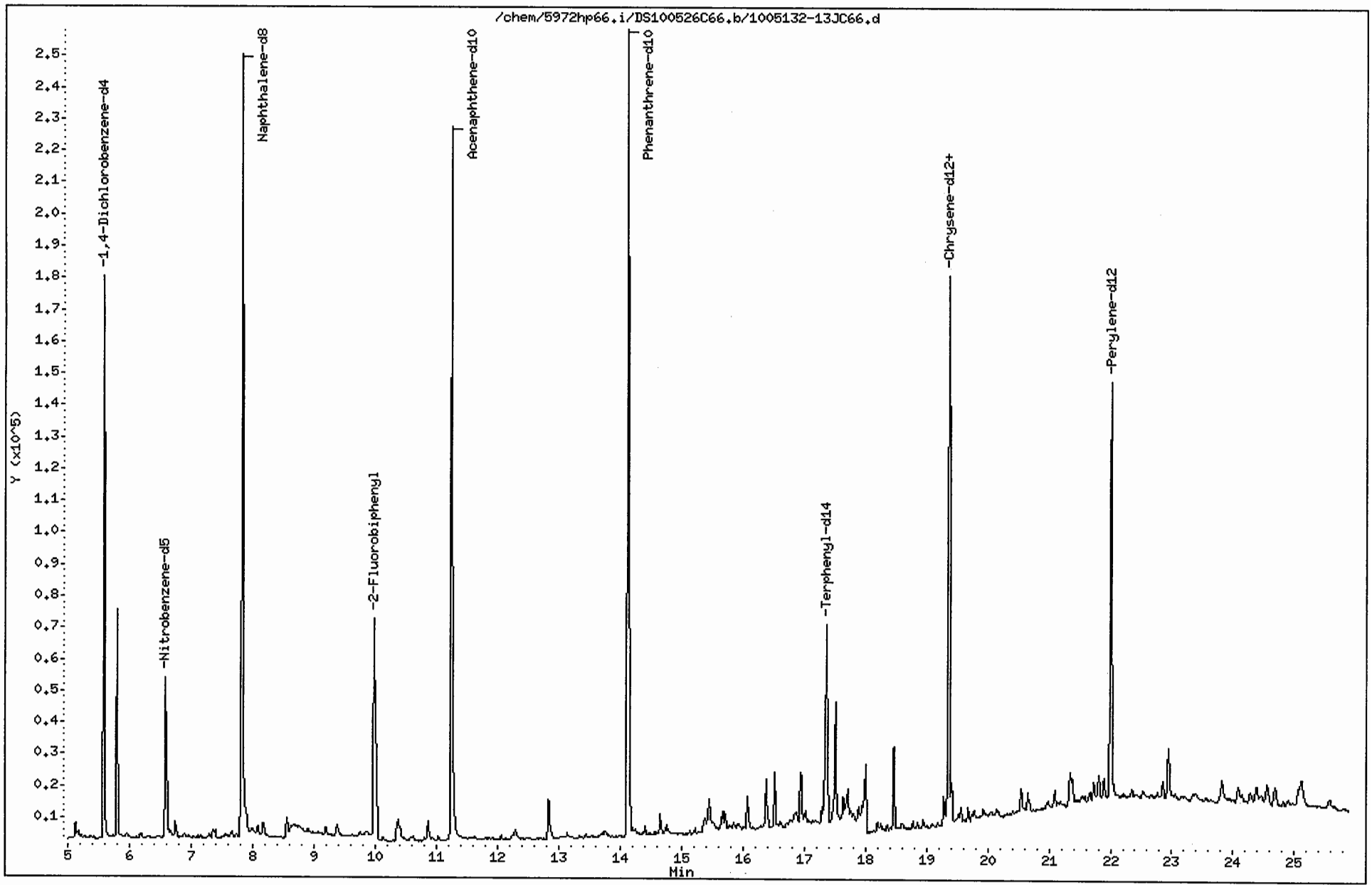
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	8.7	U
91-57-6	2-Methylnaphthalene	8.7	U
208-96-8	Acenaphthylene	8.7	U
83-32-9	Acenaphthene	8.7	U
86-73-7	Fluorene	8.7	U
85-01-8	Phenanthrene	8.7	U
120-12-7	Anthracene	8.7	U
206-44-0	Fluoranthene	2.7	J
129-00-0	Pyrene	2.4	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	2.0	J
205-99-2	Benzo(b)fluoranthene	1.8	J
207-08-9	Benzo(k)fluoranthene	1.8	J
50-32-8	Benzo(a)pyrene	1.3	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.3	J
53-70-3	Dibenzo(a,h)anthracene	8.7	U
191-24-2	Benzo(g,h,i)perylene	1.3	J

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d
Date : 27-MAY-2010 10:39
Client ID: SS84-0-1RE
Sample Info: 1005132-13;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d
Report Date: 03-Jun-2010 14:40

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d
Lab Smp Id: 1005132-13 Client Smp ID: SS84-0-1RE
Inj Date : 27-MAY-2010 10:39
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-13:2743
Misc Info : SS84-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526C66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 13:52 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	5.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.585	5.570	(1.000)	97208	2.00000		(a)
* 2 Naphthalene-d8	136	7.827	7.812	(1.000)	381791	2.00000		(a)
* 3 Acenaphthene-d10	164	11.244	11.243	(1.000)	181881	2.00000		(a)
* 4 Phenanthrene-d10	188	14.126	14.114	(1.000)	357510	2.00000		(a)
* 5 Chrysene-d12	240	19.371	19.353	(1.000)	231168	2.00000		(a)
* 6 Perylene-d12	264	22.005	21.983	(1.000)	180139	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.589	6.574	(0.842)	53915	0.63462	11	
$ 10 2-Fluorobiphenyl	172	9.978	9.976	(0.887)	112330	0.59184	10	
$ 12 Terphenyl-d14	244	17.372	17.361	(0.897)	80242	0.95534	17	
13 Naphthalene	128	Compound Not Detected.						
15 2-Methylnaphthalene	141	Compound Not Detected.						
17 Acenaphthylene	152	Compound Not Detected.						
18 Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d
Report Date: 03-Jun-2010 14:40

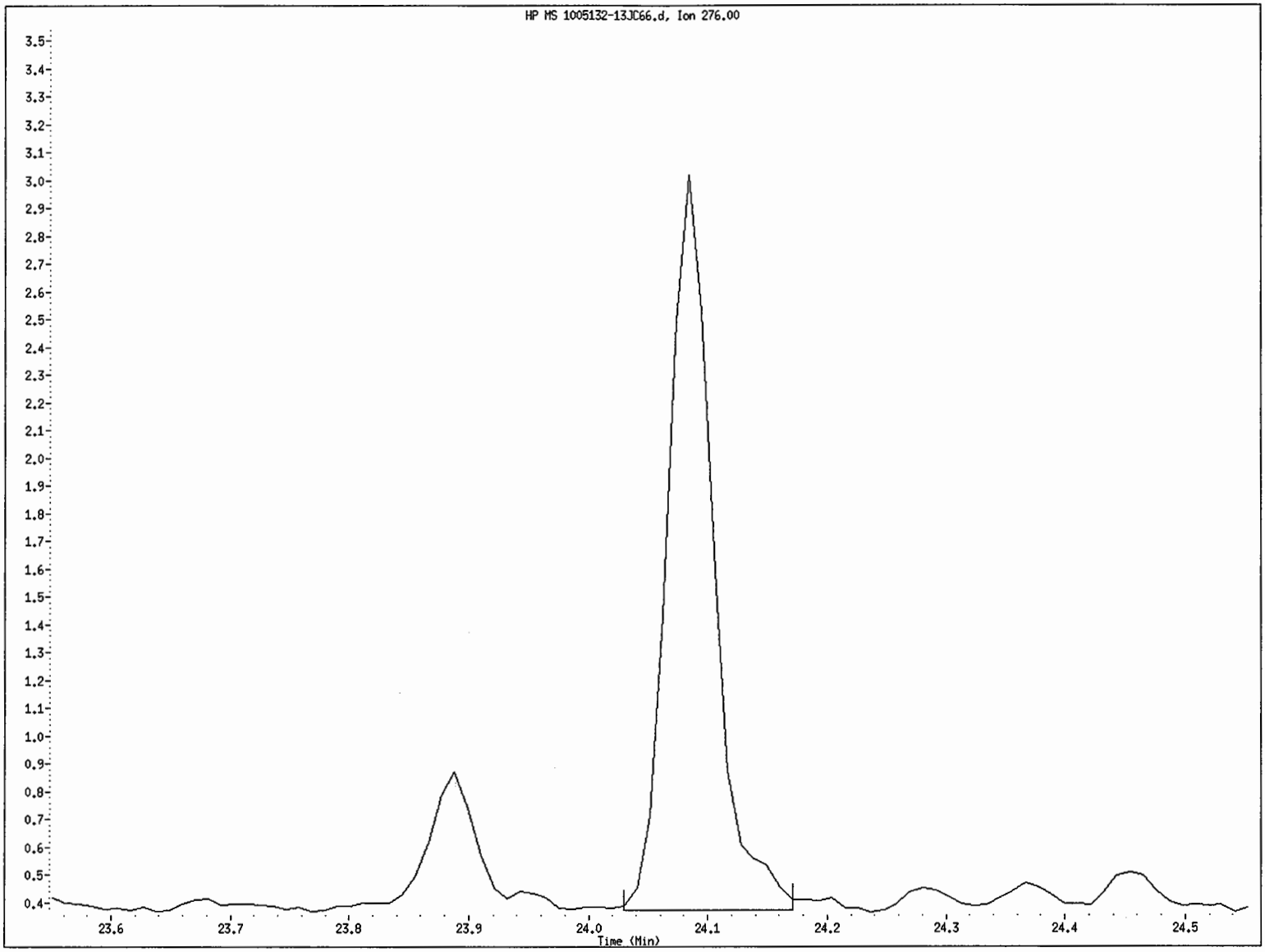
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	16.524	16.513	(0.853)	23652	0.15430	2.7(a)
28 Pyrene	202	16.955	16.930	(0.875)	22436	0.13440	2.4(a)
29 Benzo(a)anthracene	228	19.336	19.318	(0.998)	8561	0.06813	1.2(a)
30 Chrysene	228	19.414	19.396	(1.002)	15567	0.11437	2.0(a)
31 Benzo(b)fluoranthene	252	21.352	21.330	(0.970)	11974	0.10079	1.8(a)
32 Benzo(k)fluoranthene	252	21.385	21.373	(0.972)	12930	0.10114	1.8(a)
33 Benzo(a)pyrene	252	21.896	21.874	(0.995)	7806	0.07291	1.3(a)
34 Indeno(1,2,3-cd)pyrene	276	24.084	24.051	(1.094)	7076	0.07492	1.3(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.683	24.639	(1.122)	7716	0.07371	1.3(aM)

2
2
6/3/10
MH

QC Flag Legend

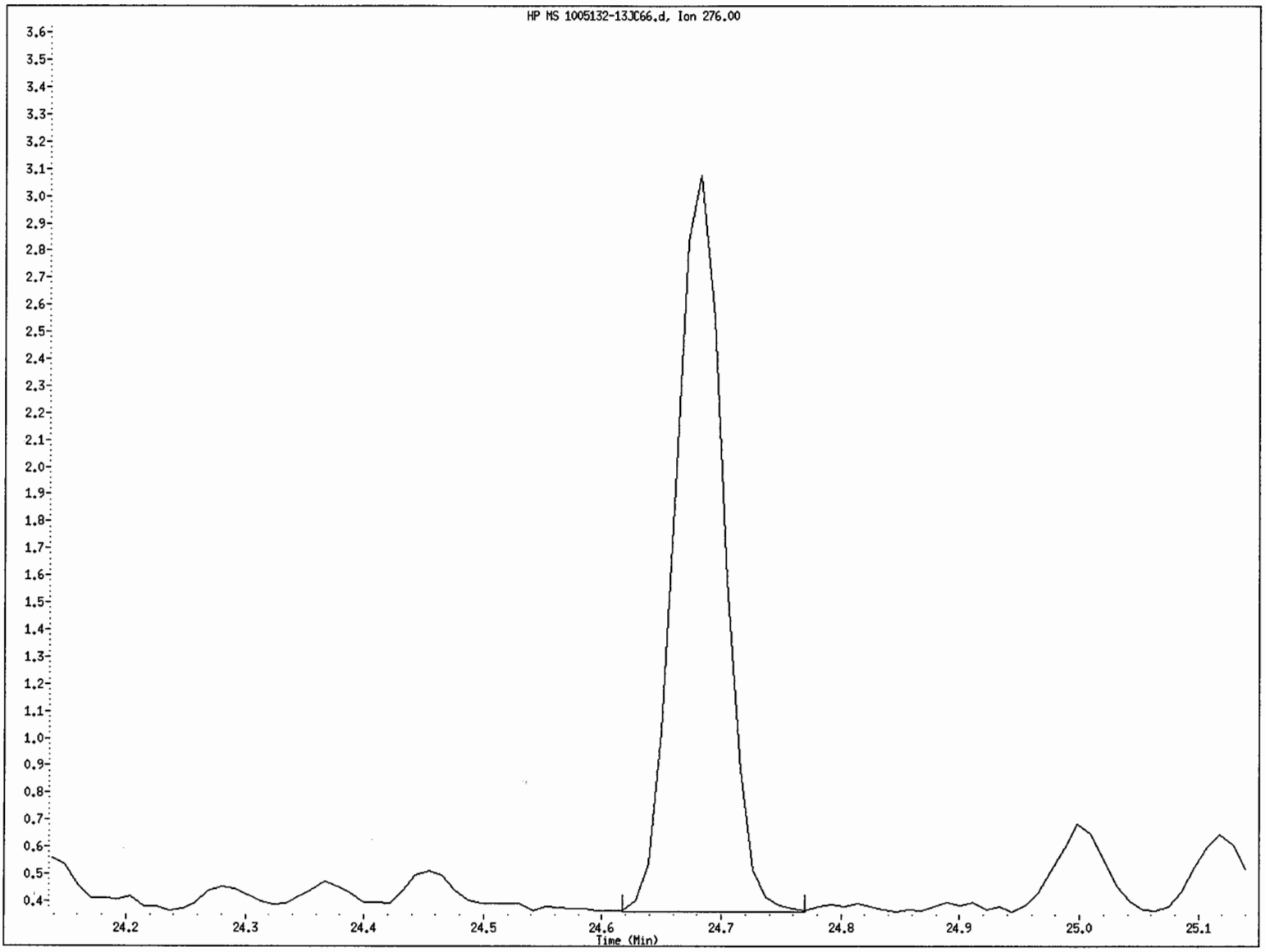
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 7076 Manually integrated



File name: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d
Client ID: SS84-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 10:39
Retention Time: 24.08
Operator ID: 2743

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 7716 Manually integrated



File name: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d
Client ID: SS84-0-1RE
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 10:39
Retention Time: 24.68
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d

Date : 27-MAY-2010 10:39

Client ID: SS84-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-13:2743

Volume Injected (uL): 2.0

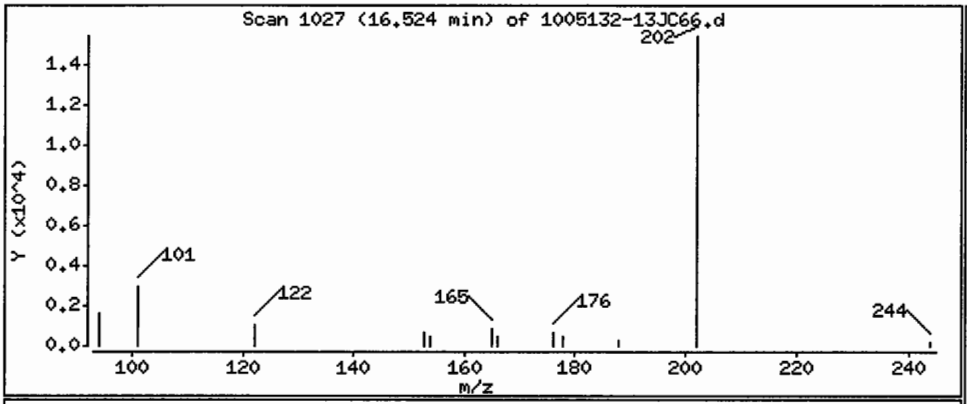
Operator: 2743

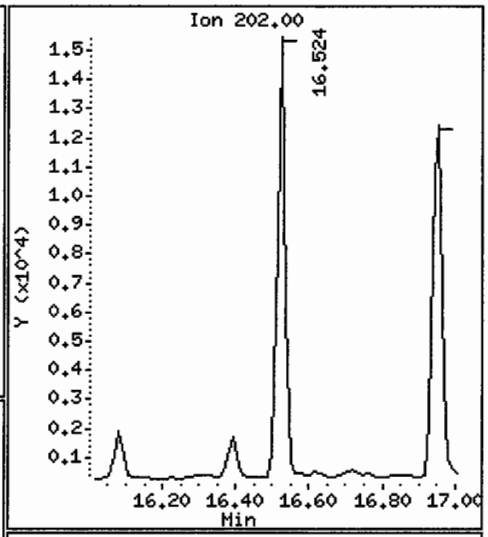
Column phase: Rtx-5MS

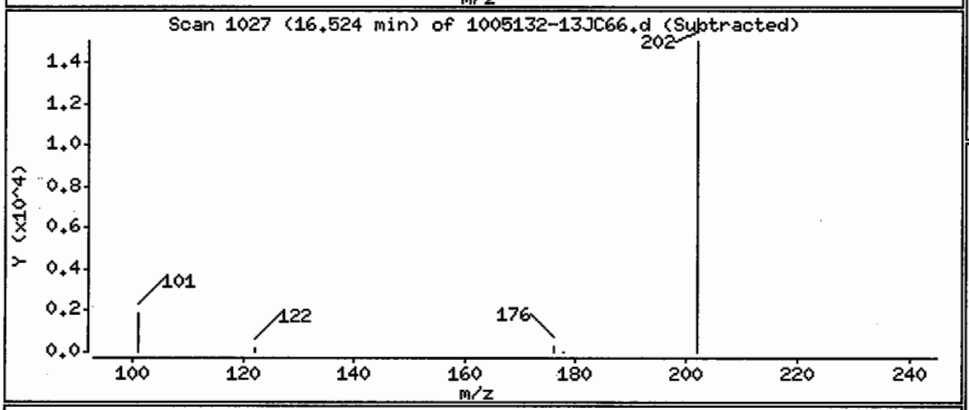
Column diameter: 0.32

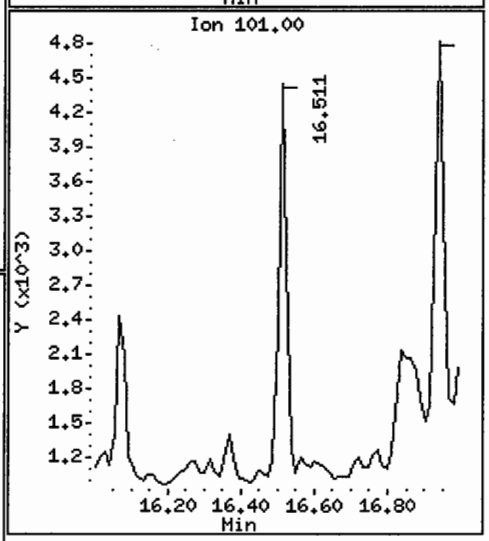
27 Fluoranthene

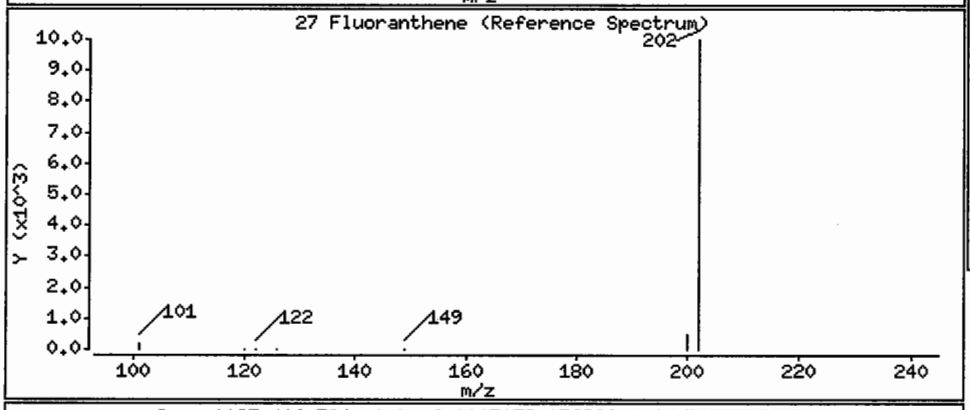
Concentration: 2.7 ug/Kg

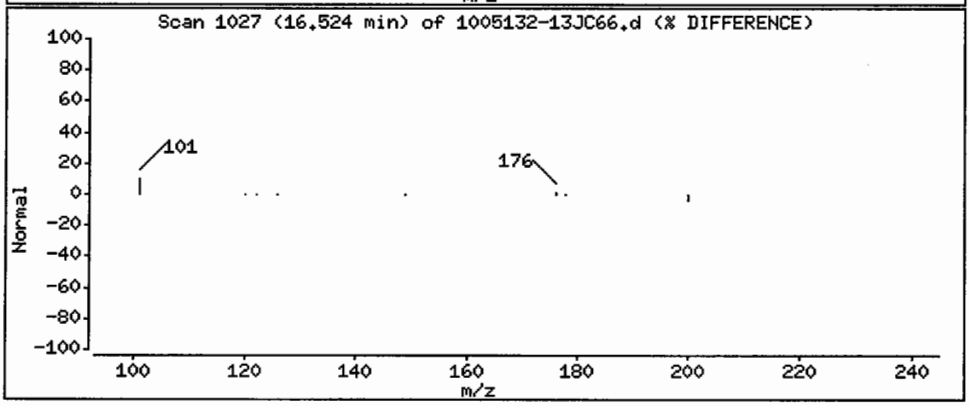












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d

Date : 27-MAY-2010 10:39

Client ID: SS84-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-13:2743

Volume Injected (uL): 2.0

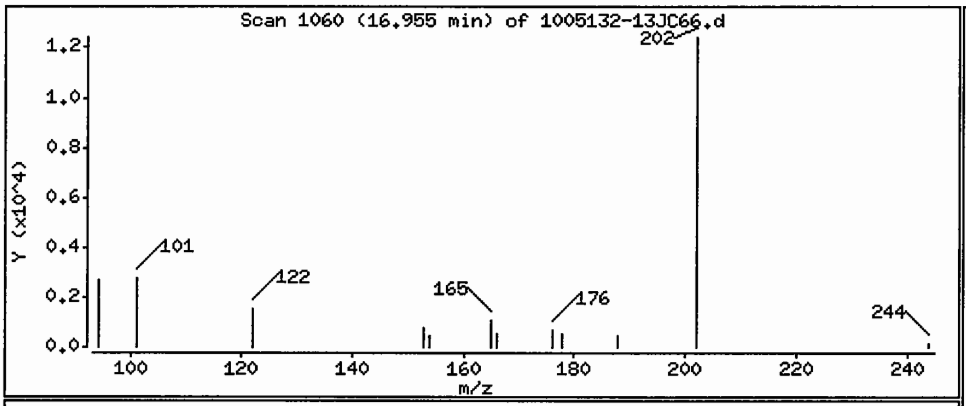
Operator: 2743

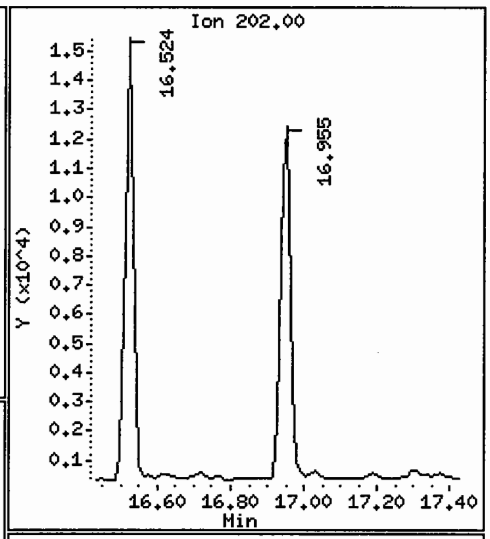
Column phase: Rtx-5MS

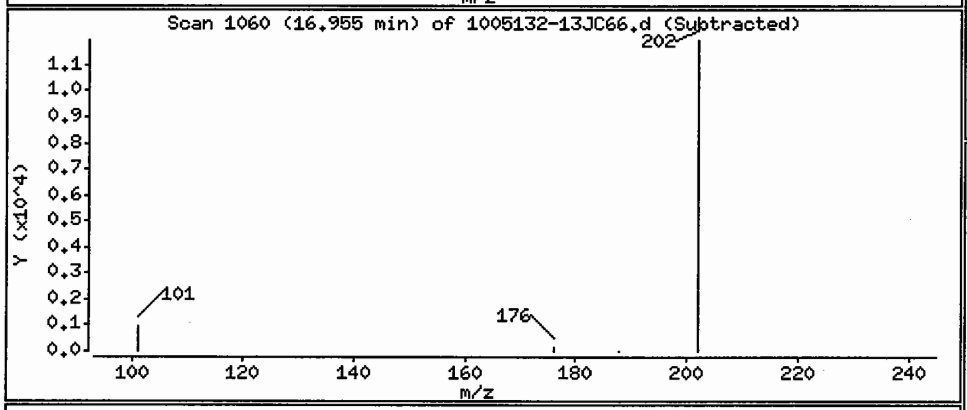
Column diameter: 0.32

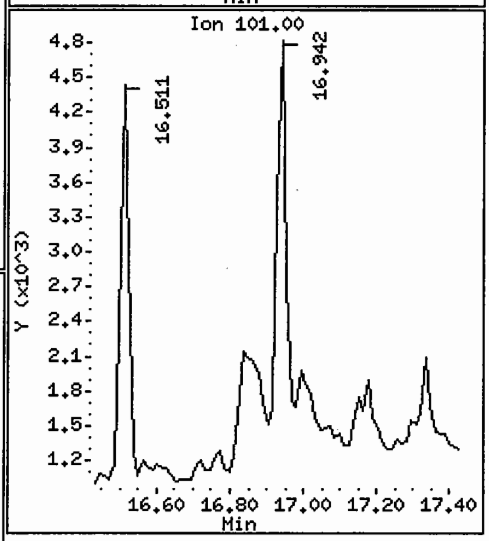
28 Pyrene

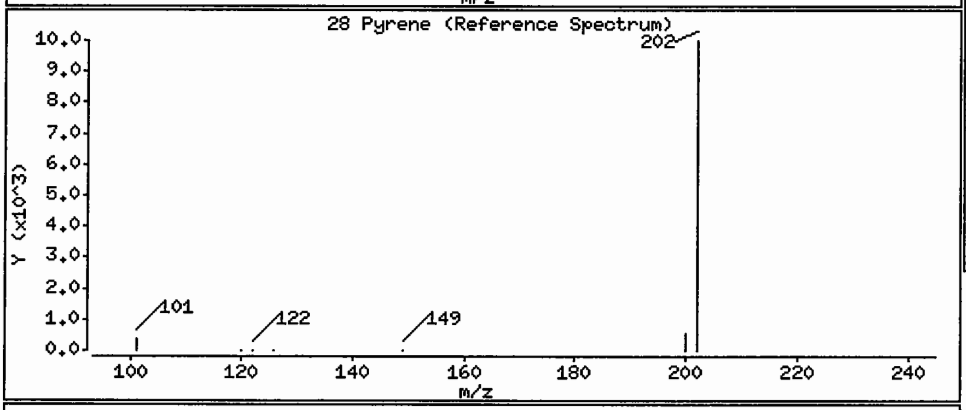
Concentration: 2.4 ug/Kg

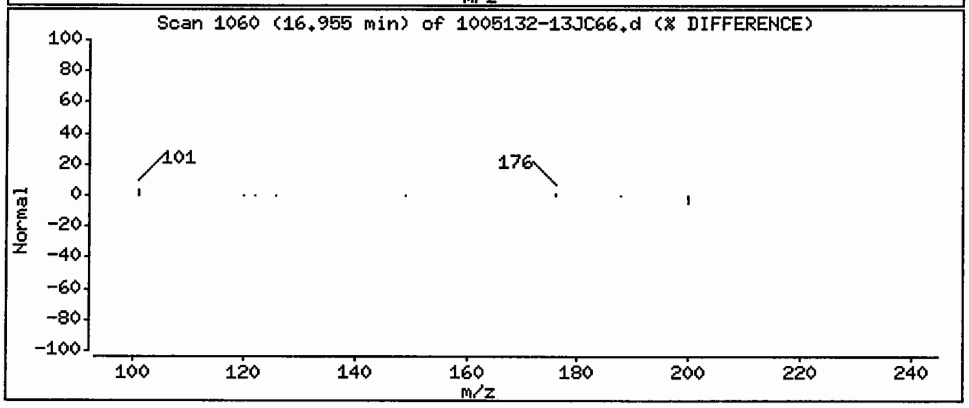












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d

Date : 27-MAY-2010 10:39

Client ID: SS84-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-13:2743

Volume Injected (uL): 2.0

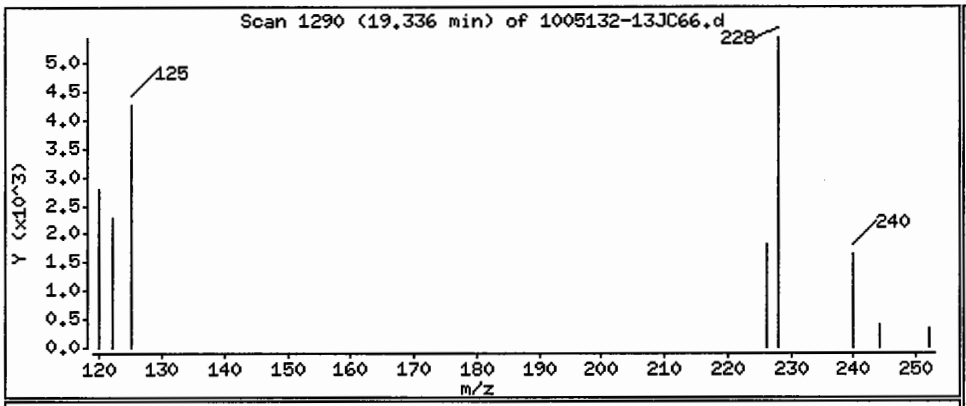
Operator: 2743

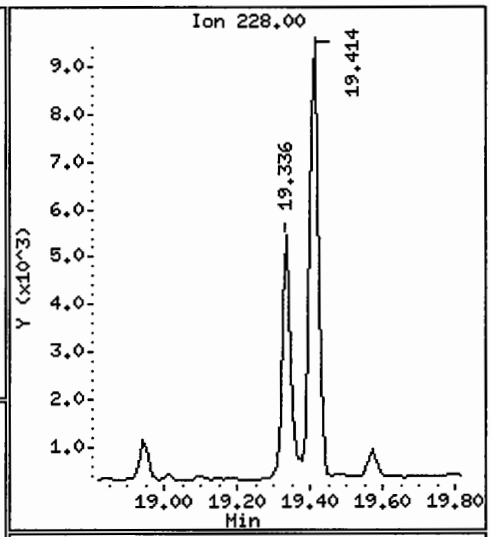
Column phase: Rtx-5MS

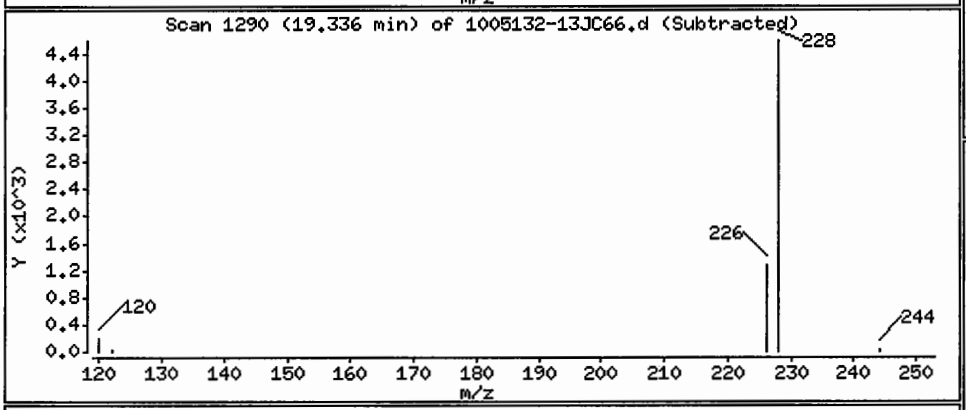
Column diameter: 0.32

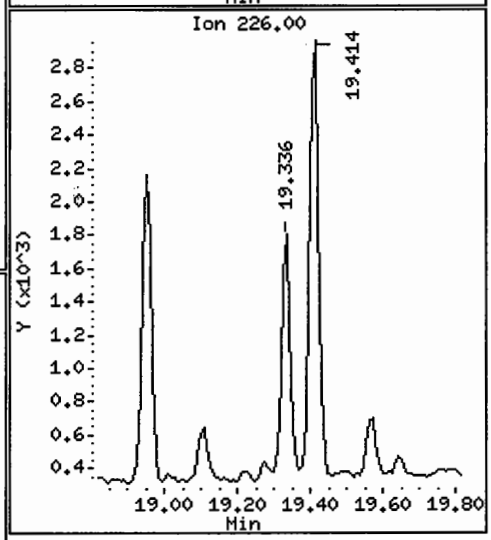
29 Benzo(a)anthracene

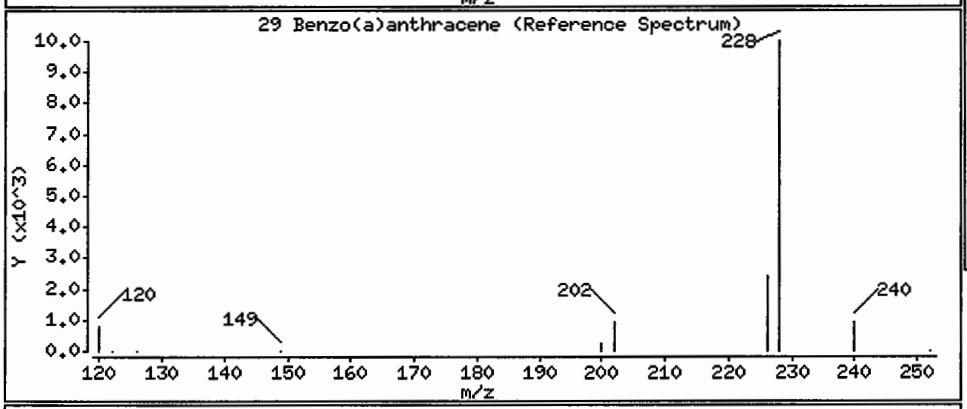
Concentration: 1.2 ug/Kg

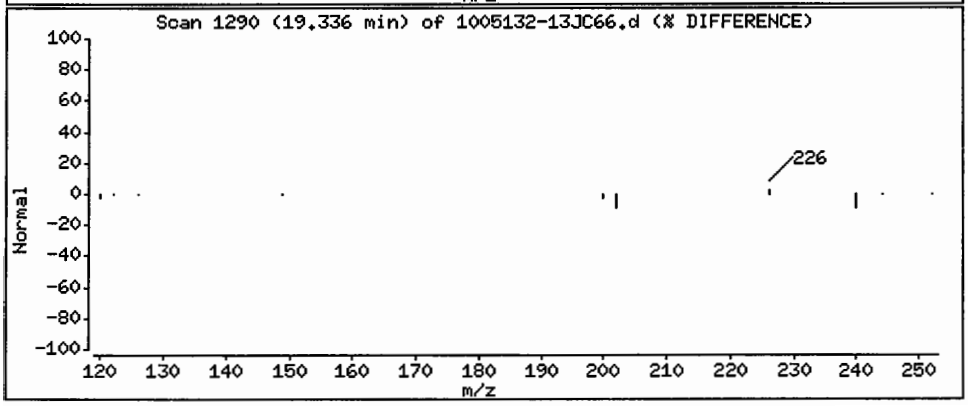












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d

Date : 27-MAY-2010 10:39

Client ID: SS84-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-13:2743

Volume Injected (uL): 2.0

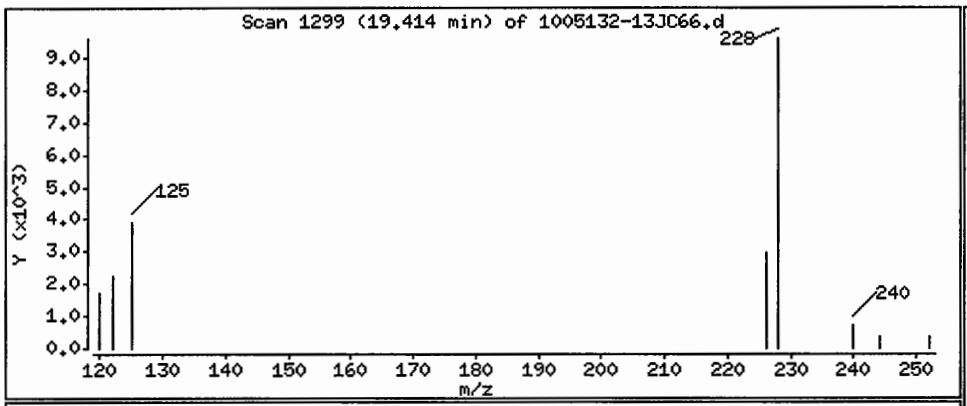
Operator: 2743

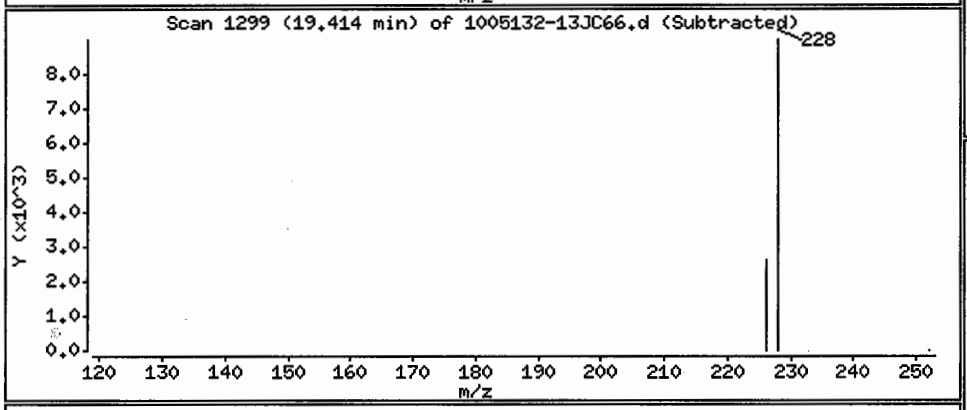
Column phase: Rtx-5MS

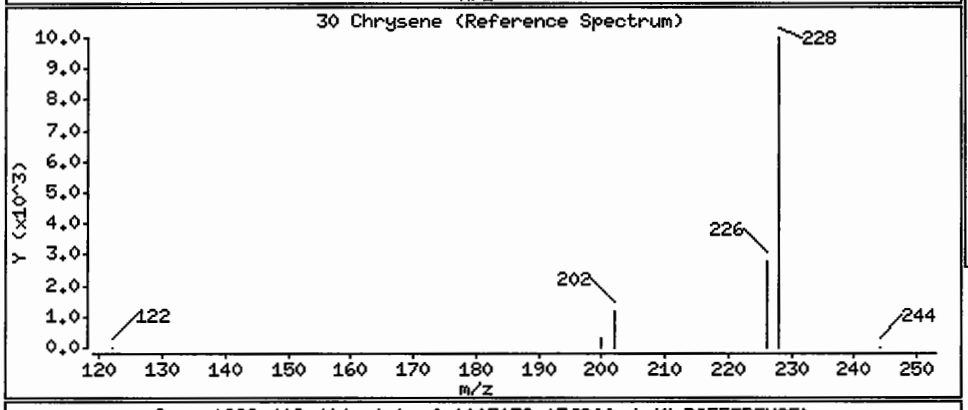
Column diameter: 0.32

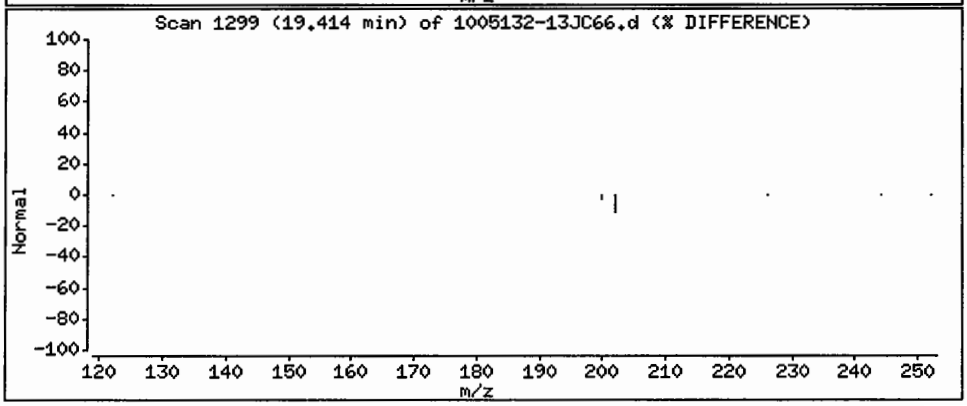
30 Chrysene

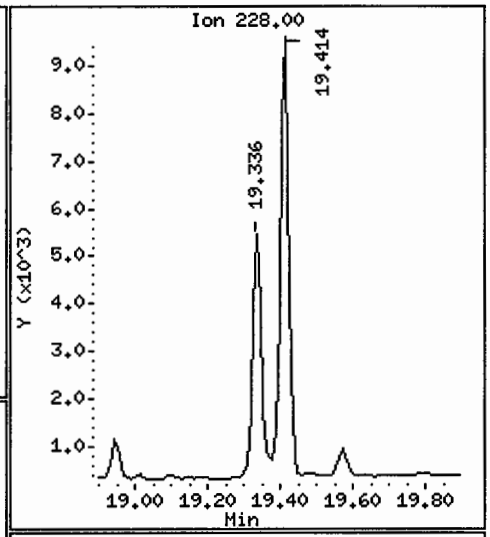
Concentration: 2.0 ug/Kg

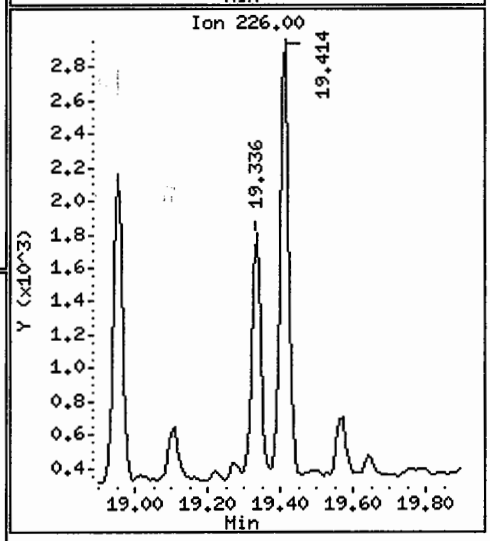












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d

Date : 27-MAY-2010 10:39

Client ID: SS84-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-13:2743

Volume Injected (uL): 2.0

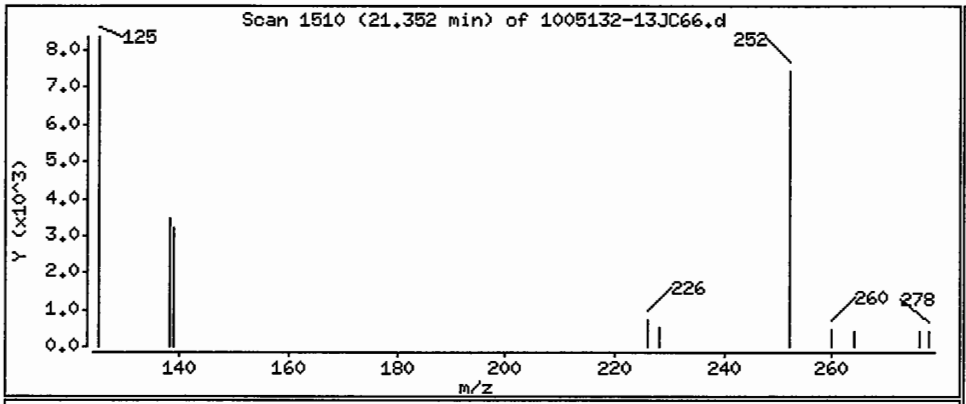
Operator: 2743

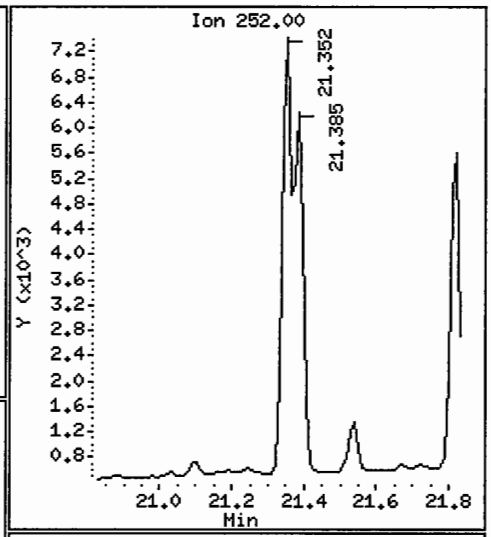
Column phase: Rtx-5MS

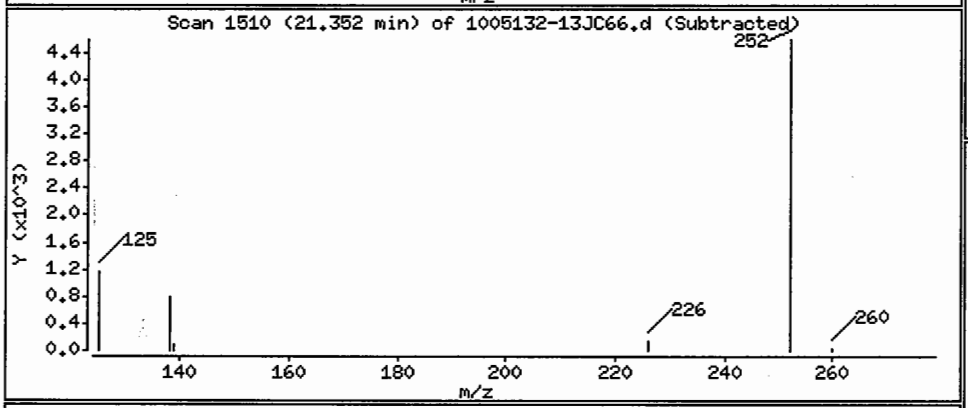
Column diameter: 0.32

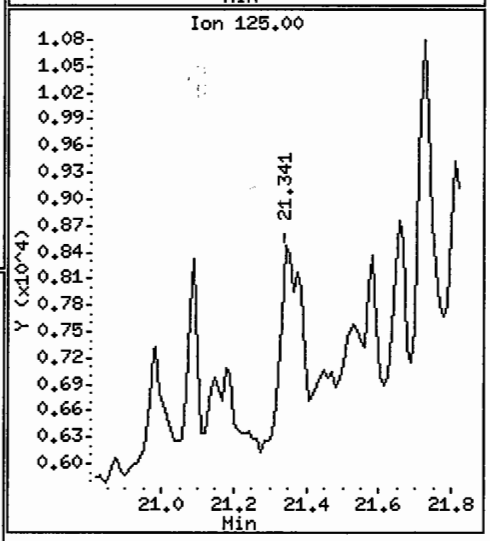
31 Benzo(b)fluoranthene

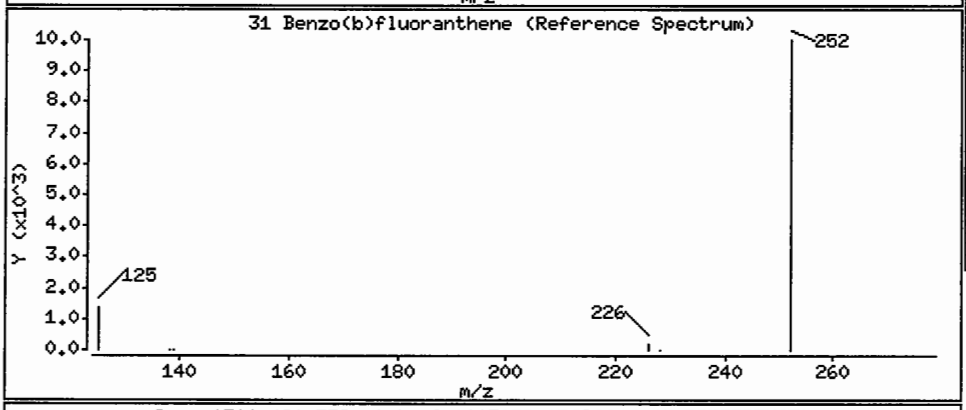
Concentration: 1.8 ug/Kg

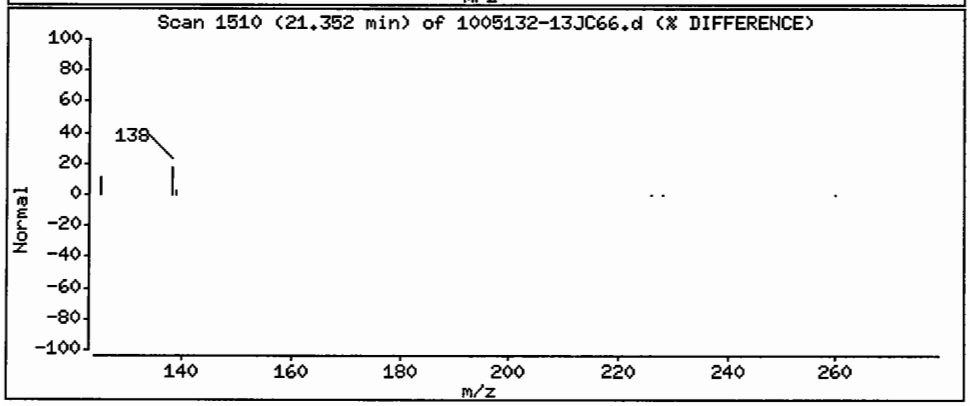












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d

Date : 27-MAY-2010 10:39

Client ID: SS84-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-13:2743

Volume Injected (uL): 2.0

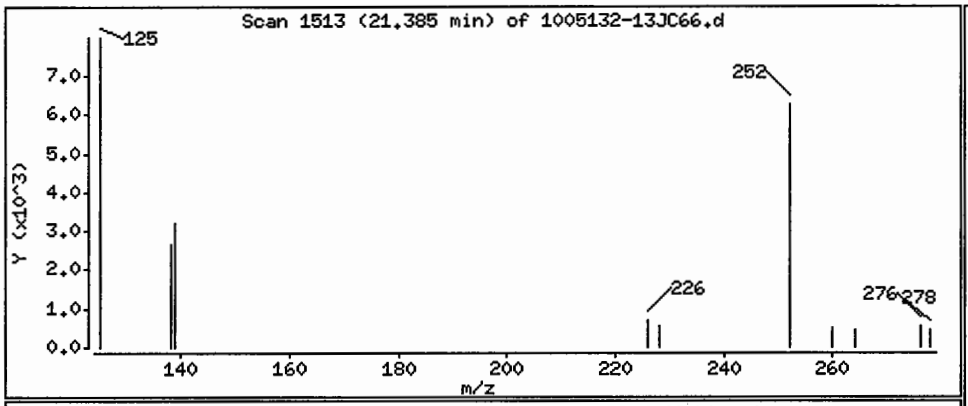
Operator: 2743

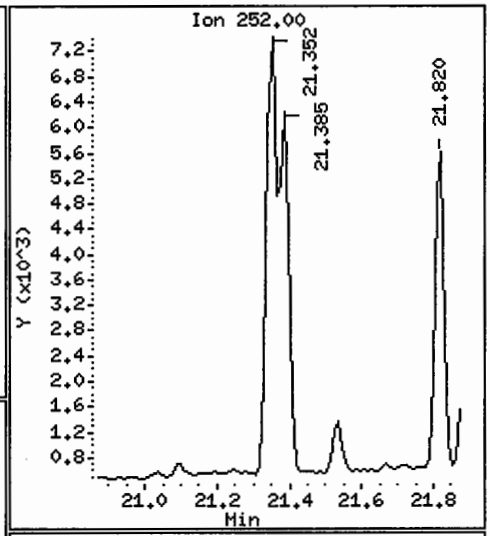
Column phase: Rtx-5MS

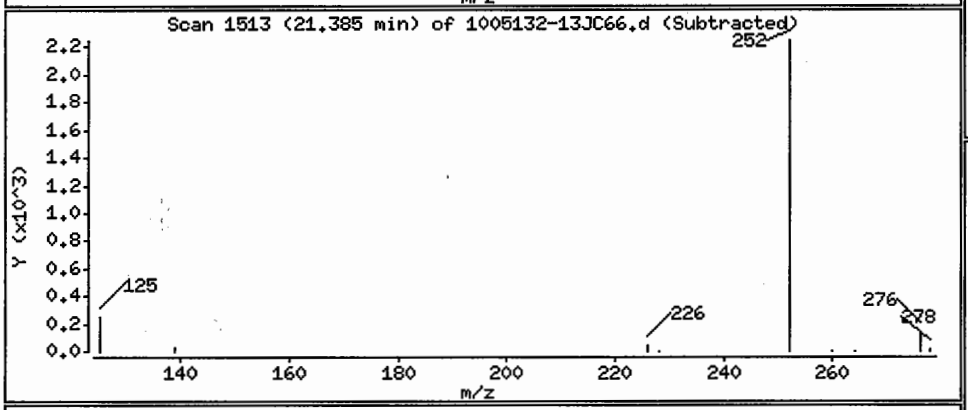
Column diameter: 0.32

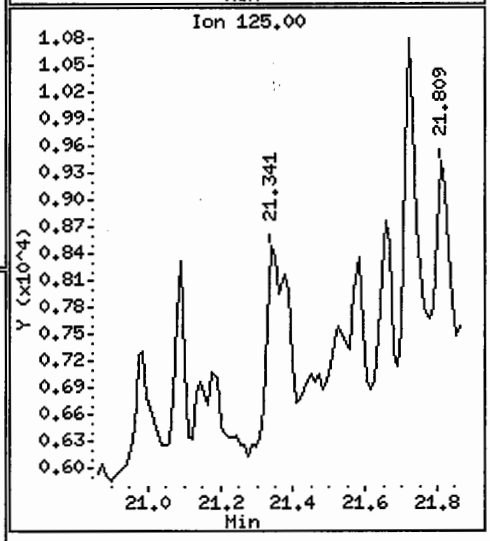
32 Benzo(k)fluoranthene

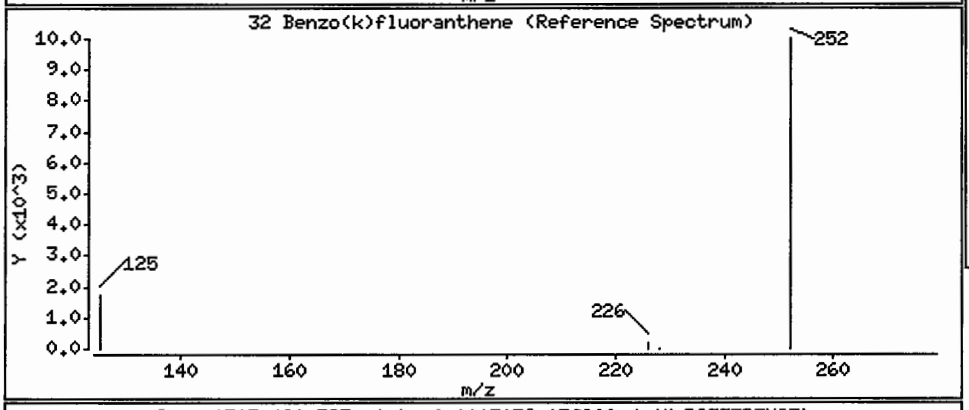
Concentration: 1.8 ug/Kg

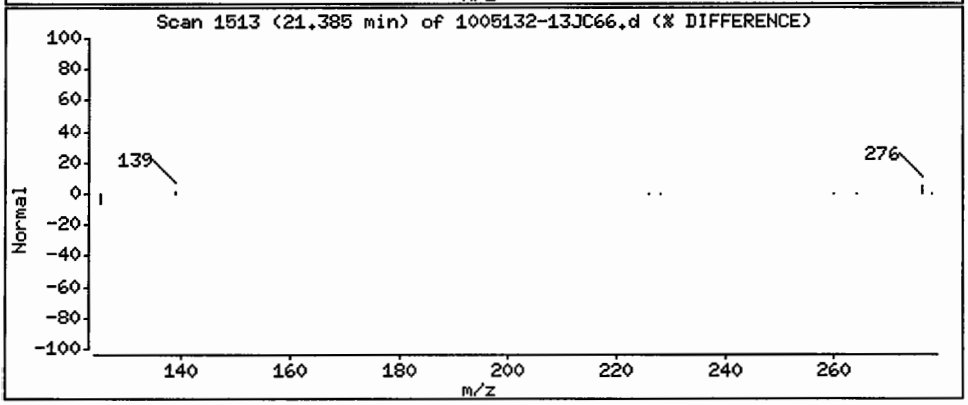












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d

Date : 27-MAY-2010 10:39

Client ID: SS84-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-13:2743

Volume Injected (uL): 2.0

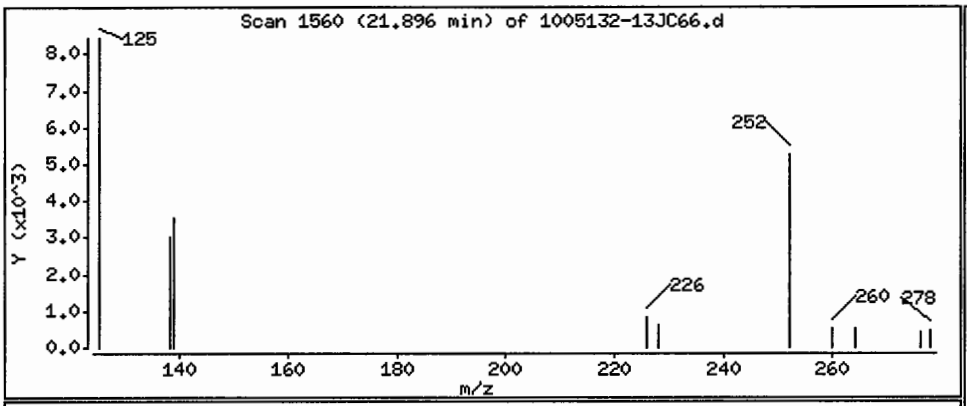
Operator: 2743

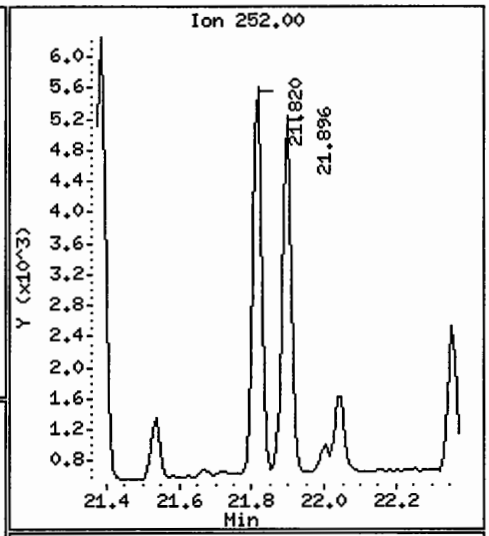
Column phase: Rtx-5MS

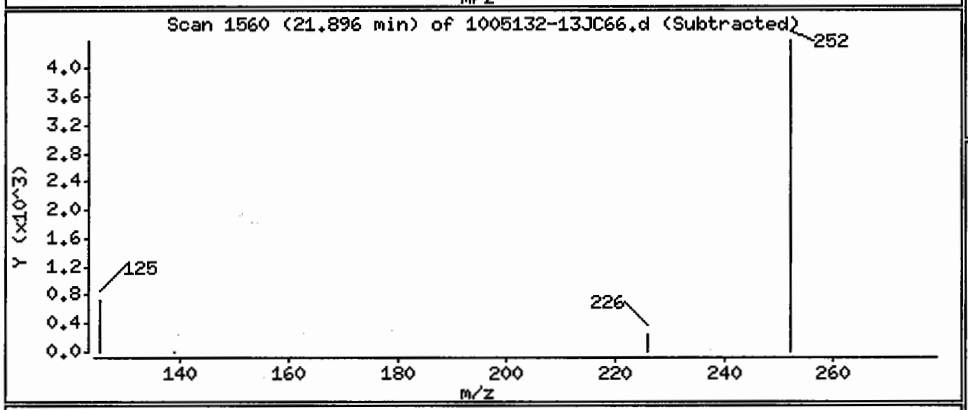
Column diameter: 0.32

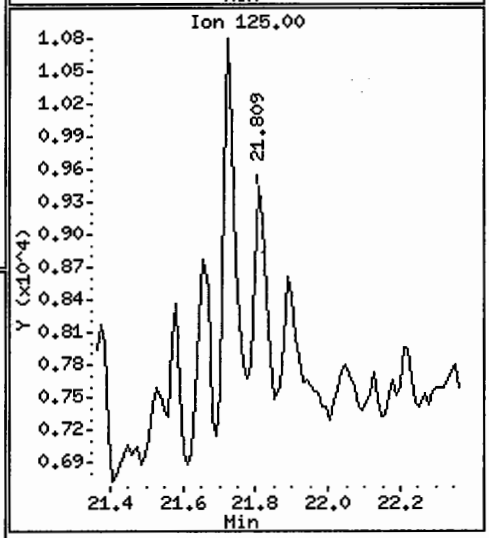
33 Benzo(a)pyrene

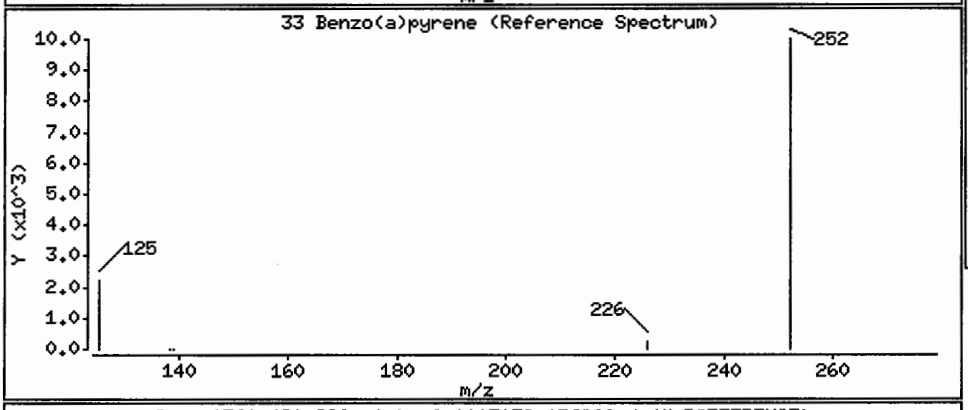
Concentration: 1.3 ug/Kg

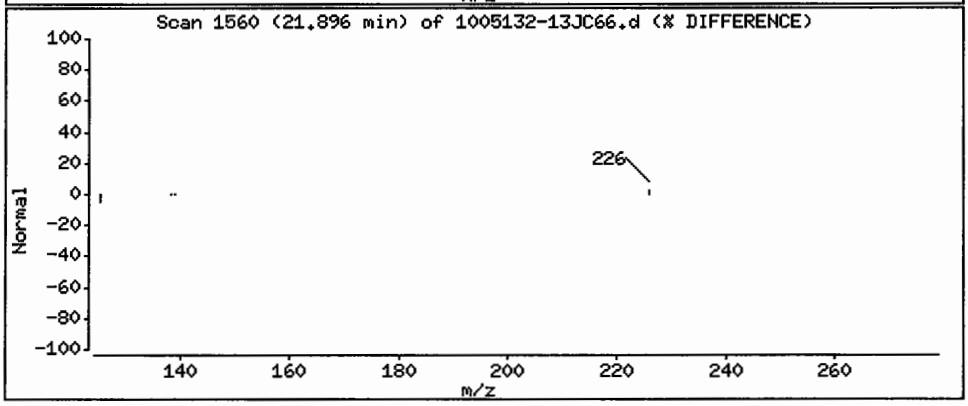












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d

Date : 27-MAY-2010 10:39

Client ID: SS84-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-13:2743

Volume Injected (uL): 2.0

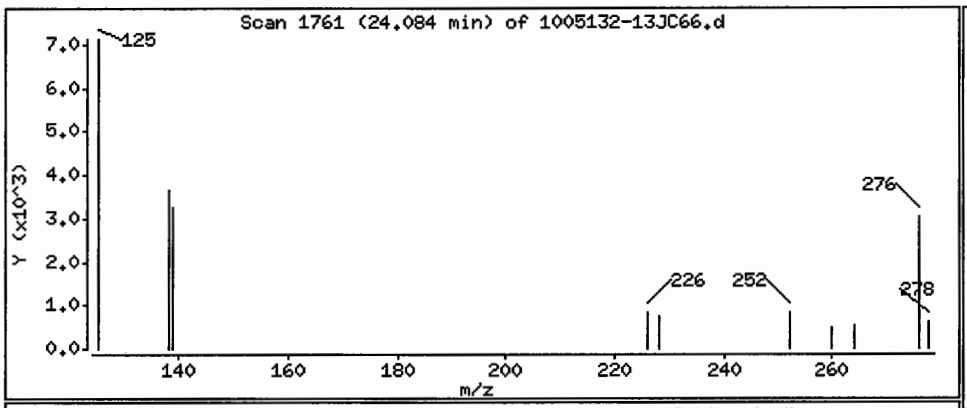
Operator: 2743

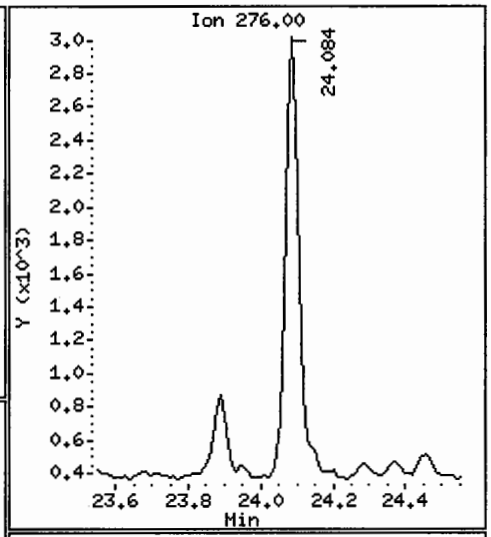
Column phase: Rtx-5MS

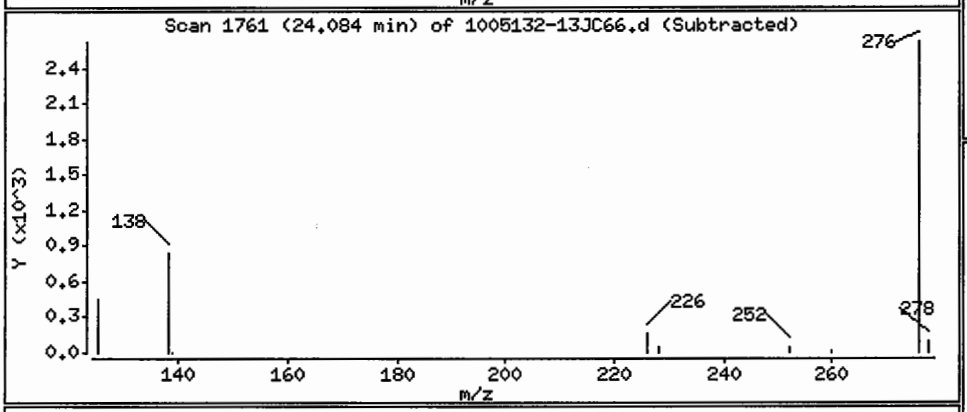
Column diameter: 0.32

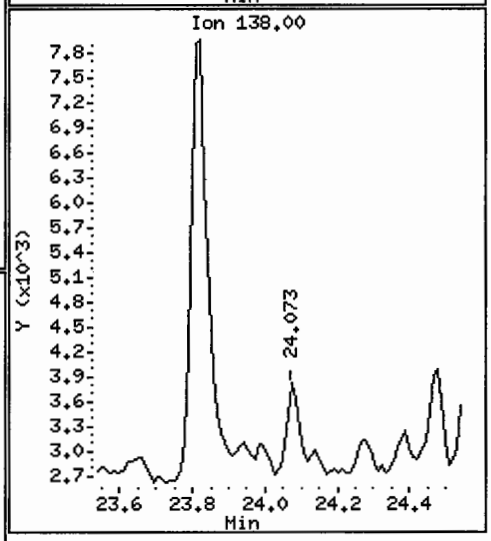
34 Indeno(1,2,3-cd)pyrene

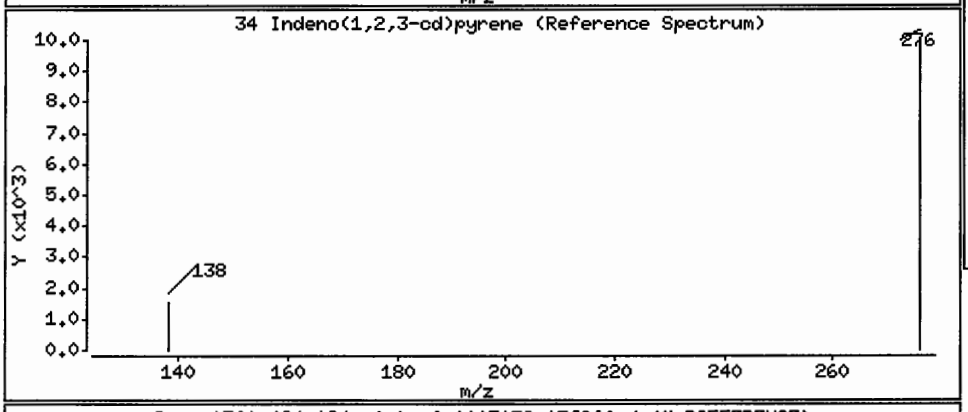
Concentration: 1.3 ug/Kg

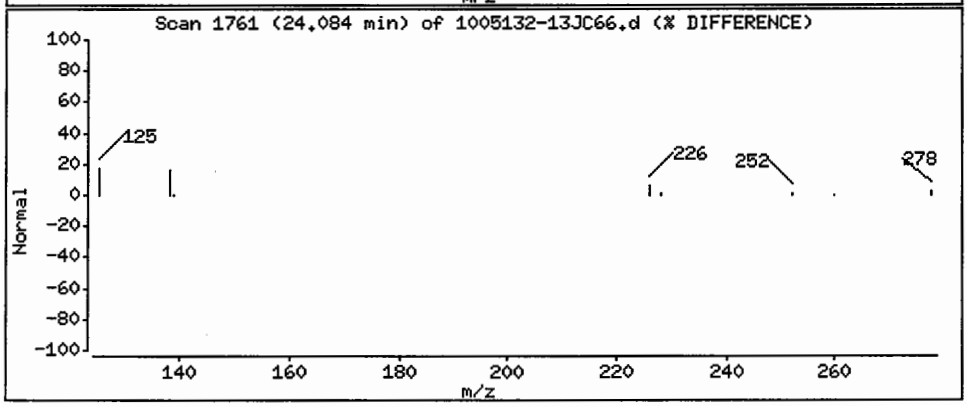












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d

Date : 27-MAY-2010 10:39

Client ID: SS84-0-1RE

Instrument: 5972hp66.i

Sample Info: 1005132-13:2743

Volume Injected (uL): 2.0

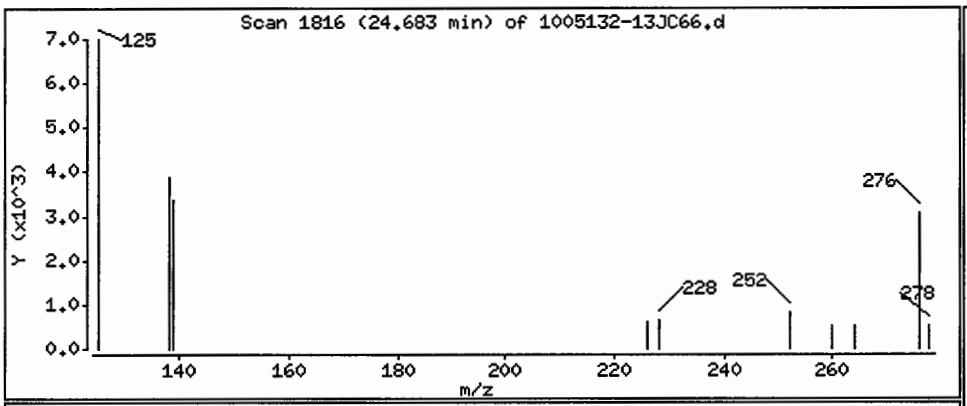
Operator: 2743

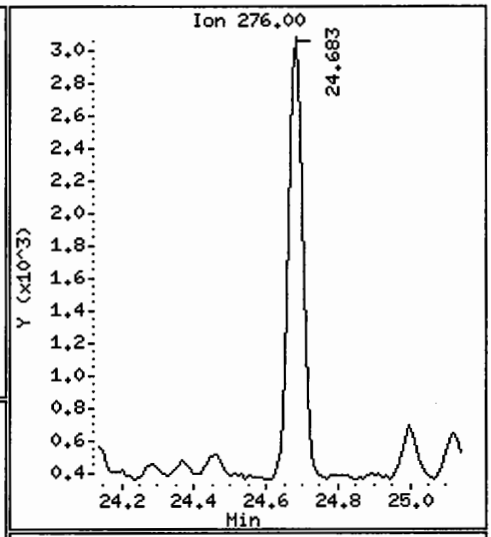
Column phase: Rtx-5MS

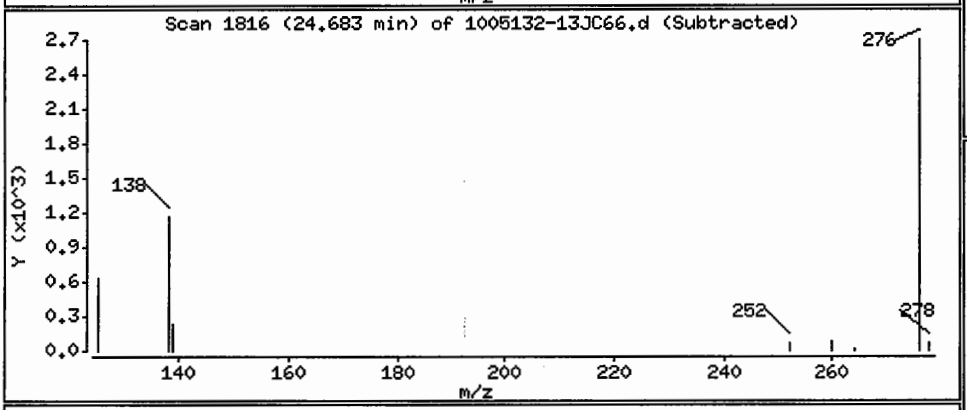
Column diameter: 0.32

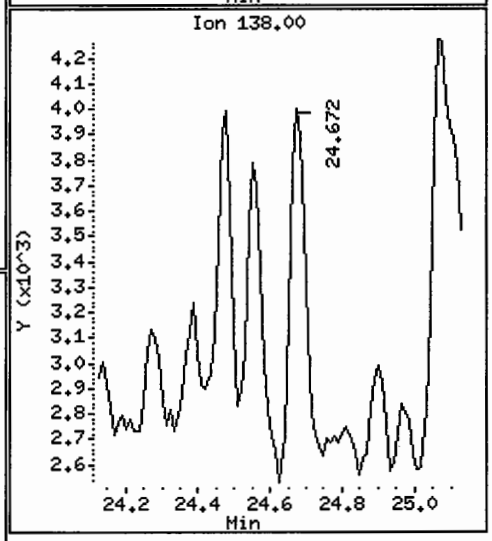
36 Benzo(g,h,i)perylene

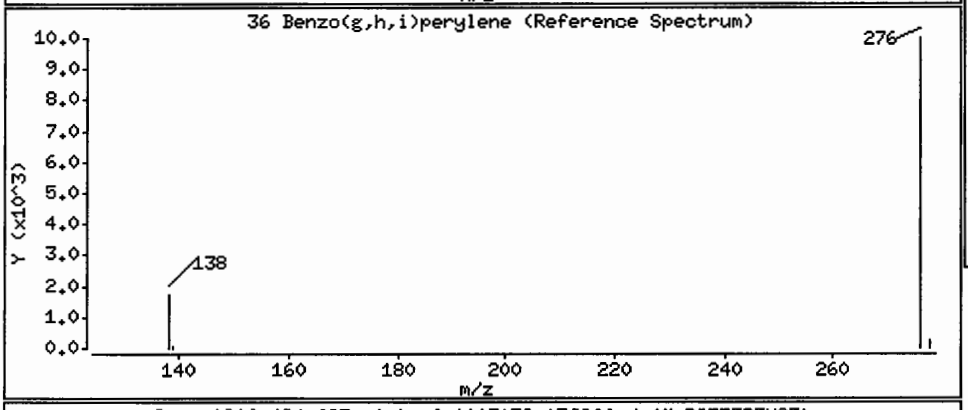
Concentration: 1.3 ug/Kg

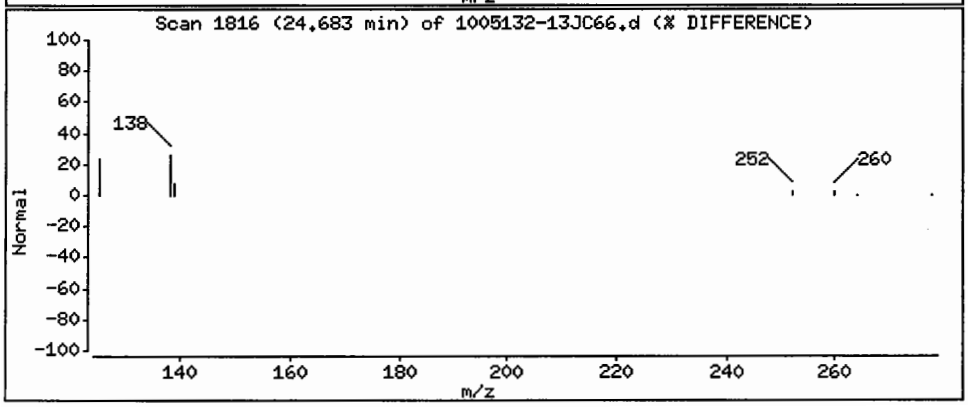






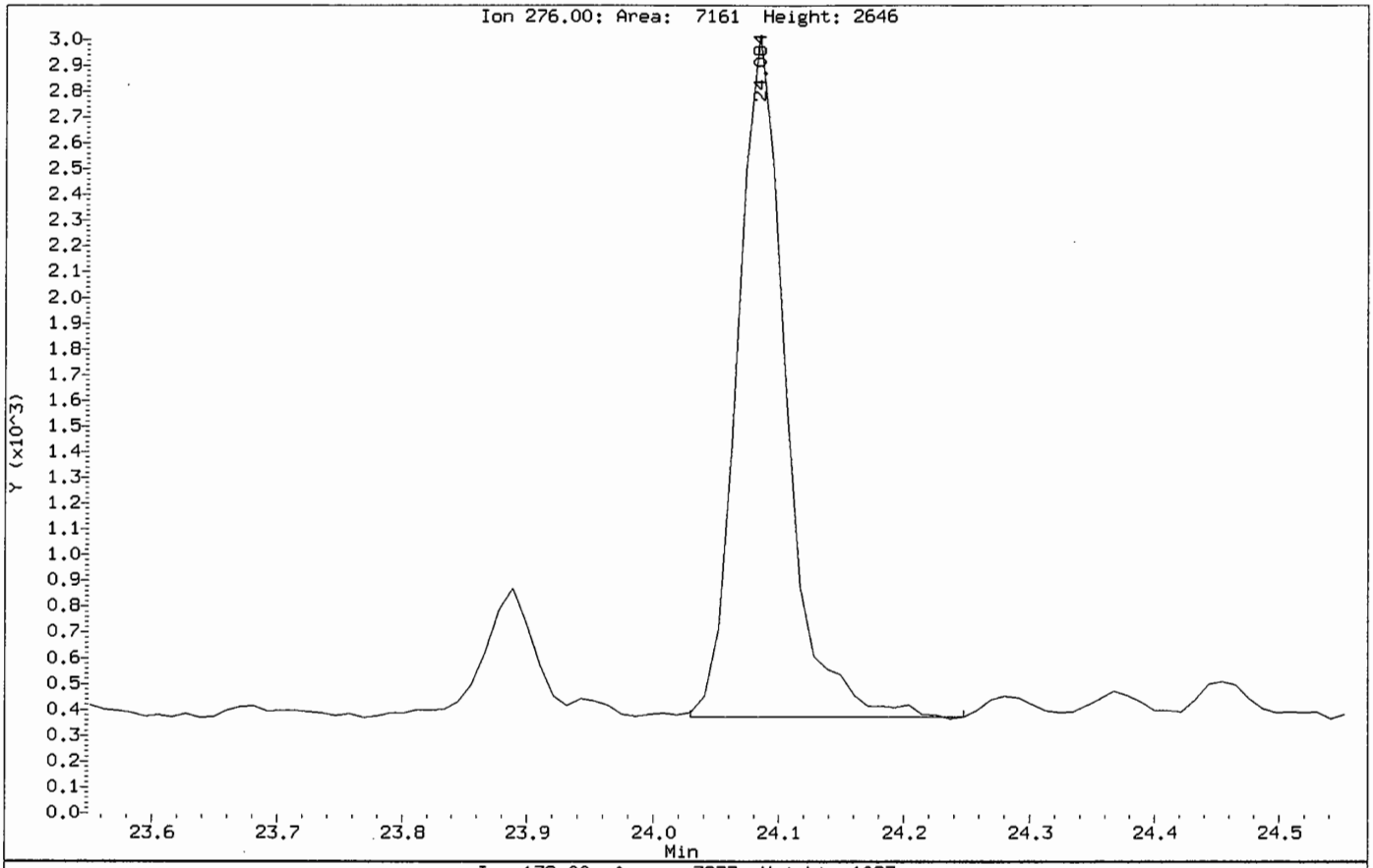


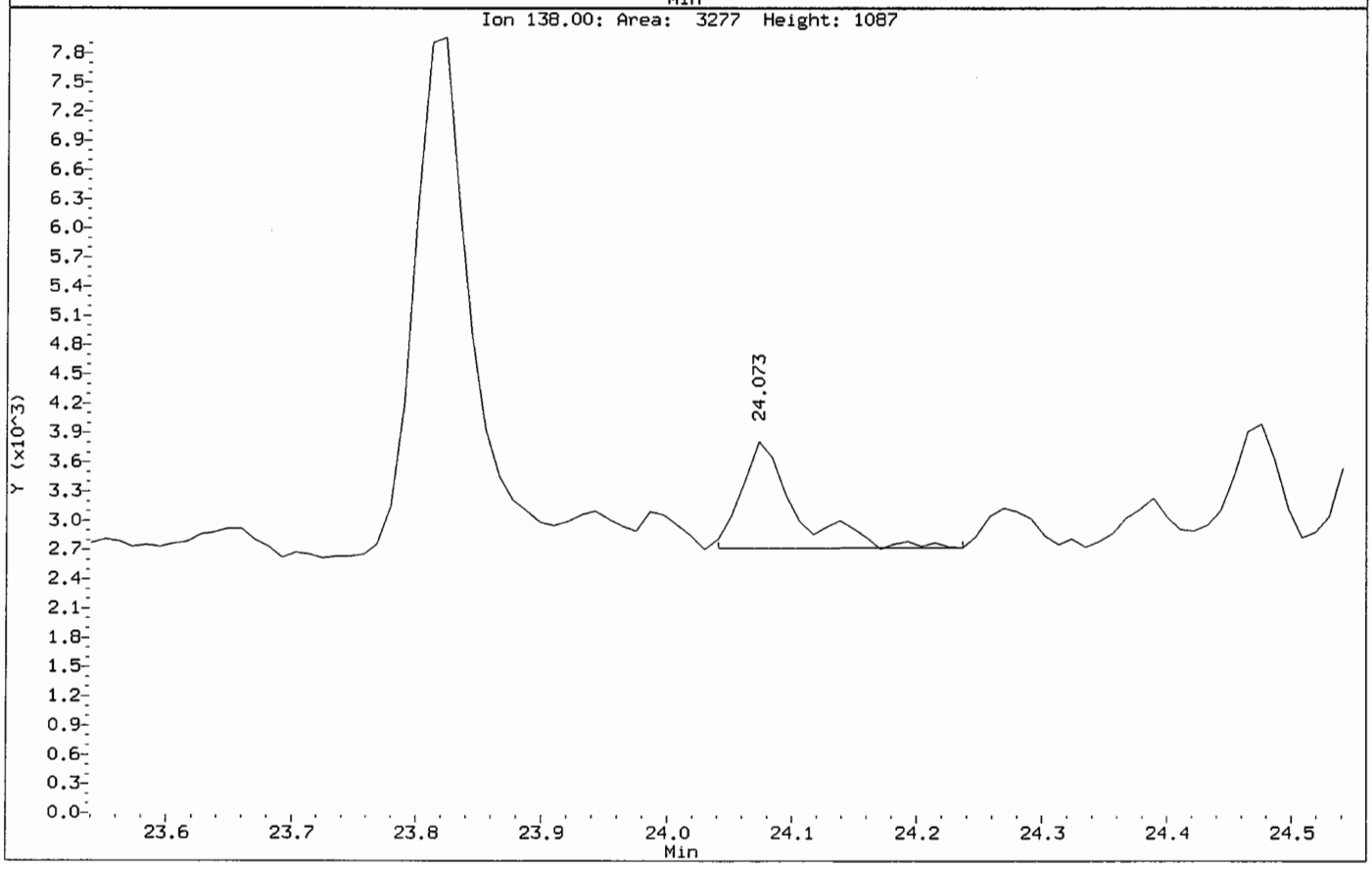




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d
Injection Date: 27-MAY-2010 10:39
Instrument: 5972hp66.i
Client Sample ID: SS84-0-1RE

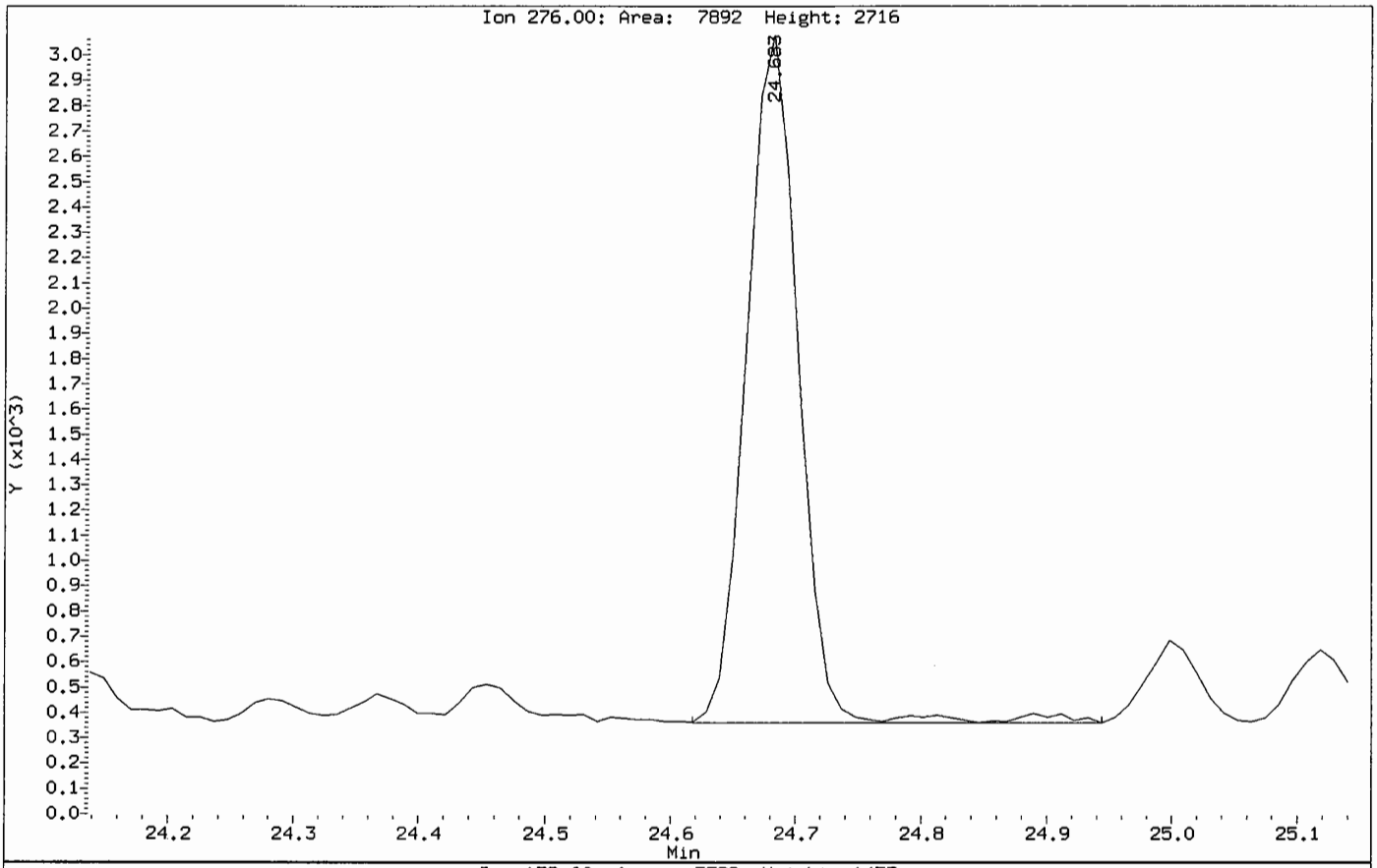
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5

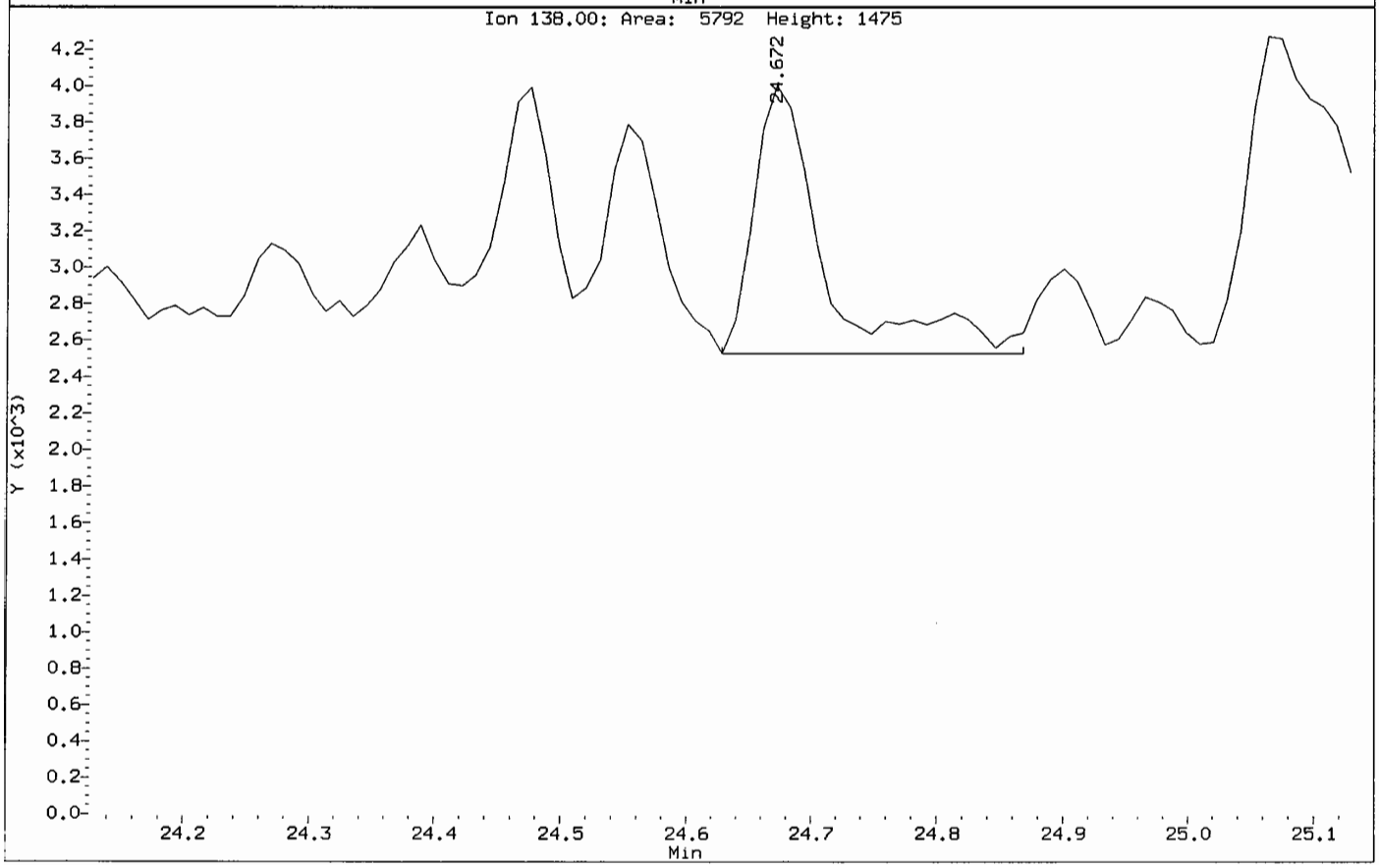




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-13JC66.d
Injection Date: 27-MAY-2010 10:39
Instrument: 5972hp66.i
Client Sample ID: SS84-0-1RE

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SS86-0-1

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 1005132-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 1005132-11JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 13 decanted: (Y/N) N Date Extracted:05/20/10

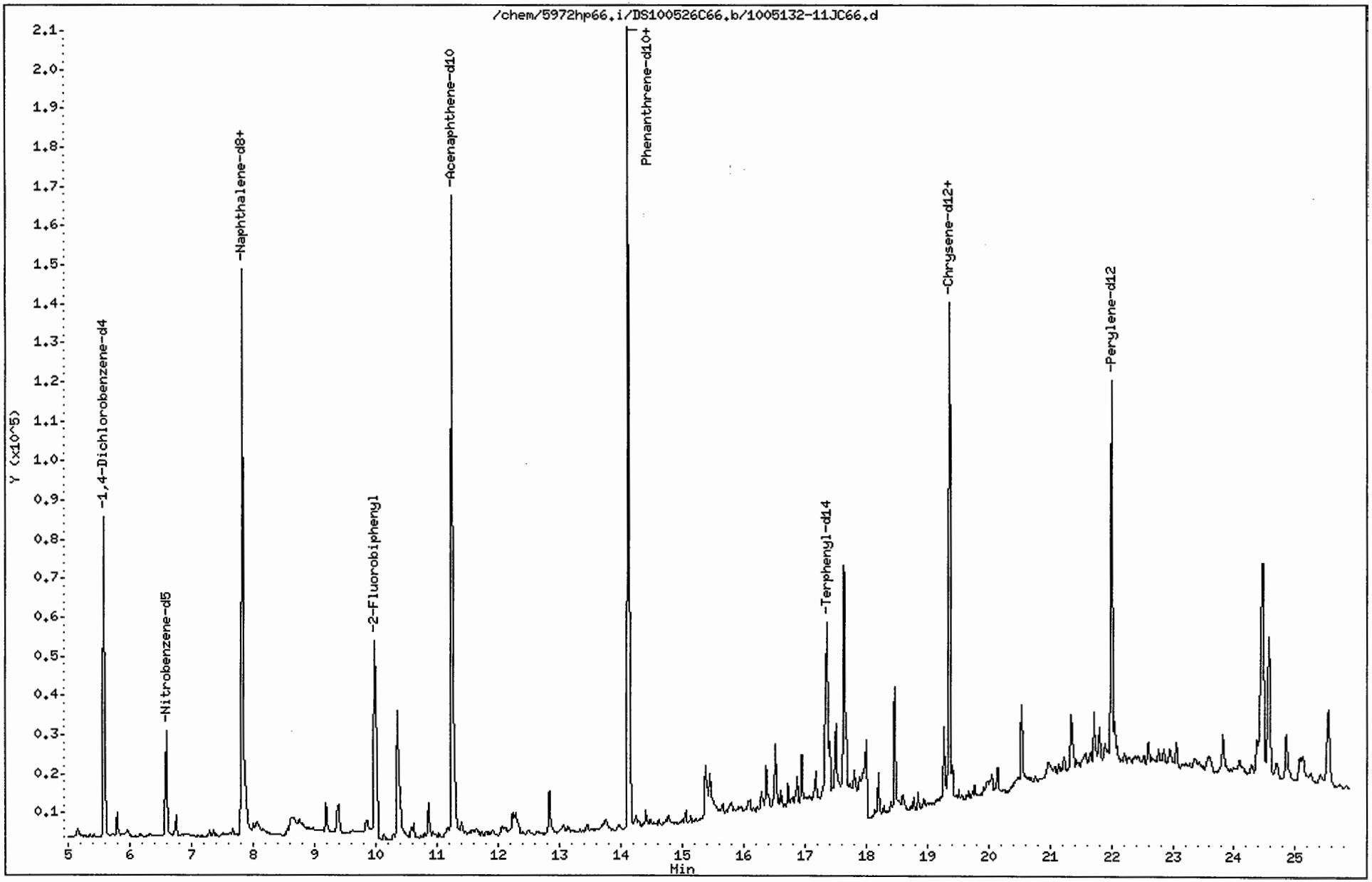
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/27/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	1.6	J
91-57-6	2-Methylnaphthalene	1.2	J
208-96-8	Acenaphthylene	9.5	U
83-32-9	Acenaphthene	9.5	U
86-73-7	Fluorene	9.5	U
85-01-8	Phenanthrene	1.7	J
120-12-7	Anthracene	9.5	U
206-44-0	Fluoranthene	3.7	J
129-00-0	Pyrene	3.0	J
56-55-3	Benzo(a)anthracene	1.2	J
218-01-9	Chrysene	2.1	J
205-99-2	Benzo(b)fluoranthene	2.5	J
207-08-9	Benzo(k)fluoranthene	1.6	J
50-32-8	Benzo(a)pyrene	1.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	1.2	J
53-70-3	Dibenzo(a,h)anthracene	9.5	U
191-24-2	Benzo(g,h,i)perylene	1.1	J

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Date : 27-MAY-2010 09:31
Client ID: SS86-0-1
Instrument: 5972hp66.i
Sample Info: 1005132-11:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Report Date: 03-Jun-2010 14:40

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Lab Smp Id: 1005132-11 Client Smp ID: SS86-0-1
Inj Date : 27-MAY-2010 09:31
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 1005132-11:2743
Misc Info : SS86-0-1
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526C66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 13:52 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	13.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.587	5.570	(1.000)	56423	2.00000	(a)
* 2 Naphthalene-d8	136	7.829	7.812	(1.000)	245319	2.00000	(a)
* 3 Acenaphthene-d10	164	11.243	11.243	(1.000)	137802	2.00000	(a)
* 4 Phenanthrene-d10	188	14.127	14.114	(1.000)	284131	2.00000	(a)
* 5 Chrysene-d12	240	19.370	19.353	(1.000)	167848	2.00000	(a)
* 6 Perylene-d12	264	22.004	21.983	(1.000)	133257	2.00000	(a)
$ 9 Nitrobenzene-d5	82	6.590	6.574	(0.842)	31932	0.58496	11
$ 10 2-Fluorobiphenyl	172	9.979	9.976	(0.888)	75120	0.52240	10
$ 12 Terphenyl-d14	244	17.373	17.361	(0.897)	55572	0.91122	17
13 Naphthalene	128	7.855	7.851	(1.003)	12727	0.08387	1.6(a)
15 2-Methylnaphthalene	141	9.184	9.181	(0.817)	6389	0.06476	1.2(a)
17 Acenaphthylene	152	Compound Not Detected.					
18 Acenaphthene	154	Compound Not Detected.					

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Report Date: 03-Jun-2010 14:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	14.166	14.153	(1.003)	15722	0.08874	1.7(a)
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	16.526	16.513	(0.853)	21341	0.19175	3.7(a)
28 Pyrene	202	16.956	16.930	(0.875)	18721	0.15446	3.0(aM)
29 Benzo(a)anthracene	228	19.335	19.318	(0.998)	5741	0.06292	1.2(a)
30 Chrysene	228	19.414	19.396	(1.002)	10882	0.11011	2.1(a)
31 Benzo(b)fluoranthene	252	21.351	21.330	(0.970)	11328	0.12890	2.5(a)
32 Benzo(k)fluoranthene	252	21.384	21.373	(0.972)	8124	0.08590	1.6(a)
33 Benzo(a)pyrene	252	21.896	21.874	(0.995)	4904	0.06192	1.2(a)
34 Indeno(1,2,3-cd)pyrene	276	24.094	24.051	(1.095)	4497	0.06436	1.2(aM)
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	24.704	24.639	(1.123)	4595	0.05934	1.1(aM)

2

2

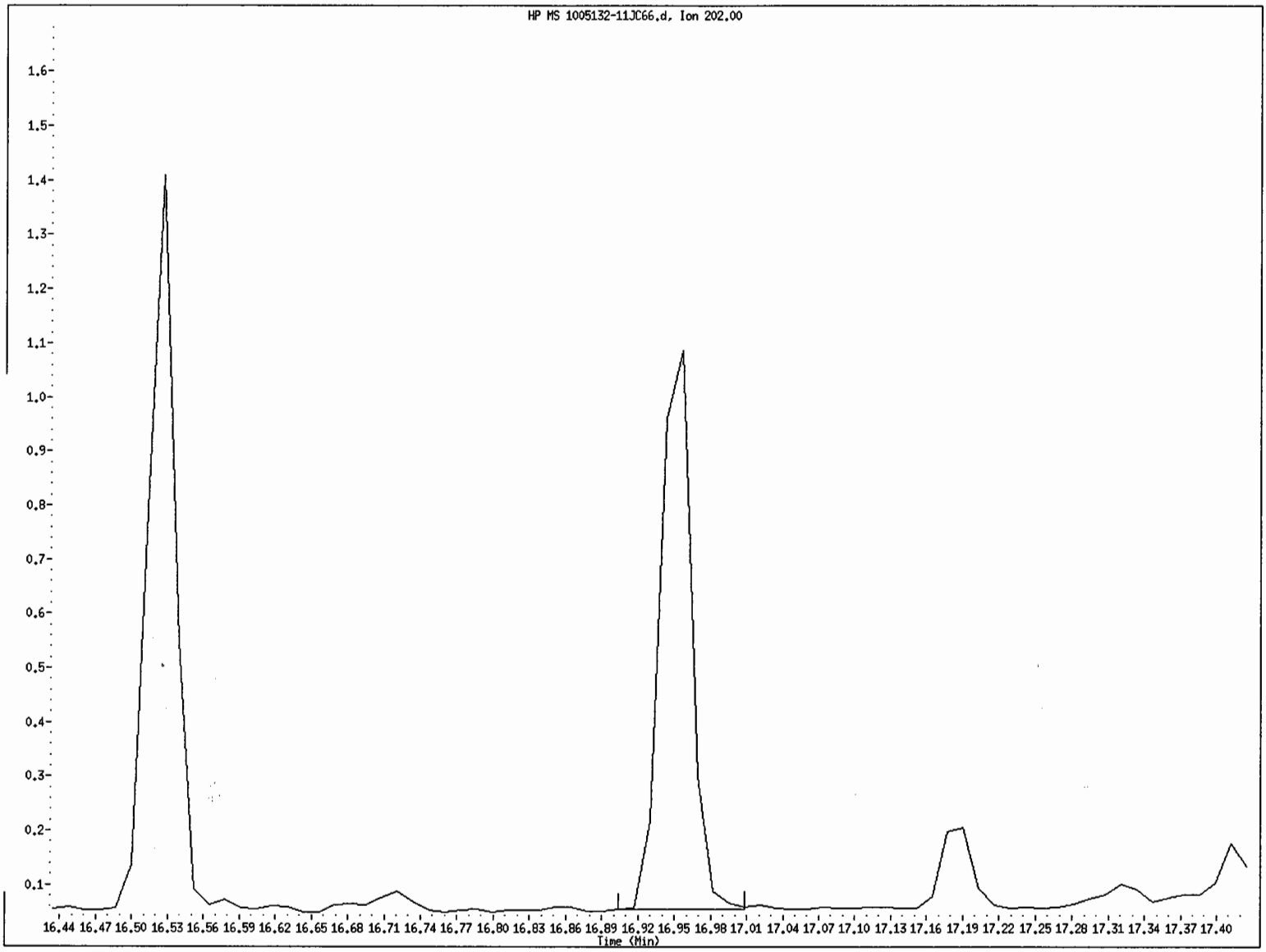
2

Ld3/10
NA

QC Flag Legend

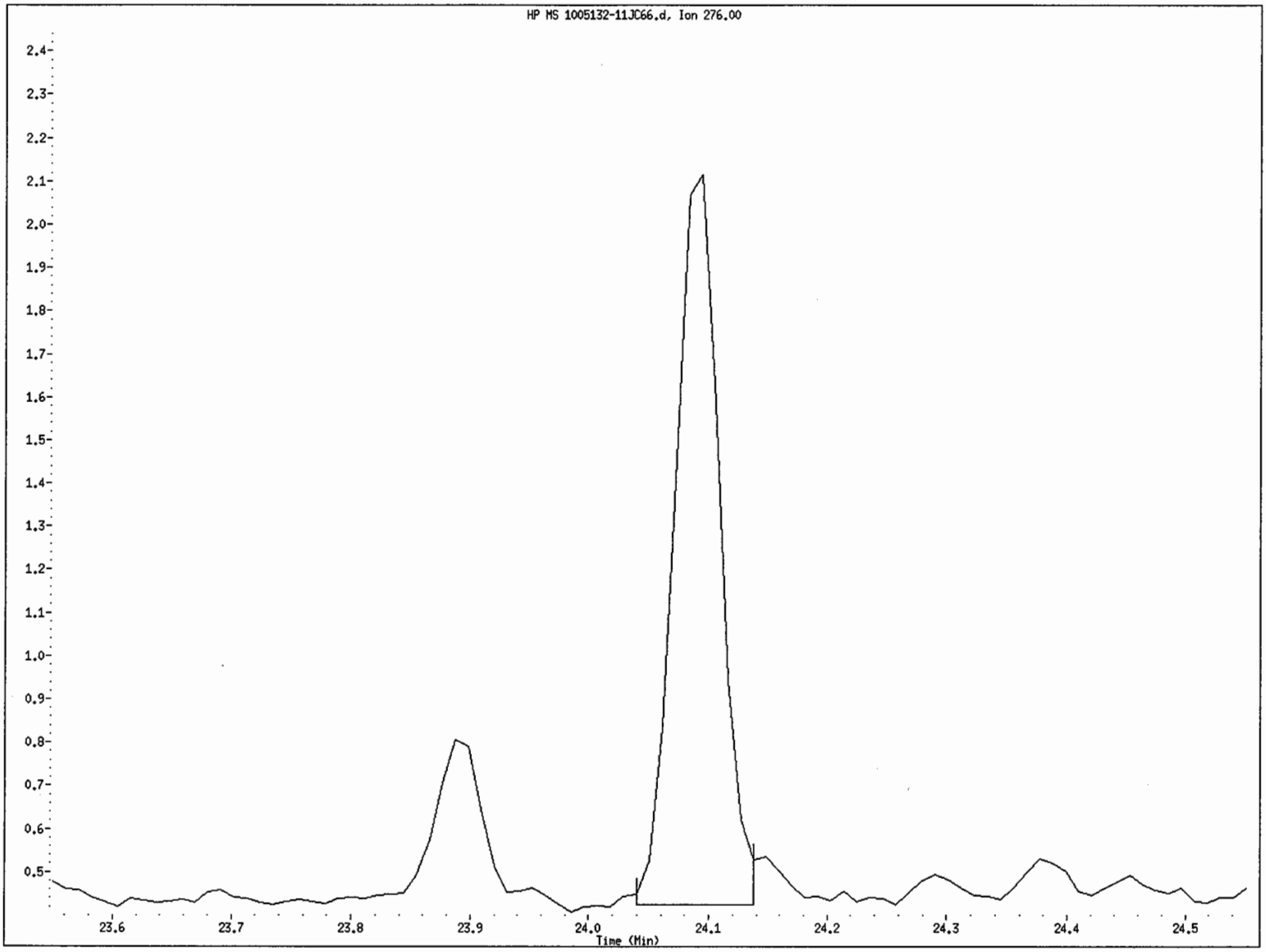
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Pyrene CAS Number 129-00-0 Area = 18721 Manually integrated



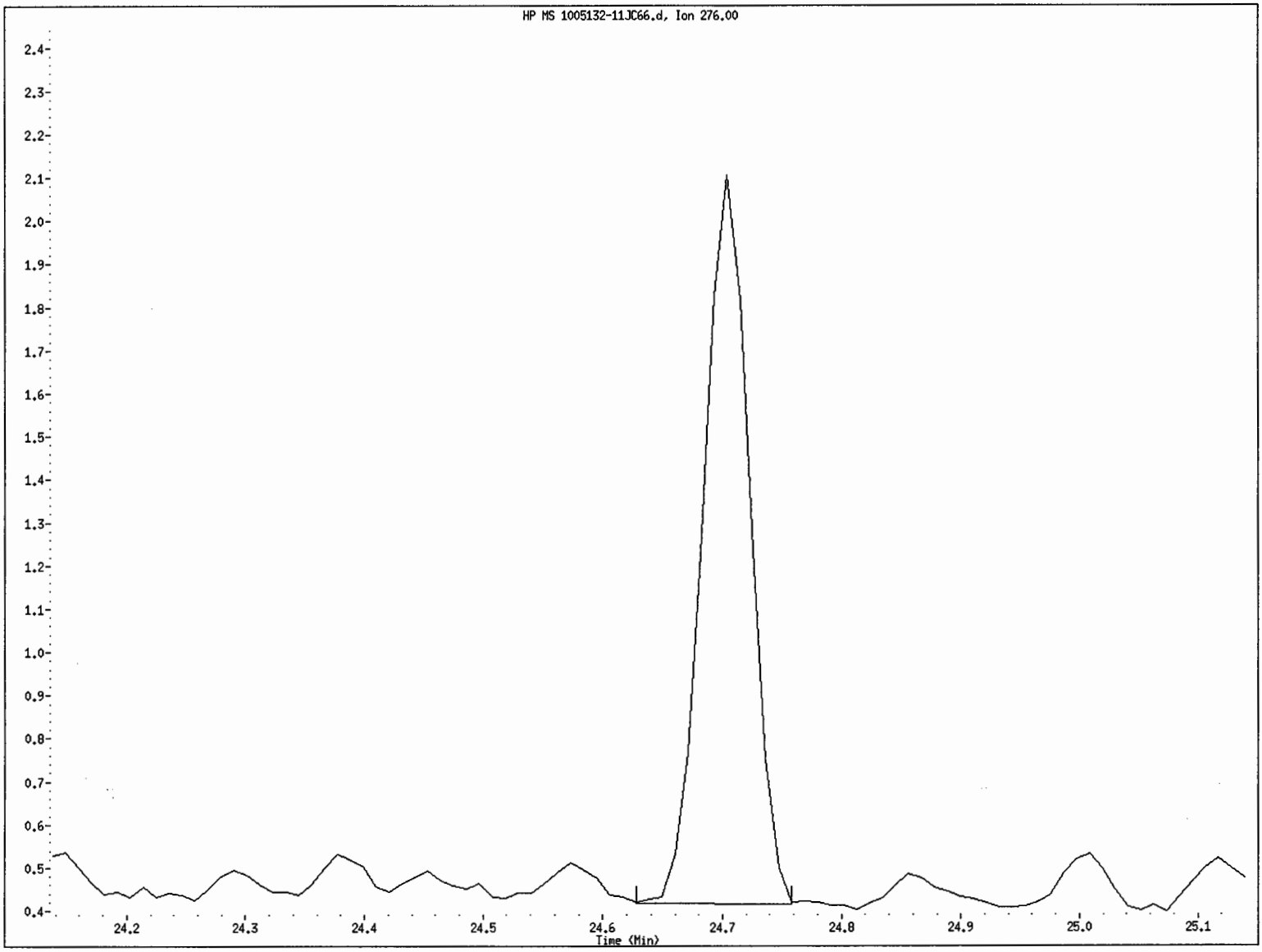
File name: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Client ID: SS86-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 09:31
Retention Time: 16.96
Operator ID: 2743

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 4497 Manually integrated



File name: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Client ID: SS86-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 09:31
Retention Time: 24.09
Operator ID: 2743

Benzo(g,h,i)perylene CAS Number 191-24-2 Area = 4595 Manually integrated



File name: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Client ID: SS86-0-1
Instrument ID: 5972hp66.i
Injection Date and Time: 27-MAY-2010 09:31
Retention Time: 24.70
Operator ID: 2743

Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

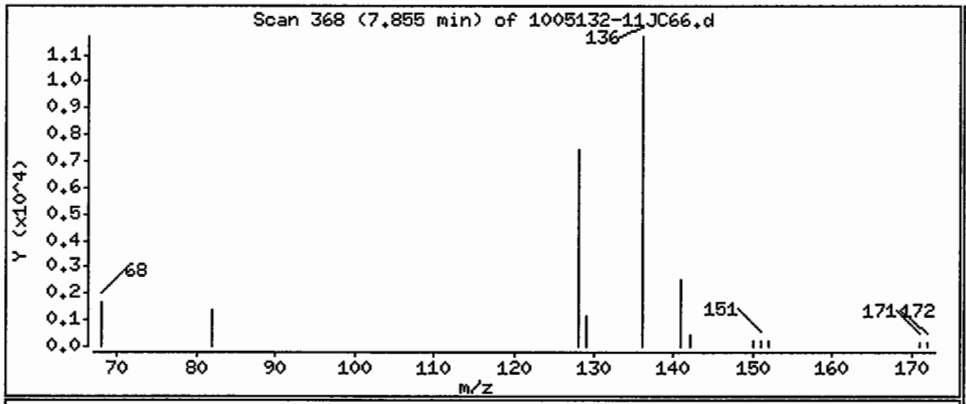
Client ID: SS86-0-1 Instrument: 5972hp66.i

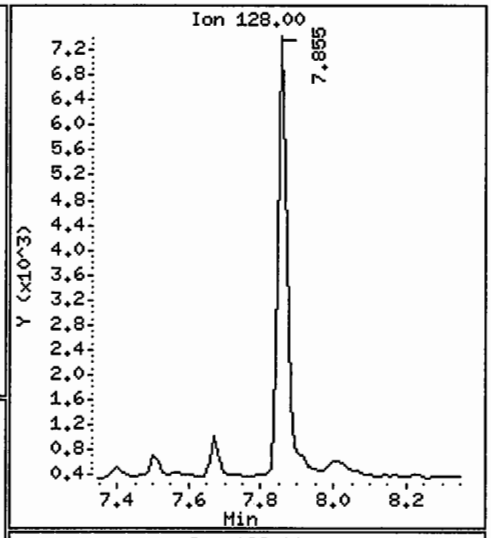
Sample Info: 1005132-11:2743

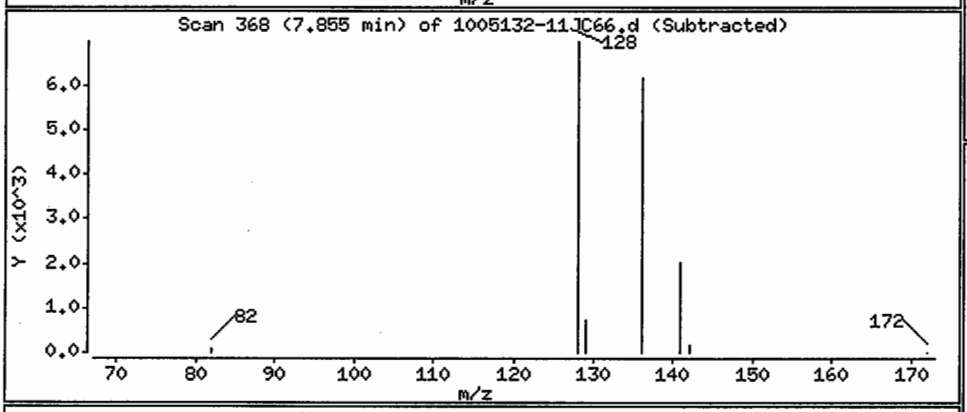
Volume Injected (uL): 2.0 Operator: 2743

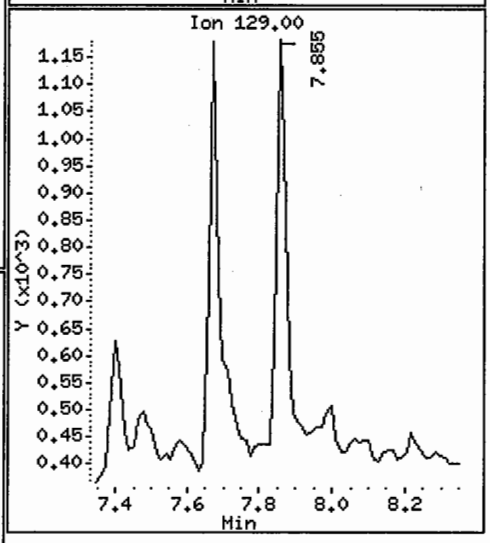
Column phase: Rtx-5MS Column diameter: 0.32

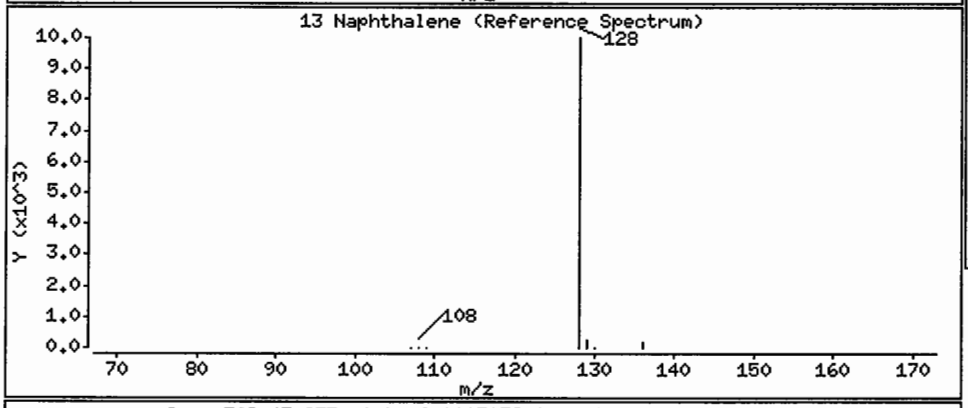
13 Naphthalene Concentration: 1.6 ug/Kg

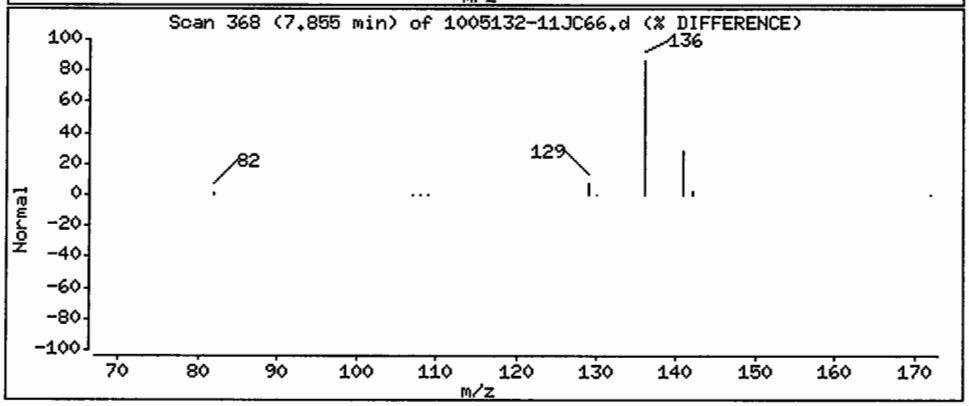












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

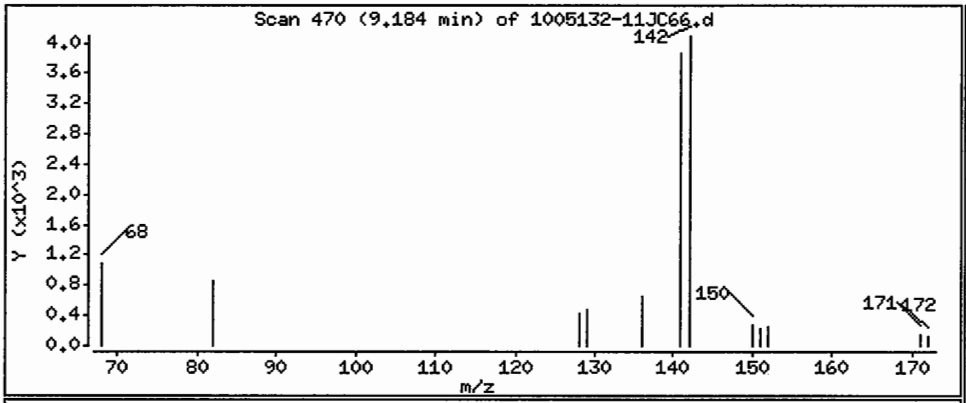
Client ID: SS86-0-1 Instrument: 5972hp66.i

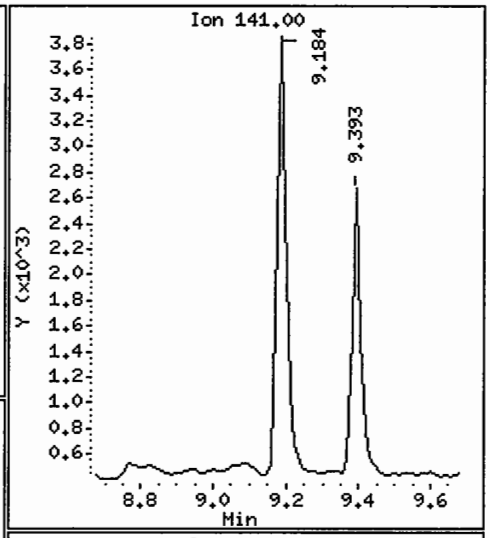
Sample Info: 1005132-11:2743

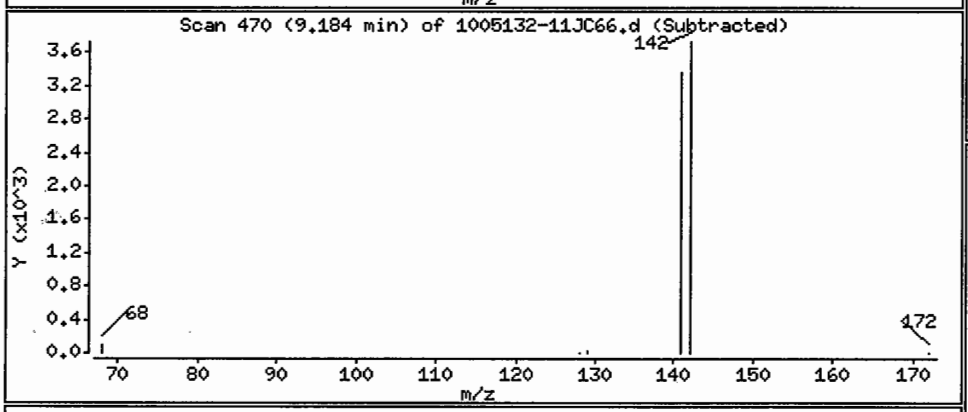
Volume Injected (uL): 2.0 Operator: 2743

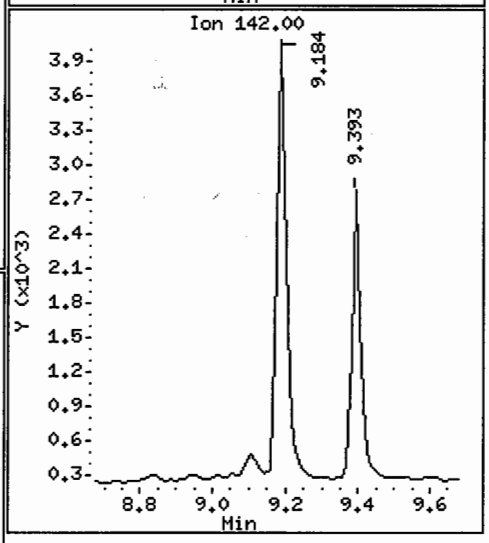
Column phase: Rtx-5MS Column diameter: 0.32

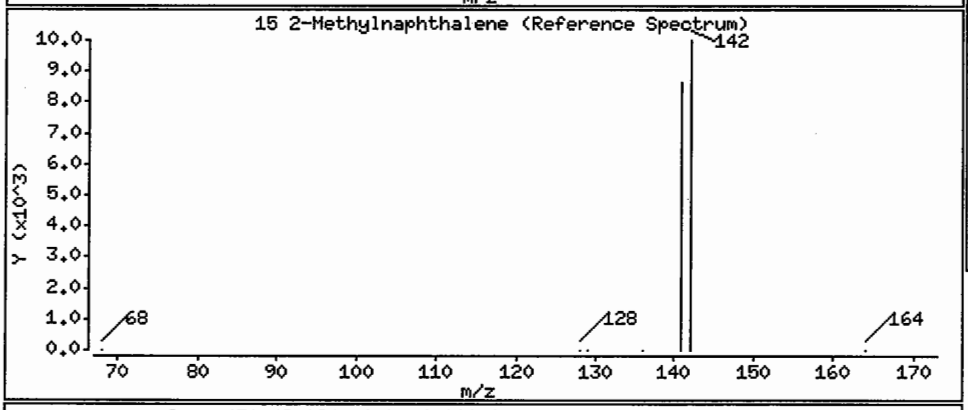
15 2-Methylnaphthalene Concentration: 1.2 ug/Kg

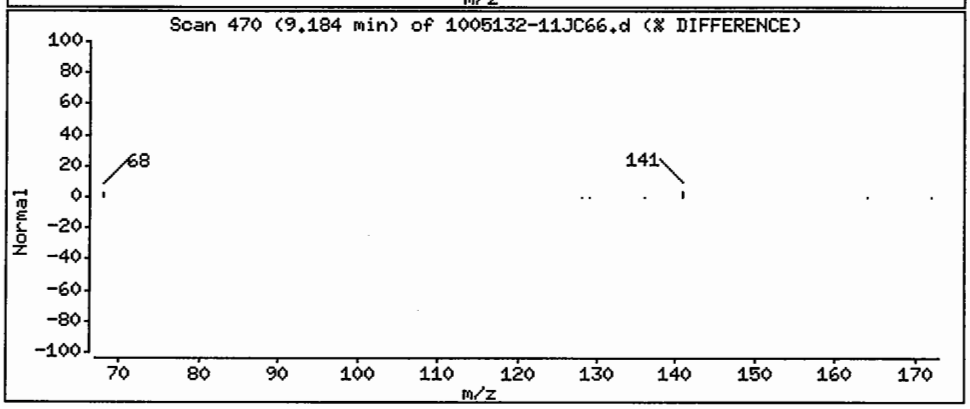












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

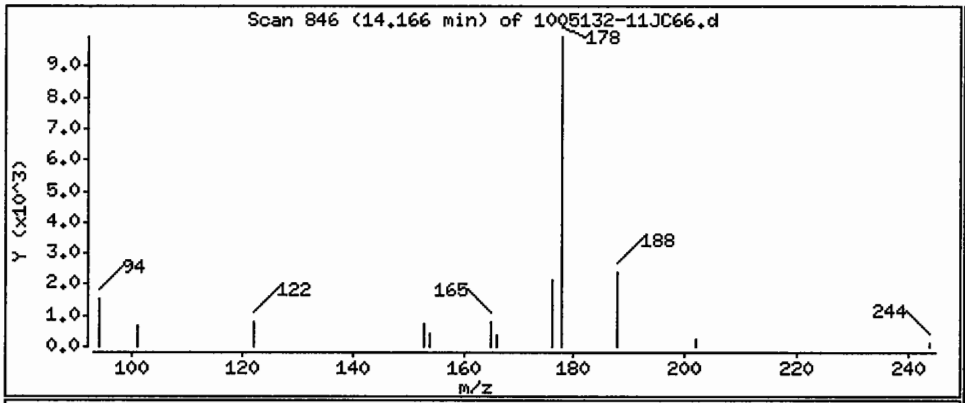
Client ID: SS86-0-1 Instrument: 5972hp66.i

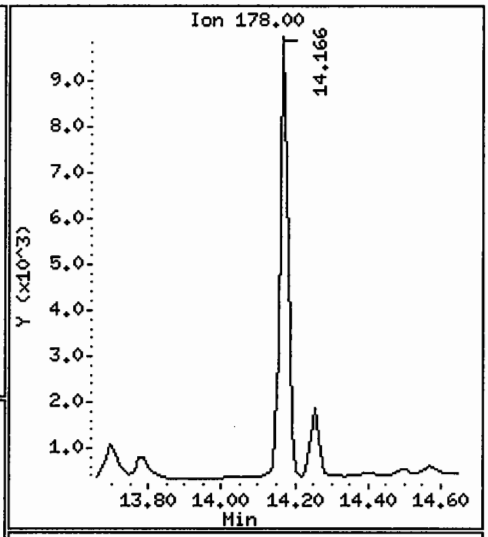
Sample Info: 1005132-11:2743

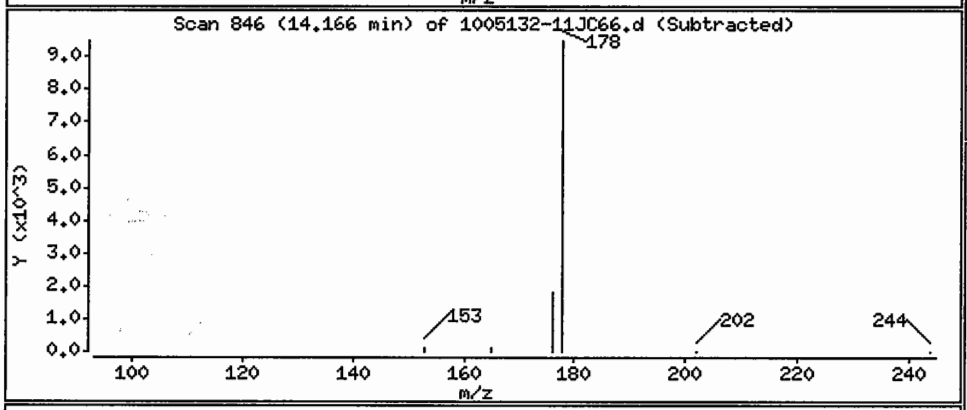
Volume Injected (uL): 2.0 Operator: 2743

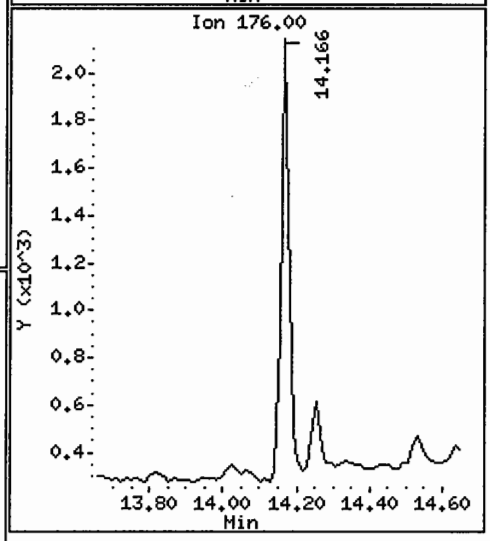
Column phase: Rtx-5MS Column diameter: 0.32

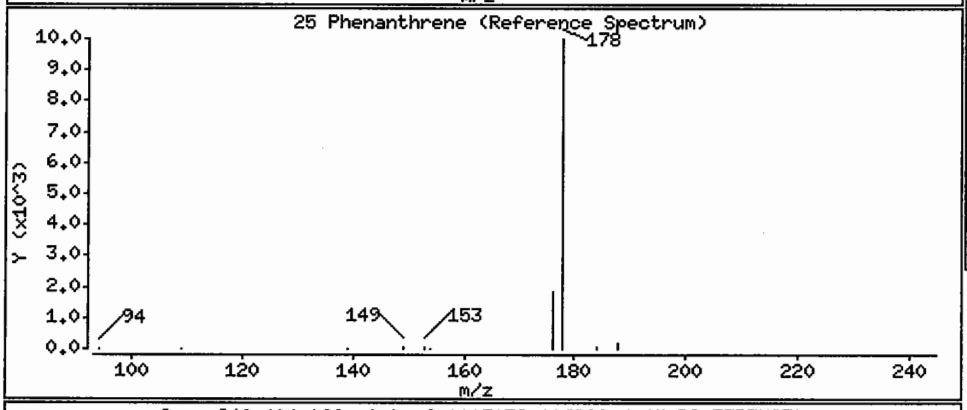
25 Phenanthrene Concentration: 1.7 ug/Kg

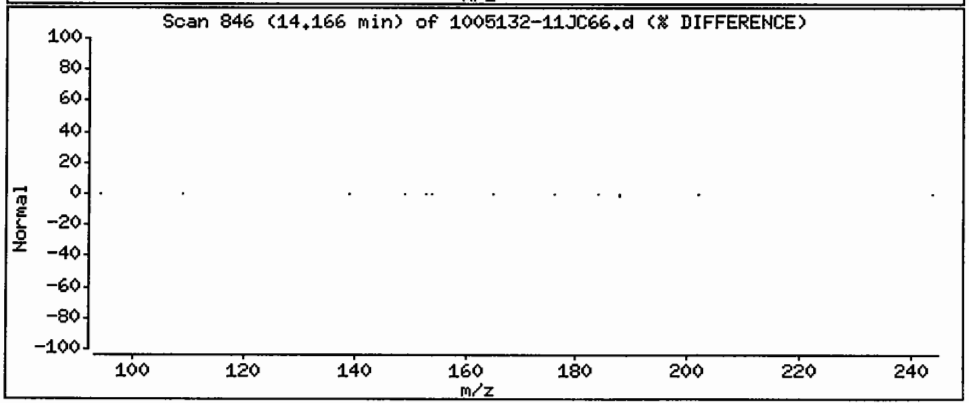












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

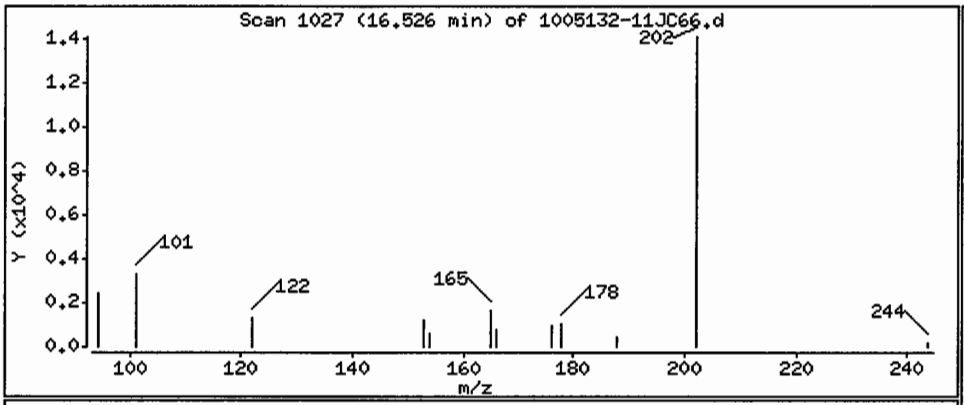
Client ID: SS86-0-1 Instrument: 5972hp66.i

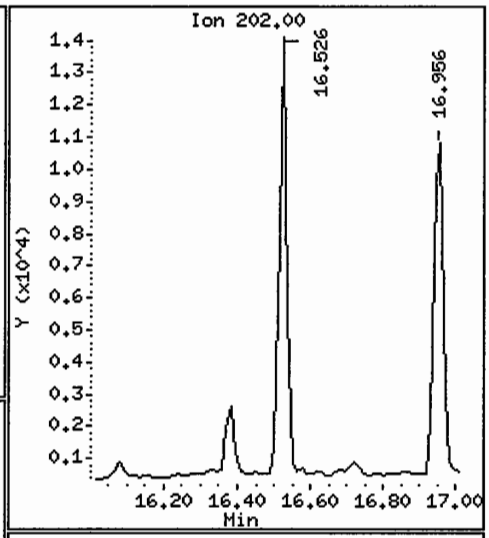
Sample Info: 1005132-11:2743

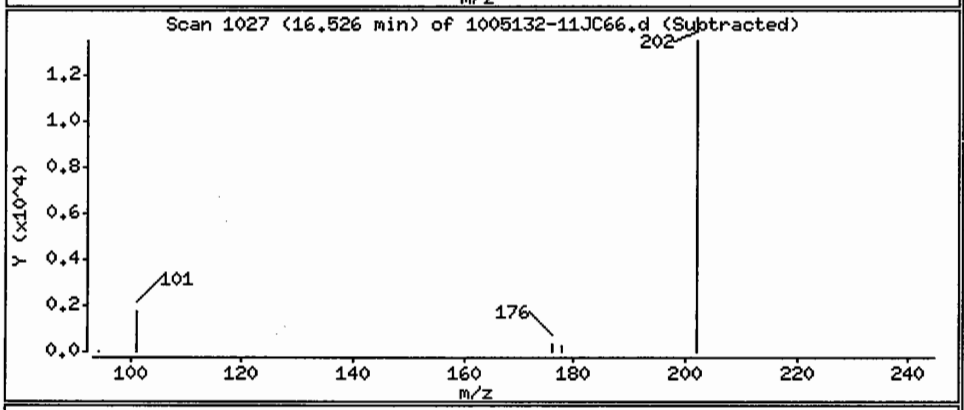
Volume Injected (uL): 2.0 Operator: 2743

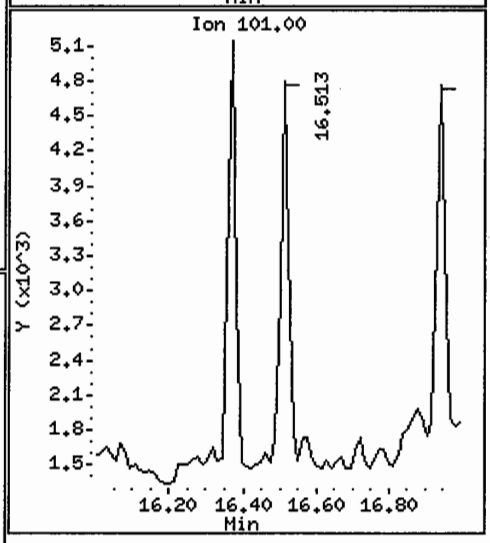
Column phase: Rtx-5MS Column diameter: 0.32

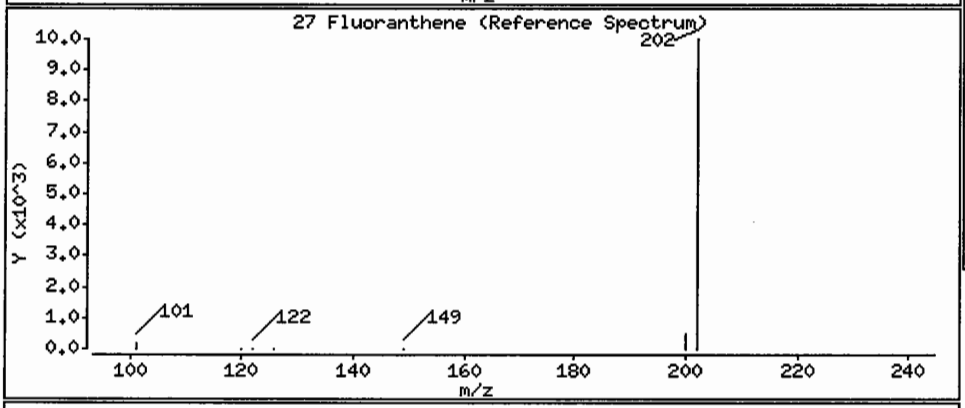
27 Fluoranthene Concentration: 3.7 ug/Kg

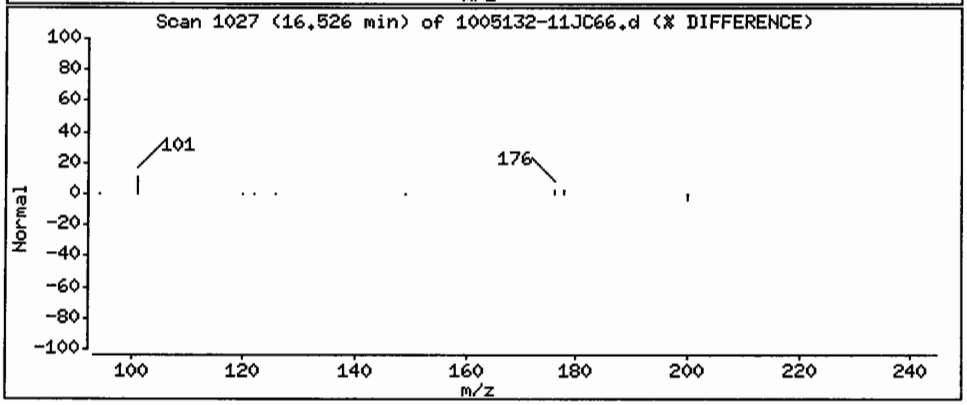












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

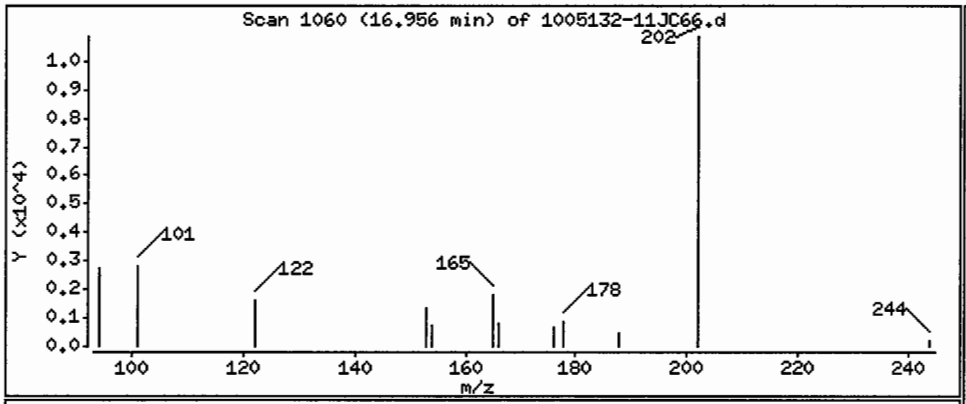
Client ID: SS86-0-1 Instrument: 5972hp66.i

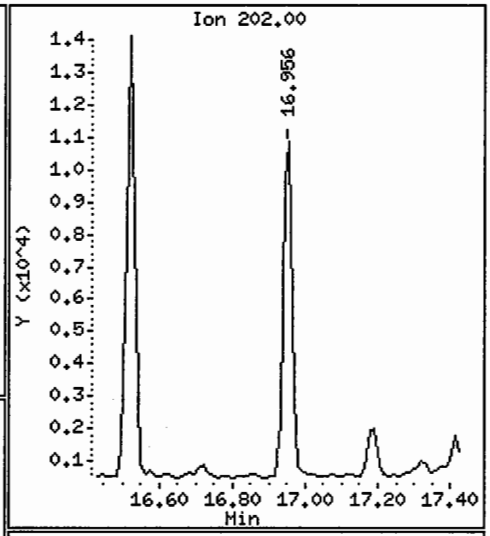
Sample Info: 1005132-11:2743

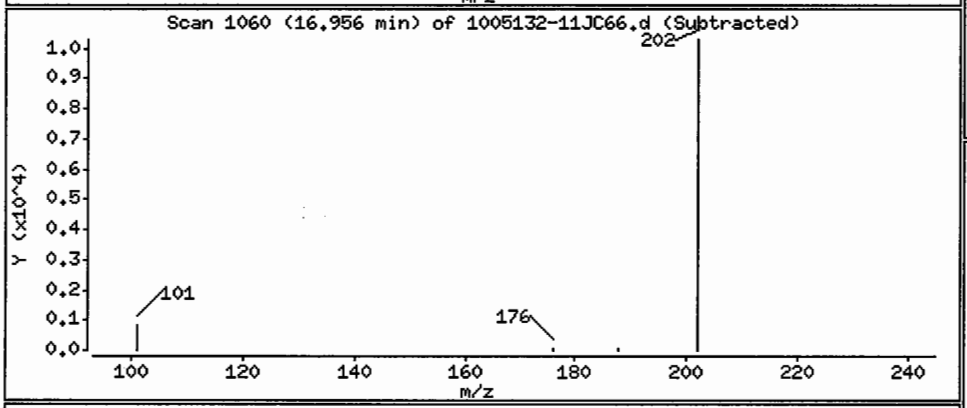
Volume Injected (uL): 2.0 Operator: 2743

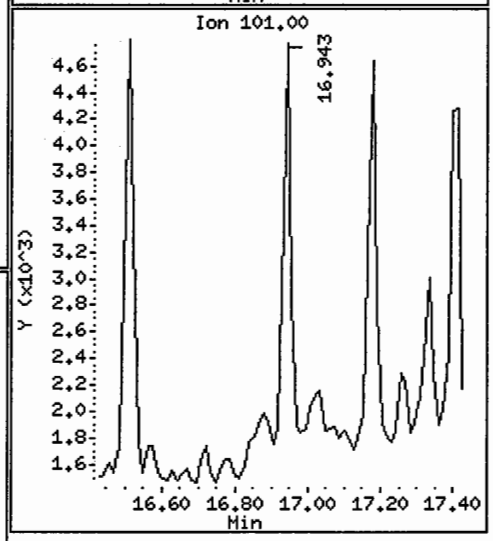
Column phase: Rtx-5MS Column diameter: 0.32

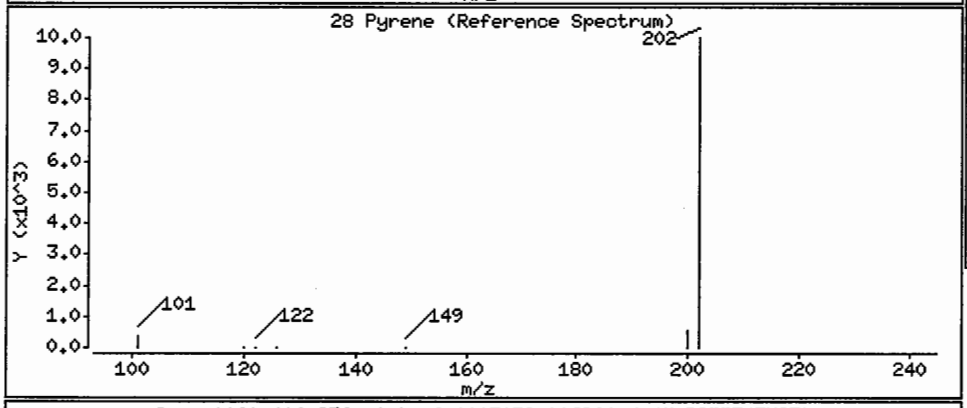
28 Pyrene Concentration: 3.0 ug/Kg

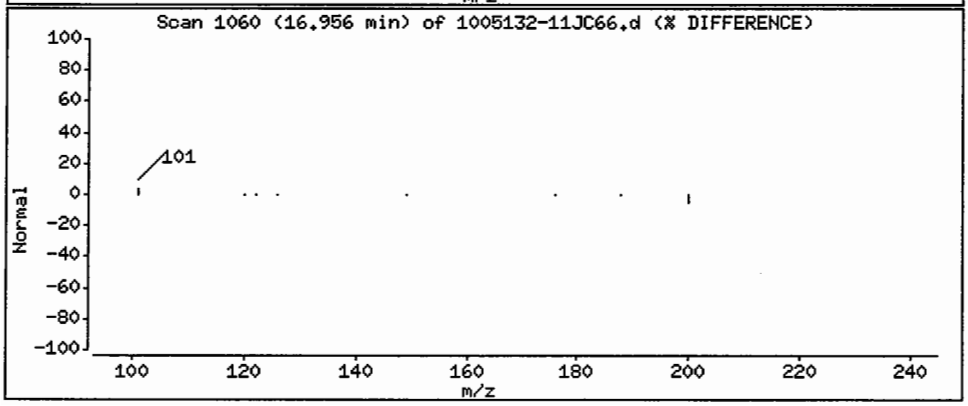












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

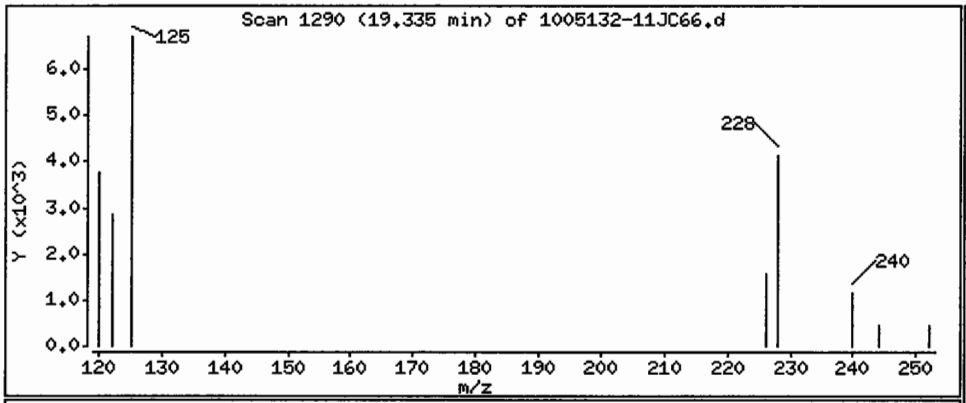
Client ID: SS86-0-1 Instrument: 5972hp66.i

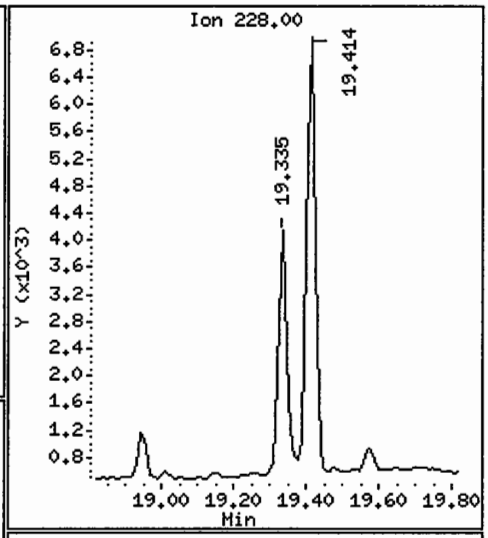
Sample Info: 1005132-11:2743

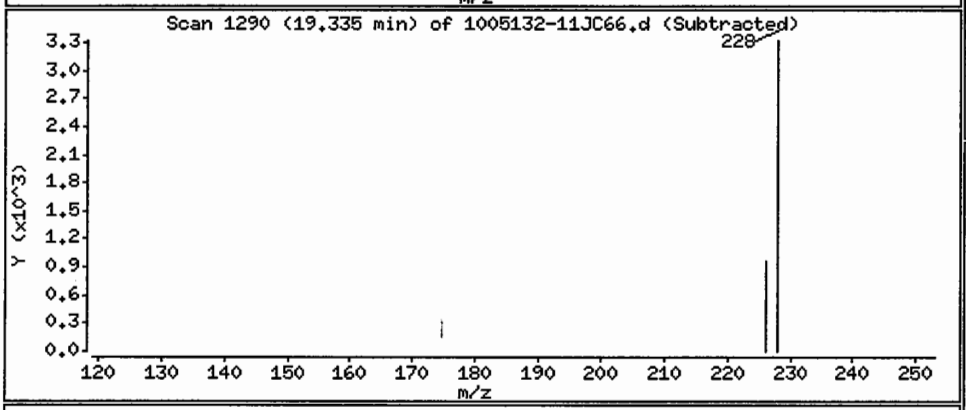
Volume Injected (uL): 2.0 Operator: 2743

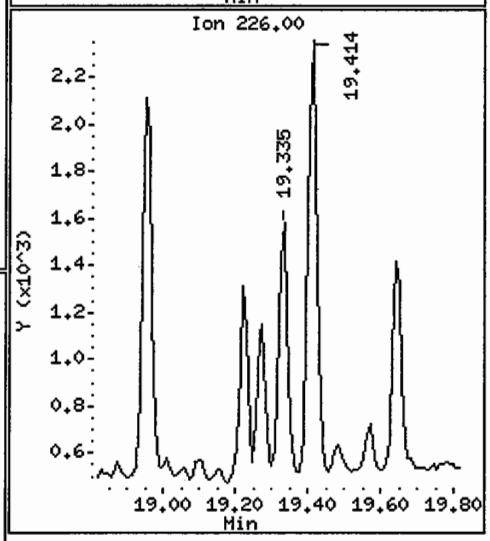
Column phase: Rtx-5MS Column diameter: 0.32

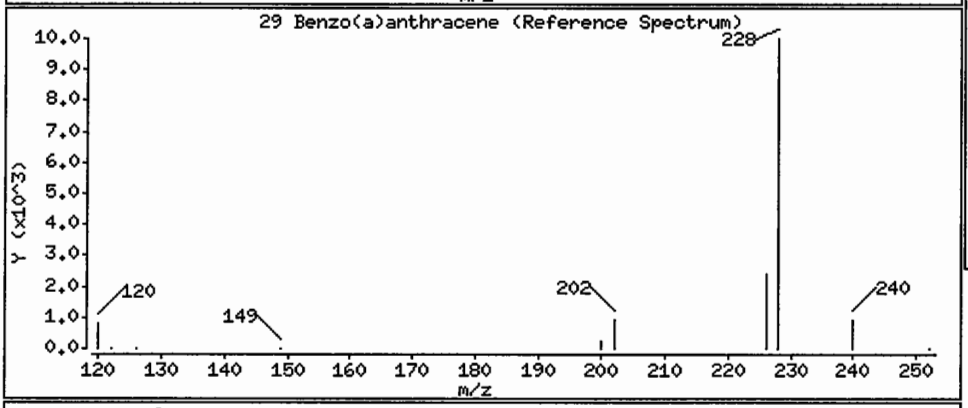
29 Benzo(a)anthracene Concentration: 1.2 ug/Kg

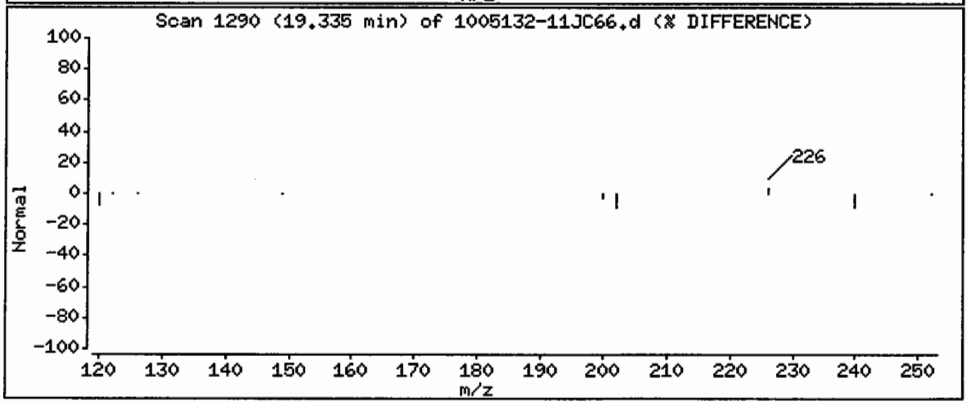












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

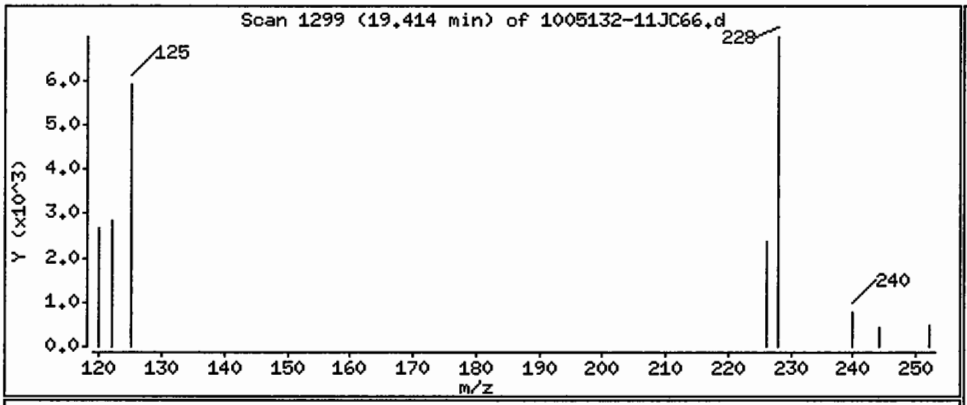
Client ID: SS86-0-1 Instrument: 5972hp66.i

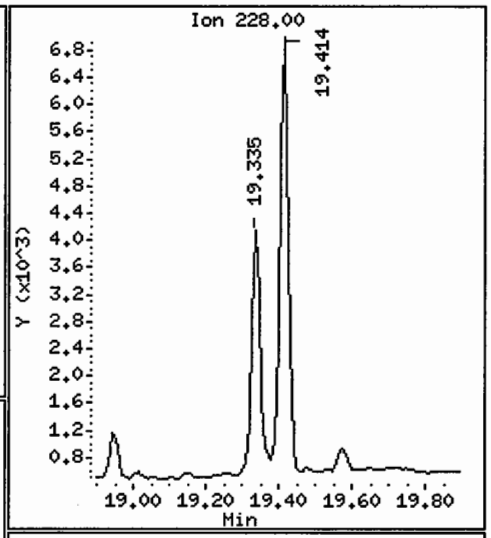
Sample Info: 1005132-11:2743

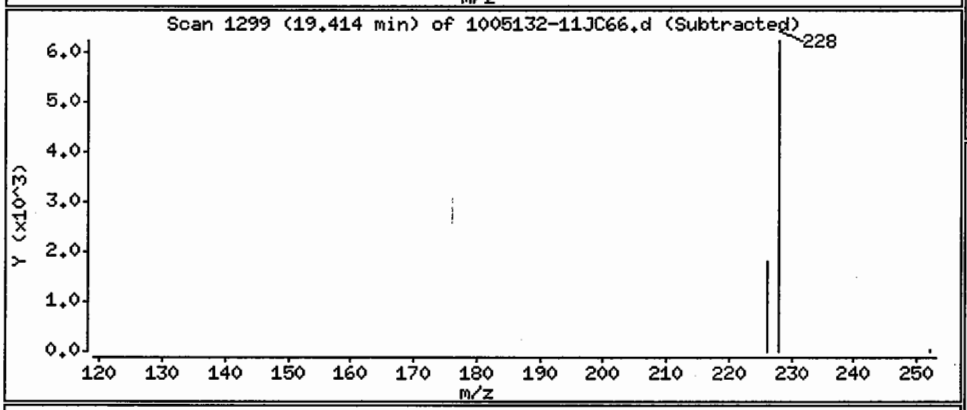
Volume Injected (uL): 2.0 Operator: 2743

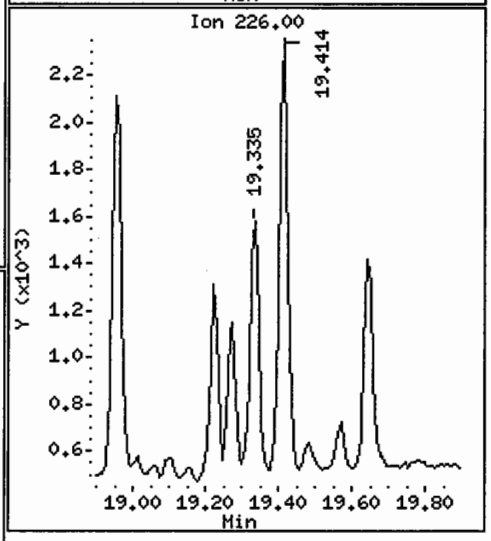
Column phase: Rtx-5MS Column diameter: 0.32

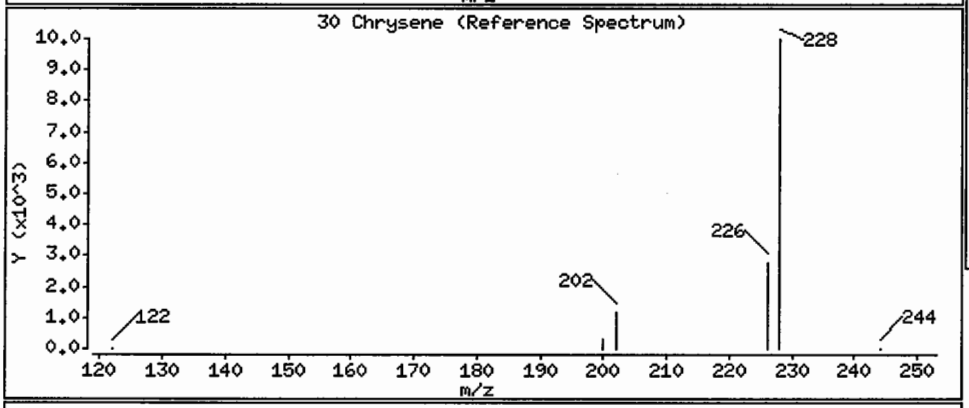
30 Chrysene Concentration: 2.1 ug/Kg

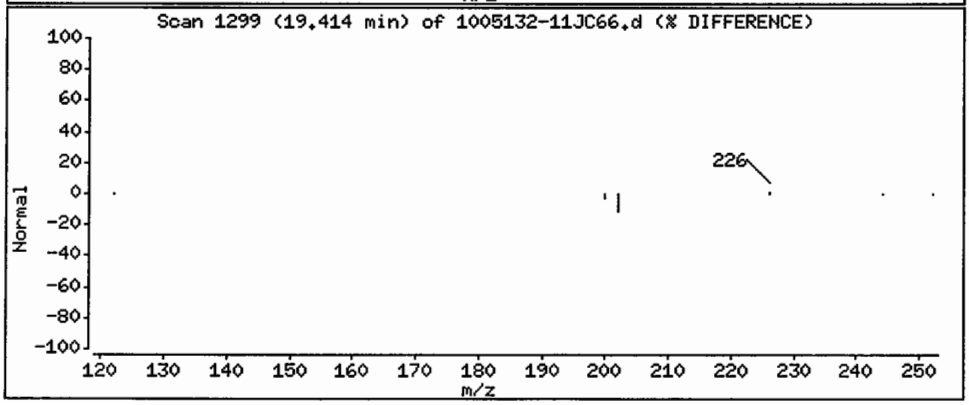












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

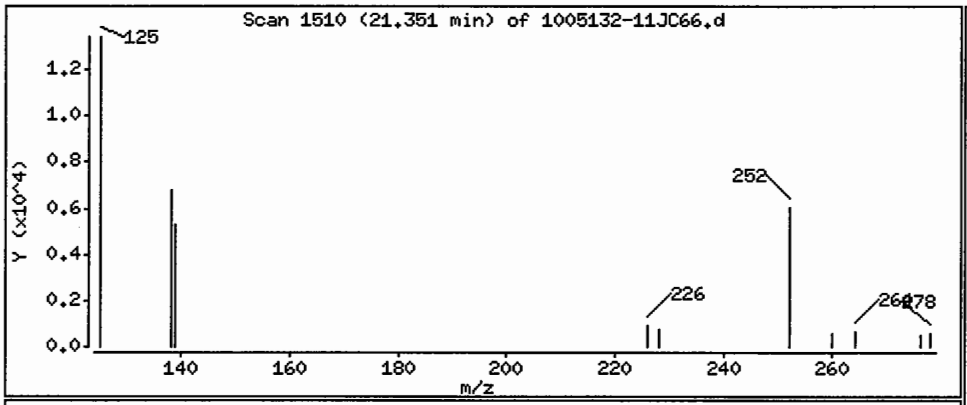
Client ID: SS86-0-1 Instrument: 5972hp66.i

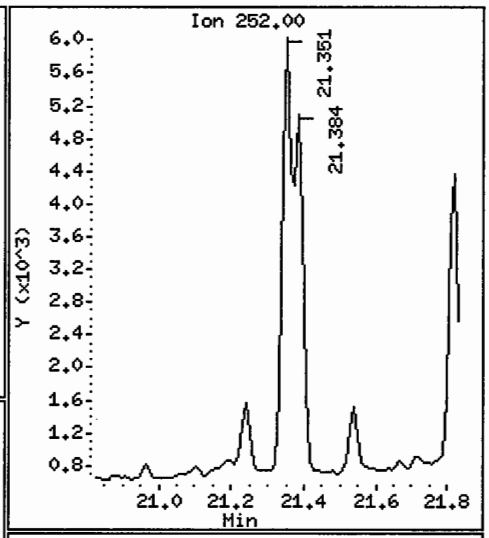
Sample Info: 1005132-11:2743

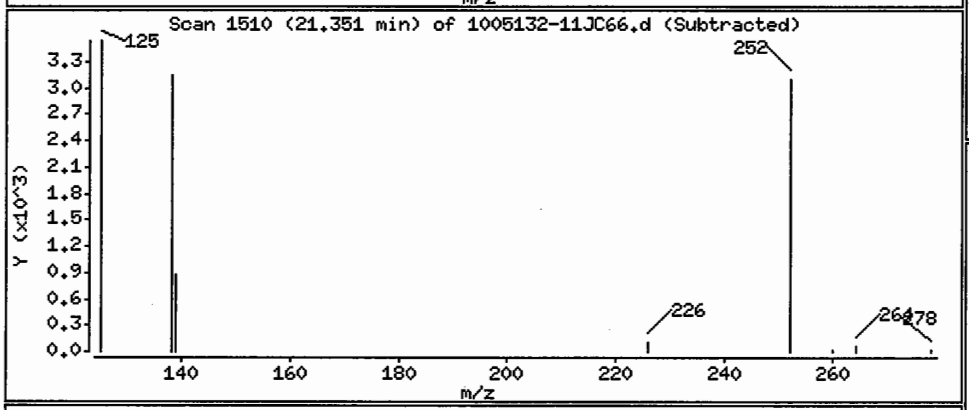
Volume Injected (uL): 2.0 Operator: 2743

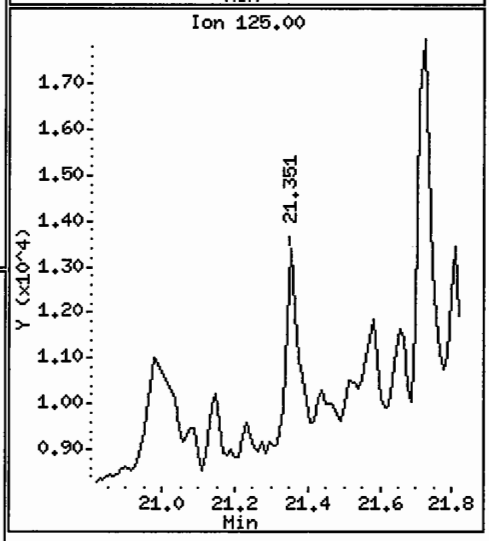
Column phase: Rtx-5MS Column diameter: 0.32

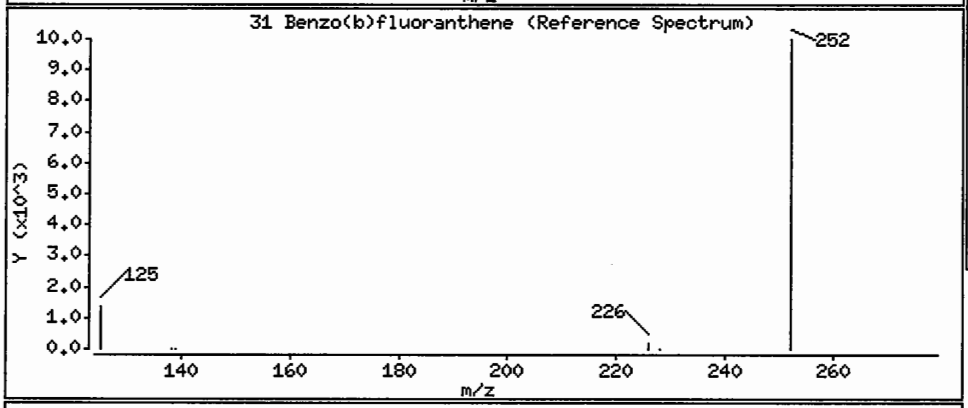
31 Benzo(b)fluoranthene Concentration: 2.5 ug/Kg

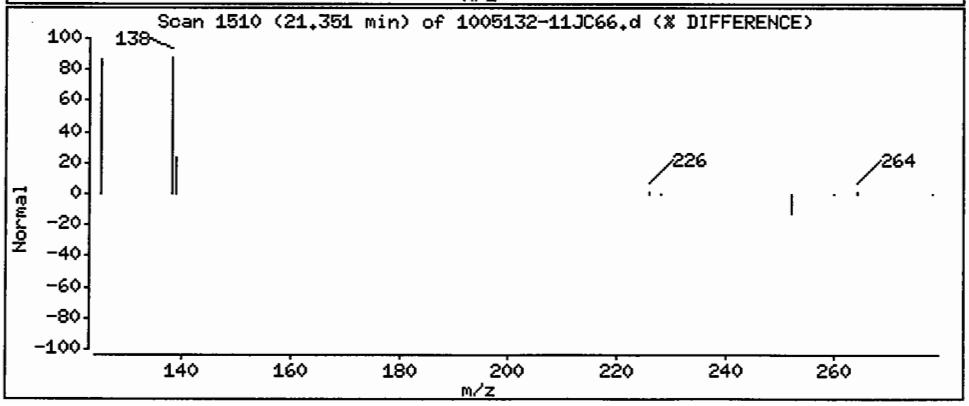












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

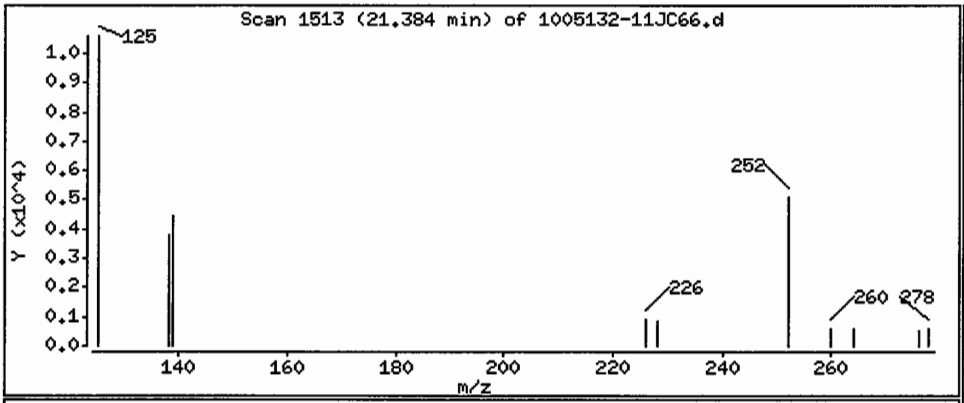
Client ID: SS86-0-1 Instrument: 5972hp66.i

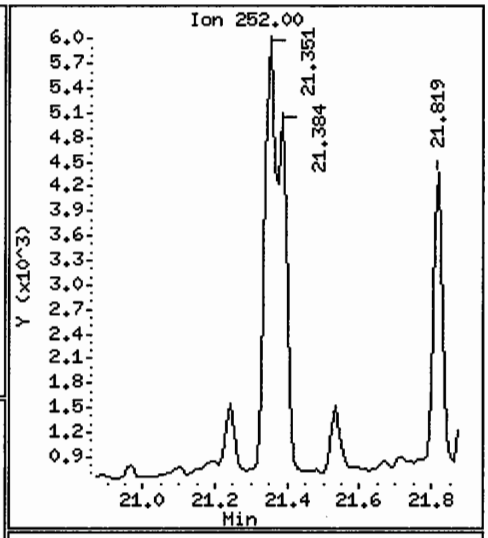
Sample Info: 1005132-11:2743

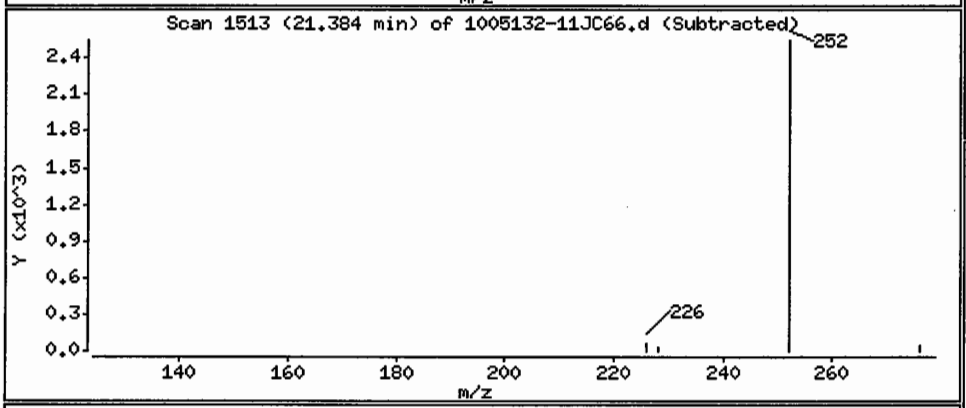
Volume Injected (uL): 2.0 Operator: 2743

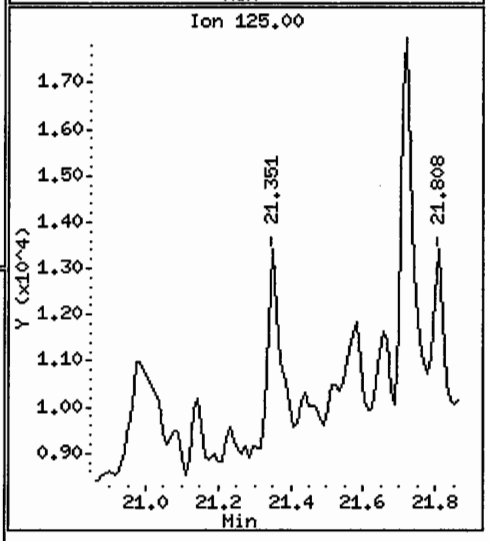
Column phase: Rtx-5MS Column diameter: 0.32

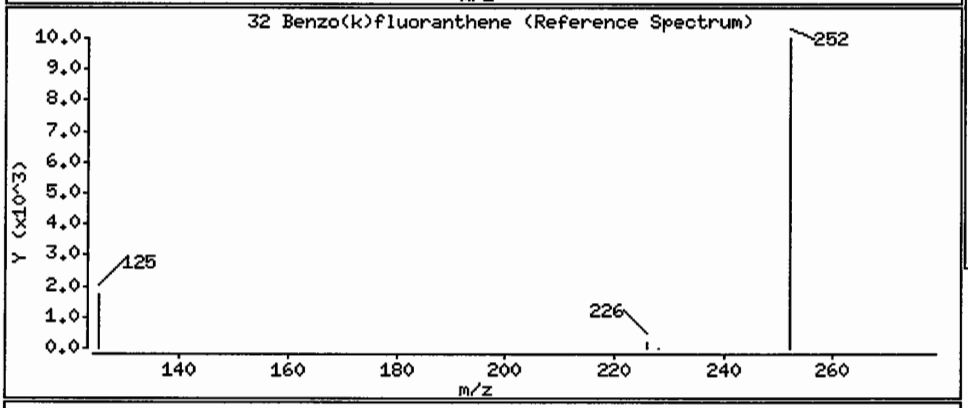
32 Benzo(k)fluoranthene Concentration: 1.6 ug/Kg

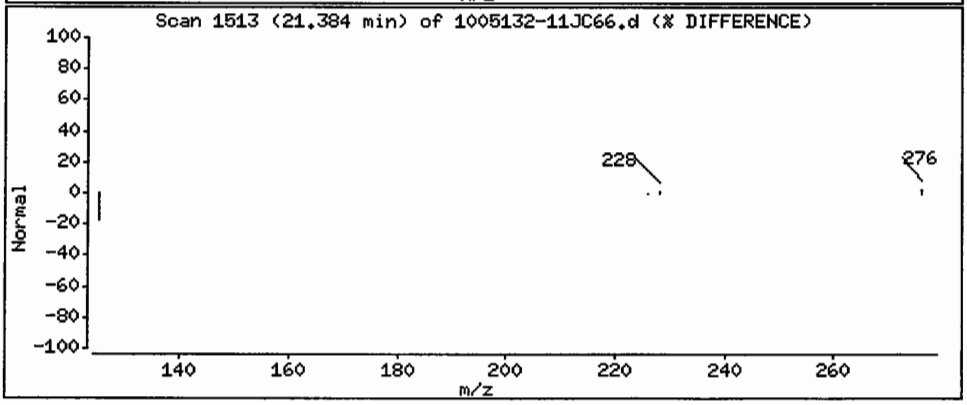












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

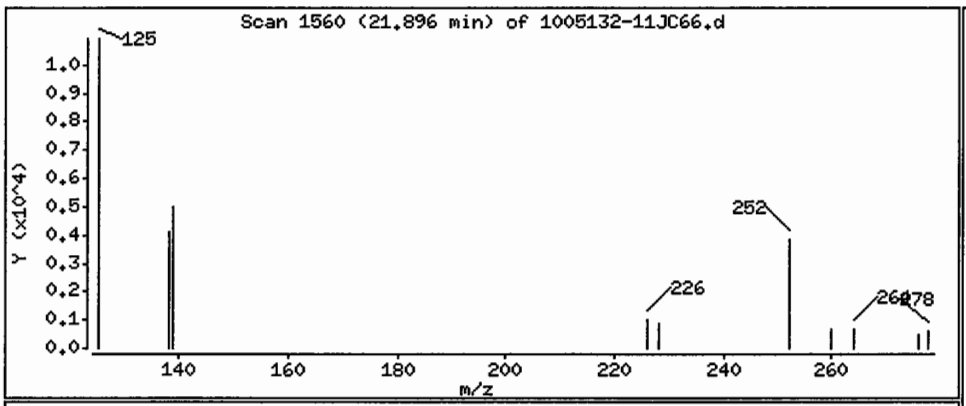
Client ID: SS86-0-1 Instrument: 5972hp66.i

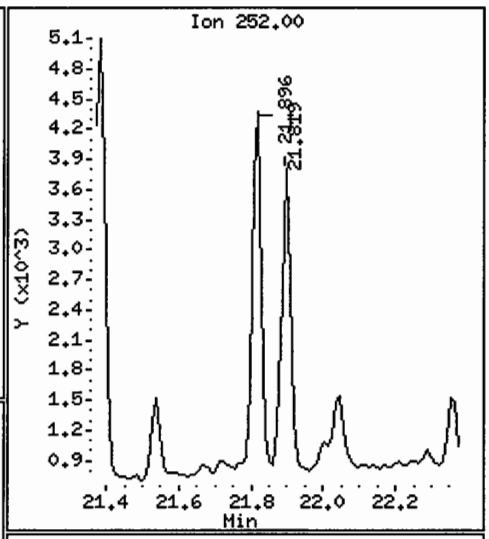
Sample Info: 1005132-11:2743

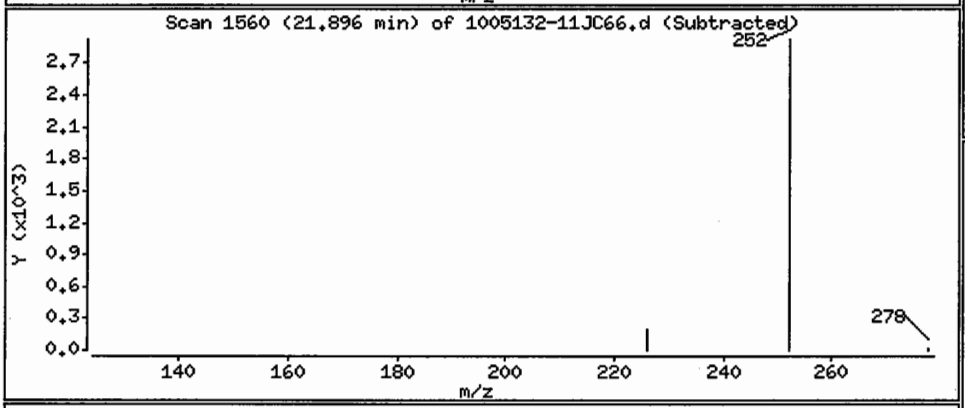
Volume Injected (uL): 2.0 Operator: 2743

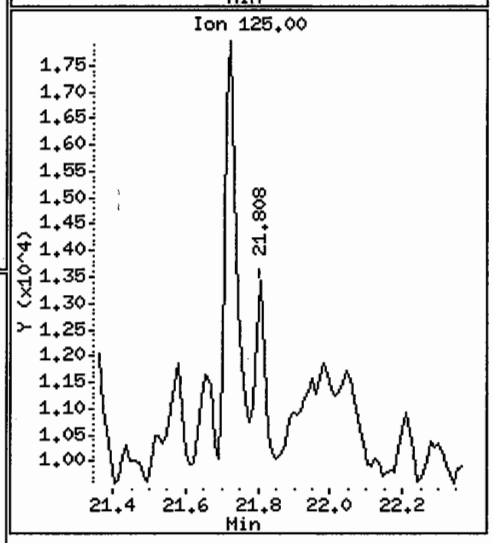
Column phase: Rtx-5MS Column diameter: 0.32

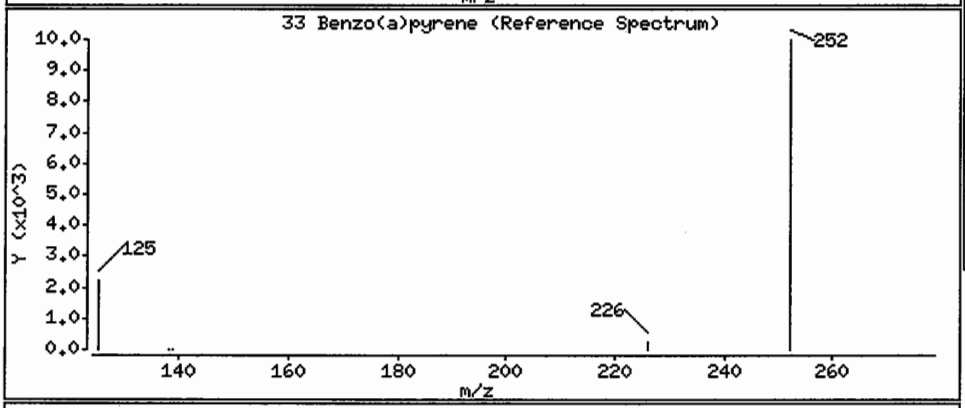
33 Benzo(a)pyrene Concentration: 1.2 ug/Kg

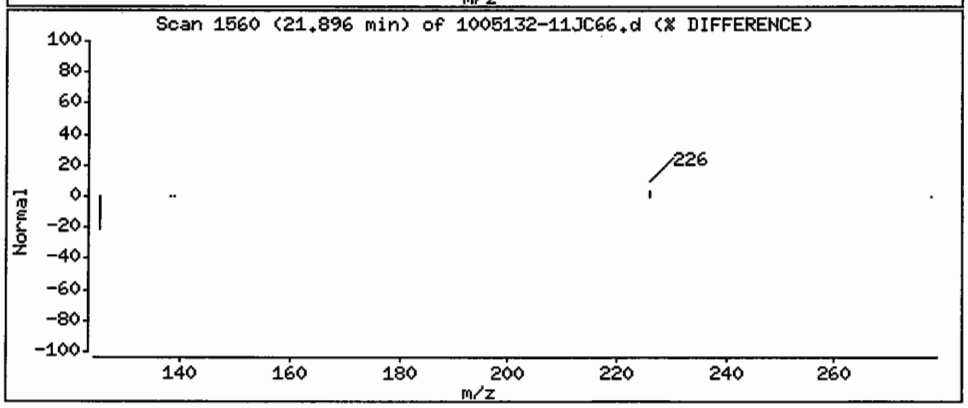












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

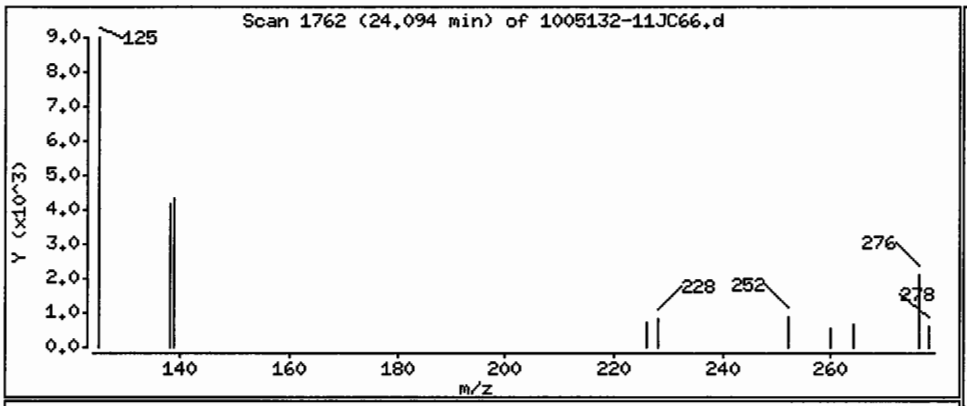
Client ID: SS86-0-1 Instrument: 5972hp66.i

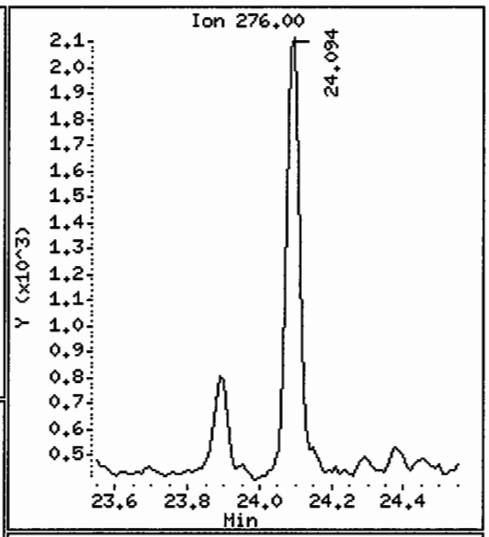
Sample Info: 1005132-11:2743

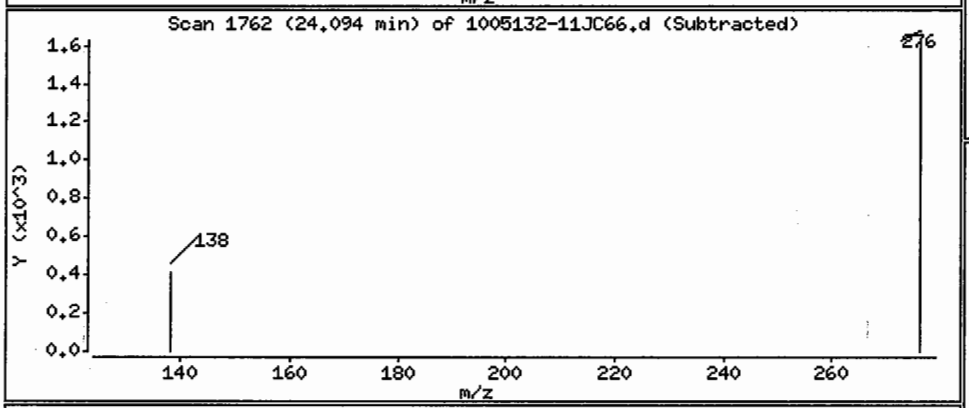
Volume Injected (uL): 2.0 Operator: 2743

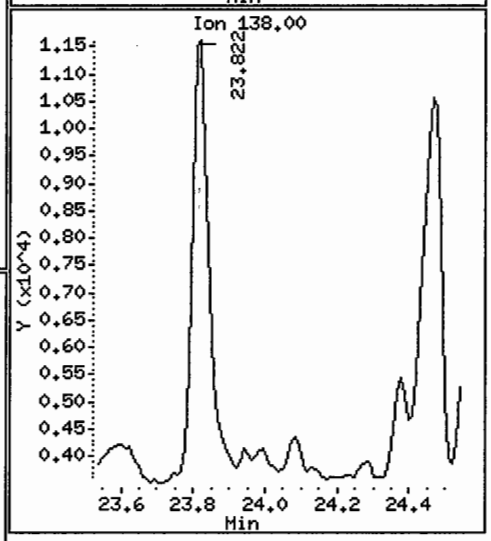
Column phase: Rtx-5MS Column diameter: 0.32

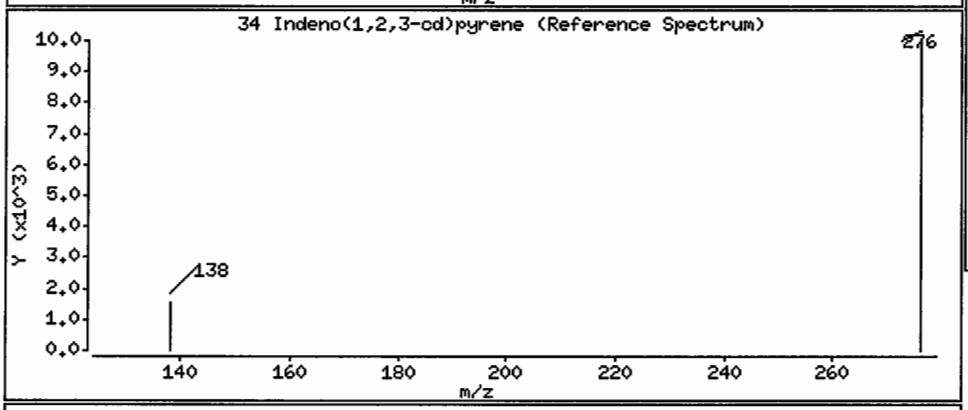
34 Indeno(1,2,3-cd)pyrene Concentration: 1.2 ug/Kg

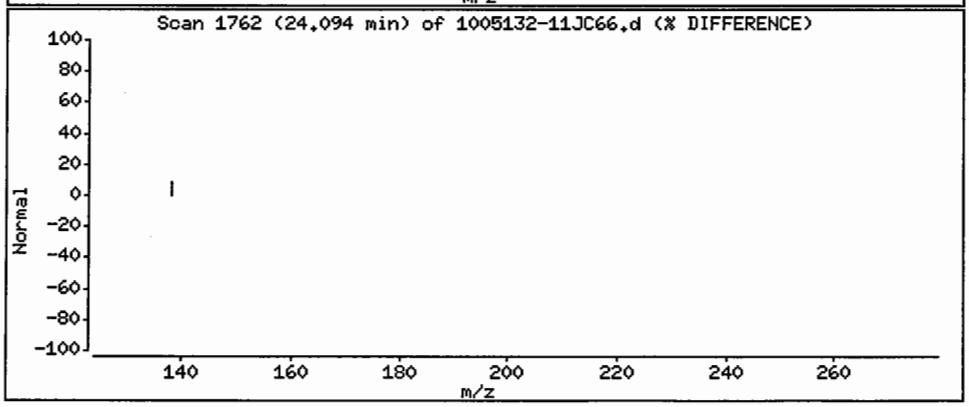












Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d

Date : 27-MAY-2010 09:31

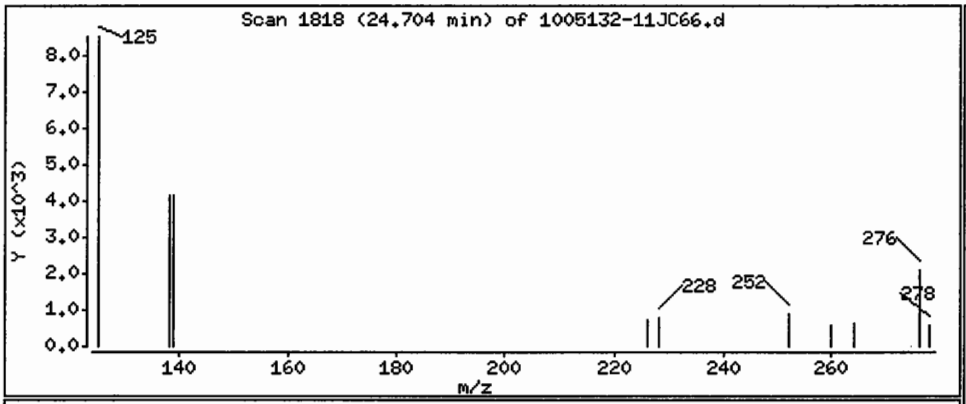
Client ID: SS86-0-1 Instrument: 5972hp66.i

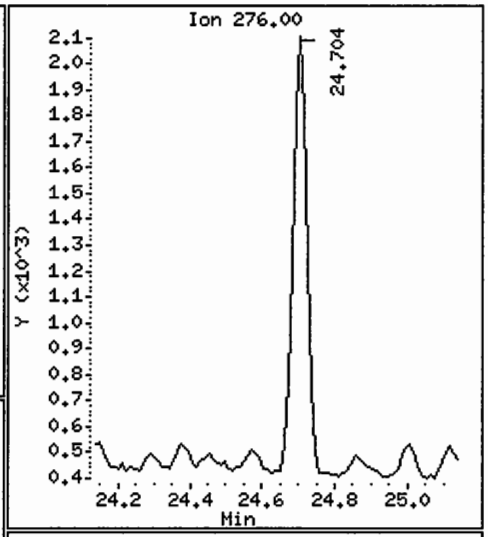
Sample Info: 1005132-11:2743

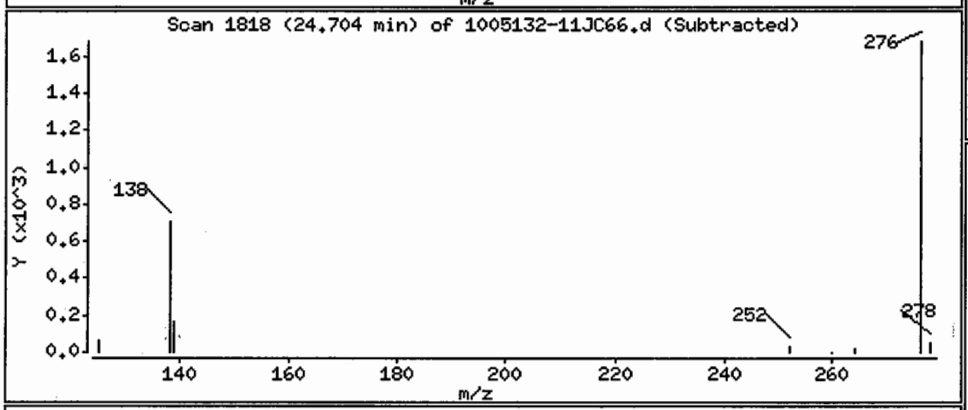
Volume Injected (uL): 2.0 Operator: 2743

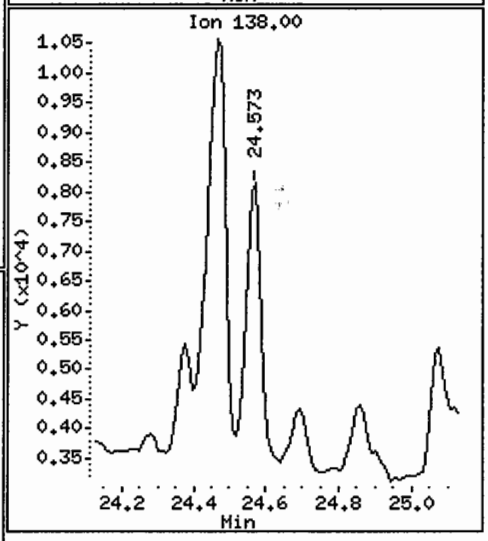
Column phase: Rtx-5MS Column diameter: 0.32

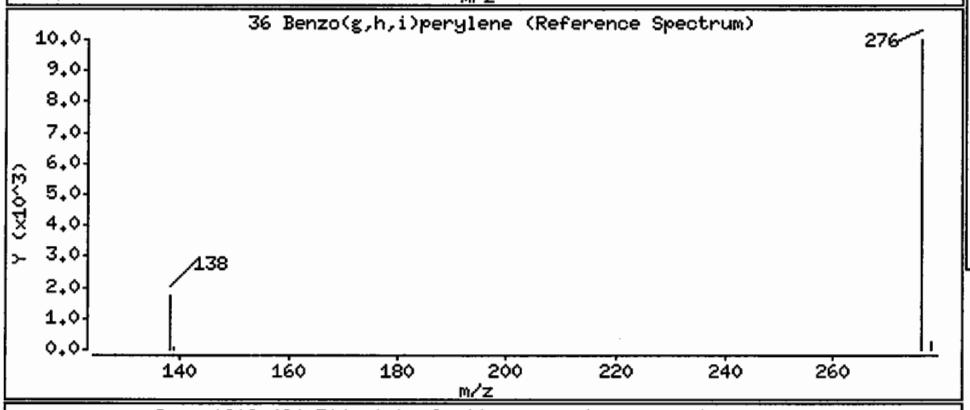
36 Benzo(g,h,i)perylene Concentration: 1.1 ug/Kg

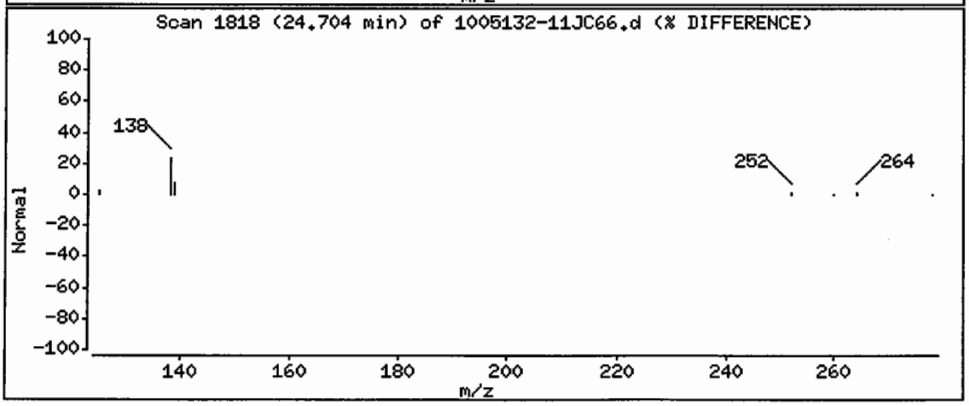






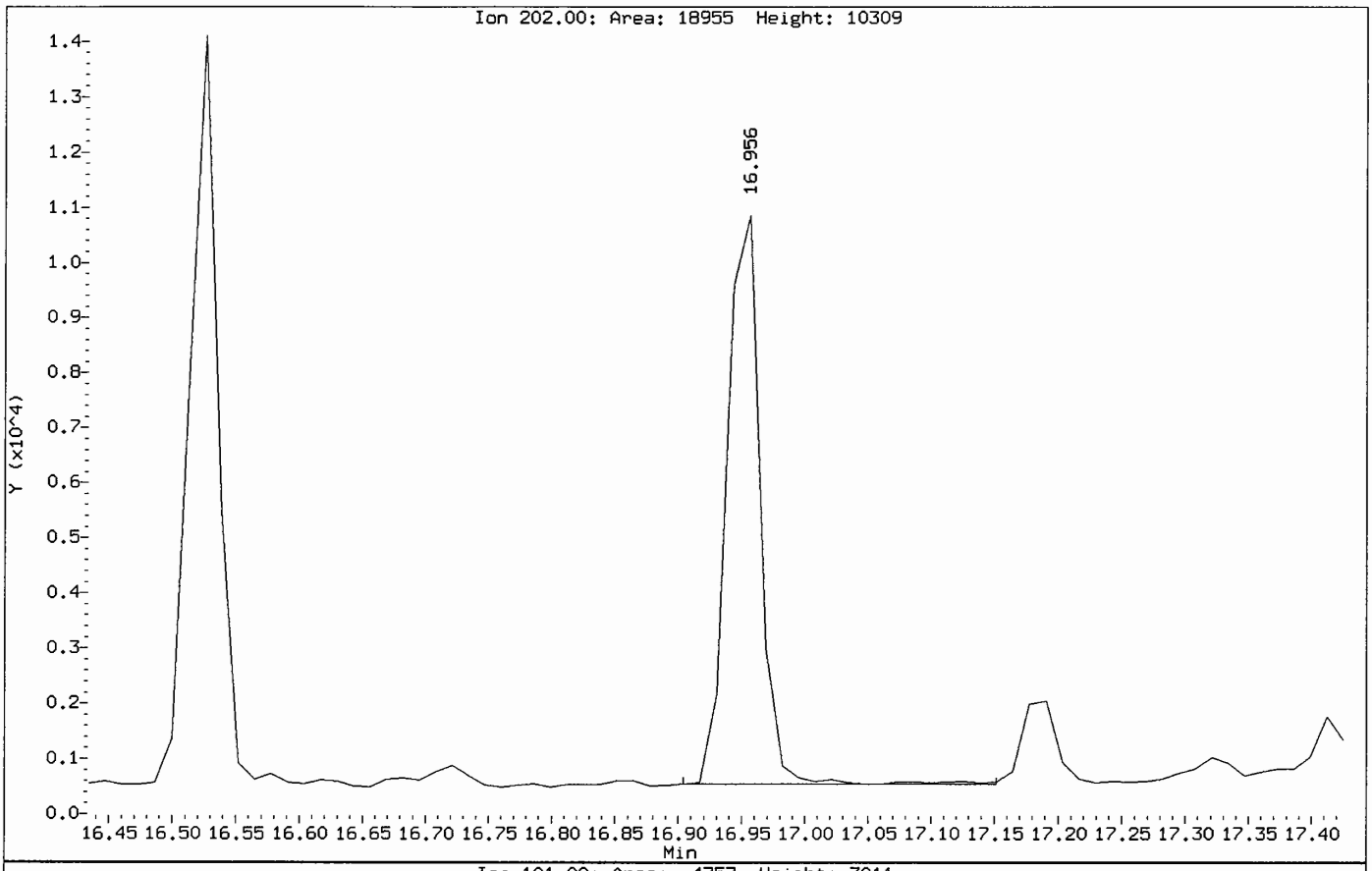


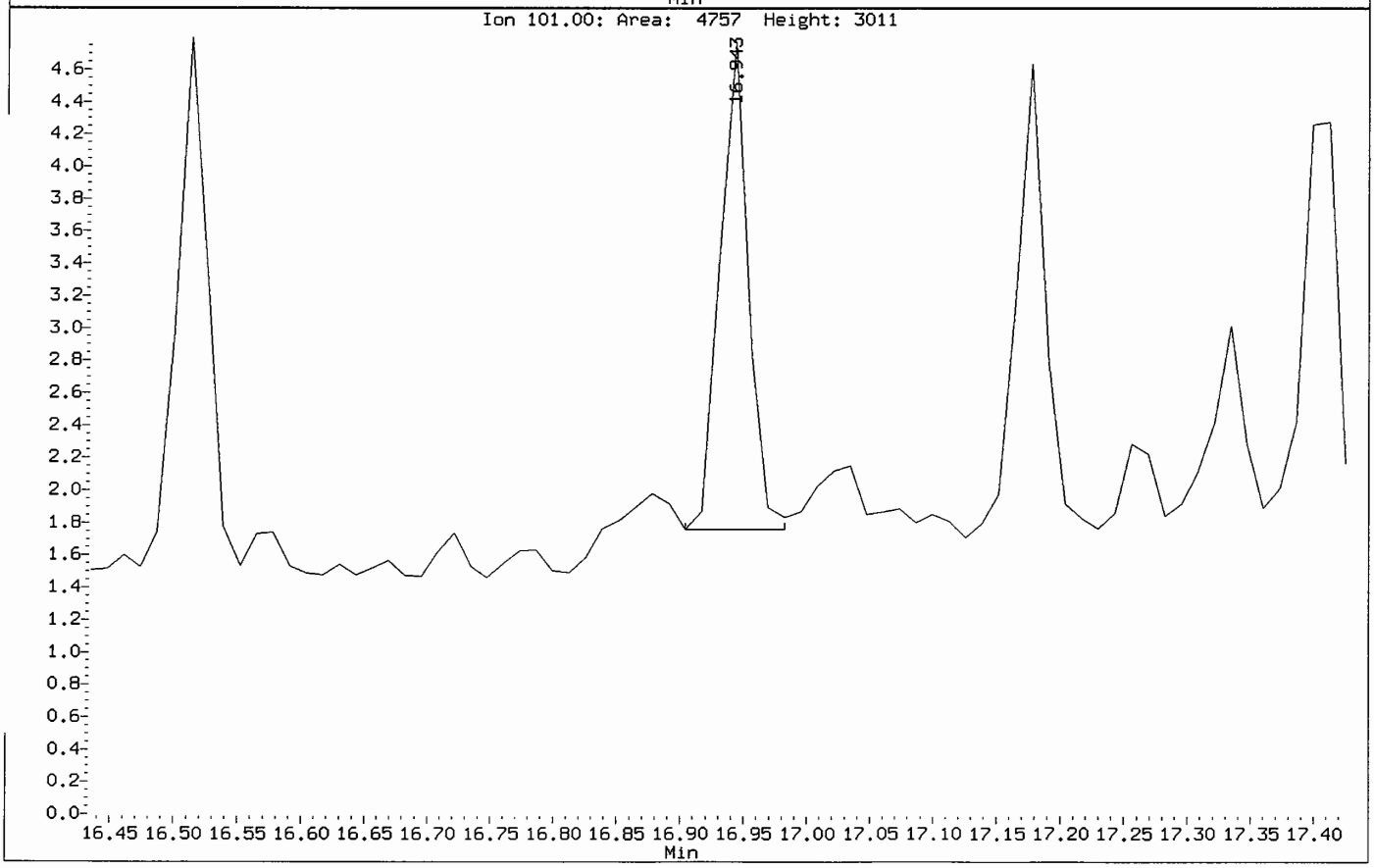




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Injection Date: 27-MAY-2010 09:31
Instrument: 5972hp66.i
Client Sample ID: SS86-0-1

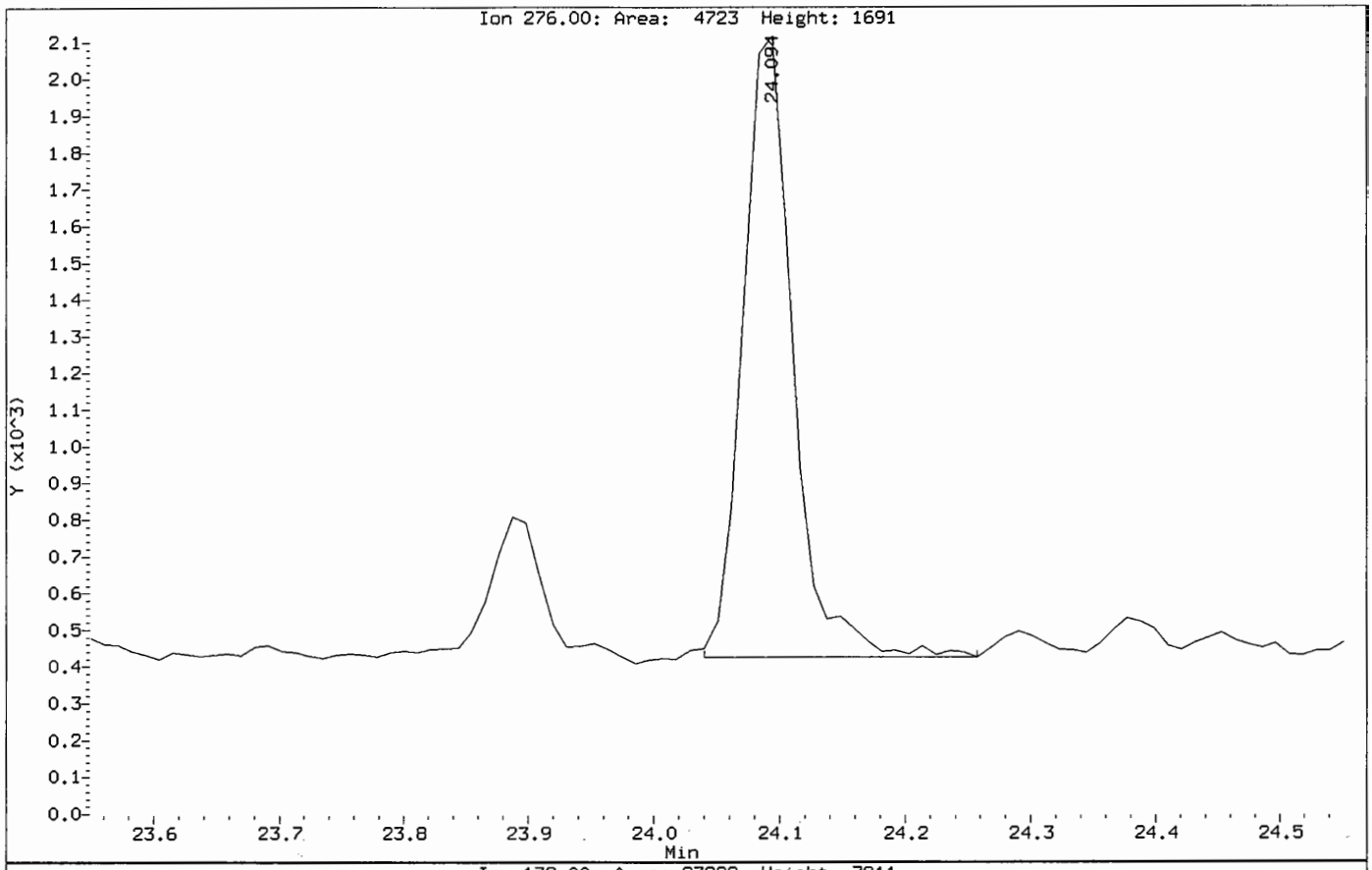
Compound: Pyrene
CAS Number: 129-00-0

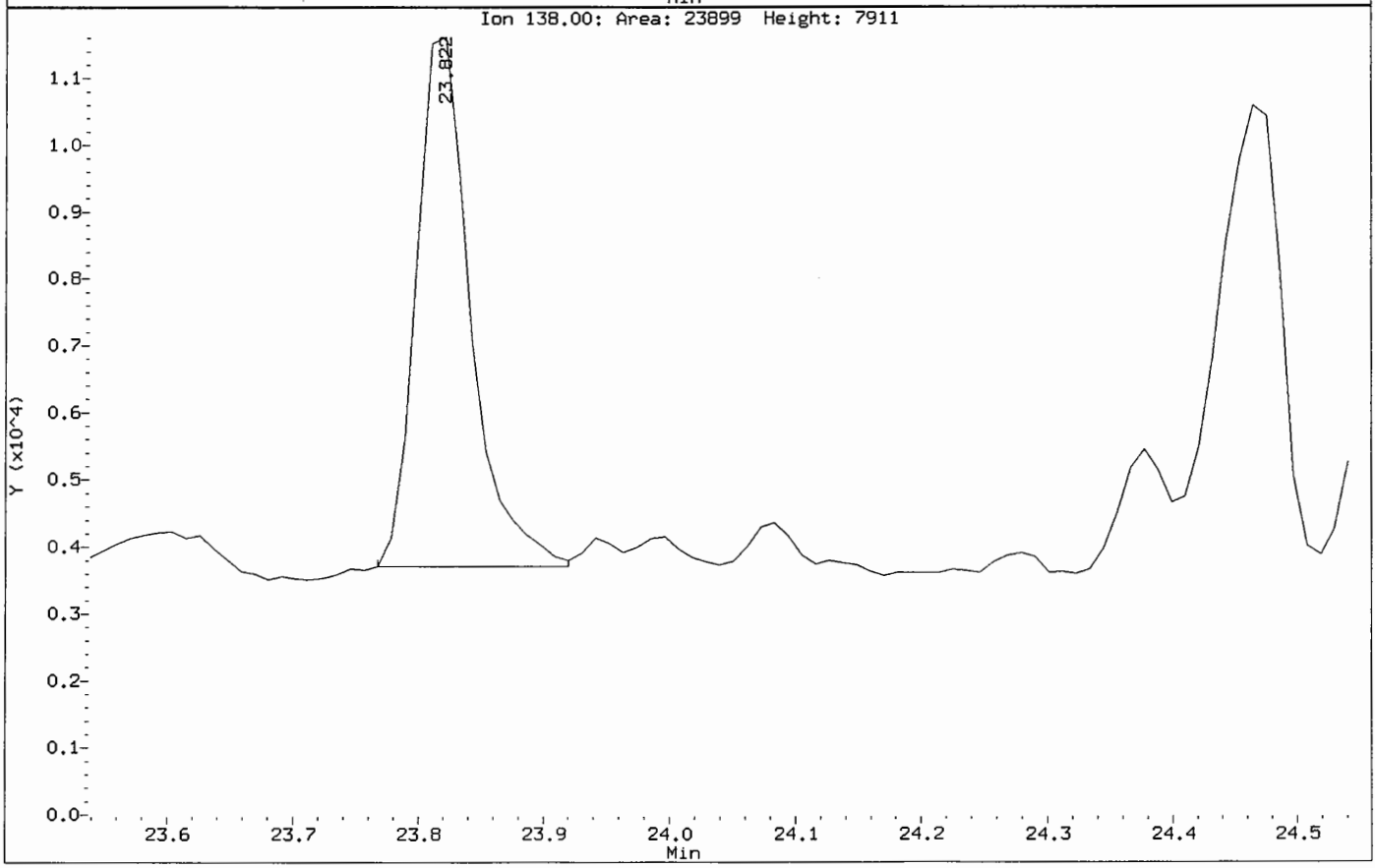




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Injection Date: 27-MAY-2010 09:31
Instrument: 5972hp66.i
Client Sample ID: SS86-0-1

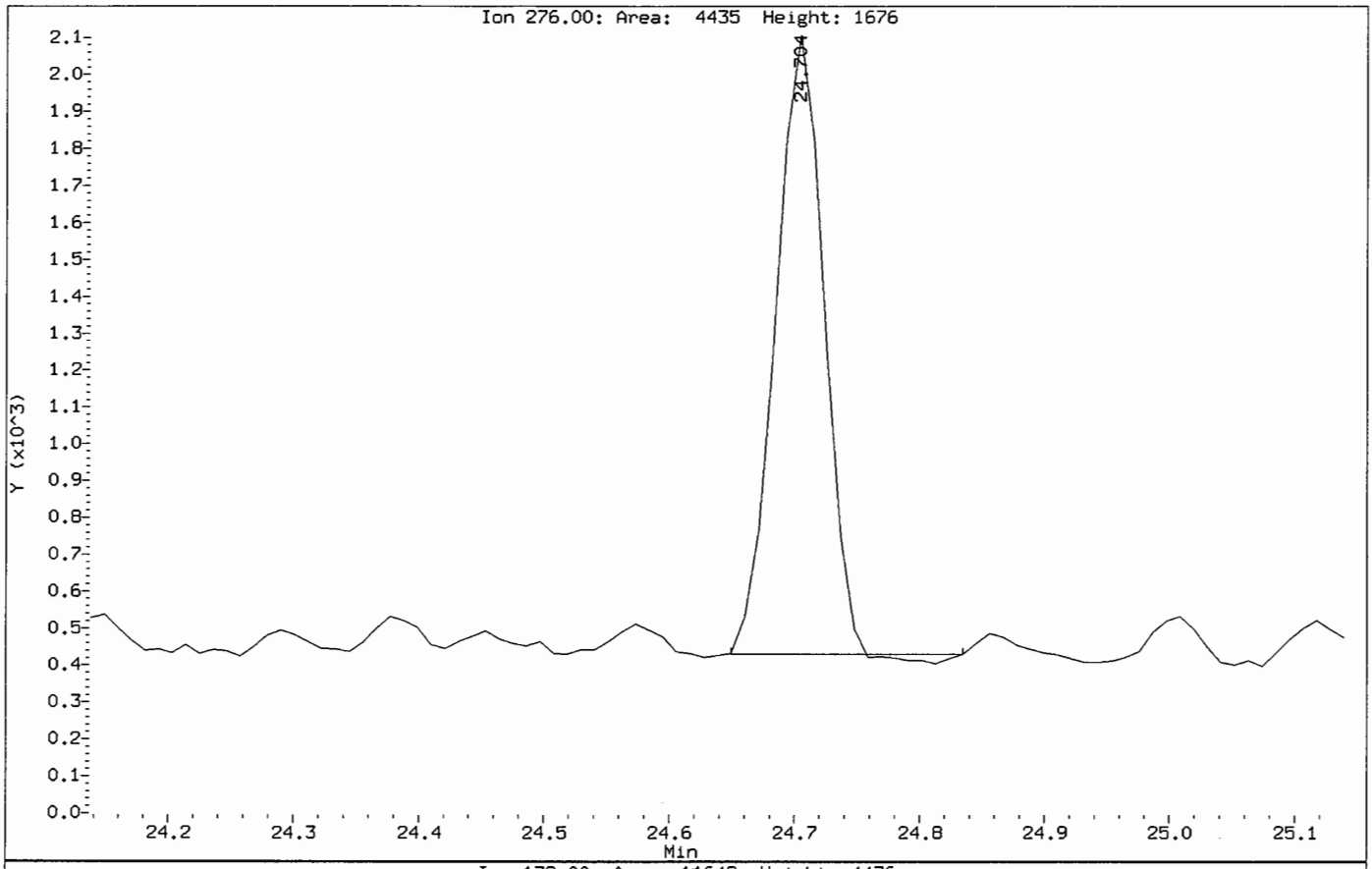
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5

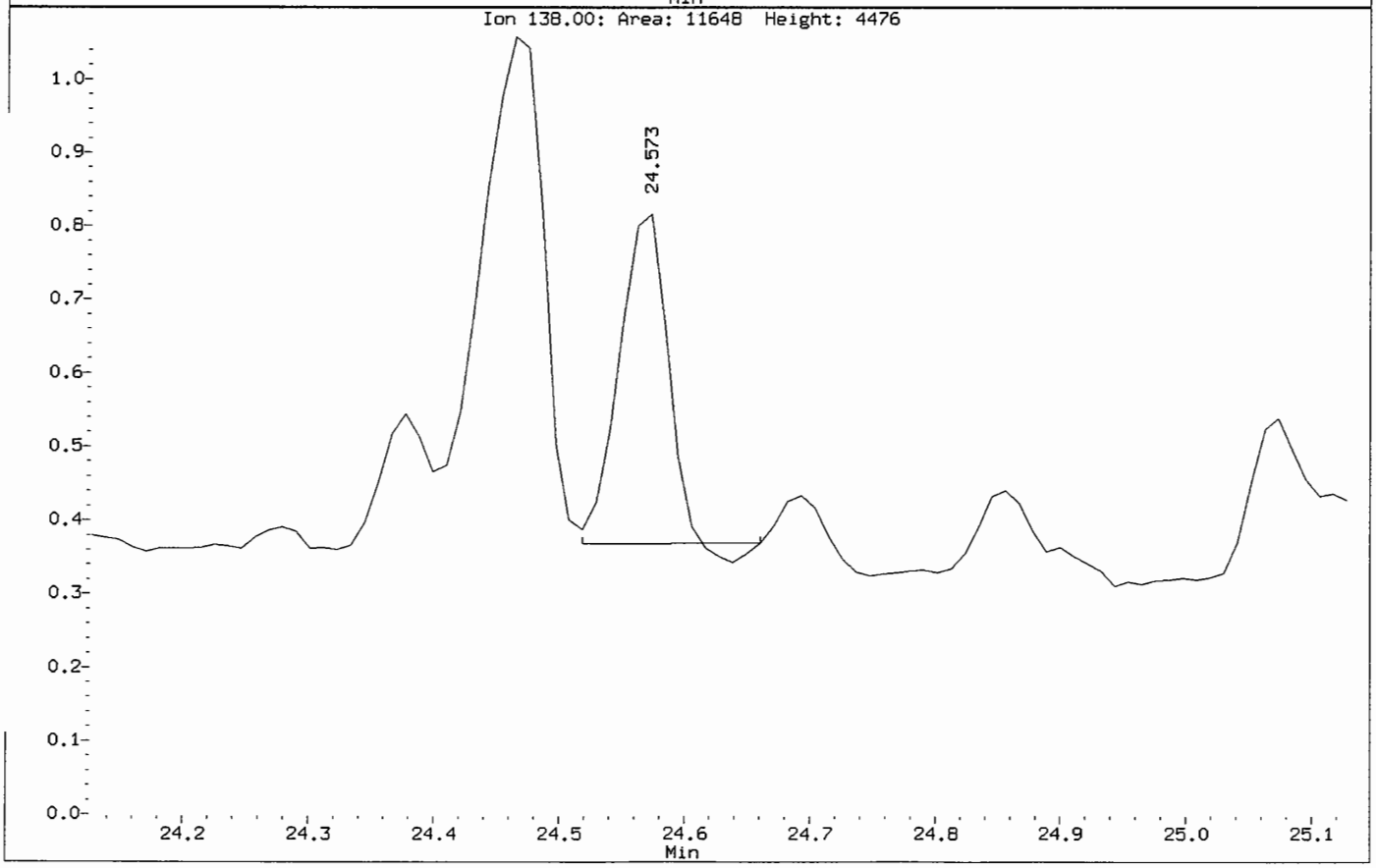




Data File: /chem/5972hp66.i/DS100526C66.b/1005132-11JC66.d
Injection Date: 27-MAY-2010 09:31
Instrument: 5972hp66.i
Client Sample ID: SS86-0-1

Compound: Benzo(g,h,i)perylene
CAS Number: 191-24-2





3. Standards Data

a. Initial Calibration Data (Form VI SV)

b. Continuing Calibration Data (Form VII SV)

a. Initial Calibration Data (Form VI SV)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Within each initial calibration, the standards are in order by level, from lowest to highest.

(1) Chromatograms and quantitation reports for the initial (five-point) calibration.
Spectra not required.

(2) EICPs displaying each manual integration.

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: 5972HP66 Calibration Date(s): 05/25/10 05/25/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0601 0816

LAB FILE ID: RF0.4: 0E25001-CALRF1.2: 0E25001-CALRF3: 0E25001-CAL3C
RF5: 0E25001-CAL4CRF10: 0E25001-CAL5

COMPOUND	RF0.4	RF1.2	RF3	RF5	RF10
Naphthalene	1.336	1.232	1.203	1.227	1.187
2-Methylnaphthalene	1.514	1.368	1.333	1.434	1.510
Acenaphthylene	2.329	2.103	2.170	2.345	2.222
Acenaphthene	1.345	1.283	1.276	1.362	1.278
Fluorene	0.920	0.852	0.902	0.929	1.076
Phenanthrene	1.257	1.224	1.234	1.266	1.254
Anthracene	1.113	1.079	1.108	1.166	1.143
Fluoranthene	1.259	1.240	1.322	1.342	1.468
Pyrene	1.382	1.385	1.435	1.451	1.568
Benzo(a)anthracene	1.047	1.069	1.114	1.124	1.082
Chrysene	1.184	1.172	1.171	1.195	1.165
Benzo(b)fluoranthene	1.264	1.307	1.309	1.344	1.370
Benzo(k)fluoranthene	1.426	1.364	1.448	1.422	1.437
Benzo(a)pyrene	1.103	1.133	1.223	1.243	1.242
Indeno(1,2,3-cd)pyrene	0.982	1.023	1.058	1.106	1.074
Dibenzo(a,h)anthracene	0.975	1.031	1.043	1.076	1.062
Benzo(g,h,i)perylene	1.145	1.149	1.170	1.165	1.183
Nitrobenzene-d5	0.425	0.446	0.430	0.469	0.455
2-Fluorobiphenyl	1.885	2.209	2.161	1.791	2.388
Terphenyl-d14	0.709	0.705	0.741	0.724	0.755

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

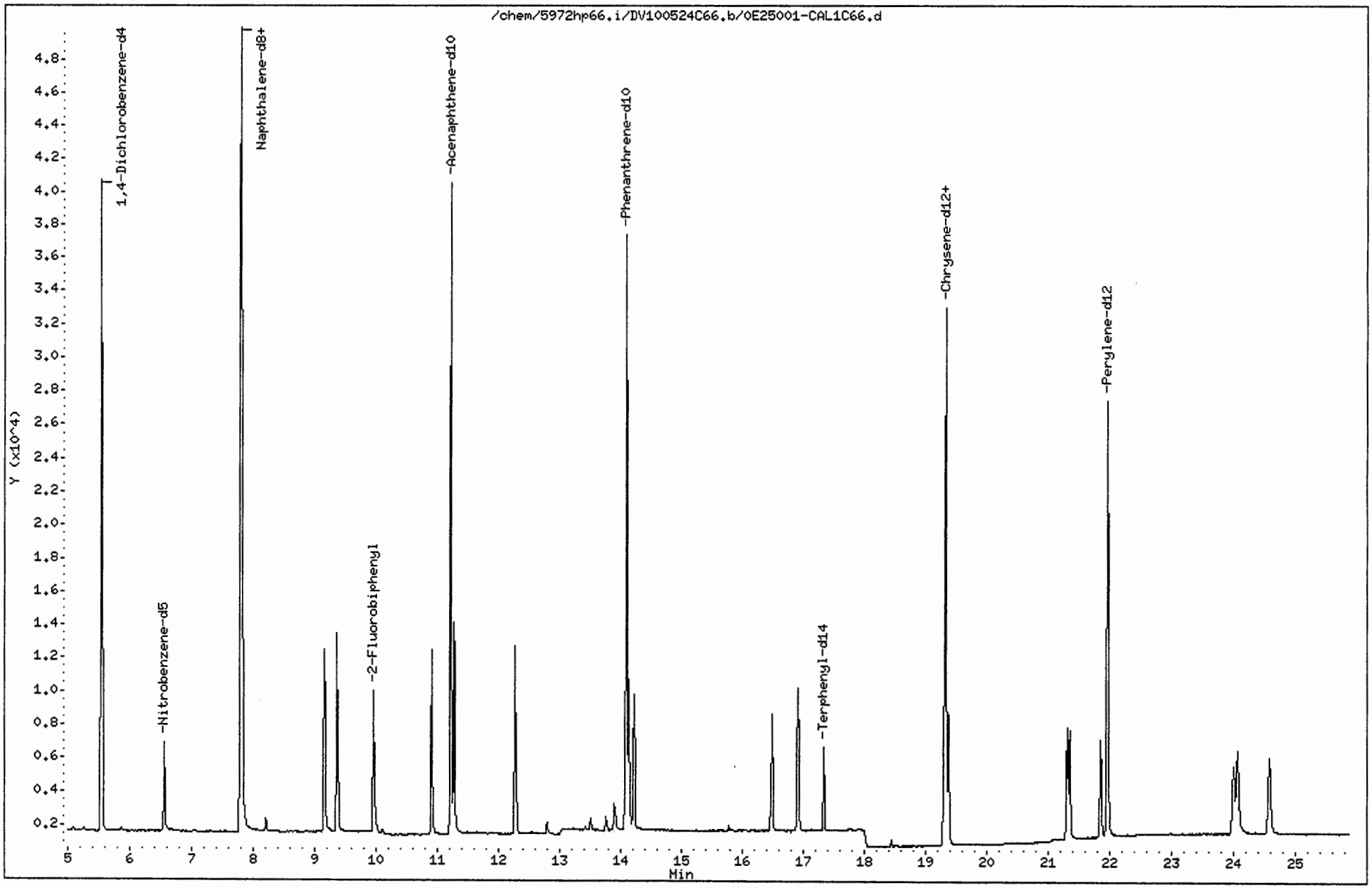
Instrument ID: 5972HP66 Calibration Date(s): 05/25/10 05/25/10

Column: RTX-5MS ID: 0.32 (mm) Calibration Time(s): 0601 0816

COMPOUND	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	AVRG	1.23709039	4.686	15.000
2-Methylnaphthalene	AVRG	1.43192718	5.709	15.000
Acenaphthylene	AVRG	2.23404611	4.628	15.000
Acenaphthene	AVRG	1.30892901	3.163	30.000
Fluorene	AVRG	0.93602321	8.970	15.000
Phenanthrene	AVRG	1.24712484	1.393	15.000
Anthracene	AVRG	1.12176747	3.022	15.000
Fluoranthene	AVRG	1.32618091	6.795	30.000
Pyrene	AVRG	1.44424098	5.249	15.000
Benzo(a)anthracene	AVRG	1.08720605	2.923	15.000
Chrysene	AVRG	1.17758875	1.029	15.000
Benzo(b)fluoranthene	AVRG	1.31897490	3.040	15.000
Benzo(k)fluoranthene	AVRG	1.41939457	2.307	15.000
Benzo(a)pyrene	AVRG	1.18861343	5.540	30.000
Indeno(1,2,3-cd)pyrene	AVRG	1.04861310	4.548	15.000
Dibenzo(a,h)anthracene	AVRG	1.03728761	3.747	15.000
Benzo(g,h,i)perylene	AVRG	1.16224716	1.330	15.000
Nitrobenzene-d5	AVRG	0.44503818	4.056	15.000
2-Fluorobiphenyl	AVRG	2.08703947	11.716	15.000
Terphenyl-d14	AVRG	0.72668507	2.913	15.000

FORM VI SV

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Date : 25-MAY-2010 07:09
Client ID: SSTD0.40Y2
Instrument: 5972hp66.i
Sample Info: SSTD0.40Y2:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Lab Smp Id: 0E25001-CAL1 Client Smp ID: SSTD0.40Y2
Inj Date : 25-MAY-2010 07:09
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD0.40Y2:2743
Misc Info : SSTD0.40Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 07:09 Cal File: 0E25001-CAL1C66.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	21673	2.00000	
*	2 Naphthalene-d8	136	7.799	7.802	(1.000)	68713	2.00000	
*	3 Acenaphthene-d10	164	11.217	11.218	(1.000)	28135	2.00000	
*	4 Phenanthrene-d10	188	14.088	14.087	(1.000)	47752	2.00000	
*	5 Chrysene-d12	240	19.318	19.319	(1.000)	42145	2.00000	
*	6 Perylene-d12	264	21.950	21.949	(1.000)	36854	2.00000	
$	9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	5841	0.40000	0.40
$	10 2-Fluorobiphenyl	172	9.963	9.952	(0.888)	10609	0.40000	0.37
$	12 Terphenyl-d14	244	17.334	17.333	(0.897)	5977	0.40000	0.39
	13 Naphthalene	128	7.825	7.828	(1.003)	18354	0.40000	0.42
	15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	8519	0.40000	0.43
	17 Acenaphthylene	152	10.904	10.905	(0.972)	13107	0.40000	0.41
	18 Acenaphthene	154	11.269	11.270	(1.005)	7568	0.40000	0.41
	21 Fluorene	166	12.273	12.274	(0.871)	8792	0.40000	0.40
	25 Phenanthrene	178	14.127	14.126	(1.003)	12002	0.40000	0.40

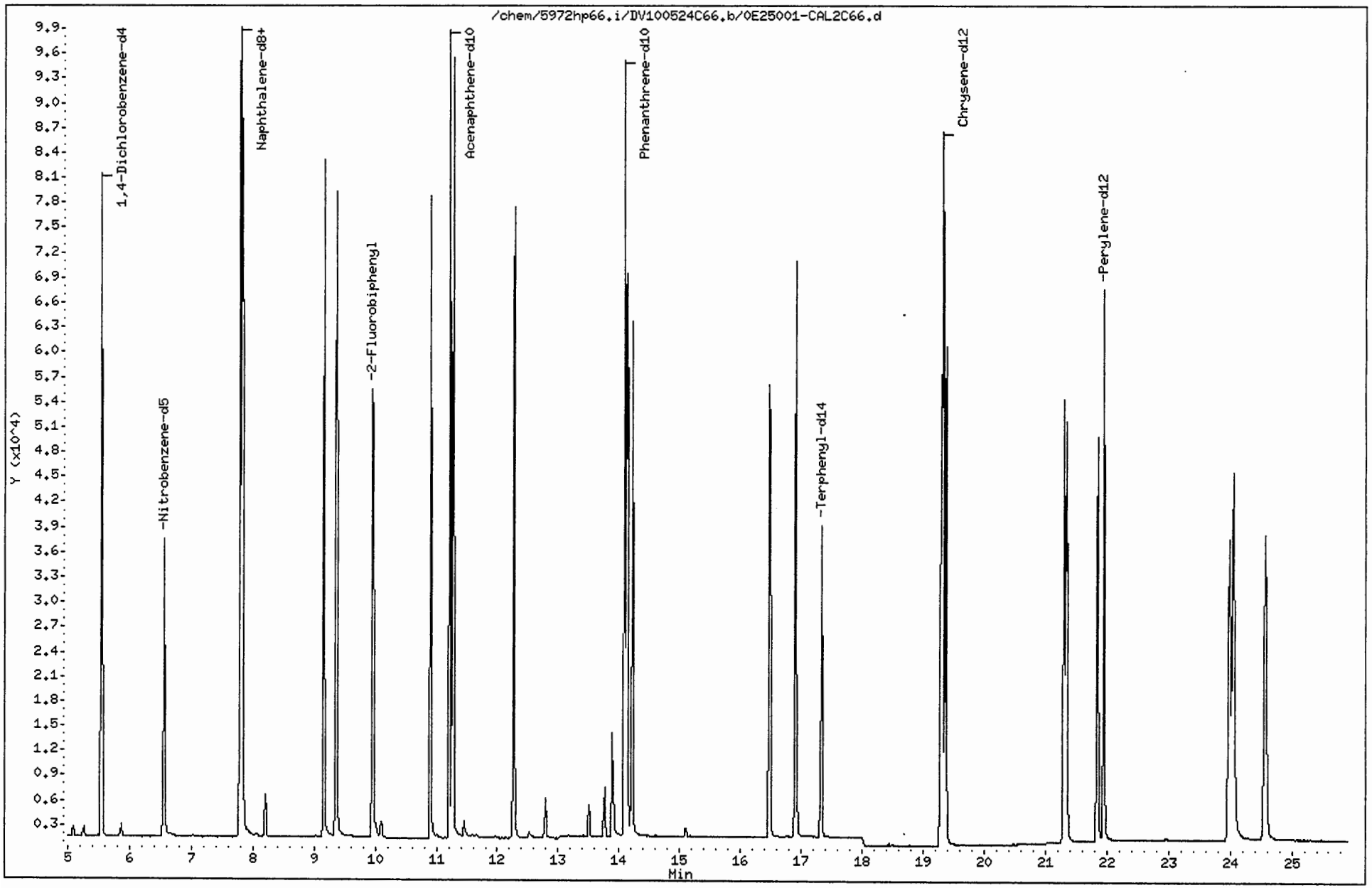
TMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL1C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	10627	0.40000	0.40
27 Fluoranthene	202	16.487	16.486	(0.853)	10612	0.40000	0.39
28 Pyrene	202	16.904	16.903	(0.875)	11647	0.40000	0.39
29 Benzo(a)anthracene	228	19.292	19.293	(0.999)	8829	0.40000	0.39
30 Chrysene	228	19.370	19.371	(1.003)	9984	0.40000	0.40
31 Benzo(b)fluoranthene	252	21.297	21.296	(0.970)	9319	0.40000	0.39
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	10515	0.40000	0.40
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	8130	0.40000	0.38
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	7238	0.40000	0.39
35 Dibenzo(a,h)anthracene	278	24.061	24.061	(1.096)	7186	0.40000	0.39
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	8441	0.40000	0.40

DMF 5/26/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Date : 25-MAY-2010 08:16
Client ID: SSTD1.20Y2
Instrument: 5972hp66.i
Sample Info: SSTD1.20Y2:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Lab Smp Id: 0E25001-CAL2 Client Smp ID: SSTD1.20Y2
Inj Date : 25-MAY-2010 08:16
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD1.20Y2:2743
Misc Info : SSTD1.20Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	42756	2.00000	
*	2 Naphthalene-d8	136	7.799	7.802	(1.000)	151009	2.00000	
*	3 Acenaphthene-d10	164	11.217	11.218	(1.000)	69374	2.00000	
*	4 Phenanthrene-d10	188	14.088	14.087	(1.000)	121694	2.00000	
*	5 Chrysene-d12	240	19.318	19.319	(1.000)	108693	2.00000	
*	6 Perylene-d12	264	21.950	21.949	(1.000)	94345	2.00000	
$	9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	40366	1.20000	1.2
$	10 2-Fluorobiphenyl	172	9.963	9.952	(0.888)	91960	1.20000	1.3
$	12 Terphenyl-d14	244	17.334	17.333	(0.897)	45962	1.20000	1.2
	13 Naphthalene	128	7.825	7.828	(1.003)	111671	1.20000	1.2
	15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	56927	1.20000	1.1
	17 Acenaphthylene	152	10.904	10.905	(0.972)	87547	1.20000	1.1
	18 Acenaphthene	154	11.269	11.270	(1.005)	53389	1.20000	1.2
	21 Fluorene	166	12.273	12.274	(0.871)	62225	1.20000	1.1
	25 Phenanthrene	178	14.127	14.126	(1.003)	89360	1.20000	1.2

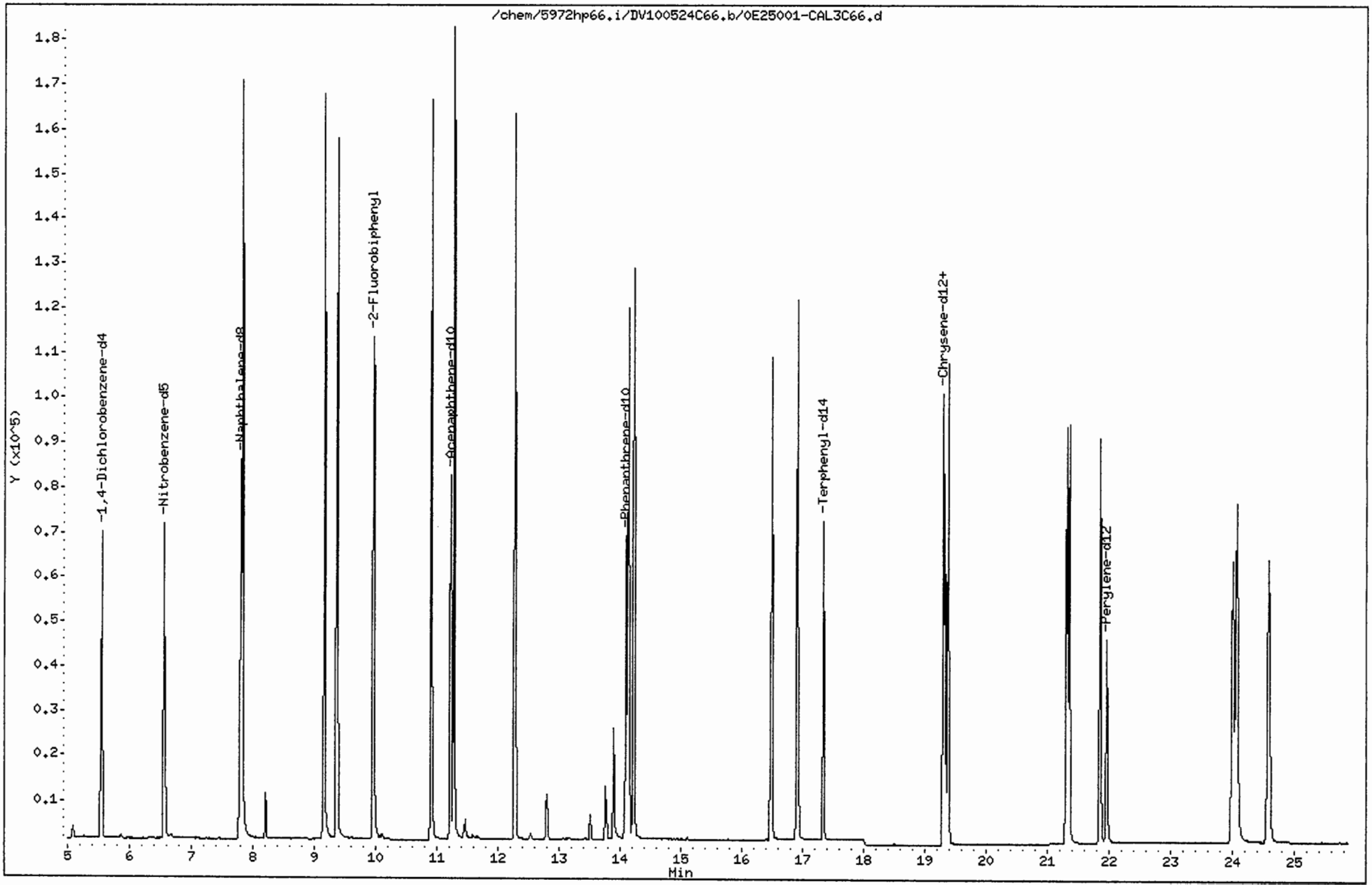
TMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL2C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	78760	1.20000	1.2
27 Fluoranthene	202	16.486	16.486	(0.853)	80846	1.20000	1.1
28 Pyrene	202	16.904	16.903	(0.875)	90310	1.20000	1.2
29 Benzo(a)anthracene	228	19.291	19.293	(0.999)	69695	1.20000	1.2
30 Chrysene	228	19.370	19.371	(1.003)	76404	1.20000	1.2
31 Benzo(b)fluoranthene	252	21.296	21.296	(0.970)	74012	1.20000	1.2
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	77185	1.20000	1.2
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	64130	1.20000	1.1
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	57928	1.20000	1.2
35 Dibenzo(a,h)anthracene	278	24.050	24.061	(1.096)	58355	1.20000	1.2
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	65035	1.20000	1.2

TNR 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Date : 25-MAY-2010 06:01
Client ID: SSTD3.00Y2
Instrument: 5972hp66.i
Sample Info: SSTD3.00Y2:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Lab Smp Id: 0E25001-CAL3 Client Smp ID: SSTD3.00Y2
Inj Date : 25-MAY-2010 06:01
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00Y2:2743
Misc Info : SSTD3.00Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.547	5.547	(1.000)	37182	2.00000	
*	2 Naphthalene-d8	136	7.802	7.802	(1.000)	125435	2.00000	
*	3 Acenaphthene-d10	164	11.218	11.218	(1.000)	56129	2.00000	
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	92434	2.00000	
*	5 Chrysene-d12	240	19.319	19.319	(1.000)	75031	2.00000	
*	6 Perylene-d12	264	21.949	21.949	(1.000)	62246	2.00000	
$	9 Nitrobenzene-d5	82	6.563	6.563	(0.841)	80993	3.00000	2.9
$	10 2-Fluorobiphenyl	172	9.952	9.952	(0.887)	181927	3.00000	3.1
$	12 Terphenyl-d14	244	17.333	17.333	(0.897)	83431	3.00000	3.1
	13 Naphthalene	128	7.828	7.828	(1.003)	226427	3.00000	2.9
	15 2-Methylnaphthalene	141	9.157	9.157	(0.816)	112252	3.00000	2.8
	17 Acenaphthylene	152	10.905	10.905	(0.972)	182733	3.00000	2.9
	18 Acenaphthene	154	11.270	11.270	(1.005)	107472	3.00000	2.9
	21 Fluorene	166	12.274	12.274	(0.871)	125051	3.00000	2.9
	25 Phenanthrene	178	14.126	14.126	(1.003)	171164	3.00000	3.0

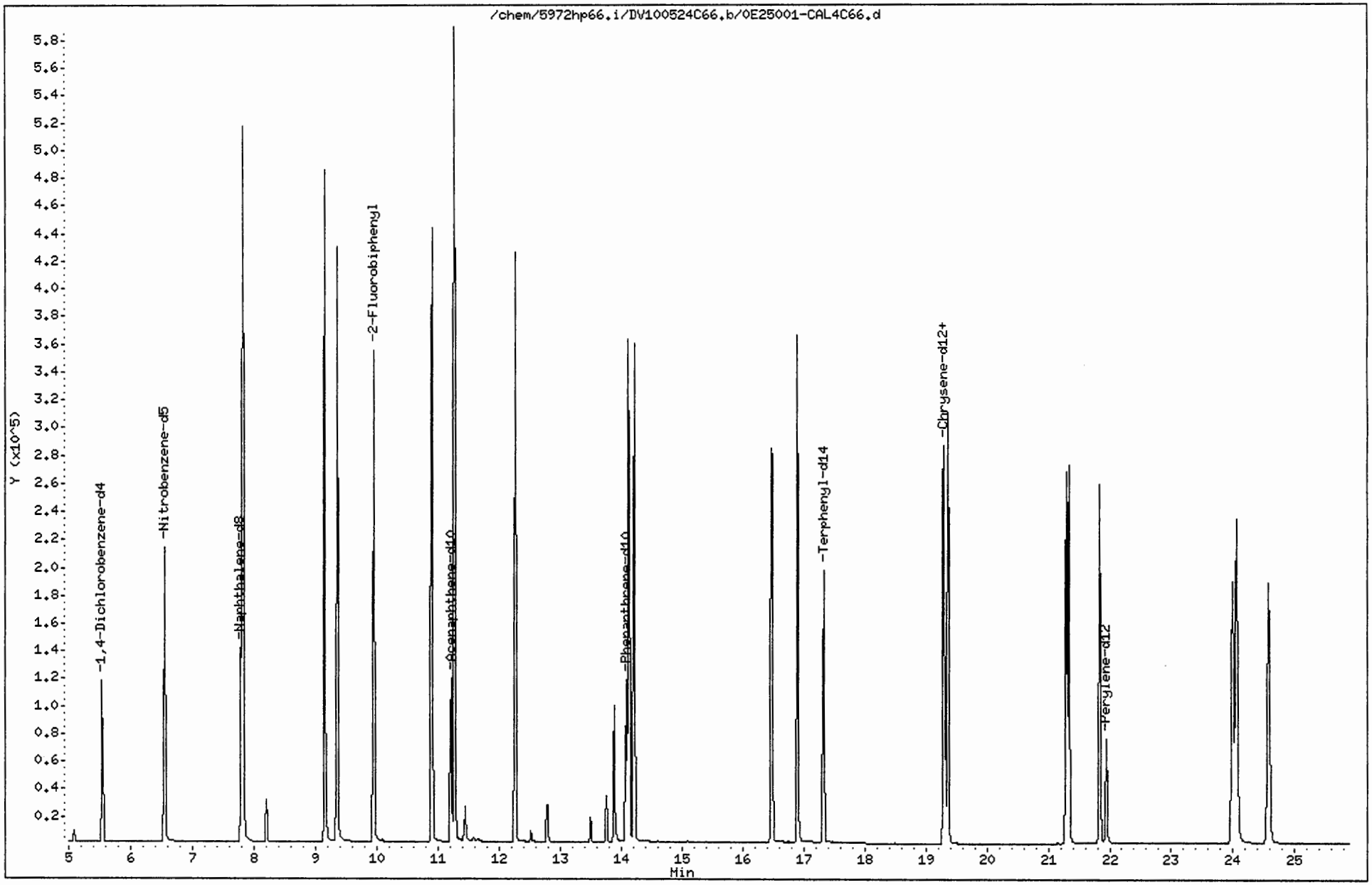
5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL3C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.217	14.217	(1.009)	153579	3.00000	3.0
27 Fluoranthene	202	16.486	16.486	(0.853)	148807	3.00000	3.0
28 Pyrene	202	16.903	16.903	(0.875)	161512	3.00000	3.0
29 Benzo(a)anthracene	228	19.293	19.293	(0.999)	125381	3.00000	3.1
30 Chrysene	228	19.371	19.371	(1.003)	131836	3.00000	3.0
31 Benzo(b)fluoranthene	252	21.296	21.296	(0.970)	122234	3.00000	3.0
32 Benzo(k)fluoranthene	252	21.339	21.339	(0.972)	135163	3.00000	3.1
33 Benzo(a)pyrene	252	21.840	21.840	(0.995)	114164	3.00000	3.1
34 Indeno(1,2,3-cd)pyrene	276	23.995	23.995	(1.093)	98749	3.00000	3.0
35 Dibenzo(a,h)anthracene	278	24.061	24.061	(1.096)	97384	3.00000	3.0
36 Benzo(g,h,i)perylene	276	24.572	24.572	(1.119)	109200	3.00000	3.0

DMP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Date : 25-MAY-2010 07:43
Client ID: SSTD5.00Y2
Instrument: 5972hp66.i
Sample Info: SSTD5.00Y2:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Lab Smp Id: 0E25001-CAL4 Client Smp ID: SSTD5.00Y2
Inj Date : 25-MAY-2010 07:43
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD5.00Y2:2743
Misc Info : SSTD5.00Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 07:43 Cal File: 0E25001-CAL4C66.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.543	5.547	(1.000)	63425	2.00000	
*	2 Naphthalene-d8	136	7.785	7.802	(1.000)	216429	2.00000	
*	3 Acenaphthene-d10	164	11.218	11.218	(1.000)	91925	2.00000	
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	154139	2.00000	
*	5 Chrysene-d12	240	19.318	19.319	(1.000)	128222	2.00000	
*	6 Perylene-d12	264	21.951	21.949	(1.000)	108520	2.00000	
$	9 Nitrobenzene-d5	82	6.547	6.563	(0.841)	254021	5.00000	5.3
$	10 2-Fluorobiphenyl	172	9.949	9.952	(0.887)	411699	5.00000	4.4
$	12 Terphenyl-d14	244	17.333	17.333	(0.897)	231964	5.00000	4.9
	13 Naphthalene	128	7.824	7.828	(1.005)	663758	5.00000	5.0
	15 2-Methylnaphthalene	141	9.154	9.157	(0.816)	329678	5.00000	5.0
	17 Acenaphthylene	152	10.905	10.905	(0.972)	538984	5.00000	5.2
	18 Acenaphthene	154	11.270	11.270	(1.005)	313112	5.00000	5.2
	21 Fluorene	166	12.274	12.274	(0.871)	357974	5.00000	4.9
	25 Phenanthrene	178	14.126	14.126	(1.003)	487877	5.00000	5.1

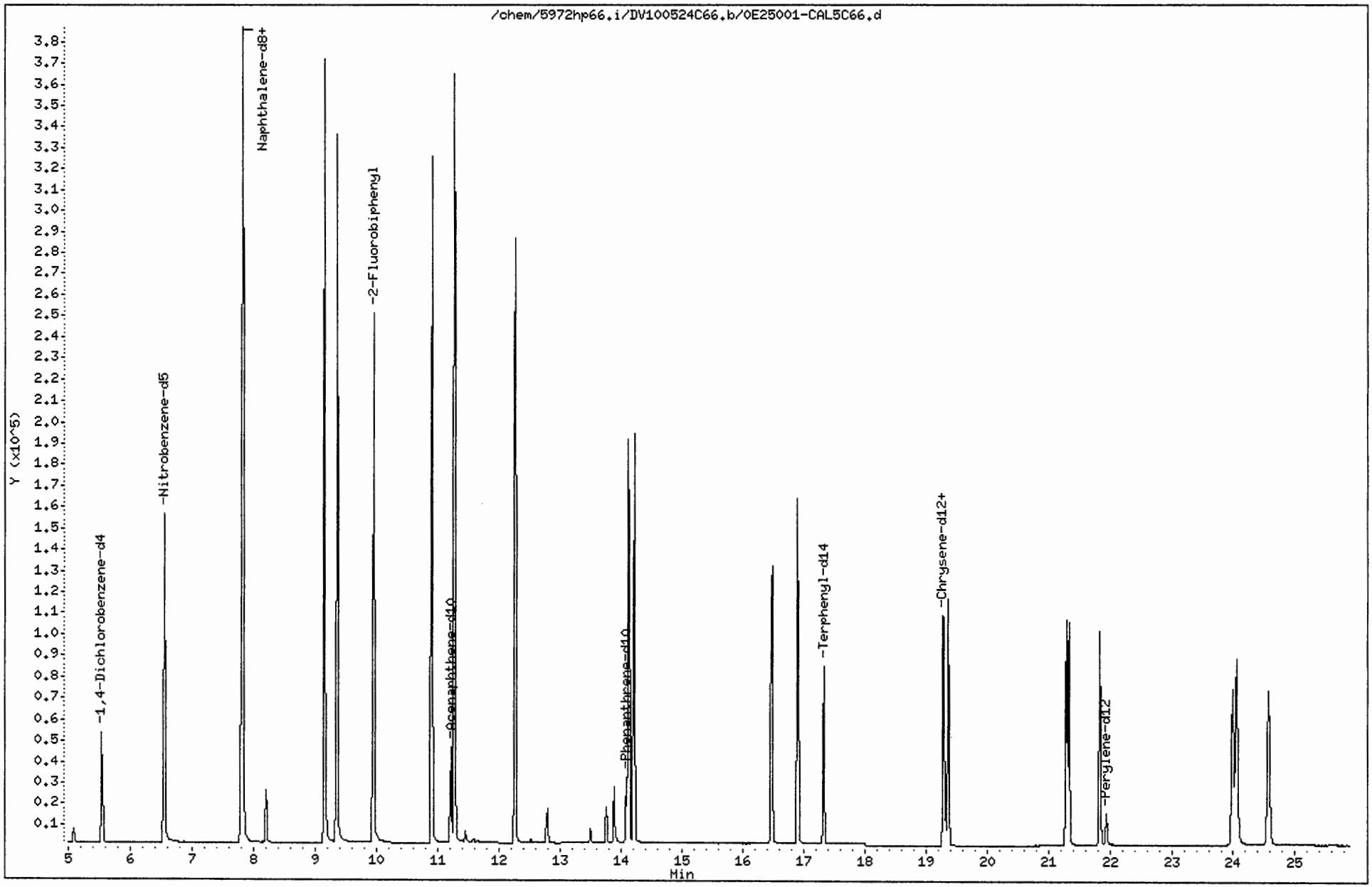
TNP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL4C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.217	14.217	(1.009)	449448	5.00000	5.1
27 Fluoranthene	202	16.486	16.486	(0.853)	430074	5.00000	5.0
28 Pyrene	202	16.903	16.903	(0.875)	465169	5.00000	5.0
29 Benzo(a)anthracene	228	19.292	19.293	(0.999)	360361	5.00000	5.1
30 Chrysene	228	19.371	19.371	(1.003)	383149	5.00000	5.1
31 Benzo(b)fluoranthene	252	21.298	21.296	(0.970)	364676	5.00000	5.1
32 Benzo(k)fluoranthene	252	21.341	21.339	(0.972)	385853	5.00000	5.0
33 Benzo(a)pyrene	252	21.842	21.840	(0.995)	337158	5.00000	5.2
34 Indeno(1,2,3-cd)pyrene	276	23.997	23.995	(1.093)	300043	5.00000	5.2
35 Dibenzo(a,h)anthracene	278	24.063	24.061	(1.096)	291827	5.00000	5.2
36 Benzo(g,h,i)perylene	276	24.574	24.572	(1.119)	315969	5.00000	5.0

DJP
5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Date : 25-MAY-2010 06:35
Client ID: SSTD10.0Y2
Instrument: 5972hp66.i
Sample Info: SSTD10.0Y2:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Report Date: 25-May-2010 09:02

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Lab Smp Id: 0E25001-CAL5 Client Smp ID: SSTD10.0Y2
Inj Date : 25-MAY-2010 06:35
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD10.0Y2:2743
Misc Info : SSTD10.0Y2
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DV100524C66.b/SIM_8270Cv2DOD.m
Meth Date : 25-May-2010 08:59 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 06:35 Cal File: 0E25001-CAL5C66.d
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.544	5.547	(1.000)	29337	2.00000	
*	2 Naphthalene-d8	136	7.799	7.802	(1.000)	86160	2.00000	
*	3 Acenaphthene-d10	164	11.217	11.218	(1.000)	32564	2.00000	
*	4 Phenanthrene-d10	188	14.087	14.087	(1.000)	41430	2.00000	
*	5 Chrysene-d12	240	19.319	19.319	(1.000)	26559	2.00000	
*	6 Perylene-d12	264	21.950	21.949	(1.000)	21293	2.00000	
$	9 Nitrobenzene-d5	82	6.561	6.563	(0.841)	195887	10.0000	10(A)
$	10 2-Fluorobiphenyl	172	9.950	9.952	(0.887)	388859	10.0000	11(A)
$	12 Terphenyl-d14	244	17.334	17.333	(0.897)	100210	10.0000	10(A)
	13 Naphthalene	128	7.825	7.828	(1.003)	511461	10.0000	9.6
	15 2-Methylnaphthalene	141	9.155	9.157	(0.816)	245895	10.0000	10(A)
	17 Acenaphthylene	152	10.904	10.905	(0.972)	361779	10.0000	9.9
	18 Acenaphthene	154	11.269	11.270	(1.005)	208101	10.0000	9.8
	21 Fluorene	166	12.272	12.274	(0.871)	222986	10.0000	11(A)
	25 Phenanthrene	178	14.126	14.126	(1.003)	259875	10.0000	10(A)

DAP 5/25/10

Data File: /chem/5972hp66.i/DV100524C66.b/0E25001-CAL5C66.d
Report Date: 25-May-2010 09:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.218	14.217	(1.009)	236864	10.0000	10(A)
27 Fluoranthene	202	16.486	16.486	(0.853)	194996	10.0000	11(A)
28 Pyrene	202	16.904	16.903	(0.875)	208279	10.0000	11(A)
29 Benzo(a)anthracene	228	19.293	19.293	(0.999)	143641	10.0000	10(A)
30 Chrysene	228	19.371	19.371	(1.003)	154738	10.0000	9.9
31 Benzo(b)fluoranthene	252	21.297	21.296	(0.970)	145830	10.0000	10(A)
32 Benzo(k)fluoranthene	252	21.340	21.339	(0.972)	152992	10.0000	10
33 Benzo(a)pyrene	252	21.841	21.840	(0.995)	132196	10.0000	10(A)
34 Indeno(1,2,3-cd)pyrene	276	23.996	23.995	(1.093)	114361	10.0000	10(A)
35 Dibenzo(a,h)anthracene	278	24.050	24.061	(1.096)	113061	10.0000	10(A)
36 Benzo(g,h,i)perylene	276	24.573	24.572	(1.119)	125942	10.0000	10(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TM 5/25/10

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/25/10 INITIAL TIME OF TUNE 0559 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1759
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAHSIM DOD SIM: (Y/N)
PREVENTIVE MAINTENANCE Front/Liner/Septa

	SEQUENCE#	REJECTED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	0E25001		ASCANC66	✓	5/25/10	0527	SSTD3.0D	—	2µl	2743	SCD=LCD
2	DV100525C		N/A	✓		0559	FC43	—	N/A		
3			0E25001-CAL3C66	✓		0601	SSTD3.0Y2	—	2µl		0E18001 8/18/10
4			-CAL5C66	✓		0635	10.0Y2	—			10
5			-CAL1C66	✓		0709	0.40Y2	—			05
6			-CAL4C66	✓		0743	5.00Y2	—			09
7			-CAL2C66	✓		0816	1.20Y2	—			06
8			1005131-02JC66	✓		0856	EB051310-SB	1005131			
9		✓	03JC66	IL		0930	BBG-FB051310				
10			03J2C66	✓		1013		VARIOUS			
11			0052402-BLKIC66	✓		1046	SBLKCB	1005151			TMP 5/25/10
12		✓	BS1C66	SFV SL		1120	SCBLCS	VARIOUS			
13			BSD1C66	✓		1155	SCBLCSD	VARIOUS			
14		✓	1005131-04C66	1H		1228	BBG-FB051810	1005131			
15			1005131-05C66	✓		1302	EB051810-SS	1005131			
16		✓	1005158-01C66	1H		1336	AOC8-MW-35	1005158			
17		✓	02C66	1H		1410	AOC8-MW-35D				
18		✓	01JC66	1H		1445	AOC8-MW-35				JS
19			02JC66	✓		1518	AOC8-MW-~~36~~35D				
20		✓	03 C66	1H		1552	Used 8-25-10 ~~ERO51910~~ AOC8-MW-36				
21		✓	04 C66	1H		1626	ERO51910				
22		✓	05C66	1H		1700	AOC8-MW-37				
23			0052402-BS1JC66	✓		1734	SCBLCS	Various			
24			1005131-04JC66	✓		1808	BBG-FB051810	1005131			

OWS 05-25-10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: See Comments
Internal STD Lot#/Exp. Date: 040 0E18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/15
Column Type: RTX 5MS 0.32m

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TMP DATE 5/25/10
Supervisor/Manager Review: TMP pages 3060 to 3080 Date 5/25/10

b. Continuing Calibration Data (Form VII SV)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

(1) Chromatograms and quantitation reports for all continuing (12-hour) calibrations.
Spectra not required.

(2) EICPs displaying each manual integration.

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: 5972HP66 Calibration Date: 05/25/10 Time: 1842

Lab File ID: 0E25012-CCV1A6 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 0601 0816

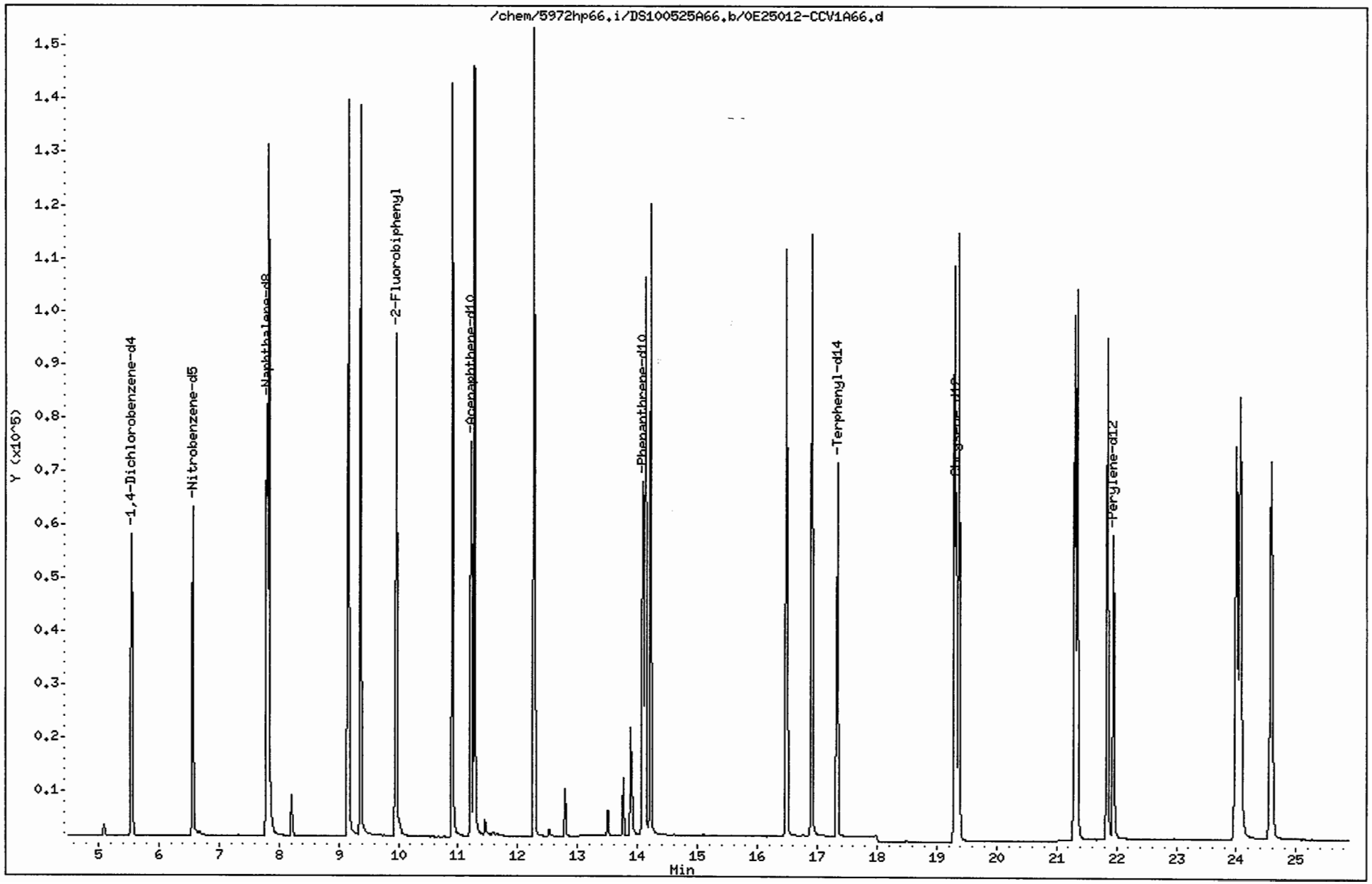
GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.1463900	0.01	-7.32	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.2680212	0.01	-11.45	50.00	AVRG
Acenaphthylene	2.2340000	2.0224530	0.01	-9.47	50.00	AVRG
Acenaphthene	1.3090000	1.2063859	0.01	-7.84	20.00	AVRG
Fluorene	0.9360000	0.7949120	0.01	-15.07	50.00	AVRG
Phenanthrene	1.2470000	1.1386028	0.01	-8.69	50.00	AVRG
Anthracene	1.1220000	1.0338048	0.01	-7.86	50.00	AVRG
Fluoranthene	1.3260000	1.1479582	0.01	-13.43	20.00	AVRG
Pyrene	1.4440000	1.2732041	0.01	-11.83	50.00	AVRG
Benzo(a)anthracene	1.0870000	1.0166479	0.01	-6.47	50.00	AVRG
Chrysene	1.1770000	1.1051091	0.01	-6.11	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.1462629	0.01	-13.10	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.3341629	0.01	-5.98	50.00	AVRG
Benzo(a)pyrene	1.1890000	1.0756945	0.01	-9.53	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	1.0061216	0.01	-4.09	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.9752954	0.01	-5.95	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	1.0873700	0.01	-6.42	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4106461	0.01	-7.72	50.00	AVRG
2-Fluorobiphenyl	2.0870000	2.0342292	0.01	-2.53	50.00	AVRG
Terphenyl-d14	0.7270000	0.6551856	0.01	-9.88	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100525A66.b/0E25012-CCV1A66.d
Date : 25-MAY-2010 18:42
Client ID: SSTD3.00IL
Sample Info: SSTD3.00IL:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525A66.b/0E25012-CCV1A66.d
Report Date: 03-Jun-2010 10:56

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525A66.b/0E25012-CCV1A66.d
Lab Smp Id: 0E25012-CCV1 Client Smp ID: SSTD3.00IL
Inj Date : 25-MAY-2010 18:42
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IL:2730
Misc Info : SSTD3.00IL
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 10:56 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.548	5.548	(1.000)	32289	2.00000	
* 2 Naphthalene-d8	136	7.803	7.803	(1.000)	112116	2.00000	
* 3 Acenaphthene-d10	164	11.218	11.218	(1.000)	52762	2.00000	
* 4 Phenanthrene-d10	188	14.086	14.086	(1.000)	93685	2.00000	
* 5 Chrysene-d12	240	19.327	19.327	(1.000)	85416	2.00000	
* 6 Perylene-d12	264	21.951	21.951	(1.000)	76342	2.00000	
$ 9 Nitrobenzene-d5	82	6.565	6.565	(0.841)	69060	3.00000	2.8
$ 10 2-Fluorobiphenyl	172	9.967	9.967	(0.888)	160995	3.00000	2.9
$ 12 Terphenyl-d14	244	17.333	17.333	(0.897)	83945	3.00000	2.7
13 Naphthalene	128	7.829	7.829	(1.003)	192793	3.00000	2.8
15 2-Methylnaphthalene	141	9.159	9.159	(0.816)	100355	3.00000	2.7
17 Acenaphthylene	152	10.905	10.905	(0.972)	160063	3.00000	2.7
18 Acenaphthene	154	11.283	11.283	(1.006)	95477	3.00000	2.8
21 Fluorene	166	12.273	12.273	(0.871)	111707	3.00000	2.5
25 Phenanthrene	178	14.139	14.139	(1.004)	160005	3.00000	2.7

6/3/10

Data File: /chem/5972hp66.i/DS100525A66.b/0E25012-CCV1A66.d
Report Date: 03-Jun-2010 10:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.217	14.217	(1.009)	145278	3.00000	2.8
27 Fluoranthene	202	16.485	16.485	(0.853)	147081	3.00000	2.6
28 Pyrene	202	16.916	16.916	(0.875)	163128	3.00000	2.6
29 Benzo(a)anthracene	228	19.292	19.292	(0.998)	130257	3.00000	2.8
30 Chrysene	228	19.370	19.370	(1.002)	141591	3.00000	2.8
31 Benzo(b)fluoranthene	252	21.298	21.298	(0.970)	131262	3.00000	2.6
32 Benzo(k)fluoranthene	252	21.341	21.341	(0.972)	152779	3.00000	2.8
33 Benzo(a)pyrene	252	21.842	21.842	(0.995)	123181	3.00000	2.7
34 Indeno(1,2,3-cd)pyrene	276	23.997	23.997	(1.093)	115214	3.00000	2.9
35 Dibenzo(a,h)anthracene	278	24.062	24.062	(1.096)	111684	3.00000	2.8
36 Benzo(g,h,i)perylene	276	24.585	24.585	(1.120)	124518	3.00000	2.8

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/25/10 INITIAL TIME OF TUNE 1839 SHIFT/S (A) X (B)____ (C)____
TIME TUNE EXPIRES 0639
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH5M SIM: (Y)N
PREVENTIVE MAINTENANCE None

	SEQUENCE#	REJECTED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	0E25012		NA		5/25/10	1839	FC-43	—	NA	2730	SCO=CCO
2	DS100525A66		0E25012-CCV1A66	/	/ /	1842	55TD 3.00 1L	—	2µL		
3		/	1005158-035A66	1H	/ /	1918	A0C8-MW-36	1005158	~~5µL~~ 2µL		JS
4			045A66	/	/ /	1952	ER051910	↓	2µL		
5			055A66	/	/ /	2026	A0C8-MW-37	↓	2µL		
6		/	0051920-BLK1A066	1H SL	/ /	2100	SBLKBP	VARIOUS	2µL		
7		/	-BS1A066	1H	/ /	2134	SBPLCS	↓	↓		
8			-BSD1A066	/	5/26/10 0005		SBPLCSD	↓	↓		
9		/	1005133-01A066	1H	/ /	0039	SS73-0-1	1005133	↓		
10		/	0051920-MS2A066	1H	/ /	0116	SS73-0-1-MS	1005134	↓		
11		/	-MSD2A066	1H	/ /	0219	SS73-0-1-MSD	↓	↓		
12			1005134-01A066	/	/ /	0253	SS02-0-1	↓	↓		
13			-02A066	/	/ /	0327	SS02D-0-1	↓	↓		
14		/	-03A066	1H	/ /	0401	SB02-5-6	↓	↓		
15		/	-04A066	1H	/ /	0503	SB02D-5-6	↓	↓		
16		/	-05A066	1H	/ /	0537	SB05-7-8	↓	↓	↓	
17					/ /						
18					/ /						
19					/ /		MW 5/26/10				
20					/ /						
21					/ /						
22					/ /						
23					/ /						
24					/ /						

DFTPP Lot #/Exp. Date: NA
Calibration STD Lot#/Exp. Date: FullSim 0E18067 8-18-10
Internal STD Lot#/Exp. Date: 040 0E18001 10-2-10
Methylene Chloride Lot#/Exp. Date: J10504 4-21-15
Column Type: FTX-5ms 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TMP DATE 5/26/10

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: 5972HP66 Calibration Date: 05/26/10 Time: 0611

Lab File ID: 0E26002-CCV1C6 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 0601 0816

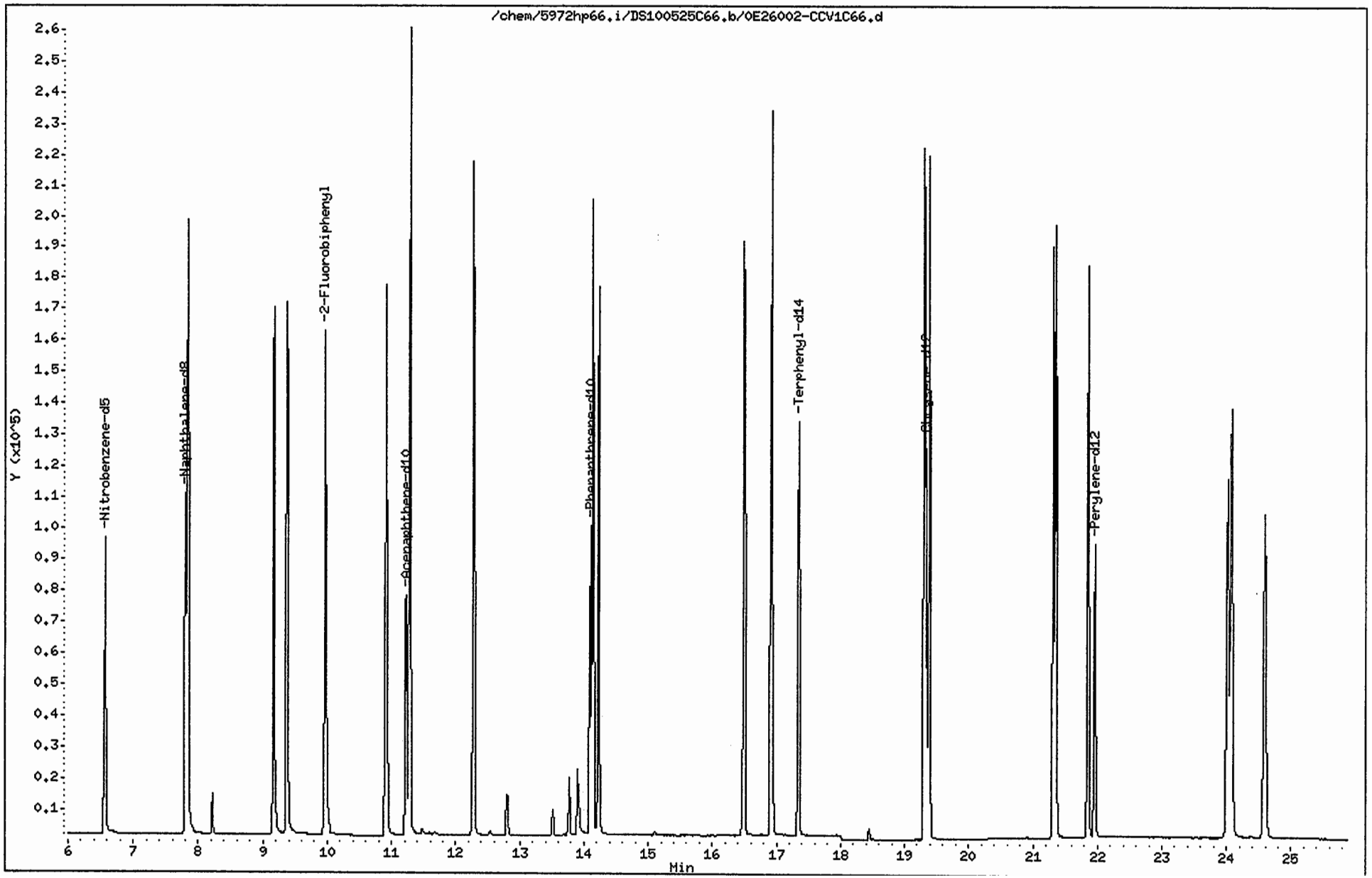
GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.2286063	0.01	-0.68	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.4005638	0.01	-2.20	50.00	AVRG
Acenaphthylene	2.2340000	2.4216285	0.01	8.40	50.00	AVRG
Acenaphthene	1.3090000	1.3608634	0.01	3.96	20.00	AVRG
Fluorene	0.9360000	0.8282759	0.01	-11.51	50.00	AVRG
Phenanthrene	1.2470000	1.2440924	0.01	-0.23	50.00	AVRG
Anthracene	1.1220000	1.1797192	0.01	5.14	50.00	AVRG
Fluoranthene	1.3260000	1.1893801	0.01	-10.30	20.00	AVRG
Pyrene	1.4440000	1.2901560	0.01	-10.65	50.00	AVRG
Benzo(a)anthracene	1.0870000	1.1739355	0.01	8.00	50.00	AVRG
Chrysene	1.1770000	1.1774520	0.01	0.04	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.3306844	0.01	0.88	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.4426426	0.01	1.67	50.00	AVRG
Benzo(a)pyrene	1.1890000	1.2297853	0.01	3.43	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.9538910	0.01	-9.07	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.9103267	0.01	-12.22	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	0.9309432	0.01	-19.88	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4903300	0.01	10.19	50.00	AVRG
2-Fluorobiphenyl	2.0870000	2.2582440	0.01	8.20	50.00	AVRG
Terphenyl-d14	0.7270000	0.6907753	0.01	-4.98	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100525C66.b/0E26002-CCV1C66.d
Date : 26-MAY-2010 06:11
Client ID: SSTD3.00IM
Sample Info: SSTD3.00IM;2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/0E26002-CCV1C66.d
Report Date: 26-May-2010 06:50

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/0E26002-CCV1C66.d
Lab Smp Id: 0E26002-CCV1 Client Smp ID: SSTD3.00IM
Inj Date : 26-MAY-2010 06:11
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IM:2743
Misc Info : SSTD3.00IM
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 26-May-2010 06:49 mweichel Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
*	1 1,4-Dichlorobenzene-d4	152	5.560	5.560	(1.000)	41032	2.00000	
*	2 Naphthalene-d8	136	7.802	7.802	(1.000)	146916	2.00000	
*	3 Acenaphthene-d10	164	11.231	11.231	(1.000)	68609	2.00000	
*	4 Phenanthrene-d10	188	14.101	14.101	(1.000)	134040	2.00000	
*	5 Chrysene-d12	240	19.336	19.336	(1.000)	157952	2.00000	
*	6 Perylene-d12	264	21.961	21.961	(1.000)	126573	2.00000	
$	9 Nitrobenzene-d5	82	6.563	6.563	(0.841)	108056	3.00000	3.3
$	10 2-Fluorobiphenyl	172	9.966	9.966	(0.887)	232405	3.00000	3.2
$	12 Terphenyl-d14	244	17.347	17.347	(0.897)	163664	3.00000	2.9
	13 Naphthalene	128	7.841	7.841	(1.005)	270754	3.00000	3.0
	15 2-Methylnaphthalene	141	9.170	9.170	(0.817)	144138	3.00000	2.9
	17 Acenaphthylene	152	10.918	10.918	(0.972)	249220	3.00000	3.3
	18 Acenaphthene	154	11.283	11.283	(1.005)	140052	3.00000	3.1
	21 Fluorene	166	12.273	12.273	(0.870)	166534	3.00000	2.7
	25 Phenanthrene	178	14.140	14.140	(1.003)	250138	3.00000	3.0

MW 5/26/10

Data File: /chem/5972hp66.i/DS100525C66.b/0E26002-CCV1C66.d
Report Date: 26-May-2010 06:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.231	14.231	(1.009)	237195	3.00000	3.2
27 Fluoranthene	202	16.500	16.500	(0.853)	281799	3.00000	2.7
28 Pyrene	202	16.917	16.917	(0.875)	305675	3.00000	2.7
29 Benzo(a)anthracene	228	19.301	19.301	(0.998)	278139	3.00000	3.2
30 Chrysene	228	19.379	19.379	(1.002)	278972	3.00000	3.0
31 Benzo(b)fluoranthene	252	21.308	21.308	(0.970)	252643	3.00000	3.0
32 Benzo(k)fluoranthene	252	21.352	21.352	(0.972)	273899	3.00000	3.0
33 Benzo(a)pyrene	252	21.853	21.853	(0.995)	233486	3.00000	3.1
34 Indeno(1,2,3-cd)pyrene	276	24.008	24.008	(1.093)	181105	3.00000	2.7
35 Dibenzo(a,h)anthracene	278	24.073	24.073	(1.096)	172834	3.00000	2.6
36 Benzo(g,h,i)perylene	276	24.595	24.595	(1.120)	176748	3.00000	2.4

MW 5/26/10

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/26/10 INITIAL TIME OF TUNE 0609 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1809
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y/N)
PREVENTIVE MAINTENANCE none

	SEQUENCE#	EDITED	FILENAME	EDITED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	0E260002		N/A	/	5/26/10	0609	FC43	—	N/A	2743	SCD=LCD
2	S100525C		0E260002-CCV1010	/	/ /	0611	SSTD3.00IM	—	2µL		
3			0051920-BLK1JC66	/	/ /	0647	SBLKBP	VARIOUS			
4			BS1JC66	/	/ /	0721	SBPLCS	VARIOUS			
5		/	MS2JC66	JF	/ /	0755	SS73-0-1MS	1005133			surr OK
6		/	MSD2JC66	JF	/ /	0829	SS73-0-1MSD				surr OK
7			1005133-01JC66	/	/ /	0903	SS73-0-1				
8			1005131-04J2C66	/	/ /	0937	BBE-FB051810	1005131			
9			1005134-03JC66	/	/ /	1011	SB02-5-6	1005134			
10			1005134-04JC66	/	/ /	1045	SB02D-5-6				
11			1005134-05JC66	/	/ /	1119	SB05-7-8				
12		/	1005132-01C66	1H	/ /	1153	SB85-1.5-2.5	1005132			
13		/	0051920-MS1C66	SPK 1H	/ /	1227	SB85-1.5-2.5MS				prepped wrong
14		/	-MSD1C66	1H	/ /	1301	SB85-1.5-2.5MSD				
15			-MS1JC66	/	/ /	1335	SB85-1.5-2.5MS				
16			1005132-02C66	/	/ /	1409	SB78-3.5-4.5				
17			03C66	1H	/ /	1443	SS77-0-1				
18			04C66	1H	/ /	1517	SB77-3.5-4.5				
19			05C66	/	/ /	1551	SS79-0-1				
20		/	06C66	1H	/ /	1625	SB79-11-12				
21		/	07C66	1H	/ /	1659	SS83-0-1				
22					/ /		05-26-10				
23					/ /						
24					/ /						

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FULL SIM 0E18007 8/18/10
Internal STD Lot#/Exp. Date: 040 0E18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10804 4/21/15
Column Type: RTX-5ms 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TMP DATE 5/28/10

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: 5972HP66 Calibration Date: 05/26/10 Time: 1759

Lab File ID: 0E26007-CCV1A6 Init. Calib. Date(s): 05/25/10 05/25/10

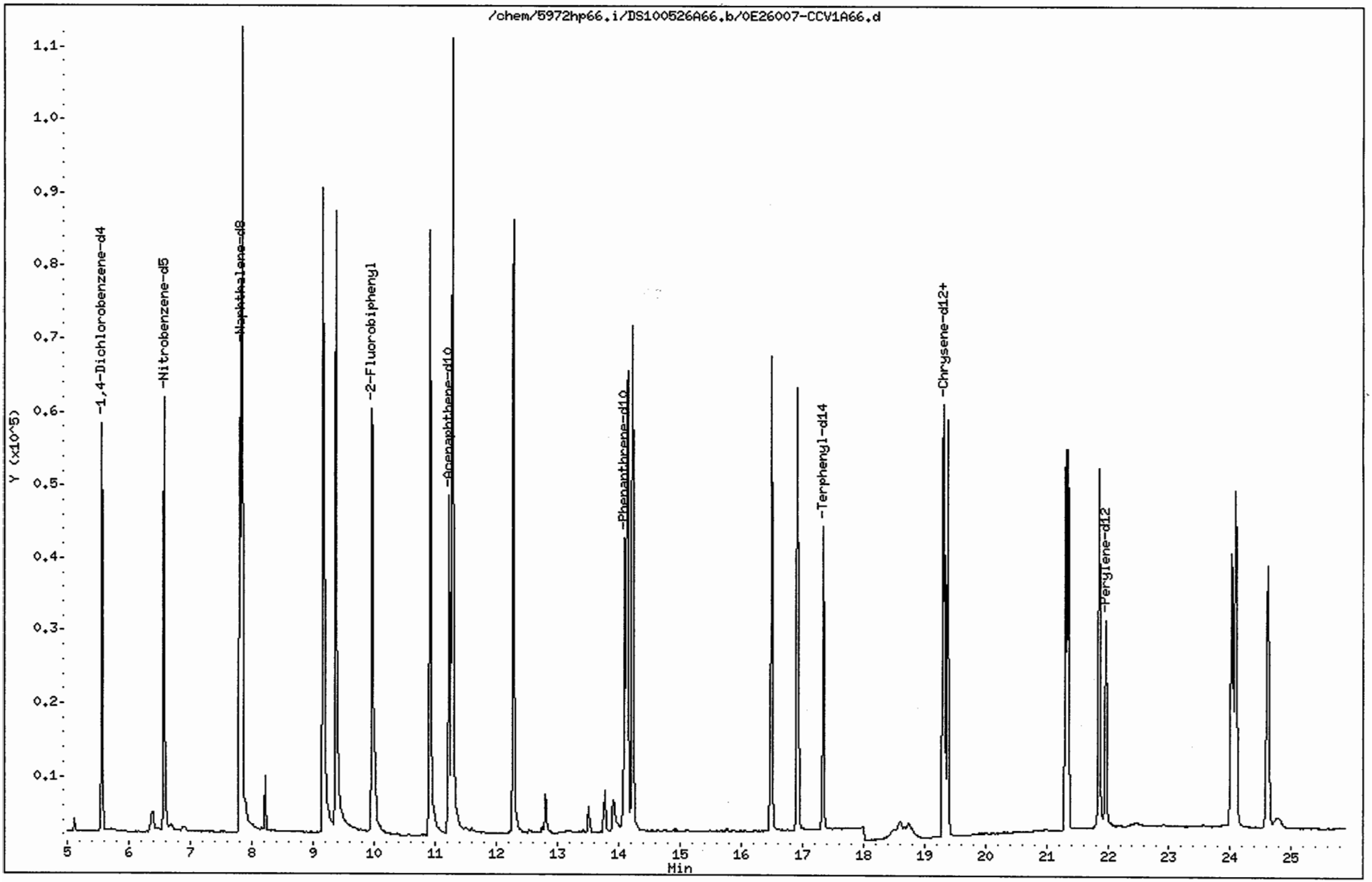
Init. Calib. Times: 0601 0816

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.1021853	0.01	-10.90	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.2429751	0.01	-13.20	50.00	AVRG
Acenaphthylene	2.2340000	1.9636586	0.01	-12.10	50.00	AVRG
Acenaphthene	1.3090000	1.1294624	0.01	-13.72	20.00	AVRG
Fluorene	0.9360000	0.8559034	0.01	-8.56	50.00	AVRG
Phenanthrene	1.2470000	1.0605445	0.01	-14.95	50.00	AVRG
Anthracene	1.1220000	1.0819273	0.01	-3.57	50.00	AVRG
Fluoranthene	1.3260000	1.2986336	0.01	-2.06	20.00	AVRG
Pyrene	1.4440000	1.3836507	0.01	-4.18	50.00	AVRG
Benzo(a)anthracene	1.0870000	1.0641058	0.01	-2.11	50.00	AVRG
Chrysene	1.1770000	1.0322469	0.01	-12.30	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.3134524	0.01	-0.42	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.1500532	0.01	-18.95	50.00	AVRG
Benzo(a)pyrene	1.1890000	1.0820858	0.01	-8.99	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.9543968	0.01	-9.02	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.9433290	0.01	-9.03	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	1.0001813	0.01	-13.92	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4576227	0.01	2.84	50.00	AVRG
2-Fluorobiphenyl	2.0870000	1.7441707	0.01	-16.43	50.00	AVRG
Terphenyl-d14	0.7270000	0.7091960	0.01	-2.45	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100526A66.b/0E26007-CCV1A66.d
Date : 26-MAY-2010 17:59
Client ID: SSTD3.00IN
Instrument: 5972hp66.i
Sample Info: SSTD3.00IN:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526A66.b/0E26007-CCV1A66.d
Report Date: 03-Jun-2010 16:35

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526A66.b/0E26007-CCV1A66.d
Lab Smp Id: 0E26007-CCV1 Client Smp ID: SSTD3.00IN
Inj Date : 26-MAY-2010 17:59
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IN:2730
Misc Info : SSTD3.00IN
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 15:45 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.558	5.558	(1.000)	32686	2.00000	
* 2 Naphthalene-d8	136	7.813	7.813	(1.000)	95578	2.00000	
* 3 Acenaphthene-d10	164	11.231	11.231	(1.000)	43073	2.00000	
* 4 Phenanthrene-d10	188	14.099	14.099	(1.000)	64008	2.00000	
* 5 Chrysene-d12	240	19.336	19.336	(1.000)	48108	2.00000	
* 6 Perylene-d12	264	21.973	21.973	(1.000)	42285	2.00000	(M)
$ 9 Nitrobenzene-d5	82	6.575	6.575	(0.841)	65608	3.00000	3.1
$ 10 2-Fluorobiphenyl	172	9.964	9.964	(0.887)	112690	3.00000	2.5
$ 12 Terphenyl-d14	244	17.346	17.346	(0.897)	51177	3.00000	2.9
13 Naphthalene	128	7.839	7.839	(1.003)	158017	3.00000	2.7
15 2-Methylnaphthalene	141	9.169	9.169	(0.816)	80308	3.00000	2.6
17 Acenaphthylene	152	10.918	10.918	(0.972)	126871	3.00000	2.6
18 Acenaphthene	154	11.283	11.283	(1.005)	72974	3.00000	2.6
21 Fluorene	166	12.286	12.286	(0.871)	82177	3.00000	2.7
25 Phenanthrene	178	14.152	14.152	(1.004)	101825	3.00000	2.6

2 6/3/10 MT

PM 6/3/10

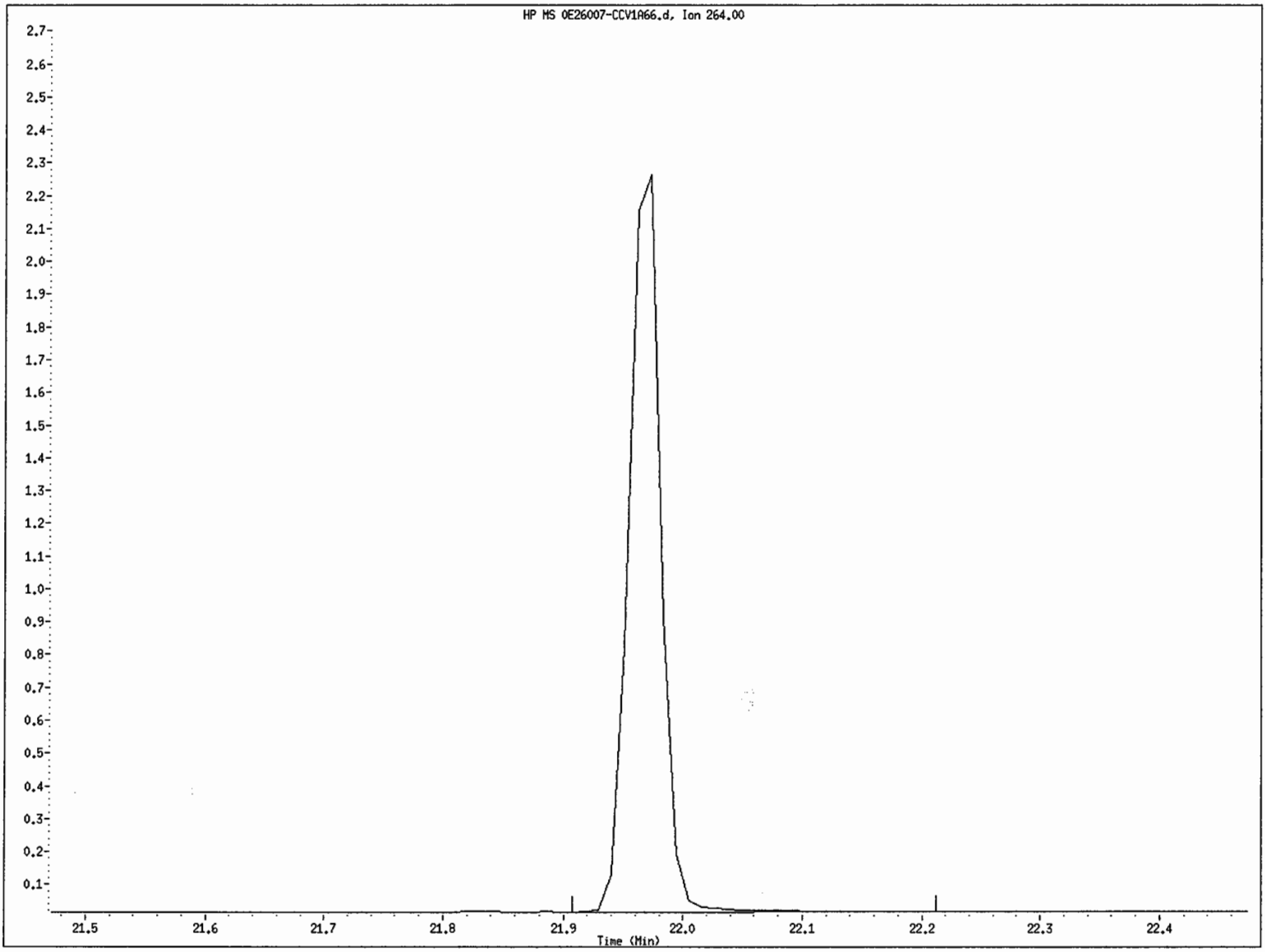
Data File: /chem/5972hp66.i/DS100526A66.b/0E26007-CCV1A66.d
Report Date: 03-Jun-2010 16:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.230	14.230	(1.009)	103878	3.00000	2.9
27 Fluoranthene	202	16.498	16.498	(0.853)	93712	3.00000	2.9
28 Pyrene	202	16.929	16.929	(0.875)	99847	3.00000	2.9
29 Benzo(a)anthracene	228	19.310	19.310	(0.999)	76788	3.00000	2.9
30 Chrysene	228	19.388	19.388	(1.003)	74489	3.00000	2.6
31 Benzo(b)fluoranthene	252	21.319	21.319	(0.970)	83309	3.00000	3.0
32 Benzo(k)fluoranthene	252	21.352	21.352	(0.972)	72945	3.00000	2.4
33 Benzo(a)pyrene	252	21.864	21.864	(0.995)	68634	3.00000	2.7
34 Indeno(1,2,3-cd)pyrene	276	24.030	24.030	(1.094)	60535	3.00000	2.7
35 Dibenzo(a,h)anthracene	278	24.084	24.084	(1.096)	59833	3.00000	2.7
36 Benzo(g,h,i)perylene	276	24.607	24.607	(1.120)	63439	3.00000	2.6

QC Flag Legend

M - Compound response manually integrated.

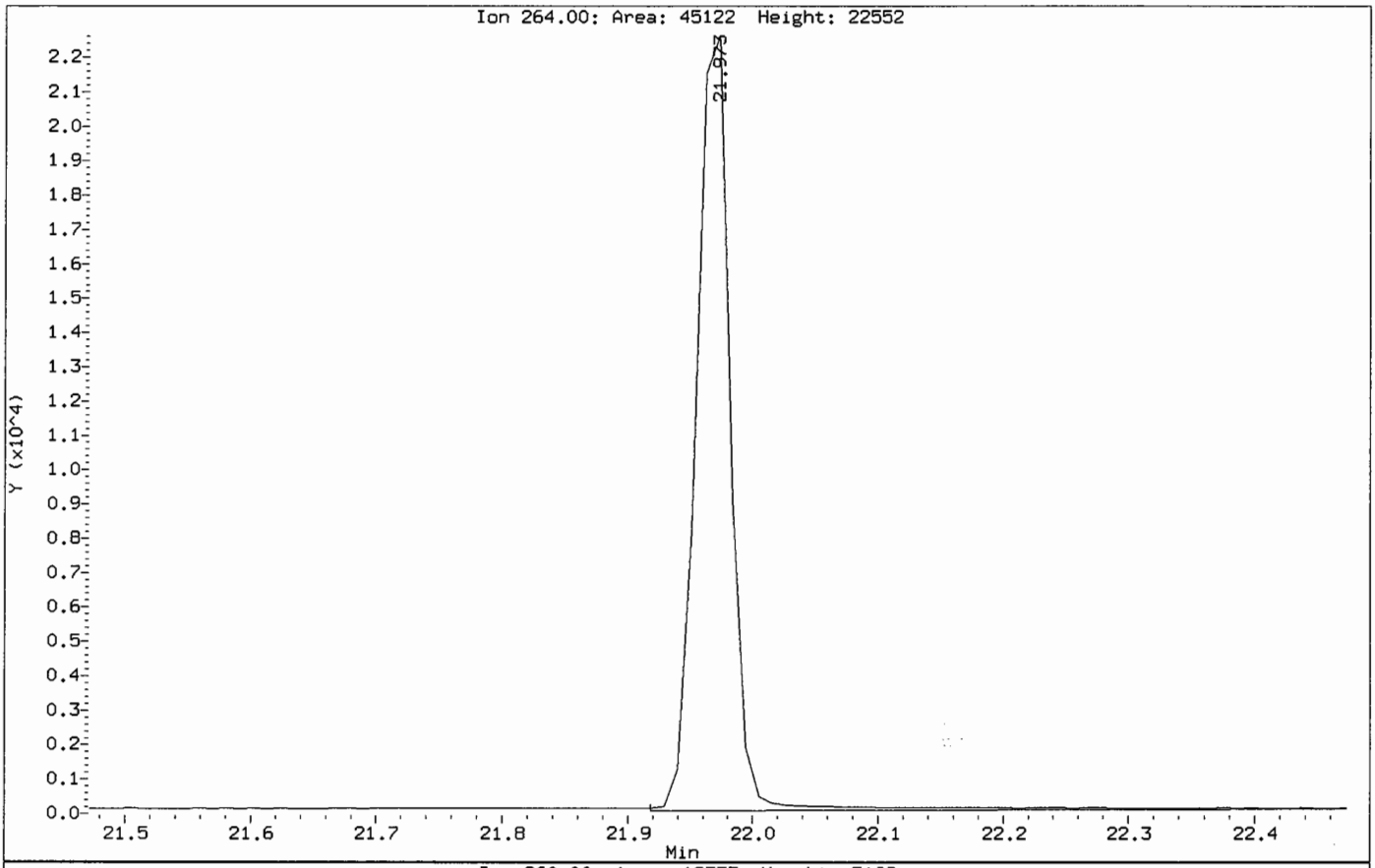
Perylene-d12 CAS Number 1520-96-3 Area = 42285 Manually integrated

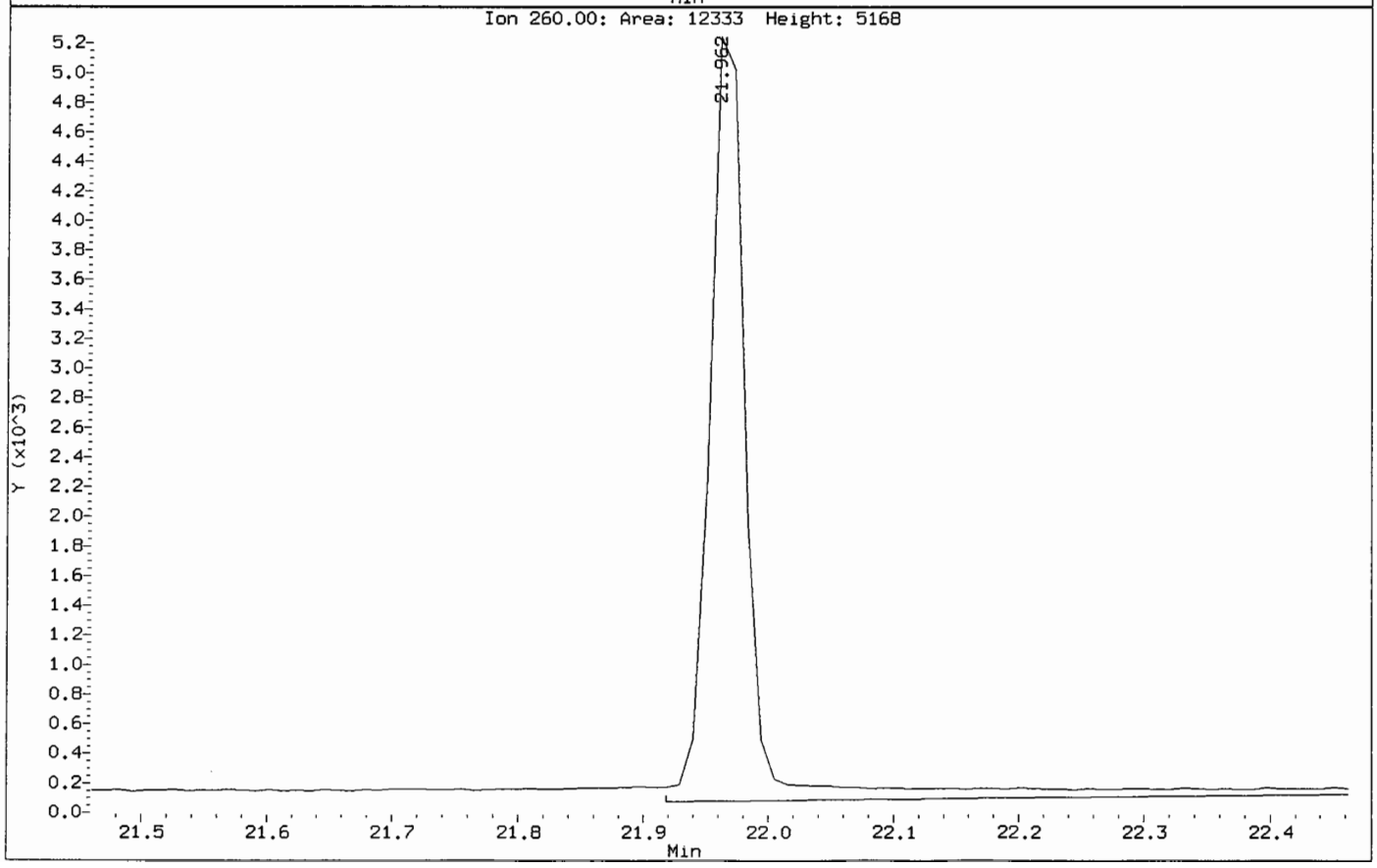


File name: /chem/5972hp66.i/DS100526A66.b/0E26007-CCV1A66.d
Client ID: SSTD3.00IN
Instrument ID: 5972hp66.i
Injection Date and Time: 26-MAY-2010 17:59
Retention Time: 21.97
Operator ID: 2730

Data File: /chem/5972hp66.i/DS100526A66.b/0E26007-CCV1A66.d
Injection Date: 26-MAY-2010 17:59
Instrument: 5972hp66.i
Client Sample ID: SSTD3.00IN

Compound: Perylene-d12
CAS Number: 1520-96-3





COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/26/10 INITIAL TIME OF TUNE 1751 SHIFT/S (A) ✓ (B)____ (C)____
TIME TUNE EXPIRES 0551
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y) N
PREVENTIVE MAINTENANCE none

	SEQUENCE#	REJECTED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	0E26007		N/A	/	5/26/10	1751	FC43	—	N/A	2730	SCD=LCD
2	S1005260A		0E26007-CCV1A066	/	/ /	1759	SSTD3.00IN	—	2µL		
3			0051920-MSD1JA066	/	/ /	1835	SB85-1.5-2.5MSD	1005132			
4			1005132-01JA066	/	/ /	1909	SB85-1.5-2.5				
5		/	-03JA066	IH	/ /	1943	SS77-0-1				JS
6		/	-04JA066	IH	/ /	2017	SS77-3.5-4.5				JS
7		/	-06JA066	IH	/ /	2318	SB79-11-12				JS
8		/	-07JA066	IH	5/27/10	0017	SS83-0-1				JS
9		/	-08A066	IH	/ /	0203	SB83-6.5-7.5				
10		/	-09A066	IH	/ /	0236	SS62-0-1				
11		/	-10A066	IH SH	/ /	0310	SS74-0-1				
12		/	-11A066	IH	/ /	0344	SS86-0-1				
13		/	-12A066	IH SL	/ /	0418	SB86-3-4				
14		/	-13A066	IH	/ /	0452	SS84-0-1				
15		/	-14A066	IH SL	/ /	0526	SB84-6-7				
16					/ /						
17					/ /						
18					/ /		MW 5/27/10				
19					/ /						
20					/ /						
21					/ /						
22					/ /						
23					/ /						
24					/ /						

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FULL SIM 0E18007 8/18/10
Internal STD Lot#/Exp. Date: 040 0E18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TMP DATE 5/27/10

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: 5972HP66 Calibration Date: 05/27/10 Time: 0600

Lab File ID: 0E27003-CCV1C6 Init. Calib. Date(s): 05/25/10 05/25/10

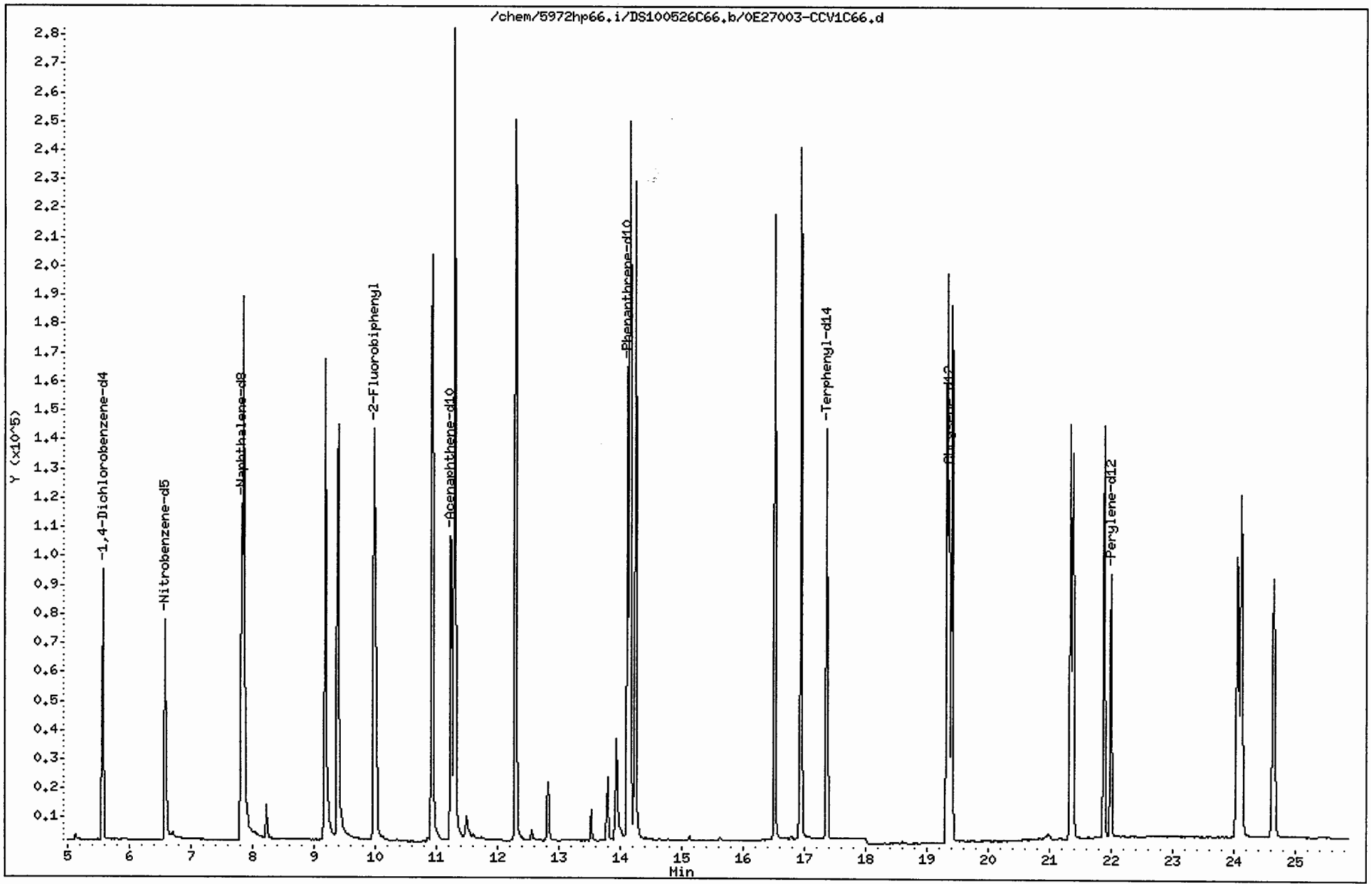
Init. Calib. Times: 0601 0816

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.0808151	0.01	-12.63	50.00	AVRG
2-Methylnaphthalene	1.4320000	0.9882152	0.01	-30.99	50.00	AVRG
Acenaphthylene	2.2340000	1.9376161	0.01	-13.27	50.00	AVRG
Acenaphthene	1.3090000	1.0862652	0.01	-17.02	20.00	AVRG
Fluorene	0.9360000	0.6276008	0.01	-32.95	50.00	AVRG
Phenanthrene	1.2470000	0.9616482	0.01	-22.88	50.00	AVRG
Anthracene	1.1220000	0.9661808	0.01	-13.89	50.00	AVRG
Fluoranthene	1.3260000	1.3312293	0.01	0.39	20.00	AVRG
Pyrene	1.4440000	1.3965896	0.01	-3.28	50.00	AVRG
Benzo(a)anthracene	1.0870000	0.9664839	0.01	-11.09	50.00	AVRG
Chrysene	1.1770000	0.9334717	0.01	-20.69	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.1025108	0.01	-16.41	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.0671584	0.01	-24.80	50.00	AVRG
Benzo(a)pyrene	1.1890000	0.9813132	0.01	-17.47	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.8510122	0.01	-18.87	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.7997568	0.01	-22.88	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	0.8558759	0.01	-26.34	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.3878826	0.01	-12.84	50.00	AVRG
2-Fluorobiphenyl	2.0870000	1.4980094	0.01	-28.22	50.00	AVRG
Terphenyl-d14	0.7270000	0.7188669	0.01	-1.12	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100526C66.b/0E27003-CCV1C66.d
Date : 27-MAY-2010 06:00
Client ID: SSTD3.00IM
Instrument: 5972hp66.i
Sample Info: SSTD3.00IM:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526C66.b/0E27003-CCV1C66.d
Report Date: 03-Jun-2010 14:47

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526C66.b/0E27003-CCV1C66.d
Lab Smp Id: 0E27003-CCV1 Client Smp ID: SSTD3.00IM
Inj Date : 27-MAY-2010 06:00
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IM:2743
Misc Info : SSTD3.00IM
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526C66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 13:52 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.570	5.570	(1.000)	53349	2.00000	
* 2 Naphthalene-d8	136	7.812	7.812	(1.000)	181579	2.00000	
* 3 Acenaphthene-d10	164	11.243	11.243	(1.000)	104824	2.00000	
* 4 Phenanthrene-d10	188	14.114	14.114	(1.000)	233418	2.00000	
* 5 Chrysene-d12	240	19.353	19.353	(1.000)	166666	2.00000	
* 6 Perylene-d12	264	21.983	21.983	(1.000)	125008	2.00000	
$ 9 Nitrobenzene-d5	82	6.574	6.574	(0.841)	105647	3.00000	2.6
$ 10 2-Fluorobiphenyl	172	9.976	9.976	(0.887)	235541	3.00000	2.2
$ 12 Terphenyl-d14	244	17.361	17.361	(0.897)	179716	3.00000	3.0
13 Naphthalene	128	7.851	7.851	(1.005)	294380	3.00000	2.6
15 2-Methylnaphthalene	141	9.181	9.181	(0.817)	155383	3.00000	2.1
17 Acenaphthylene	152	10.930	10.930	(0.972)	304663	3.00000	2.6
18 Acenaphthene	154	11.295	11.295	(1.005)	170800	3.00000	2.5
21 Fluorene	166	12.286	12.286	(0.870)	219740	3.00000	2.0
25 Phenanthrene	178	14.153	14.153	(1.003)	336699	3.00000	2.3

6/3/10 MA

Data File: /chem/5972hp66.i/DS100526C66.b/0E27003-CCV1C66.d
Report Date: 03-Jun-2010 14:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.245	14.245	(1.009)	338286	3.00000	2.6
27 Fluoranthene	202	16.513	16.513	(0.853)	332806	3.00000	3.0
28 Pyrene	202	16.930	16.930	(0.875)	349146	3.00000	2.9
29 Benzo(a)anthracene	228	19.318	19.318	(0.998)	241620	3.00000	2.7
30 Chrysene	228	19.396	19.396	(1.002)	233367	3.00000	2.4
31 Benzo(b)fluoranthene	252	21.330	21.330	(0.970)	206734	3.00000	2.5
32 Benzo(k)fluoranthene	252	21.373	21.373	(0.972)	200105	3.00000	2.3
33 Benzo(a)pyrene	252	21.874	21.874	(0.995)	184008	3.00000	2.5
34 Indeno(1,2,3-cd)pyrene	276	24.051	24.051	(1.094)	159575	3.00000	2.4
35 Dibenzo(a,h)anthracene	278	24.105	24.105	(1.097)	149964	3.00000	2.3
36 Benzo(g,h,i)perylene	276	24.639	24.639	(1.121)	160487	3.00000	2.2

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 5/27/10 INITIAL TIME OF TUNE 0557 SHIFT/S (A) ____ (B) ____ (C) ✓
TIME TUNE EXPIRES 1757
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y)N)
PREVENTIVE MAINTENANCE none

	SEQUENCE#	REJECTED	FILENAME	REJECTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	0E27003		N/A	/	5/27/10	0557	FC43	—	N/A	2743	SCD=LCD
2	S1005206C		0E27003-CCV1C606	/	/ /	0600	SSTD3.00IM	—	2µL		
3		/	1005132-08JC606	IL SL	/ /	0641	SB83-6.5-7.5	1005132			
4			-08J2C606	/	/ /	0749	SB83-6.5-7.5				
5			-09JC606	/	/ /	0823	SS62-0-1				
6			-10JC606	/	/ /	0857	SS74-0-1				
7			-11JC606	/	/ /	0931	SS86-0-1				
8			-12JC606	IL SL	/ /	1005	SB86-3-4				
9			-13JC606	IH	/ /	1039	SS84-0-1				JS
10			-14JC606	SL	/ /	1113	SB84-6-7				
11			-14J2C606	/	/ /	1221	SB84-6-7				
12			-12J2C606	SL	/ /	1256	SB86-3-4				RX
13					/ /						
14					/ /						
15					/ /						
16					/ /						
17					/ /						
18					/ /						
19					/ /						
20					/ /						
21					/ /						
22					/ /						
23					/ /						
24					/ /						

5/27/10

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FULL SIM 0E18007 8/18/10
Internal STD Lot#/Exp. Date: 040 0E18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10S04 4/21/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TMF DATE 5/27/10

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: 5972HP66 Calibration Date: 06/01/10 Time: 1329

Lab File ID: 0F01008-CCV1A6 Init. Calib. Date(s): 05/25/10 05/25/10

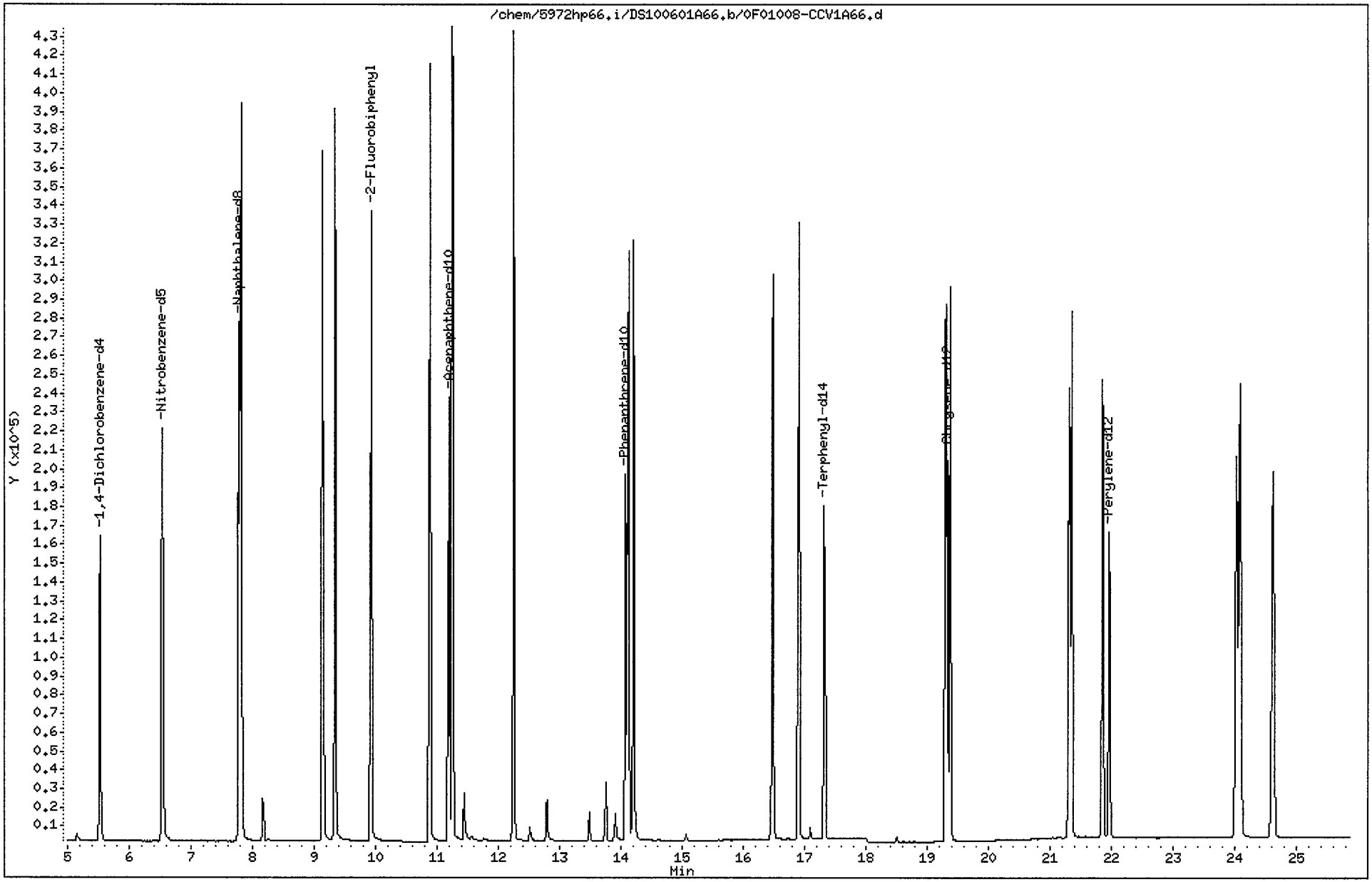
Init. Calib. Times: 0601 0816

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.0139755	0.01	-18.03	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.2736707	0.01	-11.06	50.00	AVRG
Acenaphthylene	2.2340000	2.0562784	0.01	-7.96	50.00	AVRG
Acenaphthene	1.3090000	1.1391328	0.01	-12.98	20.00	AVRG
Fluorene	0.9360000	0.7195862	0.01	-23.12	50.00	AVRG
Phenanthrene	1.2470000	1.0407265	0.01	-16.54	50.00	AVRG
Anthracene	1.1220000	1.0317862	0.01	-8.04	50.00	AVRG
Fluoranthene	1.3260000	1.1528329	0.01	-13.06	20.00	AVRG
Pyrene	1.4440000	1.2366159	0.01	-14.36	50.00	AVRG
Benzo(a)anthracene	1.0870000	1.0099356	0.01	-7.09	50.00	AVRG
Chrysene	1.1770000	1.0008213	0.01	-14.97	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.0805733	0.01	-18.08	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.2236184	0.01	-13.77	50.00	AVRG
Benzo(a)pyrene	1.1890000	1.0349005	0.01	-12.96	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	1.0175211	0.01	-3.00	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.9349570	0.01	-9.84	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	1.0013650	0.01	-13.82	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4552874	0.01	2.31	50.00	AVRG
2-Fluorobiphenyl	2.0870000	1.5412265	0.01	-26.15	50.00	AVRG
Terphenyl-d14	0.7270000	0.6049432	0.01	-16.79	50.00	AVRG

FORM VII SV

Data File: /chem/5972hp66.i/DS100601A66.b/0F01008-CCV1A66.d
Date : 01-JUN-2010 13:29
Client ID: SSTD3.00IU
Instrument: 5972hp66.i
Sample Info: SSTD3.00IU:2650
Volume Injected (uL): 2.0
Operator: 2650
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601A66.b/0F01008-CCV1A66.d
Report Date: 01-Jun-2010 14:06

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601A66.b/0F01008-CCV1A66.d
Lab Smp Id: SSTD3.00IU Client Smp ID: SSTD3.00IU
Inj Date : 01-JUN-2010 13:29
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IU:2650
Misc Info : SSTD3.00IU
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601A66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 14:06 perry Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.531	5.531	(1.000)	103604	2.00000	
* 2 Naphthalene-d8	136	7.773	7.773	(1.000)	383434	2.00000	
* 3 Acenaphthene-d10	164	11.192	11.192	(1.000)	162715	2.00000	
* 4 Phenanthrene-d10	188	14.074	14.074	(1.000)	275979	2.00000	
* 5 Chrysene-d12	240	19.328	19.328	(1.000)	245547	2.00000	
* 6 Perylene-d12	264	21.960	21.960	(1.000)	214161	2.00000	
$ 9 Nitrobenzene-d5	82	6.534	6.534	(0.841)	261859	3.00000	3.1
$ 10 2-Fluorobiphenyl	172	9.923	9.923	(0.887)	376171	3.00000	2.2
$ 12 Terphenyl-d14	244	17.320	17.320	(0.896)	222813	3.00000	2.5
13 Naphthalene	128	7.812	7.812	(1.005)	583189	3.00000	2.5
15 2-Methylnaphthalene	141	9.141	9.141	(0.817)	310868	3.00000	2.7
17 Acenaphthylene	152	10.880	10.880	(0.972)	501881	3.00000	2.8
18 Acenaphthene	154	11.258	11.258	(1.006)	278031	3.00000	2.6
21 Fluorene	166	12.248	12.248	(0.870)	297886	3.00000	2.3
25 Phenanthrene	178	14.126	14.126	(1.004)	430828	3.00000	2.5

T.P 6/1/10

Data File: /chem/5972hp66.i/DS100601A66.b/0F01008-CCV1A66.d
Report Date: 01-Jun-2010 14:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
26 Anthracene	178	14.204	14.204	(1.009)	427127	3.00000	2.8
27 Fluoranthene	202	16.486	16.486	(0.853)	424612	3.00000	2.6
28 Pyrene	202	16.903	16.903	(0.875)	455471	3.00000	2.6
29 Benzo(a)anthracene	228	19.301	19.301	(0.999)	371980	3.00000	2.8
30 Chrysene	228	19.380	19.380	(1.003)	368623	3.00000	2.5
31 Benzo(b)fluoranthene	252	21.318	21.318	(0.971)	347125	3.00000	2.5
32 Benzo(k)fluoranthene	252	21.351	21.351	(0.972)	393077	3.00000	2.6
33 Benzo(a)pyrene	252	21.851	21.851	(0.995)	332453	3.00000	2.6
34 Indeno(1,2,3-cd)pyrene	276	24.028	24.028	(1.094)	326870	3.00000	2.9
35 Dibenzo(a,h)anthracene	278	24.083	24.083	(1.097)	300347	3.00000	2.7
36 Benzo(g,h,i)perylene	276	24.616	24.616	(1.121)	321680	3.00000	2.6

6/1/10

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS SEMIVOLATILE RUN LOG
LOGBOOK 4X(4) 21 (5972hp66)

DATE 6/1/10 INITIAL TIME OF TUNE 1253 SHIFT/S (A) ✓ (B)_____ (C)_____
TIME TUNE EXPIRES 0053
METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: _____ SIM: (Y/N)
PREVENTIVE MAINTENANCE Front/Liner/Septum

	SEQUENCE#	REJECTED	FILENAME	REINJECTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	OF01008		N/A	✓	6/1/10	1253	FC43	—	N/A	2652	SCD=LCD
2	DS100601A		OF01008-CCV1A606	✓	/ /	1329	SSTD3.00IU	—	2uL		
3			005 2404-BLK1A606	✓	/ /	1403	SBLKCD	1005132			
4		/	-BS1A606	SF SL	/ /	1437	SCDLCS				
5		/	-BSD1A606	IL	/ /	1511	SCDLCSD				
6		/	1005132-15A606	SH	/ /	1545	SS81-0-1				Rpt per CP
7		/	-16A606	IL SL	/ /	1619	SB81-5-6				
8		/	-17A606	SL	/ /	1653	SS71-0-1				
9		/	-18A606	SL	/ /	1727	SS71D-0-1				
10		/	-19A606	SL	/ /	1801	SB71-4-5				
11		/	-20A606	IL	/ /	1835	SB71D-4-5	↓			
12		/	0052518-BLK1A606	SL	/ /	1909	SBLKCO	1005134			
13		/	-BS1A606	SF SL	/ /	1943	SCOLCS				
14		/	-MS1A606	SL	/ /	2017	SB44-5-6MS				
15		/	-MSD1A606	SL	/ /	2051	SB44-5-6MSD				
16		/	1005134-18A606	SL	/ /	2125	SB44-5-6				
17		/	-06A606	SL	/ /	2159	SS33-0-1				
18		/	-07A606	IL SL	/ /	2233	SB33-4-5				
19		/	-08A606	SL	/ /	2307	SB31-5-6				
20		/	-09A606	SL	/ /	2340	SS31-0-1	↓	↓	↓	
21					/ /						
22					/ /		MW 6/2/10				
23					/ /						
24					/ /						

DFTPP Lot #/Exp. Date: N/A
Calibration STD Lot#/Exp. Date: FullSIM 0E18007 8/18/10
Internal STD Lot#/Exp. Date: 010 0E18001 10/2/10
Methylene Chloride Lot#/Exp. Date: J10504 4/21/15
Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: TM DATE 6/2/10

6/01/09:jr

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: COMPUCHEM Contract: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Instrument ID: 5972HP66 Calibration Date: 06/02/10 Time: 0027

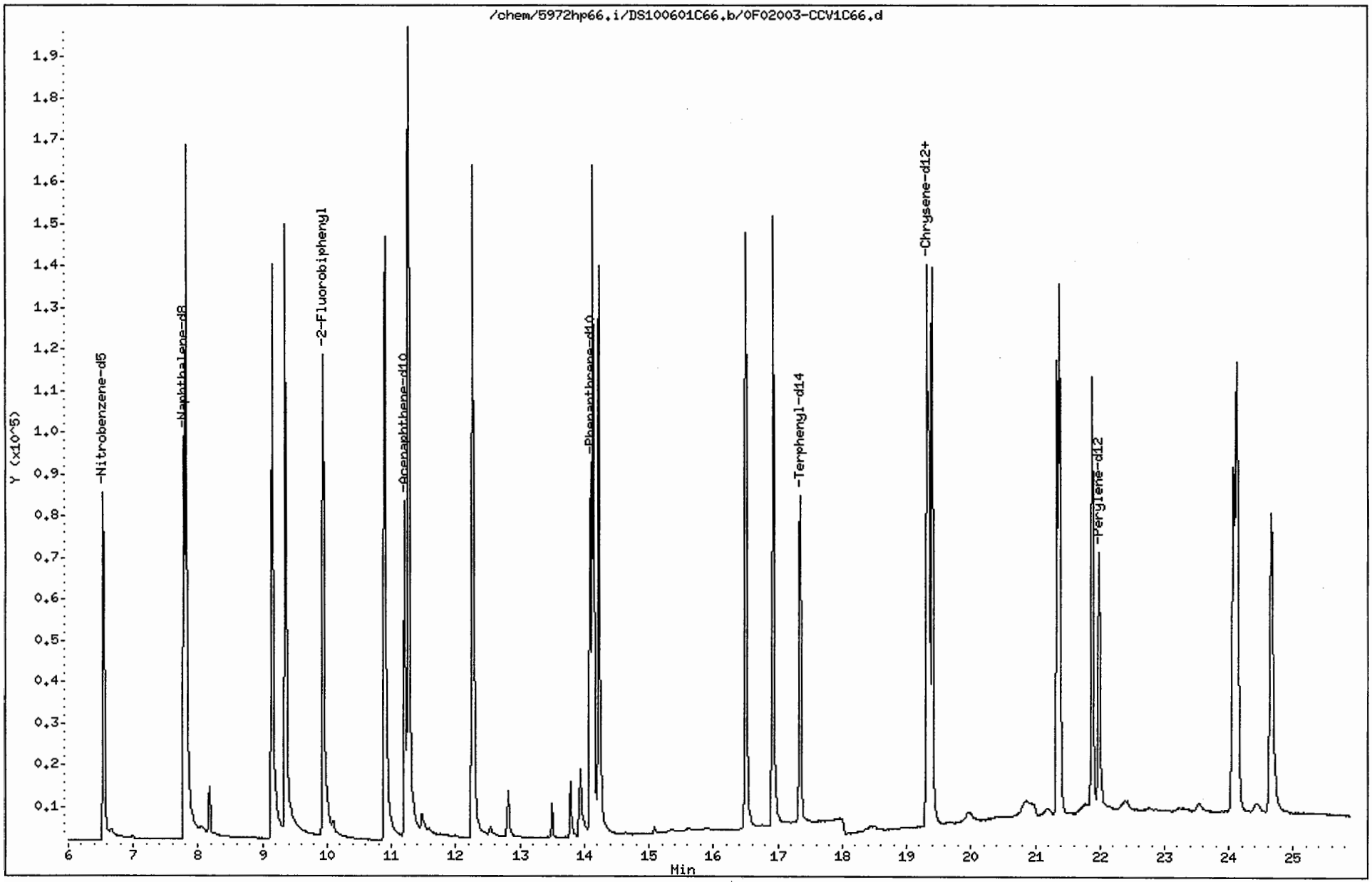
Lab File ID: 0F02003-CCV1C6 Init. Calib. Date(s): 05/25/10 05/25/10

Init. Calib. Times: 0601 0816

GC Column: RTX-5MS ID: 0.32 (mm)

COMPOUND	RRF OR AMOUNT	RRF3.0000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	1.2370000	1.1600896	0.01	-6.22	50.00	AVRG
2-Methylnaphthalene	1.4320000	1.0939729	0.01	-23.60	50.00	AVRG
Acenaphthylene	2.2340000	2.0749801	0.01	-7.12	50.00	AVRG
Acenaphthene	1.3090000	1.1167970	0.01	-14.68	20.00	AVRG
Fluorene	0.9360000	0.7869166	0.01	-15.93	50.00	AVRG
Phenanthrene	1.2470000	1.0035419	0.01	-19.52	50.00	AVRG
Anthracene	1.1220000	1.0888879	0.01	-2.95	50.00	AVRG
Fluoranthene	1.3260000	1.1144421	0.01	-15.95	20.00	AVRG
Pyrene	1.4440000	1.1781727	0.01	-18.41	50.00	AVRG
Benzo(a)anthracene	1.0870000	0.9750695	0.01	-10.30	50.00	AVRG
Chrysene	1.1770000	0.9932408	0.01	-15.61	50.00	AVRG
Benzo(b)fluoranthene	1.3190000	1.0187709	0.01	-22.76	50.00	AVRG
Benzo(k)fluoranthene	1.4190000	1.3354262	0.01	-5.89	50.00	AVRG
Benzo(a)pyrene	1.1890000	1.0495888	0.01	-11.72	20.00	AVRG
Indeno(1,2,3-cd)pyrene	1.0490000	0.9211059	0.01	-12.19	50.00	AVRG
Dibenzo(a,h)anthracene	1.0370000	0.9106300	0.01	-12.19	50.00	AVRG
Benzo(g,h,i)perylene	1.1620000	0.9616492	0.01	-17.24	50.00	AVRG
Nitrobenzene-d5	0.4450000	0.4717280	0.01	6.01	50.00	AVRG
2-Fluorobiphenyl	2.0870000	1.3997846	0.01	-32.93	50.00	AVRG
Terphenyl-d14	0.7270000	0.5922805	0.01	-18.53	50.00	AVRG

Data File: /chem/5972hp66.i/DS100601C66.b/0F02003-CCV1C66.d
Date : 02-JUN-2010 00:27
Client ID: SSTD3.00IV
Instrument: 5972hp66.i
Sample Info: SSTD3.00IV:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601C66.b/0F02003-CCV1C66.d
Report Date: 02-Jun-2010 03:06

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601C66.b/0F02003-CCV1C66.d
Lab Smp Id: 0F02003-CCV1 Client Smp ID: SSTD3.00IV
Inj Date : 02-JUN-2010 00:27
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : SSTD3.00IV:2743
Misc Info : SSTD3.00IV
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601C66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 01:39 mweichel Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	1000.00000	Volume of final extract (uL)
Vo	1000.00000	Volume of sample extracted (mL)
Vi	2.00000	Volume injected (uL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 1 1,4-Dichlorobenzene-d4	152	5.534	5.534	(1.000)	52288	2.00000	
* 2 Naphthalene-d8	136	7.789	7.789	(1.000)	154045	2.00000	
* 3 Acenaphthene-d10	164	11.205	11.205	(1.000)	85436	2.00000	
* 4 Phenanthrene-d10	188	14.100	14.100	(1.000)	152743	2.00000	
* 5 Chrysene-d12	240	19.354	19.354	(1.000)	134828	2.00000	
* 6 Perylene-d12	264	21.994	21.994	(1.000)	113722	2.00000	
$ 9 Nitrobenzene-d5	82	6.537	6.537	(0.839)	109001	3.00000	3.2
$ 10 2-Fluorobiphenyl	172	9.940	9.940	(0.887)	179388	3.00000	2.0
$ 12 Terphenyl-d14	244	17.346	17.346	(0.896)	119784	3.00000	2.4
13 Naphthalene	128	7.815	7.815	(1.003)	268059	3.00000	2.8
15 2-Methylnaphthalene	141	9.144	9.144	(0.816)	140197	3.00000	2.3
17 Acenaphthylene	152	10.905	10.905	(0.973)	265917	3.00000	2.8
18 Acenaphthene	154	11.270	11.270	(1.006)	143122	3.00000	2.6
21 Fluorene	166	12.274	12.274	(0.870)	180294	3.00000	2.5
25 Phenanthrene	178	14.139	14.139	(1.003)	229926	3.00000	2.4

mw 6/2/10

Data File: /chem/5972hp66.i/DS100601C66.b/0F02003-CCV1C66.d
Report Date: 02-Jun-2010 03:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
26 Anthracene	178	14.230	14.230	(1.009)	249480	3.00000	2.9
27 Fluoranthene	202	16.499	16.499	(0.853)	225387	3.00000	2.5
28 Pyrene	202	16.929	16.929	(0.875)	238276	3.00000	2.4
29 Benzo(a)anthracene	228	19.319	19.319	(0.998)	197200	3.00000	2.7
30 Chrysene	228	19.397	19.397	(1.002)	200875	3.00000	2.5
31 Benzo(b)fluoranthene	252	21.330	21.330	(0.970)	173785	3.00000	2.3
32 Benzo(k)fluoranthene	252	21.374	21.374	(0.972)	227801	3.00000	2.8
33 Benzo(a)pyrene	252	21.885	21.885	(0.995)	179042	3.00000	2.6
34 Indeno(1,2,3-cd)pyrene	276	24.073	24.073	(1.095)	157125	3.00000	2.6(M)
35 Dibenzo(a,h)anthracene	278	24.127	24.127	(1.097)	155338	3.00000	2.6
36 Benzo(g,h,i)perylene	276	24.661	24.661	(1.121)	164041	3.00000	2.5

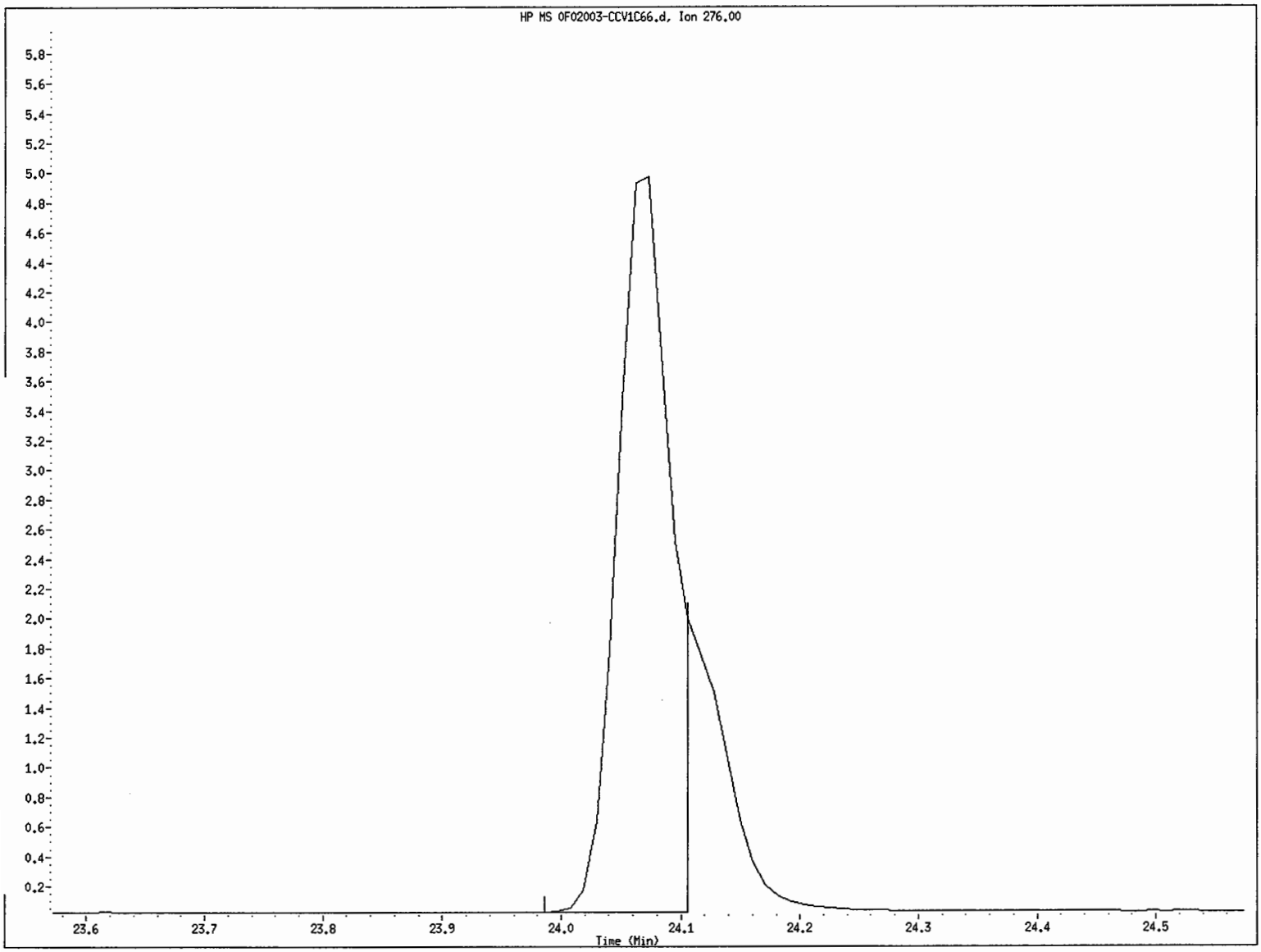
2 MW 6/2/10

pw 6/1/10

QC Flag Legend

M - Compound response manually integrated.

Indeno(1,2,3-cd)pyrene CAS Number 193-39-5 Area = 157125 Manually integrated



File name: /chem/5972hp66.i/DS100601C66.b/0F02003-CCV1C66.d
Client ID: SSTD3.00IV
Instrument ID: 5972hp66.i
Injection Date and Time: 02-JUN-2010 00:27
Retention Time: 24.07
Operator ID: 2743

COMPUCHEM a Division of Liberty Analytical Corp

GC/MS SEMIVOLATILE RUN LOG

LOGBOOK 4X(4) 21 (5972hp66)

DATE 6/2/10 INITIAL TIME OF TUNE 0025 SHIFT/S (A) ____ (B) ____ (C) ✓

TIME TUNE EXPIRES 1225

METHOD: 625 8270C 8270D OLC03.2 OLM04.3 SOM01.2 (Circle One) or Other: PAH SIM: (Y)N)

PREVENTIVE MAINTENANCE none

481

	SEQUENCE#	REJECTED	FILENAME	REPORTED	DATE	TIME	CLIENT ID	SDG#	AMOUNT INJECTED	CHEMIST	COMMENTS
1	QF02003		N/A	/	6/2/10	0025	FC43	—	N/A	2743	SCD=LCD
2	S100601C		QF02003-CCV1006	/		0027	SSTD3.00IV	—	2µL		dws06-02-10
3		/	0052404-BS1JC606	SL		0105	SCDLCS	1005132			Rx Use surr in-house Limits as per CA.
4		/	↓ -BSD1JC606	SL		0139	SCDLCSD				
5		/	1005132-15JC606	SH		0213	SS81-0-1				Rx Report 15A Run
6		/	-16JC606	SL		0247	SB81-5-6				
7		/	-17JC606	SL		0321	SS71-0-1				
8		/	-18JC606	SL		0355	SS71D-0-1				
9		/	-19JC606	SL		0429	SB71-4-5				
10			-20JC606	/		0503	SB71D-4-5				Rx Use surr in-house Limits as per CA (*)
11		/	0052404-BSD1N2C606	SL		0537	SCDLCSD	1005134			Rx *
12		/	0052518-BLK1JC606	SL		0611	SBLKC0	(1005133 1005132 dws 06-02-10			
13			0052409-BLK1C606	/		0649	SBLKCG				*
14			BS1C606	SL		0723	SCGLCS				
15			BSD1C606	/		0757	SCGLCSD				
16			BS1JC606	/		0905	SCGLCS				*
17			1005133-02C66	SL		0956	SB74-4-5	1005133			
18	•		03 C66	/		1030	SS75-0-1				*
19	•		04 C66	SL		1104	SB75-3.5-4.5				
20			05 C66	/		1138	SS63-0-1				
21							dws 06-02-10				
22											
23											
24											

DFTPP Lot #/Exp. Date: N/A

Calibration STD Lot#/Exp. Date: FULLSIM 0E18007 8/18/10

Internal STD Lot#/Exp. Date: 040 0E18001 10/2/10

Methylene Chloride Lot#/Exp. Date: J10504 4/21/15

Column Type: RTX-5MS 0.32mm

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

REVIEWED BY: JMF DATE 6/2/10

6/01/09:jr

4. Raw QC Data

   a. FC43 data

   b. Blank Data

   c. Laboratory Control Sample Data

   d. Matrix Spike Data

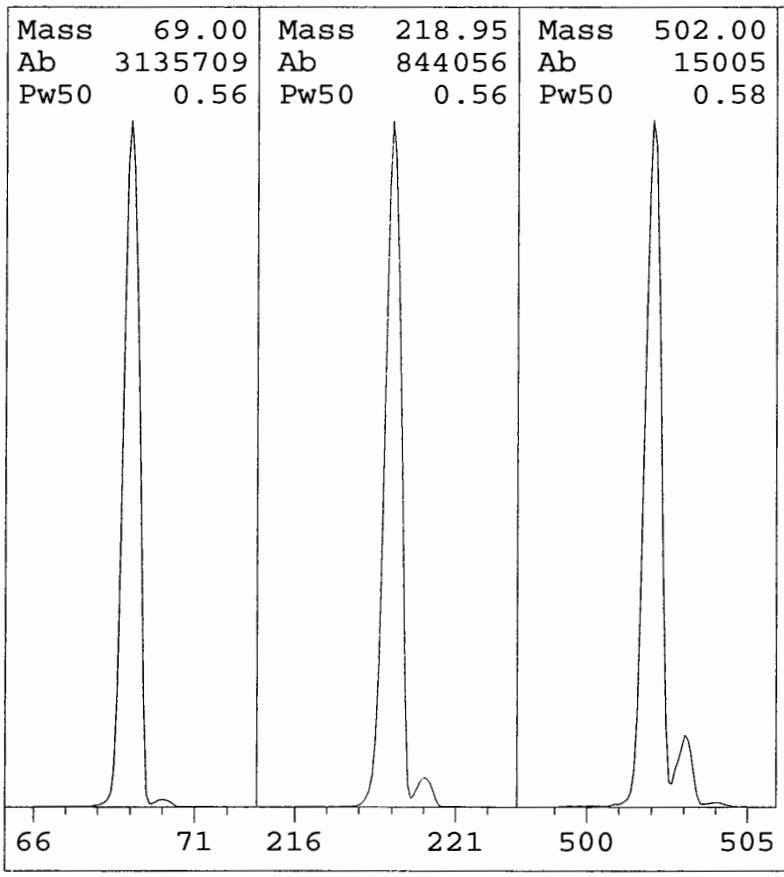
   e. Matrix Spike Duplicate Data

a. FC43 (Calibration Gas)

PFTBA (Perfluoro-tri-n-butylamine) scan,
showing the relative abundance of the
key ions (69, 219, and 502)
and the Instrument Operating Conditions

HP5972

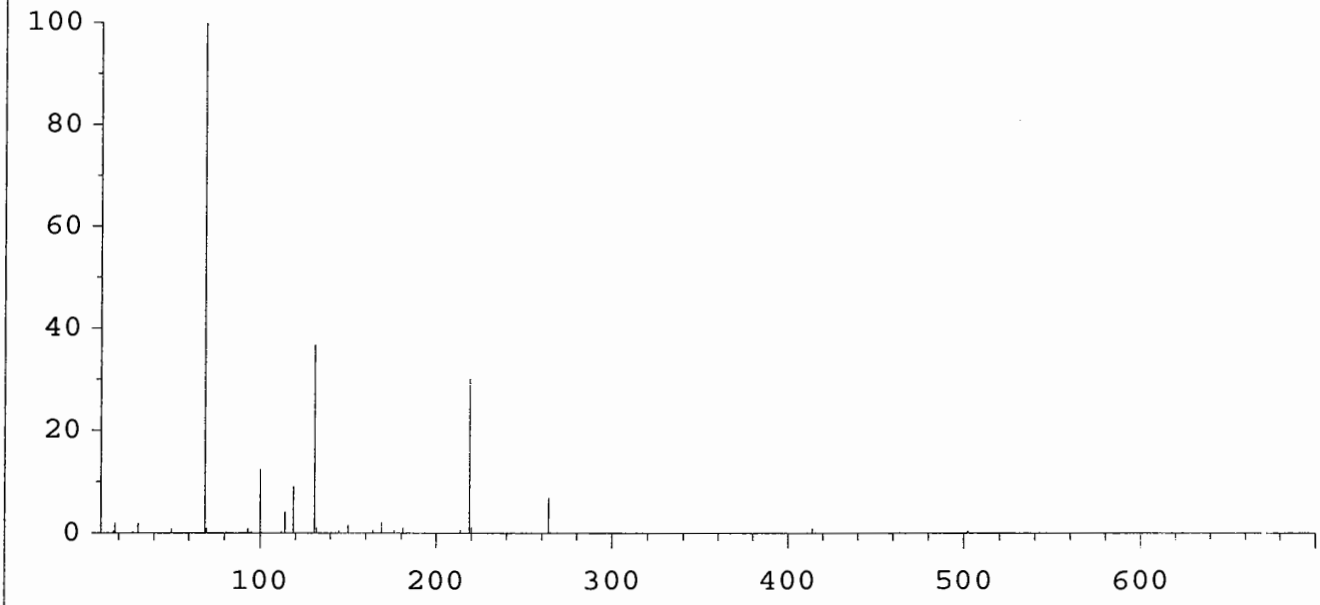
Instrument: GC/MS Instrument #1
Tue May 25 05:59:20 2010 C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	181	TTI	OFF
Vacuum	53	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

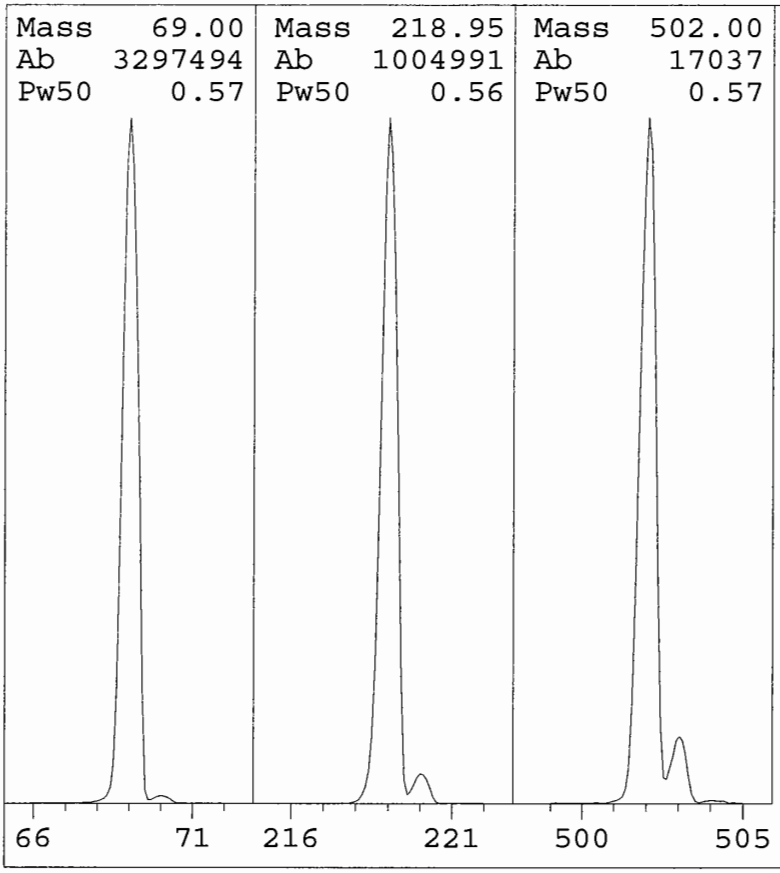
Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
189 peaks Base: 69.00 Abundance: 2428928



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2428928	100.00	69.95	25704	1.06
218.95	736000	30.30	220.00	32008	4.35
502.00	13063	0.54	503.00	1355	10.37

HP5972

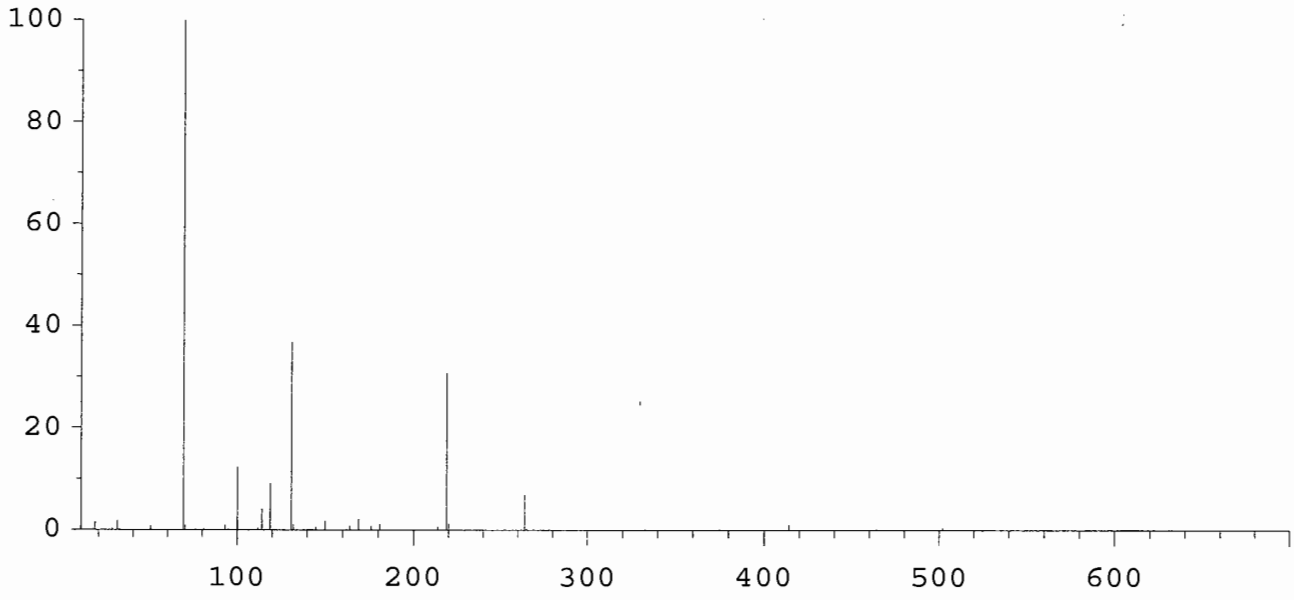
Instrument: GC/MS Instrument #1
Tue May 25 18:39:03 2010 C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	182	TTI	OFF
Vacuum	50	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
199 peaks Base: 69.00 Abundance: 2863616

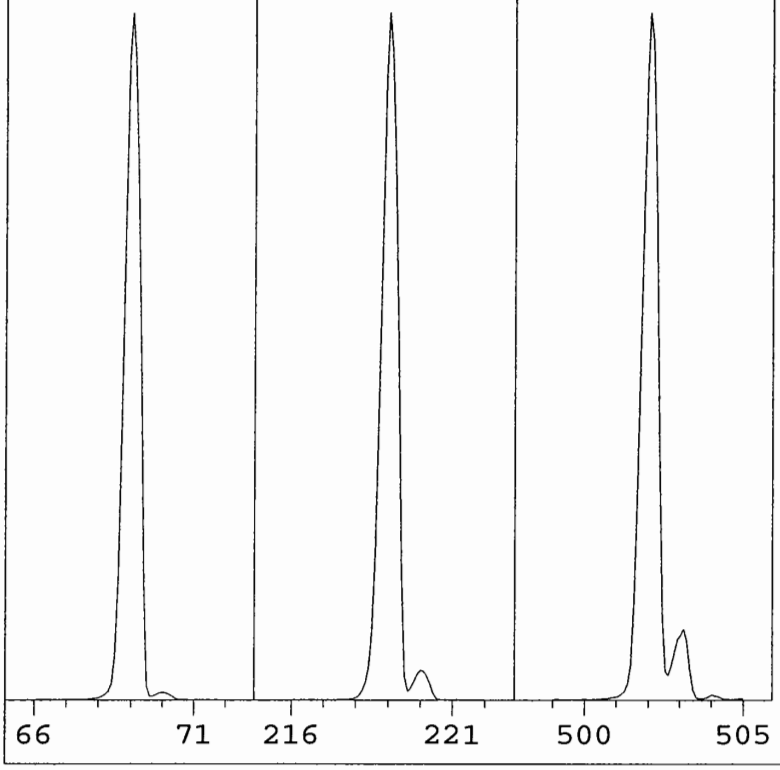


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2863616	100.00	69.95	29968	1.05
218.95	883200	30.84	219.95	37080	4.20
502.00	15500	0.54	503.00	1440	9.29

HP5972

Instrument: GC/MS Instrument #1
Wed May 26 06:09:59 2010 C:\HPCHEM\1\5972\SIM.U

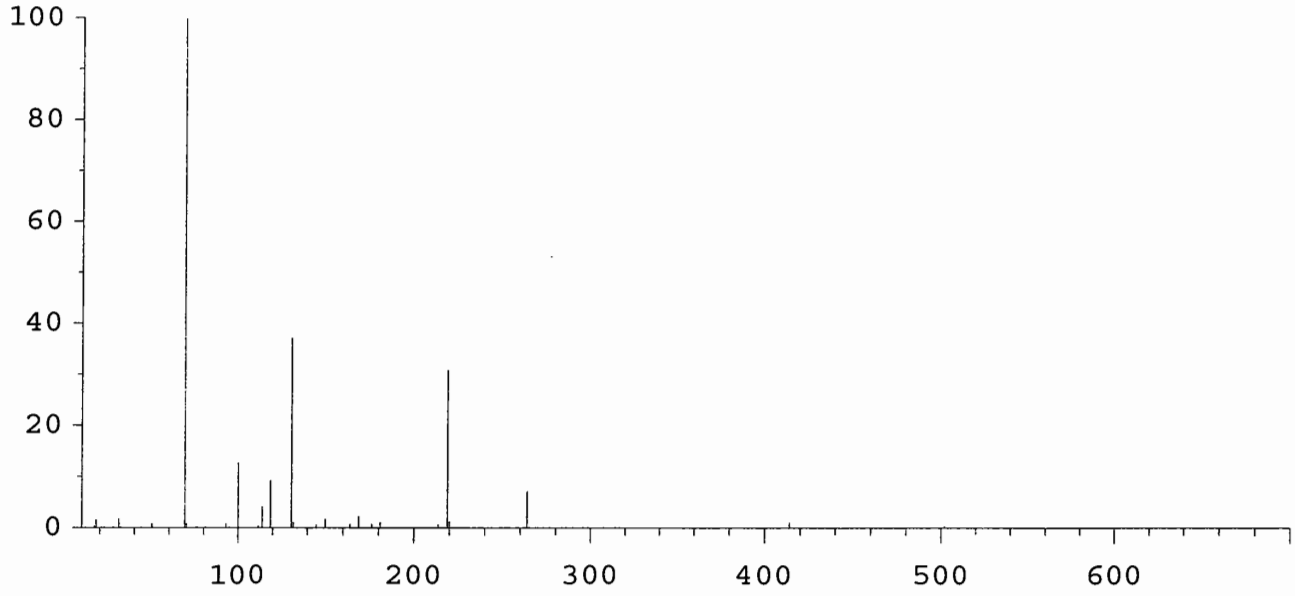
Mass	69.00	Mass	218.95	Mass	502.00
Ab	3259490	Ab	1019161	Ab	18129
Pw50	0.57	Pw50	0.57	Pw50	0.57



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	180	TTI	OFF
Vacuum	54	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

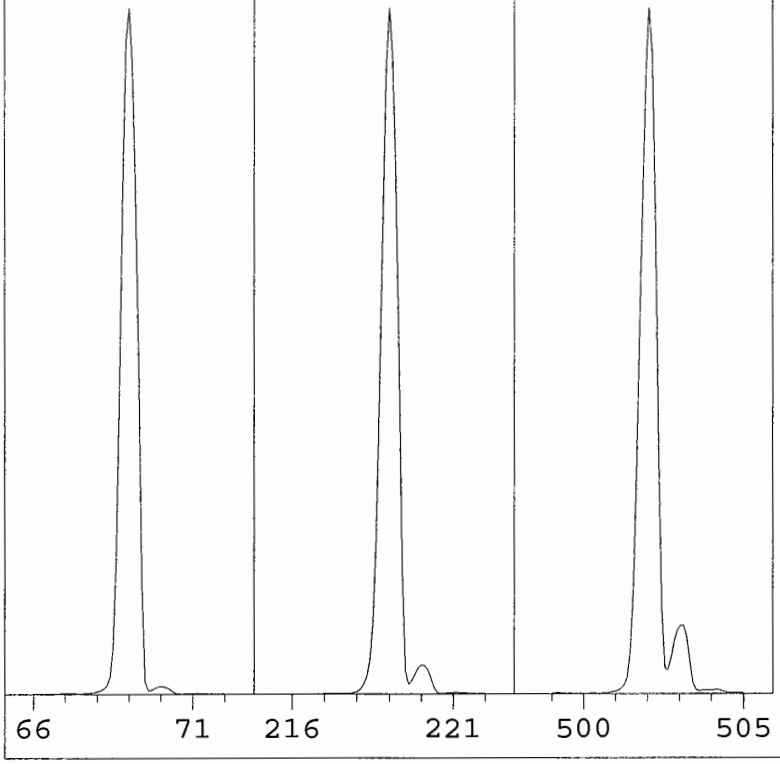
Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
200 peaks Base: 69.00 Abundance: 2897408



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2897408	100.00	69.95	30664	1.06
218.95	895744	30.92	219.95	37528	4.19
502.00	16768	0.58	503.00	1600	9.54

HP5972

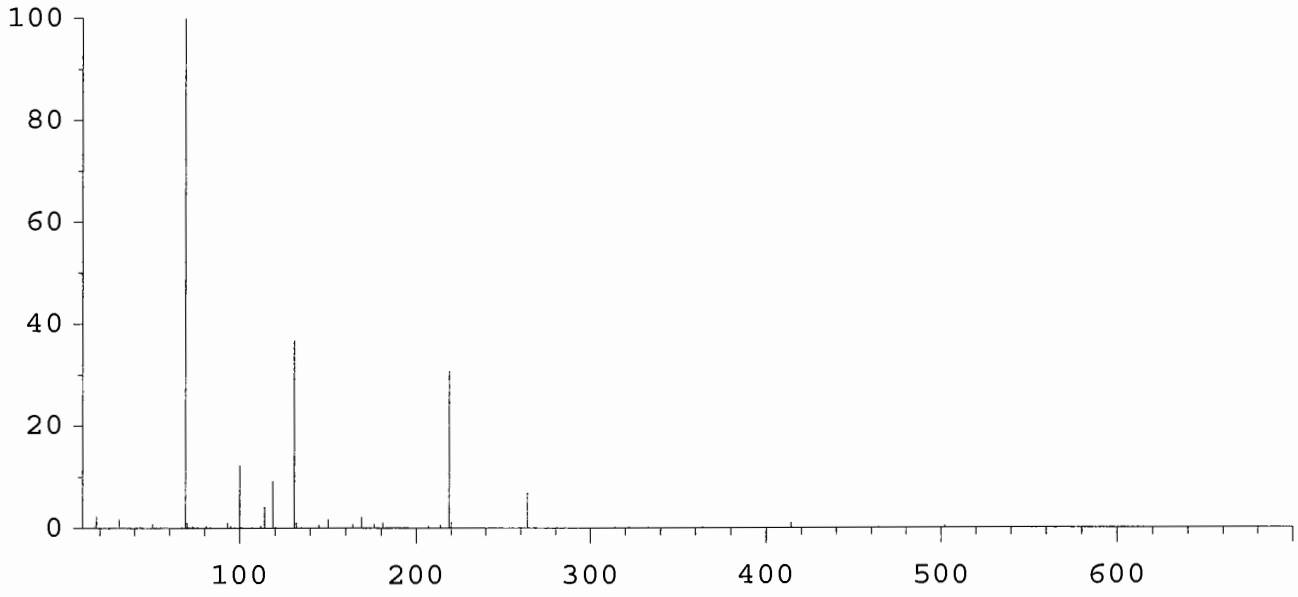
Instrument: GC/MS Instrument #1
Wed May 26 17:51:26 2010 C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	180	TTI	OFF
Vacuum	47	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

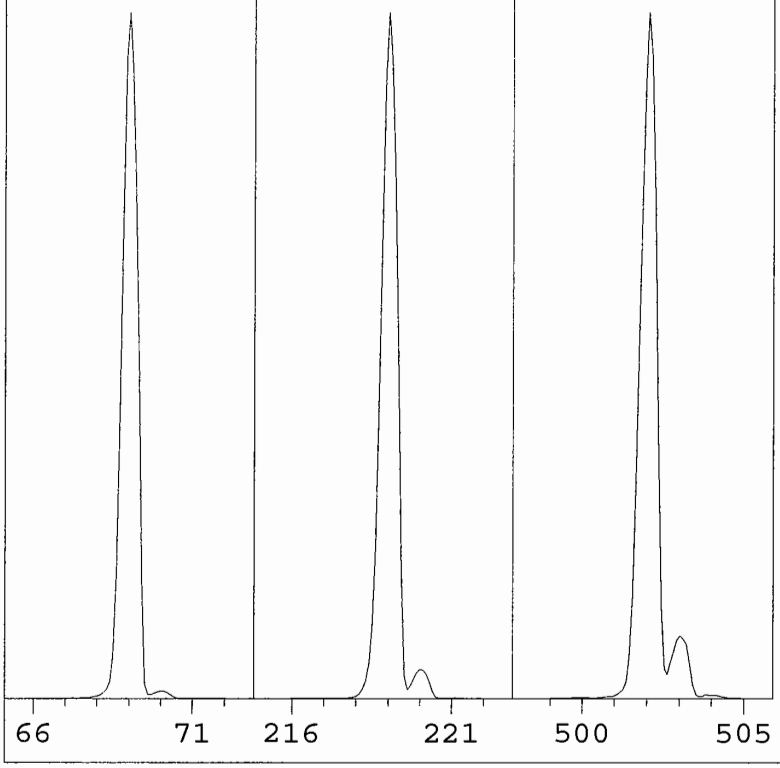
PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
335 peaks Base: 69.00 Abundance: 3358720



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	3358720	100.00	69.95	38024	1.13
218.95	1032256	30.73	219.95	44144	4.28
502.00	19488	0.58	503.00	1849	9.49

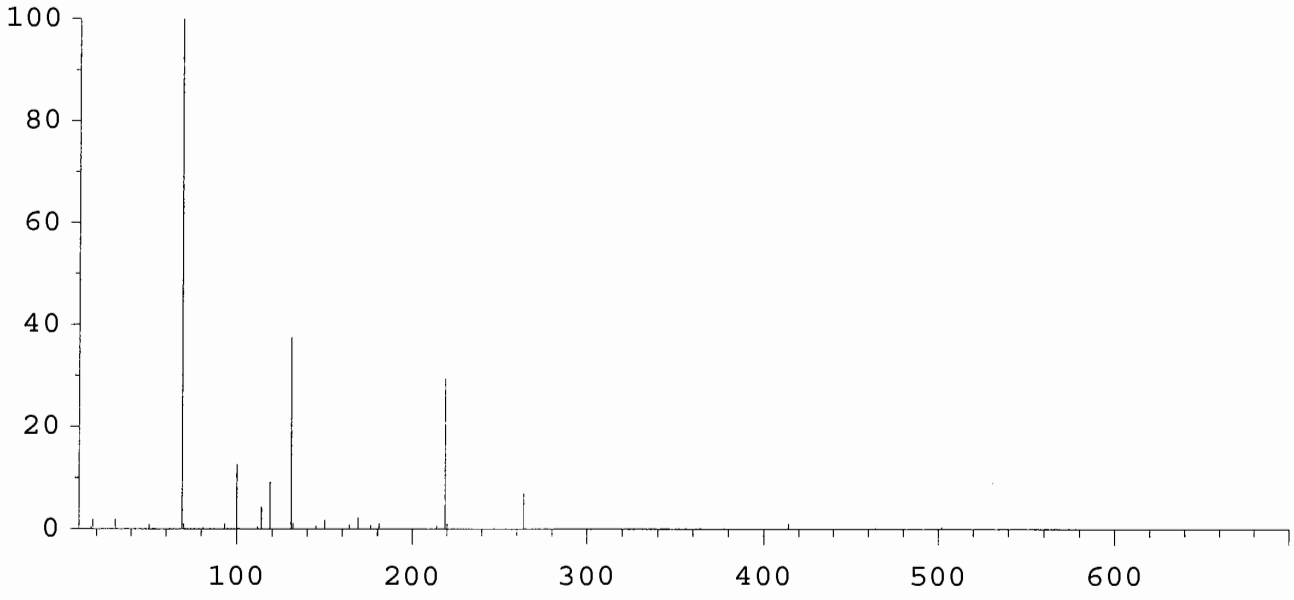
Instrument: GC/MS Instrument #1
Thu May 27 05:57:24 2010 C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.010
MS Temp	184	TTI	OFF
Vacuum	50	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
223 peaks Base: 69.00 Abundance: 3426304

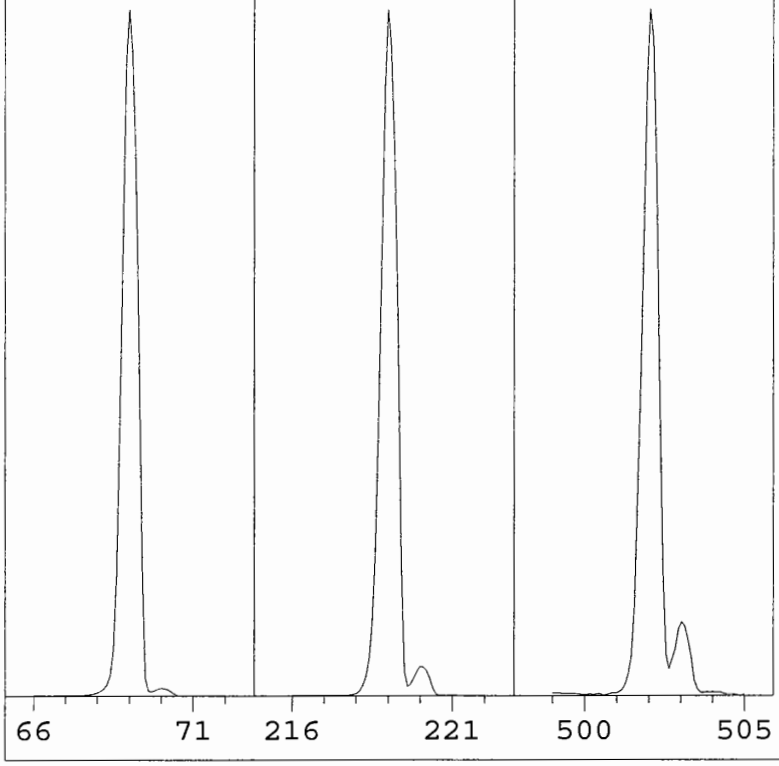


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	3426304	100.00	69.95	37064	1.08
218.95	1010176	29.48	219.95	42464	4.20
502.00	19128	0.56	503.00	1855	9.70

HP5972

Instrument: GC/MS Instrument #1
Tue Jun 01 12:53:40 2010 C:\HPCHEM\1\5972\SIM.U

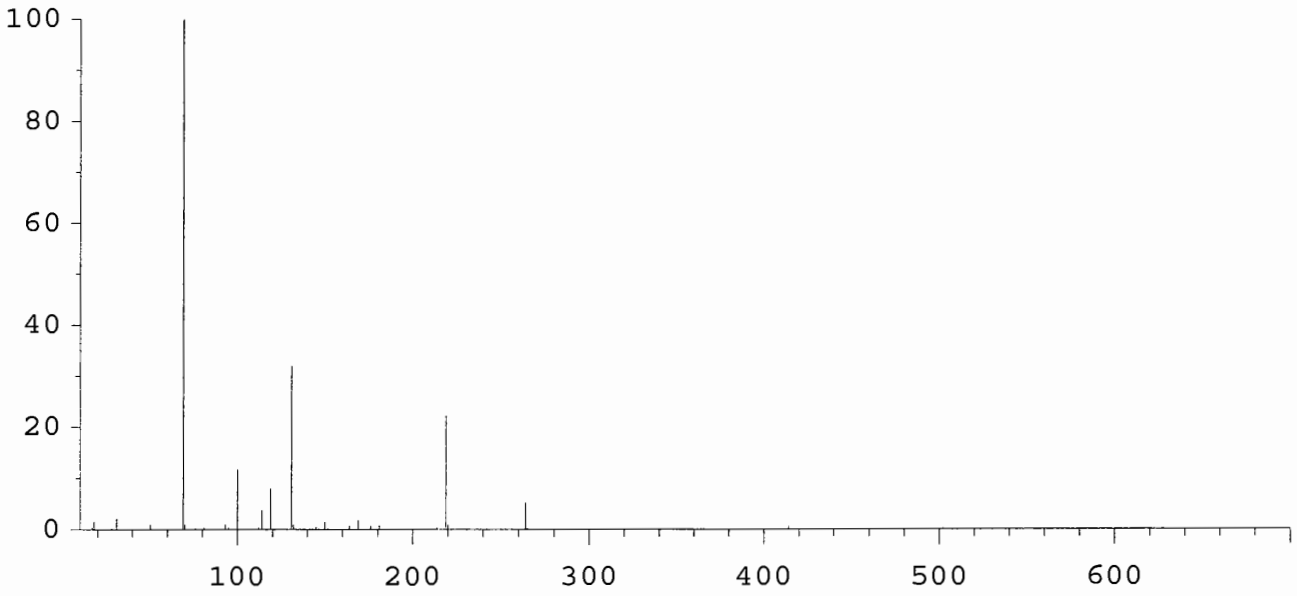
Mass	69.00	Mass	218.95	Mass	502.00
Ab	2591734	Ab	589739	Ab	9601
Pw50	0.57	Pw50	0.57	Pw50	0.57



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.001
MS Temp	185	TTI	OFF
Vacuum	54	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
224 peaks Base: 69.00 Abundance: 2204672

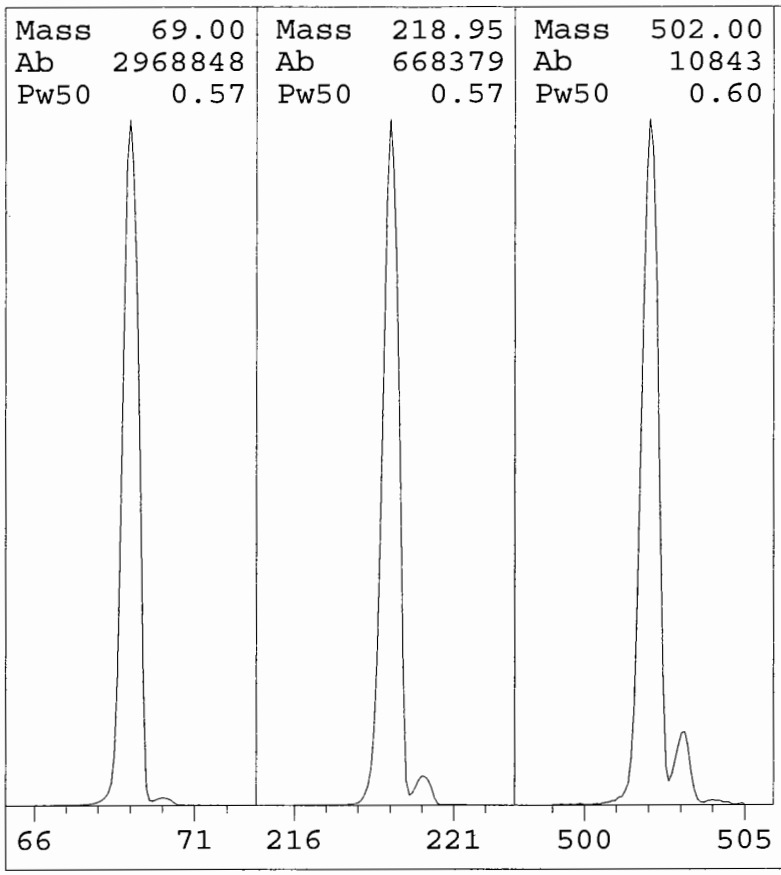


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2204672	100.00	70.05	22896	1.04
218.95	492736	22.35	220.00	21872	4.44
502.00	8233	0.37	503.00	819	9.95

HP5972

Instrument: GC/MS Instrument #1
Wed Jun 02 00:25:17 2010

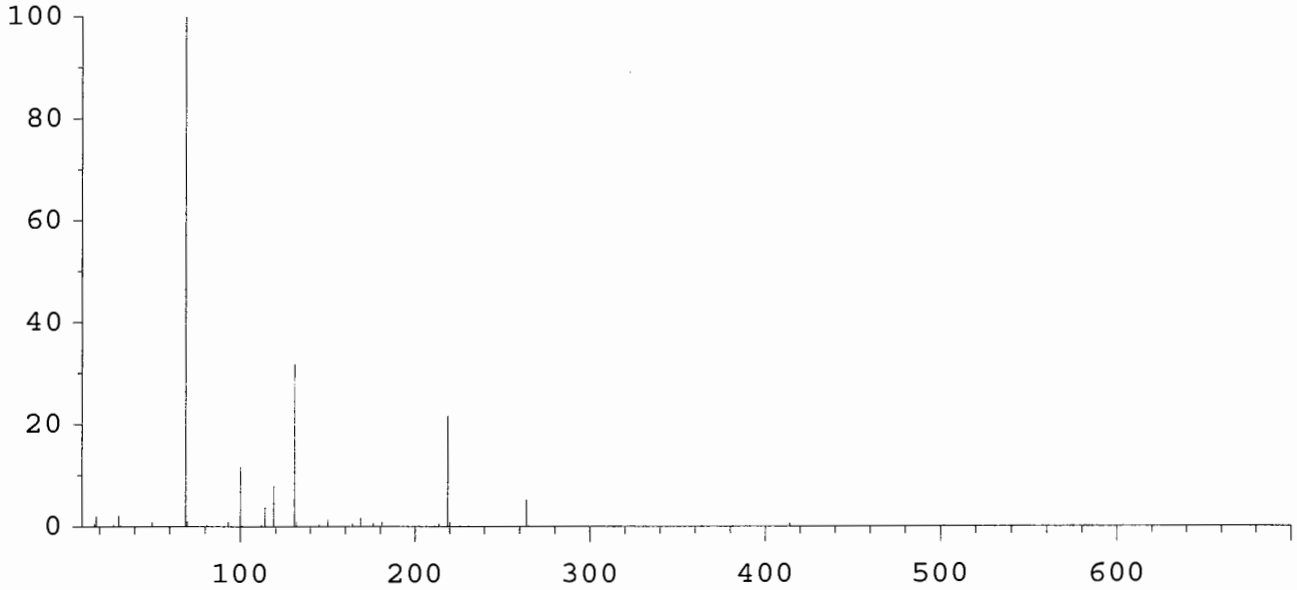
C:\HPCHEM\1\5972\SIM.U



EMVolts	2000	AmuGain	198
Xray	38.5	AmuOffs	70
Emission	35.0	Wid219	0.001
MS Temp	185	TTI	OFF
Vacuum	54	DC Pol	POS
Samples	8	Repeller	22.01
Averages	3	IonFocus	90.0
StepSize	0.10	EntLens	18.57
MassGain	-967	EntOffs	15.81
MassOffs	7	Filament	1

PFTBA OPEN

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100
238 peaks Base: 69.00 Abundance: 2477056



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	2477056	100.00	69.95	27840	1.12
218.95	539264	21.77	220.00	22936	4.25
502.00	9897	0.40	503.00	908	9.17

b. Blank Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report.

- Target compound spectra with lab-generated standard spectra.

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SBLKBP

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-BLK1JC66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/20/10

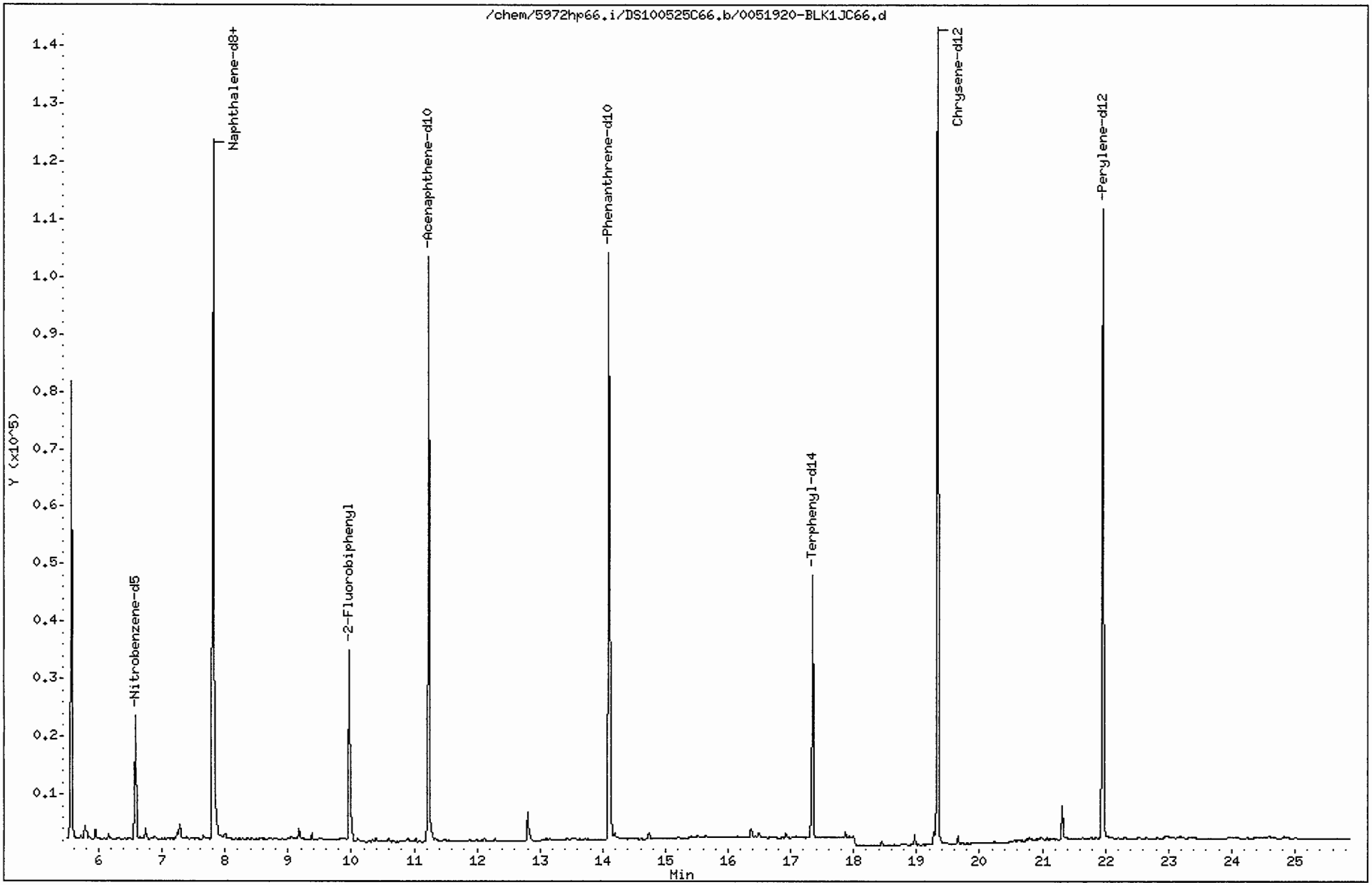
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.84	J
91-57-6	2-Methylnaphthalene	8.3	U
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	8.3	U
86-73-7	Fluorene	8.3	U
85-01-8	Phenanthrene	8.3	U
120-12-7	Anthracene	8.3	U
206-44-0	Fluoranthene	8.3	U
129-00-0	Pyrene	8.3	U
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenzo(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

Data File: /chem/5972hp66.i/DS100525C66.b/0051920-BLK1JC66.d
Date : 26-MAY-2010 06:47
Client ID: SBLKBP
Instrument: 5972hp66.i
Sample Info: 0051920-BLK1:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/0051920-BLK1JC66.d
Report Date: 01-Jun-2010 18:06

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/0051920-BLK1JC66.d
Lab Smp Id: 0051920-BLK1 Client Smp ID: SBLKBP
Inj Date : 26-MAY-2010 06:47
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0051920-BLK1:2743
Misc Info : SBLKBP
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 17:31 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1	1,4-Dichlorobenzene-d4	152	5.571	5.560	(1.000)	45579	2.00000		(a)
* 2	Naphthalene-d8	136	7.813	7.802	(1.000)	161749	2.00000		(a)
* 3	Acenaphthene-d10	164	11.230	11.231	(1.000)	74966	2.00000		(a)
* 4	Phenanthrene-d10	188	14.101	14.101	(1.000)	141759	2.00000		(a)
* 5	Chrysene-d12	240	19.335	19.336	(1.000)	179070	2.00000		(a)
* 6	Perylene-d12	264	21.961	21.961	(1.000)	144331	2.00000		(a)
$ 9	Nitrobenzene-d5	82	6.575	6.563	(0.841)	24388	0.67759	11	
$ 10	2-Fluorobiphenyl	172	9.964	9.966	(0.887)	54448	0.69601	12	
$ 12	Terphenyl-d14	244	17.347	17.347	(0.897)	55565	0.85401	14	
13	Naphthalene	128	7.839	7.841	(1.003)	5027	0.05025	0.84	(a)
15	2-Methylnaphthalene	141	Compound Not Detected.						
17	Acenaphthylene	152	Compound Not Detected.						
18	Acenaphthene	154	Compound Not Detected.						

Data File: /chem/5972hp66.i/DS100525C66.b/0051920-BLK1JC66.d
Report Date: 01-Jun-2010 18:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DS100525C66.b/0051920-BLK1JC66.d

Date : 26-MAY-2010 06:47

Client ID: SBLKBP

Instrument: 5972hp66.i

Sample Info: 0051920-BLK1:2743

Volume Injected (uL): 2.0

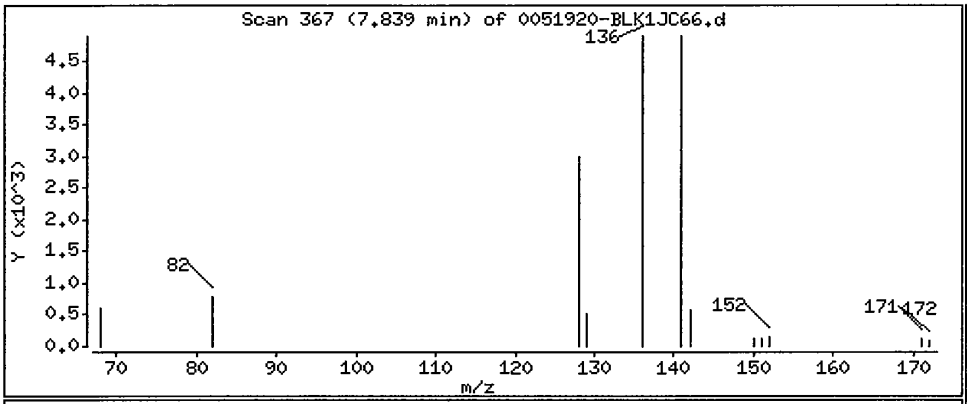
Operator: 2743

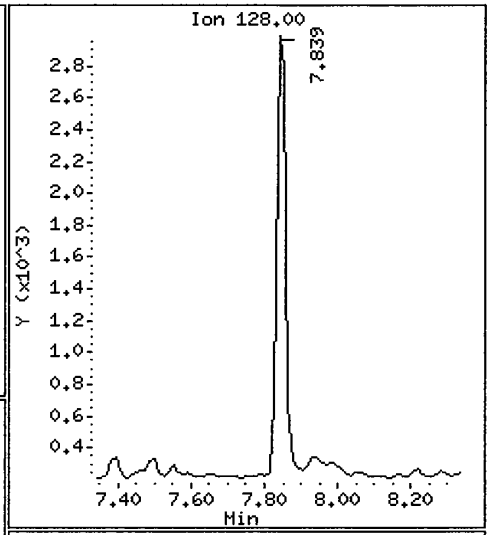
Column phase: Rtx-5MS

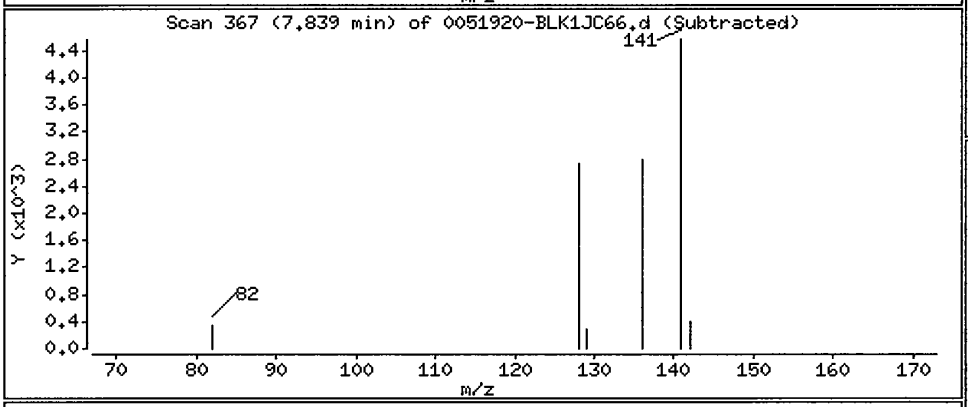
Column diameter: 0.32

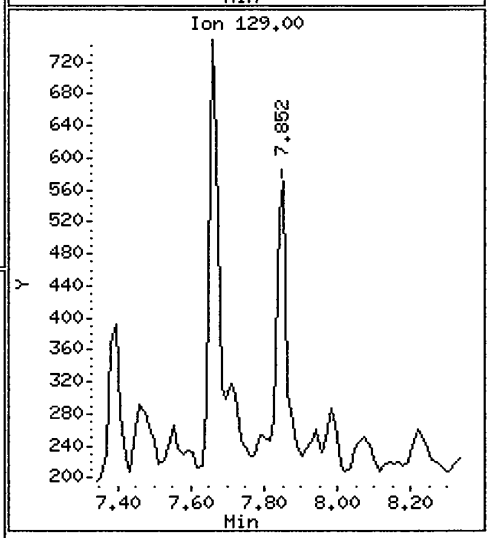
13 Naphthalene

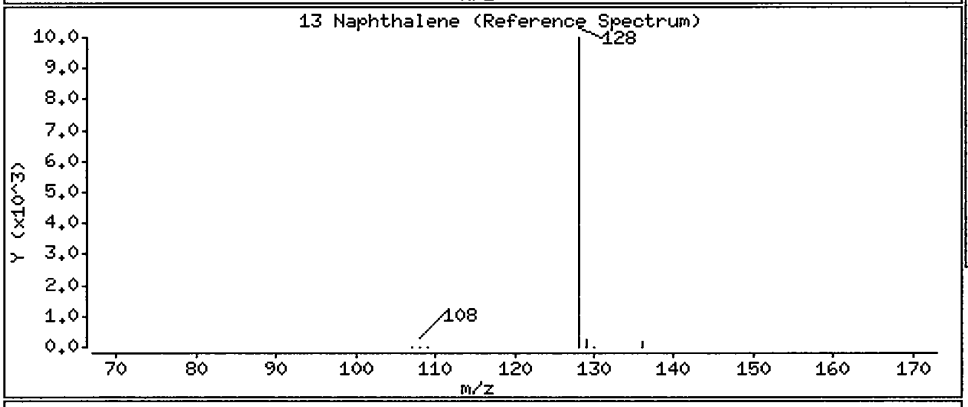
Concentration: 0.84 ug/Kg

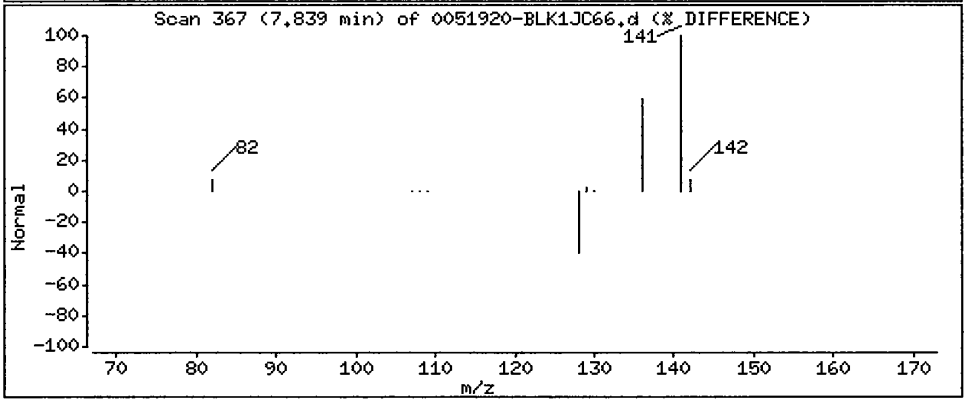












EXTRACTION WORKSHEET

Low Level Soil S-V Method 3550B for 8270C

ASSIGNED TO: T. Williams

CompuChem

DATE/TIME EXTRACTED: 5-20-10 @ 1320

EMP ID NUMBER: 1289

-176 SIM 5-20-1

BATCH NO. 0051920

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE WEIGHT (g)	FINAL VOLUME (ml)	COMMENTS
1	0051920-BLK1	SBLKBP	MB	30.0	1.0	SAMPLES 1-26 ADDED 0.5ml DIL 393 LOT# 62924 F.V. 1.0ml
2	0051920-BS1	SBPLCS	LCS	30.0	1.0	SAMPLES 27 ADDED 0.5ml DIL 393 LOT# 0E2026 F.V. 1.0ml
3	0051920-BSD1	SBPLCSD	LCSD	30.0	1.0	GPC (3640A) PERFORMED Y (N)
4	0051920-MS1	SB85-1.5-2.5MS	MS1	30.0	1.0	
5	0051920-MS2	SS73-0-1MS	MS2	30.0	1.0	VB 5-20-10
6	0051920-MSD1	SB85-1.5-2.5MSD	MSD1	30.0	1.0	
7	0051920-MSD2	SS73-0-1MSD	MSD2	30.0	1.0	
8	1005132-01	SB85-1.5-2.5	SAMPLE	30.0	1.0	QC1
9	1005132-02	SB78-3.5-4.5	SAMPLE	30.0	1.0	
10	1005132-03	SS77-0-1	SAMPLE	30.0	1.0	
11	1005132-04	SB77-3.5-4.5	SAMPLE	30.0	1.0	
12	1005132-05	SS79-0-1	SAMPLE	30.0	1.0	
13	1005132-06	SB79-11-12	SAMPLE	30.0	1.0	
14	1005132-07	SS83-0-1	SAMPLE	30.0	1.0	
15	1005132-08	SB83-6.5-7.5	SAMPLE	30.0	1.0	
16	1005132-09	SS62-0-1	SAMPLE	30.0	1.0	VB 5-20-10
17	1005132-10	SS74-0-1	SAMPLE	30.0	1.0	
18	1005132-11	SS86-0-1	SAMPLE	30.0	1.0	
19	1005132-12	SB86-3-4	SAMPLE	30.0	1.0	
20	1005132-13	SS84-0-1	SAMPLE	30.0	1.0	
21	1005132-14	SB84-6-7	SAMPLE	30.0	1.0	
22	1005133-01	SS73-0-1	SAMPLE	30.0	1.0	QC2
23	1005134-01	SS02-0-1	SAMPLE	30.0	1.0	
24	1005134-02	SS02D-0-1	SAMPLE	30.0	1.0	
25	1005134-03	SB02-5-6	SAMPLE	30.0	1.0	VB 5-20-10
26	1005134-04	SB02D-5-6	SAMPLE	30.0	1.0	
27	1005134-05	SB05-7-8	SAMPLE	30.0	1.0	

		SVOL	Others
SURROGATE	NO.	DIL. 393	
	AMT.	0.5 ml	
	LOT	SEE COMMENTS	
SPIKE	NO.		SIM VALID. SPK
	AMT.		0.5 mL
	LOT		082109-03

FINAL VOLUME VERIFIED: [signature]

REVIEWED BY: [signature]

SURROGATE & SPIKE ADDED BY: TMW 5-20-10
Initials Date

Witness SB, 5-20-10
Initials Date

Analyst initials. Extracted TMW KD VB N2 VB/TMW Bottle up VB/TMW

Balance ID: SARTORIUS-BL310

Manufacturer and lot number of reagents/solvents used 50/50 CH_2Cl_2/CH_3COCH_3-ZXXB-649-3, Na_2SO_4-ZXXB-649-Z, CH_2Cl_2-J17300

12/29/09: RM

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBLKCD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052404-BLK1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0052404-BLK1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/24/10

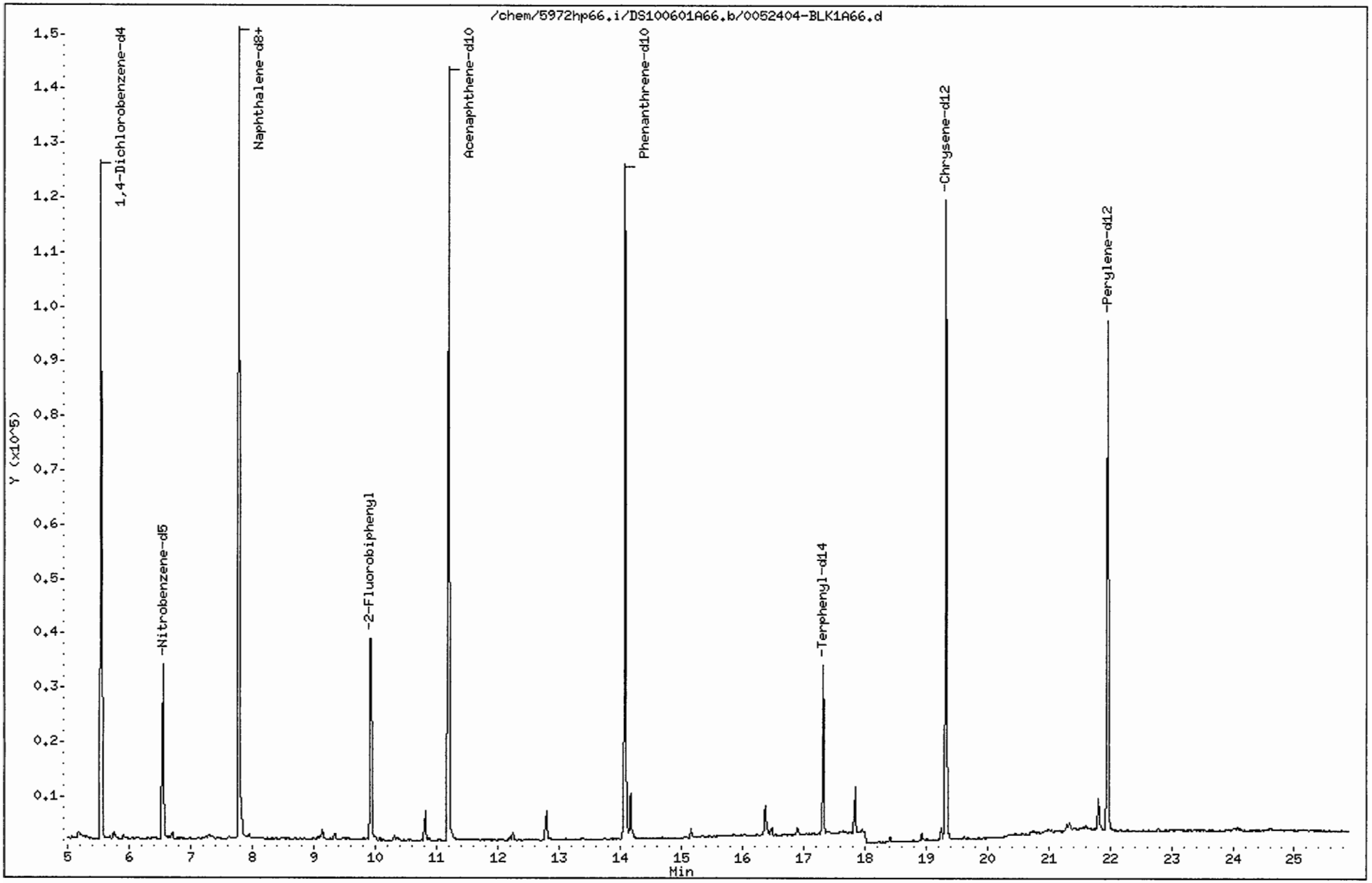
Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/01/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	0.79	J
91-57-6	2-Methylnaphthalene	8.3	U
208-96-8	Acenaphthylene	8.3	U
83-32-9	Acenaphthene	8.3	U
86-73-7	Fluorene	8.3	U
85-01-8	Phenanthrene	8.3	U
120-12-7	Anthracene	8.3	U
206-44-0	Fluoranthene	8.3	U
129-00-0	Pyrene	8.3	U
56-55-3	Benzo(a)anthracene	8.3	U
218-01-9	Chrysene	8.3	U
205-99-2	Benzo(b)fluoranthene	8.3	U
207-08-9	Benzo(k)fluoranthene	8.3	U
50-32-8	Benzo(a)pyrene	8.3	U
193-39-5	Indeno(1,2,3-cd)pyrene	8.3	U
53-70-3	Dibenzo(a,h)anthracene	8.3	U
191-24-2	Benzo(g,h,i)perylene	8.3	U

Data File: /chem/5972hp66.i/DS100601A66.b/0052404-BLK1A66.d
Date : 01-JUN-2010 14:03
Client ID: SBLKCD
Instrument: 5972hp66.i
Sample Info: 0052404-BLK1:2650
Volume Injected (uL): 2.0
Operator: 2650
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601A66.b/0052404-BLK1A66.d
Report Date: 02-Jun-2010 13:34

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601A66.b/0052404-BLK1A66.d
Lab Smp Id: 0052404-BLK1 Client Smp ID: SBLKCD
Inj Date : 01-JUN-2010 14:03
Operator : 2650 Inst ID: 5972hp66.i
Smp Info : 0052404-BLK1:2650
Misc Info : SBLKCD
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601A66.b/SIM_8270Cv2DOD.m
Meth Date : 02-Jun-2010 13:32 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.543	5.531	(1.000)	69559	2.00000		(a)
*	2 Naphthalene-d8	136	7.785	7.773	(1.000)	243258	2.00000		(a)
*	3 Acenaphthene-d10	164	11.192	11.192	(1.000)	104418	2.00000		(a)
*	4 Phenanthrene-d10	188	14.074	14.074	(1.000)	180808	2.00000		(a)
*	5 Chrysene-d12	240	19.327	19.328	(1.000)	146327	2.00000		(a)
*	6 Perylene-d12	264	21.960	21.960	(1.000)	124833	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.547	6.534	(0.841)	35823	0.66180	11	
$	10 2-Fluorobiphenyl	172	9.936	9.923	(0.888)	49436	0.45370	7.6	
$	12 Terphenyl-d14	244	17.321	17.320	(0.896)	36966	0.69528	12	
	13 Naphthalene	128	7.811	7.812	(1.003)	7090	0.04712	0.79	(a)
	15 2-Methylnaphthalene	141	Compound Not Detected.						
	17 Acenaphthylene	152	Compound Not Detected.						
	18 Acenaphthene	154	Compound Not Detected.						

6/2/10

Data File: /chem/5972hp66.i/DS100601A66.b/0052404-BLK1A66.d
Report Date: 02-Jun-2010 13:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	Compound Not Detected.					
25 Phenanthrene	178	Compound Not Detected.					
26 Anthracene	178	Compound Not Detected.					
27 Fluoranthene	202	Compound Not Detected.					
28 Pyrene	202	Compound Not Detected.					
29 Benzo(a)anthracene	228	Compound Not Detected.					
30 Chrysene	228	Compound Not Detected.					
31 Benzo(b)fluoranthene	252	Compound Not Detected.					
32 Benzo(k)fluoranthene	252	Compound Not Detected.					
33 Benzo(a)pyrene	252	Compound Not Detected.					
34 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
35 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
36 Benzo(g,h,i)perylene	276	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5972hp66.i/DS100601A66.b/0052404-BLK1A66.d

Date : 01-JUN-2010 14:03

Client ID: SBLKCD

Instrument: 5972hp66.i

Sample Info: 0052404-BLK1:2650

Volume Injected (uL): 2.0

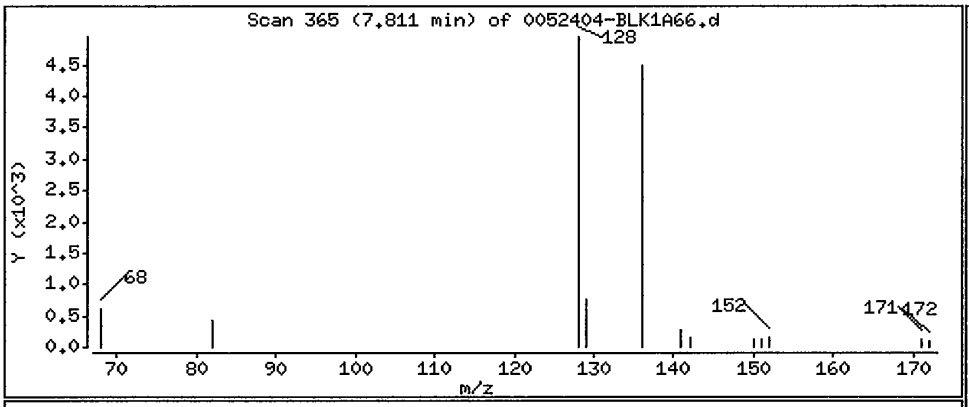
Operator: 2650

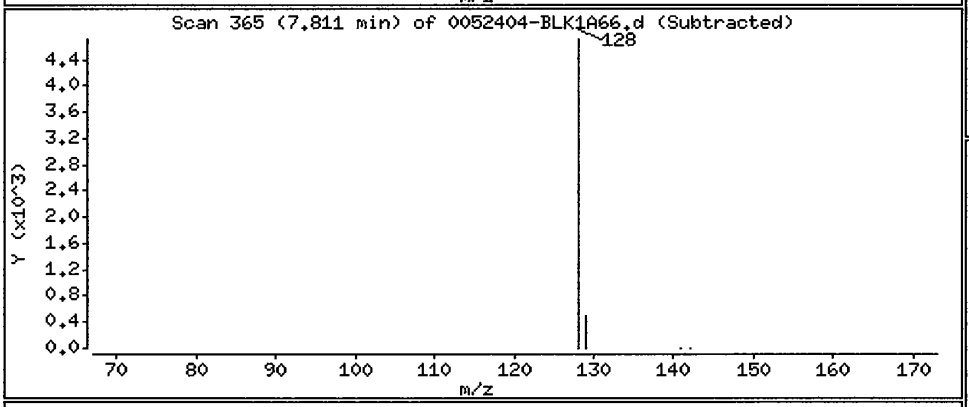
Column phase: Rtx-5MS

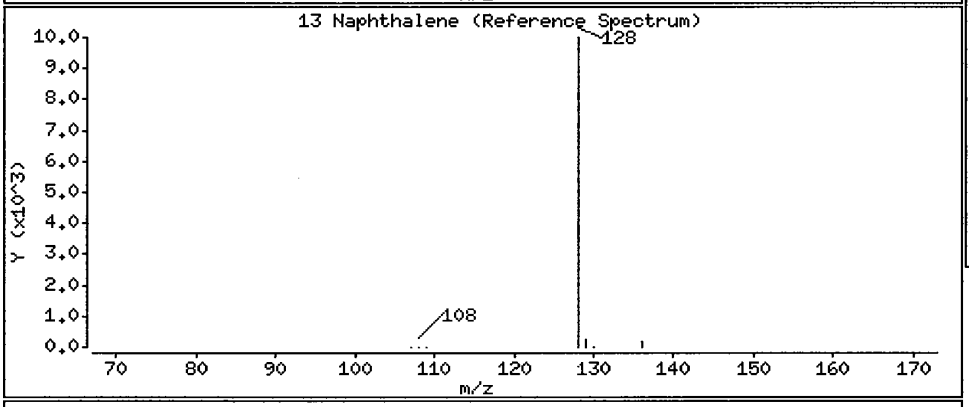
Column diameter: 0.32

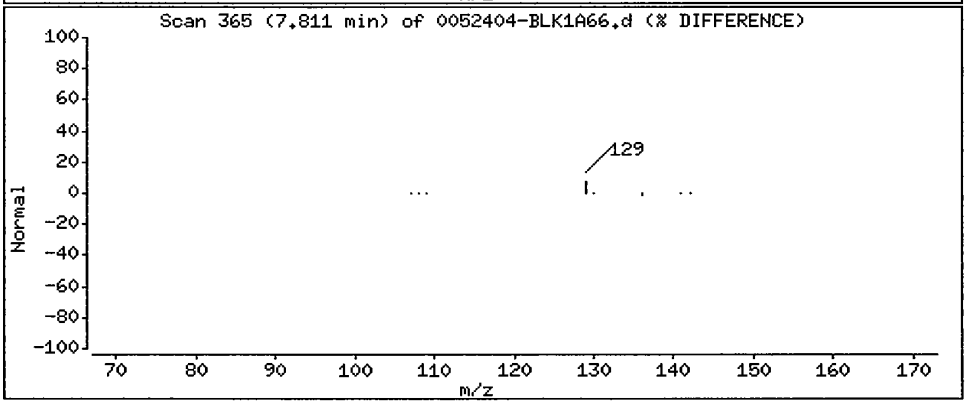
13 Naphthalene

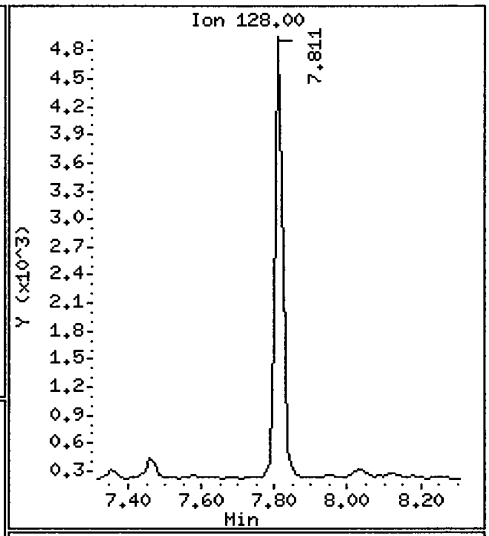
Concentration: 0.79 ug/Kg

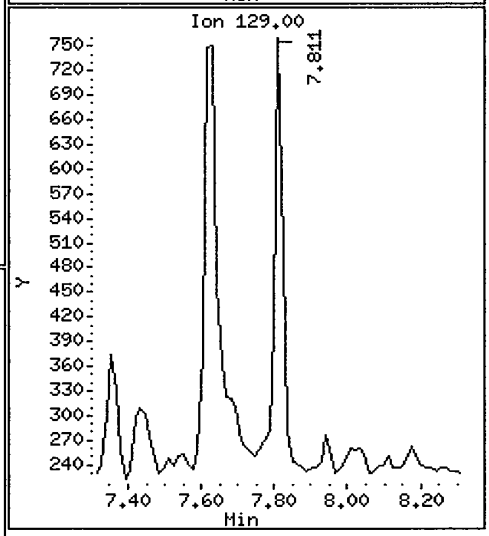












EXTRACTION WORKSHEET

Low Level Soil S-V Method 3550B for 8270C

ASSIGNED TO: T. Williams

CompuChem

DATE/TIME EXTRACTED: 5-24-10 1105

EMP ID NUMBER: 1289

176 SIM 5-24-2

BATCH NO. 0052404

	COMPUCHEM NUMBER	CLIENT SAMPLE ID	QC SAMPLE TYPE	SAMPLE WEIGHT (g)	FINAL VOLUME (ml)	COMMENTS
1	0052404-BLK1	SBLKCD	MB	30.0	1.0	ML 5-24-10
2	0052404-BS1	SCDLCS	LCS	30.0		
3	0052404-BSD1	SCDLCSD	LCSD	30.0		GPC (3640A) PERFORMED Y (N)
4	1005132-15	SS81-0-1	SAMPLE	30.0		
5	1005132-16	SB81-5-6	SAMPLE	30.0		
6	1005132-17	SS71-0-1	SAMPLE	30.0		
7	1005132-18	SS71D-0-1	SAMPLE	30.0		
8	1005132-19	SB71-4-5	SAMPLE	30.0		
9	1005132-20	SB71D-4-5	SAMPLE	30.0	1.0	
10						ML 5-24-10
11						
12						
13						
14						
15		ML 5-24-10				
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						

		SVOA	Others
SURROGATE	NO.	DIL. 393	
	AMT.	0.5 ml	
	LOT	OE20026	
SPIKE	NO.		SIM VALID. SPK
	AMT.		0.5 mL
	LOT		082109-03

FINAL VOLUME VERIFIED: MLH

REVIEWED BY: B. Patterson

SURROGATE & SPIKE ADDED BY: MW, 5-24-10
Initials Date

Witness AM, 5-24-10
Initials Date

Analyst initials. Extracted MW KD BP N2 BP Bottle up ML, VG

Balance ID: STATDENS-BL810

Manufacturer and lot number of reagents/solvents used 50/50 CH_2Cl_2/CH_3COCH_3-2XB-650-9, Na_2SO_4-2XB-650-1

12/29/09: RM

c. Laboratory Control Sample Data

Arranged in chronological order, by extraction date.

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBPLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-BS1JC66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

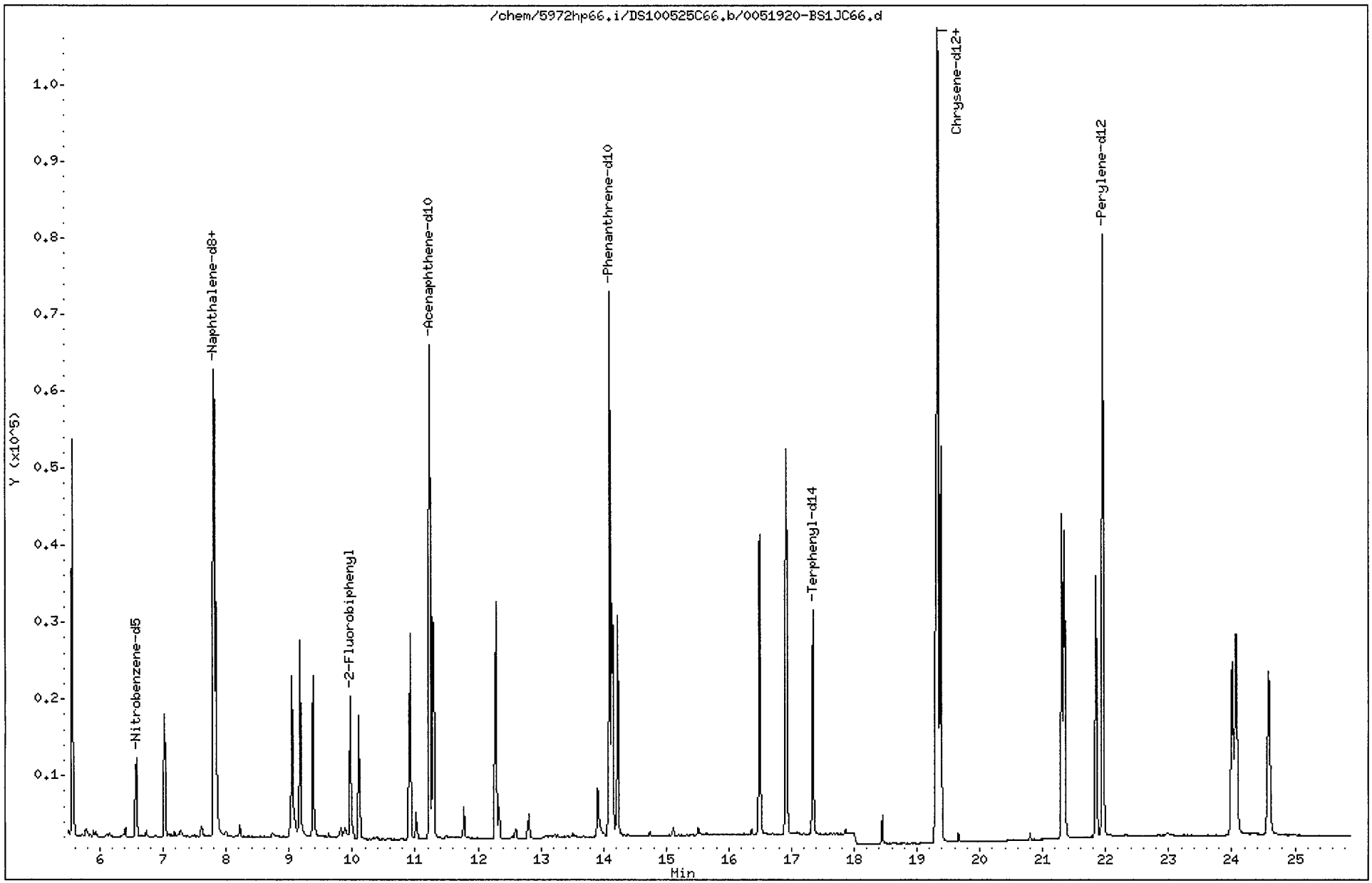
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	10	
91-57-6	2-Methylnaphthalene	9.3	
208-96-8	Acenaphthylene	10	
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	8.6	
85-01-8	Phenanthrene	12	
120-12-7	Anthracene	11	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	11	
56-55-3	Benzo(a)anthracene	14	
218-01-9	Chrysene	13	
205-99-2	Benzo(b)fluoranthene	13	
207-08-9	Benzo(k)fluoranthene	13	
50-32-8	Benzo(a)pyrene	11	
193-39-5	Indeno(1,2,3-cd)pyrene	11	
53-70-3	Dibenzo(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	9.7	

Data File: /chem/5972hp66.i/DS100525C66.b/0051920-BS1JC66.d
Date : 26-MAY-2010 07:21
Client ID: SBPLCS
Sample Info: 0051920-BS1:2743
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2743
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/0051920-BS1JC66.d
Report Date: 01-Jun-2010 18:07

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/0051920-BS1JC66.d
Lab Smp Id: 0051920-BS1 Client Smp ID: SBPLCS
Inj Date : 26-MAY-2010 07:21
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0051920-BS1:2743
Misc Info : SBPLCS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 18:07 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 3 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.560	5.560	(1.000)	27317	2.00000		(a)
*	2 Naphthalene-d8	136	7.802	7.802	(1.000)	94276	2.00000		(a)
*	3 Acenaphthene-d10	164	11.230	11.231	(1.000)	45876	2.00000		(a)
*	4 Phenanthrene-d10	188	14.100	14.101	(1.000)	96377	2.00000		(a)
*	5 Chrysene-d12	240	19.336	19.336	(1.000)	140645	2.00000		(a)
*	6 Perylene-d12	264	21.960	21.961	(1.000)	109682	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.577	6.563	(0.843)	12050	0.57441	9.6	
$	10 2-Fluorobiphenyl	172	9.966	9.966	(0.887)	27063	0.56531	9.4	
$	12 Terphenyl-d14	244	17.347	17.347	(0.897)	36985	0.72374	12	
	13 Naphthalene	128	7.841	7.841	(1.005)	35826	0.61436	10	
	15 2-Methylnaphthalene	141	9.171	9.170	(0.817)	18306	0.55734	9.3	
	17 Acenaphthylene	152	10.917	10.918	(0.972)	31460	0.61392	10	
	18 Acenaphthene	154	11.295	11.283	(1.006)	18808	0.62643	10	

6/1/10

Data File: /chem/5972hp66.i/DS100525C66.b/0051920-BS1JC66.d
Report Date: 01-Jun-2010 18:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	12.285	12.273	(0.871)	23150	0.51324	8.6
25 Phenanthrene	178	14.139	14.140	(1.003)	42155	0.70145	12
26 Anthracene	178	14.231	14.231	(1.009)	35755	0.66144	11
27 Fluoranthene	202	16.499	16.500	(0.853)	60149	0.64496	11
28 Pyrene	202	16.916	16.917	(0.875)	66709	0.65683	11
29 Benzo(a)anthracene	228	19.301	19.301	(0.998)	63123	0.82562	14
30 Chrysene	228	19.380	19.379	(1.002)	63963	0.77240	13
31 Benzo(b)fluoranthene	252	21.307	21.308	(0.970)	58327	0.80636	13
32 Benzo(k)fluoranthene	252	21.351	21.352	(0.972)	59320	0.76207	13
33 Benzo(a)pyrene	252	21.851	21.853	(0.995)	44520	0.68298	11
34 Indeno(1,2,3-cd)pyrene	276	24.007	24.008	(1.093)	37179	0.64651	11
35 Dibenzo(a,h)anthracene	278	24.072	24.073	(1.096)	36162	0.63569	11
36 Benzo(g,h,i)perylene	276	24.583	24.595	(1.119)	37081	0.58176	9.7

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SBPLCSD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-BSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-BSD1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/20/10

Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

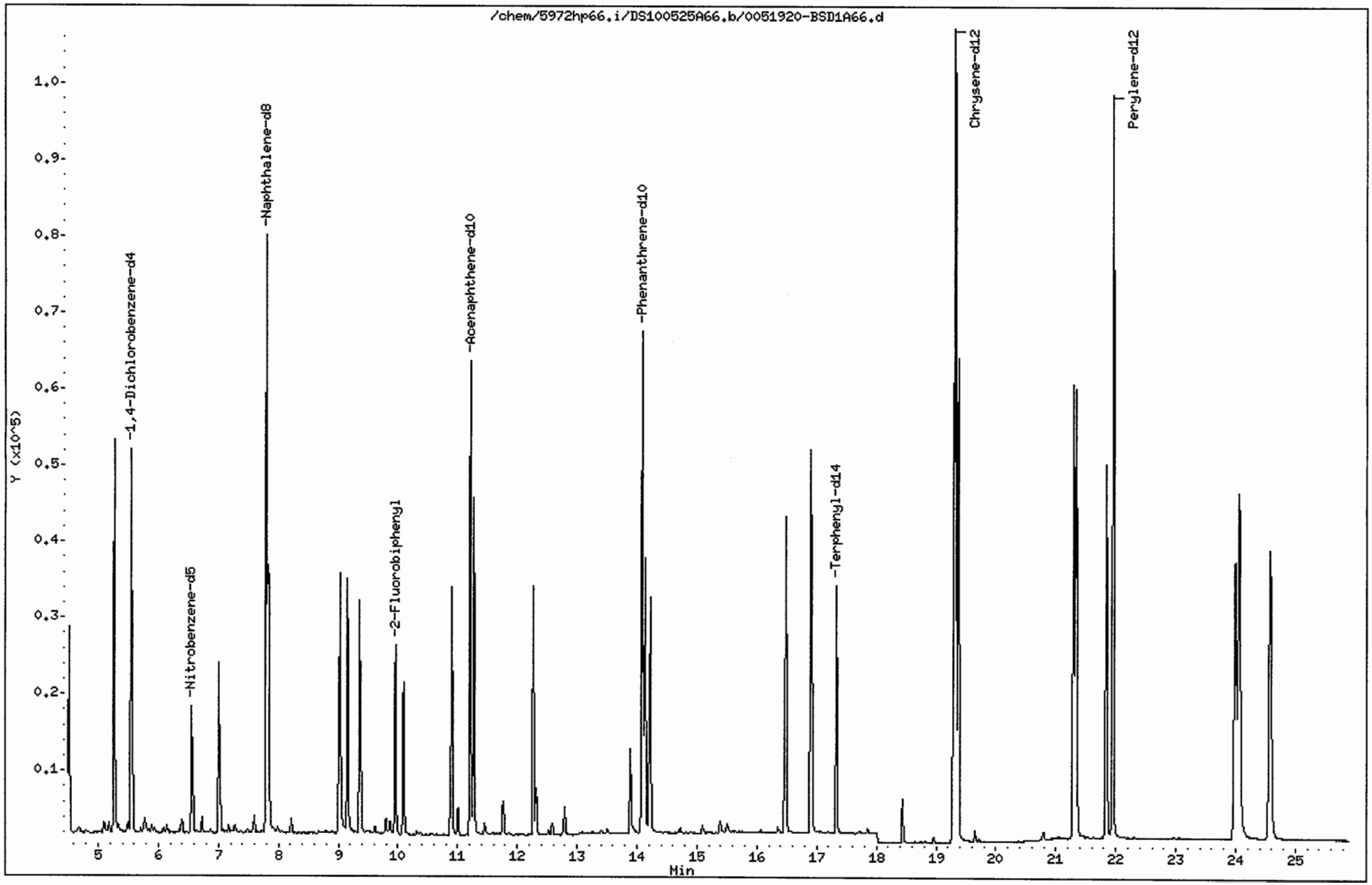
Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	
91-57-6	2-Methylnaphthalene	12	
208-96-8	Acenaphthylene	12	
83-32-9	Acenaphthene	13	
86-73-7	Fluorene	12	
85-01-8	Phenanthrene	15	
120-12-7	Anthracene	13	
206-44-0	Fluoranthene	11	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	16	
218-01-9	Chrysene	16	
205-99-2	Benzo(b)fluoranthene	16	
207-08-9	Benzo(k)fluoranthene	16	
50-32-8	Benzo(a)pyrene	14	
193-39-5	Indeno(1,2,3-cd)pyrene	15	
53-70-3	Dibenzo(a,h)anthracene	15	
191-24-2	Benzo(g,h,i)perylene	14	

Data File: /chem/5972hp66.i/DS100525A66.b/0051920-BSD1A66.d
Date : 26-MAY-2010 00:05
Client ID: SBPLCSD
Sample Info: 0051920-BSD1:2730
Volume Injected (uL): 2.0
Column phase: Rtx-5MS

Instrument: 5972hp66.i
Operator: 2730
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525A66.b/0051920-BSD1A66.d
Report Date: 03-Jun-2010 12:30

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525A66.b/0051920-BSD1A66.d
Lab Smp Id: 0051920-BSD1 Client Smp ID: SBPLCSD
Inj Date : 26-MAY-2010 00:05
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 0051920-BSD1:2730
Misc Info : SBPLCSD
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 10:56 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 7 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-d4	152	5.556	5.548	(1.000)	28030	2.00000	(a)
* 2 Naphthalene-d8	136	7.798	7.803	(1.000)	100906	2.00000	(a)
* 3 Acenaphthene-d10	164	11.218	11.218	(1.000)	46346	2.00000	(a)
* 4 Phenanthrene-d10	188	14.087	14.086	(1.000)	86084	2.00000	(a)
* 5 Chrysene-d12	240	19.319	19.327	(1.000)	137416	2.00000	(a)
* 6 Perylene-d12	264	21.951	21.951	(1.000)	131639	2.00000	(a)
$ 9 Nitrobenzene-d5	82	6.560	6.565	(0.841)	16495	0.73463	12
$ 10 2-Fluorobiphenyl	172	9.962	9.967	(0.888)	26952	0.55729	9.3
$ 12 Terphenyl-d14	244	17.333	17.333	(0.897)	38752	0.77614	13
13 Naphthalene	128	7.825	7.829	(1.003)	50208	0.80442	13
15 2-Methylnaphthalene	141	9.154	9.159	(0.816)	24396	0.73522	12
17 Acenaphthylene	152	10.905	10.905	(0.972)	37540	0.72514	12
18 Acenaphthene	154	11.270	11.283	(1.005)	23567	0.77697	13

Data File: /chem/5972hp66.i/DS100525A66.b/0051920-BSD1A66.d
Report Date: 03-Jun-2010 12:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
21 Fluorene	166	12.274	12.273	(0.871)	28344	0.70353	12
25 Phenanthrene	178	14.126	14.139	(1.003)	47718	0.88896	15
26 Anthracene	178	14.217	14.217	(1.009)	38624	0.79995	13
27 Fluoranthene	202	16.486	16.485	(0.853)	61602	0.67606	11
28 Pyrene	202	16.903	16.916	(0.875)	68840	0.69374	12
29 Benzo(a)anthracene	228	19.292	19.292	(0.999)	72839	0.97509	16
30 Chrysene	228	19.371	19.370	(1.003)	79911	0.98766	16
31 Benzo(b)fluoranthene	252	21.298	21.298	(0.970)	81971	0.94421	16
32 Benzo(k)fluoranthene	252	21.341	21.341	(0.972)	87522	0.93683	16
33 Benzo(a)pyrene	252	21.842	21.842	(0.995)	65377	0.83566	14
34 Indeno(1,2,3-cd)pyrene	276	23.997	23.997	(1.093)	61573	0.89211	15
35 Dibenzo(a,h)anthracene	278	24.062	24.062	(1.096)	60653	0.88838	15
36 Benzo(g,h,i)perylene	276	24.574	24.585	(1.119)	66144	0.86464	14

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SCDLCS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052404-BS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0052404-BS1JC66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/24/10

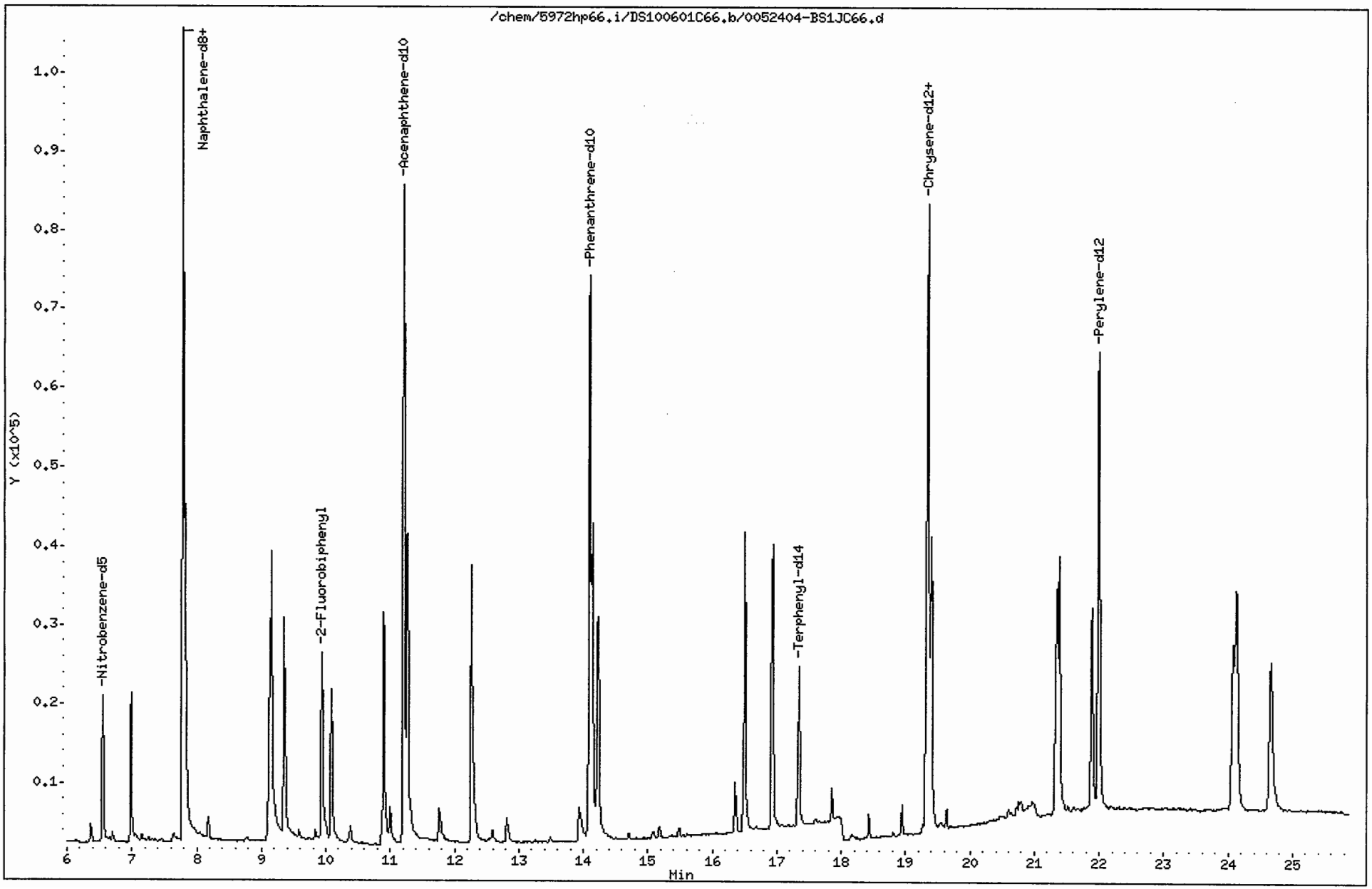
Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	9.8	
208-96-8	Acenaphthylene	9.7	
83-32-9	Acenaphthene	9.2	
86-73-7	Fluorene	9.1	
85-01-8	Phenanthrene	10	
120-12-7	Anthracene	12	
206-44-0	Fluoranthene	12	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	13	
218-01-9	Chrysene	13	
205-99-2	Benzo(b)fluoranthene	11	
207-08-9	Benzo(k)fluoranthene	14	
50-32-8	Benzo(a)pyrene	12	
193-39-5	Indeno(1,2,3-cd)pyrene	13	
53-70-3	Dibenzo(a,h)anthracene	12	
191-24-2	Benzo(g,h,i)perylene	12	

Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BS1JC66.d
Date : 02-JUN-2010 01:05
Client ID: SCDLCS
Instrument: 5972hp66.i
Sample Info: 0052404-BS1:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BS1JC66.d
Report Date: 07-Jun-2010 11:47

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601C66.b/0052404-BS1JC66.d
Lab Smp Id: 0052404-BS1 Client Smp ID: SCDLCS
Inj Date : 02-JUN-2010 01:05
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0052404-BS1:2743
Misc Info : SCDLCS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601C66.b/SIM_8270Cv2DOD.m
Meth Date : 07-Jun-2010 10:54 mead Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: einstein

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.545	5.534	(1.000)	50812	2.00000		(a)
* 2 Naphthalene-d8	136	7.787	7.789	(1.000)	153614	2.00000		(a)
* 3 Acenaphthene-d10	164	11.205	11.205	(1.000)	80343	2.00000		(a)
* 4 Phenanthrene-d10	188	14.100	14.100	(1.000)	145139	2.00000		(a)
* 5 Chrysene-d12	240	19.345	19.354	(1.000)	124412	2.00000		(a)
* 6 Perylene-d12	264	21.995	21.994	(1.000)	109233	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.549	6.537	(0.841)	21764	0.63671	11	
$ 10 2-Fluorobiphenyl	172	9.938	9.940	(0.887)	34151	0.40734	6.8	(R)
$ 12 Terphenyl-d14	244	17.346	17.346	(0.897)	32091	0.70991	12	
13 Naphthalene	128	7.813	7.815	(1.003)	60527	0.63701	11	
15 2-Methylnaphthalene	141	9.143	9.144	(0.816)	33874	0.58888	9.8	
17 Acenaphthylene	152	10.892	10.905	(0.972)	52167	0.58128	9.7	

pm 6/8/10

Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BS1JC66.d
Report Date: 07-Jun-2010 11:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
18 Acenaphthene	154	11.270	11.270	(1.006)	28921	0.55002	9.2
21 Fluorene	166	12.261	12.274	(0.870)	36946	0.54391	9.1
25 Phenanthrene	178	14.139	14.139	(1.003)	55266	0.61065	10
26 Anthracene	178	14.230	14.230	(1.009)	58197	0.71490	12
27 Fluoranthene	202	16.499	16.499	(0.853)	61437	0.74472	12
28 Pyrene	202	16.929	16.929	(0.875)	62613	0.69694	12
29 Benzo(a)anthracene	228	19.318	19.319	(0.999)	52063	0.76981	13
30 Chrysene	228	19.397	19.397	(1.003)	55517	0.75788	13
31 Benzo(b)fluoranthene	252	21.331	21.330	(0.970)	45894	0.63708	11
32 Benzo(k)fluoranthene	252	21.374	21.374	(0.972)	64707	0.83469	14
33 Benzo(a)pyrene	252	21.886	21.885	(0.995)	45308	0.69793	12
34 Indeno(1,2,3-cd)pyrene	276	24.073	24.073	(1.095)	46253	0.80761	13(M)
35 Dibenzo(a,h)anthracene	278	24.128	24.127	(1.097)	41843	0.73858	12
36 Benzo(g,h,i)perylene	276	24.661	24.661	(1.121)	44874	0.70692	12

2

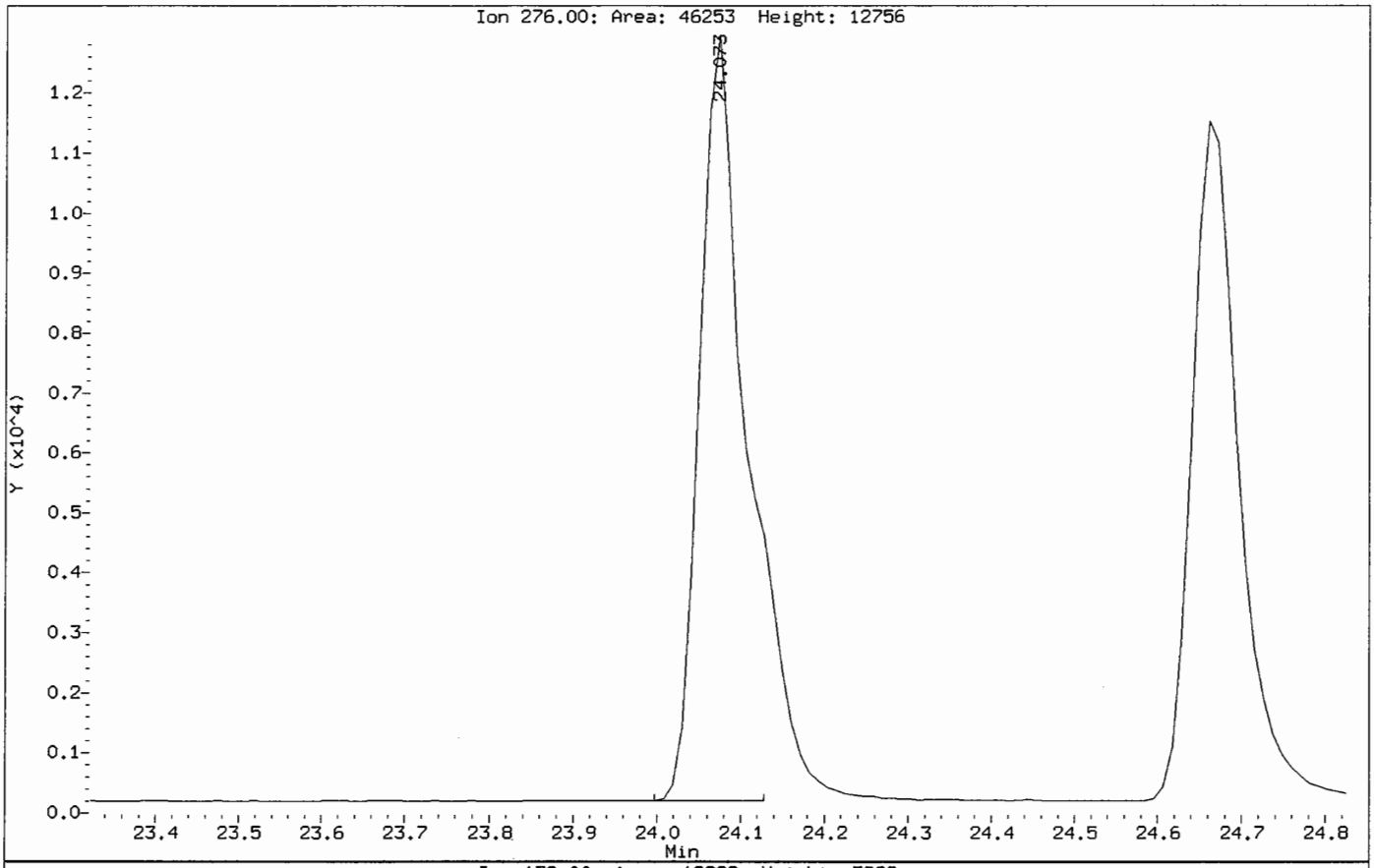
pm 6/8/10

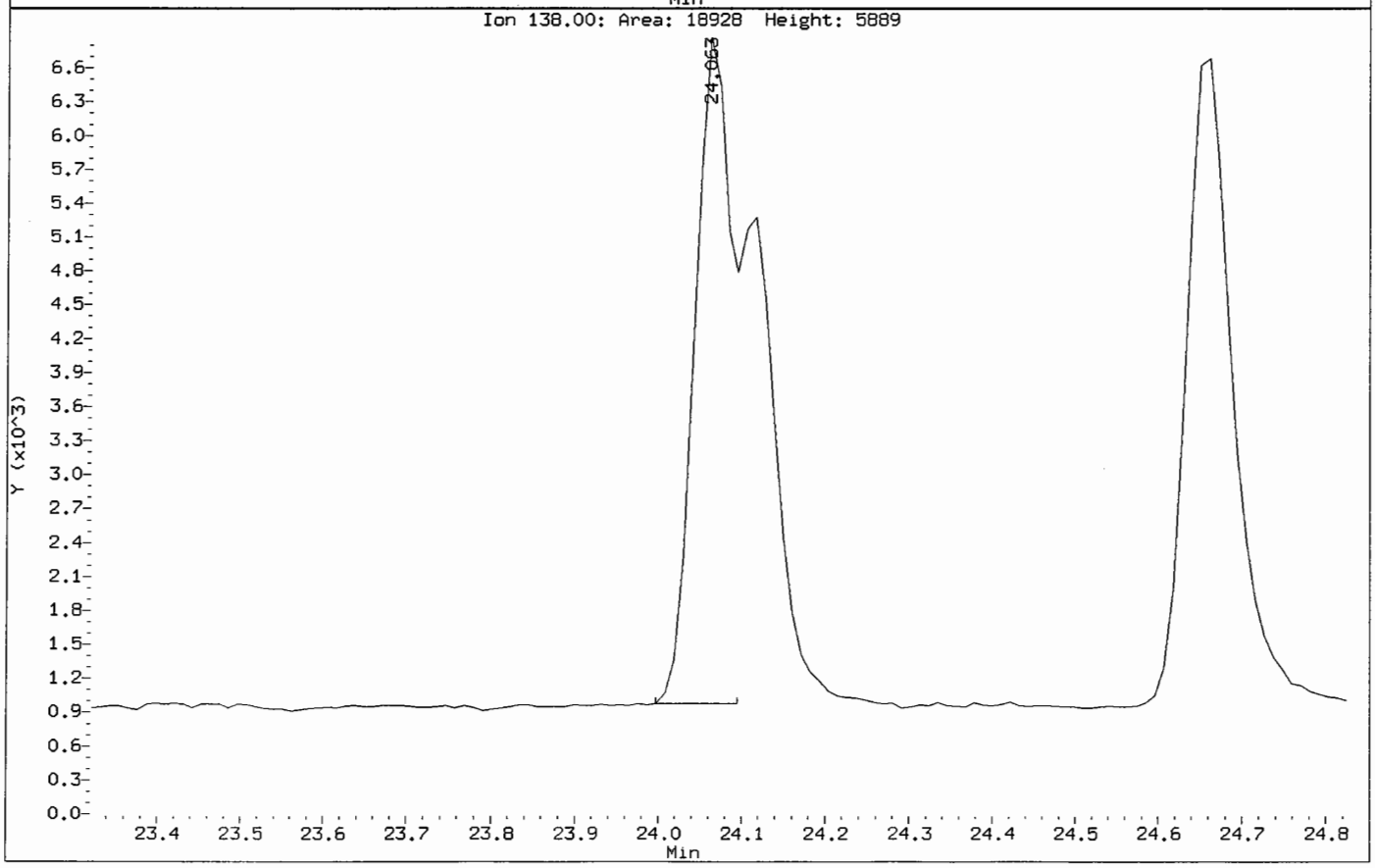
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BS1JC66.d
Injection Date: 02-JUN-2010 01:05
Instrument: 5972hp66.i
Client Sample ID: SCDLCS

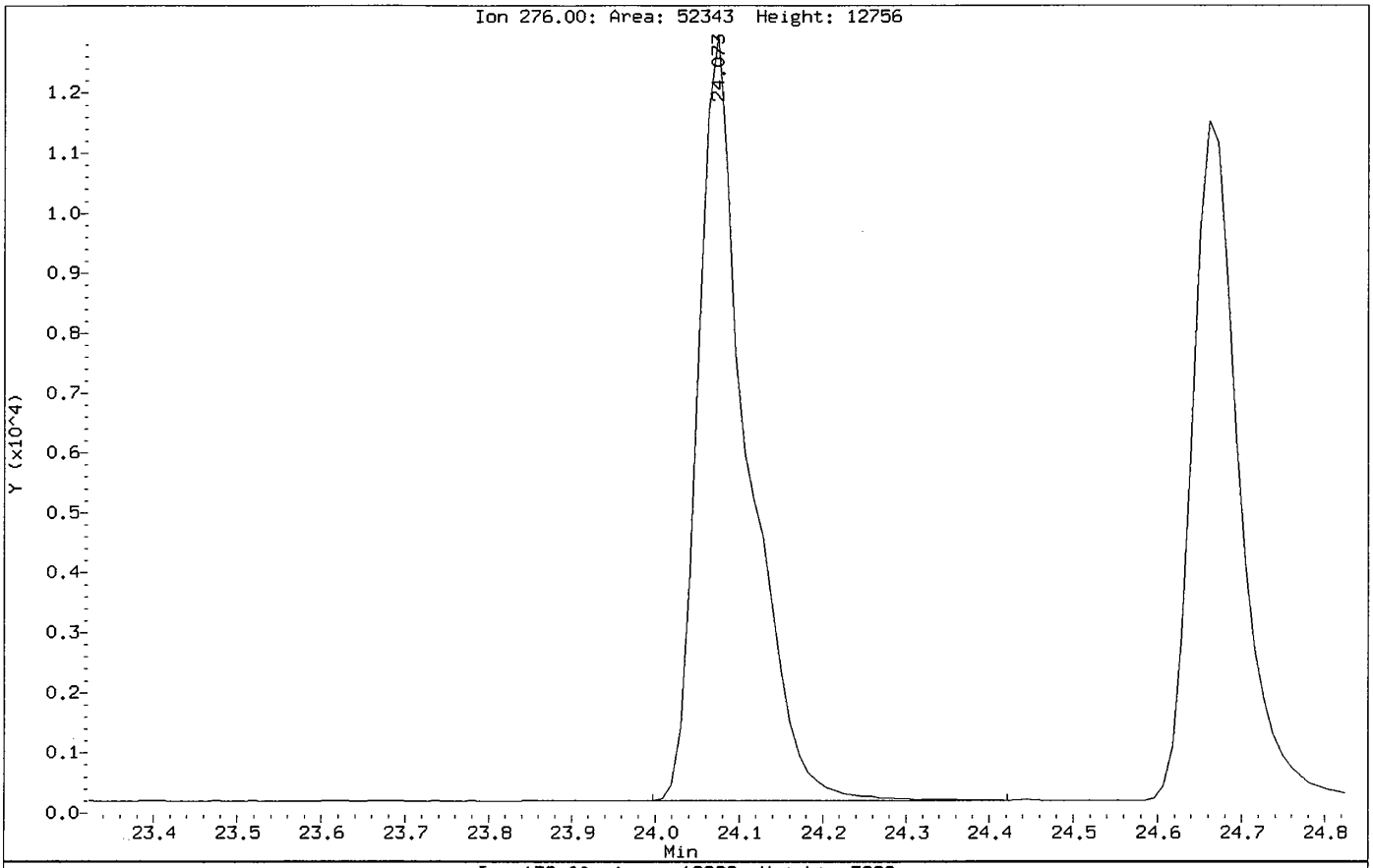
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5

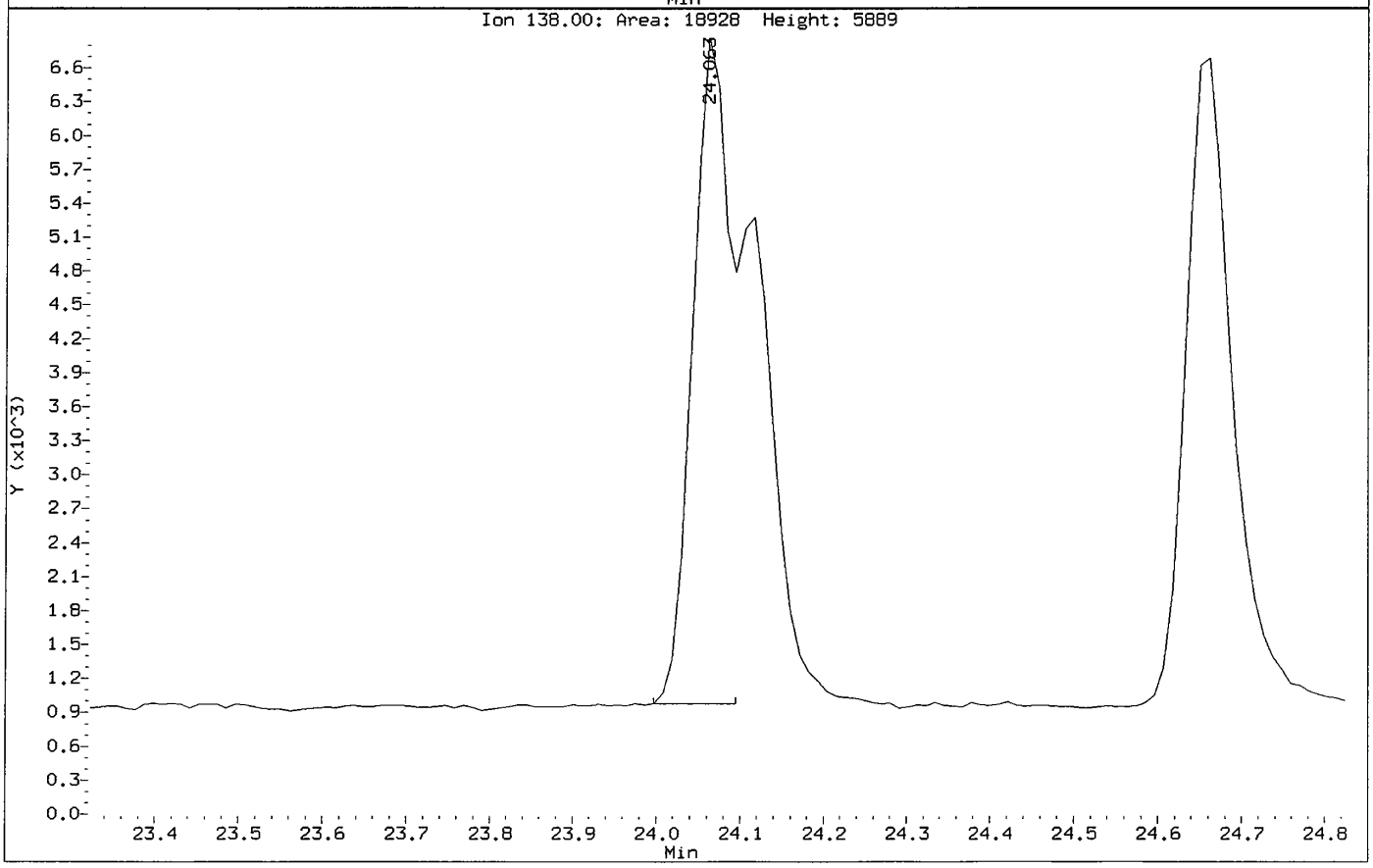




Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BS1JC66.d
Injection Date: 02-JUN-2010 01:05
Instrument: 5972hp66.i
Client Sample ID: SCDLCS

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

SCDLCSD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0052404-BSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0052404-BSD1JC66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted:05/24/10

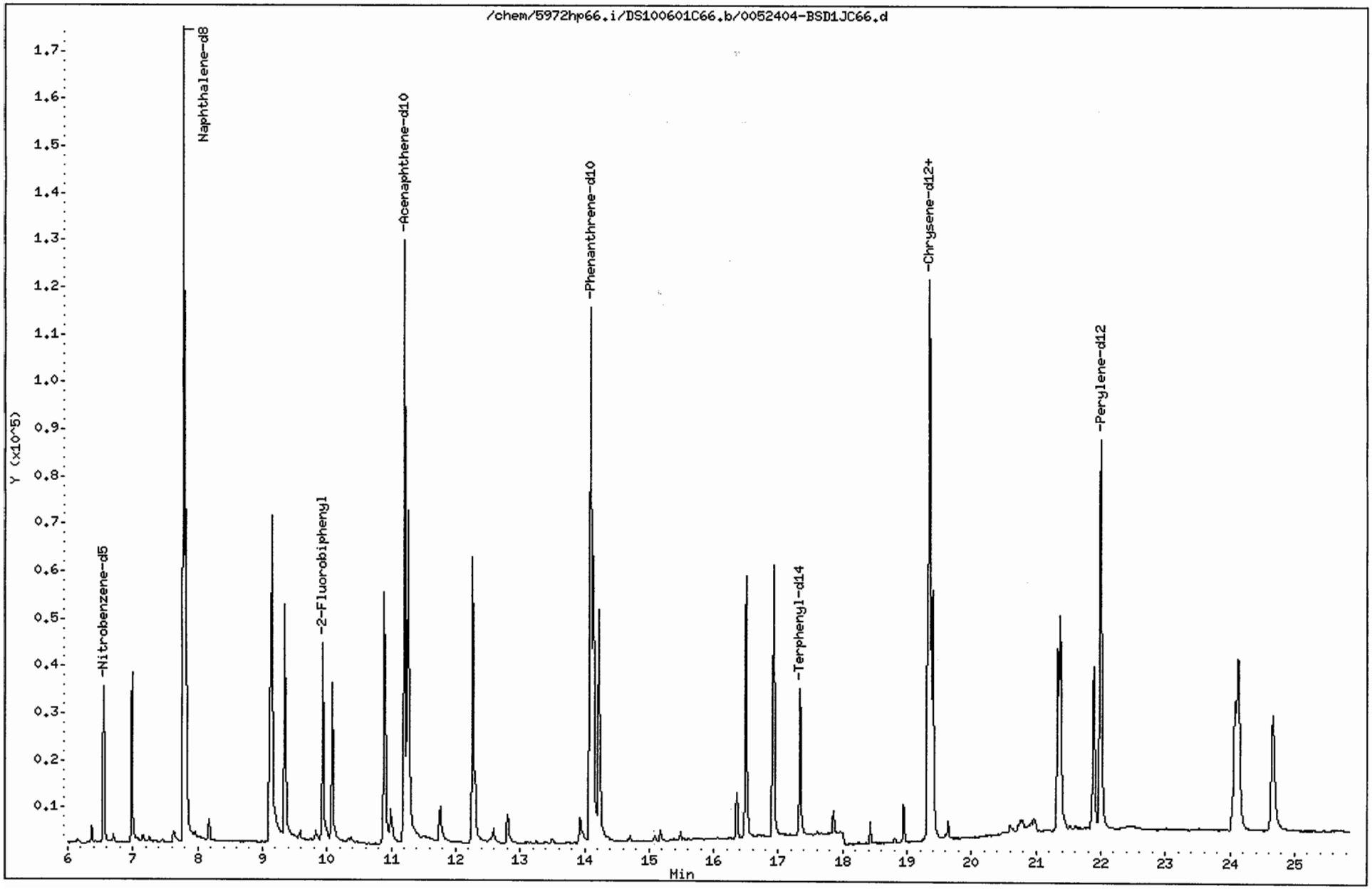
Concentrated Extract Volume: 1000(uL) Date Analyzed: 06/02/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	11	
91-57-6	2-Methylnaphthalene	11	
208-96-8	Acenaphthylene	11	
83-32-9	Acenaphthene	10	
86-73-7	Fluorene	9.9	
85-01-8	Phenanthrene	11	
120-12-7	Anthracene	13	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	12	
56-55-3	Benzo(a)anthracene	13	
218-01-9	Chrysene	13	
205-99-2	Benzo(b)fluoranthene	10	
207-08-9	Benzo(k)fluoranthene	14	
50-32-8	Benzo(a)pyrene	11	
193-39-5	Indeno(1,2,3-cd)pyrene	12	
53-70-3	Dibenzo(a,h)anthracene	11	
191-24-2	Benzo(g,h,i)perylene	11	

Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BSD1JC66.d
Date : 02-JUN-2010 01:39
Client ID: SCDLCSD
Instrument: 5972hp66.i
Sample Info: 0052404-BSD1:2743
Volume Injected (uL): 2.0
Operator: 2743
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BSD1JC66.d
Report Date: 07-Jun-2010 11:47

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100601C66.b/0052404-BSD1JC66.d
Lab Smp Id: 0052404-BSD1 Client Smp ID: SCDLCSD
Inj Date : 02-JUN-2010 01:39
Operator : 2743 Inst ID: 5972hp66.i
Smp Info : 0052404-BSD1:2743
Misc Info : SCDLCSD
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100601C66.b/SIM_8270Cv2DOD.m
Meth Date : 07-Jun-2010 10:54 mead Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: einstein

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	0.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.544	5.534	(1.000)	73635	2.00000		(a)
* 2 Naphthalene-d8	136	7.786	7.789	(1.000)	241006	2.00000		(a)
* 3 Acenaphthene-d10	164	11.204	11.205	(1.000)	117641	2.00000		(a)
* 4 Phenanthrene-d10	188	14.087	14.100	(1.000)	212603	2.00000		(a)
* 5 Chrysene-d12	240	19.345	19.354	(1.000)	174484	2.00000		(a)
* 6 Perylene-d12	264	21.993	21.994	(1.000)	157074	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.547	6.537	(0.841)	36837	0.68689	11	
$ 10 2-Fluorobiphenyl	172	9.936	9.940	(0.887)	54807	0.44645	7.4	(R)
$ 12 Terphenyl-d14	244	17.334	17.346	(0.896)	45628	0.71971	12	
13 Naphthalene	128	7.812	7.815	(1.003)	99300	0.66612	11	
15 2-Methylnaphthalene	141	9.141	9.144	(0.816)	55861	0.66322	11	
17 Acenaphthylene	152	10.891	10.905	(0.972)	84547	0.64339	11	

pm 6/8/10

Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BSD1JC66.d
Report Date: 07-Jun-2010 11:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
18 Acenaphthene	154	11.256	11.270	(1.005)	46484	0.60375	10
21 Fluorene	166	12.259	12.274	(0.870)	59066	0.59362	9.9
25 Phenanthrene	178	14.140	14.139	(1.004)	88347	0.66641	11
26 Anthracene	178	14.218	14.230	(1.009)	89894	0.75386	13
27 Fluoranthene	202	16.499	16.499	(0.853)	90627	0.78330	13
28 Pyrene	202	16.930	16.929	(0.875)	94457	0.74967	12
29 Benzo(a)anthracene	228	19.319	19.319	(0.999)	75518	0.79618	13
30 Chrysene	228	19.397	19.397	(1.003)	78682	0.76587	13
31 Benzo(b)fluoranthene	252	21.340	21.330	(0.970)	63127	0.60940	10
32 Benzo(k)fluoranthene	252	21.373	21.374	(0.972)	91187	0.81800	14
33 Benzo(a)pyrene	252	21.884	21.885	(0.995)	63103	0.67598	11
34 Indeno(1,2,3-cd)pyrene	276	24.072	24.073	(1.095)	61215	0.74331	12(M)
35 Dibenzo(a,h)anthracene	278	24.127	24.127	(1.097)	55591	0.68239	11
36 Benzo(g,h,i)perylene	276	24.660	24.661	(1.121)	60242	0.65997	11

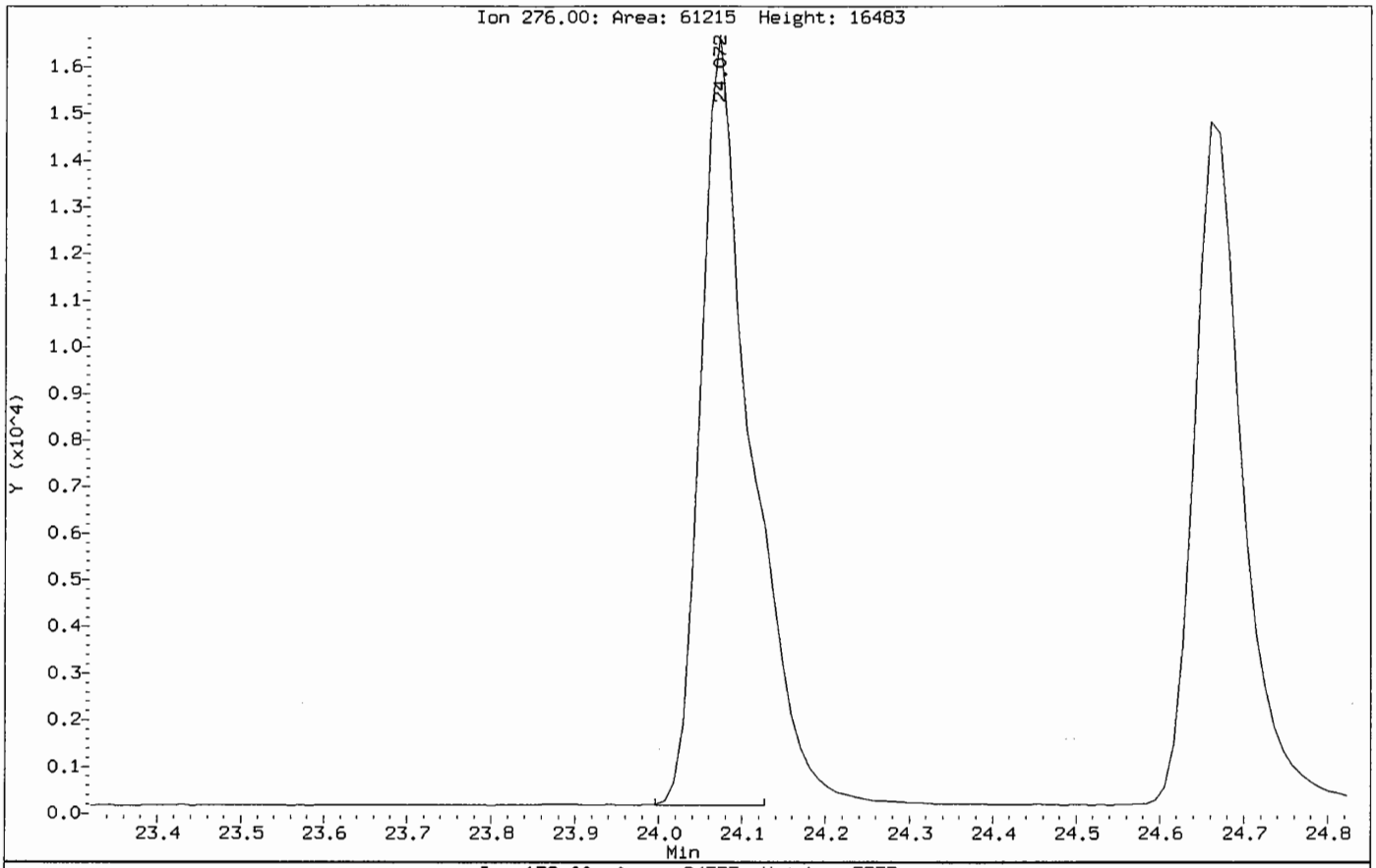
2
RM
6/8/10

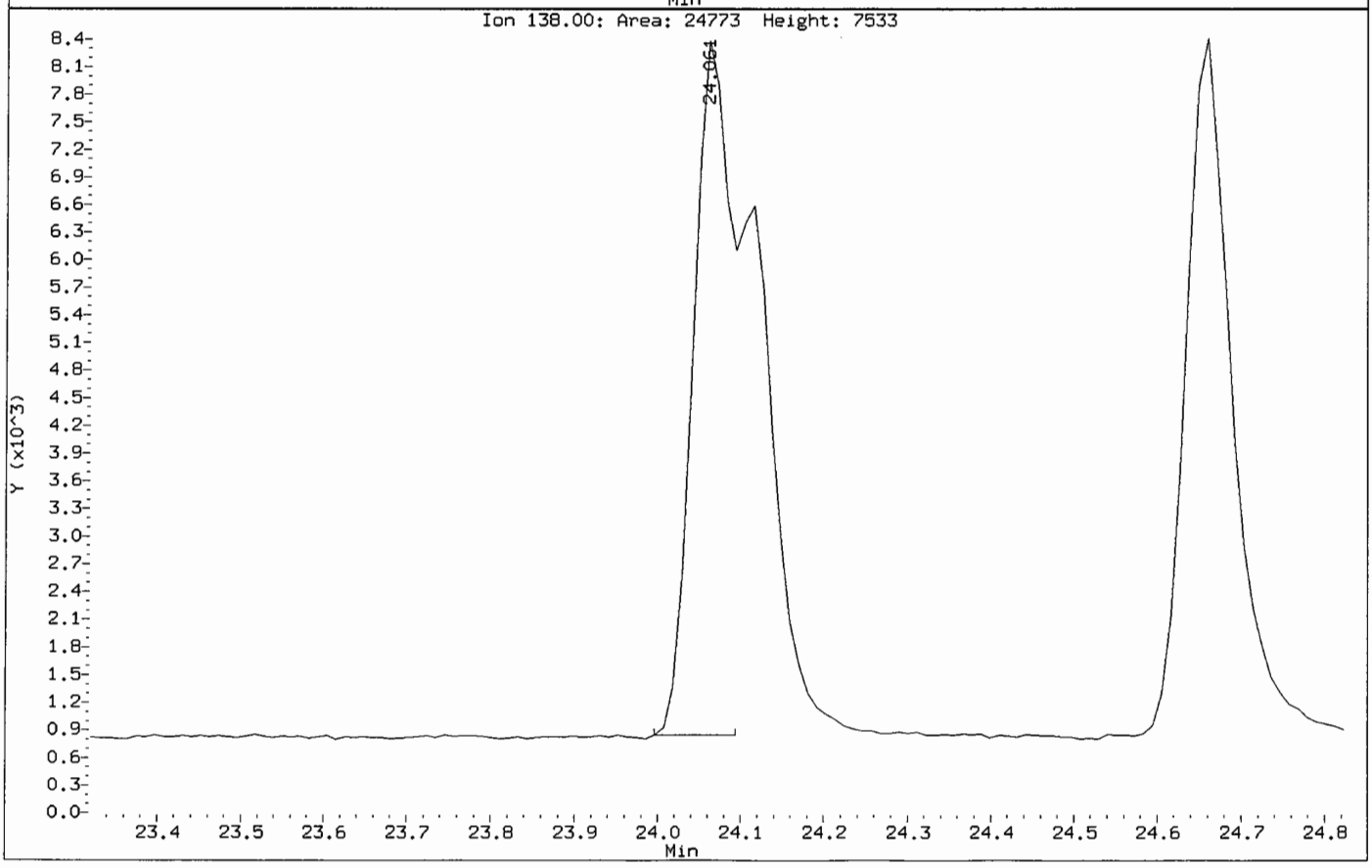
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BSD1JC66.d
Injection Date: 02-JUN-2010 01:39
Instrument: 5972hp66.i
Client Sample ID: SCDLCSD

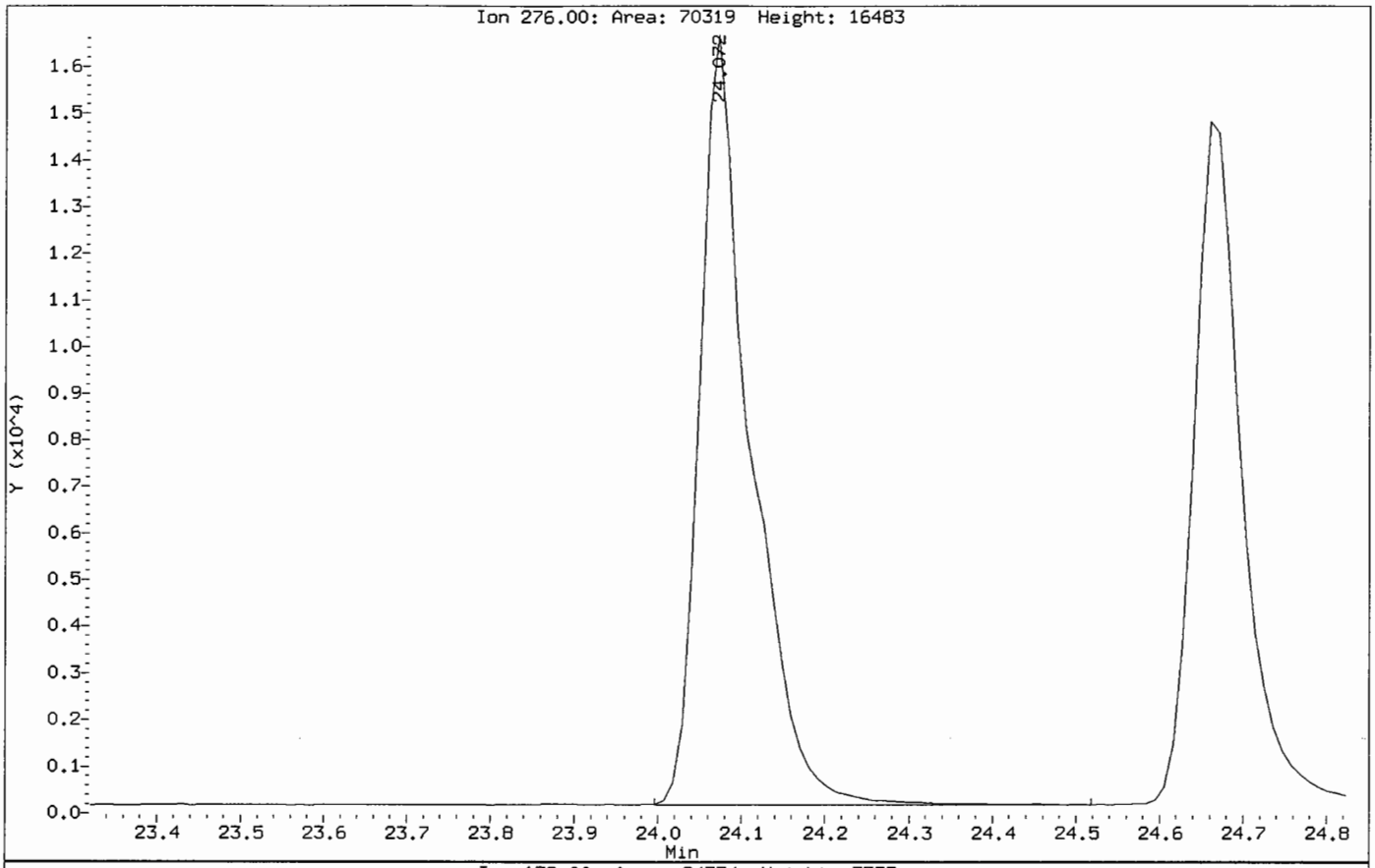
Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5

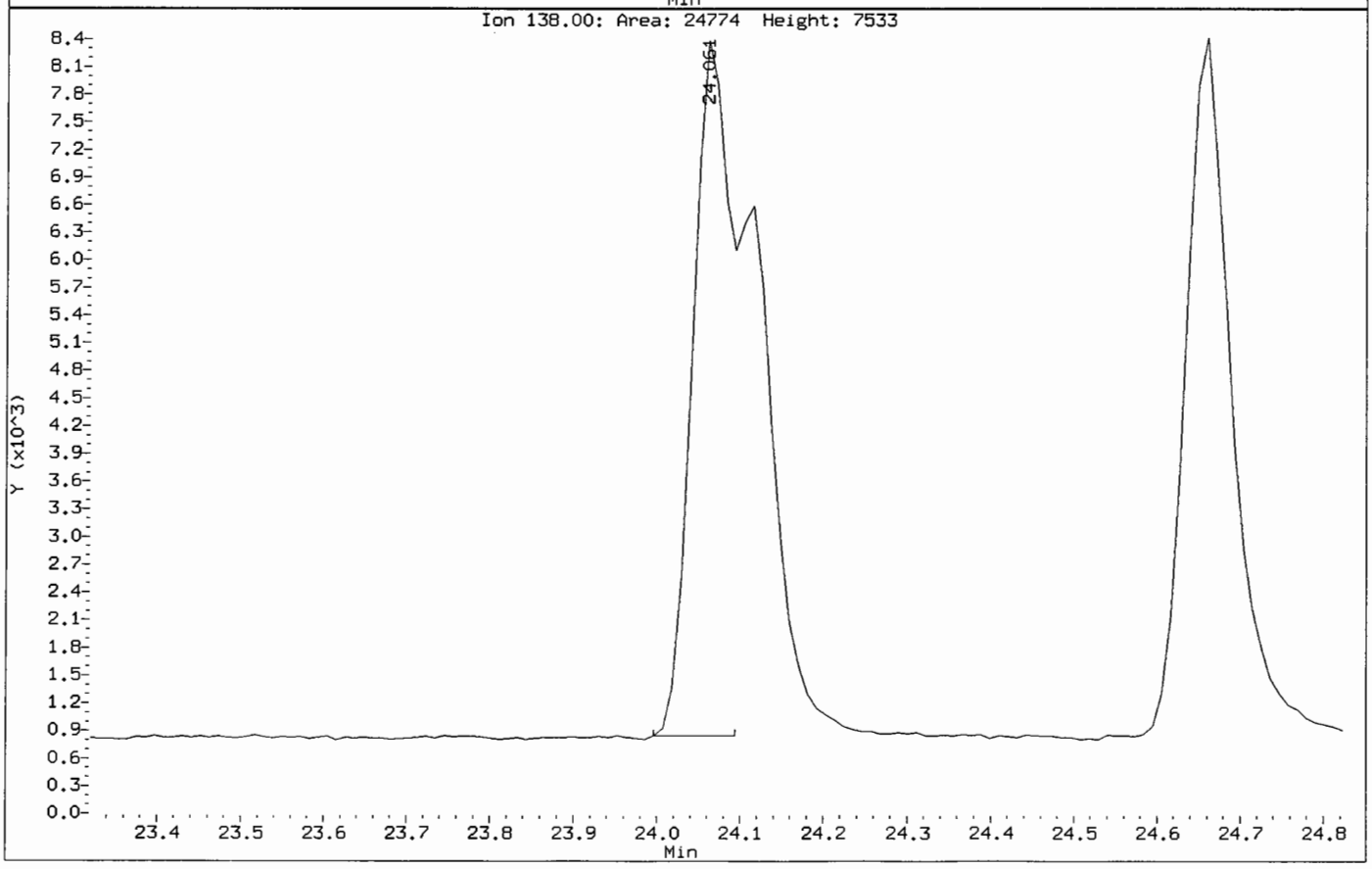




Data File: /chem/5972hp66.i/DS100601C66.b/0052404-BSD1JC66.d
Injection Date: 02-JUN-2010 01:39
Instrument: 5972hp66.i
Client Sample ID: SCDLCSD

Compound: Indeno(1,2,3-cd)pyrene
CAS Number: 193-39-5





d. Matrix Spike Data

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB85-1.5-2.5MS

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-MS1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-MS1JC66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted:05/20/10

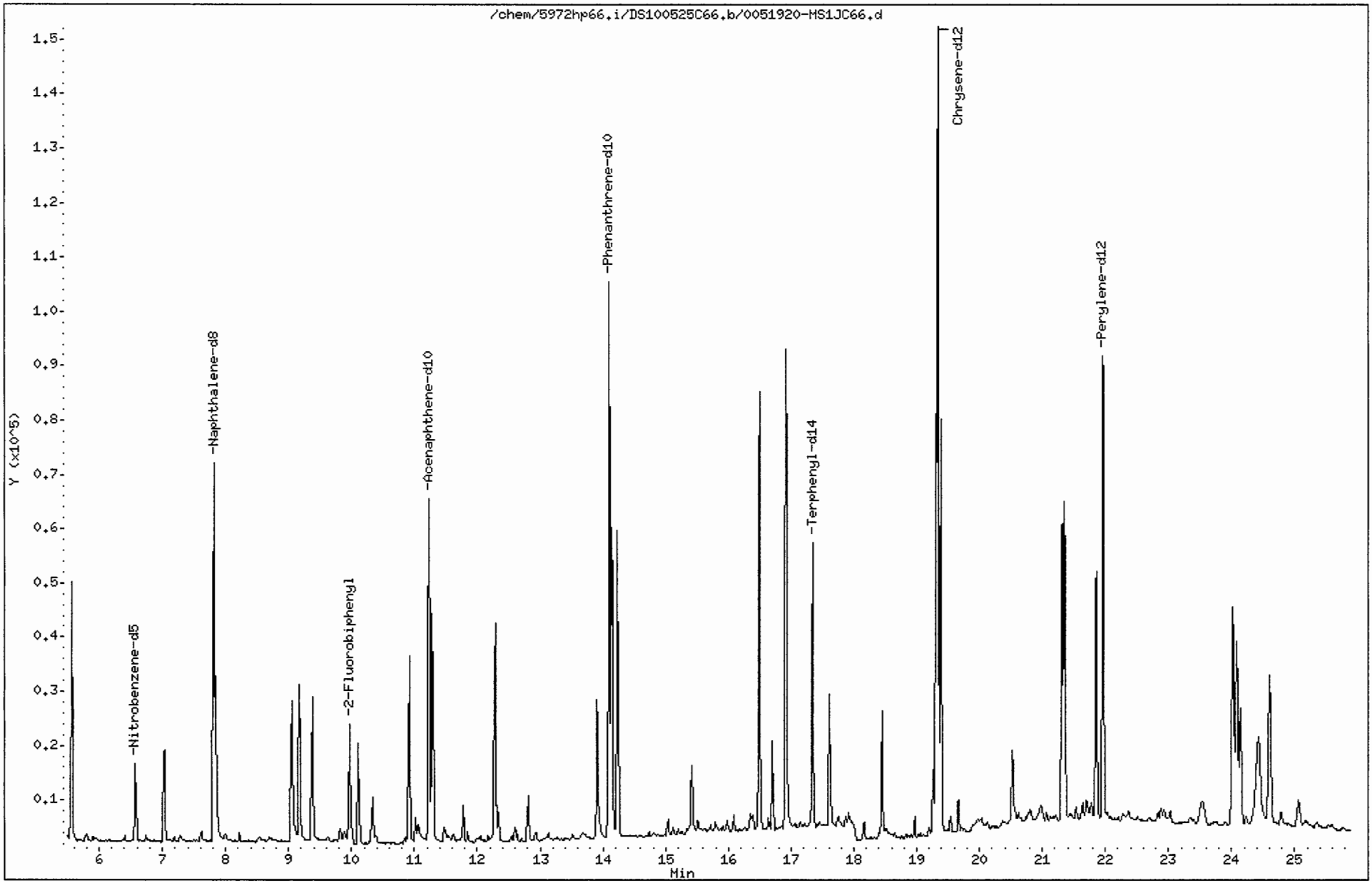
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	14	
91-57-6	2-Methylnaphthalene	13	
208-96-8	Acenaphthylene	15	
83-32-9	Acenaphthene	16	
86-73-7	Fluorene	9.9	J
85-01-8	Phenanthrene	18	
120-12-7	Anthracene	18	
206-44-0	Fluoranthene	19	
129-00-0	Pyrene	18	
56-55-3	Benzo(a)anthracene	20	
218-01-9	Chrysene	18	
205-99-2	Benzo(b)fluoranthene	19	
207-08-9	Benzo(k)fluoranthene	20	
50-32-8	Benzo(a)pyrene	17	
193-39-5	Indeno(1,2,3-cd)pyrene	14	
53-70-3	Dibenzo(a,h)anthracene	13	
191-24-2	Benzo(g,h,i)perylene	12	

Data File: /chem/5972hp66.i/DS100525C66.b/0051920-MS1JC66.d
Date : 26-MAY-2010 13:35
Client ID: SB85-1.5-2.5MS
Instrument: 5972hp66.i
Sample Info: 0051920-MS1:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100525C66.b/0051920-MS1JC66.d
Report Date: 01-Jun-2010 18:07

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100525C66.b/0051920-MS1JC66.d
Lab Smp Id: 0051920-MS1 Client Smp ID: SB85-1.5-2.5MS
Inj Date : 26-MAY-2010 13:35
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 0051920-MS1:2730
Misc Info : SB85-1.5-2.5MS
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100525C66.b/SIM_8270Cv2DOD.m
Meth Date : 01-Jun-2010 18:07 byrd Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 3 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
* 1 1,4-Dichlorobenzene-d4	152	5.570	5.560	(1.000)	28525	2.00000		(a)
* 2 Naphthalene-d8	136	7.812	7.802	(1.000)	94599	2.00000		(a)
* 3 Acenaphthene-d10	164	11.230	11.231	(1.000)	47756	2.00000		(a)
* 4 Phenanthrene-d10	188	14.101	14.101	(1.000)	140369	2.00000		(a)
* 5 Chrysene-d12	240	19.337	19.336	(1.000)	185672	2.00000		(a)
* 6 Perylene-d12	264	21.961	21.961	(1.000)	127260	2.00000		(a)
$ 9 Nitrobenzene-d5	82	6.574	6.563	(0.841)	15798	0.75050	15	
$ 10 2-Fluorobiphenyl	172	9.963	9.966	(0.887)	34762	0.69755	14	
$ 12 Terphenyl-d14	244	17.347	17.347	(0.897)	62696	0.92935	19	
13 Naphthalene	128	7.838	7.841	(1.003)	39619	0.67709	14	
15 2-Methylnaphthalene	141	9.168	9.170	(0.816)	21824	0.63829	13	
17 Acenaphthylene	152	10.917	10.918	(0.972)	41071	0.76992	15	
18 Acenaphthene	154	11.282	11.283	(1.005)	24226	0.77512	16	

Data File: /chem/5972hp66.i/DS100525C66.b/0051920-MS1JC66.d
Report Date: 01-Jun-2010 18:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)
21 Fluorene	166	12.286	12.273	(0.871)	32484	0.49447	9.9(aR)
25 Phenanthrene	178	14.140	14.140	(1.003)	80226	0.91657	18
26 Anthracene	178	14.231	14.231	(1.009)	70987	0.90164	18
27 Fluoranthene	202	16.500	16.500	(0.853)	114063	0.92646	19
28 Pyrene	202	16.917	16.917	(0.875)	121761	0.90814	18
29 Benzo(a)anthracene	228	19.302	19.301	(0.998)	98866	0.97953	20
30 Chrysene	228	19.389	19.379	(1.003)	99048	0.90602	18
31 Benzo(b)fluoranthene	252	21.318	21.308	(0.971)	78679	0.93748	19
32 Benzo(k)fluoranthene	252	21.351	21.352	(0.972)	91839	1.01686	20
33 Benzo(a)pyrene	252	21.863	21.853	(0.996)	64959	0.85889	17
34 Indeno(1,2,3-cd)pyrene	276	24.018	24.008	(1.094)	47240	0.70800	14
35 Dibenzo(a,h)anthracene	278	24.083	24.073	(1.097)	44053	0.66744	13
36 Benzo(g,h,i)perylene	276	24.605	24.595	(1.120)	45890	0.62052	12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

e. Matrix Spike Duplicate Data

- Tabulated Results (Form I SV)

- Chromatogram and quantitation report

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
SB85-1.5-2.5MSD

Lab Name: COMPUCHEM Method: 8270C-SIM

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix: (soil/water) SOIL Lab Sample ID: 0051920-MSD1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: 0051920-MSD1JA66

Level: (low/med) LOW Date Received: 05/14/10

% Moisture: 17 decanted: (Y/N) N Date Extracted:05/20/10

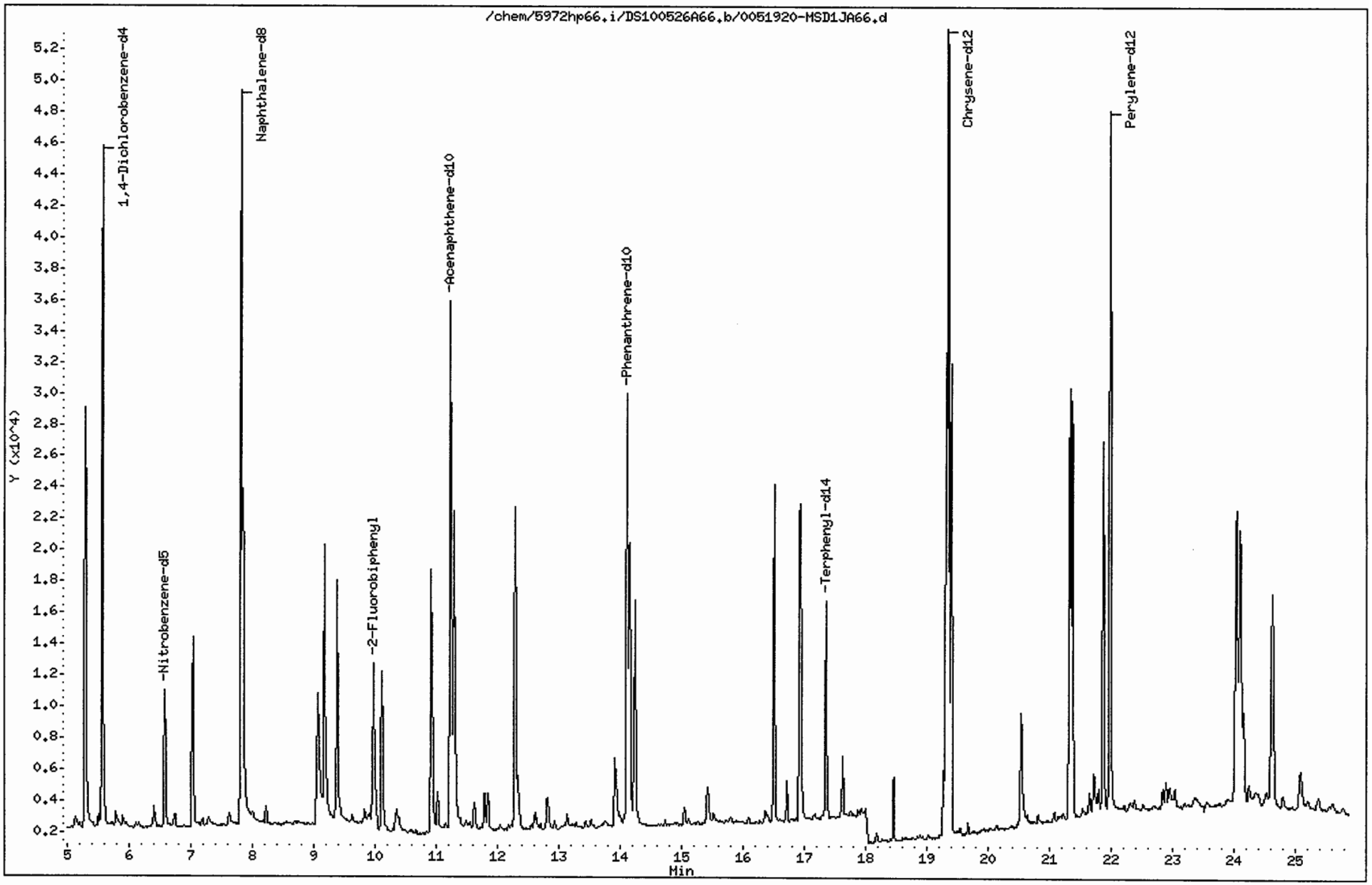
Concentrated Extract Volume: 1000(uL) Date Analyzed: 05/26/10

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
91-20-3	Naphthalene	13	
91-57-6	2-Methylnaphthalene	14	
208-96-8	Acenaphthylene	15	
83-32-9	Acenaphthene	15	
86-73-7	Fluorene	16	
85-01-8	Phenanthrene	18	
120-12-7	Anthracene	18	
206-44-0	Fluoranthene	13	
129-00-0	Pyrene	13	
56-55-3	Benzo(a)anthracene	20	
218-01-9	Chrysene	18	
205-99-2	Benzo(b)fluoranthene	19	
207-08-9	Benzo(k)fluoranthene	17	
50-32-8	Benzo(a)pyrene	16	
193-39-5	Indeno(1,2,3-cd)pyrene	15	
53-70-3	Dibenzo(a,h)anthracene	14	
191-24-2	Benzo(g,h,i)perylene	13	

Data File: /chem/5972hp66.i/DS100526A66.b/0051920-MSD1JA66.d
Date : 26-MAY-2010 18:35
Client ID: SB85-1.5-2.5MSD
Instrument: 5972hp66.i
Sample Info: 0051920-MSD1:2730
Volume Injected (uL): 2.0
Operator: 2730
Column phase: Rtx-5MS
Column diameter: 0.32



Data File: /chem/5972hp66.i/DS100526A66.b/0051920-MSD1JA66.d
Report Date: 03-Jun-2010 16:27

CompuChem

Semivolatile Report SW-846 Method 8270C

Data file : /chem/5972hp66.i/DS100526A66.b/0051920-MSD1JA66.d
Lab Smp Id: 0051920-MSD1 Client Smp ID: SB85-1.5-2.5MSD
Inj Date : 26-MAY-2010 18:35
Operator : 2730 Inst ID: 5972hp66.i
Smp Info : 0051920-MSD1:2730
Misc Info : SB85-1.5-2.5MSD
Comment : 2008 MDLS Selective Ion Monitoring (SIM) - 2 uL
Method : /chem/5972hp66.i/DS100526A66.b/SIM_8270Cv2DOD.m
Meth Date : 03-Jun-2010 15:45 henning Quant Type: ISTD
Cal Date : 25-MAY-2010 08:16 Cal File: 0E25001-CAL2C66.d
Als bottle: 2 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAH.sub
Target Version: 3.50
Processing Host: einstein

Concentration Formula: Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariab

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vt	1000.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	17.00000	% Moisture

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	
*	1 1,4-Dichlorobenzene-d4	152	5.574	5.558	(1.000)	26595	2.00000		(a)
*	2 Naphthalene-d8	136	7.816	7.813	(1.000)	68707	2.00000		(a)
*	3 Acenaphthene-d10	164	11.230	11.231	(1.000)	29920	2.00000		(a)
*	4 Phenanthrene-d10	188	14.113	14.099	(1.000)	48309	2.00000		(a)
*	5 Chrysene-d12	240	19.344	19.336	(1.000)	69271	2.00000		(a)
*	6 Perylene-d12	264	21.972	21.973	(1.000)	64943	2.00000		(a)
$	9 Nitrobenzene-d5	82	6.577	6.575	(0.842)	9774	0.63930	13	
$	10 2-Fluorobiphenyl	172	9.966	9.964	(0.887)	18100	0.57972	12	
$	12 Terphenyl-d14	244	17.347	17.346	(0.897)	17198	0.68330	14	
	13 Naphthalene	128	7.842	7.839	(1.003)	27920	0.65697	13	
	15 2-Methylnaphthalene	141	9.171	9.169	(0.817)	14793	0.69056	14	
	17 Acenaphthylene	152	10.917	10.918	(0.972)	25065	0.74997	15	

6/3/10 MT

Data File: /chem/5972hp66.i/DS100526A66.b/0051920-MSD1JA66.d
Report Date: 03-Jun-2010 16:27

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/Kg)
18 Acenaphthene	154	11.295	11.283	(1.006)	14345	0.73258	15
21 Fluorene	166	12.285	12.286	(0.870)	17536	0.77561	16
25 Phenanthrene	178	14.153	14.152	(1.003)	26483	0.87914	18
26 Anthracene	178	14.231	14.230	(1.008)	23668	0.87350	18
27 Fluoranthene	202	16.499	16.498	(0.853)	30272	0.65905	13
28 Pyrene	202	16.930	16.929	(0.875)	32747	0.65465	13
29 Benzo(a)anthracene	228	19.309	19.310	(0.998)	36615	0.97236	20
30 Chrysene	228	19.388	19.388	(1.002)	37510	0.91967	18
31 Benzo(b)fluoranthene	252	21.319	21.319	(0.970)	40969	0.95657	19
32 Benzo(k)fluoranthene	252	21.351	21.352	(0.972)	38207	0.82897	17
33 Benzo(a)pyrene	252	21.863	21.864	(0.995)	31235	0.80928	16
34 Indeno(1,2,3-cd)pyrene	276	24.029	24.030	(1.094)	25535	0.74993	15
35 Dibenzo(a,h)anthracene	278	24.094	24.084	(1.097)	24060	0.71432	14
36 Benzo(g,h,i)perylene	276	24.617	24.607	(1.120)	24274	0.64319	13

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

CompuChem

A Division Of

Liberty Analytical Corp.

6/14/2010

REBEKHA SHAW

CH2M HILL, INC.

P.O. BOX 241329

DENVER, CO 80224

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM
WorkOrder: 1005132

Attn. REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES ____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem
A Division Of
Liberty Analytical Corp.

SDG NARRATIVE
SDG # 1005132

The 20 soil samples were received intact between 0.7C and 4.3C, with proper documentations, in sealed shipping containers, on May 14th and 21st, 2010. The samples were scheduled for the requested analyses of the Wet Chemistry fraction. The samples were analyzed, in accordance with current EPA methods, for the analytes requested as per the COC, with the exceptions and/or additions requested by the client.

SAMPLE IDs:
The cover page contained in this package lists the client ID's and the associated CompuChem numbers which are part of this SDG.

INSTRUMENTAL QUALITY CONTROL:
All calibration verification solutions (ICV & CCV), blanks (ICB, & CCB), associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:
The sample preparation procedure verifications (LCS & Blank) were found to be within acceptable ranges. All field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:
SB85-1.5-2.5 *(1005132-01)* was requested to use as the original to prepare the matrix spike and matrix spike duplicate.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Preeti Khare
Data Reviewer I
June 14th, 2010

Organic Undecanted Dry Weight Worksheet

0051921

Procedure: 143/190

T. WILLIAMS — Employee
1289 — ID No

Temp in: 104°
Temp out: 100°C

Date Assigned: 5-20-10
Date/Time in: 5-20-10 @ 1605
Date/Time out: 5-21-10 1625

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1005132-01	SB85-1.5-2.5	Sample	1.32	6.35	5.49
1005132-02	SB78-3.5-4.5	Sample	1.31	7.75	6.83
1005132-03	SS77-0-1	Sample	1.32	7.26	5.89
1005132-04	SB77-3.5-4.5	Sample	1.34	7.85	7.20
1005132-05	SS79-0-1	Sample	1.31	6.38	6.18
1005132-06	SB79-11-12	Sample	1.34	6.63	5.72
1005132-07	SS83-0-1	Sample	1.32	7.20	6.84
1005132-08	SB83-6.5-7.5	Sample	1.33	7.15	6.28
1005132-09	SS62-0-1	Sample	1.33	6.25	2.85
1005132-10	SS74-0-1	Sample	1.34	7.44	7.28
1005132-11	SS86-0-1	Sample	1.34	7.03	6.30
1005132-12	SB86-3-4	Sample	1.33	7.01	6.09
1005132-13	SS84-0-1	Sample	1.31	7.40	7.10
1005132-14	SB84-6-7	Sample	1.34	7.41	6.30
1005133-01	SS73-0-1	Sample	1.34	6.16	5.96
1005134-01	SS02-0-1	Sample	1.32	7.54	6.55
1005134-02	SS02D-0-1	Sample	1.32	7.03	6.33
1005134-03	SB02-5-6	Sample	1.34	6.83	5.72
1005134-04	SB02D-5-6	Sample	1.35	6.79	5.60
1005134-05	SB05-7-8	Sample	1.35	6.82	5.30

Entered into Element by: MSH — 5-24-10 (Date)

2

Organic Undecanted Dry Weight Worksheet

0052406

Procedure: 143/190

T. WILLIAMS — Employee
1289 — ID No

Temp in: 105°
Temp out: 104°

Date Assigned: 5-24-10
Date/Time in: 5-24-10 @ 1636
Date/Time out: 5-24-10 @ 1095 (85)
TMW 5-25-10

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1005132-15	SS81-0-1	Sample	1.33	6.48	6.34
1005132-16	SB81-5-6	Sample	1.32	6.55	6.18
1005132-17	SS71-0-1	Sample	1.34	6.32	5.85
1005132-18	SS71D-0-1	Sample	1.33	6.46	6.02
1005132-19	SB71-4-5	Sample	1.33	7.18	6.00
1005132-20	SB71D-4-5	Sample	1.32	7.25	6.04

Entered into Element by: _____ 5-26-10
Date

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB85-1.5-2.5	1005132-01	Soil	05/13/2010 07:45	05/14/2010 09:20
SB78-3.5-4.5	1005132-02	Soil	05/13/2010 10:40	05/14/2010 09:20
SS77-0-1	1005132-03	Soil	05/13/2010 12:05	05/14/2010 16:00
SB77-3.5-4.5	1005132-04	Soil	05/13/2010 12:10	05/14/2010 16:00
SS79-0-1	1005132-05	Soil	05/13/2010 15:10	05/14/2010 16:00
SB79-11-12	1005132-06	Soil	05/13/2010 15:30	05/14/2010 16:00
SS83-0-1	1005132-07	Soil	05/13/2010 15:55	05/14/2010 16:00
SB83-6.5-7.5	1005132-08	Soil	05/13/2010 16:05	05/14/2010 16:00
SS62-0-1	1005132-09	Soil	05/13/2010 16:40	05/14/2010 16:00
SS74-0-1	1005132-10	Soil	05/14/2010 10:15	05/14/2010 16:00
SS86-0-1	1005132-11	Soil	05/14/2010 11:05	05/14/2010 16:00
SB86-3-4	1005132-12	Soil	05/14/2010 11:15	05/14/2010 16:00
SS84-0-1	1005132-13	Soil	05/14/2010 08:55	05/14/2010 16:00
SB84-6-7	1005132-14	Soil	05/14/2010 09:05	05/14/2010 16:00
SS81-0-1	1005132-15	Soil	05/18/2010 16:00	05/21/2010 16:00
SB81-5-6	1005132-16	Soil	05/18/2010 16:20	05/21/2010 16:00
SS71-0-1	1005132-17	Soil	05/19/2010 07:35	05/21/2010 16:00
SS71D-0-1	1005132-18	Soil	05/19/2010 07:40	05/21/2010 16:00
SB71-4-5	1005132-19	Soil	05/19/2010 07:55	05/21/2010 16:00
SB71D-4-5	1005132-20	Soil	05/19/2010 08:00	05/21/2010 16:00

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB85-1.5-2.5

1005132-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	**6.10**	0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**4.40**	2.41	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**2.46**	0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB78-3.5-4.5
1005132-02 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**21.6**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**0.989**	J	2.33	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**20.8**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS77-0-1

1005132-03 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**4.70**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.60	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**4.70**		0.500	mg/kg	1	[CALCI	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB77-3.5-4.5

1005132-04 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**5.70**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.22	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**5.70**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS79-0-1

1005132-05 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.20**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.08	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**2.20**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB79-11-12

1005132-06 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**11.2**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.71**	J	2.42	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**9.78**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS83-0-1

1005132-07 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**3.40**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.85**	J	2.13	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**1.66**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB83-6.5-7.5
1005132-08 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**8.30**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.52**	J	2.35	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**7.01**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS62-0-1

1005132-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	**8.30**	0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**132**	6.47	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	ND	0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS74-0-1

1005132-10 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.90**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.05	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**2.90**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS86-0-1
1005132-11 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**12.6**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.29	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**12.6**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB86-3-4

1005132-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	**12.9**	0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**2.45**	2.39	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**10.8**	0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS84-0-1

1005132-13 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**4.00**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.10	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**4.00**		0.500	mg/kg	1	[CALCI	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB84-6-7

1005132-14 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**10.4**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.45	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**10.4**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS81-0-1

1005132-15 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**0.94**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.06	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**0.940**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB81-5-6

1005132-16 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**2.50**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.15	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**2.50**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS71-0-1
1005132-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM								
Metals								
Chromium	**11.7**	0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS								
Hexavalent Chromium	**3.25**	2.21	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**8.76**	0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SS71D-0-1
1005132-18 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**11.4**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.07**	J	2.19	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**10.4**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB71-4-5

1005132-19 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**13.0**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	**1.22**	J	2.51	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**12.0**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

SB71D-4-5

1005132-20 (Soil)

Analyte	Result		Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
COMPUCHEM									
Metals									
Chromium	**17.4**		0.50	mg/kg	1	0060154	06/11/2010 12:00	06/11/2010 12:23	EPA 6010B
WET CHEMISTRY PARAMETERS									
Hexavalent Chromium	ND	U	2.51	mg/kg dry	1	0052522	05/25/2010 09:15	06/07/2010 12:04	EPA 7196A
Trivalent Chromium	**17.4**		0.500	mg/kg	1	[CALC]	06/11/2010 12:00	06/11/2010 12:23	Calc

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Preeti Khare For Cathy Dover, Project Manager

CompuChem
A Division Of
Liberty Analytical Corp.

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

WET CHEMISTRY PARAMETERS - Quality Control

COMPUCHEM

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0052522 - Default Prep GenChem										
Blank (0052522-BLK1)				Prepared: 05/25/2010 09:15 Analyzed: 06/07/2010 12:04						
Hexavalent Chromium	ND	2.00	mg/kg wet							
LCS (0052522-BS1)				Prepared: 05/25/2010 09:15 Analyzed: 06/07/2010 12:04						
Hexavalent Chromium	221	10.0	mg/kg wet	240.0		92.1	25-175			
Matrix Spike (0052522-MS1)		**Source: 1005132-01**		Prepared: 05/25/2010 09:15 Analyzed: 06/07/2010 12:04						
Hexavalent Chromium	37.1	2.41	mg/kg dry	48.25	4.40	67.9	75-125			
Matrix Spike Dup (0052522-MSD1)		**Source: 1005132-01**		Prepared: 05/25/2010 09:15 Analyzed: 06/07/2010 12:04						
Hexavalent Chromium	38.9	2.41	mg/kg dry	48.25	4.40	71.5	75-125	4.65	20	

CH2M HILL, INC.	Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM	
5700 CLEVELAND STREET, SUITE 101	Project Number: CTO-094 MCB CAMP LEJEUNE/395307.SA.DI	**Reported:**
VIRGINIA BEACH VA, 23462	Project Manager: REBEKHA SHAW	06/14/2010 12:44

Notes and Definitions

U	The compound was analyzed for but not detected (CLP U-flag).
J	Compound detected below the Reporting Limit; therefore, result is an estimated concentration (CLP J-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Default Report (not modified)
			VERSION 6.01:4045
	HEXAVALENT CHROMIU (SOIL)		Result calculations based on MDL
	HEXAVALENT CHROMIU (SOIL)		Special Units: (mg/kg)
	Total Cr by Metals	(Soil)	Result calculations based on MDL
	Total Cr by Metals	(Soil)	Special Units: (mg/kg)
0052522-MS1	HEXAVALENT CHROMIU	Hexavalent Chromium	Exceeds lower control limit
0052522-MSD1	HEXAVALENT CHROMIU	Hexavalent Chromium	Exceeds lower control limit

CompuChem
a Division of Liberty Analytical Corp

Hexavalent Chromium-METHOD 3060A/7196A

Initial Calibration Log

Analyst: MC

Analysis Date: 6-7-10

Work Order(s): 1005132

Calibration Data		
Absorbance Reading	Theoretical Concentration (mg/L)	Calculated Concentration (mg/L)
0.000	0	0.00267
0.030	0.05	0.02155
0.060	0.1	0.04042
0.255	0.4	0.16314
0.655	1	0.41486
1.250	2	0.78929

Regression Output	
Constant	0.002666486
Correlation Coeff.	0.999706951
No. of Observations	5
Degrees of Freedom	4
X Coefficient(s)	0.62929608

Analytical Sequence Log				
Compuchem Sample ID	Final Absorbance ample - backgour	Calculated Concentration (mg/L)	Calculated Concentration (mg/kg)	Comments
ICV	0.649	1.0271	41.0830	
PB	0.000	-0.0042	-0.1695	
LCS	1.999	3.1723	126.8931	over/ see dilution
513201	0.060	0.0911	3.6443	
MS	0.487	0.7696	30.7857	
MSD	0.510	0.8062	32.2477	
513202	0.016	0.0212	0.8475	
513203	0.014	0.0180	0.7204	
513204	0.000	-0.0042	-0.1695	
513205	0.000	-0.0042	-0.1695	
513206	0.025	0.0355	1.4196	
CCV	0.258	0.4057	16.2298	
CCB	0.000	-0.0042	-0.1695	
513207	0.030	0.0434	1.7374	
513208	0.023	0.0323	1.2925	
513209	0.643	1.0175	40.7016	
513210	0.005	0.0037	0.1483	
513211	-0.006	-0.0138	-0.5509	
513212	0.035	0.0514	2.0552	
513213	0.013	0.0164	0.6568	
513214	0.000	-0.0042	-0.1695	
513215	0.000	-0.0042	-0.1695	
513216	0.000	-0.0042	-0.1695	
CCV	0.255	0.4010	16.0391	
CCB	0.000	-0.0042	-0.1695	
513217	0.049	0.0736	2.9451	
513218	0.018	0.0244	0.9746	
513219	0.018	0.0244	0.9746	
513220	0.013	0.0164	0.6568	
LCS 2X	1.660	2.6336	105.3452	
LCS 5X	0.698	1.1049	44.1975	220.9875 mg/kg (LCS 5x dilution) TV = 240 mg/kg
CCV	0.253	0.3978	15.9120	
CCB	0.000	-0.0042	-0.1695	

ICV = 1.0 mg/L / 40 mg/kg

CCV = 0.400 mg/L / 16.0 mg/kg

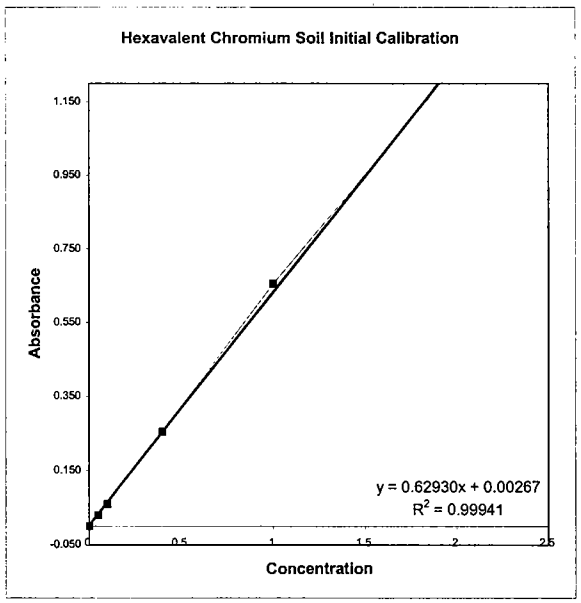
Reviewed by: [signature]

Date: 6-14-10

CompuChem
A Division Of
Liberty Analytical Corp.

Hexavalent Chromium-METHOD 3060A/7196A

Initial Calibration Log



Reviewed by: _____

Date: 6-14-10

Reagents/Standards Preparation Log for Hexavalent Chromium

CompuChem a division of Liberty Analytical Corp.1 UUUU

NAME	PREPARATION INSTRUCTIONS	PREPARED BY	DATE
Cr (VI) Digestion Solution NaOH Ref# 1u(6)1-13-28 Na_2CO_3 Ref# 1u(6)1-13-24	Place in a 1L volumetric flask: 20 g of NaOH 30 g of Na_2CO_3 Dilute to the volume with reagent water. Place solution in a Teflon bottle. Prepare fresh monthly or as needed	JM	06 02 10
Cr (VI) Stock Standard A Solution (**1000 mg/L**) Ref# 1u(6)1-17-25	N/A; Prepared by NSI - Hexavalent Chromium stock standard at 1000 mg/L **USE FOR ICV**	NSI	**EXP: 01/11**
Cr (VI) Intermediate Standard Solution (**10 mg/L**) Ref# 1u(6)1-17-25	Place in a 100 mL volumetric flask: 1mL of Cr (VI) Stock Standard Solution Dilute to volume reagent water. Prepare fresh daily	JM	06 02 10
Cr (VI) Stock Standard B Solution (**1000 mg/L**) Ref# 1u(6)1-18-2	N/A; Prepared by Alpha Aesar - Hexavalent Chromium stock standard at 1000 mg/L **USE FOR ICAL AND MS/MSD**	JM	06 02 10
Cr (VI) Intermediate Standard Solution (**10 mg/L**) Ref# 1u(6)1-18-2	Place in a 100 mL volumetric flask: 1mL of Cr (VI) Stock Standard B Solution Dilute to volume reagent water. Prepare fresh daily **USE FOR ICAL**	JM	06 02 10
2.0 ppm Standard	Place in a 100 mL volumetric flask: .2 ml of Cr (VI) Stock Standard Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 07 10
1.0 ppm Standard	Place in a 100 mL volumetric flask: .1 mL of Cr (VI) stock Standard Solution 50 ml of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 07 10
0.4 ppm Standard **(use for CCV)**	Place in a 100 mL volumetric flask: 4 mL of Cr (VI) **Intermediate** Standard Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 07 10

Reagents/Standards Preparation Log for Hexavalent Chromium

CompuChem a division of Liberty Analytical Corp.1 UUUU

NAME	PREPARATION INSTRUCTIONS	PREPARED BY	DATE
0.1 ppm Standard **USE FOR LOQ**	Place in a 100 mL volumetric flask: 1 mL of Cr (VI) **Intermediate** Standard Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 07 10
0.05 ppm Standard **USE FOR MDL and LOD**	Place in a 100 mL volumetric flask: .5 mL of Cr (VI) **Intermediate** Standard Stock Solution 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 07 10
ICV 1.0 ppm	Place in a 100 mL volumetric flask: .1 mL of Cr (VI) Cr (VI) Stock Standard B 50 mL of Cr (VI) Digestion solution Dilute to volume with reagent water. Prepare fresh daily	JM	06 07 10
ICB/CCB	50 mL of Cr (VI) Digestion solution in 50 ml of DI water	JM	06 07 10
LCS TV=240 mg/kg Hexavilent chromium in soil Ref# 1u(6)1-19-3	Place in a 250 mL beaker: Weigh 2.5g of Hexavalent Chromium reference standard 50 mL of Cr (VI) Digestion solution	JM	06 02 10
Matrix Spiking Solution Ref#:1u(6)1-17-25	Spike .1 ml of the 1000 ppm stock standard in 2.5 g of the original	JM	06 02 10
Phosphate Buffer Solution K2hpo4Ref# 1U(6)1-14-16 Kh2po4Ref#1u(6)1-12-21	Place in 1 L volumetric flask: 87.09g of K_2HPO_4 and 68.04 g of KH_2PO_4 Dilute to volume with reagent water. Prepare fresh every six months	JM	06 02 10
Diphenylcarbazide Solution Ref#:1U(6)1-15-22	Place in a 100 mL volumetric flask: 0.5 g of 1,5-diphenylcarbazide Dilute to volume with acetone. Prepare fresh monthly of sooner, if solution becomes colored.	JM	06 07 10

Reviewed by: _____ Date: 6-7-10 The presence of the Chemist's/Analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

11-18-09 jm

Hexavalent Chromium Analysis Log

Modified Method SW-846: 7196A

Analyst [signature] Date: 6/7/2010 ASL

SDG ID 1005132 Correlation Coefficient See Run log

Reviewed By: _____ Slope: _____

Date: _____ Intercept: _____

#	Sample ID	Acidic pH	Uncorrected Absorbance	Background Abosrbance	Corrected Absorbance	Dilution	Concentration	Color	Read Time
	0.0	1.6≤2.2	.000	.000	.000	1	NA	NA	17:00
	0.05		.030	.000	~~.030~~ .030				
	0.1		.060	.000	~~.060~~ .060				
	0.4		.255	.000	~~.255~~ .255				
	1.0		.655	.000	.655				
	2.0		1.250	.000	1.250				
	ICV		.649	.000	.649				
1	BLK		.000	.000	.000				
2	BS1		1.9999	.018	See dilution				
3	1005132-01		.060	.000	.060				
4	-MS1		.507	.020	.487				
5	-MSD1		.540	.030	.510				
6	-02		.016	.000	.016				
7	-03		.036	.022	.014				
8	-04		.036	.036	.000				
9	-05		.030	.030	.000				
10	-06		.030	.005	.025				
	CCV		.258	~~.258~~	.258				
	CCB		.000	.000	.000				
1	-07		.080	.050	.030				
2	-08		.030	.007	.023				
3	-09		1.048	.405	.643				
4	-10		.025	.020	.005				
5	-11		.054	.060	-0.006				
6	-12		.050	.015	0.035				
7	-13		.035	.022	0.013				
8	-14		.029	.029	.000				
9	-15		.024	.024	.000				
10	-16		.043	.043	.000				
	CCV		.255	.000	.255				
	CCB		.000	.000	.000				

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Hexavalent Chromium Analysis Log

Modified Method SW-846: 7196A

Analyst [signature]

SDG ID 100132

Reviewed By: _____

Date: _____

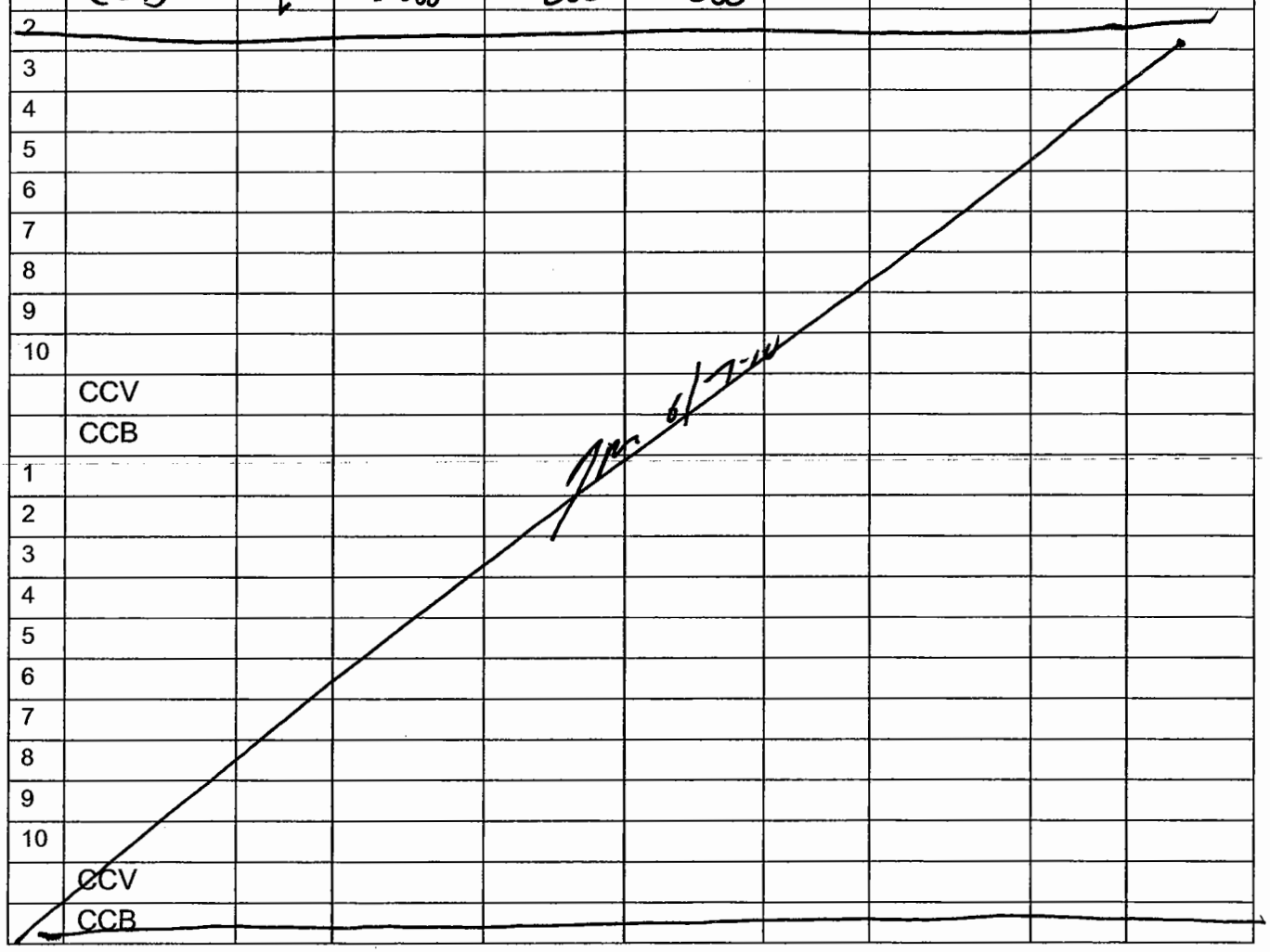
Date: 6-7-10

Correlation Coefficient See ASL

Slope: _____

Intercept: _____

#	Sample ID	Acidic pH	Uncorrected Absorbance	Background Abosrbance	Corrected Absorbance	Dilution	Concentration	Color	Read Time
	-17	1.622	~~-033~~	.073	0.049	1.0			
	-18		.058	.040	0.018				
	-19		.032	.014	0.018				
	-20		.035	.022	0.013				
	BS01-		1.670	.010	1.660	2X			
	BS1		.708	.010	0.698	5X			
	CCV		.253	.00	.253				
1	CCB		.000	.000	.000				
2									
3									
4									
5									
6									
7									
8									
9									
10									
	CCV								
	CCB								
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
	CCV								
	CCB								



The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

5/5/06:jad

CompuChem, a division of Liberty Analytical Corp.

Worksheet 1 K (8) **Cr(VI) DIGESTION PREP** Page __1___ of __1___

SDG # **1005132** **SW-846 Method 3060A**

Analyst No.: 2477 Date: ~~6-2-10~~ 6-7-10

CompuChem No.	Sample Type	Sample weight (gms)	Hot Plate Temp °C	Sample filtered? (Y or N)	Final volume (mL)	Comments
0052522-BLK1	Blank	2.5	95	Y	100	09:00
0052522-BS1	LCS	2.50				
1005132-01	Sample	2.50				
0052522-MS1	MS	2.50				
0052522-MSD1	MSD	2.50				
1005132-02	Sample	2.50				10:00
1005132-03	Sample	2.52				
1005132-04	Sample	2.50				
1005132-05	Sample	2.50				
1005132-06	Sample	2.51				
1005132-07	Sample	2.54				
1005132-08	Sample	2.52				11:00
1005132-09	Sample	2.51				
1005132-10	Sample	2.52				
1005132-11	Sample	2.51				
1005132-12	Sample	2.51				
1005132-13	Sample	2.50				
1005132-14	Sample	2.51				12:00
1005132-15	Sample	2.50				
1005132-16	Sample	2.53				
1005132-17	Sample	2.50				
1005132-18	Sample	2.52				
1005132-19	Sample	2.50				
1005132-20	Sample	2.51				13:00

Digestion Solution - 06 07 10 JR	
Phosphate Buffer Solution - 06 07 10 JR	

Digestion Time Start - 09:00

Matrix Spiking Solution (100mg/L CrVI) ~~052206jm~~ 060710 JR 10(6)-10-2 Digestion Time Stop - 13:00

NaOH ref #	10(6)-13-28
K_2HPO_4 ref #	10(6)-14-6
KH_2PO_4 ref #	10(6)-12-21

Reviewed By: _____ Date: 6-14-10

The presence of the Chemist's/analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Generated on: 6/2/2010 9:28 AM

3/24/10:jad

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB85-1.5-2.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-01

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6090			P
7440-36-0	Antimony	1.5		N	P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	6.0	B		P
7440-41-7	Beryllium	0.12	B		P
7440-43-9	Cadmium	0.10	B		P
7440-70-2	Calcium	72.9	B		P
7440-47-3	Chromium	6.1			P
7440-48-4	Cobalt	0.38	B		P
7440-50-8	Copper	0.92			P
7439-89-6	Iron	880			P
7439-92-1	Lead	3.2			P
7439-95-4	Magnesium	142	B	E	P
7439-96-5	Manganese	7.6			P
7439-97-6	Mercury	0.049		N	CV
7440-02-0	Nickel	0.93			P
7440-09-7	Potassium	157	B		P
7782-49-2	Selenium	0.38	B		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	53.3	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	6.7			P
7440-66-6	Zinc	2.0	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB78-3.5-4.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-02

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 85.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15300			P
7440-36-0	Antimony	0.88	B	N	P
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	16.7	B		P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.47	B		P
7440-70-2	Calcium	145	B		P
7440-47-3	Chromium	21.6			P
7440-48-4	Cobalt	0.58	U		P
7440-50-8	Copper	1.3			P
7439-89-6	Iron	9760			P
7439-92-1	Lead	6.7			P
7439-95-4	Magnesium	599		E	P
7439-96-5	Manganese	10.5			P
7439-97-6	Mercury	0.055		N	CV
7440-02-0	Nickel	2.1			P
7440-09-7	Potassium	798			P
7782-49-2	Selenium	0.46	B		P
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	61.1	B		P
7440-28-0	Thallium	0.43	B		P
7440-62-2	Vanadium	27.3			P
7440-66-6	Zinc	6.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS77-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-03

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 76.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4290			P
7440-36-0	Antimony	1.9		N	P
7440-38-2	Arsenic	1.3			P
7440-39-3	Barium	11.0	B		P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.18	B		P
7440-70-2	Calcium	650	B		P
7440-47-3	Chromium	4.7			P
7440-48-4	Cobalt	0.65	U		P
7440-50-8	Copper	2.0			P
7439-89-6	Iron	1940			P
7439-92-1	Lead	6.1			P
7439-95-4	Magnesium	153	B	E	P
7439-96-5	Manganese	16.2			P
7439-97-6	Mercury	0.071		N	CV
7440-02-0	Nickel	1.5			P
7440-09-7	Potassium	650	U		P
7782-49-2	Selenium	0.41	B		P
7440-22-4	Silver	0.65	U		P
7440-23-5	Sodium	54.5	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	6.3			P
7440-66-6	Zinc	6.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB77-3.5-4.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-04

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 90.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4540			P
7440-36-0	Antimony	1.2		N	P
7440-38-2	Arsenic	0.59	B		P
7440-39-3	Barium	9.5	B		P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.16	B		P
7440-70-2	Calcium	484	B		P
7440-47-3	Chromium	5.7			P
7440-48-4	Cobalt	0.31	B		P
7440-50-8	Copper	1.4			P
7439-89-6	Iron	2180			P
7439-92-1	Lead	4.8			P
7439-95-4	Magnesium	168	B	E	P
7439-96-5	Manganese	9.1			P
7439-97-6	Mercury	0.093		N	CV
7440-02-0	Nickel	1.4			P
7440-09-7	Potassium	19.5	B		P
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.55	U		P
7440-23-5	Sodium	56.8	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	7.5			P
7440-66-6	Zinc	2.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS79-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-05

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 96.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1600			P
7440-36-0	Antimony	1.2		N	P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	5.3	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.07	B		P
7440-70-2	Calcium	170	B		P
7440-47-3	Chromium	2.2			P
7440-48-4	Cobalt	0.51	U		P
7440-50-8	Copper	1.4			P
7439-89-6	Iron	500			P
7439-92-1	Lead	3.4			P
7439-95-4	Magnesium	46.6	B	E	P
7439-96-5	Manganese	8.3			P
7439-97-6	Mercury	0.058		N	CV
7440-02-0	Nickel	0.68			P
7440-09-7	Potassium	505	U		P
7782-49-2	Selenium	0.51	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	47.9	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	2.5			P
7440-66-6	Zinc	3.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB79-11-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-06

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 82.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8390			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	2.1			P
7440-39-3	Barium	11.8	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.19	B		P
7440-70-2	Calcium	139	B		P
7440-47-3	Chromium	11.2			P
7440-48-4	Cobalt	0.35	B		P
7440-50-8	Copper	1.4			P
7439-89-6	Iron	2720			P
7439-92-1	Lead	4.2			P
7439-95-4	Magnesium	302	B	E	P
7439-96-5	Manganese	7.5			P
7439-97-6	Mercury	0.10		N	CV
7440-02-0	Nickel	1.5			P
7440-09-7	Potassium	591			P
7782-49-2	Selenium	0.59	U		P
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	59.8	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	20.6			P
7440-66-6	Zinc	4.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS83-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-07

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 93.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3060			P
7440-36-0	Antimony	1.5		N	P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	6.9	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.07	B		P
7440-70-2	Calcium	1040			P
7440-47-3	Chromium	3.4			P
7440-48-4	Cobalt	0.52	U		P
7440-50-8	Copper	0.83			P
7439-89-6	Iron	922			P
7439-92-1	Lead	4.6			P
7439-95-4	Magnesium	84.3	B	E	P
7439-96-5	Manganese	5.8			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	0.93			P
7440-09-7	Potassium	517	U		P
7782-49-2	Selenium	0.48	B		P
7440-22-4	Silver	0.52	U		P
7440-23-5	Sodium	50.4	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	4.2			P
7440-66-6	Zinc	3.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB83-6.5-7.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-08

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 85.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8680			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	8.0	B		P
7440-41-7	Beryllium	0.16	B		P
7440-43-9	Cadmium	0.18	B		P
7440-70-2	Calcium	125	B		P
7440-47-3	Chromium	8.3			P
7440-48-4	Cobalt	0.47	B		P
7440-50-8	Copper	0.59			P
7439-89-6	Iron	1480			P
7439-92-1	Lead	3.4			P
7439-95-4	Magnesium	219	B	E	P
7439-96-5	Manganese	5.5			P
7439-97-6	Mercury	0.089		N	CV
7440-02-0	Nickel	1.7			P
7440-09-7	Potassium	248	B		P
7782-49-2	Selenium	0.41	B		P
7440-22-4	Silver	0.05	B		P
7440-23-5	Sodium	56.5	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	7.8			P
7440-66-6	Zinc	2.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS62-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-09

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 30.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9480			P
7440-36-0	Antimony	3.7		N	P
7440-38-2	Arsenic	2.4	B		P
7440-39-3	Barium	30.3	B		P
7440-41-7	Beryllium	0.49	B		P
7440-43-9	Cadmium	0.22	B		P
7440-70-2	Calcium	477	B		P
7440-47-3	Chromium	8.3			P
7440-48-4	Cobalt	1.6	U		P
7440-50-8	Copper	15.5			P
7439-89-6	Iron	533			P
7439-92-1	Lead	22.3			P
7439-95-4	Magnesium	220	B	E	P
7439-96-5	Manganese	6.1			P
7439-97-6	Mercury	0.46		N	CV
7440-02-0	Nickel	2.0			P
7440-09-7	Potassium	116	B		P
7782-49-2	Selenium	4.1			P
7440-22-4	Silver	0.24	B		P
7440-23-5	Sodium	231	B		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	11.2			P
7440-66-6	Zinc	5.8	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS74-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-10

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 97.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2690			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	1.0	U		P
7440-39-3	Barium	8.4	B		P
7440-41-7	Beryllium	0.08	B		P
7440-43-9	Cadmium	0.09	B		P
7440-70-2	Calcium	117	B		P
7440-47-3	Chromium	2.9			P
7440-48-4	Cobalt	0.27	B		P
7440-50-8	Copper	1.7			P
7439-89-6	Iron	1010			P
7439-92-1	Lead	3.6			P
7439-95-4	Magnesium	85.2	B	E	P
7439-96-5	Manganese	8.0			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	0.90			P
7440-09-7	Potassium	513	U		P
7782-49-2	Selenium	0.26	B		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	56.7	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	3.4			P
7440-66-6	Zinc	1.9	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS86-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-11

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11300			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	1.4			P
7440-39-3	Barium	12.5	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.45	B		P
7440-70-2	Calcium	5630			P
7440-47-3	Chromium	12.6			P
7440-48-4	Cobalt	0.56	U		P
7440-50-8	Copper	0.77			P
7439-89-6	Iron	8640			P
7439-92-1	Lead	8.3			P
7439-95-4	Magnesium	445	B	E	P
7439-96-5	Manganese	9.4			P
7439-97-6	Mercury	0.028	B	N	CV
7440-02-0	Nickel	1.7			P
7440-09-7	Potassium	185	B		P
7782-49-2	Selenium	0.99			P
7440-22-4	Silver	0.56	U		P
7440-23-5	Sodium	55.9	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	22.5			P
7440-66-6	Zinc	7.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB86-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-12

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9230			P
7440-36-0	Antimony	0.79	B	N	P
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	9.6	B		P
7440-41-7	Beryllium	0.21	B		P
7440-43-9	Cadmium	0.61			P
7440-70-2	Calcium	684			P
7440-47-3	Chromium	12.9			P
7440-48-4	Cobalt	0.58	U		P
7440-50-8	Copper	5.0			P
7439-89-6	Iron	15700			P
7439-92-1	Lead	5.6			P
7439-95-4	Magnesium	363	B	E	P
7439-96-5	Manganese	7.8			P
7439-97-6	Mercury	0.013	B	N	CV
7440-02-0	Nickel	1.6			P
7440-09-7	Potassium	326	B		P
7782-49-2	Selenium	0.44	B		P
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	61.4	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	3.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS84-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-13

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3530			P
7440-36-0	Antimony	1.2		N	P
7440-38-2	Arsenic	0.66	B		P
7440-39-3	Barium	9.2	B		P
7440-41-7	Beryllium	0.08	B		P
7440-43-9	Cadmium	0.13	B		P
7440-70-2	Calcium	1170			P
7440-47-3	Chromium	4.0			P
7440-48-4	Cobalt	0.51	U		P
7440-50-8	Copper	0.65			P
7439-89-6	Iron	1900			P
7439-92-1	Lead	7.4			P
7439-95-4	Magnesium	111	B	E	P
7439-96-5	Manganese	6.3			P
7439-97-6	Mercury	0.013	B	N	CV
7440-02-0	Nickel	1.0			P
7440-09-7	Potassium	506	U		P
7782-49-2	Selenium	0.36	B		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	61.7	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	5.6			P
7440-66-6	Zinc	2.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB84-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-14

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8000			P
7440-36-0	Antimony	1.7		N	P
7440-38-2	Arsenic	1.1	B		P
7440-39-3	Barium	8.3	B		P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.15	B		P
7440-70-2	Calcium	674			P
7440-47-3	Chromium	10.4			P
7440-48-4	Cobalt	0.31	B		P
7440-50-8	Copper	1.1			P
7439-89-6	Iron	2320			P
7439-92-1	Lead	5.1			P
7439-95-4	Magnesium	201	B	E	P
7439-96-5	Manganese	7.0			P
7439-97-6	Mercury	0.013	B	N	CV
7440-02-0	Nickel	1.6			P
7440-09-7	Potassium	372	B		P
7782-49-2	Selenium	0.61	U		P
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	66.8	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	10.5			P
7440-66-6	Zinc	2.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS81-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-15

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 97.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	221			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	0.98	U		P
7440-39-3	Barium	1.9	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	0.49	U		P
7440-70-2	Calcium	79.0	B		P
7440-47-3	Chromium	0.94	B		P
7440-48-4	Cobalt	0.49	U		P
7440-50-8	Copper	0.17	B		P
7439-89-6	Iron	235			P
7439-92-1	Lead	2.9			P
7439-95-4	Magnesium	14.2	B	E	P
7439-96-5	Manganese	7.6			P
7439-97-6	Mercury	0.034	U	N	CV
7440-02-0	Nickel	0.18	B		P
7440-09-7	Potassium	489	U		P
7782-49-2	Selenium	0.49	U		P
7440-22-4	Silver	0.04	B		P
7440-23-5	Sodium	43.3	B		P
7440-28-0	Thallium	0.98	U		P
7440-62-2	Vanadium	0.95	B		P
7440-66-6	Zinc	0.84	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB81-5-6

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-16

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 92.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1400			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	2.5	B		P
7440-41-7	Beryllium	0.05	B		P
7440-43-9	Cadmium	0.07	B		P
7440-70-2	Calcium	80.8	B		P
7440-47-3	Chromium	2.5			P
7440-48-4	Cobalt	0.53	U		P
7440-50-8	Copper	0.28	B		P
7439-89-6	Iron	530			P
7439-92-1	Lead	2.0			P
7439-95-4	Magnesium	59.0	B	E	P
7439-96-5	Manganese	4.7			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	0.60			P
7440-09-7	Potassium	528	U		P
7782-49-2	Selenium	0.27	B		P
7440-22-4	Silver	0.06	B		P
7440-23-5	Sodium	45.4	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	1.4	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS71-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-17

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12300			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	0.67	B		P
7440-39-3	Barium	14.4	B		P
7440-41-7	Beryllium	0.10	B		P
7440-43-9	Cadmium	0.26	B		P
7440-70-2	Calcium	577			P
7440-47-3	Chromium	11.7			P
7440-48-4	Cobalt	0.45	B		P
7440-50-8	Copper	1.6			P
7439-89-6	Iron	4040			P
7439-92-1	Lead	8.8			P
7439-95-4	Magnesium	405	B	E	P
7439-96-5	Manganese	9.9			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	1.9			P
7440-09-7	Potassium	207	B		P
7782-49-2	Selenium	0.28	B		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	67.2	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	14.4			P
7440-66-6	Zinc	5.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS71D-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-18

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 91.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12100			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	0.78	B		P
7440-39-3	Barium	14.1	B		P
7440-41-7	Beryllium	0.08	B		P
7440-43-9	Cadmium	0.27	B		P
7440-70-2	Calcium	811			P
7440-47-3	Chromium	11.4			P
7440-48-4	Cobalt	0.39	B		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	4050			P
7439-92-1	Lead	8.4			P
7439-95-4	Magnesium	395	B	E	P
7439-96-5	Manganese	9.3			P
7439-97-6	Mercury	0.11		N	CV
7440-02-0	Nickel	2.1			P
7440-09-7	Potassium	191	B		P
7782-49-2	Selenium	0.45	B		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	78.0	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	14.7			P
7440-66-6	Zinc	4.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB71-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-19

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 79.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17000			P
7440-36-0	Antimony	1.6		N	P
7440-38-2	Arsenic	1.6			P
7440-39-3	Barium	37.1			P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.26	B		P
7440-70-2	Calcium	103	B		P
7440-47-3	Chromium	13.0			P
7440-48-4	Cobalt	0.80			P
7440-50-8	Copper	3.5			P
7439-89-6	Iron	2500			P
7439-92-1	Lead	9.2			P
7439-95-4	Magnesium	278	B	E	P
7439-96-5	Manganese	9.7			P
7439-97-6	Mercury	0.041	B	N	CV
7440-02-0	Nickel	8.9			P
7440-09-7	Potassium	523	B		P
7782-49-2	Selenium	0.60	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	74.9	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	13.7			P
7440-66-6	Zinc	8.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB71D-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005132

Matrix (soil/water): SOIL Lab Sample ID: 1005132-20

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 79.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22900			P
7440-36-0	Antimony	1.6		N	P
7440-38-2	Arsenic	1.1	B		P
7440-39-3	Barium	57.0			P
7440-41-7	Beryllium	0.26	B		P
7440-43-9	Cadmium	0.39	B		P
7440-70-2	Calcium	111	B		P
7440-47-3	Chromium	17.4			P
7440-48-4	Cobalt	1.4			P
7440-50-8	Copper	4.2			P
7439-89-6	Iron	3060			P
7439-92-1	Lead	14.1			P
7439-95-4	Magnesium	403	B	E	P
7439-96-5	Manganese	12.6			P
7439-97-6	Mercury	0.082		N	CV
7440-02-0	Nickel	14.1			P
7440-09-7	Potassium	738			P
7782-49-2	Selenium	0.30	B		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	81.0	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	15.4			P
7440-66-6	Zinc	11.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

24772

55

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

8oz 8oz

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrix
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Compuchem Lab #	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B)	Total Chromium (6010B)	Chromium VI (7196A)	3M PAH's (8270C)	TCL Pest (8081A)	Grainsize (ASTM D422) 8oz		Grain size	
1005129-17	BBG-SB85-0-1-10B	5-13-10	0740	SO	3							X		X	X	X	X		1005209-13	
1005132-01	BBG-SB85-1.5-2.5-10B	5-13-10	0745	SO	3							X		X	X	X	X			-14
	BBG-SB85-1.5-2.5-10B-MS*	5-13-10	0745	SO	2							X		X	X	X	X①	(N) X10		no grainsize on MS/MSD
	BBG-SB85-1.5-2.5-10B-SD*	5-13-10	0745	SO	2							X		X	X	X	X②			
1005129-18	BBG-SB89-0-1-10B	5-13-10	0825	SO	3							X		X	X	X	X		1005209-15	
-19	BBG-SB89-6.5-7.5-10B	5-13-10	0845	SO	3							X		X	X	X	X			-16
-20	BBG-SB78-0-1-10B	5-13-10	0930	SO	3							X		X	X	X	X			-17
1005132-02	BBG-SB78-3.5-4.5-10B	5-13-10	1040	SO	3							X		X	X	X	X			-18

Lab Use Only

Sample Unpacked By: Diane Byrd
Sample Order Entry By:
Samples Received in Good Condition? Y or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

BBG-SB85-1.5-2.5-10B (MS + SD) Did not receive grainsize jar. DB 5/14/10

Sample Custody

Relinquished by:	Date/Time: 5-13-10 1330	Received by: Diane Byrd	Date/Time: 5-14-10 0920
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 0.7 °C

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

SN0015

24776

56

CHAIN OF CUSTODY

Page ____ of ____

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers / RDM

Project Information

Project Name: GD-94
Sampling Location: MCB Camp Lejeune
Turnaround time
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Requested Analysis and Container Information

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Lab ID (Lab Use Only)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2oz	Total Chromium (6010B)	Chromium VI (7196A)	SIM PAH's (8270C) 8oz	TCL Pest (8081A)	Grain Size (ASTM D422) 8oz	Grain size	Comments
1005132-03	BBG-SS77-0-1-10B	5-13-10	1205	SO	3							X		X	X	X	X	100520 9-19	
-04	BBG-SB77-2.5-3.5-10B	5-13-10	1210	SO	3							X		X	X	X	X	container has BBG-SB77-3.5-4.5	
1005130-18	BBG-SS08-0-1-10B	5-13-10	1240	SO	3								X	X	X	X	X	1005210-02	
-19	BBG-SB08-6-7-10B	5-13-10	1300	SO	3								X	X	X	X	X		-03
1005132-05	BBG-SS79-0-1-10B	5-13-10	1510	SO	3							X	X	X	X	X	X		-04
-06	BBG-SB79-11-12-10B	5-13-10	1530	SO	3							X	X	X	X	X	X		-05

Lab Use Only

Sample Unpacked By: Jennifer Bowen
Sample Order Entry By: Jennifer Bowen
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Sample Custody

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diane Bynd	Date/Time: 5/14/10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice (Y) or N
Cooler Temp: 3.8 °C

(JD) 5/14/10 client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24775

57

CompuChem
a division of Liberty Analytical Corp.

CHAIN OF CUSTODY

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St. 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K Rogers / RDM

Project Information

Project Name: CTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N) If yes, which ID(s)?

Requested Analysis (including Method and Container Preservative)

Matrix
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

Container Order Number	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	TOTAL METALS (6010B) 2	TOTAL CHROMIUM (6010B)	CHROMIUM VI (7196A)	SIM PAH's (8270C) 8	TCL PEST (8081A) 8	GRAIN SIZE (ASTM D422) 8		Grain size					
1005132-07	BBG-SS83-0-1-10B	5-13-10	1555	SO	3							X		X	X	X	X		1005210-06					
-08	BBG-SB83-6.5-7.5-10B	5-13-10	1605	SO	3							X		X	X	X	X							-07
-09	BBG-SS62-0-1-10B	5-13-10	1640	SO	3							X		X	X	X	X							-08
1005130-20	BBG-SS05-0-1-10B	5-14-10	0800	SO	3							X	X	X	X	X	X							-09
1005134-05	BBG-SB05-7-8-10B	5-14-10	0810	SO	3								X	X	X	X	X							-10

Lab Use Only

Sample Unpacked By: Jennifer Davis
Sample Order Entry By:
Samples Received in Good Condition: (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Relinquished by:	Date/Time: 5-14-10 1600	Received by: Diana Byrd	Date/Time: 5/14/10 16:00
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? Y or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 3.6 °C

client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24779

58

CHAIN OF CUSTODY

Page 1 of 1

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information	Project Information
Company Name: CH2M HILL	Project Name: CTO-94
Address: 5700 Cleveland St, 101	Sampling Location: MCB Camp Lejeune
City: VA Beach State: VA Zip: 23462	Turnaround time
Project Contact: Rebekka Shaw	Batch QC or Project Specific? If Specific, which Sample ID?
Phone #: 757-671-6279	Are aqueous samples field filtered for metals? Y or (N)
Sampler's Name: K. Rogers / RDM	Are high concentrations expected? Y or (N) If yes, which ID(s)?

CompuChem Lab ID (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 2	Total Chromium (6010B)	TCL Pest (8081A) 8	SIM PAH's (8270C) 8	Grain Size (ASTM D422) 8	Chromium VI (7196A)		Grain Size			Matrix
1005132-10	BBG-SS74-0-1-10B	5-14-10	1015	SO	3							X		X	X	X	X		1005210-11			GW - Ground water
-11	BBG-SS86-0-1-10B	5-14-10	1105	SO	3							X		X	X	X	X			-12		WW - Waste water
-12	BBG-SS86-3-4-10B	5-14-10	1115	SO	3							X		X	X	X	X			-13		SW - Surface water
																	\					SO - Soil/Sediment
																						TB - Trip Blank
																						RI - Rinsate
																						WP - Wipe
																						O - Other

Lab Use Only

Sample Unpacked By: Jennifer Baker
Sample Order Entry By: [signature]
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

Comments

Relinquished by: [signature]	Date/Time: 5.14.10 1605	Received by: [signature]	Date/Time: 5/14-10 1605
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontact? (Y) or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 3.2 °C

Samples stored 60 days after date report mailed at no extra charge.

client delivered

White & Yellow copy to lab • Pink copy for customer

24777

59

CHAIN OF CUSTODY

Page ____ of ____

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: VA Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: KRogers / RDH

Project Information

Project Name: GTO-94
Sampling Location: MCB Camp Lejeune
Turnaround time:
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N). If yes, which ID(s)?

Requested Analysis and Container Information

Matrix: GW - Ground water; WW - Waste water; SW - Surface water; SO - Soil/Sediment; TB - Trip Blank; RI - Rinsate; WP - Wipe; O - Other

Sample Identification (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Total Metals (6010B) 20Z	Total Chromium (6010B)	SIM PAH's (8270C)	TCL Pest (8081A)	Grain Size (ASTM D422) 86	Chromium VI (7196A)		Grain Size	
1005132-01	BBG-SS73-0-1-10B	5-14-10	0825	SO	3							X		X	X	X	X		1005209-14	
—	BBG-SS73-0-1-10B-MS	5-14-10	0825	SO	3							X		X	X	X	X		—	
—	BBG-SS73-0-1-10B-SD	5-14-10	0825	SO	3							X		X	X	X	X		—	
1005132-13	BBG-SS84-0-1-10B	5-14-10	0855	SO	3							X		X	X	X	X		1005209-15	
-14	BBG-SB84-6-7-10B	5-14-10	0905	SO	3							X		X	X	X	X		√	-16
1005134-01	BBG-SS02-0-1-10B	5-14-10	0930	SO	3								X	X	X	X	X		√	-17
-02	BBG-SS02D-0-1-10B	5-14-10	0935	SO	3								X	X	X	*X	X		—	
-03	BBG-SB02-5-6-10B	5-14-10	0940	SO	3								X	X	X	X	X		1005209-18	
-04	BBG-SB02D-5-6-10B	5-14-10	0945	SO	3								X	X	X	*X	X		—	

Lab Use Only

Sample Unpacked By: JenniferDyer
Sample Order Entry By: Jenny Dyer
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (NA)
625 & Phenol samples checked for chlorine? Y or (NA)
608 samples checked for pH between 5.0-9.0? Y or (NA)

*did not recd Grainsize for BBG-SS02D-01-10B or BBG-SB02D-56-10B not needed on "dups" ED 5/14/10 or MS/MSD // DD - 5/14/10

Additional Comments

Relinquished by: K Rogers	Date/Time: 5-14-10 1600	Received by: Diane Bond	Date/Time: 5-14-10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to CT LABS
Custody Seal(s) intact? (Y) or N
On Ice? (Y) or N
Cooler Temp: 1.7 °C

SD 5/14/10 Client delivered

Samples stored 60 days after date report mailed at no extra charge.

White & Yellow copy to lab • Pink copy for customer

24785

CHAIN OF CUSTODY

CompuChem
a division of Liberty Analytical Corp.

501 Madison Ave.
Cary, NC 27513
Phone: 919-379-4100 Fax 919-379-4040

Page ____ of ____

Courier
Airbill No.
Sampling Complete? Y or N

Client/Reporting Information

Company Name: CH2M HILL
Address: 5700 Cleveland St, 101
City: Va Beach State: VA Zip: 23462
Project Contact: Rebekha Shaw
Phone #: 757-671-6279
Sampler's Name: K. Rogers

Project Information

Project Name: CTO 94
Sampling Location: MCB CAMP LEJEUNE
Turnaround time: PER CONTRACT
Batch QC or Project Specific? If Specific, which Sample ID?
Are aqueous samples field filtered for metals? Y or (N)
Are high concentrations expected? Y or (N)? If yes, which ID(s)?

Matrix
GW - Ground water
WW - Waste water
SW - Surface water
SO - Soil/Sediment
TB - Trip Blank
RI - Rinsate
WP - Wipe
O - Other

CompuChem Sample ID (Lab Use)	Field ID	Collection Date	Collection Time	Matrix	# of bottles	Number of Preserved Bottles: HCl	NaOH	HNO3	H2SO4	MEOH	Other	Metals 6010B (Share)	Tot Cr 6010B (1-202.)	Cr VI 7196A	SIM PAH 8270C (Share)	TCL PEST 8081A (1-808.)	Grain Size ASTM D422 (1-802.)		Grain Size	
1005132-15	BBG-SS81-0-1-10B	5.18	1600	SO	3							X		X	X	X	X		1005212-01	
-16	BBG-SS81-5-6-10B	5.18	1620	SO	3							X		X	X	X	X		-02	
1005133-11	BBG-SS67-0-1-10B	5.18	1700	SO	3							X		X	X	X	X		-03	
1005134-14	BBG-SB50-1-2-10B	5.18	1750	SO	3								X	X	X	X	X		-04	
1005132-17	BBG-SS71-0-1-10B	5.19	0735	SO	3							X		X	X	X	X		-05	
-18	BBG-SS71D-0-1-10B	5.19	0740	SO	3							X		X	X	X				
-19	BBG-SB71-4-5-10B	5.19	0755	SO	3							X		X	X	X	X		1005212-06	
-20	BBG-SB71D-4-5-10B	5.19	0800	SO	2							X		X	X	X				
1005133-12	BBG-SS72-0-1-10B	5.19	0835	SO	3							X		X	X	X	X		1005212-07	
-13	BBG-SB72-2-3-10B	5.19	0845	SO	3							X		X	X	X	X		-08	

Lab Use Only

Sample Unpacked By: K. Manning
Sample Order Entry By: [signature]
Samples Received in Good Condition? (Y) or N
If no, explain:

Cyanide samples checked for sulfide & chlorine? Y or (N/A)
625 & Phenol samples checked for chlorine? Y or (N/A)
608 samples checked for pH between 5.0-9.0? Y or (N/A)

Comments:

Sample Custody

Relinquished by: [signature]	Date/Time: 5.21.10 1600	Received by: K. Manning	Date/Time: 5.21.10 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:

Subcontract? (Y) or N If yes, where? Grain size to CTLABS
Custody Seal(s) intact? Y or (N)
On Ice? (Y) or N
Cooler Temp: 4.3 °C

Samples stored 60 days after date report mailed at no extra charge.

Client Delivery - KM 5.21.10

White & Yellow copy to lab • Pink copy for customer

SN0015

CompuChem
A Division Of
Liberty Analytical Corp.

Sample ID Cross Reference

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-01	SB85-1.5-2.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB85-1.5-2.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-01	SB85-1.5-2.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB85-1.5-2.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-02	SB78-3.5-4.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB78-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-02	SB78-3.5-4.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB78-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-03	SS77-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS77-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-03	SS77-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS77-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-04	SB77-3.5-4.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB77-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-04	SB77-3.5-4.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB77-3.5-4.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-05	SS79-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS79-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-05	SS79-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS79-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-06	SB79-11-12	05/13/2010	05/14/2010	06/03/2010	BBG-SB79-11-12-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-06	SB79-11-12	05/13/2010	05/14/2010	06/10/2010	BBG-SB79-11-12-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-07	SS83-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS83-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-07	SS83-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS83-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-08	SB83-6.5-7.5	05/13/2010	05/14/2010	06/03/2010	BBG-SB83-6.5-7.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-08	SB83-6.5-7.5	05/13/2010	05/14/2010	06/10/2010	BBG-SB83-6.5-7.5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-09	SS62-0-1	05/13/2010	05/14/2010	06/03/2010	BBG-SS62-0-1-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-09	SS62-0-1	05/13/2010	05/14/2010	06/10/2010	BBG-SS62-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-10	SS74-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS74-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-10	SS74-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS74-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-11	SS86-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS86-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-11	SS86-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS86-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-12	SB86-3-4	05/14/2010	05/14/2010	06/03/2010	BBG-SB86-3-4-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-12	SB86-3-4	05/14/2010	05/14/2010	06/10/2010	BBG-SB86-3-4-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-13	SS84-0-1	05/14/2010	05/14/2010	06/03/2010	BBG-SS84-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-13	SS84-0-1	05/14/2010	05/14/2010	06/10/2010	BBG-SS84-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-14	SB84-6-7	05/14/2010	05/14/2010	06/03/2010	BBG-SB84-6-7-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-14	SB84-6-7	05/14/2010	05/14/2010	06/10/2010	BBG-SB84-6-7-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-15	SS81-0-1	05/18/2010	05/21/2010	06/03/2010	BBG-SS81-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-15	SS81-0-1	05/18/2010	05/21/2010	06/10/2010	BBG-SS81-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-16	SB81-5-6	05/18/2010	05/21/2010	06/03/2010	BBG-SB81-5-6-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-16	SB81-5-6	05/18/2010	05/21/2010	06/10/2010	BBG-SB81-5-6-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-17	SS71-0-1	05/19/2010	05/21/2010	06/03/2010	BBG-SS71-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-17	SS71-0-1	05/19/2010	05/21/2010	06/10/2010	BBG-SS71-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-18	SS71D-0-1	05/19/2010	05/21/2010	06/03/2010	BBG-SS71D-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-18	SS71D-0-1	05/19/2010	05/21/2010	06/10/2010	BBG-SS71D-0-1-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-19	SB71-4-5	05/19/2010	05/21/2010	06/03/2010	BBG-SB71-4-5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-19	SB71-4-5	05/19/2010	05/21/2010	06/10/2010	BBG-SB71-4-5-10B
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-20	SB71D-4-5	05/19/2010	05/21/2010	06/03/2010	BBG-SB71D-4-5-10B

LAB WO	Project	Sample #	Field ID	Sample Date	Receive Date	DueDate	Chain of Custody ID
1005132	CTO-094 MCB CAMP LEJEUNE/39530	1005132-20	SB71D-4-5	05/19/2010	05/21/2010	06/10/2010	BBG-SB71D-4-5-10B

WORK ORDER

Printed: 6/14/2010 12:55:14PM

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Report To:
CH2M HILL, INC.
REBEKHA SHAW
5700 CLEVELAND STREET, SUITE 101
VIRGINIA BEACH, VA 23462
Phone: 757-671-8311
Fax: -

Invoice To:
CH2M HILL, INC.
ACCOUNTS PAYABLE
P.O. BOX 241329
DENVER, CO 80224
Phone :757-671-8311
Fax: -

Date Due: 06/10/2010 00:00 (20 day TAT)

Received By: Cathy Dover — Date Received: 05/21/2010 16:00

Logged In By: Cathy Dover — Date Logged In: 05/16/2010 22:26

J & B Flags?: **YES**	TICS?:**NO**	Deliverable: **Style 9 PQL/MDL Forms**	EDD : **30) CH2 SNEDD**
Metals ND to? **RL/CRQL**	Spike Level: **FULL Spike**		

DOD CRITERIA*USE 1005132-01 FOR QC*SIM 8270C=PAH.SUB*PEST 8081A*TAL METALS*HEXAVALENT Cr 7196A + Cr+3 REPORTED ON FORMS & EDD

Analysis	Due	TAT	Expires	Received	Comments
1005132-01 SB85-1.5-2.5 [Soil] Sampled 05/13/2010 07:45 Eastern					**USE FOR QC**
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 07:45	05/14/2010 09:20	SubList = SVsim- PAH
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 07:45	05/14/2010 09:20	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 07:45	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 07:45	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 07:45	05/14/2010 09:20	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 07:45	05/14/2010 09:20	
1005132-02 SB78-3.5-4.5 [Soil] Sampled 05/13/2010 10:40 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 10:40	05/14/2010 09:20	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 10:40	05/14/2010 09:20	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 10:40	05/14/2010 09:20	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 10:40	05/14/2010 09:20	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 10:40	05/14/2010 09:20	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 10:40	05/14/2010 09:20	SubList = SVsim- PAH

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires		Comments
1005132-03 SS77-0-1 [Soil] Sampled 05/13/2010 12:05 Eastern					
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 12:05	05/14/2010 16:00	SubList = GC- 8081 DOD
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 12:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 12:05	05/14/2010 16:00	SubList = SVsim- PAH
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 12:05	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 12:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 12:05	05/14/2010 16:00	
1005132-04 SB77-3.5-4.5 [Soil] Sampled 05/13/2010 12:10 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 12:10	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 12:10	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 12:10	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 12:10	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 12:10	05/14/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 12:10	05/14/2010 16:00	
1005132-05 SS79-0-1 [Soil] Sampled 05/13/2010 15:10 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:10	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:10	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:10	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:10	05/14/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:10	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:10	05/14/2010 16:00	
1005132-06 SB79-11-12 [Soil] Sampled 05/13/2010 15:30 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:30	05/14/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:30	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:30	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:30	05/14/2010 16:00	SubList = GC- 8081 DOD
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:30	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:30	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**[Group]**

Analysis	Due	TAT	Expires	Comments	
1005132-07 SS83-0-1 [Soil] Sampled 05/13/2010 15:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 15:55	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 15:55	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 15:55	05/14/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 15:55	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 15:55	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 15:55	05/14/2010 16:00	SubList = SVsim- PAH
1005132-08 SB83-6.5-7.5 [Soil] Sampled 05/13/2010 16:05 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 16:05	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 16:05	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 16:05	05/14/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 16:05	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 16:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 16:05	05/14/2010 16:00	SubList = SVsim- PAH
1005132-09 SS62-0-1 [Soil] Sampled 05/13/2010 16:40 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/09/2010 16:40	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/27/2010 16:40	05/14/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/27/2010 16:40	05/14/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/09/2010 16:40	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/09/2010 16:40	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/10/2010 16:40	05/14/2010 16:00	
1005132-10 SS74-0-1 [Soil] Sampled 05/14/2010 10:15 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 10:15	05/14/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 10:15	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 10:15	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 10:15	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 10:15	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 10:15	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Reviewed**

Analysis	Due	TAT	Expires		Comments
1005132-11 SS86-0-1 [Soil] Sampled 05/14/2010 11:05 Eastern					
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 11:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 11:05	05/14/2010 16:00	SubList = SVsim- PAH
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 11:05	05/14/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 11:05	05/14/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 11:05	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 11:05	05/14/2010 16:00	
1005132-12 SB86-3-4 [Soil] Sampled 05/14/2010 11:15 Eastern					
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 11:15	05/14/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 11:15	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 11:15	05/14/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 11:15	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 11:15	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 11:15	05/14/2010 16:00	
1005132-13 SS84-0-1 [Soil] Sampled 05/14/2010 08:55 Eastern					
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 08:55	05/14/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 08:55	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 08:55	05/14/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 08:55	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 08:55	05/14/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 08:55	05/14/2010 16:00	SubList = GC- 8081 DOD
1005132-14 SB84-6-7 [Soil] Sampled 05/14/2010 09:05 Eastern					
GC-8081A/PEST	06/10/2010 16:00	20	05/28/2010 09:05	05/14/2010 16:00	SubList = GC- 8081 DOD
Solids, Dry Weight	06/03/2010 16:00	13	11/10/2010 09:05	05/14/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	05/28/2010 09:05	05/14/2010 16:00	SubList = SVsim- PAH
6010B METALS TAL	06/10/2010 16:00	20	11/10/2010 09:05	05/14/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/11/2010 09:05	05/14/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/10/2010 09:05	05/14/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Prepared**

Analysis	Due	TAT	Expires		Comments
1005132-15 SS81-0-1 [Soil] Sampled 05/18/2010 16:00 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/01/2010 16:00	05/21/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/14/2010 16:00	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/01/2010 16:00	05/21/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/15/2010 16:00	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/14/2010 16:00	05/21/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/14/2010 16:00	05/21/2010 16:00	
1005132-16 SB81-5-6 [Soil] Sampled 05/18/2010 16:20 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/14/2010 16:20	05/21/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/01/2010 16:20	05/21/2010 16:00	SubList = SVsim- PAH
GC-8081A/PEST	06/10/2010 16:00	20	06/01/2010 16:20	05/21/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/15/2010 16:20	05/21/2010 16:00	
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/14/2010 16:20	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/14/2010 16:20	05/21/2010 16:00	
1005132-17 SS71-0-1 [Soil] Sampled 05/19/2010 07:35 Eastern					
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:35	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:35	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:35	05/21/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:35	05/21/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:35	05/21/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:35	05/21/2010 16:00	SubList = SVsim- PAH
1005132-18 SS71D-0-1 [Soil] Sampled 05/19/2010 07:40 Eastern					
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:40	05/21/2010 16:00	SubList = GC- 8081 DOD
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:40	05/21/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:40	05/21/2010 16:00	
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:40	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:40	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:40	05/21/2010 16:00	

1005132

COMPUCHEM

Client:	**CH2M HILL, INC.**	**Project Manager:**	**Cathy Dover**
Project:	**CTO-094 MCB CAMP LEJEUNE/395307.SA.DM**	**Project Number:**	**CTO-094 MCB CAMP LEJEUNE/395307.SA.D**
SDG:	**1005132** **CASE:**	**Status:**	**Reported**

Analysis	Due	TAT	Expires		Comments
1005132-19 SB71-4-5 [Soil] Sampled 05/19/2010 07:55 Eastern					
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 07:55	05/21/2010 16:00	
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 07:55	05/21/2010 16:00	SubList = SVsim- PAH
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 07:55	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 07:55	05/21/2010 16:00	SubList = GC- 8081 DOD
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 07:55	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 07:55	05/21/2010 16:00	
1005132-20 SB71D-4-5 [Soil] Sampled 05/19/2010 08:00 Eastern					
SVOC 8270C SIM PAH	06/10/2010 16:00	20	06/02/2010 08:00	05/21/2010 16:00	SubList = SVsim- PAH
Solids, Dry Weight	06/03/2010 16:00	13	11/15/2010 08:00	05/21/2010 16:00	
6010B METALS TAL	06/10/2010 16:00	20	11/15/2010 08:00	05/21/2010 16:00	
7470A/7471A Mercury	06/10/2010 16:00	20	06/16/2010 08:00	05/21/2010 16:00	
GC-8081A/PEST	06/10/2010 16:00	20	06/02/2010 08:00	05/21/2010 16:00	SubList = GC- 8081 DOD
TRIVALENT CHROMIUM Cr3 7196A	06/10/2010 16:00	20	11/15/2010 08:00	05/21/2010 16:00	

Analysis groups included in this work order

TRIVALENT CHROMIUM Cr3 7196A

Total Cr by Metals HEXAVALENT CHROMI

INTERNAL DIGESTION COC

INTERNAL DIGESTION COC

0052522

COMPUCHEM

Printed: 6/2/2010 9:27:16AM

70

Matrix: Soil **Prepared using: WET CHEM - Default Prep GenChe**

Lab Number	Client ID	Sample Type	
0052522-BLK1	0052522-BLK1	Blank	
0052522-BS1	0052522-BS1	LCS	
0052522-MS1	SB85-1.5-2.5MS	Matrix Spike	
0052522-MSD1	SB85-1.5-2.5MSD	Matrix Spike Dup	
1005132-01	SB85-1.5-2.5	Sample	
1005132-02	SB78-3.5-4.5	Sample	
1005132-03	SS77-0-1	Sample	
1005132-04	SB77-3.5-4.5	Sample	
1005132-05	SS79-0-1	Sample	
1005132-06	SB79-11-12	Sample	
1005132-07	SS83-0-1	Sample	
1005132-08	SB83-6.5-7.5	Sample	
1005132-09	SS62-0-1	Sample	
1005132-10	SS74-0-1	Sample	
1005132-11	SS86-0-1	Sample	
1005132-12	SB86-3-4	Sample	
1005132-13	SS84-0-1	Sample	
1005132-14	SB84-6-7	Sample	

[signature]	6-7-10	Wetchem [signature]	6-7-10
Relinquished By	Date	Received By	Date
[signature]	6-7-10	Storage	6-7-10
Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date

0052522

COMPUCHEM

Printed: 6/2/2010 9:27:16AM

Matrix: Soil **Prepared using: WET CHEM - Default Prep GenChe**

Lab Number	Client ID	Sample Type	
1005132-15	SS81-0-1	Sample	
1005132-16	SB81-5-6	Sample	
1005132-17	SS71-0-1	Sample	
1005132-18	SS71D-0-1	Sample	
1005132-19	SB71-4-5	Sample	
1005132-20	SB71D-4-5	Sample	

[signature]	6-7-10	Wetcher	6-7-10
Relinquished By	Date	Received By	Date
Welcher	6-7-10	Storey	6-7-10
Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date

CompuChem

A Division Of

Liberty Analytical Corp.

7/6/2010

REBEKHA SHAW

CH2M HILL, INC.

5700 CLEVELAND STREET, SUITE 101

VIRGINIA BEACH, VA 23462

Subject:

Report of Data - Project: CTO-094 MCB CAMP LEJEUNE/395307.S. WorkOrder: 1005133

Attn.: REBEKHA SHAW

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: CH2M HILL, INC. **Work:** 1005133

Project: CTO-094 MCB CAMP LEJEUNE/395307.SA.DM **Sdg:** 1005133

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1005133-01	SS73-0-1	Soil	05/14/2010 08:25	05/14/2010 16:00
1005133-02	SB74-4-5	Soil	05/17/2010 16:00	05/19/2010 09:05
1005133-03	SS75-0-1	Soil	05/17/2010 16:35	05/19/2010 09:05
1005133-04	SB75-3.5-4.5	Soil	05/17/2010 16:45	05/19/2010 09:05
1005133-05	SS63-0-1	Soil	05/18/2010 08:40	05/19/2010 09:05
1005133-06	SB63-5.5-6.5	Soil	05/18/2010 09:00	05/19/2010 09:05
1005133-07	SS61-0-1	Soil	05/18/2010 09:45	05/19/2010 09:05
1005133-08	SS61D-0-1	Soil	05/18/2010 09:50	05/19/2010 09:05
1005133-09	SB61-6-7	Soil	05/18/2010 09:55	05/19/2010 09:05
1005133-10	SB61D-6-7	Soil	05/18/2010 10:00	05/19/2010 09:05
1005133-11	SS67-0-1	Soil	05/18/2010 17:00	05/21/2010 16:00
1005133-12	SS72-0-1	Soil	05/19/2010 08:35	05/21/2010 16:00
1005133-13	SB72-2-3	Soil	05/19/2010 08:45	05/21/2010 16:00
1005133-14	SS88-0-1	Soil	05/19/2010 09:10	05/21/2010 16:00
1005133-15	SB88-2.5-3.5	Soil	05/19/2010 09:25	05/21/2010 16:00
1005133-16	SS76-0-1	Soil	05/19/2010 09:55	05/21/2010 16:00
1005133-17	SB76-6-7	Soil	05/19/2010 10:45	05/21/2010 16:00
1005133-18	SS87-0-1	Soil	05/19/2010 11:45	05/21/2010 16:00
1005133-19	SB87-3-4	Soil	05/19/2010 11:55	05/21/2010 16:00
1005133-20	SS68-0-1	Soil	05/20/2010 09:30	05/21/2010 16:00

39CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

SW-846

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field and analytical samples, reanalyses, blanks, spikes, duplicates, and laboratory control samples. The sample data package consists of the following:

A. Cover Page

B. Sample Data

C. Chain-of-Custody (CoC) Documentation

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005133

A. Cover Page -

Inorganic Analyses Data Package

The Cover Page includes laboratory information, the Case and SDG numbers, the client ID numbers in alphanumeric order showing the client ID numbers cross-referenced with Lab ID numbers, comments, and completion of the statement on the use of ICP background and interelement correction for the samples.

On separate pages, the laboratory will include any problems encountered; both technical and administrative, the corrective action taken, and the resolution. This information is included in the Inorganic Case Summary Narrative which follows the Cover Page.

SW846 - METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
SB61-6-7	1005133-09
SB61D-6-7	1005133-10
SB63-5.5-6.5	1005133-06
SB72-2-3	1005133-13
SB74-4-5	1005133-02
SB75-3.5-4.5	1005133-04
SB76-6-7	1005133-17
SB87-3-4	1005133-19
SB88-2.5-3.5	1005133-15
SS61-0-1	1005133-07
SS61D-0-1	1005133-08
SS63-0-1	1005133-05
SS67-0-1	1005133-11
SS68-0-1	1005133-20
SS72-0-1	1005133-12
SS73-0-1	1005133-01
SS73-0-1D	0052615-DUP1
SS73-0-1D	0052616-DUP1
SS73-0-1S	0052615-MS1
SS73-0-1S	0052616-MS1
SS73-0-1SD	0052615-MSD1
SS73-0-1SD	0052616-MSD1
SS75-0-1	1005133-03
SS76-0-1	1005133-16
SS87-0-1	1005133-18

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: for Susan Bass Name: Susan W Bass

Date: 6-14-10 Title: Senior Chemist

SW846 - METALS

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

SOW No.: SW846

EPA Sample No.	Lab Sample ID.
SS88-0-1	1005133-14

Were ICP interelement corrections applied?	Yes/No	YES
Were ICP background corrections applied?	Yes/No	YES
If yes-were raw data generated before application of background corrections?	Yes/No	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Susan W Bass Name: Susan W Bass

Date: 6-14-96 Title: Senior Chemist

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue
Cary, NC 27513

SDG NARRATIVE
SDG # 1005133

The indicated Sample Delivery Group (SDG) consisting of twenty (20) solid samples was received into the laboratory information management system (LIMS) on May 14, 19 and 21, 2010 intact and in good condition with Chain of Custody (COC) Records in order, unless otherwise noted in any attachments or Quality Assurance Notices. The temperature of the samples upon receipt was 1.5 to 4.3°C. Sample ID's reported in this data package are noted by the receiving department on the COC if they differ from those listed by the samplers on the COC.

The samples were prepared and analyzed in accordance with SW846 methodology for the requested TAL metals and mercury.

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV & CCV) and blanks (ICB & CCB) associated with this data were confirmed to be within allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verification (PBS & LCSS) was found to be within acceptable ranges and field samples were prepared and analyzed within the specified holding times.

MATRIX RELATED QUALITY CONTROL:

The sample matrix spikes, CCN = 1005133-01 ID SS73-0-1S and SS73-0-1SD were inside control limits for the requested analytes except antimony and lead.

The sample matrix duplicate, CCN = 1005133-01 ID SS73-0-1D was inside control limits for the requested analytes except iron.

CLP control limits for duplicate determinations are +/- 20% Relative Percent Difference (RPD) for concentrations greater than or equal to five times the CRDL in both the original and duplicate samples, and +/- the CRDL for concentrations less than five times the CRDL. The RPD is not calculated if both the original and duplicate values fall below the IDL.

A five-fold serial dilution of sample, CCN = 1005133-01 ID SS73-0-1L was performed in accordance with requirements for ICP and mercury analysis.

The adjusted sample concentration was inside control limits for the requested analytes except magnesium.

Control limits for serial dilution are defined as a deviation less than or equal to 10% in the dilution adjusted concentrations from the original values for all analyte concentrations greater than fifty (50) times their respective Instrument Detection Limit (IDL) in the original sample.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

Susan W. Bass
Senior Chemist
June 13, 2010

Organic Undecanted Dry Weight Worksheet

0051921

Procedure 143/190

T. WILLIAMS — Employee
1289 — ID No

Temp in: 104°

Temp out: 100°C

Date Assigned: 5-20-10

Date/Time in: 5-20-10 @ 1605

Date/Time out: 5-21-10 1625

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1005132-01	SB85-1.5-2.5	Sample	1.32	6.35	5.49
1005132-02	SB78-3.5-4.5	Sample	1.31	7.75	6.83
1005132-03	SS77-0-1	Sample	1.32	7.26	5.89
1005132-04	SB77-3.5-4.5	Sample	1.34	7.85	7.20
1005132-05	SS79-0-1	Sample	1.31	6.38	6.18
1005132-06	SB79-11-12	Sample	1.34	6.63	5.72
1005132-07	SS83-0-1	Sample	1.32	7.20	6.84
1005132-08	SB83-6.5-7.5	Sample	1.33	7.15	6.28
1005132-09	SS62-0-1	Sample	1.33	6.25	2.85
1005132-10	SS74-0-1	Sample	1.34	7.44	7.28
1005132-11	SS86-0-1	Sample	1.34	7.03	6.30
1005132-12	SB86-3-4	Sample	1.33	7.01	6.09
1005132-13	SS84-0-1	Sample	1.31	7.40	7.10
1005132-14	SB84-6-7	Sample	1.34	7.41	6.30
1005133-01	SS73-0-1	Sample	1.34	6.16	5.96
1005134-01	SS02-0-1	Sample	1.32	7.54	6.55
1005134-02	SS02D-0-1	Sample	1.32	7.03	6.33
1005134-03	SB02-5-6	Sample	1.34	6.83	5.72
1005134-04	SB02D-5-6	Sample	1.35	6.79	5.60
1005134-05	SB05-7-8	Sample	1.35	6.82	5.30

Entered into Element by: M [illegible] 5-24-10
Date

Organic Undecanted Dry Weight Worksheet

0052410

Procedure: 143/190

T. WILLIAMS — Employee
1289 — ID No

Temp in: 105°
Temp out: 104°

Date Assigned: 5-24-10
Date/Time in: 5-24-10@1636
Date/Time out: 5-25-10@1095

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
005133-02	SB74-4-5	Sample	1.33	6.17	5.79
005133-03	SS75-0-1	Sample	1.33	7.60	6.65
005133-04	SB75-3.5-4.5	Sample	1.34	6.79	5.97
005133-05	SS63-0-1	Sample	1.31	6.89	6.56
005133-06	SB63-5.5-6.5	Sample	1.32	7.23	6.25
005133-07	SS61-0-1	Sample	1.33	6.45	6.03
005133-08	SS61D-0-1	Sample	1.34	7.19	6.79
005133-09	SB61-6-7	Sample	1.32	7.55	6.69
005133-10	SB61D-6-7	Sample	1.34	7.50	6.67
005133-11	SS67-0-1	Sample	1.32	6.70	3.73
005133-12	SS72-0-1	Sample	1.33	7.56	7.30
005133-13	SB72-2-3	Sample	1.33	6.73	6.04
005133-14	SS88-0-1	Sample	1.33	6.39	5.95
005133-15	SB88-2.5-3.5	Sample	1.34	7.68	5.94
005133-16	SS76-0-1	Sample	1.33	7.25	7.10
005133-17	SB76-6-7	Sample	1.32	6.68	5.78
005133-18	SS87-0-1	Sample	1.32	6.69	5.59
005133-19	SB87-3-4	Sample	1.31	7.16	5.61
005133-20	SS68-0-1	Sample	1.34	7.43	6.51

Entered into Element by: [signature] 5-26-10
Date

DATA REPORTING QUALIFIERS FOR INORGANICS

On Form I, under the column labeled "C" for concentration qualifier and "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on Form I for each analyte.

The C (concentration) qualifiers used are:

U: This flag indicates the analyte was analyzed for but not detected. This reported value was obtained from a reading that was less than the Instrument Detection Limit (IDL). The IDL will be adjusted to reflect any dilution and, for soils, the percent moisture.

B: This flag indicates the analyte was analyzed for and the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Method Detection Limit (MDL).

The Q qualifiers used are:

E: This flag indicates an estimated value. This flag is used:

1. When the serial dilution (a five fold dilution for CLP and a five fold dilution for SW-846 method 6010B) results are not within 10%. The analyte concentration must be sufficiently high (minimally a factor of 50X above the IDL in the original sample).

N: This flag indicates the sample spike recovery is outside of control limits:

***:** This flag is used for duplicate analysis when the sample and the sample duplicate results are not within control limits.

The extensions: D, S, SD, L. A, added to the end of the client ID represent as follows:

D: matrix duplicate
S: matrix spike
SD: matrix spike duplicate
L: serial dilution
A: post digestion spike

Method Codes:

P: ICP PLASMA
CV: MERCURY COLD VAPOR AA
CA: MIDI-DISTILLATION SPECTROPHOTOMETRIC
MS: MASS SPECTROMETRY
AS: SEMI-AUTOMATED SPECTROPHOTOMETRIC

B. Sample Data

1. Results
2. Quality Control Data
3. Quarterly Verification of Instrument Performance
4. Raw Data
5. Digestion and Distillation Logs

LAB CODE : LIBRTY

CONTRACT # : SW-846

CASE # : _____

SDG # : 1005133

1. Results

Sample results shall be arranged in packets with the Inorganic Analysis Data Sheet (Form I - IN). These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers, and shall include all the samples in the SDG.

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB61-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-09

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16600			P
7440-36-0	Antimony	1.5		N	P
7440-38-2	Arsenic	0.50	B		P
7440-39-3	Barium	13.5	B		P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.24	B		P
7440-70-2	Calcium	138	B		P
7440-47-3	Chromium	13.6			P
7440-48-4	Cobalt	0.59			P
7440-50-8	Copper	1.4			P
7439-89-6	Iron	2910		*	P
7439-92-1	Lead	4.8		N	P
7439-95-4	Magnesium	439	B	E	P
7439-96-5	Manganese	9.0			P
7439-97-6	Mercury	0.038	U		CV
7440-02-0	Nickel	2.5			P
7440-09-7	Potassium	729			P
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.04	B		P
7440-23-5	Sodium	63.1	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	14.9			P
7440-66-6	Zinc	5.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB61D-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-10

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 86.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13000			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	12.3	B		P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.17	B		P
7440-70-2	Calcium	122	B		P
7440-47-3	Chromium	11.5			P
7440-48-4	Cobalt	0.56	B		P
7440-50-8	Copper	1.4			P
7439-89-6	Iron	2670		*	P
7439-92-1	Lead	4.7		N	P
7439-95-4	Magnesium	378	B	E	P
7439-96-5	Manganese	8.4			P
7439-97-6	Mercury	0.038	U		CV
7440-02-0	Nickel	2.1			P
7440-09-7	Potassium	612			P
7782-49-2	Selenium	0.57	U		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium	53.9	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	13.5			P
7440-66-6	Zinc	4.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB63-5.5-6.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-06

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 83.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13200			P
7440-36-0	Antimony	1.6		N	P
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	15.6	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.28	B		P
7440-70-2	Calcium	133	B		P
7440-47-3	Chromium	15.7			P
7440-48-4	Cobalt	0.34	B		P
7440-50-8	Copper	1.7			P
7439-89-6	Iron	4470		*	P
7439-92-1	Lead	6.4		N	P
7439-95-4	Magnesium	361	B	E	P
7439-96-5	Manganese	7.4			P
7439-97-6	Mercury	0.040	U		CV
7440-02-0	Nickel	2.2			P
7440-09-7	Potassium	406	B		P
7782-49-2	Selenium	0.60	U		P
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	117	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	24.5			P
7440-66-6	Zinc	5.4			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB72-2-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-13

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12100			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	1.8			P
7440-39-3	Barium	12.5	B		P
7440-41-7	Beryllium	0.15	B		P
7440-43-9	Cadmium	0.31	B		P
7440-70-2	Calcium	227	B		P
7440-47-3	Chromium	13.0			P
7440-48-4	Cobalt	0.60			P
7440-50-8	Copper	1.6			P
7439-89-6	Iron	6390		*	P
7439-92-1	Lead	5.9		N	P
7439-95-4	Magnesium	400	B	E	P
7439-96-5	Manganese	11.6			P
7439-97-6	Mercury	0.038	U		CV
7440-02-0	Nickel	3.0			P
7440-09-7	Potassium	420	B		P
7782-49-2	Selenium	0.43	B		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium	48.5	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	18.9			P
7440-66-6	Zinc	5.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SB74-4-5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-02

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 92.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7340			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	1.5			P
7440-39-3	Barium	9.0	B		P
7440-41-7	Beryllium	0.13	B		P
7440-43-9	Cadmium	0.15	B		P
7440-70-2	Calcium	77.6	B		P
7440-47-3	Chromium	9.5			P
7440-48-4	Cobalt	0.42	B		P
7440-50-8	Copper	2.9			P
7439-89-6	Iron	2100		*	P
7439-92-1	Lead	6.1		N	P
7439-95-4	Magnesium	306	B	E	P
7439-96-5	Manganese	6.0			P
7439-97-6	Mercury	0.036	U		CV
7440-02-0	Nickel	1.2			P
7440-09-7	Potassium	326	B		P
7782-49-2	Selenium	0.37	B		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	58.5	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	10.6			P
7440-66-6	Zinc	4.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB75-3.5-4.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-04

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15300			P
7440-36-0	Antimony	1.2		N	P
7440-38-2	Arsenic	0.77	B		P
7440-39-3	Barium	14.2	B		P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.32	B		P
7440-70-2	Calcium	71.9	B		P
7440-47-3	Chromium	15.4			P
7440-48-4	Cobalt	0.57	U		P
7440-50-8	Copper	0.71			P
7439-89-6	Iron	5670		*	P
7439-92-1	Lead	9.0		N	P
7439-95-4	Magnesium	428	B	E	P
7439-96-5	Manganese	9.4			P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	1.9			P
7440-09-7	Potassium	416	B		P
7782-49-2	Selenium	0.33	B		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium	51.1	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	15.1			P
7440-66-6	Zinc	4.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB76-6-7

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-17

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16200			P
7440-36-0	Antimony	0.96	B	N	P
7440-38-2	Arsenic	9.0			P
7440-39-3	Barium	22.0	B		P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium	159	B		P
7440-47-3	Chromium	32.3			P
7440-48-4	Cobalt	0.58	U		P
7440-50-8	Copper	4.5			P
7439-89-6	Iron	41800		*	P
7439-92-1	Lead	12.9		N	P
7439-95-4	Magnesium	660		E	P
7439-96-5	Manganese	16.6			P
7439-97-6	Mercury	0.040	U		CV
7440-02-0	Nickel	2.4			P
7440-09-7	Potassium	1190			P
7782-49-2	Selenium	1.1			P
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	56.2	B		P
7440-28-0	Thallium	1.7			P
7440-62-2	Vanadium	53.4			P
7440-66-6	Zinc	10.0			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SB87-3-4

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-19

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 73.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25600			P
7440-36-0	Antimony	1.6		N	P
7440-38-2	Arsenic	2.0			P
7440-39-3	Barium	21.1	B		P
7440-41-7	Beryllium	0.29	B		P
7440-43-9	Cadmium	0.57	B		P
7440-70-2	Calcium	202	B		P
7440-47-3	Chromium	28.2			P
7440-48-4	Cobalt	0.46	B		P
7440-50-8	Copper	0.90			P
7439-89-6	Iron	8310		*	P
7439-92-1	Lead	9.3		N	P
7439-95-4	Magnesium	820		E	P
7439-96-5	Manganese	12.2			P
7439-97-6	Mercury	0.037	B		CV
7440-02-0	Nickel	3.7			P
7440-09-7	Potassium	930			P
7782-49-2	Selenium	0.96			P
7440-22-4	Silver	0.65	U		P
7440-23-5	Sodium	84.0	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	39.4			P
7440-66-6	Zinc	9.3			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SB88-2.5-3.5

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-15

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 72.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16500			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	6.0			P
7440-39-3	Barium	20.6	B		P
7440-41-7	Beryllium	0.19	B		P
7440-43-9	Cadmium	0.46	B		P
7440-70-2	Calcium	112	B		P
7440-47-3	Chromium	23.6			P
7440-48-4	Cobalt	0.66	U		P
7440-50-8	Copper	1.6			P
7439-89-6	Iron	9690		*	P
7439-92-1	Lead	9.3		N	P
7439-95-4	Magnesium	553	B	E	P
7439-96-5	Manganese	10.5			P
7439-97-6	Mercury	0.045	U		CV
7440-02-0	Nickel	2.3			P
7440-09-7	Potassium	661	B		P
7782-49-2	Selenium	0.59	B		P
7440-22-4	Silver	0.66	U		P
7440-23-5	Sodium	84.3	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	56.8			P
7440-66-6	Zinc	6.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS61-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-07

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3480			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	5.3	B		P
7440-41-7	Beryllium	0.11	B		P
7440-43-9	Cadmium	0.12	B		P
7440-70-2	Calcium	101	B		P
7440-47-3	Chromium	3.6			P
7440-48-4	Cobalt	0.26	B		P
7440-50-8	Copper	0.58			P
7439-89-6	Iron	1730		*	P
7439-92-1	Lead	5.1		N	P
7439-95-4	Magnesium	80.2	B	E	P
7439-96-5	Manganese	9.2			P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	1.1			P
7440-09-7	Potassium	534	U		P
7782-49-2	Selenium	0.29	B		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	55.9	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	4.8			P
7440-66-6	Zinc	4.2			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS61D-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-08

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 93.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2350			P
7440-36-0	Antimony	1.5		N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	3.9	B		P
7440-41-7	Beryllium	0.07	B		P
7440-43-9	Cadmium	0.09	B		P
7440-70-2	Calcium	95.0	B		P
7440-47-3	Chromium	2.6			P
7440-48-4	Cobalt	0.33	B		P
7440-50-8	Copper	0.60			P
7439-89-6	Iron	1040		*	P
7439-92-1	Lead	2.9		N	P
7439-95-4	Magnesium	66.9	B	E	P
7439-96-5	Manganese	8.0			P
7439-97-6	Mercury	0.035	U		CV
7440-02-0	Nickel	0.84			P
7440-09-7	Potassium	536	U		P
7782-49-2	Selenium	0.26	B		P
7440-22-4	Silver	0.54	U		P
7440-23-5	Sodium	53.7	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	3.5			P
7440-66-6	Zinc	4.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS63-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-05

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 94.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2060			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	9.5	B		P
7440-41-7	Beryllium	0.14	B		P
7440-43-9	Cadmium	0.10	B		P
7440-70-2	Calcium	596			P
7440-47-3	Chromium	2.9			P
7440-48-4	Cobalt	0.53	U		P
7440-50-8	Copper	1.1			P
7439-89-6	Iron	1530		*	P
7439-92-1	Lead	9.0		N	P
7439-95-4	Magnesium	136	B	E	P
7439-96-5	Manganese	12.5			P
7439-97-6	Mercury	0.024	B		CV
7440-02-0	Nickel	0.71			P
7440-09-7	Potassium	53.4	B		P
7782-49-2	Selenium	0.37	B		P
7440-22-4	Silver	0.53	U		P
7440-23-5	Sodium	66.0	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	5.0			P
7440-66-6	Zinc	3.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS67-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-11

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 44.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6450			P
7440-36-0	Antimony	3.0		N	P
7440-38-2	Arsenic	1.3	B		P
7440-39-3	Barium	9.3	B		P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	0.19	B		P
7440-70-2	Calcium	2470			P
7440-47-3	Chromium	8.4			P
7440-48-4	Cobalt	0.55	B		P
7440-50-8	Copper	8.4			P
7439-89-6	Iron	2760		*	P
7439-92-1	Lead	26.6		N	P
7439-95-4	Magnesium	2120		E	P
7439-96-5	Manganese	9.7			P
7439-97-6	Mercury	0.054	B		CV
7440-02-0	Nickel	2.0			P
7440-09-7	Potassium	438	B		P
7782-49-2	Selenium	0.61	B		P
7440-22-4	Silver	0.11	B		P
7440-23-5	Sodium	4840			P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	11.3			P
7440-66-6	Zinc	8.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

SS68-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-20

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 84.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	235			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	1.2	U		P
7440-39-3	Barium	4.2	B		P
7440-41-7	Beryllium	0.05	B		P
7440-43-9	Cadmium	0.58	U		P
7440-70-2	Calcium	192	B		P
7440-47-3	Chromium	0.71	B		P
7440-48-4	Cobalt	0.58	U		P
7440-50-8	Copper	0.34	B		P
7439-89-6	Iron	98.9		*	P
7439-92-1	Lead	1.8		N	P
7439-95-4	Magnesium	33.0	B	E	P
7439-96-5	Manganese	2.0			P
7439-97-6	Mercury	0.039	U		CV
7440-02-0	Nickel	0.18	B		P
7440-09-7	Potassium	583	U		P
7782-49-2	Selenium	0.58	U		P
7440-22-4	Silver	0.04	B		P
7440-23-5	Sodium	67.6	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	0.57	B		P
7440-66-6	Zinc	2.2	B		P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS72-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-12

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 95.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3100			P
7440-36-0	Antimony	1.1		N	P
7440-38-2	Arsenic	0.62	B		P
7440-39-3	Barium	11.7	B		P
7440-41-7	Beryllium	0.05	B		P
7440-43-9	Cadmium	0.12	B		P
7440-70-2	Calcium	300	B		P
7440-47-3	Chromium	3.6			P
7440-48-4	Cobalt	0.28	B		P
7440-50-8	Copper	0.93			P
7439-89-6	Iron	1660		*	P
7439-92-1	Lead	3.2		N	P
7439-95-4	Magnesium	119	B	E	P
7439-96-5	Manganese	11.7			P
7439-97-6	Mercury	0.019	B		CV
7440-02-0	Nickel	1.1			P
7440-09-7	Potassium	507	U		P
7782-49-2	Selenium	0.51	U		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	43.7	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	5.2			P
7440-66-6	Zinc	3.7			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS
-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS73-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-01

Level (low/med): LOW Date Received: 5/14/2010

% Solids: 95.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4950			P
7440-36-0	Antimony	1.2		N	P
7440-38-2	Arsenic	0.81	B		P
7440-39-3	Barium	13.2	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.14	B		P
7440-70-2	Calcium	418	B		P
7440-47-3	Chromium	3.8			P
7440-48-4	Cobalt	0.40	B		P
7440-50-8	Copper	0.72			P
7439-89-6	Iron	1460		*	P
7439-92-1	Lead	6.8		N	P
7439-95-4	Magnesium	181	B	E	P
7439-96-5	Manganese	12.1			P
7439-97-6	Mercury	0.027	B		CV
7440-02-0	Nickel	1.5			P
7440-09-7	Potassium	521	U		P
7782-49-2	Selenium	0.52	U		P
7440-22-4	Silver	0.52	U		P
7440-23-5	Sodium	64.4	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	5.4			P
7440-66-6	Zinc	4.9			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS75-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-03

Level (low/med): LOW Date Received: 5/19/2010

% Solids: 84.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11100			P
7440-36-0	Antimony	1.1	B	N	P
7440-38-2	Arsenic	1.1	U		P
7440-39-3	Barium	11.2	B		P
7440-41-7	Beryllium	0.19	B		P
7440-43-9	Cadmium	0.17	B		P
7440-70-2	Calcium	340	B		P
7440-47-3	Chromium	10.3			P
7440-48-4	Cobalt	0.35	B		P
7440-50-8	Copper	0.74			P
7439-89-6	Iron	2200		*	P
7439-92-1	Lead	6.6		N	P
7439-95-4	Magnesium	322	B	E	P
7439-96-5	Manganese	7.8			P
7439-97-6	Mercury	0.058			CV
7440-02-0	Nickel	2.0			P
7440-09-7	Potassium	203	B		P
7782-49-2	Selenium	0.46	B		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium	60.6	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	12.7			P
7440-66-6	Zinc	3.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS76-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-16

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 97.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3660			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	1.1			P
7440-39-3	Barium	11.1	B		P
7440-41-7	Beryllium	0.12	B		P
7440-43-9	Cadmium	0.14	B		P
7440-70-2	Calcium	1130			P
7440-47-3	Chromium	3.5			P
7440-48-4	Cobalt	0.51	U		P
7440-50-8	Copper	1.2			P
7439-89-6	Iron	1500		*	P
7439-92-1	Lead	6.0		N	P
7439-95-4	Magnesium	146	B	E	P
7439-96-5	Manganese	16.6			P
7439-97-6	Mercury	0.018	B		CV
7440-02-0	Nickel	1.2			P
7440-09-7	Potassium	5.2	B		P
7782-49-2	Selenium	0.30	B		P
7440-22-4	Silver	0.51	U		P
7440-23-5	Sodium	52.9	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	4.7			P
7440-66-6	Zinc	4.1			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

SW846 - METALS

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.: SS87-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-18

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 79.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9520			P
7440-36-0	Antimony	1.3		N	P
7440-38-2	Arsenic	1.5			P
7440-39-3	Barium	9.3	B		P
7440-41-7	Beryllium	0.13	B		P
7440-43-9	Cadmium	0.15	B		P
7440-70-2	Calcium	147	B		P
7440-47-3	Chromium	12.4			P
7440-48-4	Cobalt	0.58	U		P
7440-50-8	Copper	0.45	B		P
7439-89-6	Iron	1290		*	P
7439-92-1	Lead	7.6		N	P
7439-95-4	Magnesium	250	B	E	P
7439-96-5	Manganese	6.2			P
7439-97-6	Mercury	0.056			CV
7440-02-0	Nickel	1.3			P
7440-09-7	Potassium	128	B		P
7782-49-2	Selenium	0.95			P
7440-22-4	Silver	0.58	U		P
7440-23-5	Sodium	67.7	B		P
7440-28-0	Thallium	1.2	U		P
7440-62-2	Vanadium	11.8			P
7440-66-6	Zinc	2.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
SS88-0-1

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Lab Sample ID: 1005133-14

Level (low/med): LOW Date Received: 5/21/2010

% Solids: 91.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12800			P
7440-36-0	Antimony	1.4		N	P
7440-38-2	Arsenic	3.2			P
7440-39-3	Barium	25.8			P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.51	B		P
7440-70-2	Calcium	1860			P
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt	0.55	U		P
7440-50-8	Copper	2.5			P
7439-89-6	Iron	9090		*	P
7439-92-1	Lead	22.3		N	P
7439-95-4	Magnesium	496	B	E	P
7439-96-5	Manganese	11.9			P
7439-97-6	Mercury	0.023	B		CV
7440-02-0	Nickel	2.6			P
7440-09-7	Potassium	468	B		P
7782-49-2	Selenium	0.27	B		P
7440-22-4	Silver	0.55	U		P
7440-23-5	Sodium	70.5	B		P
7440-28-0	Thallium	1.1	U		P
7440-62-2	Vanadium	25.3			P
7440-66-6	Zinc	15.6			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

2. Quality Control Data

a. Initial and Continuing Calibration Verification
[Form II (Part 1) - IN]

b. CRDL Standard for AA (if applicable) and ICP
[Form II (Part 2) - IN]

c. Blanks
[Form III - IN]

d. ICP Interference Check Sample
[Form IV - IN]

e. Spike Sample Recovery
[Form V (Part 1) - IN]

f. Post Digest Spike Sample Recovery
[Form V (Part 2) - IN]

g. Duplicates
[Form VI - IN]

h. Laboratory Control Sample
[Form VII - IN]

i. Standard Addition Results (if applicable)
[Form VIII - IN]

j. ICP Serial Dilutions
[Form IX - IN]

k. Preparation Log
[Form XIII - IN]

l. Analysis Run Log
[Form XIV - IN]

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2521.0	2399.05	95	50000.0	47069.55	94	47058.65	94	P
Antimony	994.0	976.21	98	1000.0	990.91	99	996.29	100	P
Arsenic	999.0	996.37	100	1000.0	1016.26	102	1013.31	101	P
Barium	497.0	492.53	99	1000.0	968.79	97	978.61	98	P
Beryllium	495.0	501.80	101	1000.0	1027.90	103	1011.86	101	P
Cadmium	496.0	487.73	98	1000.0	979.52	98	972.65	97	P
Calcium	10026.0	9633.91	96	50000.0	49156.48	98	48076.82	96	P
Chromium	490.0	486.02	99	1000.0	994.57	99	967.83	97	P
Cobalt	499.0	501.80	101	1000.0	1002.53	100	994.51	99	P
Copper	492.0	496.48	101	1000.0	1000.79	100	994.04	99	P
Iron	5082.0	4936.16	97	25000.0	24796.97	99	24381.52	98	P
Lead	1002.0	970.98	97	1000.0	971.55	97	966.83	97	P
Magnesium	6074.0	5968.23	98	50000.0	50393.88	101	49845.90	100	P
Manganese	499.0	494.23	99	1000.0	1009.72	101	991.00	99	P
Mercury	4.0	3.97	99	5.0	5.35	107	5.48	110	CV
Nickel	503.0	490.01	97	1000.0	977.04	98	969.90	97	P
Potassium	10021.0	10715.09	107	50000.0	50325.86	101	51647.23	103	P
Selenium	1029.0	976.20	95	1000.0	989.29	99	988.00	99	P
Silver	501.0	499.34	100	100.0	102.43	102	100.75	101	P
Sodium	10097.0	9585.22	95	50000.0	49340.85	99	49670.02	99	P
Thallium	1028.0	1003.90	98	1000.0	978.39	98	976.88	98	P
Vanadium	501.0	498.77	100	1000.0	1007.06	101	987.90	99	P
Zinc	1025.0	950.96	93	1100.0	1067.19	97	1041.33	95	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	46873.67	94	46975.37	94	P
Antimony				1000.0	993.25	99	985.33	99	P
Arsenic				1000.0	1005.00	100	1005.69	101	P
Barium				1000.0	982.97	98	960.52	96	P
Beryllium				1000.0	996.35	100	998.09	100	P
Cadmium				1000.0	959.31	96	960.70	96	P
Calcium				50000.0	47090.00	94	47894.27	96	P
Chromium				1000.0	935.07	94	942.58	94	P
Cobalt				1000.0	970.76	97	982.95	98	P
Copper				1000.0	986.81	99	995.79	100	P
Iron				25000.0	23932.94	96	24089.39	96	P
Lead				1000.0	957.82	96	962.99	96	P
Magnesium				50000.0	49156.25	98	49492.39	99	P
Manganese				1000.0	960.25	96	966.56	97	P
Mercury				5.0	5.56	111	5.55	111	CV
Nickel				1000.0	959.96	96	962.13	96	P
Potassium				50000.0	51886.59	104	51401.16	103	P
Selenium				1000.0	993.64	99	983.37	98	P
Silver				100.0	99.76	100	101.37	101	P
Sodium				50000.0	49808.88	100	49923.75	100	P
Thallium				1000.0	972.43	97	973.93	97	P
Vanadium				1000.0	965.22	97	971.54	97	P
Zinc				1100.0	1021.91	93	1041.93	95	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	46191.39	92	47022.25	94	P
Antimony				1000.0	994.83	99	998.97	100	P
Arsenic				1000.0	1015.71	102	1007.99	101	P
Barium				1000.0	949.88	95	958.52	96	P
Beryllium				1000.0	1014.55	101	1001.10	100	P
Cadmium				1000.0	988.30	99	969.58	97	P
Calcium				50000.0	49084.48	98	48094.06	96	P
Chromium				1000.0	958.40	96	951.90	95	P
Cobalt				1000.0	999.91	100	983.41	98	P
Copper				1000.0	1020.08	102	1007.46	101	P
Iron				25000.0	24562.81	98	24235.66	97	P
Lead				1000.0	982.90	98	966.77	97	P
Magnesium				50000.0	49677.59	99	49798.39	100	P
Manganese				1000.0	979.80	98	975.70	98	P
Mercury				5.0	5.57	111			CV
Nickel				1000.0	982.89	98	968.44	97	P
Potassium				50000.0	49758.69	100	51278.90	103	P
Selenium				1000.0	986.15	99	989.80	99	P
Silver				100.0	106.07	106	103.00	103	P
Sodium				50000.0	49569.43	99	50226.95	100	P
Thallium				1000.0	981.69	98	976.18	98	P
Vanadium				1000.0	970.93	97	969.86	97	P
Zinc				1100.0	1087.66	99	1047.23	95	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	46401.58	93	47205.22	94	P
Antimony				1000.0	997.63	100	1008.10	101	P
Arsenic				1000.0	1016.46	102	1019.16	102	P
Barium				1000.0	950.76	95	962.34	96	P
Beryllium				1000.0	1013.86	101	1025.53	103	P
Cadmium				1000.0	993.86	99	1001.47	100	P
Calcium				50000.0	49288.22	99	49811.32	100	P
Chromium				1000.0	975.48	98	989.16	99	P
Cobalt				1000.0	1003.13	100	1017.11	102	P
Copper				1000.0	1023.31	102	1038.98	104	P
Iron				25000.0	24828.84	99	25028.92	100	P
Lead				1000.0	983.95	98	991.94	99	P
Magnesium				50000.0	50015.39	100	50691.04	101	P
Manganese				1000.0	994.81	99	1010.36	101	P
Nickel				1000.0	986.48	99	995.88	100	P
Potassium				50000.0	49978.20	100	49890.55	100	P
Selenium				1000.0	986.26	99	992.86	99	P
Silver				100.0	106.22	106	108.11	108	P
Sodium				50000.0	49763.20	100	50159.54	100	P
Thallium				1000.0	980.90	98	981.04	98	P
Vanadium				1000.0	969.16	97	997.59	100	P
Zinc				1100.0	1096.43	100	1100.75	100	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	47697.79	95	48284.54	97	P
Antimony				1000.0	1009.78	101	1008.74	101	P
Arsenic				1000.0	1005.61	101	1002.28	100	P
Barium				1000.0	982.82	98	996.82	100	P
Beryllium				1000.0	1003.20	100	1005.24	101	P
Cadmium				1000.0	973.26	97	966.25	97	P
Calcium				50000.0	48228.34	96	48085.44	96	P
Chromium				1000.0	961.13	96	972.39	97	P
Cobalt				1000.0	992.16	99	986.28	99	P
Copper				1000.0	1018.95	102	1030.36	103	P
Iron				25000.0	24352.37	97	24283.99	97	P
Lead				1000.0	972.56	97	967.77	97	P
Magnesium				50000.0	50164.48	100	50369.53	101	P
Manganese				1000.0	984.85	98	988.12	99	P
Nickel				1000.0	973.48	97	966.24	97	P
Potassium				50000.0	51614.85	103	51495.04	103	P
Selenium				1000.0	987.54	99	985.10	99	P
Silver				100.0	103.90	104	104.21	104	P
Sodium				50000.0	50997.90	102	51137.69	102	P
Thallium				1000.0	984.49	98	973.74	97	P
Vanadium				1000.0	982.21	98	996.78	100	P
Zinc				1100.0	1044.80	95	1028.31	93	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum				50000.0	47350.82	95	46166.49	92	P
Antimony				1000.0	993.94	99	989.57	99	P
Arsenic				1000.0	988.29	99	988.59	99	P
Barium				1000.0	982.82	98	951.86	95	P
Beryllium				1000.0	999.09	100	1006.23	101	P
Cadmium				1000.0	959.10	96	974.58	97	P
Calcium				50000.0	47772.31	96	48900.97	98	P
Chromium				1000.0	960.03	96	975.13	98	P
Cobalt				1000.0	976.22	98	992.04	99	P
Copper				1000.0	1018.51	102	1017.51	102	P
Iron				25000.0	23960.79	96	24349.62	97	P
Lead				1000.0	958.77	96	970.22	97	P
Magnesium				50000.0	49557.64	99	49202.53	98	P
Manganese				1000.0	978.03	98	987.67	99	P
Nickel				1000.0	957.91	96	970.12	97	P
Potassium				50000.0	50506.01	101	48471.00	97	P
Selenium				1000.0	967.13	97	966.55	97	P
Silver				100.0	103.79	104	105.80	106	P
Sodium				50000.0	49921.02	100	48849.59	98	P
Thallium				1000.0	957.34	96	954.81	95	P
Vanadium				1000.0	980.52	98	978.84	98	P
Zinc				1100.0	1021.57	93	1064.39	97	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

SW846 - METALS

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Initial Calibration Source: EPA-0307

Continuing Calibration Source: HP0912103/4

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Aluminum	2521.0	2387.04	95	50000.0	46601.92	93	48117.13	96	P
Antimony	994.0	997.88	100	1000.0	1006.30	101	1028.66	103	P
Arsenic	999.0	1019.32	102	1000.0	1017.85	102	1041.03	104	P
Barium	497.0	479.98	97	1000.0	958.12	96	974.16	97	P
Beryllium	495.0	526.25	106	1000.0	1030.85	103	1025.44	103	P
Cadmium	496.0	497.12	100	1000.0	960.51	96	957.38	96	P
Calcium	10026.0	10543.47	105	50000.0	51044.57	102	50608.47	101	P
Chromium	490.0	496.39	101	1000.0	950.61	95	959.85	96	P
Cobalt	499.0	525.96	105	1000.0	1001.09	100	1007.56	101	P
Copper	492.0	512.36	104	1000.0	984.88	98	986.59	99	P
Iron	5082.0	5200.05	102	25000.0	24932.29	100	25227.68	101	P
Lead	1002.0	997.09	100	1000.0	960.77	96	981.82	98	P
Magnesium	6074.0	6130.18	101	50000.0	50454.35	101	51949.43	104	P
Manganese	499.0	519.96	104	1000.0	1004.65	100	1016.75	102	P
Nickel	503.0	498.45	99	1000.0	964.49	96	970.82	97	P
Potassium	10021.0	10164.73	101	50000.0	49208.86	98	52010.54	104	P
Selenium	1029.0	1003.70	98	1000.0	1006.71	101	1034.61	103	P
Silver	501.0	498.71	100	100.0	96.98	97	94.86	95	P
Sodium	10097.0	9317.24	92	50000.0	48622.41	97	50676.85	101	P
Thallium	1028.0	1036.10	101	1000.0	993.33	99	1025.51	103	P
Vanadium	501.0	521.90	104	1000.0	1003.36	100	1012.70	101	P
Zinc	1025.0	974.16	95	1100.0	1015.85	92	1003.06	91	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

AA CRDL Standard Source: HP0916320

ICP CRDL Standard Source: HP1004012

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Found	%R	Final Found	%R
Aluminum				200.0	207.89	103.9		
Antimony				10.0	11.24	112.4		
Arsenic				10.0	13.92	139.2		
Barium				200.0	185.16	92.6		
Beryllium				5.0	5.24	104.8		
Cadmium				5.0	4.81	96.2		
Calcium				5000.0	4769.83	95.4		
Chromium				10.0	9.75	97.5		
Cobalt				5.0	5.57	111.4		
Copper				5.0	4.84	96.8		
Iron				100.0	76.00	76.0		
Lead				3.0	3.49	116.3		
Magnesium				5000.0	4748.92	95.0		
Manganese				10.0	9.57	95.7		
Mercury	0.2	0.20	100.0					
Nickel				5.0	5.34	106.8		
Potassium				5000.0	4444.73	88.9		
Selenium				5.0	6.98	139.6		
Silver				5.0	4.96	99.2		
Sodium				5000.0	4397.91	88.0		
Thallium				10.0	13.25	132.5		
Vanadium				20.0	19.02	95.1		
Zinc				20.0	19.88	99.4		

Control Limits: no limits have been established by EPA at this time

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

AA CRDL Standard Source: HP0916320

ICP CRDL Standard Source: HP1004012

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Aluminum				200.0	212.44	106.2		
Antimony				10.0	10.84	108.4		
Arsenic				10.0	11.44	114.4		
Barium				200.0	183.93	92.0		
Beryllium				5.0	5.55	111.0		
Cadmium				5.0	4.55	91.0		
Calcium				5000.0	5036.08	100.7		
Chromium				10.0	9.45	94.5		
Cobalt				5.0	4.65	93.0		
Copper				5.0	5.73	114.6		
Iron				100.0	85.02	85.0		
Lead				3.0	3.60	120.0		
Magnesium				5000.0	4913.16	98.3		
Manganese				10.0	9.93	99.3		
Nickel				5.0	5.13	102.6		
Potassium				5000.0	4522.36	90.4		
Selenium				5.0	5.05	101.0		
Silver				5.0	4.07	81.4		
Sodium				5000.0	4455.67	89.1		
Thallium				10.0	9.80	98.0		
Vanadium				20.0	18.85	94.2		
Zinc				20.0	18.88	94.4		

Control Limits: no limits have been established by EPA at this time

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	200.0	U	41.0	B	200.0	U	200.0	U	3.067	B	P
Antimony	10.0	U	3.3	B	4.3	B	3.5	B	0.600	B	P
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	1.000	U	P
Barium	200.0	U	200.0	U	200.0	U	200.0	U	20.000	U	P
Beryllium	0.9	B	5.0	U	5.0	U	5.0	U	0.062	B	P
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Calcium	369.9	B	395.1	B	377.7	B	382.2	B	43.610	B	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	0.137	B	P
Cobalt	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Copper	5.0	U	5.0	U	5.0	U	5.0	U	0.100	B	P
Iron	100.0	U	17.7	B	100.0	U	100.0	U	10.000	U	P
Lead	3.0	U	3.0	U	3.0	U	3.0	U	0.300	U	P
Magnesium	5000.0	U	31.8	B	9.0	B	14.3	B	1.523	B	P
Manganese	0.3	B	0.2	B	10.0	U	0.3	B	0.062	B	P
Mercury	0.200	U	0.200	U	0.200	U	0.200	U	0.033	U	CV
Nickel	5.0	U	5.0	U	5.0	U	1.1	B	0.500	U	P
Potassium	-1439.0	B	-1424.1	B	-1436.6	B	-1431.3	B	-142.280	B	P
Selenium	5.0	U	5.0	U	5.0	U	5.0	U	0.500	U	P
Silver	5.0	U	5.0	U	5.0	U	5.0	U	0.048	B	P
Sodium	5000.0	U	5000.0	U	5000.0	U	5000.0	U	22.074	B	P
Thallium	10.0	U	10.0	U	4.1	B	5.1	B	1.000	U	P
Vanadium	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P
Zinc	20.0	U	20.0	U	20.0	U	20.0	U	2.000	U	P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	35.3	B	54.1	B			P
Antimony			3.9	B	3.3	B	2.5	B			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			200.0	U	200.0	U	200.0	U			P
Beryllium			5.0	U	0.8	B	1.2	B			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			377.5	B	380.7	B	382.5	B			P
Chromium			1.0	B	10.0	U	1.0	B			P
Cobalt			1.6	B	5.0	U	5.0	U			P
Copper			5.0	U	5.0	U	5.0	U			P
Iron			100.0	U	100.0	U	100.0	U			P
Lead			2.2	B	3.0	U	3.0	U			P
Magnesium			14.0	B	15.3	B	17.4	B			P
Manganese			0.3	B	0.4	B	0.5	B			P
Mercury			0.200	U	0.200	U					CV
Nickel			5.0	U	1.2	B	0.8	B			P
Potassium			-1423.6	B	-1425.7	B	-1423.2	B			P
Selenium			2.8	B	2.5	B	5.0	U			P
Silver			5.0	U	5.0	U	5.0	U			P
Sodium			5000.0	U	5000.0	U	5000.0	U			P
Thallium			3.2	B	3.7	B	5.2	B			P
Vanadium			20.0	U	20.0	U	20.0	U			P
Zinc			20.0	U	20.0	U	20.0	U			P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			31.8	B	34.9	B	200.0	U			P
Antimony			3.3	B	5.0	B	3.2	B			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			200.0	U	200.0	U	200.0	U			P
Beryllium			5.0	U	0.8	B	5.0	U			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			372.9	B	379.4	B	374.5	B			P
Chromium			1.1	B	2.0	B	1.0	B			P
Cobalt			1.6	B	5.0	U	5.0	U			P
Copper			5.0	U	5.0	U	5.0	U			P
Iron			100.0	U	27.6	B	100.0	U			P
Lead			3.0	U	3.0	U	3.0	U			P
Magnesium			5000.0	U	14.9	B	5000.0	U			P
Manganese			0.4	B	0.6	B	0.3	B			P
Nickel			5.0	U	1.3	B	5.0	U			P
Potassium			-1438.8	B	-1423.4	B	-1432.2	B			P
Selenium			5.0	U	5.0	U	2.2	B			P
Silver			5.0	U	5.0	U	5.0	U			P
Sodium			5000.0	U	5000.0	U	5000.0	U			P
Thallium			10.0	U	4.1	B	10.0	U			P
Vanadium			20.0	U	20.0	U	20.0	U			P
Zinc			20.0	U	20.0	U	20.0	U			P

SW846 - METALS

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum			200.0	U	200.0	U	38.7	B			P
Antimony			10.0	U	10.0	U	2.9	B			P
Arsenic			10.0	U	10.0	U	10.0	U			P
Barium			200.0	U	200.0	U	200.0	U			P
Beryllium			5.0	U	5.0	U	1.1	B			P
Cadmium			5.0	U	5.0	U	5.0	U			P
Calcium			376.5	B	379.7	B	369.6	B			P
Chromium			10.0	U	1.2	B	10.0	U			P
Cobalt			5.0	U	5.0	U	5.0	U			P
Copper			5.0	U	5.0	U	5.0	U			P
Iron			100.0	U	14.4	B	100.0	U			P
Lead			3.0	U	3.0	U	3.0	U			P
Magnesium			5000.0	U	9.0	B	5000.0	U			P
Manganese			0.3	B	0.4	B	0.3	B			P
Nickel			5.0	U	0.7	B	5.0	U			P
Potassium			-1426.6	B	-1430.3	B	-1432.6	B			P
Selenium			5.0	U	5.0	U	5.0	U			P
Silver			5.0	U	5.0	U	5.0	U			P
Sodium			5000.0	U	5000.0	U	5000.0	U			P
Thallium			3.3	B	10.0	U	3.9	B			P
Vanadium			20.0	U	20.0	U	20.0	U			P
Zinc			20.0	U	20.0	U	20.0	U			P

3

BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Aluminum	37.7	B	200.0	U	45.3	B					P
Antimony	10.0	U	10.0	U	10.0	U					P
Arsenic	10.0	U	10.0	U	10.0	U					P
Barium	200.0	U	200.0	U	200.0	U					P
Beryllium	5.0	U	5.0	U	0.9	B					P
Cadmium	5.0	U	5.0	U	5.0	U					P
Calcium	410.2	B	385.4	B	389.1	B					P
Chromium	10.0	U	10.0	U	10.0	U					P
Cobalt	5.0	U	5.0	U	5.0	U					P
Copper	5.0	U	5.0	U	5.0	U					P
Iron	23.0	B	100.0	U	100.0	U					P
Lead	3.0	U	3.0	U	3.0	U					P
Magnesium	38.5	B	12.9	B	18.8	B					P
Manganese	10.0	U	10.0	U	10.0	U					P
Nickel	5.0	U	5.0	U	5.0	U					P
Potassium	-1441.3	B	-1429.3	B	-1432.3	B					P
Selenium	5.0	U	5.0	U	5.0	U					P
Silver	5.0	U	5.0	U	5.0	U					P
Sodium	5000.0	U	5000.0	U	5000.0	U					P
Thallium	10.0	U	10.0	U	10.0	U					P
Vanadium	20.0	U	20.0	U	20.0	U					P
Zinc	20.0	U	20.0	U	20.0	U					P

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	244100	241100	235000	235000	97.5			
Antimony	0	589	3.3	601	102.0			
Arsenic	0	101	-0.77	105	104.0			
Barium	0	495	2.5	490	99.0			
Beryllium	0	475	1.1	484	101.9			
Cadmium	0	940	7.6	931	99.0			
Calcium	234900	231100	245000	244000	105.6			
Chromium	43	511	41.9	504	98.6			
Cobalt	0	461	-0.11	475	103.0			
Copper	23	548	22.9	521	95.1			
Iron	95600	94800	93800	93700	98.8			
Lead	10	61	4.8	53.9	88.4			
Magnesium	247500	251100	254000	252000	100.4			
Manganese	19	502	18.6	500	99.6			
Nickel	21	984	20.8	958	97.4			
Potassium	0	0	-1440	-1430				
Selenium	0	53	1.5	49.5	93.4			
Silver	0	206	0.034	200	97.1			
Sodium	0	0	817	873				
Thallium	0	103	11.1	111	107.8			
Vanadium	0	494	-3.9	481	97.4			
Zinc	28	1028	31.5	919	89.4			

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

ICP ID Number: P4 ICS Source: EPA-503-203

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Aluminum	244100	241100	232000	233000	96.6			
Antimony	0	589	-0.41	600	101.9			
Arsenic	0	101	0.33	99.0	98.0			
Barium	0	495	2.5	475	96.0			
Beryllium	0	475	0.77	498	104.8			
Cadmium	0	940	6.8	925	98.4			
Calcium	234900	231100	266000	265000	114.7			
Chromium	43	511	41.9	507	99.2			
Cobalt	0	461	0.27	488	105.9			
Copper	23	548	23.5	524	95.6			
Iron	95600	94800	97500	96700	102.0			
Lead	10	61	7.3	54.0	88.5			
Magnesium	247500	251100	260000	258000	102.7			
Manganese	19	502	19.2	517	103.0			
Nickel	21	984	21.0	957	97.3			
Potassium	0	0	-1430	-1440				
Selenium	0	53	-0.35	48.6	91.7			
Silver	0	206	-0.022	197	95.6			
Sodium	0	0	814	732				
Thallium	0	103	9.5	103	100.0			
Vanadium	0	494	-2.9	494	100.0			
Zinc	28	1028	31.1	909	88.4			

SW846 - METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SS73-0-1S

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	38.8111		1.2018		52.14	72	N	P
Arsenic	75 - 125	4.3228		0.8061	B	4.17	84		P
Barium	75 - 125	211.9962		13.1886	B	208.55	95		P
Beryllium	75 - 125	5.1313		0.1655	B	5.21	95		P
Cadmium	75 - 125	4.9359		0.1370	B	5.21	92		P
Chromium	75 - 125	24.0501		3.8240		20.86	97		P
Cobalt	75 - 125	49.4507		0.3951	B	52.14	94		P
Copper	75 - 125	26.9284		0.7194		26.07	101		P
Lead	75 - 125	8.6532		6.8337		2.09	87		P
Manganese	75 - 125	60.6466		12.0693		52.14	93		P
Mercury	75 - 125	0.2068		0.0268	B	0.17	105.9		CV
Nickel	75 - 125	49.3749		1.5028		52.14	92		P
Selenium	75 - 125	1.0056		0.5214	U	1.04	97		P
Silver	75 - 125	4.7211		0.5214	U	5.21	91		P
Thallium	75 - 125	3.8935		1.0428	U	5.21	75		P
Vanadium	75 - 125	56.5466		5.4493		52.14	98		P
Zinc	75 - 125	52.1877		4.9202		52.14	91		P

Comments:

SW846 - METALS

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SS73-0-1SD

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75 - 125	38.0926		1.2018		52.14	71	N	P
Arsenic	75 - 125	4.5272		0.8061	B	4.17	89		P
Barium	75 - 125	215.9465		13.1886	B	208.55	97		P
Beryllium	75 - 125	5.0432		0.1655	B	5.21	94		P
Cadmium	75 - 125	4.7291		0.1370	B	5.21	88		P
Chromium	75 - 125	22.8744		3.8240		20.86	91		P
Cobalt	75 - 125	47.6995		0.3951	B	52.14	91		P
Copper	75 - 125	27.6074		0.7194		26.07	103		P
Lead		9.8777		6.8337		2.09	146	N	P
Manganese	75 - 125	59.1811		12.0693		52.14	90		P
Mercury	75 - 125	0.2225		0.0268	B	0.17	115.1		CV
Nickel	75 - 125	47.7836		1.5028		52.14	89		P
Selenium	75 - 125	1.1258		0.5214	U	1.04	108		P
Silver	75 - 125	4.4676		0.5214	U	5.21	86		P
Thallium	75 - 125	4.0501		1.0428	U	5.21	78		P
Vanadium	75 - 125	53.9873		5.4493		52.14	93		P
Zinc	75 - 125	49.2461		4.9202		52.14	85		P

Comments:

SW846 - METALS

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

SS73-0-1A

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Antimony		123.33		11.53		120.0	93		P
Lead		68.96		65.54		6.0	57		P

Comments:

6

DUPLICATES

SAMPLE NO.

SS73-0-1D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.9 % Solids for Duplicate: 95.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		4951.9160		4909.7220		0.9		P
Antimony	1.0	1.2018		1.4148		16.3		P
Arsenic		0.8061	B	0.7447	B	7.9		P
Barium		13.1886	B	13.5535	B	2.7		P
Beryllium		0.1655	B	0.1781	B	7.3		P
Cadmium		0.1370	B	0.1123	B	19.8		P
Calcium		418.3992	B	409.2567	B	2.2		P
Chromium	1.0	3.8240		4.2175		9.8		P
Cobalt		0.3951	B	0.5214	U	200.0		P
Copper	0.5	0.7194		1.0030		32.9		P
Iron		1464.6100		2030.9150		32.4	*	P
Lead		6.8337		6.9007		1.0		P
Magnesium		180.7061	B	178.2738	B	1.4		P
Manganese		12.0693		12.0061		0.5		P
Mercury	0.0	0.0268	B	0.0395		38.3		CV
Nickel	0.5	1.5028		1.5704		4.4		P
Potassium		521.3765	U	521.3765	U			P
Selenium		0.5214	U	0.3437	B	200.0		P
Silver		0.5214	U	0.5214	U			P
Sodium		64.4448	B	65.2295	B	1.2		P
Thallium		1.0428	U	1.0428	U			P
Vanadium	2.1	5.4493		5.9959		9.6		P
Zinc	2.1	4.9202		4.7949		2.6		P

7

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Solid LCS Source: ERA-540

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum				7590.0	7955.09		4390.0	10800.0	105
Antimony				77.5	78.62		0.1	173.0	101
Arsenic				80.9	72.94		64.5	97.3	90
Barium				156.0	146.84		128.0	184.0	94
Beryllium				143.0	129.89		117.0	169.0	91
Cadmium				233.0	203.74		188.0	277.0	87
Calcium				4320.0	3791.70		3420.0	5220.0	88
Chromium				60.8	60.53		47.7	73.8	100
Cobalt				68.6	62.38		56.1	81.1	91
Copper				131.0	137.72		108.0	154.0	105
Iron				14400.0	15844.35		7420.0	21400.0	110
Lead				76.8	65.50		61.9	91.8	85
Magnesium				2220.0	2010.56		1710.0	2730.0	91
Manganese				304.0	286.80		243.0	365.0	94
Mercury				3.6	3.8		2.5	4.8	106
Nickel				49.6	45.18		40.4	58.8	91
Potassium				2380.0	2680.94		1700.0	3060.0	113
Selenium				82.9	68.56		62.6	103.0	83
Silver				80.0	80.35		49.0	111.0	100
Sodium				456.0	408.58	B	254.0	658.0	90
Thallium				158.0	144.37		119.0	197.0	91
Vanadium				72.4	73.93		51.7	93.0	102
Zinc				116.0	103.73		90.5	141.0	89

9
ICP SERIAL DILUTIONS

SAMPLE NO.

SS73-0-1L

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	47488.87		51111.10				P
Antimony	11.53		50.00	U			P
Arsenic	7.73	B	50.00	U	100.0		P
Barium	126.48	B	132.61	B	4.8		P
Beryllium	1.59	B	4.97	B	212.6		P
Cadmium	1.31	B	25.00	U	100.0		P
Calcium	4012.45	B	5772.13	B	43.9		P
Chromium	36.67		34.47	B			P
Cobalt	3.79	B	25.00	U	100.0		P
Copper	6.90		5.90	B			P
Iron	14045.61		15244.00				P
Lead	65.54		72.74				P
Magnesium	1732.97	B	2011.34	B	16.1	E	P
Manganese	115.74		124.97				P
Mercury	0.15	B	1.00	U	100.0		CV
Nickel	14.41		14.24	B			P
Potassium	5000.00	U	25000.00	U			P
Selenium	5.00	U	25.00	U			P
Silver	5.00	U	25.00	U			P
Sodium	618.03	B	25000.00	U	100.0		P
Thallium	10.00	U	50.00	U			P
Vanadium	52.26		56.56	B			P
Zinc	47.19		49.42	B			P

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	5/27/2010	1.00	100.0
PBS	5/27/2010	1.00	100.0
SB61-6-7	5/27/2010	1.05	100.0
SB61D-6-7	5/27/2010	1.02	100.0
SB63-5.5-6.5	5/27/2010	1.00	100.0
SB72-2-3	5/27/2010	1.01	100.0
SB74-4-5	5/27/2010	1.00	100.0
SB75-3.5-4.5	5/27/2010	1.04	100.0
SB76-6-7	5/27/2010	1.03	100.0
SB87-3-4	5/27/2010	1.05	100.0
SB88-2.5-3.5	5/27/2010	1.04	100.0
SS61-0-1	5/27/2010	1.02	100.0
SS61D-0-1	5/27/2010	1.00	100.0
SS63-0-1	5/27/2010	1.00	100.0
SS67-0-1	5/27/2010	1.00	100.0
SS68-0-1	5/27/2010	1.01	100.0
SS72-0-1	5/27/2010	1.03	100.0
SS73-0-1	5/27/2010	1.00	100.0
SS73-0-1D	5/27/2010	1.00	100.0
SS73-0-1S	5/27/2010	1.00	100.0
SS73-0-1SD	5/27/2010	1.00	100.0
SS75-0-1	5/27/2010	1.04	100.0
SS76-0-1	5/27/2010	1.01	100.0
SS87-0-1	5/27/2010	1.08	100.0
SS88-0-1	5/27/2010	1.00	100.0

13

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	5/27/2010	0.20	100.0
PBS	5/27/2010	0.60	100.0
SB61-6-7	5/27/2010	0.63	100.0
SB61D-6-7	5/27/2010	0.65	100.0
SB63-5.5-6.5	5/27/2010	0.61	100.0
SB72-2-3	5/27/2010	0.61	100.0
SB74-4-5	5/27/2010	0.60	100.0
SB75-3.5-4.5	5/27/2010	0.62	100.0
SB76-6-7	5/27/2010	0.63	100.0
SB87-3-4	5/27/2010	0.60	100.0
SB88-2.5-3.5	5/27/2010	0.61	100.0
SS61-0-1	5/27/2010	0.60	100.0
SS61D-0-1	5/27/2010	0.61	100.0
SS63-0-1	5/27/2010	0.60	100.0
SS67-0-1	5/27/2010	0.62	100.0
SS68-0-1	5/27/2010	0.67	100.0
SS72-0-1	5/27/2010	0.60	100.0
SS73-0-1	5/27/2010	0.60	100.0
SS73-0-1D	5/27/2010	0.60	100.0
SS73-0-1S	5/27/2010	0.60	100.0
SS73-0-1SD	5/27/2010	0.60	100.0
SS75-0-1	5/27/2010	0.60	100.0
SS76-0-1	5/27/2010	0.64	100.0
SS87-0-1	5/27/2010	0.61	100.0
SS88-0-1	5/27/2010	0.67	100.0

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Instrument ID Number: P4 Method: P

Start Date: 6/11/2010 End Date: 6/12/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.00	0930		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.00	0937							X		X		X		X				X		X	X		X		X			
S	1.00	0944		X						X						X				X			X						
S	1.00	0950				X	X	X				X		X			X								X				
S	1.00	0956			X																								
ICV	1.00	1002		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.00	1009		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1016																												
ICSA	1.00	1023		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.00	1030		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.00	1037		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1044		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LRS	1.00	1055		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1102																												
ZZZZZZ	1.00	1109																												
ZZZZZZ	1.00	1116																												
ZZZZZZ	1.00	1123																												
ZZZZZZ	1.00	1131																												
ZZZZZZ	1.00	1138																												
ZZZZZZ	5.00	1145																												
ZZZZZZ	1.00	1152																												
ZZZZZZ	1.00	1159																												
CCV	1.00	1206		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1213		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1221																												
ZZZZZZ	1.00	1231																												
ZZZZZZ	1.00	1238																												
ZZZZZZ	1.00	1246																												
CCV	1.00	1253		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1300		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1311																												
ZZZZZZ	1.00	1319																												
ZZZZZZ	1.00	1326																												
ZZZZZZ	1.00	1333																												
ZZZZZZ	1.00	1340																												
ZZZZZZ	1.00	1347																												
ZZZZZZ	5.00	1354																												
ZZZZZZ	1.00	1401																												

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Instrument ID Number: P4 Method: P

Start Date: 6/11/2010 End Date: 6/12/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	1409																										
CCV	1.00	1416		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1423		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1430																										
ZZZZZZ	1.00	1437																										
ZZZZZZ	1.00	1444																										
ZZZZZZ	1.00	1451																										
ZZZZZZ	1.00	1459																										
ZZZZZZ	1.00	1506																										
ZZZZZZ	1.00	1513																										
ZZZZZZ	1.00	1520																										
ZZZZZZ	1.00	1527																										
ZZZZZZ	1.00	1534																										
CCV	1.00	1541		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1549		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1556																										
ZZZZZZ	1.00	1603																										
ZZZZZZ	1.00	1610																										
ZZZZZZ	1.00	1617																										
ZZZZZZ	1.00	1624																										
ZZZZZZ	1.00	1631																										
ZZZZZZ	1.00	1639																										
ZZZZZZ	1.00	1649																										
ZZZZZZ	1.00	1657																										
LCSS	1.00	1704		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1711		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1718		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS73-0-1	1.00	1725		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS73-0-1D	1.00	1732		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS73-0-1S	1.00	1739			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
SS73-0-1SD	1.00	1747			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
ZZZZZZ	5.00	1754																										
SS73-0-1A	1.00	1801			X										X													
SB74-4-5	1.00	1808		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS75-0-1	1.00	1815		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB75-3.5-4.5	1.00	1822		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS63-0-1	1.00	1829		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1837		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Instrument ID Number: P4 Method: P

Start Date: 6/11/2010 End Date: 6/12/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	1844		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB63-5.5-6.5	1.00	1851		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS61-0-1	1.00	1858		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS61D-0-1	1.00	1905		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB61-6-7	1.00	1912		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB61D-6-7	1.00	1919		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS67-0-1	1.00	1929		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS72-0-1	1.00	1936		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB72-2-3	1.00	1944		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS88-0-1	1.00	1951		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB88-2.5-3.5	1.00	1958		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	2005		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	2012		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS76-0-1	1.00	2019		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB76-6-7	1.00	2026		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS87-0-1	1.00	2034		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SB87-3-4	1.00	2041		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SS68-0-1	1.00	2048		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	2055																									
ZZZZZZ	1.00	2102																									
ZZZZZZ	1.00	2109																									
ZZZZZZ	1.00	2116																									
ZZZZZZ	1.00	2124																									
CCV	1.00	2131		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	2138		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	2145																									
ZZZZZZ	5.00	2152																									
ZZZZZZ	1.00	2159																									
ZZZZZZ	1.00	2206																									
ZZZZZZ	1.00	2214																									
ZZZZZZ	1.00	2221																									
ZZZZZZ	1.00	2228																									
ZZZZZZ	1.00	2235																									
ZZZZZZ	1.00	2242																									
ZZZZZZ	1.00	2249																									
CCV	1.00	2256		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	2304		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	2311																									

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Instrument ID Number: P4 Method: P

Start Date: 6/11/2010 End Date: 6/12/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	2318																										
ZZZZZZ	1.00	2325																										
ZZZZZZ	1.00	2332																										
ZZZZZZ	1.00	2339																										
ZZZZZZ	1.00	2347																										
ZZZZZZ	1.00	2354																										
ZZZZZZ	1.00	0001																										
ZZZZZZ	1.00	0008																										
ZZZZZZ	1.00	0015																										
CCV	1.00	0022		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	0029		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBS	1.00	0037		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	0044																										
ZZZZZZ	1.00	0051																										
ZZZZZZ	1.00	0058																										
ZZZZZZ	1.00	0105																										
ZZZZZZ	1.00	0112																										
ZZZZZZ	1.00	0119																										
ZZZZZZ	5.00	0127																										
ZZZZZZ	1.00	0134																										
ZZZZZZ	1.00	0141																										
CCV	1.00	0148		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	0155		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Instrument ID Number: P4 Method: P

Start Date: 6/12/2010 End Date: 6/12/2010

EPA Sample No.	D/F	Time	% R	Analytes																										
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN			
S0	1.00	1050		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S	1.00	1057							X		X		X		X				X		X	X		X		X			
S	1.00	1104		X						X						X				X			X						
S	1.00	1110				X	X	X				X		X			X								X				
S	1.00	1116			X																								
ICV	1.00	1122		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB	1.00	1129		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1136																												
ICSA	1.00	1143		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSAB	1.00	1150		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV	1.00	1157		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1205		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LRS	1.00	1214		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
SS73-0-1L	5.00	1221		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.00	1228																												
ZZZZZZ	1.00	1235																												
ZZZZZZ	1.00	1242																												
ZZZZZZ	1.00	1250																												
ZZZZZZ	1.00	1257																												
ZZZZZZ	1.00	1304																												
ZZZZZZ	5.00	1311																												
ZZZZZZ	1.00	1318																												
CCV	1.00	1325		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB	1.00	1332		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Instrument ID Number: V4 Method: CV

Start Date: 5/28/2010 End Date: 5/28/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1038																X								
S0.2	1.00	1040																X								
S0.5	1.00	1042																X								
S1	1.00	1044																X								
S5	1.00	1046																X								
S10	1.00	1048																X								
ICV	1.00	1050																X								
ICB	1.00	1052																X								
CRA	1.00	1054																X								
CCV	1.00	1056																X								
CCB	1.00	1058																X								
ZZZZZZ	1.00	1059																								
ZZZZZZ	1.00	1101																								
ZZZZZZ	1.00	1103																								
ZZZZZZ	1.00	1105																								
ZZZZZZ	1.00	1107																								
ZZZZZZ	1.00	1109																								
ZZZZZZ	1.00	1111																								
ZZZZZZ	1.00	1113																								
ZZZZZZ	1.00	1115																								
ZZZZZZ	1.00	1117																								
CCV	1.00	1119																X								
CCB	1.00	1121																X								
ZZZZZZ	1.00	1123																								
PBS	1.00	1125																X								
LCSS	1.00	1127																X								
SS73-0-1	1.00	1129																X								
SS73-0-1D	1.00	1131																X								
SS73-0-1S	1.00	1133																X								
SS73-0-1SD	1.00	1135																X								
SS73-0-1L	5.00	1137																X								
SB74-4-5	1.00	1139																X								
SS75-0-1	1.00	1141																X								
CCV	1.00	1143																X								
CCB	1.00	1145																X								
SB75-3.5-4.5	1.00	1147																X								
SS63-0-1	1.00	1149																X								
SB63-5.5-6.5	1.00	1151																X								

SW846 - METALS

14

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

Instrument ID Number: V4 Method: CV

Start Date: 5/28/2010 End Date: 5/28/2010

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SS61-0-1	1.00	1153																X								
SS61D-0-1	1.00	1155																X								
SB61-6-7	1.00	1157																X								
SB61D-6-7	1.00	1159																X								
SS67-0-1	1.00	1200																X								
SS72-0-1	1.00	1203																X								
SB72-2-3	1.00	1205																X								
CCV	1.00	1207																X								
CCB	1.00	1209																X								
SS88-0-1	1.00	1210																X								
SB88-2.5-3.5	1.00	1212																X								
SS76-0-1	1.00	1214																X								
SB76-6-7	1.00	1216																X								
SS87-0-1	1.00	1218																X								
SB87-3-4	1.00	1220																X								
SS68-0-1	1.00	1222																X								
ZZZZZZ	1.00	1224																								
ZZZZZZ	1.00	1226																								
ZZZZZZ	1.00	1228																								
CCV	1.00	1229																X								
CCB	1.00	1231																X								

3. Quarterly Verification of Instrument Performance

a. Instrument Detection Limits (Quarterly)
[Form X - IN]

b. ICP Interelement Correction Factors (Annually)
[Form XI (Part 1) - IN]

c. ICP Interelement Correction Factors (Annually)
[Form XI (Part 2) - IN]

d. ICP Linear Ranges (Quarterly)
[Form XII - IN]

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

ICP ID Number: _____ Date: 4/10/2010

Flame AA ID Number: V4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL ug/L	MDL ug/L	M
Mercury	253.70		0.20	0.091	CV

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

ICP ID Number: P4 Date: 4/15/2010

Flame AA ID Number: _____

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL ug/L	MDL ug/L	M
Aluminum	308.22		200	31.0	P
Antimony	206.84		10	2.0	P
Arsenic	189.04		10	2.5	P
Barium	493.41		200	15.2	P
Beryllium	313.04		5	0.73	P
Cadmium	226.50		5.0	0.64	P
Calcium	317.93		5000	122	P
Chromium	267.72		10	0.75	P
Cobalt	228.62		5	1.5	P
Copper	324.70		5	1.0	P
Iron	271.44		100	12.2	P
Lead	220.35		3	1.6	P
Magnesium	279.08		5000	7.8	P
Manganese	257.61		10	0.17	P
Nickel	231.60		5	0.63	P
Potassium	766.49		5000	30.9	P
Selenium	196.03		5	2.1	P
Silver	328.07		5	0.64	P
Sodium	330.23		5000	156	P
Thallium	190.86		10	3.0	P
Vanadium	292.40		20	1.5	P
Zinc	206.20		20	4.2	P

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

ICP ID Number: _____ Date: 4/10/2010

Flame AA ID Number: V4

Furnace AA ID Number: _____

Analyte	Wave-length (nm)	Back-ground	CRQL mg/Kg	MDL mg/Kg	M
Mercury	253.70		0.03	0.0070	CV

Comments: _____

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

ICP ID Number: P4 Date: 4/15/2010

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRQL mg/Kg	MDL mg/Kg	M
Aluminum	308.22		20.00	0.26	P
Antimony	206.84		1.00	0.26	P
Arsenic	189.04		1.00	0.42	P
Barium	493.41		20.00	0.07	P
Beryllium	313.04		0.50	0.03	P
Cadmium	226.50		0.50	0.06	P
Calcium	317.93		500.00	0.35	P
Chromium	267.72		1.00	0.12	P
Cobalt	228.62		0.50	0.24	P
Copper	324.70		0.50	0.07	P
Iron	271.44		10.00	4.10	P
Lead	220.35		0.30	0.19	P
Magnesium	279.08		500.00	0.76	P
Manganese	257.61		1.00	0.02	P
Nickel	231.60		0.50	0.11	P
Potassium	766.49		500.00	1.90	P
Selenium	196.03		0.50	0.23	P
Silver	328.07		0.50	0.04	P
Sodium	330.23		500.00	16.90	P
Thallium	190.86		1.00	0.18	P
Vanadium	292.40		2.00	0.07	P
Zinc	206.20		2.00	0.65	P

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000430	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000560	0.0000000	0.0000840	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0001550	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000390	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.000904	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0001440	0.0000000	0.0000000
Lead	220.35	-0.0001560	0.0000000	0.0000000	0.0000000	-0.0004960
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000270	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0004680	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0007960	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	-0.0002910	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments: _____

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0052730	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0003220	0.0000000	0.0000000	-0.000280	0.0000000
Cobalt	228.62	0.0000000	0.0001680	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0703370
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0003730
Lead	220.35	0.0000000	0.0000000	-0.0002140	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0005150	0.0000000	0.0000000	0.0000000	-0.0012010
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0003910	0.0000000	-0.0007140	-0.000134	0.0004890
Selenium	196.02	0.0000000	0.0000000	0.0001610	0.0000930	-0.0008840
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	Mn	Mo	Ni
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0021050	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	-0.0030670	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0001080	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	-0.0001310	0.0000000	0.0000000
Calcium	317.93	0.0000000	0.0068740	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0028440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0001690	-0.0000920	0.0000000	-0.000603	0.0002400
Lead	220.35	0.0000000	0.0000000	0.0001170	-0.001218	0.0001630
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0002310	-0.0001110	0.0000000	0.0000000	-0.0001570
Selenium	196.02	0.0000000	0.0000000	0.0004510	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0007390	0.0000000	0.0000000
Vanadium	292.40	-0.0016760	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	-0.0011640	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Pb	Sb	Se	Sn	Tl
Aluminum	308.21	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.84	0.0000000	0.0000000	0.0000000	-0.004391	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	-0.0000500	-0.0001990	-0.0000650	-0.000243	-0.0000490
Calcium	317.93	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.70	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.000264	0.0003640
Lead	220.35	0.0000000	-0.0001490	0.0000000	-0.000187	-0.0011190
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0002150	-0.0005640	0.0000000	-0.000481	-0.0003860
Selenium	196.02	0.0000000	0.0000000	0.0000000	0.0001400	-0.0004280
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ SAS No.: _____ SDG No.: 1005133

ICP ID Number: P4 Date: 4/15/2010

Analyte	Wave-length (nm)	Interelement Correction Factors for: V	Zn			
Aluminum	308.21	0.0168710	0.0000000			
Antimony	206.84	-0.0021410	0.0000000			
Arsenic	189.04	0.0000000	0.0000000			
Barium	493.41	0.0000000	0.0000000			
Beryllium	313.04	0.0052620	0.0000000			
Cadmium	226.50	0.0000000	-0.0000580			
Calcium	317.93	0.0000000	0.0000000			
Chromium	267.72	-0.0003410	0.0000000			
Cobalt	228.62	0.0000000	0.0000000			
Copper	324.70	0.0000000	0.0000000			
Iron	271.44	0.0249430	0.0000000			
Lead	220.35	0.0000000	0.0000000			
Lead	220.35	-0.0001610	0.0000000			
Magnesium	279.08	0.0000000	0.0000000			
Manganese	257.61	0.0000000	0.0000000			
Nickel	231.60	0.0000000	0.0000000			
Potassium	766.49	0.0000000	0.0000000			
Selenium	196.02	0.0003030	-0.0001740			
Selenium	196.02	0.0000000	0.0000000			
Silver	328.07	0.0000000	0.0000000			
Sodium	330.23	0.0000000	0.0376950			
Thallium	190.86	-0.0004340	0.0000000			
Vanadium	292.40	0.0000000	0.0000000			
Zinc	206.20	0.0000000	0.0000000			

Comments: _____

SW846 - METALS

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: SAS No.: SDG No.: 1005133

ICP ID Number: P4 Date: 4/15/2010

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	15.00	400000.0	P
Antimony	15.00	40000.0	P
Arsenic	15.00	20000.0	P
Barium	15.00	50000.0	P
Beryllium	15.00	5000.0	P
Cadmium	15.00	10000.0	P
Calcium	15.00	700000.0	P
Chromium	15.00	60000.0	P
Cobalt	15.00	50000.0	P
Copper	15.00	30000.0	P
Iron	15.00	700000.0	P
Lead	15.00	60000.0	P
Magnesium	15.00	300000.0	P
Manganese	15.00	50000.0	P
Nickel	15.00	60000.0	P
Potassium	15.00	100000.0	P
Selenium	15.00	40000.0	P
Silver	15.00	1000.0	P
Sodium	15.00	700000.0	P
Thallium	15.00	60000.0	P
Vanadium	15.00	50000.0	P
Zinc	15.00	60000.0	P

Comments:

4. Raw Data

For each reported value, the laboratory shall include in the data package all raw data used to obtain that value. This applies to all required QA/QC measurements, instrument standardization, as well as all sample analysis results. This does not apply to the Quarterly Verification of Instrument Parameters submitted as a part of each data package.

The order of the raw data in the data package shall be: ICP, Flame AA (if used), Furnace AA (if used), mercury, and cyanide (if a target analyte).

Raw data shall be labeled using EPA sample number convention in order to identify:

- calibration standards, including source and preparation date
- initial and continuing calibration blanks and preparation blanks
- initial and continuing calibration verification standards, interference check samples, ICP serial dilution samples, CRDL standard for ICP and AA (if used), Laboratory Control Sample, and post digestion spike
- diluted and undiluted samples (by client ID number) and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes
- instrument used, including all data voided or data not used and a brief written explanation
- all information for furnace analysis (if used)
- date and time of each analysis (instrument run logs can be submitted if they contain this information
- integration time for AA analyses (if used)

Daily Instrument Profile
Nebulizer pressure: 32
Peak position: -0.013052
Peak intensity: 1029.25
Vernier position: 450

Maintenance: NONE

Printed: 6/14/2010 10:47:14 AM

Method(s) (circle one): ILM04.1 ILM05.4 (6010B) 200.7 Other _____

Operator(s): JKL **Date/Time** 061110/0930 to 061210/0425

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1005064	W	TAL Complete
1005078	W	TAL
1005132	S	TAL
1005133	S	TAL
1005157	S	TAL
1005177	S	Sn

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
CAL1	S0 BLANK	CALIB STD	1	06/11/10	09:30:14		
CAL2	S RSTD-1	CALIB STD	1	06/11/10	09:37:23		
CAL4	S RSTD-3	CALIB STD	1	06/11/10	09:44:32		
CAL3	S RSTD-2	CALIB STD	1	06/11/10	09:50:08		
CAL5	S RSTD-4	CALIB STD	1	06/11/10	09:56:31		
ICV1	ICV1	ICV	1	06/11/10	10:02:07		
ICB1	ICB	ICB	1	06/11/10	10:09:15		
CRL1	CRI	CRI	1	06/11/10	10:16:24		
IFA1	ICSA	ICS	1	06/11/10	10:23:32		
IFB1	ICSAB	ICS	1	06/11/10	10:30:41		
CCV1	CCV	CCV	1	06/11/10	10:37:49		
CCB1	CCB	CCB	1	06/11/10	10:44:59		
LRS	LRS	LRS	1	06/11/10	10:55:21		
1005064-14	SDZ-WN03	SAMPLE	15	06/11/10	11:02:29	1005064	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob Munson Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005064-15	SDZ-WN30	SAMPLE	15	06/11/10	11:09:38	1005064	
1005064-17	SDZ-WN10	SAMPLE	15	06/11/10	11:16:46	1005064	
1005064-20	SDZ-WN18	SAMPLE	15	06/11/10	11:23:54	1005064	
1005078-01	SDZ-SW03	SAMPLE	15	06/11/10	11:31:02	1005078	
0051443-DUP1	SDZ-SW03D	SAMPLE	15	06/11/10	11:38:10	1005078	
SRD1	SDZ-SW03L	SAMPLE	75	06/11/10	11:45:18	1005078	
1005078-02	SDZ-WN12	SAMPLE	15	06/11/10	11:52:26	1005078	
1005078-03	SDZ-WN15	SAMPLE	15	06/11/10	11:59:35	1005078	Na↑ 20X
CCV2	CCV	CCV	1	06/11/10	12:06:43		
CCB2	CCB	CCB	1	06/11/10	12:13:53		
1005078-04	SDZ-WN13	SAMPLE	15	06/11/10	12:21:02	1005078	
1005078-07	SDZ-WN14	SAMPLE	15	06/11/10	12:31:06	1005078	
1005078-08	SDZ-WN11	SAMPLE	15	06/11/10	12:38:14	1005078	
1005078-03	SDZ-WN15	SAMPLE	20	06/11/10	12:46:27	1005078	
CCV3	CCV	CCV	1	06/11/10	12:53:36		
CCB3	CCB	CCB	1	06/11/10	13:00:45		
0052619-BLK1	PBS	PBS	1	06/11/10	13:11:58	1005132	
0052619-BS1	LCSS	LCS	1	06/11/10	13:19:06	1005132	
1005132-01	SB85-1.5-2.5	SAMPLE	1	06/11/10	13:26:14	1005132	
0052619-DUP1	SB85-1.5-2.5D	SAMPLE	1	06/11/10	13:33:22	1005132	
0052619-MS1	SB85-1.5-2.5S	SAMPLE	1	06/11/10	13:40:30	1005132	
0052619-MSD1	SB85-1.5-2.5SD	SAMPLE	1	06/11/10	13:47:39	1005132	
SRD2	SB85-1.5-2.5L	SAMPLE	5	06/11/10	13:54:47	1005132	
0052619-PS1	SB85-1.5-2.5A	SAMPLE	1	06/11/10	14:01:55	1005132	
1005132-02	SB78-3.5-4.5	SAMPLE	1	06/11/10	14:09:03	1005132	
CCV4	CCV	CCV	1	06/11/10	14:16:12		
CCB4	CCB	CCB	1	06/11/10	14:23:22		
1005132-03	SB77-0-1	SAMPLE	1	06/11/10	14:30:31	1005132	
1005132-04	SB77-3.5-4.5	SAMPLE	1	06/11/10	14:37:39	1005132	
1005132-05	SB79-0-1	SAMPLE	1	06/11/10	14:44:47	1005132	
1005132-06	SB79-11-12	SAMPLE	1	06/11/10	14:51:56	1005132	
1005132-07	SB83-0-1	SAMPLE	1	06/11/10	14:59:04	1005132	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob Meiera Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005132-08	SB83-6.5-7.5	SAMPLE	1	06/11/10	15:06:13	1005132	
1005132-09	SB62-0-1	SAMPLE	1	06/11/10	15:13:22	1005132	
1005132-10	SB74-0-1	SAMPLE	1	06/11/10	15:20:30	1005132	
1005132-11	SB86-0-1	SAMPLE	1	06/11/10	15:27:38	1005132	
1005132-12	SB86-3-4	SAMPLE	1	06/11/10	15:34:47	1005132	
CCV5	CCV	CCV	1	06/11/10	15:41:56		
CCB5	CCB	CCB	1	06/11/10	15:49:06		
1005132-13	SB86-0-1	SAMPLE	1	06/11/10	15:56:14	1005132	
1005132-14	SB86-6-7	SAMPLE	1	06/11/10	16:03:22	1005132	
1005132-15	SB81-0-1	SAMPLE	1	06/11/10	16:10:31	1005132	
1005132-16	SB81-5-6	SAMPLE	1	06/11/10	16:17:39	1005132	
1005132-17	SB71-0-1	SAMPLE	1	06/11/10	16:24:47	1005132	
1005132-18	SB71D-0-1	SAMPLE	1	06/11/10	16:31:55	1005132	
1005132-19	SB71-4-5	SAMPLE	1	06/11/10	16:39:03	1005132	
1005132-20	SB71D-4-5	SAMPLE	1	06/11/10	16:49:52	1005132	
0052615-BLK1	PBS	PBS	1	06/11/10	16:57:00	1005133	Pb, Sb ↑ RR
0052615-BS1	LCSS	LCS	1	06/11/10	17:04:09	1005133	
CCV6	CCV	CCV	1	06/11/10	17:11:18		
CCB6	CCB	CCB	1	06/11/10	17:18:27		
1005133-01	SS73-0-1	SAMPLE	1	06/11/10	17:25:36	1005133	
0052615-DUP1	SS73-0-1D	SAMPLE	1	06/11/10	17:32:45	1005133	
0052615-MS1	SS73-0-1S	SAMPLE	1	06/11/10	17:39:53	1005133	
0052615-MSD1	SS73-0-1SD	SAMPLE	1	06/11/10	17:47:02	1005133	
SRD3	SS73-0-1L	SAMPLE	5	06/11/10	17:54:10	1005133	
0052615-PS1	SS73-0-1A	SAMPLE	1	06/11/10	18:01:18	1005133	
1005133-02	SB74-4-5	SAMPLE	1	06/11/10	18:08:26	1005133	
1005133-03	SS75-0-1	SAMPLE	1	06/11/10	18:15:34	1005133	
1005133-04	SS75-3.5-4.5	SAMPLE	1	06/11/10	18:22:43	1005133	
1005133-05	SS63-0-1	SAMPLE	1	06/11/10	18:29:51	1005133	
CCV7	CCV	CCV	1	06/11/10	18:37:00		
CCB7	CCB	CCB	1	06/11/10	18:44:09		
1005133-06	SS63-5.5-6.5	SAMPLE	1	06/11/10	18:51:18	1005133	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob McEwen Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005133-07	SS61-0-1	SAMPLE	1	06/11/10	18:58:27	1005133	
1005133-08	SS61-D-0-1	SAMPLE	1	06/11/10	19:05:35	1005133	
1005133-09	SB61-6-7	SAMPLE	1	06/11/10	19:12:43	1005133	
1005133-10	SB61D-6-7	SAMPLE	1	06/11/10	19:19:52	1005133	
1005133-11	SS67-0-1	SAMPLE	1	06/11/10	19:29:48	1005133	
1005133-12	SS72-0-1	SAMPLE	1	06/11/10	19:36:56	1005133	
1005133-13	SB72-2-3	SAMPLE	1	06/11/10	19:44:05	1005133	
1005133-14	SS88-0-1	SAMPLE	1	06/11/10	19:51:14	1005133	
1005133-15	SB88-2.5-3.5	SAMPLE	1	06/11/10	19:58:22	1005133	
CCV8	CCV1	CCV	1	06/11/10	20:05:30		
CCB8	CCB1	CCB	1	06/11/10	20:12:40		
1005133-16	SS76-0-1	SAMPLE	1	06/11/10	20:19:48	1005133	
1005133-17	SB76-6-7	SAMPLE	1	06/11/10	20:26:57	1005133	
1005133-18	SS87-0-1	SAMPLE	1	06/11/10	20:34:05	1005133	
1005133-19	SB87-0-1	SAMPLE	1	06/11/10	20:41:14	1005133	
1005133-20	SS68-0-1	SAMPLE	1	06/11/10	20:48:22	1005133	
0052623-BLK1	PBS	PBS	1	06/11/10	20:55:31	1005157	
0052623-BS1	LCSS	LCS	1	06/11/10	21:02:39	1005157	
1005157-01	SS73-9-10	SAMPLE	1	06/11/10	21:09:48	1005157	
0052623-DUP1	SS73-9-10D	SAMPLE	1	06/11/10	21:16:56	1005157	
0052623-MS1	SS73-9-10S	SAMPLE	1	06/11/10	21:24:05	1005157	
CCV9	CCV1	CCV	1	06/11/10	21:31:14		
CCB9	CCB1	CCB	1	06/11/10	21:38:23		
0052623-MSD1	SS73-9-10SD	SAMPLE	1	06/11/10	21:45:31	1005157	
SRD4	SS73-9-10L	SAMPLE	5	06/11/10	21:52:40	1005157	
0052623-PS1	SS73-9-10A	SAMPLE	1	06/11/10	21:59:49	1005157	
1005157-02	SS51-0-1	SAMPLE	1	06/11/10	22:06:57	1005157	
1005157-03	SS51D-0-1	SAMPLE	1	06/11/10	22:14:06	1005157	
1005157-04	SS90-0-1	SAMPLE	1	06/11/10	22:21:15	1005157	
1005157-05	SB90-0-1	SAMPLE	1	06/11/10	22:28:24	1005157	
1005157-06	SS70-0-1	SAMPLE	1	06/11/10	22:35:32	1005157	
1005157-07	SS70-1-2	SAMPLE	1	06/11/10	22:42:41	1005157	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob Wiener Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005157-08	SS69-0-1	SAMPLE	1	06/11/10	22:49:50	1005157	
CCVA	CCV1	CCV	1	06/11/10	22:56:59		
CCBA	CCB1	CCB	1	06/11/10	23:04:08		
1005157-09	SB69-2-3	SAMPLE	1	06/11/10	23:11:17	1005157	
1005157-10	SB64-1-2	SAMPLE	1	06/11/10	23:18:26	1005157	
1005157-11	SB65-1-2	SAMPLE	1	06/11/10	23:25:34	1005157	
1005157-12	SB64-0-1	SAMPLE	1	06/11/10	23:32:43	1005157	
1005157-13	SB66-0-1	SAMPLE	1	06/11/10	23:39:52	1005157	
1005157-14	SB65-0-1	SAMPLE	1	06/11/10	23:47:01	1005157	
1005157-15	SS82-0-1	SAMPLE	1	06/11/10	23:54:10	1005157	
1005157-16	SS82D-0-1	SAMPLE	1	06/12/10	00:01:18	1005157	
1005157-17	SS82-2-3	SAMPLE	1	06/12/10	00:08:28	1005157	
1005157-18	SS82D-2-3	SAMPLE	1	06/12/10	00:15:37	1005157	
CCVB	CCV1	CCV	1	06/12/10	00:22:46		
CCBB	CCB1	CCB	1	06/12/10	00:29:55		
0052615-BLK1	PBS	PBS	1	06/12/10	00:37:04	1005133	
0052628-BLK1	PBS	PBS	1	06/12/10	00:44:13	1005177	
0052628-BS1	LCSS	LCS	1	06/12/10	00:51:21	1005177	
1005177-01	59SB13-00	SAMPLE	1	06/12/10	00:58:30	1005177	
0052628-DUP1	59SB13-00D	SAMPLE	1	06/12/10	01:05:39	1005177	
0052628-MS1	59SB13-00S	SAMPLE	1	06/12/10	01:12:48	1005177	
0052628-MSD1	59SB13-00SD	SAMPLE	1	06/12/10	01:19:58	1005177	
SRD5	59SB13-00L	SAMPLE	5	06/12/10	01:27:07	1005177	
0052628-PS1	59SB13-00A	SAMPLE	1	06/12/10	01:34:15	1005177	
1005177-02	59SB18-00	SAMPLE	1	06/12/10	01:41:25	1005177	
CCVC	CCV2	CCV	1	06/12/10	01:48:34		
CCBC	CCB2	CCB	1	06/12/10	01:55:43		
1005177-03	59SB18-01	SAMPLE	1	06/12/10	02:02:52	1005177	
1005177-04	59SB18-02	SAMPLE	1	06/12/10	02:10:02	1005177	
1005177-05	59SB19-01	SAMPLE	1	06/12/10	02:17:11	1005177	
1005177-06	59SB19-05	SAMPLE	1	06/12/10	02:24:20	1005177	
1005177-07	59SB20-00	SAMPLE	1	06/12/10	02:31:29	1005177	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob Maners Date: 06-14-2010

ICP Run Log (P4)

File Name: P40611A

Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1005177-08	59SB20-01	SAMPLE	1	06/12/10	02:38:39	1005177	
1005177-09	59SB20-05	SAMPLE	1	06/12/10	02:45:48	1005177	
1005177-10	59SB21-00	SAMPLE	1	06/12/10	02:52:57	1005177	
1005177-11	59SB21-01	SAMPLE	1	06/12/10	03:00:06	1005177	
1005177-12	59SB21-05	SAMPLE	1	06/12/10	03:07:15	1005177	
CCVD	CCV2	CCV	1	06/12/10	03:14:24		
CCBD	CCB2	CCB	1	06/12/10	03:21:33		
1005177-13	59SB22-00	SAMPLE	1	06/12/10	03:28:43	1005177	
1005177-14	59SB22-01	SAMPLE	1	06/12/10	03:35:52	1005177	
1005177-15	59SB22-05	SAMPLE	1	06/12/10	03:43:01	1005177	
1005177-16	59SB21-01D	SAMPLE	1	06/12/10	03:50:11	1005177	
1005177-17	59SB23-00	SAMPLE	1	06/12/10	03:57:20	1005177	
1005177-18	59SB23-01	SAMPLE	1	06/12/10	04:04:29	1005177	
1005177-19	59SB23-05	SAMPLE	1	06/12/10	04:11:39	1005177	
CCVE	CCV2	CCV	1	06/12/10	04:18:48		
CCBE	CCB2	CCB	1	06/12/10	04:25:57		

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Bob McCann Date: 06-14-2010

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: P40611, P40611A

	Ref #*	Manufacturer	Lot #	Expiration Date
HNO_3 [Baker Instra-analyzed Trace-Metals grade]	DE19001	JT Baker	510027	05.19.15
HCl [Baker Instra-analyzed Trace-Metals grade]	DE20028	Caledon	72420	05.20.15
SM-770-027 multi-element standard mix (RSTD-1)	9G08002	High Purity	0916328	06/15/10
SM-770-028 part A multi-element standard mix (RSTD-2A)	9J22002	High Purity	0928011	10/12/2010
SM-770-028 part B multi-element standard mix (RSTD-2B)	9J22001	High Purity	0928012	10/12/2010
SM-770-029 part A multi-element standard mix (RSTD-3A)	0D14008	High Purity	0925430	04/09/11
SM-770-029 part B multi-element standard mix (RSTD-3B)	9G08005	High Purity	0906204	10/16/10
SM-770-030 multi-element standard mix (RSTD-4)	9G08001	High Purity	0916327	06/15/10
SPEX-R multi-element standard mix	0A04007	High Purity	0916301	06/15/10
ICP-AES-CRQL-R multi-element standard mix	9I04002	High Purity	0923808	08/28/10
ICV1 multi-element standard mix	0B04003	EPA	0307	02/04/11
ICSA multi-element standard mix	0B04002	EPA	1206	02/04/11
ICSB multi-element standard mix	0B04001	EPA	0203	02/04/11
SM-770-031 multi-element standard mix (PDS-R)	9I22001	High Purity	0926418	09/17/10
ARSENIC (As) 1,000 PPM single-element standard	9F17001	High Purity	0911221	12/05/10
Internal Mix	0B04004	High Purity	0934101	12/10/10
SM-770-040 multi-element CCV mix (Soln A)	0E03001	High Purity	1010910	04/21/11
SM-770-040 multi-element CCV mix (Soln B)	0E03001	High Purity	1010911	04/21/11
SM-770-042 (LRS 6010B)	0B23007	High Purity	1004021	02/10/11

Multi-Element Stock Standard Concentrations:

Stock Standard	Analyte Concentrations (µg/mL)
RSTD-1 multi-element standard mix	Cd:1,000 Cr:1,000 Cu:1,000 Pb:1,000 Ni:1,000 Se:1,000 Ag:100 Tl:1,000 Zn:1,000
RSTD-2A/2B multi-element standard mix	Part A: As:1,000 Ba:1,000 Be:1,000 Co:1,000 Mn:1,000 Mo:1,000 V:1,000 Part B: Fe:25,000
RSTD-3A/3B multi-element standard mix	Part A: Ca:10,000 Mg:10,000 K:10,000 Na:10,000 Part B: Al:10,000
RSTD-4 multi-element standard mix	Sb:1,000 Bi:1,000 B:1,000 Sn:1,000 Ti:1,000
SPEX-R multi-element standard mix	Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 B:1,000
ICP-AES-CRQL-R multi-element standard mix	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60
PDS-R multi-element standard mix	Al:400 Ba:400 Ag:20 Be:10 Cd:10 Co:100 Cr:20 Cu:50 Fe:200 Mn:30 Ni:80 Tl:20 V:100 Zn:40 Pb:6 Se:10 As:20 Sb:120
Internal Mix	Li:50,000 Y:250
LRS 6010B multi-element standard mix	Al: 20 Sb:1 As:1 Ba:20 Be:0.5 Bi:2 B:2 Cd:0.5 Ca:500 Cr:1 Co:0.5 Cu:0.5 Fe:10 Pb:0.3 Mg:500 Mn:1 Mo:2 Ni:0.5 K:500 Se:0.5 Ti:0.5 V:2 Zn:2

Entered By: Sherry J. McMorrow

Reviewed By: Bob McGinn

Date: 06-14-2010

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

**High Purity is abbreviated "HP" on reporting forms

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 2 of 3 CompuChem a division of Liberty Analytical Corp. Worksheet 1 P(6) 2

Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (µg/L)
S0/ICB/CCB- 06.09.10 - SGM	OF09006	Place in a 500 mL volumetric flask: 100 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Bring up to volume with deionized water. Transfer to a 2L Teflon bottle and add 1.5L deionized water. Final volume 2 L. Prepare as needed.	N/A
RSTD-1- 06.09.10-JCF	OF09001	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-1 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
RSTD-2- 06.09.10-JCF	OF09002	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL each RSTD-2A and RSTD-2B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:50,000 Mn:2,000 Mo:2,000 V:2,000
RSTD-3- 06.09.10-JCF	OF09003	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 2.0 mL each RSTD-3A and RSTD-3B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	K:100,000 Na:100,000 Al:100,000 Mg:100,000 Ca:100,000
RSTD-4- 06.09.10-JCF	OF09004	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-4 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Tl:2,000 Sb:2,000 B:2,000
ICV1- 06.09.10-SGM	OF09010	Place in a 500 mL volumetric flask: 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICV1 into flask and 0.55 mL Compuchem SPEX-R. Bring up to volume with deionized water. Transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:2,521 Ba:497 K:10,021 Mg:6,074 Na:10,097 Ca:10,026 Ag:501 Be:495 Cd:496 Co:499 Cr:490 Cu:492 Fe:5,082 Mn:499 Ni:503 Tl:1,028 V:501 Zn:1,025 Pb:1002 Se:1,029 As:999 Sb:994 Mo:1,100 Sn:1,100 Bi:1,100 Ti:1,100 B:1,100
CCV/CVS1- 06.10.10-SGM	OF10004	Place in a 500-mL volumetric flask: 300 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Add 50 ml of SM-770-40 Soln A and Soln B. Bring up to volume with deionized water. Transfer to a 2000mL Teflon bottle and add 1.5 L of deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:25,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,100 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000
LRS- 04.26.10-JCF	OD25008	In a 500 mL volumetric flask, combine 200 mL deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 5.0mL of LRS 6010B. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:200 Ba:200 K:5,000 Mg:5,000 Na:5,000 Ca:5,000 Ag:5 Be:5 Cd:5 Co:10 Cr:10 Cu:5 Fe:100 Mn:10 Ni:5 Tl:10 V:20 Zn:20 Pb:3 Se:5 As:10 Mo:20 Sn:20 Bi:20 Ti:20 Sb:10 B:20

Standard Solutions Prepared By: SGM / JCF

Entered By: [signature]

Reviewed By: Bob Mercer

Date: 06-14-2010

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (ug/L)
As- 05.13.10-JCF	OE13006	In a 100 mL volumetric flask, combine 50 mL deionized water, 1 mL concentrated HNO_3, 5 mL concentrated HCl, and 0.1 mL 1000-ppm As standard. Bring to final 100 mL volume	As:1,000
ICSA- 06.09.10-SGM	OF09008	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Al:244,100 Ba:2 Ca:234,900 Co:4 Cr:43 Cu:23 Fe:95,600 Mg:247,500 Mn:19 Ni:21 Zn:28 Pb:10
ICSAB- 06.09.10-SGM	OF09009	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA and 50.0 mL ICSB into flask. Add 0.5 mL Compuchem SPEX-R. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Ag:206 Al:241,100 Ba:495 Be:475 Ca:231,100 Cd:940 Co:461 Cr:511 Cu:548 Fe:94,800 Mg:251,100 Mn:502 Ni:984 Tl:103 V:494 Zn:1028 Pb:61 Se:53 Sb:589 As:101 Sn:1,000 Bi:1,000 Mo:1,000 Tl:1,000 B:1,000
EPA-CRI- 06.03.10-JCF	OF03019	In a 500 mL volumetric flask, combine 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 0.50 mL ICP-AES-CRQL-R and 25 µL Compuchem SPEX-R into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60 Sn:50 B:50 Mo:50 Bi:50 Tl:50
P3RINSE- 06.09.10-JCF	OF09005	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P4RINSE- 06.09.10-JCF	OF09007	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P5RINSE- NA	NA	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P3INTSTD- 06.10.10-SGM	OF10002	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P4INTSTD- 05.11.10-JCF	OE11004	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P5INTSTD- NA	NA	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000

Standard Solutions Prepared By: SGM/JCF

Entered By: [signature]

Reviewed By: Bob McGorry

Date: 06-14-2010

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

METHOD: ALT-P4Q2 STANDARD: S0 BLANK
RUN TIME: 06/11/10 09:30:14

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
AVGE	-.00400	.23509	.04440	.07926	.03026	.10241	.06948
SDEV	.00100	.00429	.00020	.00109	.00066	.00133	.00071
%RSD	25.000	1.8243	.44867	1.3752	2.1737	1.2962	1.0146
#1	-.00500	.23382	.04461	.07801	.03055	.10285	.06966
#2	-.00400	.23157	.04438	.07974	.02951	.10092	.06871
#3	-.00300	.23987	.04421	.08003	.03073	.10346	.07008

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
AVGE	-.00084	.66863	-.00225	.05294	.00197	.00037	.00050
SDEV	.00260	.03043	.00295	.00893	.00407	.00034	.00256
%RSD	311.15	4.5517	131.46	16.864	206.20	91.512	509.92
#1	.00088	.69097	-.00022	.06307	.00491	.00066	.00044
#2	-.00383	.63397	-.00563	.04956	-.00267	.00000	-.00203
#3	.00044	.68097	-.00088	.04620	.00367	.00044	.00310

ELEM	NI2316	TL1908	V_2924	ZN2062	SB2068	AS1890	22031
AVGE	-.00134	-.01575	.00074	-.00031	.00911	-.02218	.01997
SDEV	.00202	.00552	.00078	.00111	.00872	.02392	.03029
%RSD	150.30	35.081	105.57	362.29	95.711	107.85	151.69
#1	-.00132	-.01297	.00066	.00044	.01319	-.00747	.02945
#2	-.00338	-.01216	.00000	-.00158	-.00090	-.04978	.04438
#3	.00066	-.02211	.00155	.00022	.01503	-.00929	-.01393

ELEM	22032	19601	19602	SN1899	BI2230	MO2020	TI3349
AVGE	-.01319	-.05721	.04386	-.00164	.00179	.00132	-.01110
SDEV	.01100	.01813	.03818	.01240	.00180	.00212	.00931
%RSD	83.412	31.698	87.054	756.18	100.35	160.95	83.834
#1	-.00418	-.05011	.06637	.00022	.00110	.00374	-.00549
#2	-.02545	-.04370	-.00023	-.01487	.00383	-.00023	-.02185
#3	-.00995	-.07782	.06544	.00973	.00044	.00044	-.00597

METHOD: ALT-P4Q2 STANDARD: S RSTD-1
RUN TIME: 06/11/10 09:37:23

ELEM	AG3280	CD2265	CR2677	CU3247	NI2316	TL1908	ZN2062
AVGE	5.8370	20.316	4.5395	124.45	7.4297	6.2437	2.0181
SDEV	.1091	.152	.0940	1.13	.0693	.0539	.0410
%RSD	1.8694	.74975	2.0711	.90580	.93289	.86379	2.0331
#1	5.7187	20.308	4.5257	123.35	7.4357	6.2750	1.9912
#2	5.8587	20.168	4.4531	124.38	7.3576	6.1815	1.9976
#3	5.9337	20.472	4.6396	125.60	7.4958	6.2747	2.0653

ELEM	22031	22032	19601	19602
AVGE	33.251	11.956	8.6256	16.821
SDEV	.302	.155	.0915	.264
%RSD	.90784	1.2958	1.0602	1.5681
#1	33.307	11.992	8.6895	16.988
#2	32.924	11.786	8.5208	16.517
#3	33.520	12.090	8.6665	16.958

METHOD: ALT-P4Q2 STANDARD: S RSTD-3
RUN TIME: 06/11/10 09:44:32

ELEM	AL3082	CA3179	K_7664	MG2790	NA3302
AVGE	60.854	76.864	411.99	59.172	3.8864
SDEV	.537	.735	4.64	.731	.0361
%RSD	.88292	.95669	1.1258	1.2354	.92804
#1	61.200	77.222	415.18	59.657	3.9111
#2	60.235	76.018	406.67	58.331	3.8450
#3	61.126	77.352	414.11	59.527	3.9032

METHOD: ALT-P4Q2 STANDARD: S RSTD-2
RUN TIME: 06/11/10 09:50:08

ELEM	BA4934	BE3130	CO2286	FE2714	MN2576	V_2924	AS1890
AVGE	32.916	15.599	4.0350	5.5951	4.5285	3.4756	13.973
SDEV	.517	.181	.0446	.0663	.0492	.0518	.250
%RSD	1.5720	1.1603	1.1044	1.1854	1.0859	1.4904	1.7860
#1	32.331	15.392	3.9920	5.5219	4.4872	3.4197	13.692
#2	33.315	15.679	4.0809	5.6513	4.5829	3.4850	14.169
#3	33.101	15.726	4.0322	5.6119	4.5154	3.5220	14.058

ELEM	MO2020
AVGE	3.7125
SDEV	.0680
%RSD	1.8325
#1	3.6355
#2	3.7380
#3	3.7642

METHOD: ALT-P4Q2 STANDARD: S RSTD-4
RUN TIME: 06/11/10 09:56:31

ELEM	SB2068	SN1899	BI2230	TI3349
AVGE	5.4736	19.593	4.0297	44.002
SDEV	.0272	.054	.0126	.489
%RSD	.49760	.27312	.31286	1.1122
#1	5.4466	19.569	4.0439	44.501
#2	5.4732	19.655	4.0197	43.981
#3	5.5010	19.556	4.0256	43.523

METHOD: ALT-P4Q2 SAMPLE NAME: ICV1 OPERATOR:
RUN TIME: 06/11/10 10:02:07
COMMENT: ICV1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	499.3381	2399.053	492.5311	501.8003	9633.907	487.7294	501.7988
SDEV	2.0751	7.571	5.0885	.5125	20.804	3.4890	5.1167
%RSD	.4155610	.3156035	1.033143	.1021378	.2159485	.7153618	1.019669
#1	497.0441	2405.524	486.6711	501.8573	9613.704	483.8043	496.6967
#2	499.8859	2400.909	495.8336	502.2819	9655.265	490.4787	506.9299
#3	501.0843	2390.726	495.0886	501.2617	9632.754	488.9051	501.7699
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	501.0000	2521.000	497.0000	495.0000	10026.00	496.0000	499.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	486.0225	496.4845	4936.160	10715.09	5968.230	494.2282	9585.219
SDEV	2.0089	1.0853	36.139	39.79	33.898	4.3934	53.200
%RSD	.4133258	.2186033	.7321252	.3713204	.5679809	.8889453	.5550247
#1	484.8351	495.2673	4896.275	10730.87	5948.300	490.0895	9558.744
#2	488.3419	497.3516	4966.729	10744.57	6007.371	498.8383	9646.462
#3	484.8904	496.8346	4945.476	10669.84	5949.020	493.7567	9550.449
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	490.0000	492.0000	5082.000	10021.00	6074.000	499.0000	10097.00
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	490.0078	1003.900	498.7670	950.9615	970.9829	976.1964	976.2063
SDEV	2.8054	8.493	3.3519	4.9462	4.2567	2.4815	5.2470
%RSD	.5725160	.8459991	.6720352	.5201261	.4383929	.2541966	.5374895
#1	486.7704	994.5949	501.8827	945.4002	971.6840	978.4132	970.7034
#2	491.7248	1011.234	499.1977	954.8683	966.4192	976.6602	981.1531
#3	491.5282	1005.871	495.2206	952.6161	974.8456	973.5158	976.7624
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	503.0000	1028.000	501.0000	1025.000	1002.000	1029.000	994.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	996.3701	972.0798	970.4313	972.2373	978.1705	1164.864	1116.049
SDEV	5.3666	3.5804	6.6658	11.6422	2.8476	5.390	7.833
%RSD	.5386179	.3683270	.6868892	1.197464	.2911116	.4627482	.7018332
#1	992.4915	967.9756	973.5315	978.2790	978.4777	1159.504	1107.036
#2	1002.495	973.7004	962.7801	979.6166	975.1818	1170.284	1121.214
#3	994.1240	974.5635	974.9825	958.8163	980.8520	1164.804	1119.895
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	999.0000					1100.000	1100.000
RANGE	10.40000					10.40000	10.40000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1146.752	1153.113	4579.244
SDEV	6.908	3.930	18.180
%RSD	.6023796	.3408442	.3970083
#1	1138.776	1151.375	4572.333
#2	1150.854	1157.613	4565.533
#3	1150.625	1150.351	4599.866
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1100.000	1100.000	
RANGE	10.40000	10.40000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICB OPERATOR:
RUN TIME: 06/11/10 10:09:15
COMMENT: ICB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2624972	25.18596	.1609488	.8693970	369.9392	-.348104	-.787435
SDEV	.2279729	4.63534	.1824859	.2993510	2.7957	.070364	.340634
%RSD	86.84776	18.40446	113.3814	34.43203	.7557205	20.21360	43.25863
#1	.2054325	24.47046	.0852491	.6463900	369.1691	-.270500	-1.02486
#2	.0684775	20.94998	.0284951	.7521824	367.6092	-.407746	-.940303
#3	.5135814	30.13746	.3691021	1.209619	373.0392	-.366065	-.397146
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4343163	-.301598	-1.55235	-1439.01	1.257381	.2560891	8.216570
SDEV	.3287528	.143607	6.85725	7.58	3.769423	.0615512	11.10145
%RSD	75.69434	47.61527	441.7322	.5267190	299.7836	24.03508	135.1105
#1	.6714255	-.414697	1.391194	-1441.94	-.102660	.2191244	14.37434
#2	.5724967	-.350070	3.341677	-1444.69	-1.64328	.2220000	-4.59903
#3	.0590267	-.140028	-9.38993	-1430.40	5.518082	.3271430	14.87439
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5692617	1.941027	.2445768	.7523528	-.070605	.5392692	1.112717
SDEV	.0963476	1.392730	.4797520	.5181072	1.129684	1.187738	1.551138
%RSD	16.92502	71.75223	196.1560	68.86493	1600.016	220.2496	139.4010
#1	.4830344	2.529525	.3705405	1.350606	-1.36219	1.390428	-.138528
#2	.6732564	.3506492	-.285590	.4555213	.4169189	1.045016	2.848213
#3	.5514941	2.942906	.6487799	.4509315	.7334531	-.817636	.6284644
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7444308	1.045769	-.630741	-2.43779	2.022780	-.493067	-.382672
SDEV	2.269535	2.301563	.546105	2.06390	2.705902	3.428779	1.280807
%RSD	304.8684	220.0832	86.58142	84.66288	133.7714	695.3976	334.7010
#1	3.105891	-1.59534	-1.24854	-2.67407	3.416867	-1.77907	-1.00318
#2	.5477829	2.110228	-.431254	-4.37338	3.747367	-3.09293	-1.23504
#3	-1.42038	2.622422	-.212427	-.265916	-1.09589	3.392800	1.090206
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.089160	.3613929	4330.289
SDEV	.832358	.3365849	39.472
%RSD	39.84175	93.13545	.9115322
#1	2.019607	.2530292	4370.133
#2	1.293761	.0923374	4329.533
#3	2.954113	.7388121	4291.200
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 06/11/10 10:16:24
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.575439	2.433710	.0413337	5.166122	373.3642	5.332054	53.14931
SDEV	.206381	7.041172	.0207104	.081942	.4952	.195239	.68675
%RSD	2.155319	289.3185	50.10531	1.586148	.1326271	3.661608	1.292113
#1	9.381420	-4.13442	.0557098	5.098160	373.9345	5.158234	52.56309
#2	9.792285	9.867817	.0506960	5.257116	373.0432	5.543295	53.90490
#3	9.552614	1.567732	.0175953	5.143091	373.1150	5.294632	52.97993
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	.0000000	.0000000	5.000000	.0000000	5.000000	50.00000
RANGE	3.000000	400.0000	400.0000	1.500000	2000.000	1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.52995	25.59276	7.484214	-1433.81	1.797187	15.78265	44.09402
SDEV	.61489	.23432	2.914716	1.22	.510193	.27418	8.98310
%RSD	5.839440	.9155876	38.94485	.0849652	28.38844	1.737230	20.37261
#1	10.03063	25.82435	6.894575	-1433.55	1.766781	15.52271	51.91682
#2	10.34246	25.35579	10.64867	-1432.74	2.321903	15.75610	46.08168
#3	11.21676	25.59815	4.909397	-1435.14	1.302877	16.06914	34.28355
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	10.00000	25.00000	.0000000	.0000000	.0000000	15.00000	.0000000
RANGE	3.000000	7.500000	200.0000	2000.000	2000.000	4.500000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	41.67993	25.87846	50.94109	62.29254	9.052007	36.16170	62.72596
SDEV	.48391	1.41937	.36143	1.15700	.144708	1.18327	.76805
%RSD	1.161020	5.484759	.7095001	1.857367	1.598628	3.272168	1.224449
#1	41.45895	27.36001	51.01461	60.95760	9.055607	35.29678	61.95569
#2	41.34595	24.53075	50.54856	63.00583	9.194881	37.51017	63.49177
#3	42.23488	25.74462	51.26011	62.91420	8.905533	35.67816	62.73042
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.53540	10.10251	8.524637	31.76773	38.35281	53.85080	50.21076
SDEV	.59972	1.65589	1.043053	1.16624	1.19178	2.51919	1.58142
%RSD	5.692388	16.39083	12.23575	3.671150	3.107400	4.678083	3.149566
#1	10.04438	9.901384	8.630453	30.91257	37.48302	52.81691	50.93641
#2	11.20380	8.556374	9.510750	33.09623	39.71124	56.72245	51.29913
#3	10.35803	11.84977	7.432710	31.29441	37.86416	52.01306	48.39674
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000					50.00000	
RANGE	3.000000					15.00000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	51.92784	51.98336	4673.999
SDEV	.78681	.11034	10.889
%RSD	1.515208	.2122628	.2329600
#1	52.52882	52.07442	4685.600
#2	52.21744	51.86065	4672.400
#3	51.03727	52.01500	4663.999
ERRORS	NOCHECK	NOCHECK	NOCHECK
VALUE			
RANGE			

METHOD: ALT-P4Q2 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 06/11/10 10:23:32
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0342388	234789.4	2.459795	1.055851	244554.9	7.557533	-.108895
SDEV	.0342388	3552.2	.024640	.207583	2180.7	.080672	.314913
%RSD	99.99999	1.512944	1.001696	19.66027	.8917088	1.067441	289.1886
#1	.0684775	232363.9	2.441396	.8166704	244346.2	7.536713	-.450483
#2	.0342388	233137.5	2.450201	1.189050	242486.1	7.646574	.1698723
#3	.0000000	238866.8	2.487789	1.161833	246832.5	7.489311	-.046075
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	10.00000	48820.00	400.0000	10.00000	46980.00	10.00000	10.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	41.93205	22.91069	93844.88	-1435.88	254162.1	18.60916	816.5173
SDEV	.39747	.33204	532.17	.83	2136.1	.11317	40.8852
%RSD	.9478983	1.449278	.5670710	.0576792	.8404616	.6081547	5.007261
#1	41.47542	22.88376	93558.09	-1436.40	252917.7	18.47928	794.4129
#2	42.20034	22.59294	93517.62	-1434.92	252940.0	18.66164	863.6962
#3	42.12040	23.25538	94458.93	-1436.32	256628.7	18.68658	791.4427
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	10.00000	19120.00	2000.000	49500.00	20.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	20.79599	11.09451	-3.90428	31.48201	4.828816	1.479741	3.328081
SDEV	1.03537	2.12363	.65605	.59135	.940254	2.644476	4.311686
%RSD	4.978707	19.14124	16.80328	1.878371	19.47173	178.7121	129.5547
#1	21.21725	13.37244	-3.93794	31.41819	5.905561	4.205367	6.169823
#2	19.61639	10.74174	-3.23205	32.10268	4.411041	-1.07533	5.447550
#3	21.55433	9.169365	-4.54284	30.92516	4.169847	1.309186	-1.63313
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	1.000000	28.00000	10.00000	.0000000	.0000000
RANGE	10.00000	20.00000	40.00000	40.00000	6.000000	10.00000	20.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.773342	-14.1613	14.30621	6.819340	-1.18881	-4.06804	2.884927
SDEV	2.147971	.7038	1.59298	2.877893	5.05098	1.43331	1.849816
%RSD	277.7516	4.969768	11.13491	42.20192	424.8758	35.23350	64.12003
#1	.2531725	-14.4145	16.04697	3.706392	4.451763	-3.75595	1.136221
#2	-3.24197	-14.7035	13.95054	7.368625	-5.29374	-5.63168	4.821515
#3	.6687720	-13.3660	12.92112	9.383004	-2.72446	-2.81648	2.697046
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	20.00000					100.0000	100.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-2.17226	-4.24842	4386.267
SDEV	2.11276	.07800	60.771
%RSD	97.26096	1.836086	1.385491
#1	.2667868	-4.25004	4448.667
#2	-3.43705	-4.32560	4382.866
#3	-3.34653	-4.16961	4327.267
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	100.0000	100.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 06/11/10 10:30:41
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	199.8402	234628.4	490.4762	484.2063	243908.7	931.1567	475.4164
SDEV	3.9296	3623.5	6.9475	1.7212	1550.0	4.3329	3.9020
%RSD	1.966376	1.544339	1.416482	.3554774	.6354773	.4653283	.8207454
#1	204.0630	230780.3	482.4915	485.3839	245659.9	936.0541	476.2186
#2	196.2908	237975.0	493.7965	485.0041	243353.2	929.5950	478.8548
#3	199.1669	235129.9	495.1405	482.2309	242713.0	927.8212	471.1756
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	92.20000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	503.7866	521.1509	93719.34	-1425.52	252178.8	500.1401	872.8276
SDEV	8.6620	3.7528	943.20	13.68	2990.4	5.5940	249.1164
%RSD	1.719370	.7200983	1.006404	.9597557	1.185836	1.118477	28.54130
#1	506.7324	525.3518	93933.41	-1409.77	251011.0	498.9422	1159.610
#2	510.5915	519.9714	94537.11	-1434.43	255576.8	506.2360	710.0516
#3	494.0360	518.1295	92687.52	-1432.36	249948.3	495.2421	748.8212
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	957.9349	110.6267	480.8094	919.4840	53.85581	49.52129	600.9813
SDEV	5.3545	2.8837	5.0750	14.9638	2.74317	.39964	2.5857
%RSD	.5589588	2.606729	1.055520	1.627415	5.093536	.8070040	.4302494
#1	963.4937	111.9913	482.0292	936.5664	50.71285	49.06218	603.9518
#2	957.4998	112.5748	485.1633	913.1928	55.08626	49.71052	599.7571
#3	952.8113	107.3139	475.2356	908.6930	55.76833	49.79117	599.2351
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	20.60000	98.80000	205.6000	12.20000	10.60000	117.8000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	104.6352	42.61185	59.46523	67.93946	40.32326	1002.858	993.8635
SDEV	5.1201	14.85199	11.49554	22.72840	11.94181	6.801	3.6736
%RSD	4.893304	34.85412	19.33152	33.45390	29.61518	.6781629	.3696313
#1	110.5460	59.75331	46.19535	94.17624	26.53628	1010.387	994.6736
#2	101.5665	33.58356	65.81729	54.26984	47.43147	1001.030	997.0644
#3	101.7931	34.49869	66.38306	55.37231	47.00203	997.1583	989.8524
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	101.0000					1000.000	1000.000
RANGE	20.20000					200.0000	200.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	966.8424	969.3399	4387.977
SDEV	4.8497	1.7196	82.475
%RSD	.5016013	.1774013	1.879578
#1	967.5119	969.5069	4474.066
#2	971.3226	970.9700	4309.667
#3	961.6928	967.5429	4380.200
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	200.0000	200.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 10:37:49
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	102.4309	47069.55	968.7883	1027.901	49156.48	979.5228	1002.532
SDEV	1.6761	331.45	3.8253	4.295	428.66	5.4929	5.181
%RSD	1.636286	.7041770	.3948561	.4178281	.8720214	.5607781	.5167520
#1	103.6750	46699.94	964.5581	1029.293	49424.04	978.3091	1003.228
#2	103.0929	47168.28	972.0044	1031.327	49383.34	985.5211	1007.330
#3	100.5250	47340.41	969.8024	1023.083	48662.07	974.7382	997.0392
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	994.5686	1000.789	24796.97	50325.86	50393.88	1009.718	49340.85
SDEV	6.3639	4.874	137.65	674.73	153.02	5.306	378.89
%RSD	.6398613	.4870457	.5551000	1.340717	.3036499	.5254546	.7679096
#1	999.2322	1004.699	24841.97	49578.64	50289.78	1011.201	48917.03
#2	997.1549	1002.340	24906.48	50508.38	50569.57	1014.124	49458.70
#3	987.3188	995.3279	24642.45	50890.54	50322.29	1003.828	49646.81
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	977.0360	978.3931	1007.061	1067.194	971.5490	989.2875	990.9059
SDEV	7.3207	8.4380	6.526	13.125	8.3250	1.0446	12.3310
%RSD	.7492719	.8624323	.6479841	1.229888	.8568799	.1055959	1.244421
#1	971.9105	968.6528	1009.593	1072.484	968.6255	988.1615	977.1644
#2	985.4202	983.4734	1011.941	1076.849	980.9415	990.2252	1001.007
#3	973.7773	983.0531	999.6490	1052.249	965.0801	989.4759	994.5467
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1016.257	964.1185	975.2560	985.9522	990.9502	1025.575	976.4695
SDEV	8.211	8.7555	8.2482	2.7421	2.9318	4.029	7.6146
%RSD	.8079477	.9081308	.8457474	.2781186	.2958534	.3928328	.7798099
#1	1007.542	963.0566	971.4028	988.7846	987.8480	1023.517	968.2642
#2	1023.848	973.3564	984.7256	983.3103	993.6750	1022.990	983.3084
#3	1017.380	955.9424	969.6396	985.7618	991.3276	1030.217	977.8359
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1015.133	994.0777	4633.200
SDEV	12.364	4.8091	70.582
%RSD	1.217974	.4837713	1.523387
#1	1005.507	991.2129	4708.533
#2	1029.077	999.6298	4622.466
#3	1010.814	991.3903	4568.600
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 10:44:59
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2739101	40.95726	.2921254	.5850620	395.1053	.2956339	.3208009
SDEV	.1711938	39.73665	.2634491	.4501557	32.0556	.6651913	1.439136
%RSD	62.50000	97.01980	90.18356	76.94154	8.113192	225.0051	448.6072
#1	.2739101	10.40915	.1150335	.4358746	366.8566	-.437211	-1.24042
#2	.1027163	85.88112	.5948774	1.090872	429.9437	.8612624	1.594417
#3	.4451039	26.58150	.1664652	.2284394	388.5156	.4628505	.6084059
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6923424	-.102328	17.70870	-1424.09	31.75535	.2041454	52.23008
SDEV	.5720843	.218170	12.30171	19.73	39.30279	.2898110	75.39507
%RSD	82.63026	213.2063	69.46703	1.385161	123.7674	141.9630	144.3518
#1	.2708553	-.317755	7.854569	-1437.95	-3.01933	-.083133	32.01923
#2	1.343588	.1184848	31.49602	-1401.51	74.39641	.4964241	135.6707
#3	.4625840	-.107714	13.77551	-1432.82	23.88898	.1991453	-10.9997
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0421407	.0593832	.2137617	.6264877	.2318627	1.938999	3.282663
SDEV	.3821129	1.113622	.2566329	.6453217	1.171906	2.438804	.515963
%RSD	906.7545	1875.313	120.0556	103.0063	505.4310	125.7764	15.71782
#1	-.237577	-.383755	-.035813	.4739066	-.012661	2.333736	3.744528
#2	-.113515	1.326359	.4769139	1.334426	1.506738	4.156356	3.377656
#3	.4775140	-.764454	.2001840	.0711301	-.798490	-.673095	2.725804
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1838529	2.183470	-.745115	.9048459	2.452663	.1514732	.8344355
SDEV	2.563226	1.622901	1.259228	1.265105	3.155666	.5917561	1.741591
%RSD	1394.172	74.32671	168.9978	139.8144	128.6628	390.6671	208.7149
#1	-2.68553	3.129280	-1.58395	1.891562	2.551821	.7422516	.4381204
#2	.9899805	3.111596	.7028562	1.344378	5.557581	.1534240	2.740030
#3	2.247111	.3095328	-1.35426	-.521402	-.751413	-.441256	-.674844
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.576873	.1877038	4576.777
SDEV	.775640	.3721435	81.376
%RSD	30.10004	198.2611	1.778023
#1	3.250570	-.153611	4517.066
#2	2.751119	.5844561	4543.800
#3	1.728931	.1322664	4669.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: LRS OPERATOR:
RUN TIME: 06/11/10 10:55:21
COMMENT: SDG:LRS CLIENTID:LRS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.964620	207.8920	185.1643	5.236400	4769.827	4.807436	5.573231
SDEV	.280256	25.8191	1.6017	.261622	30.918	.302323	.555371
%RSD	5.645071	12.41947	.8650185	4.996217	.6482075	6.288663	9.964976
#1	5.204291	185.9146	184.8511	4.939775	4802.189	4.769778	5.036515
#2	4.656471	201.4345	183.7423	5.335149	4766.704	4.525706	6.145545
#3	5.033098	236.3270	186.8994	5.434274	4740.589	5.126825	5.537634
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	300.0000	300.0000	7.500000	7500.000	7.500000	7.500000
LOW	2.500000	100.0000	100.0000	2.500000	2500.000	2.500000	2.500000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.754917	4.841728	75.99686	4444.734	4748.915	9.568942	4397.913
SDEV	.142370	.177972	11.15929	69.858	10.285	.023937	22.096
%RSD	1.459465	3.675797	14.68388	1.571696	.2165675	.2501557	.5024216
#1	9.754091	4.852500	70.17239	4364.070	4737.185	9.596049	4382.327
#2	9.612962	4.658615	68.95489	4484.914	4756.385	9.560067	4423.200
#3	9.897697	5.014070	88.86330	4485.219	4753.175	9.550710	4388.212
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	15.00000	7.500000	150.0000	7500.000	7500.000	15.00000	7500.000
LOW	5.000000	2.500000	50.00000	2500.000	2500.000	5.000000	2500.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.337708	13.25040	19.02143	19.87954	3.487842	6.977402	11.23668
SDEV	.319330	3.10521	.12823	.54803	.278345	2.036573	1.63049
%RSD	5.982527	23.43487	.6741177	2.756747	7.980443	29.18813	14.51044
#1	5.681050	14.60415	19.06958	20.03775	3.789043	H8.695612	10.30880
#2	5.049595	9.698132	18.87609	19.26981	3.240110	H7.508780	10.28189
#3	5.282479	H15.44891	19.11861	20.33106	3.434374	4.727813	13.11934
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	7.500000	15.00000	30.00000	30.00000	4.500000	7.500000	15.00000
LOW	2.500000	5.000000	10.00000	10.00000	1.500000	2.500000	5.000000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.91682	2.547436	3.954679	6.024655	7.450398	18.93564	18.75938
SDEV	1.95188	.832225	.328478	3.040812	1.908460	.81256	1.18181
%RSD	14.02533	32.66914	8.306066	50.47281	25.61555	4.291193	6.299820
#1	14.46817	2.924748	4.217909	9.452273	8.315213	18.91780	19.83312
#2	11.74856	1.593387	4.059560	4.970476	8.773352	18.13215	18.95187
#3	H15.53372	3.124172	3.586568	3.651215	5.262630	19.75698	17.49314
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	15.00000					30.00000	30.00000
LOW	5.000000					10.00000	10.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	19.38641	18.84983	4534.400
SDEV	.49995	.08479	41.103
%RSD	2.578874	.4498419	.9064782
#1	19.05781	18.76150	4581.800
#2	19.13966	18.85739	4508.600
#3	19.96177	18.93059	4512.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	30.00000	30.00000	
LOW	10.00000	10.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005064-14 OPERATOR:
RUN TIME: 06/11/10 11:02:29
COMMENT: SDG:1005064 CLIENTID:SDZ-WN03 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3081488	16.48993	.9744000	.3629975	20019.18	.7244642	2.207438
SDEV	.1492433	3.15206	.0132050	.0482467	80.69	.0762188	.310845
%RSD	48.43221	19.11507	1.355196	13.29118	.4030868	10.52071	14.08172
#1	.2396713	16.52461	.9654794	.4005759	20062.55	.6454910	2.353583
#2	.4793426	13.32067	.9681510	.3798262	20068.92	.7975919	2.418278
#3	.2054325	19.62450	.9895697	.3085903	19926.08	.7303098	1.850454
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.189069	.4362402	L-225.202	23013.24	58712.66	2.294667	469553.9
SDEV	.210325	.1779720	13.161	245.68	190.25	.079717	2430.8
%RSD	111.2423	40.79679	5.843894	1.067544	.3240334	3.474032	.5176808
#1	-.424629	.2638988	L-238.957	23246.72	58856.79	2.269220	471400.8
#2	-.122477	.4254685	L-223.921	23036.04	58784.17	2.230780	470460.9
#3	-.020101	.6193535	L-212.729	22756.96	58497.02	2.384001	466800.0
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6244875	1.426726	.6184366	1.768128	-.324047	.9068685	.8535792
SDEV	.2736640	1.559489	.2733622	.383059	.455306	1.009732	.9113986
%RSD	43.82217	109.3055	44.20214	21.66467	140.5063	111.3427	106.7738
#1	.9097120	-.367880	.9243621	2.210424	-.174212	1.242532	1.616790
#2	.3640736	2.452678	.5328096	1.550834	-.835388	1.706019	-.155545
#3	.5996770	2.195380	.3981381	1.543125	.0374599	-.227946	1.099492
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.665491	3.690543	-2.33100	-.141245	1.427469	-1.43845	1.093524
SDEV	1.077996	2.084907	.51377	.207570	1.615719	1.74746	1.495073
%RSD	64.72541	56.49323	22.04084	146.9574	113.1877	121.4824	136.7206
#1	.6912061	5.294879	-2.90736	-.252143	1.986049	-.035549	.7878160
#2	1.481701	1.333892	-1.92107	-.269812	2.689782	-3.39590	-.225066
#3	2.823568	4.442857	-2.16458	.0982192	-.393424	-.883903	2.717823
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.4052333	-.878757	4521.088
SDEV	.8812769	.134176	50.964
%RSD	217.4739	15.26888	1.127256
#1	-.588742	-1.02430	4471.667
#2	1.091055	-.851993	4518.133
#3	.7133874	-.759979	4573.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005064-15 OPERATOR:
RUN TIME: 06/11/10 11:09:38
COMMENT: SDG:1005064 CLIENTID:SDZ-WN30 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1826067	13.77385	.8394393	.3800685	25933.91	.6952684	2.251994
SDEV	.3106747	4.88741	.0883200	.2594146	492.26	.1712518	.703823
%RSD	170.1332	35.48329	10.52131	68.25470	1.898118	24.63104	31.25334
#1	.1369550	9.502348	.7848190	.0843034	26502.02	.8862224	3.056204
#2	-.102716	19.10374	.7921646	.5690386	25665.73	.5552984	1.951390
#3	.5135814	12.71546	.9413343	.4868633	25633.97	.6442845	1.748388
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.051236	1.066365	L-223.177	33435.32	82466.11	3.237454	638872.6
SDEV	1.256135	.266632	38.887	933.07	173.93	.279806	7903.4
%RSD	2451.686	25.00384	17.42417	2.790667	.2109140	8.642764	1.237080
#1	1.246836	1.362577	L-183.576	32367.37	82474.27	3.519498	629808.3
#2	-.139795	.9909649	L-224.648	33845.89	82635.82	3.232922	642487.4
#3	-1.26075	.8455518	L-261.308	34092.70	82288.24	2.959942	644322.2
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9781753	1.710358	-.048515	1.329891	-.528927	.9241220	.7608786
SDEV	1.284603	2.182441	.417149	1.218678	.365691	.7196216	3.532396
%RSD	131.3265	127.6014	859.8369	91.63748	69.13819	77.87084	464.2523
#1	2.454481	-.266525	-.217986	2.408760	-.153430	1.334318	4.043177
#2	.1151405	4.052313	-.354257	1.572894	-.549402	1.344851	1.216802
#3	.3649042	1.345287	.4266986	.0080187	-.883951	.0931968	-2.97734
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.441329	4.004966	-2.79521	4.161783	-.695015	-1.76921	-1.25565
SDEV	2.868301	6.361665	3.62787	5.459956	3.652250	.84910	.78472
%RSD	199.0040	158.8444	129.7888	131.1927	525.4924	47.99297	62.49515
#1	3.934730	.8359381	-.650034	4.892197	-.444616	-.864152	-1.99099
#2	2.082579	-.149748	-.751692	-1.62661	2.825592	-1.89522	-1.34651
#3	-1.69332	11.32871	-6.98390	9.219766	-4.46602	-2.54826	-.429455
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.7716392	-1.10412	4419.222
SDEV	.5611283	.34965	101.719
%RSD	72.71899	31.66766	2.301748
#1	.1272636	-.753317	4536.267
#2	1.152564	-1.10645	4369.200
#3	1.035091	-1.45261	4352.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005064-17 OPERATOR:
RUN TIME: 06/11/10 11:16:46
COMMENT: SDG:1005064 CLIENTID:SDZ-WN10 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2853230	36.94000	.7695385	1.289966	25722.05	.4294245	1.824023
SDEV	.3817788	4.36390	.0542686	.146571	130.74	.1633629	.199179
%RSD	133.8058	11.81347	7.052094	11.36241	.5082666	38.04228	10.91974
#1	.0000000	41.66643	.7468293	1.439188	25596.60	.5957939	2.053776
#2	.7190139	33.06377	.8314727	1.284512	25712.05	.2692441	1.700081
#3	.1369550	36.08979	.7303134	1.146198	25857.50	.4232355	1.718211
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.232386	-.166956	L-246.991	37144.20	84479.98	-.641809	675303.5
SDEV	.324693	.102611	14.449	883.37	356.92	.174008	8182.2
%RSD	139.7217	61.45984	5.850076	2.378222	.4224897	27.11212	1.211636
#1	.0435946	-.107714	L-231.520	37900.04	84866.02	-.444943	682947.4
#2	-.590152	-.285441	L-260.136	37359.46	84411.92	-.775050	676290.6
#3	-.150599	-.107714	L-249.317	36173.09	84161.98	-.705436	666672.5
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.155825	3.156342	.3776669	1.056092	-.756511	.4438454	.4409045
SDEV	.568029	1.354605	.3414122	.263243	.634290	1.265330	.1628214
%RSD	364.5302	42.91692	90.40035	24.92613	83.84418	285.0834	36.92896
#1	.2305913	3.043178	.0721490	.9044784	-1.11835	1.357963	.6257731
#2	-.808020	4.563979	.7461952	.9037396	-1.12707	.9738793	.3188305
#3	.1099536	1.861869	.3146566	1.360059	-.024113	-1.00031	.3781098
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.064274	1.878180	-2.07477	-2.05510	1.688560	.8230075	1.866740
SDEV	1.593566	3.656447	2.38408	4.15314	2.796635	2.214896	1.000057
%RSD	77.19743	194.6803	114.9081	202.0889	165.6225	269.1222	53.57236
#1	3.834756	-.589345	-1.38540	-5.76682	4.912078	1.616052	1.664887
#2	1.613195	6.078944	-4.72757	2.430567	.2437276	2.532210	2.952327
#3	.7448698	.1449409	-.111339	-2.82906	-.090127	-1.67924	.9830070
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.4170111	-1.23939	4181.711
SDEV	.2190761	.14681	82.342
%RSD	52.53483	11.84512	1.969103
#1	.6097912	-1.08913	4110.200
#2	.4624703	-1.38248	4163.200
#3	.1787718	-1.24655	4271.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005064-20 OPERATOR:
RUN TIME: 06/11/10 11:23:54
COMMENT: SDG:1005064 CLIENTID:SDZ-WN18 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.228258	23.29126	.6261595	.5697613	28890.33	.5125868	2.247624
SDEV	.188572	4.69691	.1216622	.0469670	190.96	.1103044	.512297
%RSD	82.61356	20.16597	19.42991	8.243275	.6609986	21.51918	22.79284
#1	-.445104	18.27895	.5738836	.5383777	28686.13	.3857926	1.899156
#2	-.102716	27.59143	.5393721	.5471491	29064.50	.5864482	2.835834
#3	-.136955	24.00342	.7652227	.6237572	28920.36	.5655196	2.007882
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.33938	2.046559	L-168.089	33111.77	82780.63	1.690074	645290.1
SDEV	.91387	1.142628	43.402	205.73	493.74	.378577	1355.9
%RSD	68.23088	55.83167	25.82068	.6213106	.5964407	22.40004	.2101156
#1	-2.39270	1.217164	L-217.186	32962.88	82226.54	1.255451	644433.1
#2	-.868073	1.572619	L-134.833	33346.52	83173.91	1.866792	646853.2
#3	-.757380	3.349894	L-152.247	33025.91	82941.45	1.947979	644583.8
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.177242	.9125909	-.294776	.4539744	-1.07569	.3737468	-1.99332
SDEV	1.392829	1.880016	.541659	.9809364	.26788	1.725713	3.66112
%RSD	785.8344	206.0086	183.7529	216.0775	24.90289	461.7332	183.6696
#1	-1.75947	3.069730	-.620248	-.671172	-.786963	-1.55880	-6.03633
#2	.3641201	-.376979	-.594583	1.129551	-1.12394	.9192515	1.097918
#3	.8636282	.0450219	.3305029	.9035450	-1.31616	1.760785	-1.04154
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0876637	3.001315	-3.11392	2.677600	-.779245	-4.60245	-2.73928
SDEV	3.417538	5.763184	2.59272	.609608	2.870982	.54960	1.55399
%RSD	3898.465	192.0220	83.26219	22.76694	368.4313	11.94138	56.72986
#1	-3.84202	9.215505	-5.78348	3.374147	-4.02436	-5.14502	-4.00308
#2	2.365144	-2.16786	-.605566	2.241356	.2563860	-4.61622	-3.21054
#3	1.739870	1.956299	-2.95272	2.417297	1.430235	-4.04609	-1.00421
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.291161	-1.40041	4325.733
SDEV	.923635	.57903	15.485
%RSD	317.2248	41.34719	.3579691
#1	-1.33598	-2.06870	4335.267
#2	.0458821	-1.04848	4307.866
#3	.4166181	-1.08404	4334.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-01 OPERATOR:
RUN TIME: 06/11/10 11:31:02
COMMENT: SDG:1005078 CLIENTID:SDZ-SW03 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0114129	76.38051	.9809994	.3890145	20004.32	.5531566	2.253201
SDEV	.2951955	4.54031	.1087596	.1847638	236.79	.0730580	.450719
%RSD	2586.503	5.944331	11.08661	47.49535	1.183674	13.20747	20.00351
#1	.2739101	71.20551	.9319608	.1768917	20178.27	.5097210	2.672988
#2	.0684775	78.24072	1.105644	.5148397	20100.03	.6375041	2.309732
#3	-.308149	79.69529	.9053935	.4753120	19734.66	.5122447	1.776883
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2307151	.5978103	L-179.051	24613.75	62497.49	-.365589	497781.6
SDEV	.4532977	.2365413	11.475	608.71	438.13	.138146	5427.8
%RSD	196.4751	39.56795	6.408920	2.473043	.7010391	37.78732	1.090392
#1	.7541339	.8132375	L-165.977	23930.96	61997.18	-.218102	491517.5
#2	-.029173	.6355101	L-183.722	24810.67	62682.63	-.491965	500734.3
#3	-.032816	.3446831	L-187.454	25099.62	62812.66	-.386700	501092.8
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6592349	.0741944	.2940272	1.984126	.1642561	-.462528	-.143556
SDEV	.5256783	.5359825	.2105658	.414847	.8764361	1.829066	1.772308
%RSD	79.74067	722.4028	71.61441	20.90831	533.5790	395.4501	1234.576
#1	1.249944	.6842539	.5371588	2.393215	-.803690	1.623176	1.806669
#2	.2429047	-.140570	.1706690	1.995412	.3923969	-1.21752	-.581506
#3	.4848565	-.321101	.1742536	1.563750	.9040616	-1.79324	-1.65583
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.770233	.4120269	.0378675	-4.25075	1.426055	.4960182	1.368975
SDEV	1.956548	2.745042	1.340221	1.60341	2.020904	2.691743	2.015619
%RSD	70.62756	666.2288	3539.242	37.72052	141.7129	542.6702	147.2356
#1	4.616515	-.310161	-1.05272	-2.66110	3.759466	-1.55106	1.402534
#2	.7194782	-1.89972	1.534033	-4.22359	.2805584	3.545040	3.367605
#3	2.974707	3.445964	-.367710	-5.86757	.2381420	-.505922	-.663214
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.107484	2.129612	4491.088
SDEV	.416801	.174534	79.539
%RSD	387.7798	8.195579	1.771036
#1	.1189217	2.261840	4581.133
#2	-.588489	2.195213	4461.733
#3	.1471154	1.931782	4430.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0051443-DUP1 OPERATOR:
RUN TIME: 06/11/10 11:38:10
COMMENT: SDG:1005078 CLIENTID:SDZ-SW03D 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4793426	67.43452	.9897808	1.111961	18956.66	.2620191	1.107996
SDEV	.1811745	11.57736	.0475381	.316294	387.76	.0756863	.299716
%RSD	37.79645	17.16830	4.802893	28.44468	2.045513	28.88579	27.05029
#1	.6847752	68.45668	1.032206	1.220484	18510.57	.1852888	.7619166
#2	.3423876	78.46691	.9384031	1.359708	19146.36	.3366163	1.282255
#3	.4108651	55.37997	.9987329	.7556916	19213.05	.2641523	1.279817
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.465086	2.078873	L-198.192	25644.65	61651.68	-.239750	501312.6
SDEV	.483443	.262687	4.845	499.43	755.62	.157878	3902.3
%RSD	103.9470	12.63603	2.444485	1.947517	1.225623	65.85118	.7784262
#1	-.885491	2.025017	L-200.389	25865.44	61097.29	-.175256	501936.6
#2	-.572944	1.847288	L-201.548	25995.63	62512.35	-.419665	504865.4
#3	.0631761	2.364315	L-192.638	25072.87	61345.40	-.124329	497135.9
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6133800	3.805587	.5092691	2.946308	-.311076	.6145912	.0590246
SDEV	.2480151	2.104914	.4410095	.356862	1.352037	1.340959	1.558037
%RSD	40.43417	55.31117	86.59656	12.11216	434.6328	218.1871	2639.638
#1	.6175082	2.706925	1.010922	2.739091	.7801851	.3694280	-1.73527
#2	.3633265	2.477320	.3342572	2.741459	.1101787	2.061217	.8427336
#3	.8593051	6.232515	.1826282	3.358374	-1.82359	-.586871	1.069607
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.059045	2.400248	-1.66753	-3.28228	2.557287	1.495111	1.785239
SDEV	.672006	2.283219	1.21031	1.16914	1.835963	2.088222	1.067200
%RSD	63.45390	95.12427	72.58122	35.61984	71.79338	139.6700	59.77912
#1	1.437971	4.955828	-1.30735	-2.17164	1.635212	3.233414	.7602139
#2	.2831500	1.683571	-.678186	-3.17296	4.671532	-.821245	1.705376
#3	1.456014	.5613462	-3.01704	-4.50225	1.365117	2.073164	2.890127
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.271905	-.240192	4281.600
SDEV	.736459	.075174	71.443
%RSD	57.90199	31.29758	1.668616
#1	1.846811	-.213695	4242.267
#2	.4417891	-.325028	4238.466
#3	1.527116	-.181855	4364.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005078-01 OPERATOR:
RUN TIME: 06/11/10 11:45:18
COMMENT: SDG:1005078 CLIENTID:SDZ-SW03L 1:75
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1597809	11.00172	.1523349	-.137195	4274.293	.1588242	1.106093
SDEV	.2227713	6.04299	.0506994	.206952	38.589	.2739342	.356338
%RSD	139.4230	54.92770	33.28153	150.8455	.9028136	172.4764	32.21589
#1	.1711938	6.465331	.1081152	-.226462	4249.577	.1327719	.7288885
#2	-.068478	17.86161	.1412200	.0994095	4254.542	.4448538	1.437047
#3	.3766263	8.678225	.2076697	-.284532	4318.759	-.101153	1.152343
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6508619	1.653404	-68.9621	3463.420	12607.68	.0124696	103272.2
SDEV	.2836076	.287214	11.6054	22.692	75.68	.0562094	286.9
%RSD	43.57417	17.37108	16.82862	.6551880	.6002802	450.7709	.2777777
#1	.3680422	1.750346	-60.5028	3452.023	12521.84	.0447125	102943.2
#2	.9352509	1.330263	-82.1926	3489.552	12636.42	.0451314	103470.5
#3	.6492924	1.879603	-64.1910	3448.686	12664.78	-.052435	103402.8
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6692705	.8166299	-.154818	1.594238	-.408053	.6094880	1.869859
SDEV	.1831868	.6367242	.070888	.432146	.424923	1.645253	1.399572
%RSD	27.37112	77.96974	45.78785	27.10671	104.1342	269.9402	74.84905
#1	.8783779	1.546282	-.193969	1.110813	-.520649	2.464633	.7225474
#2	.5370946	.3735495	-.197496	1.943072	.0618278	.0364371	1.457838
#3	.5923389	.5300583	-.072989	1.728830	-.765339	-.672606	3.429191
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0997525	1.914650	-1.57022	-1.65042	1.735190	.6008567	1.869430
SDEV	.4475978	.825261	.90967	1.81101	1.619442	1.078975	.938324
%RSD	448.7084	43.10247	57.93237	109.7302	93.32938	179.5727	50.19308
#1	.4017573	1.205845	-1.38516	.1815565	3.601906	1.036203	1.437120
#2	-.414483	1.717460	-.767320	-1.69311	.8973427	1.394144	2.945982
#3	.3119836	2.820644	-2.55819	-3.43972	.7063217	-.627777	1.225187

ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.287880	.3619936	4715.555
SDEV	.266274	.1859790	20.352
%RSD	92.49484	51.37633	.4315901
#1	-.136314	.3891717	4726.667
#2	-.131989	.1639209	4692.066
#3	-.595337	.5328882	4727.933

ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-02 OPERATOR:
RUN TIME: 06/11/10 11:52:26
COMMENT: SDG:1005078 CLIENTID:SDZ-WN12 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3538005	16.02989	.9176009	.2670863	30577.92	.6653804	2.416986
SDEV	.4402489	7.46420	.0870141	.1928680	508.77	.0234480	.087625
%RSD	124.4342	46.56424	9.482781	72.21185	1.663841	3.524000	3.625370
#1	.0342388	20.16105	.9178343	.3592771	30495.66	.6421248	2.316383
#2	.1711938	20.51522	.8304703	.3965576	30115.29	.6650002	2.476636
#3	.8559690	7.413404	1.004498	.0454241	31122.80	.6890162	2.457937
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4996627	1.254864	L-229.782	35810.83	87013.39	5.818695	665739.9
SDEV	.4043657	.417069	14.371	351.24	483.30	.114391	1907.1
%RSD	80.92774	33.23619	6.254253	.9808215	.5554326	1.965925	.2864653
#1	.0645287	1.055594	L-246.253	36043.66	87317.09	5.706190	667137.6
#2	.5705824	.9748082	L-219.800	35982.02	86456.07	5.815013	666514.8
#3	.8638769	1.734190	L-223.292	35406.82	87267.00	5.934883	663567.3
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7893575	1.857791	.5063138	1.642286	-.566671	1.031680	2.456403
SDEV	1.342204	3.571035	.8555628	.261058	1.150150	.141689	.599955
%RSD	170.0375	192.2194	168.9787	15.89598	202.9660	13.73383	24.42412
#1	-.748773	-.622325	-.229278	1.793523	-.342011	1.133717	2.642138
#2	1.723126	.2449455	.3029995	1.792493	-1.81258	.8699042	1.785545
#3	1.393720	5.950753	1.445220	1.340844	.4545727	1.091419	2.941526
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7630559	1.514770	-1.60857	-2.72111	2.902528	1.335453	1.341741
SDEV	1.099074	4.156725	.46844	.71313	.322494	2.166184	4.457468
%RSD	144.0359	274.4129	29.12180	26.20730	11.11080	162.2059	332.2151
#1	.6414385	1.542164	-1.28544	-3.06598	3.227660	1.249606	-1.34523
#2	-.270151	-2.65558	-1.39445	-3.19626	2.897189	-.786531	-1.11663
#3	1.917881	5.657730	-2.14581	-1.90111	2.582738	3.543284	6.487089
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.7189501	-.945669	4414.200
SDEV	.7231618	.096920	50.033
%RSD	100.5858	10.24884	1.133448
#1	.6520554	-1.05705	4381.533
#2	.0315600	-.880521	4389.267
#3	1.473235	-.899437	4471.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-03 OPERATOR:
RUN TIME: 06/11/10 11:59:35
COMMENT: SDG:1005078 CLIENTID:SDZ-WN15 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2396713	75.12016	1.373703	1.288736	35570.56	.4894183	2.295110
SDEV	.0342388	7.27858	.062040	.205808	292.26	.1274694	.097089
%RSD	14.28572	9.689248	4.516293	15.96977	.8216345	26.04508	4.230271
#1	.2739101	72.93081	1.302709	1.209893	35244.06	.3526733	2.210104
#2	.2054325	83.24213	1.417498	1.522309	35659.89	.6049506	2.274313
#3	.2396713	69.18755	1.400903	1.134005	35807.73	.5106311	2.400912
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.348979	-.193885	L-189.815	43704.46	95634.27	9.584554	H747192.5
SDEV	.339924	.219958	17.851	841.80	1207.06	.174470	7147.6
%RSD	97.40539	113.4477	9.404181	1.926116	1.262159	1.820327	.9565931
#1	-.059767	.0538571	L-178.609	43455.69	94668.43	9.474676	H745689.1
#2	-.723401	-.366226	L-180.435	44642.61	96987.45	9.785728	H754972.2
#3	-.263767	-.269284	L-210.400	43015.09	95246.95	9.493256	H740916.2
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5862564	1.632447	.3122766	1.145099	-.752806	1.395178	.5099105
SDEV	.5862044	2.822897	.3198959	.475386	.493218	2.800057	2.379931
%RSD	99.99110	172.9243	102.4399	41.51483	65.51730	200.6953	466.7351
#1	1.147948	-.466243	-.056263	1.139166	-1.22918	3.390846	3.060584
#2	.6325383	.5218432	.5181669	1.623424	-.244311	2.600366	.1203614
#3	-.021717	4.841739	.4749256	.6727072	-.784930	-1.80568	-1.65121
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0495658	-.131690	-1.06582	.4489239	1.864677	-.385734	1.971280
SDEV	1.464885	3.753300	1.19138	2.849333	3.628328	1.056597	.290034
%RSD	2955.435	2850.104	111.7809	634.7029	194.5821	273.9188	14.71297
#1	1.330828	-4.30919	.3056083	3.725258	3.220978	.4470250	1.642403
#2	-1.54745	2.956385	-1.84523	-1.44986	4.619470	-1.57431	2.190485
#3	.3653161	.9577323	-1.65782	-.928623	-2.24642	-.029920	2.080953
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.3397573	-.475620	4137.600
SDEV	.4566037	.128943	74.958
%RSD	134.3911	27.11043	1.811632
#1	-.186768	-.375233	4146.800
#2	.6267956	-.430587	4058.466
#3	.5792443	-.621040	4207.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 12:06:43
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	100.7532	47058.65	978.6085	1011.857	48076.82	972.6531	994.5067
SDEV	.3629	925.96	18.2651	17.921	905.05	20.5195	16.8888
%RSD	.3601723	1.967664	1.866434	1.771080	1.882515	2.109642	1.698213
#1	100.4223	46402.11	961.8074	995.9758	47195.79	953.7527	976.4644
#2	100.6962	48117.75	998.0502	1031.287	49004.12	994.4779	1009.938
#3	101.1413	46656.09	975.9680	1008.310	48030.56	969.7287	997.1176
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	967.8270	994.0353	24381.52	51647.23	49845.90	991.0005	49670.02
SDEV	26.7626	5.1715	538.66	829.37	1053.16	24.6028	826.44
%RSD	2.765229	.5202498	2.209304	1.605843	2.112842	2.482620	1.663863
#1	938.3166	988.5581	23815.96	50930.36	48757.49	964.8339	48912.38
#2	990.5253	998.8341	24888.49	52555.61	50859.87	1013.664	50551.32
#3	974.6389	994.7139	24440.09	51455.75	49920.36	994.5036	49546.36
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	969.8997	976.8849	987.8962	1041.333	966.8347	988.0039	996.2900
SDEV	18.5764	14.3030	19.7288	16.206	14.8720	13.7975	23.5715
%RSD	1.915291	1.464143	1.997052	1.556305	1.538213	1.396502	2.365932
#1	952.7167	962.3541	971.4215	1024.781	956.9675	975.3890	970.4814
#2	989.6106	990.9486	1009.759	1057.170	983.9401	1002.739	1016.681
#3	967.3716	977.3520	982.5077	1042.046	959.5964	985.8839	1001.707
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1013.305	965.5404	967.4781	990.5949	986.7077	1015.724	981.1286
SDEV	12.238	19.5001	12.6896	17.8143	12.2231	18.165	16.0013
%RSD	1.207775	2.019608	1.311618	1.798342	1.238776	1.788379	1.630912
#1	1001.893	950.4524	960.2174	971.8068	977.1749	999.5242	966.6156
#2	1026.229	987.5592	982.1306	1007.242	1000.488	1035.362	998.2883
#3	1011.792	958.6097	960.0863	992.7363	982.4603	1012.284	978.4819
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1008.375	987.1732	4553.266
SDEV	21.810	19.0504	62.428
%RSD	2.162901	1.929789	1.371050
#1	986.9888	969.5840	4602.333
#2	1030.586	1007.408	4482.999
#3	1007.550	984.5276	4574.466
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 12:13:53
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2510842	13.13903	.0575934	.0674903	377.6646	.3193062	1.124754
SDEV	.2523778	3.43020	.0507050	.1143834	1.1996	.1838733	.657758
%RSD	100.5152	26.10695	88.03961	169.4811	.3176439	57.58527	58.48016
#1	-.034239	17.06909	.1016419	.1949678	379.0324	.4795547	1.788112
#2	.4451039	11.60092	.0689726	-.026176	377.1698	.3598040	.4727429
#3	.3423876	10.74709	.0021656	.0336794	376.7914	.1185598	1.113407
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1810234	-.161571	7.505085	-1436.59	9.011091	.1635744	10.36525
SDEV	.4265890	.051938	11.38575	1.94	1.500297	.1399281	17.71045
%RSD	235.6541	32.14539	151.7071	.1348286	16.64945	85.54403	170.8636
#1	.2731004	-.123871	19.45225	-1436.05	7.532085	.0108667	-5.08507
#2	.5540547	-.220813	6.283798	-1434.98	10.53181	.2856465	29.69324
#3	-.284085	-.140028	-3.22079	-1438.74	8.969378	.1942100	6.487599
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.497198	4.133462	-.052071	.9724162	.3775463	.7435644	4.262975
SDEV	.260518	1.134866	.327361	.3122323	.5434890	.2028525	.199308
%RSD	52.39712	27.45557	628.6851	32.10892	143.9529	27.28109	4.675331
#1	-.796100	2.880964	.2011912	.9047446	.8128110	.7860093	4.297583
#2	-.318375	5.093412	.0643185	1.312935	-.231607	.9218363	4.048629
#3	-.377119	4.426010	-.421722	.6995690	.5514351	.5228478	4.442712
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7853864	.7171751	.2054370	-2.40085	2.310866	-1.92924	.2330792
SDEV	.7922716	.3441196	.9172630	4.09509	2.299419	2.77047	1.347915
%RSD	100.8767	47.98265	446.4936	170.5682	99.50467	143.6037	578.3077
#1	1.385133	.8145571	.8093556	-.412864	1.381964	.7030109	-.140191
#2	-.112753	1.002109	-.850069	-7.11044	4.929426	-1.67092	1.728293
#3	1.083779	.3348588	.6570247	.3207538	.6212076	-4.81983	-.888864
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.814538	.0379352	4735.400
SDEV	.638106	.0487537	54.712
%RSD	35.16631	128.5184	1.155386
#1	2.540200	.0253511	4672.733
#2	1.562343	-.003293	4773.667
#3	1.341071	.0917473	4759.800
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-04 OPERATOR:
RUN TIME: 06/11/10 12:21:02
COMMENT: SDG:1005078 CLIENTID:SDZ-WN13 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4793426	22.71951	.8227835	.6555187	27882.15	.8374965	2.717795
SDEV	.8735917	9.08558	.0844019	.1427013	296.60	.2338528	.176882
%RSD	182.2479	39.99019	10.25810	21.76921	1.063767	27.92284	6.508275
#1	1.472267	12.38651	.9189727	.4988200	28223.36	.9728376	2.591776
#2	-.171194	26.31453	.7611092	.6897345	27737.03	.5674669	2.920004
#3	.1369550	29.45749	.7882685	.7780017	27686.04	.9721851	2.641605
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.472042	-.086171	L-227.544	36822.65	89652.07	-1.80102	686911.8
SDEV	.290803	.094672	9.250	348.95	314.43	.11412	2455.5
%RSD	61.60521	109.8649	4.065162	.9476559	.3507222	6.336422	.3574663
#1	-.630462	-.123871	L-238.205	36484.78	89876.66	-1.91307	684602.1
#2	-.136427	-.156185	L-222.778	36801.45	89786.83	-1.80508	686642.4
#3	-.649238	.0215427	L-221.649	37181.71	89292.72	-1.68493	689490.8
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7590668	2.413158	.5125727	1.863860	.1820438	2.582237	2.144994
SDEV	.5024962	2.083920	.8178425	.120278	.4282583	.443700	1.212928
%RSD	66.19921	86.35654	159.5564	6.453156	235.2502	17.18278	56.54692
#1	.1836302	4.803331	1.456934	2.002693	-.202201	3.052337	1.933345
#2	.9823103	.9771833	.0385471	1.791168	.6437437	2.523608	3.449818
#3	1.111260	1.458960	.0422375	1.797718	.1045889	2.170766	1.051820
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.16433	5.449185	-2.45033	3.934620	1.904310	-.569117	1.576388
SDEV	2.46452	8.512585	4.82761	6.728169	2.706377	4.643741	.167349
%RSD	211.6696	156.2176	197.0188	170.9992	142.1185	815.9556	10.61597
#1	-4.00897	15.08777	-7.83845	11.49126	-1.16353	4.568906	1.706272
#2	.1882383	-1.03965	1.481429	1.718703	2.922708	-1.80964	1.387538
#3	.3277567	2.299437	-.993961	-1.40611	3.953749	-4.46661	1.635354
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.138779	-1.15074	4392.866
SDEV	.673374	.12905	36.203
%RSD	59.13126	11.21491	.8241293
#1	1.739161	-1.29161	4429.333
#2	1.266475	-1.03821	4392.333
#3	.4106991	-1.12241	4356.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-07 OPERATOR:
RUN TIME: 06/11/10 12:31:06
COMMENT: SDG:1005078 CLIENTID:SDZ-WN14 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2510842	122.2038	.9577448	.7410747	32113.22	.8377402	3.267811
SDEV	.1425473	5.3944	.0285682	.0883937	122.19	.1990248	.255523
%RSD	56.77271	4.414305	2.982861	11.92777	.3804843	23.75734	7.819379
#1	.1369550	128.4021	.9510869	.8327021	31972.13	.6592221	3.061801
#2	.4108651	119.6390	.9330934	.6563154	32182.92	1.052336	3.553742
#3	.2054325	118.5702	.9890540	.7342067	32184.59	.8016623	3.187891
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2356220	-.296213	L-104.214	33706.11	87434.59	2.391937	662861.8
SDEV	.3762994	.049361	1.445	242.69	108.17	.088006	1935.1
%RSD	159.7047	16.66388	1.386406	.7200276	.1237102	3.679268	.2919278
#1	-.031268	-.285441	L-103.904	33898.39	87494.59	2.417446	664302.7
#2	.6660158	-.350070	L-102.949	33786.54	87499.46	2.293994	663620.2
#3	.0721177	-.253128	L-105.788	33433.42	87309.73	2.464370	660662.3
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.119901	2.009813	.4949039	2.212902	-.297285	.3925937	.6282892
SDEV	.583958	1.670477	.4160359	.215940	.079867	.8678790	1.241175
%RSD	487.0334	83.11602	84.06397	9.758226	26.86552	221.0629	197.5484
#1	-.367250	2.373949	.3267069	2.000934	-.262504	-.240243	2.039197
#2	.5470234	3.468186	.9687051	2.432606	-.388644	1.381955	.1408277
#3	-.539476	.1873041	.1892997	2.205166	-.240705	.0360691	-.295157
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.560023	2.772182	-1.83242	1.422158	-.124121	-1.54213	1.012826
SDEV	.900751	.658265	.42913	5.490751	2.044135	2.31943	.730516
%RSD	57.73957	23.74536	23.41856	386.0858	1646.887	150.4041	72.12650
#1	1.160679	2.111281	-1.45034	-4.88703	2.076947	-4.14433	.2369318
#2	2.591407	3.427778	-2.29670	5.118938	-.486441	.3077254	1.687382
#3	.9279834	2.777489	-1.75023	4.034566	-1.96287	-.789779	1.114163
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.098772	.9865680	4465.622
SDEV	1.170814	.1126375	26.023
%RSD	1185.370	11.41711	.5827360
#1	.3896237	.8875266	4440.933
#2	.7487756	.9630796	4463.133
#3	-1.43472	1.109098	4492.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-08 OPERATOR:
RUN TIME: 06/11/10 12:38:14
COMMENT: SDG:1005078 CLIENTID:SDZ-WN11 1:15
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1255421	147.6039	1.246958	.3674574	33027.21	.9456162	2.864790
SDEV	.1296259	4.3201	.007006	.1264670	121.00	.2338649	.430896
%RSD	103.2529	2.926792	.5618281	34.41678	.3663589	24.73148	15.04109
#1	.0342388	142.6177	1.241088	.2222068	33164.94	.9405419	2.370547
#2	.2739101	150.2247	1.254714	.4531439	32978.64	1.181977	3.161549
#3	.0684775	149.9693	1.245073	.4270215	32938.04	.7143297	3.062273
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4323884	-.086171	L-137.602	33400.89	82668.08	9.462906	633893.8
SDEV	.4398588	.153563	17.363	81.27	584.64	.054876	554.6
%RSD	101.7277	178.2069	12.61795	.2433190	.7072159	.5799014	.0874861
#1	-.023141	-.091557	L-151.258	33423.57	83039.95	9.526247	634288.6
#2	.4656132	-.236970	L-143.486	33468.41	82970.09	9.432724	634132.9
#3	.8546927	.0700137	L-118.062	33310.69	81994.20	9.429746	633259.8
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.099714	1.358311	.4696245	2.406097	1.469973	1.463542	2.015053
SDEV	.190504	1.240336	.0726048	.369556	.469263	1.719626	1.262687
%RSD	17.32302	91.31458	15.46019	15.35914	31.92321	117.4975	62.66273
#1	.9607619	1.203023	.4232635	2.192354	.9641815	-.495931	2.832107
#2	1.021505	.2029317	.5532984	2.193114	1.554529	2.164955	.5607266
#3	1.316875	2.668980	.4323115	2.832823	1.891209	2.721602	2.652325
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.138402	3.472511	.4675453	1.089120	1.647812	-1.52708	.8719448
SDEV	.934103	1.391678	1.137622	1.608602	2.056934	.75351	1.047093
%RSD	29.76366	40.07698	243.3180	147.6974	124.8281	49.34330	120.0871
#1	2.566999	3.412632	-.260870	-.468215	-.512429	-.728107	.3232549
#2	2.631845	4.893163	-.114948	2.744504	1.872952	-2.22492	.2132254
#3	4.216362	2.111740	1.778454	.9910719	3.582914	-1.62823	2.079354
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	-.191797	4.576214	4540.200
SDEV	.700764	.287795	6.469
%RSD	365.3674	6.288937	.1424912
#1	.6055008	4.898721	4536.667
#2	-.470832	4.345549	4536.267
#3	-.710060	4.484373	4547.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005078-03 OPERATOR:
RUN TIME: 06/11/10 12:46:27
COMMENT: SDG:1005078 CLIENTID:SDZ-WN15 1:20
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4793426	52.35229	1.000686	.7830786	27562.26	.4945003	2.279079
SDEV	.7509146	5.57755	.080490	.1525608	300.28	.3425598	.084226
%RSD	156.6551	10.65388	8.043452	19.48218	1.089448	69.27393	3.695601
#1	.1711938	55.09638	.9481392	.7318898	27261.34	.0994851	2.181839
#2	1.335311	56.02621	1.093350	.9546509	27861.89	.6741357	2.326198
#3	-.068478	45.93431	.9605683	.6626949	27563.54	.7098802	2.329200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3356573	-.220813	L-173.507	30332.56	72421.47	7.535906	572082.3
SDEV	.3569201	.140854	14.039	48.80	856.50	.093769	773.7
%RSD	106.3347	63.78874	8.091060	.1608942	1.182659	1.244293	.1352389
#1	.6751012	-.156185	L-158.289	30384.99	72066.91	7.543465	572725.1
#2	.3683591	-.382384	L-185.952	30324.24	73398.31	7.625667	572298.2
#3	-.036488	-.123871	L-176.280	30288.45	71799.18	7.438587	571223.6
ERRORS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9662030	2.156131	.5407350	2.470143	-.603819	.5980627	1.974161
SDEV	.7905398	2.832081	1.061307	.233372	1.507437	.6873521	1.082701
%RSD	81.81922	131.3501	196.2713	9.447730	249.6503	114.9298	54.84364
#1	1.428276	-.398638	-.066454	2.705431	.4721316	-.029436	3.130389
#2	.0533897	5.201437	1.766210	2.466264	.0431578	.4909363	.9842274
#3	1.416943	1.665593	-.077552	2.238734	-2.32675	1.332688	1.807866
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9721429	1.214423	-1.51435	.3398241	.7242170	1.063035	2.625492
SDEV	1.256552	6.780957	3.90067	7.603150	3.886459	.866146	3.106389
%RSD	129.2559	558.3688	257.5810	2237.378	536.6429	81.47865	118.3165
#1	1.409680	-4.48836	2.945869	-5.35478	2.626452	.1037275	.7283440
#2	1.951433	8.712326	-4.28769	8.973879	-3.74694	1.297725	6.210404
#3	-.444684	-.580698	-3.20122	-2.59963	3.293141	1.787651	.9377289
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.8226548	-.026912	4357.111
SDEV	1.054901	.443648	26.288
%RSD	128.2313	1648.504	.6033299
#1	-.208569	-.247335	4327.800
#2	1.899738	.4837785	4364.933
#3	.7767953	-.317179	4378.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 12:53:36
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	99.76033	46873.67	982.9749	996.3457	47090.00	959.3071	970.7597
SDEV	3.11880	688.89	9.4064	9.4546	933.35	15.5632	14.0399
%RSD	3.126288	1.469677	.9569293	.9489260	1.982062	1.622337	1.446276
#1	97.40927	47315.64	986.2665	989.2062	46394.55	947.0141	955.6509
#2	98.57339	47225.46	990.2932	992.7628	46724.69	954.1013	973.2238
#3	103.2983	46079.91	972.3651	1007.068	48150.75	976.8059	983.4044
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	935.0664	986.8132	23932.94	51886.59	49156.25	960.2523	49808.88
SDEV	20.0952	12.2451	326.54	1736.19	22.44	14.1980	844.62
%RSD	2.149070	1.240872	1.364412	3.346125	.0456556	1.478572	1.695717
#1	920.1696	976.5534	23705.33	53280.99	49137.88	946.5702	50492.25
#2	927.1075	983.5172	23786.40	52436.82	49149.60	959.2711	50069.80
#3	957.9220	1000.369	24307.08	49941.95	49181.27	974.9154	48864.59
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	959.9627	972.4294	965.2200	1021.911	957.8195	993.6445	993.2507
SDEV	11.1554	8.1854	8.0635	34.177	10.2826	1.3591	5.3748
%RSD	1.162063	.8417485	.8354025	3.344436	1.073539	.1367767	.5411361
#1	952.9485	979.0767	957.0875	998.2011	947.7193	994.2360	988.9356
#2	954.1133	974.9249	965.3599	1006.445	957.4639	992.0899	991.5452
#3	972.8262	963.2867	973.2126	1061.088	968.2752	994.6076	999.2714
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1004.995	958.5100	957.4711	1003.628	988.6576	1009.454	977.8034
SDEV	5.868	4.6128	13.1399	11.560	4.6001	5.511	10.2816
%RSD	.5839068	.4812430	1.372354	1.151819	.4652845	.5459715	1.051496
#1	1011.728	954.4108	944.3745	1016.028	983.3537	1006.044	987.4110
#2	1000.970	957.6141	957.3849	993.1484	991.5589	1006.505	979.0395
#3	1002.286	963.5049	970.6539	1001.708	991.0602	1015.812	966.9597
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1003.047	976.1233	4515.578
SDEV	12.893	2.9463	152.857
%RSD	1.285346	.3018409	3.385104
#1	992.8697	974.7191	4392.267
#2	998.7259	979.5092	4467.866
#3	1017.545	974.1419	4686.600
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 13:00:45
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1483680	26.18124	.1237452	.3587892	382.1772	.3599121	1.376879
SDEV	.2659480	1.48424	.0385983	.0242566	.5182	.0563363	.182331
%RSD	179.2489	5.669082	31.19176	6.760691	.1355890	15.65279	13.24237
#1	.4451039	24.53514	.1536228	.3594568	382.6437	.4042354	1.196688
#2	.0684775	26.59112	.1374478	.3342056	382.2684	.3789858	1.372672
#3	-.068478	27.41747	.0801651	.3827051	381.6194	.2965150	1.561278
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.6488274	-.064628	10.52826	-1431.27	14.27772	.2905615	35.93100
SDEV	.4077359	.116883	7.27834	1.71	.35492	.0919786	71.11356
%RSD	62.84196	180.8538	69.13146	.1192376	2.485800	31.65546	197.9170
#1	1.116464	.0700137	13.74363	-1429.30	13.90849	.3816545	118.0459
#2	.3677237	-.140028	15.64518	-1432.23	14.61634	.1977222	-5.13272
#3	.4622952	-.123871	2.195972	-1432.28	14.30833	.2923079	-5.12014
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.073446	5.135817	.2350186	1.318857	.0352542	1.267158	3.531324
SDEV	.741984	.751583	.2520933	.001716	.6701775	1.084279	1.745060
%RSD	69.12170	14.63415	107.2653	.1301124	1900.987	85.56780	49.41660
#1	.5335516	5.223814	.4358016	1.316960	.6192573	1.233979	4.745415
#2	1.919524	5.839527	-.047899	1.319308	.1829608	.1998492	4.317018
#3	.7672635	4.344109	.3171529	1.320302	-.696455	2.367646	1.531539
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.202164	1.173675	-.535668	.1465232	1.824071	-.375867	-.041074
SDEV	.564627	.767188	.640676	2.447264	.457412	2.686223	.643695
%RSD	25.63965	65.36632	119.6033	1670.224	25.07644	714.6743	1567.168
#1	2.838899	1.965142	-.055226	.5019584	1.596891	2.169499	.3777508
#2	1.762428	1.122563	-.288705	-2.45902	1.524723	-3.18368	.2812876
#3	2.005165	.4333213	-1.26307	2.396634	2.350599	-.113417	-.782260
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.400327	.1935395	4706.844
SDEV	.287889	.0618259	24.459
%RSD	11.99374	31.94483	.5196505
#1	2.726709	.2630034	4734.466
#2	2.291787	.1445419	4698.133
#3	2.182487	.1730731	4687.933
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-BLK1 OPERATOR:
RUN TIME: 06/11/10 13:11:58
COMMENT: SDG:1005132 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4108651	22.55153	.0756509	.6745537	368.6585	.0453831	.5370901
SDEV	.6172480	6.55666	.0973351	.0765827	1.0415	.1578695	.0782114
%RSD	150.2313	29.07412	128.6634	11.35309	.2825238	347.8593	14.56207
#1	1.095640	18.65244	.1817374	.5935766	368.3323	-.044048	.5796303
#2	.2396713	18.88079	.0547534	.6842698	367.8191	.2276644	.5848111
#3	-.102716	30.12137	-.009538	.7458147	369.8241	-.047467	.4468289
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9558638	-.193885	10.29296	-1434.88	3.190928	.1445718	62.03429
SDEV	.4250643	.024680	10.22501	8.91	4.360797	.0535696	135.2796
%RSD	44.46913	12.72934	99.33988	.6207411	136.6623	37.05397	218.0723
#1	1.242117	-.188499	21.58599	-1424.61	8.024890	.2064247	190.0066
#2	1.158026	-.220813	1.662905	-1439.64	1.995077	.1130485	75.62317
#3	.4674489	-.172342	7.629983	-1440.40	-.447183	.1142421	-79.5269
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7194870	-.345749	.3476121	1.264066	-.276358	.8942416	2.575957
SDEV	.5952476	2.345579	.4535668	.244500	1.029641	.7439883	.441095
%RSD	82.73222	678.4055	130.4807	19.34232	372.5745	83.19769	17.12356
#1	1.311219	2.050945	.8492821	1.546389	.0724144	1.470664	2.082203
#2	.1207847	-2.63663	-.033485	1.122683	-1.43509	.0543770	2.714571
#3	.7264577	-.451560	.2270395	1.123125	.5335969	1.157684	2.931095
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.679351	-.664051	-.085483	-3.91217	3.291164	.4031785	1.237227
SDEV	1.824083	.961132	1.362301	2.07978	.105426	2.843251	2.608059
%RSD	108.6183	144.7377	1593.646	53.16167	3.203309	705.2089	210.7988
#1	3.772774	-1.40946	.8095938	-2.42326	3.412058	2.959599	4.043170
#2	.8338005	-1.00342	-1.65329	-6.28844	3.218342	-2.65902	.7813487
#3	.4314796	.4207272	.5872421	-3.02481	3.243092	.9089548	-1.11284
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.5702825	.1243950	4502.555
SDEV	.5902884	.1390147	49.813
%RSD	103.5081	111.7527	1.106330
#1	1.193205	.2435538	4558.133
#2	.4984387	.1579605	4487.600
#3	.0192041	-.028329	4461.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-BS1 OPERATOR:
RUN TIME: 06/11/10 13:19:06
COMMENT: SDG:1005132 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	764.6770	78468.20	1456.071	1283.391	37942.18	2018.358	614.0283
SDEV	10.6187	151.76	16.130	16.792	494.95	19.643	5.4156
%RSD	1.388648	.1933999	1.107762	1.308406	1.304486	.9732205	.8819862
#1	776.7405	78411.92	1437.446	1302.634	38500.26	2034.602	618.2333
#2	756.7451	78352.62	1465.399	1271.706	37556.44	1996.526	607.9174
#3	760.5455	78640.05	1465.368	1275.833	37769.84	2023.944	615.9342
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1110.000	108000.0	1840.000	1690.000	52200.00	2770.000	811.0000
LOW	490.0000	43900.00	1280.000	1170.000	34200.00	1880.000	561.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	597.7969	1336.640	155901.8	26554.20	19761.64	2823.817	3920.238
SDEV	3.6580	7.507	1019.0	308.52	124.89	17.771	204.908
%RSD	.6119192	.5616048	.6536346	1.161833	.6319567	.6293122	5.226930
#1	595.9371	1344.934	156146.2	26208.50	19683.87	2835.903	4093.291
#2	595.4426	1330.312	154782.7	26652.54	19695.36	2803.413	3693.973
#3	602.0112	1334.674	156776.3	26801.55	19905.69	2832.134	3973.451
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	738.0000	1540.000	214000.0	30600.00	27300.00	3650.000	6580.000
LOW	477.0000	1080.000	74200.00	17000.00	17100.00	2430.000	2540.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	443.8936	1347.146	729.2440	1023.536	645.5066	681.0490	778.5426
SDEV	4.9065	9.609	4.4753	17.647	6.9370	3.8274	3.4650
%RSD	1.105333	.7132813	.6136919	1.724108	1.074663	.5619902	.4450616
#1	448.7620	1348.644	732.4460	1041.409	638.6358	676.6414	776.7549
#2	438.9499	1336.876	724.1303	1006.125	652.5080	683.5342	776.3365
#3	443.9690	1355.918	731.1555	1023.074	645.3760	682.9714	782.5363
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	1970.000	930.0000	1410.000	918.0000	1030.000	1730.000
LOW	404.0000	1190.000	517.0000	905.0000	619.0000	626.0000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	714.5417	625.7889	655.3480	659.4512	691.8287	1596.978	-1.16248
SDEV	4.9606	9.5135	15.0880	9.8692	9.9980	17.059	3.62288
%RSD	.6942349	1.520236	2.302285	1.496571	1.445151	1.068224	311.6515
#1	719.6230	633.9368	640.9789	667.4960	681.2043	1607.178	2.676131
#2	709.7113	615.3342	671.0645	648.4387	701.0525	1577.284	-4.52194
#3	714.2909	628.0958	654.0005	662.4189	693.2291	1606.472	-1.64162
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	NOCHECK
HIGH	973.0000					2280.000	
LOW	645.0000					1220.000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	576.9078	3420.810	4734.533
SDEV	6.3301	31.034	61.324
%RSD	1.097243	.9072162	1.295257
#1	577.3986	3455.389	4802.933
#2	570.3466	3411.664	4716.200
#3	582.9782	3395.376	4684.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	705.0000	4510.000	
LOW	463.0000	1110.000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-01 OPERATOR:
RUN TIME: 06/11/10 13:26:14
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2853230	50447.83	49.75333	1.027944	604.6298	.8355620	3.124728
SDEV	.2767486	511.50	.15787	.245144	3.6290	.1250909	.319346
%RSD	96.99484	1.013922	.3173002	23.84801	.6002057	14.97087	10.21995
#1	.5820589	50337.64	49.88504	1.277414	603.1782	.9490528	3.378381
#2	.0342388	51005.44	49.79660	.7873681	608.7599	.7014370	2.766111
#3	.2396713	50000.40	49.57834	1.019049	601.9512	.8561962	3.229691
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	50.42947	7.593812	7299.275	1297.905	1178.461	62.79900	441.7452
SDEV	.65967	.451339	8.815	4.786	6.731	.33586	36.2779
%RSD	1.308096	5.943509	.1207617	.3687221	.5712097	.5348123	8.212400
#1	51.18367	7.502255	7297.433	1300.731	1184.476	62.44151	459.3297
#2	50.14479	8.083910	7308.865	1300.603	1179.719	63.10794	400.0261
#3	49.95995	7.195271	7291.527	1292.379	1171.190	62.84753	465.8796
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.748769	.0330205	55.95213	16.34109	26.13706	3.183060	12.33562
SDEV	.401868	2.565280	.54626	.24081	.94816	1.563149	.67264
%RSD	5.186212	7768.752	.9762955	1.473646	3.627637	49.10838	5.452835
#1	8.203150	-2.59744	56.25679	16.14863	27.23078	1.655940	13.03889
#2	7.603136	.1687770	56.27811	16.26351	25.63304	4.779905	11.69849
#3	7.440023	2.527727	55.32149	16.61112	25.54736	3.113335	12.26949
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8561477	31.48020	23.46645	-17.7838	13.64805	18.66212	-.513503
SDEV	1.597057	2.66233	.09592	1.9768	2.88639	.95203	1.317286
%RSD	186.5398	8.457144	.4087692	11.11597	21.14871	5.101390	256.5294
#1	1.083285	34.55333	23.57193	-18.1188	11.52574	17.65752	.4667219
#2	-.842317	30.01365	23.44298	-19.5717	16.93475	18.77782	-2.01089
#3	2.327475	29.87363	23.38444	-15.6608	12.48366	19.55100	.0036641
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	7.373300	1003.165	4454.600
SDEV	.958928	13.040	28.047
%RSD	13.00540	1.299888	.6296104
#1	7.627145	999.0829	4425.667
#2	8.179766	1017.758	4456.466
#3	6.312989	992.6544	4481.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-DUP1 OPERATOR:
RUN TIME: 06/11/10 13:33:22
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2282584	46813.28	50.02202	1.077822	611.1262	.9331171	3.032454
SDEV	.2850947	217.25	1.05199	.173210	2.0196	.2599994	.143023
%RSD	124.9000	.4640847	2.103052	16.07037	.3304768	27.86354	4.716406
#1	.5478201	46719.20	50.94578	1.234922	609.3732	.8122246	3.197311
#2	.1369550	46658.92	48.87700	.8920739	610.6705	.7555749	2.958521
#3	.0000000	47061.71	50.24327	1.106471	613.3347	1.231552	2.941529
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	46.92178	9.995826	7127.110	1168.668	1150.067	64.05687	407.0534
SDEV	.69565	.097390	76.651	12.745	9.532	.69899	68.4823
%RSD	1.482569	.9743040	1.075489	1.090585	.8288310	1.091209	16.82391
#1	46.22459	10.00660	7060.597	1168.718	1146.617	63.24995	454.5914
#2	47.61588	9.893498	7109.796	1155.898	1142.739	64.47633	438.0104
#3	46.92487	10.08738	7210.938	1181.388	1160.843	64.44432	328.5585
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.938744	-4.78240	55.78483	16.36978	27.85064	1.840749	12.24944
SDEV	.451001	2.29860	.86828	.42561	.58064	2.552256	.98031
%RSD	5.681009	48.06376	1.556477	2.599946	2.084836	138.6531	8.002912
#1	7.429531	-6.85765	54.92558	16.19323	27.84333	-.877933	11.19224
#2	8.098862	-5.17779	55.76704	16.06086	28.43491	2.214907	13.12841
#3	8.287840	-2.31175	56.66186	16.85525	27.27370	4.185274	12.42767
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.440912	34.55700	24.49942	-19.6063	12.54547	16.28431	-.590633
SDEV	1.831311	1.74510	.81638	3.7669	2.62860	1.65568	1.453007
%RSD	75.02572	5.049905	3.332238	19.21284	20.95256	10.16731	246.0082
#1	2.528529	36.21316	23.66160	-23.7925	10.55944	16.21388	-2.24895
#2	.5673643	34.72300	25.29252	-16.4902	11.55071	17.97407	.4592583
#3	4.226842	32.73484	24.54414	-18.5363	15.52627	14.66497	.0177891
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	5.545414	1048.599	4425.088
SDEV	.690639	10.021	22.386
%RSD	12.45424	.9556801	.5058937
#1	6.301664	1056.522	4411.733
#2	5.386485	1037.333	4450.933
#3	4.948094	1051.940	4412.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-MS1 OPERATOR:
RUN TIME: 06/11/10 13:40:30
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	45.93700	73943.55	2041.562	50.04495	676.4158	47.96555	483.6564
SDEV	.13837	336.18	13.993	.29660	.4881	.29106	2.1148
%RSD	.3012243	.4546378	.6854248	.5926714	.0721632	.6068132	.4372459
#1	45.77722	74050.19	2043.638	50.28375	676.7340	48.26573	484.5184
#2	46.01689	73566.99	2054.402	49.71294	675.8538	47.94636	481.2467
#3	46.01689	74213.48	2026.647	50.13817	676.6595	47.68456	485.2040
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	252.1235	255.9276	10672.14	2164.200	1669.413	542.4842	525.1209
SDEV	1.6568	1.5320	30.55	12.195	8.906	2.8048	63.8035
%RSD	.6571237	.5985922	.2862959	.5634721	.5334713	.5170214	12.15025
#1	252.8012	254.2527	10682.84	2176.934	1673.059	543.4049	594.7426
#2	250.2354	256.2723	10637.67	2152.627	1659.263	539.3348	511.1786
#3	253.3341	257.2579	10695.90	2163.040	1675.917	544.7128	469.4414
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	477.7660	43.45468	553.6233	475.0767	44.01078	12.62429	357.3055
SDEV	1.3817	2.18994	5.0029	1.9160	.93014	.71236	1.0931
%RSD	.2892009	5.039603	.9036683	.4032981	2.113442	5.642750	.3059343
#1	479.3573	45.10759	551.8731	475.3923	43.25077	13.13833	358.5381
#2	477.0705	44.28556	549.7306	473.0225	43.73356	11.81114	356.4539
#3	476.8702	40.97089	559.2662	476.8152	45.04802	12.92338	356.9245
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	35.88098	49.99727	41.01863	-10.3202	24.07661	955.3762	943.9103
SDEV	.93121	1.70818	.54346	7.1258	2.63669	5.8898	3.8627
%RSD	2.595278	3.416538	1.324913	69.04694	10.95125	.6164852	.4092273
#1	36.23832	48.54704	40.60318	-8.47841	23.92773	961.3888	946.1035
#2	34.82402	49.56461	40.81903	-18.1862	26.78458	949.6175	939.4503
#3	36.58059	51.88018	41.63366	-4.29617	21.51751	955.1224	946.1773
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	986.3782	1799.178	4400.355
SDEV	3.0133	16.274	30.693
%RSD	.3054936	.9045328	.6975142
#1	986.4633	1796.322	4367.066
#2	989.3481	1784.520	4427.533
#3	983.3232	1816.691	4406.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-MSD1 OPERATOR:
RUN TIME: 06/11/10 13:47:39
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	45.85711	68778.24	2012.926	49.49414	573.8360	48.03991	482.5443
SDEV	.69272	905.65	34.102	.43768	2.1623	.25059	3.0788
%RSD	1.510599	1.316762	1.694139	.8842968	.3768170	.5216237	.6380289
#1	45.05821	69810.89	2044.435	49.98680	571.6183	47.98522	485.9347
#2	46.22232	68119.02	1976.719	49.15021	573.9514	47.82118	481.7754
#3	46.29080	68404.80	2017.623	49.34541	575.9384	48.31332	479.9228
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	253.2523	251.7752	10267.45	1984.311	1566.005	541.4554	367.0397
SDEV	.6755	.4387	29.14	61.464	10.024	1.8450	49.6439
%RSD	.2667189	.1742505	.2838096	3.097506	.6401043	.3407458	13.52548
#1	252.5030	251.8291	10288.26	2055.273	1575.555	542.8094	400.7837
#2	253.8144	251.3121	10234.15	1949.906	1555.566	539.3540	310.0364
#3	253.4395	252.1846	10279.93	1947.753	1566.893	542.2028	390.2989
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	475.2339	37.85423	545.6666	472.7493	45.62495	11.17780	360.9124
SDEV	4.3693	2.52445	2.3677	2.5926	.65981	.71935	4.2685
%RSD	.9194049	6.668878	.4339023	.5484043	1.446154	6.435502	1.182689
#1	476.8688	38.20288	548.2208	471.2224	46.05064	11.98419	365.5117
#2	470.2829	35.17357	545.2340	471.2826	44.86490	10.60209	357.0782
#3	478.5500	40.18623	543.5451	475.7427	45.95932	10.94714	360.1474
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	35.95675	51.29232	42.79212	-9.29536	21.39630	945.2283	933.4174
SDEV	1.18787	1.25374	.56441	1.46821	1.34823	6.6402	9.8922
%RSD	3.303616	2.444301	1.318950	15.79514	6.301223	.7024953	1.059781
#1	37.20474	51.34546	43.40375	-9.82305	22.86868	947.3920	943.0208
#2	34.83987	50.01285	42.29140	-10.4268	21.09804	937.7761	923.2597
#3	35.82564	52.51864	42.68121	-7.63623	20.22217	950.5167	933.9716
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	980.6586	1801.164	4403.777
SDEV	4.9615	2.254	58.550
%RSD	.5059352	.1251261	1.329550
#1	979.5645	1799.098	4336.533
#2	976.3355	1800.826	4431.333
#3	986.0759	1803.567	4443.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005132-01 OPERATOR:
RUN TIME: 06/11/10 13:54:47
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3309747	10441.24	9.781719	.5669050	419.4008	.0515614	.7244618
SDEV	.0861656	95.28	.116411	.0484846	.4979	.2646262	.4070801
%RSD	26.03391	.9124954	1.190090	8.552517	.1187230	513.2249	56.19069
#1	.3423876	10374.63	9.892461	.5555081	419.1638	.2727210	.5066714
#2	.4108651	10550.37	9.792332	.6200728	419.9729	-.241620	1.194106
#3	.2396713	10398.71	9.660365	.5251340	419.0656	.1235833	.4726083
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.97386	3.387594	1514.035	-874.596	260.2791	13.05238	118.2357
SDEV	.18366	.323679	14.357	2.842	3.0450	.16979	66.8538
%RSD	1.673637	9.554830	.9482796	.3249195	1.169900	1.300848	56.54278
#1	11.16850	3.139853	1515.476	-872.567	263.6146	12.94106	194.2688
#2	10.94949	3.269109	1527.617	-873.376	259.5744	13.24781	68.65827
#3	10.80361	3.753820	1499.011	-877.844	257.6482	12.96828	91.78013
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.281050	1.538640	11.61206	4.182891	6.147445	1.617922	3.108334
SDEV	.555271	1.274504	.49600	.108133	1.139286	.624752	.861934
%RSD	24.34277	82.83318	4.271460	2.585131	18.53268	38.61446	27.72978
#1	2.188427	1.930205	12.17137	4.305071	6.927181	.9250709	2.130030
#2	2.876808	.1142936	11.22564	4.144089	4.839981	2.138367	3.755982
#3	1.777915	2.571421	11.43917	4.099513	6.675172	1.790327	3.438990
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.628756	7.601972	5.418631	-4.14825	4.494048	3.026207	.1642790
SDEV	1.033689	1.438729	1.301596	1.46853	1.338081	2.478940	.7045401
%RSD	63.46494	18.92574	24.02076	35.40128	29.77452	81.91573	428.8681
#1	.8265477	7.356169	6.710384	-4.15711	3.459724	1.615613	.8501351
#2	1.264446	6.301980	4.107410	-5.61233	6.005238	1.574467	-.557566
#3	2.795275	9.147768	5.438097	-2.67530	4.017182	5.888542	.2002674

ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.582982	202.3958	4570.533
SDEV	.832474	2.2729	39.246
%RSD	52.58896	1.122998	.8586658
#1	2.474936	201.4054	4597.667
#2	1.447368	204.9958	4525.533
#3	.8266408	200.7861	4588.400

ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052619-PS1 OPERATOR:
RUN TIME: 06/11/10 14:01:55
COMMENT: SDG:1005132 CLIENTID:SB85-1.5-2.5A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.98083	51071.72	348.8326	8.569596	614.4115	8.341044	78.32953
SDEV	.46233	364.72	3.4682	.175987	7.8390	.118594	1.85522
%RSD	3.306877	.7141247	.9942395	2.053626	1.275861	1.421817	2.368485
#1	13.52431	51472.64	352.8373	8.705284	605.9622	8.205004	76.42478
#2	14.44876	50759.61	346.8234	8.370744	621.4481	8.395485	78.43289
#3	13.96941	50982.91	346.8369	8.632760	615.8242	8.422644	80.13090
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	66.25549	52.53194	7567.552	1280.815	1190.480	86.56367	417.7677
SDEV	2.40455	1.08397	130.119	66.946	5.259	1.33484	26.2590
%RSD	3.629212	2.063444	1.719432	5.226837	.4417681	1.542030	6.285552
#1	63.66972	51.30401	7421.132	1352.934	1185.023	85.15645	404.6774
#2	68.42429	53.35595	7669.949	1220.654	1195.516	87.81188	447.9987
#3	66.67248	52.93587	7611.574	1268.856	1190.901	86.72266	400.6270
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	67.06089	9.036675	133.0602	46.82620	30.02864	10.05440	94.62142
SDEV	1.78908	2.130753	.9583	2.47432	1.05043	.70671	3.45456
%RSD	2.667840	23.57895	.7202235	5.284053	3.498092	7.028907	3.650928
#1	65.00507	8.113480	132.2264	43.97262	29.14871	10.80987	90.83242
#2	67.91267	11.47334	134.1072	48.37581	29.74562	9.943881	95.43584
#3	68.26492	7.523204	132.8471	48.13017	31.19158	9.409464	97.59601
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.90356	33.13559	28.47447	-17.8017	23.95887	16.54485	-1.19736
SDEV	1.64439	1.44515	2.08796	.8752	1.28566	.81402	1.02298
%RSD	10.33973	4.361316	7.332759	4.916668	5.366127	4.920054	85.43622
#1	14.00525	32.93888	27.25337	-17.7891	25.08517	15.62684	-1.79891
#2	16.81650	34.66901	27.28466	-18.6831	24.23329	16.82899	-.016193
#3	16.88893	31.79887	30.88537	-16.9328	22.55815	17.17870	-1.77696
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	7.139598	1018.853	4494.844
SDEV	.435779	4.151	94.849
%RSD	6.103688	.4073839	2.110173
#1	7.438541	1022.181	4395.466
#2	7.340665	1014.202	4584.400
#3	6.639587	1020.177	4504.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-02 OPERATOR:
RUN TIME: 06/11/10 14:09:03
COMMENT: SDG:1005132 CLIENTID:SB78-3.5-4.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.136955	131438.4	143.2216	2.385634	1239.947	3.998475	-.534071
SDEV	.171194	859.8	1.3371	.449218	30.652	.363830	.530958
%RSD	125.0000	.6541103	.9335886	18.83012	2.472056	9.099208	99.41705
#1	-.136955	131795.0	144.6920	2.896308	1206.078	4.373570	-.827488
#2	.0342388	130457.7	142.8944	2.209073	1247.983	3.974787	-.853567
#3	-.308149	132062.4	142.0785	2.051522	1265.781	3.647069	.0788412
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	184.8572	11.07835	83649.30	6842.796	5130.193	89.89091	523.7581
SDEV	4.9579	.83710	1384.86	190.615	51.615	1.34295	82.0179
%RSD	2.681998	7.556225	1.655550	2.785636	1.006111	1.493980	15.65951
#1	179.4426	10.13585	82229.91	7062.343	5078.453	88.41283	447.8733
#2	185.9547	11.36379	83721.16	6746.569	5130.444	90.22375	512.6284
#3	189.1744	11.73540	84996.82	6719.476	5181.683	91.03614	610.7725
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	18.10890	3.653768	233.6686	51.55130	57.15011	3.928727	7.577508
SDEV	.85925	5.072633	5.3867	3.35746	2.12750	2.168136	5.760986
%RSD	4.744878	138.8330	2.305271	6.512847	3.722661	55.18673	76.02745
#1	17.24986	9.211075	228.2508	47.73255	57.23096	1.929468	1.485208
#2	18.10849	-.727653	233.7312	52.88155	54.98333	3.623352	12.93707
#3	18.96835	2.477882	239.0237	54.03980	59.23604	6.233361	8.310247
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.17735	54.62999	58.40496	-9.81567	10.78787	20.52097	.4816663
SDEV	5.44811	3.58717	1.67393	3.00062	3.11350	1.53008	.3344927
%RSD	35.89628	6.566307	2.866078	30.56971	28.86113	7.456163	69.44492
#1	8.893585	56.31931	57.68292	-8.72540	7.246098	20.53667	.8620542
#2	18.57915	50.51005	57.21323	-13.2090	12.02419	18.98311	.3494739
#3	18.05933	57.06061	60.31873	-7.51261	13.09333	22.04314	.2334708
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	10.82402	1034.566	4397.733
SDEV	.99728	18.688	95.606
%RSD	9.213602	1.806389	2.173994
#1	11.32544	1013.264	4287.600
#2	9.675529	1042.227	4446.200
#3	11.47109	1048.206	4459.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 14:16:12
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	101.3696	46975.37	960.5209	998.0891	47894.27	960.7026	982.9475
SDEV	.4113	258.65	11.9561	1.6373	56.23	6.0712	3.1322
%RSD	.4057837	.5506145	1.244751	.1640391	.1174029	.6319542	.3186514
#1	101.3467	46823.99	957.4420	996.6041	47925.88	964.3896	986.5073
#2	100.9701	47274.03	950.4055	997.8185	47829.35	953.6954	981.7212
#3	101.7918	46828.09	973.7154	999.8448	47927.58	964.0230	980.6141
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	942.5823	995.7857	24089.39	51401.16	49492.39	966.5615	49923.75
SDEV	10.6244	.8584	146.11	136.45	367.59	8.5613	149.99
%RSD	1.127153	.0861988	.6065246	.2654628	.7427219	.8857502	.3004372
#1	954.4352	994.7947	24257.79	51547.77	49916.09	976.1352	49985.05
#2	939.3962	996.2650	23996.27	51377.84	49302.44	963.9090	49752.82
#3	933.9156	996.2974	24014.12	51277.88	49258.63	959.6404	50033.38
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	962.1306	973.9319	971.5403	1041.927	962.9858	983.3733	985.3250
SDEV	4.3907	3.2591	13.3402	4.756	6.1111	5.3238	10.8299
%RSD	.4563491	.3346376	1.373095	.4564516	.6346021	.5413825	1.099122
#1	964.3063	975.8651	979.1540	1047.212	969.9370	986.3663	979.2719
#2	957.0770	970.1690	979.3301	1037.992	960.5618	986.5269	978.8749
#3	965.0087	975.7615	956.1367	1040.578	958.4585	977.2266	997.8283
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1005.690	950.9020	969.0159	989.6269	980.2486	1014.634	978.2808
SDEV	1.560	1.9420	9.1645	2.3093	8.3017	3.578	6.5017
%RSD	.1551170	.2042246	.9457535	.2333481	.8468969	.3526417	.6646046
#1	1007.411	951.3989	979.1896	991.6299	983.7360	1015.473	979.5902
#2	1005.289	948.7599	966.4512	987.1011	986.2378	1017.717	971.2240
#3	1004.370	952.5473	961.4070	990.1499	970.7721	1010.711	984.0281
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1002.797	975.8933	4578.400
SDEV	6.366	2.4244	10.629
%RSD	.6347855	.2484301	.2321562
#1	1005.809	975.9139	4566.733
#2	995.4843	973.4586	4580.933
#3	1007.098	978.3073	4587.533
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 14:23:22
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2739101	20.26405	.1443691	.4058416	377.5014	.5981876	1.609125
SDEV	.2802563	1.95449	.1380601	.1470063	1.0896	.0253119	.307112
%RSD	102.3169	9.645091	95.62995	36.22258	.2886352	4.231430	19.08568
#1	.5135814	21.71204	.3018058	.5748540	378.7386	.6003347	1.866627
#2	.3423876	21.03922	.0439515	.3350088	376.6848	.6223575	1.691531
#3	-.034239	18.04089	.0873500	.3076620	377.0808	.5718705	1.269216
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.9672880	-.183113	9.862811	-1423.57	13.96323	.3239278	113.6425
SDEV	.2391719	.074626	3.853845	14.73	5.87974	.1091675	164.6777
%RSD	24.72603	40.75409	39.07451	1.034669	42.10877	33.70120	144.9085
#1	1.220740	-.140028	5.988086	-1406.57	20.74194	.3872375	303.7959
#2	.9355611	-.140028	13.69543	-1432.44	10.90273	.3866734	18.60496
#3	.7455630	-.269284	9.904919	-1431.70	10.24501	.1978724	18.52665
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5166657	3.219406	.1572061	1.182252	2.177462	2.821946	3.862913
SDEV	.4378304	2.491718	.2563498	.239374	.394976	1.780228	2.370356
%RSD	84.74152	77.39682	163.0661	20.24733	18.13927	63.08514	61.36187
#1	.0154320	6.058234	.4442597	.9058470	2.527851	4.052239	5.322894
#2	.7101070	2.205513	.0762526	1.321114	1.749431	3.632982	5.137899
#3	.8244580	1.394470	-.048894	1.319795	2.255104	.7806166	1.127947
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.506266	3.950809	1.289542	4.293673	2.084610	1.367196	2.030495
SDEV	.840969	4.065301	1.470469	4.218480	2.500372	2.174605	3.593954
%RSD	55.83138	102.8979	114.0304	98.24874	119.9444	159.0559	176.9989
#1	2.343000	8.254039	-.333532	9.110077	1.524531	3.751651	6.163879
#2	1.514672	.1748995	2.532939	1.255180	4.817524	.8566474	.2845223
#3	.6611254	3.423489	1.669218	2.515764	-.088226	-.506712	-.356916
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.375590	.2152233	4685.955
SDEV	1.569850	.0806648	10.886
%RSD	114.1220	37.47957	.2323193
#1	2.885292	.2405460	4675.466
#2	1.489661	.2801885	4685.200
#3	-.248185	.1249355	4697.200
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-03 OPERATOR:
RUN TIME: 06/11/10 14:30:31
COMMENT: SDG:1005132 CLIENTID:SB77-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.136955	33007.06	84.96268	1.205574	4999.071	1.361397	1.888888
SDEV	.224519	402.22	1.95901	.268345	28.791	.300519	.289700
%RSD	163.9360	1.218574	2.305735	22.25865	.5759279	22.07432	15.33706
#1	-.342388	32793.64	83.31660	.9138789	4965.843	1.014963	1.683524
#2	-.171194	32756.54	84.44202	1.260901	5014.746	1.517313	1.762887
#3	.1027163	33471.01	87.12943	1.441944	5016.623	1.551915	2.220251
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.47716	15.39766	14884.18	-230.813	1176.843	124.6876	419.3355
SDEV	.87713	.19411	164.63	20.332	16.769	1.7665	15.2567
%RSD	2.404608	1.260634	1.106053	8.808810	1.424950	1.416771	3.638297
#1	35.48473	15.59693	14699.91	-243.320	1158.343	122.8001	416.0310
#2	36.79826	15.38689	14935.85	-241.766	1181.142	124.9614	435.9736
#3	37.14849	15.20917	15016.76	-207.353	1191.045	126.3012	406.0018
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.16323	-5.71625	48.16831	52.38630	47.20152	3.171869	14.63202
SDEV	.78581	.91198	.11882	.91309	.83558	2.147893	1.79188
%RSD	7.039280	15.95410	.2466836	1.743003	1.770236	67.71695	12.24629
#1	10.93890	-5.90136	48.06677	51.63584	46.52077	3.997358	12.56519
#2	12.03681	-6.52147	48.13917	53.40290	48.13403	4.784556	15.58178
#3	10.51398	-4.72592	48.29900	52.12017	46.94976	.7336939	15.74909
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	10.11707	51.03422	45.28499	-19.7399	14.60787	17.12543	-1.18477
SDEV	.30676	1.45717	1.03578	5.1992	1.10442	2.70810	.36019
%RSD	3.032132	2.855278	2.287259	26.33843	7.560417	15.81334	30.40175
#1	9.846567	51.35187	44.10584	-19.6021	15.77674	14.29275	-1.32986
#2	10.45037	52.30637	46.04794	-14.6110	14.46508	19.68884	-1.44979
#3	10.05428	49.44443	45.70119	-25.0066	13.58180	17.39470	-.774664
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.342427	674.9955	4459.088
SDEV	.636317	3.3911	78.034
%RSD	19.03756	.5023828	1.749988
#1	4.076205	675.8464	4537.066
#2	2.942743	671.2601	4459.200
#3	3.008332	677.8801	4380.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-04 OPERATOR:
RUN TIME: 06/11/10 14:37:39
COMMENT: SDG:1005132 CLIENTID:SB77-3.5-4.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2967359	41264.40	86.60052	1.490998	4398.099	1.472776	2.801730
SDEV	.3087822	692.91	1.05165	.118545	78.692	.222744	.371286
%RSD	104.0596	1.679208	1.214370	7.950693	1.789219	15.12412	13.25204
#1	.6162977	40475.27	85.40434	1.620255	4307.254	1.498858	2.395536
#2	.2739101	41773.38	87.01742	1.387353	4445.200	1.238138	3.123606
#3	.0000000	41544.54	87.37980	1.465387	4441.843	1.681330	2.886048
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	51.62759	12.42477	19805.09	177.5244	1524.398	82.53828	516.2901
SDEV	.74818	.54704	369.94	9.9502	25.365	1.73449	76.6935
%RSD	1.449182	4.402802	1.867919	5.604985	1.663967	2.101438	14.85472
#1	50.76895	11.92929	19378.18	166.2687	1495.576	80.56581	602.5308
#2	52.13957	13.01181	20031.53	181.1551	1543.324	83.22369	455.7401
#3	51.97423	12.33321	20005.56	185.1494	1534.295	83.82533	490.5994
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.35980	-6.43413	68.55760	23.72889	43.58158	1.881386	11.12535
SDEV	.19839	4.04160	1.24601	.41096	.93856	1.186856	2.14518
%RSD	1.605132	62.81496	1.817471	1.731900	2.153580	63.08412	19.28191
#1	12.34538	-3.86235	67.14362	23.35132	43.27191	.6053740	9.694187
#2	12.56501	L-11.0925	69.49493	24.16661	42.83698	2.086411	13.59182
#3	12.16902	-4.34749	69.03425	23.66873	44.63585	2.952372	10.09003
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.347872	50.12444	40.31208	-19.6724	12.63947	18.76081	.6755303
SDEV	2.933303	1.19981	1.98604	.4350	1.98269	2.01205	1.013979
%RSD	54.84992	2.393669	4.926658	2.211134	15.68654	10.72476	150.1011
#1	6.128807	50.90636	39.45743	-19.1701	10.47565	16.79776	-.451073
#2	2.103132	50.72395	38.89645	-19.9264	13.07370	20.81852	1.514924
#3	7.811678	48.74303	42.58238	-19.9205	14.36905	18.66616	.9627406
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.846008	819.3895	4581.622
SDEV	.316714	20.0797	11.773
%RSD	11.12836	2.450565	.2569610
#1	2.734792	796.2618	4570.866
#2	3.203330	832.3768	4579.800
#3	2.599903	829.5297	4594.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-05 OPERATOR:
RUN TIME: 06/11/10 14:44:47
COMMENT: SDG:1005132 CLIENTID:SB79-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3309747	15790.90	52.44135	1.086059	1680.967	.6839283	1.660840
SDEV	.1100622	217.03	.52629	.286199	21.630	.2761626	.122414
%RSD	33.25397	1.374426	1.003585	26.35212	1.286783	40.37888	7.370577
#1	.4108651	15540.31	52.91396	1.415958	1656.206	.6644469	1.787708
#2	.2054325	15913.95	51.87419	.9379806	1696.185	.9693156	1.651382
#3	.3766263	15918.45	52.53590	.9042367	1690.509	.4180222	1.543430
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	21.67209	13.69579	4953.108	-583.215	460.9406	82.45312	473.6969
SDEV	.59761	.35114	64.325	4.283	4.5768	1.44417	24.2134
%RSD	2.757510	2.563888	1.298677	.7343600	.9929166	1.751507	5.111573
#1	21.06192	13.75503	4880.711	-578.716	456.0031	80.78598	501.3087
#2	22.25630	14.01355	4974.928	-587.242	461.7776	83.25315	463.6965
#3	21.69806	13.31879	5003.685	-583.686	465.0410	83.32022	456.0856
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.748596	-7.34153	24.49998	32.43129	33.25310	2.173060	11.91373
SDEV	.430431	1.17035	.70897	.86412	1.35844	.935789	.39802
%RSD	6.378086	15.94152	2.893741	2.664451	4.085157	43.06318	3.340878
#1	6.287838	-5.99012	23.72550	32.97669	31.68547	1.994483	12.02120
#2	7.140367	-8.01743	24.65753	31.43499	34.08455	3.185269	12.24698
#3	6.817583	-8.01703	25.11693	32.88219	33.98928	1.339427	11.47301
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.605649	40.85908	29.45276	-21.3533	13.91587	16.83101	.3115811
SDEV	.880404	1.13425	2.59004	1.4632	.69174	1.69311	.2591659
%RSD	54.83163	2.776011	8.793885	6.852241	4.970872	10.05946	83.17767
#1	.7697080	42.11905	26.47344	-21.8948	13.91850	18.22271	.4632150
#2	2.524631	39.91945	31.16842	-19.6965	14.60630	14.94604	.0123311
#3	1.522609	40.53874	30.71640	-22.4685	13.22283	17.32427	.4591972
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.286104	667.6149	4441.200
SDEV	.989965	7.5632	7.866
%RSD	76.97395	1.132862	.1771145
#1	2.347159	661.4695	4436.200
#2	1.123883	676.0613	4437.133
#3	.3872682	665.3138	4450.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-06 OPERATOR:
RUN TIME: 06/11/10 14:51:56
COMMENT: SDG:1005132 CLIENTID:SB79-11-12 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1369550	71576.38	100.7388	1.727503	1184.790	1.613271	3.003060
SDEV	.0342388	808.44	.7326	.193082	12.977	.353193	.425799
%RSD	25.00000	1.129480	.7272409	11.17697	1.095277	21.89296	14.17885
#1	.1027163	70705.54	100.0363	1.516938	1170.857	1.224035	2.512026
#2	.1369550	71720.57	100.6818	1.769320	1186.980	1.913324	3.226917
#3	.1711938	72303.02	101.4982	1.896250	1196.532	1.702453	3.270237
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	95.39500	11.63846	23206.56	5038.626	2572.083	64.36341	510.0690
SDEV	2.24674	.28031	504.27	72.861	45.953	1.30620	51.2976
%RSD	2.355193	2.408512	2.172943	1.446042	1.786603	2.029420	10.05700
#1	92.81163	11.88082	22642.62	4956.817	2521.470	62.92310	529.3721
#2	96.48058	11.70309	23362.98	5062.524	2583.591	64.69589	451.9201
#3	96.89278	11.33148	23614.08	5096.536	2611.188	65.47124	548.9147
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.01756	-2.44123	175.3569	41.70364	35.97793	1.449840	11.74268
SDEV	.58037	1.66196	4.8917	1.41959	.90779	.769670	1.65895
%RSD	4.458374	68.07885	2.789544	3.403988	2.523193	53.08651	14.12749
#1	13.35822	-3.80056	170.5702	40.06523	36.99046	1.923273	11.78590
#2	13.34702	-.588415	175.1531	42.47884	35.23678	1.864498	10.06254
#3	12.34744	-2.93470	180.3472	42.56685	35.70654	.5617505	13.37959
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.66568	40.01027	33.96177	-20.8494	12.58008	15.56400	-.100836
SDEV	1.37244	3.67770	1.09663	2.1262	.70126	.58472	1.492017
%RSD	7.768966	9.191880	3.229021	10.19807	5.574340	3.756852	1479.648
#1	19.18577	42.65798	34.15798	-21.0385	13.38429	16.23690	-1.76518
#2	16.51759	35.81106	34.94705	-18.6350	12.09618	15.17965	1.116800
#3	17.29367	41.56176	32.78027	-22.8748	12.25976	15.27545	.3458718
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	4.229679	900.7863	4503.377
SDEV	.726210	9.0674	55.716
%RSD	17.16939	1.006614	1.237200
#1	4.758768	890.3484	4564.933
#2	3.401725	905.2941	4488.800
#3	4.528543	906.7165	4456.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-07 OPERATOR:
RUN TIME: 06/11/10 14:59:04
COMMENT: SDG:1005132 CLIENTID:SB83-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3195617	29623.41	66.33711	1.042919	10048.65	.6851003	1.085309
SDEV	.1383743	57.38	.96410	.360705	153.30	.0980135	.260306
%RSD	43.30127	.1937102	1.453334	34.58607	1.525568	14.30644	23.98447
#1	.4793426	29570.20	65.45333	.9191693	10152.44	.7344062	1.366365
#2	.2396713	29615.82	66.19275	.7603786	10120.94	.7486706	1.037057
#3	.2396713	29684.21	67.36525	1.449211	9872.575	.5722241	.8525053
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	32.58609	7.992352	8920.972	-565.144	815.2838	56.57556	487.6434
SDEV	1.01912	.457085	63.583	15.645	7.6834	.44759	37.1392
%RSD	3.127477	5.719030	.7127310	2.768235	.9424226	.7911422	7.616067
#1	32.32014	8.067751	8993.790	-574.507	823.9092	57.09239	516.0544
#2	33.71182	8.407049	8876.449	-573.842	809.1722	56.31896	445.6182
#3	31.72631	7.502255	8892.675	-547.083	812.7699	56.31532	501.2575
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.975746	-6.56910	40.45110	35.24995	44.19525	4.654893	14.13496
SDEV	1.115416	1.07130	.58196	.29645	2.41775	.784357	1.88206
%RSD	12.42700	16.30811	1.438684	.8409995	5.470608	16.85017	13.31490
#1	7.697592	-5.98470	40.98930	35.58516	42.92283	4.497545	15.83590
#2	9.477365	-5.91708	40.53049	35.02227	46.98349	3.961137	12.11307
#3	9.752281	-7.80550	39.83352	35.14243	42.67944	5.505997	14.45591
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	4.091191	49.48854	41.54950	-17.4195	15.67278	16.22290	-.624658
SDEV	1.464347	2.50006	4.26705	1.9859	1.76861	2.66864	1.452362
%RSD	35.79268	5.051790	10.26979	11.40049	11.28463	16.44984	232.5052
#1	5.489723	52.36727	38.20465	-15.1551	14.30641	15.71020	.5650443
#2	4.214964	48.23606	46.35508	-18.2384	15.04153	13.84780	-2.24314
#3	2.568886	47.86227	40.08876	-18.8650	17.67042	19.11069	-.195882
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.461292	518.8707	4410.488
SDEV	.722524	5.2585	72.796
%RSD	49.44421	1.013441	1.650526
#1	2.203142	522.1802	4470.733
#2	.7597845	521.6246	4431.133
#3	1.420948	512.8072	4329.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-08 OPERATOR:
RUN TIME: 06/11/10 15:06:13
COMMENT: SDG:1005132 CLIENTID:SB83-6.5-7.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4565168	77573.62	71.45048	1.391254	1113.297	1.576633	4.208588
SDEV	.1688958	1221.02	.94585	.255348	18.730	.022567	.383573
%RSD	36.99662	1.574020	1.323780	18.35379	1.682423	1.431333	9.114066
#1	.6505364	77920.86	72.27253	1.643949	1099.078	1.579341	3.992433
#2	.3423876	76216.59	70.41672	1.133333	1106.292	1.552834	3.981872
#3	.3766263	78583.41	71.66219	1.396479	1134.520	1.597724	4.651458
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	74.19437	5.261811	13254.64	2216.544	1958.922	49.27078	505.1489
SDEV	3.05417	.105124	345.51	63.398	47.309	1.29656	76.3632
%RSD	4.116449	1.997873	2.606728	2.860205	2.415035	2.631492	15.11697
#1	72.35294	5.256425	13062.19	2273.907	1935.887	48.71941	590.3456
#2	72.51030	5.369525	13048.21	2148.475	1927.542	48.34104	482.2351
#3	77.71985	5.159483	13653.52	2227.250	2013.336	50.75189	442.8660
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.95960	-2.89662	69.49277	21.99061	30.32547	3.674717	12.15650
SDEV	.93466	2.80160	1.75293	1.14426	1.17242	.808554	2.30713
%RSD	6.247914	96.71980	2.522469	5.203422	3.866127	22.00317	18.97856
#1	14.43630	-5.19404	68.43046	20.77385	30.53837	4.126050	9.542212
#2	14.40381	-3.72032	68.53183	22.15295	29.06118	2.741248	13.90746
#3	16.03869	.2244978	71.51605	23.04504	31.37685	4.156853	13.01981
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3142656	36.02144	27.47872	-19.3122	15.14825	18.64678	-.184802
SDEV	2.171342	4.07007	2.39290	4.5543	1.31763	2.51061	.245582
%RSD	690.9257	11.29902	8.708176	23.58227	8.698235	13.46407	132.8897
#1	-2.16212	40.71465	25.45479	-14.9472	13.64567	21.54523	-.324636
#2	1.212819	33.46087	26.86165	-24.0347	16.10649	17.14859	.0987635
#3	1.892100	33.88879	30.11971	-18.9547	15.69261	17.24651	-.328533
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.933921	646.4681	4482.755
SDEV	.445883	7.9300	65.466
%RSD	11.33431	1.226663	1.460403
#1	4.433928	644.2766	4430.133
#2	3.577586	639.8643	4556.066
#3	3.790250	655.2634	4462.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-09 OPERATOR:
RUN TIME: 06/11/10 15:13:22
COMMENT: SDG:1005132 CLIENTID:SB62-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7418398	29296.30	93.61204	1.517331	1473.858	.6645926	1.966854
SDEV	.2429103	264.85	.52683	.312185	4.816	.2534324	.257603
%RSD	32.74430	.9040539	.5627776	20.57458	.3267288	38.13350	13.09721
#1	.4793426	29572.49	93.49061	1.496204	1478.889	.9337414	2.043416
#2	.7874914	29271.95	94.18899	1.839543	1473.392	.6295024	2.177497
#3	.9586853	29044.46	93.15654	1.216247	1469.292	.4305338	1.679650
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	25.50315	47.93796	1647.407	359.6741	680.2232	18.84705	712.2685
SDEV	.53778	1.07543	16.719	25.1308	12.4354	.31623	44.0253
%RSD	2.108671	2.243373	1.014841	6.987103	1.828135	1.677864	6.180996
#1	25.86862	47.71714	1657.220	362.7691	681.6822	18.87696	675.6439
#2	25.75519	46.99007	1656.898	383.1141	691.8647	19.14726	761.1128
#3	24.88565	49.10665	1628.103	333.1392	667.1226	18.51693	700.0488
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.116320	-7.10011	34.49181	18.02026	69.00247	12.63192	11.44652
SDEV	1.050790	.90694	.57492	.08276	1.85179	1.38729	1.15789
%RSD	17.18011	12.77356	1.666821	.4592789	2.683651	10.98243	10.11561
#1	5.078554	-7.13062	34.89138	18.11059	68.18272	12.40550	10.11042
#2	6.090738	-7.99141	34.75115	17.94807	71.12264	14.11849	12.15723
#3	7.179667	-6.17831	33.83291	18.00211	67.70205	11.37176	12.07192
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.293020	76.14802	65.43195	-11.4196	24.63690	24.19811	-.125092
SDEV	1.100214	1.83764	1.91673	1.7778	1.25265	2.84395	1.038738
%RSD	15.08585	2.413244	2.929350	15.56816	5.084428	11.75278	830.3789
#1	6.247874	75.93741	64.30807	-12.2670	24.72048	26.97482	1.057710
#2	8.441071	78.08189	67.64511	-9.37661	25.84566	21.29138	-.544122
#3	7.190116	74.42476	64.34267	-12.6152	23.34455	24.32813	-.888864
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.056684	265.6868	4387.733
SDEV	.725200	4.7846	53.462
%RSD	68.62979	1.800825	1.218449
#1	1.154081	270.8543	4364.600
#2	.2877074	261.4106	4349.733
#3	1.728264	264.7955	4448.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-10 OPERATOR:
RUN TIME: 06/11/10 15:20:30
COMMENT: SDG:1005132 CLIENTID:SB74-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.011413	26199.84	81.58882	.7475173	1138.055	.9099297	2.675123
SDEV	.138374	463.47	.74087	.1486135	17.403	.3316612	.302535
%RSD	1212.436	1.768985	.9080521	19.88095	1.529198	36.44910	11.30921
#1	-.171194	25830.91	81.68927	.8974162	1119.567	1.040157	2.418734
#2	.0684775	26720.05	82.27434	.6002234	1154.119	1.156713	3.008807
#3	.0684775	26048.56	80.80286	.7449121	1140.478	.5329189	2.597827
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	28.16538	16.24860	9832.401	-317.746	830.0422	77.89043	551.9495
SDEV	.58736	.58352	139.567	5.174	10.4276	1.10549	34.6172
%RSD	2.085390	3.591204	1.419463	1.628443	1.256273	1.419287	6.271807
#1	27.58420	15.79082	9674.744	-315.469	824.4002	76.64963	590.7888
#2	28.75873	16.90566	9940.163	-314.101	842.0751	78.77046	540.7142
#3	28.15320	16.04933	9882.298	-323.668	823.6511	78.25121	524.3455
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	8.744900	-4.73311	32.87322	18.08171	35.47302	2.576918	13.35530
SDEV	.512522	1.94888	1.16558	.33213	.68685	2.136552	2.14236
%RSD	5.860816	41.17553	3.545677	1.836850	1.936267	82.91115	16.04130
#1	8.882643	-5.97836	31.62841	17.82913	35.02524	3.292121	12.65708
#2	8.177581	-2.48717	33.93880	17.95807	35.12999	4.264119	11.64915
#3	9.174475	-5.73381	33.05246	18.45793	36.26382	.1745134	15.75967
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	2.664646	40.78389	32.81861	-18.9490	13.32113	17.99304	.4528666
SDEV	1.063099	.97297	.54531	.3452	3.07886	1.75390	1.068157
%RSD	39.89645	2.385664	1.661593	1.821819	23.11261	9.747656	235.8657
#1	2.661517	40.19974	32.43893	-18.6052	14.22177	16.98920	1.062186
#2	3.729306	40.24486	32.57343	-18.9462	15.84924	16.97168	1.076920
#3	1.603115	41.90707	33.44347	-19.2957	9.892384	20.01825	-.780506
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.647214	644.0281	4604.222
SDEV	.532434	7.3960	20.138
%RSD	32.32328	1.148400	.4373736
#1	1.525133	638.8768	4614.800
#2	1.186423	652.5028	4580.999
#3	2.230085	640.7047	4616.866
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-11 OPERATOR:
RUN TIME: 06/11/10 15:27:38
COMMENT: SDG:1005132 CLIENTID:SB86-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.136955	100437.8	110.7945	.9680689	50110.64	3.960505	-1.48182
SDEV	.298487	426.7	.6499	.1903623	517.14	.394974	.14182
%RSD	217.9450	.4248281	.5865558	19.66412	1.031993	9.972809	9.570404
#1	.2054325	100006.2	111.3149	1.185834	50039.82	4.340546	-1.53937
#2	-.273910	100859.4	110.0661	.8851032	50659.54	3.988845	-1.32027
#3	-.342388	100447.7	111.0024	.8332698	49632.56	3.552125	-1.58581
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	111.8690	6.877516	76879.54	1649.053	3955.837	83.26597	497.4118
SDEV	1.9983	.219957	818.65	12.129	36.207	.70947	110.3499
%RSD	1.786262	3.198206	1.064847	.7355053	.9152685	.8520574	22.18481
#1	111.0105	6.629776	77173.78	1661.514	3966.327	83.70876	541.7357
#2	114.1531	6.952915	77510.40	1637.286	3985.640	83.64149	578.7083
#3	110.4435	7.049859	75954.44	1648.359	3915.544	82.44766	371.7915
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.25178	.9949748	200.2239	69.96223	74.00726	8.814689	12.73637
SDEV	.57048	6.109376	1.7661	1.19874	1.59753	1.931893	1.17671
%RSD	3.740420	614.0232	.8820697	1.713413	2.158617	21.91675	9.238997
#1	15.59950	5.226830	201.6875	69.58951	75.82295	11.02818	12.93491
#2	14.59339	-6.00900	200.7219	71.30306	72.81730	7.468023	11.47302
#3	15.56244	3.767098	198.2622	68.99413	73.38155	7.947866	13.80118
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.15355	70.43477	75.78768	-9.59100	18.00112	18.54341	.4107306
SDEV	1.85926	4.06438	1.10481	4.37652	1.63346	.82410	1.793364
%RSD	15.29811	5.770421	1.457775	45.63157	9.074209	4.444175	436.6277
#1	14.23111	74.91858	76.27117	-5.08231	19.06872	19.49262	2.152032
#2	10.64609	69.39318	74.52354	-9.86854	16.12071	18.01047	.5106744
#3	11.58345	66.99254	76.56834	-13.8221	18.81394	18.12716	-1.43051
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.986763	726.6234	4626.822
SDEV	.302435	6.1690	20.960
%RSD	7.585985	.8489949	.4530008
#1	4.122677	720.6378	4609.200
#2	4.197396	732.9607	4649.999
#3	3.640216	726.2716	4621.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-12 OPERATOR:
RUN TIME: 06/11/10 15:34:47
COMMENT: SDG:1005132 CLIENTID:SB86-3-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.034239	79672.47	82.92807	1.788326	5902.183	5.258434	-9.44236
SDEV	.190633	1458.74	1.74117	.474596	208.783	.330214	.44482
%RSD	556.7764	1.830926	2.099613	26.53856	3.537381	6.279704	4.710854
#1	.1711938	81354.88	84.89196	2.328249	5677.901	5.408069	-9.83814
#2	-.068478	78902.45	82.31896	1.599629	5937.750	5.487341	-8.96096
#3	-.205433	78760.09	81.57328	1.437100	6090.898	4.879892	-9.52799
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	111.0547	42.89696	135782.7	2812.271	3131.720	67.19292	530.0063
SDEV	4.0190	2.84150	3569.8	183.936	27.345	1.77742	48.1278
%RSD	3.618907	6.624005	2.629078	6.540481	.8731635	2.645256	9.080612
#1	106.7480	39.65478	132043.9	3022.425	3108.988	65.30022	574.5548
#2	111.7111	44.08181	136148.9	2733.816	3124.106	67.45186	536.5049
#3	114.7051	44.95429	139155.3	2680.571	3162.065	68.82667	478.9595
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.90823	-.478958	136.2083	33.25312	48.38173	3.796482	6.778595
SDEV	.71945	2.066700	2.5946	3.05643	.09406	.975103	3.609972
%RSD	5.172806	431.4991	1.904897	9.191408	.1944129	25.68438	53.25546
#1	13.12721	1.442993	133.4437	29.90939	48.27334	2.730004	2.648140
#2	14.54391	-.214851	136.5908	33.94702	48.44187	4.017000	9.330032
#3	14.05357	-2.66502	138.5905	35.90293	48.42999	4.642442	8.357613
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	35.17863	44.48407	50.32458	-8.89128	10.12814	18.95103	2.063608
SDEV	4.19030	.68531	.25618	3.41737	2.96677	3.46722	1.253668
%RSD	11.91151	1.540582	.5090546	38.43508	29.29233	18.29570	60.75125
#1	30.39387	43.86699	50.46999	-6.91300	7.541412	21.48906	1.957485
#2	36.94796	44.36359	50.47498	-6.92352	9.476410	20.36351	.8663752
#3	38.19406	45.22164	50.02879	-12.8373	13.36658	15.00052	3.366964
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.520854	670.5397	4456.177
SDEV	.734389	7.8067	205.377
%RSD	20.85826	1.164245	4.608805
#1	3.666385	674.3276	4219.466
#2	4.171582	661.5617	4562.066
#3	2.724595	675.7298	4586.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 15:41:56
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	106.0717	46191.39	949.8799	1014.550	49084.48	988.3034	999.9061
SDEV	.6341	472.57	7.2534	11.966	734.80	9.9503	8.9159
%RSD	.5978137	1.023069	.7636100	1.179428	1.497016	1.006802	.8916739
#1	106.3114	46719.21	949.7035	1026.509	49823.83	991.0594	1006.489
#2	106.5510	46047.36	957.2198	1014.563	49075.31	996.5851	1003.470
#3	105.3527	45807.59	942.7163	1002.577	48354.31	977.2656	989.7595
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	958.3988	1020.075	24562.81	49758.69	49677.59	979.7955	49569.43
SDEV	18.1288	1.268	297.78	76.65	630.36	12.1754	385.26
%RSD	1.891571	.1242584	1.212301	.1540369	1.268894	1.242649	.7772135
#1	974.9816	1020.355	24807.12	49830.53	50189.53	989.7944	50013.72
#2	961.1713	1018.691	24650.19	49767.52	49869.72	983.3550	49366.66
#3	939.0435	1021.179	24231.12	49678.00	48973.53	966.2370	49327.89
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	982.8903	981.6943	970.9335	1087.663	982.9005	986.1484	994.8309
SDEV	10.7786	5.1153	20.4634	11.830	3.0843	1.9254	11.3306
%RSD	1.096623	.5210717	2.107597	1.087619	.3137981	.1952418	1.138948
#1	987.9676	987.5126	984.5811	1095.552	983.6999	985.5424	987.1893
#2	990.1926	977.9036	980.8146	1093.375	985.5064	988.3038	1007.849
#3	970.5107	979.6666	947.4047	1074.061	979.4952	984.5989	989.4546
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1015.705	974.0390	987.3218	988.6485	984.8978	1033.974	979.3760
SDEV	3.680	11.9609	2.8021	6.3046	5.3227	11.986	7.3594
%RSD	.3623384	1.227968	.2838074	.6377009	.5404292	1.159257	.7514329
#1	1019.700	982.9188	984.0872	995.5754	980.5311	1039.522	983.2946
#2	1014.962	978.7601	988.8716	983.2456	990.8268	1042.182	983.9468
#3	1012.452	960.4380	989.0066	987.1245	983.3356	1020.219	970.8865
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1020.270	980.0187	4757.267
SDEV	6.846	16.9234	18.213
%RSD	.6710220	1.726847	.3828487
#1	1020.508	999.4068	4738.667
#2	1026.995	972.4409	4758.066
#3	1013.308	968.2084	4775.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 15:49:06
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2739101	35.30503	.2467926	.8140572	380.6594	.1678490	.9357159
SDEV	.3301866	6.48454	.0144730	.1510786	.7116	.1195428	.1729836
%RSD	120.5456	18.36719	5.864445	18.55872	.1869495	71.22046	18.48676
#1	.6505364	42.13409	.2633971	.9743350	380.0818	.2993811	1.127876
#2	.0342388	29.23113	.2368516	.6742692	381.4544	.1383455	.7924205
#3	.1369550	34.54987	.2401290	.7935675	380.4421	.0658204	.8868514
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4990043	-.010772	10.39872	-1425.66	15.31426	.4000393	17.51616
SDEV	.3683698	.253928	2.28088	2.93	2.82205	.0951456	33.60849
%RSD	73.82095	2357.382	21.93422	.2055744	18.42758	23.78406	191.8713
#1	.6616149	-.285441	11.67409	-1424.53	13.35283	.4023506	19.62157
#2	.0773101	.2154268	11.75666	-1428.98	18.54854	.4940082	-17.0955
#3	.7580880	.0376994	7.765423	-1423.45	14.04141	.3037591	50.02245
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.215741	3.676088	.3424086	.9051574	.5607915	2.458965	3.253026
SDEV	.241405	1.776979	.3383915	.3707741	1.300692	1.120428	1.545199
%RSD	19.85658	48.33886	98.82680	40.96238	231.9386	45.56503	47.50038
#1	1.079974	2.752295	.7259559	.6904389	-.940997	3.046950	4.840722
#2	1.072790	5.724682	.0860020	.6917436	1.295135	1.166942	3.164200
#3	1.494461	2.551286	.2152680	1.333290	1.328237	3.163004	1.754155
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5166285	1.989537	-.155162	-.377758	3.872549	-2.07000	.8701507
SDEV	.7014002	1.022737	2.050934	1.675728	.931886	.83098	1.658913
%RSD	135.7649	51.40580	1321.803	443.5985	24.06388	40.14413	190.6466
#1	.7602938	2.089217	-2.45649	-.116419	4.623600	-2.78425	.6545408
#2	1.063700	.9206096	1.479478	-2.16880	2.829676	-2.26778	-.670415
#3	-.274108	2.958785	.5115312	1.151946	4.164372	-1.15797	2.626326
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.276156	.3071721	4552.022
SDEV	.541579	.0581508	21.142
%RSD	42.43829	18.93100	.4644558
#1	1.802618	.3734533	4532.800
#2	1.305219	.2647246	4574.667
#3	.7206308	.2833386	4548.600
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-13 OPERATOR:
RUN TIME: 06/11/10 15:56:14
COMMENT: SDG:1005132 CLIENTID:SB86-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.079890	34878.22	90.76817	.7569230	11562.42	1.311514	2.393671
SDEV	.285095	302.84	.44191	.0442038	63.52	.077965	.352213
%RSD	356.8571	.8682799	.4868580	5.839938	.5493782	5.944668	14.71435
#1	.2396713	34572.39	90.52013	.7731931	11490.48	1.369368	2.027730
#2	-.171194	35177.98	91.27837	.7906860	11610.80	1.342322	2.730328
#3	-.308149	34884.30	90.50598	.7068900	11585.96	1.222852	2.422953
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	39.13770	6.473589	18744.78	-260.964	1099.288	62.00140	610.6271
SDEV	.43438	.076355	135.13	3.752	7.380	.67748	34.7489
%RSD	1.109882	1.179478	.7208984	1.437806	.6713818	1.092692	5.690684
#1	38.63613	6.387419	18589.56	-263.312	1092.707	61.24636	633.6943
#2	39.39039	6.532831	18836.22	-256.636	1107.268	62.20165	570.6609
#3	39.38660	6.500518	18808.54	-262.943	1097.888	62.55619	627.5259
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.935361	-1.14394	55.71108	24.03135	72.79205	3.574825	11.98426
SDEV	.382261	2.77239	.78647	.26696	1.94729	2.219136	.60516
%RSD	3.847478	242.3544	1.411699	1.110877	2.675139	62.07677	5.049617
#1	10.09799	-3.03461	54.80644	23.78701	70.72974	4.302896	11.30970
#2	9.498676	-2.43584	56.23246	24.31628	74.59914	1.083115	12.16361
#3	10.20941	2.038623	56.09432	23.99076	73.04727	5.338463	12.47948
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.544783	79.36527	69.50744	-19.8858	15.28497	17.78179	-.240936
SDEV	2.738439	.38066	2.85490	4.9404	1.33937	.21988	1.496408
%RSD	41.84156	.4796332	4.107324	24.84400	8.762631	1.236532	621.0822
#1	3.659569	79.37950	66.40841	-20.2969	16.58177	18.01434	.5092798
#2	6.866806	79.73862	72.03032	-24.6079	13.90675	17.57727	.7319624
#3	9.107972	78.97769	70.08359	-14.7527	15.36639	17.75376	-1.96405
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.561717	607.4607	4645.022
SDEV	1.322090	4.1823	12.781
%RSD	51.60950	.6884836	.2751447
#1	4.075779	604.2357	4651.133
#2	1.635470	612.1863	4630.333
#3	1.973904	605.9603	4653.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-14 OPERATOR:
RUN TIME: 06/11/10 16:03:22
COMMENT: SDG:1005132 CLIENTID:SB86-6-7 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2282584	65332.02	67.52998	1.795798	5503.042	1.191452	2.541682
SDEV	.1756997	895.39	1.18368	.223197	86.381	.265293	.449781
%RSD	76.97402	1.370517	1.752816	12.42884	1.569690	22.26637	17.69620
#1	.2739101	64399.27	66.20118	1.658924	5403.934	.8900375	2.025069
#2	.0342388	66184.66	68.47153	2.053354	5542.857	1.389514	2.753769
#3	.3766263	65412.12	67.91722	1.675115	5562.334	1.294805	2.846209
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	85.08808	8.708648	18915.09	3042.193	1644.419	57.19656	546.1292
SDEV	1.71488	.067267	330.48	76.365	31.191	1.11486	52.7145
%RSD	2.015417	.7724210	1.747199	2.510189	1.896799	1.949173	9.652388
#1	83.24392	8.762505	18540.38	2982.771	1616.241	55.92360	485.9443
#2	86.63475	8.633248	19165.03	3128.325	1677.935	57.99916	568.3381
#3	85.38558	8.730190	19039.84	3015.483	1639.082	57.66691	584.1053
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.05857	-4.58886	85.64597	21.57510	41.42802	.7637211	13.48166
SDEV	.93711	1.03040	1.91254	.96946	1.61791	.4561316	1.80467
%RSD	7.176187	22.45441	2.233082	4.493403	3.905356	59.72489	13.38609
#1	13.48620	-3.79964	83.73280	20.81461	39.84622	.6690450	13.17520
#2	13.70558	-5.75456	87.55789	22.66674	41.35808	.3623573	15.41994
#3	11.98393	-4.21238	85.64722	21.24394	43.07977	1.259761	11.84985
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.068044	46.85145	38.71735	-19.8295	11.04219	18.55809	-.025818
SDEV	1.190376	3.42561	.88176	3.0112	.82417	1.75521	.826592
%RSD	13.12716	7.311645	2.277432	15.18562	7.463803	9.457945	3201.584
#1	8.833770	44.13792	37.70058	-20.1559	11.06325	19.82447	-.557216
#2	10.35814	45.71575	39.17943	-22.6642	11.85563	16.55450	.9265144
#3	8.012222	50.70068	39.27203	-16.6683	10.20770	19.29529	-.446753
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.968970	779.2838	4486.066
SDEV	.959324	13.1183	66.918
%RSD	24.17060	1.683383	1.491682
#1	3.009427	767.7875	4524.066
#2	3.969408	793.5740	4408.800
#3	4.928074	776.4897	4525.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-15 OPERATOR:
RUN TIME: 06/11/10 16:10:31
COMMENT: SDG:1005132 CLIENTID:SB81-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4565168	2262.358	19.72673	1.037901	807.2169	.3838233	1.579546
SDEV	.1100622	56.315	.37100	.336275	8.7192	.1888456	.363671
%RSD	24.10913	2.489224	1.880716	32.39947	1.080153	49.20119	23.02378
#1	.4108651	2303.345	20.11400	1.416773	808.3409	.4047343	1.914766
#2	.3766263	2198.145	19.37447	.7748269	797.9903	.1853925	1.192899
#3	.5820589	2285.586	19.69173	.9221036	815.3196	.5613431	1.630973
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.597385	1.750346	2399.146	L-1041.31	145.5648	77.36851	442.6704
SDEV	.422674	.113099	54.970	5.37	5.1257	1.62150	70.7947
%RSD	4.404050	6.461538	2.291241	.5155898	3.521252	2.095816	15.99265
#1	9.766639	1.669561	2428.734	L-1037.05	147.2243	78.59930	455.8696
#2	9.116315	1.701875	2335.720	L-1047.34	139.8149	75.53117	505.9367
#3	9.909204	1.879603	2432.985	L-1039.55	149.6551	77.97504	366.2051
ERRORS	LC PASS	LC PASS	LC PASS	LC LOW	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.880684	-5.20587	9.748342	8.615950	29.77808	1.400514	12.99213
SDEV	.525336	1.91154	.509153	.453538	.87975	1.235924	.36237
%RSD	27.93324	36.71898	5.222972	5.263938	2.954366	88.24786	2.789179
#1	2.487097	-3.12802	9.841999	8.092920	30.41907	2.572019	13.04020
#2	1.564262	-5.59989	9.198862	8.900420	30.14008	.1089354	13.32807
#3	1.590691	-6.88969	10.20416	8.854509	28.77508	1.520589	12.60812
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.349039	40.12237	24.61095	-21.8122	12.98676	17.39278	-2.10099
SDEV	1.447988	.84782	1.04887	2.4260	1.48285	1.15674	.85389
%RSD	414.8497	2.113095	4.261791	11.12209	11.41817	6.650699	40.64237
#1	-2.00273	41.09174	25.08796	-21.7058	14.68997	16.06613	-2.15532
#2	.2641508	39.75622	25.33654	-24.2897	12.28726	17.92172	-1.22123
#3	.6914615	39.51916	23.40836	-19.4412	11.98303	18.19048	-2.92642
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.173625	928.4193	4423.177
SDEV	.281157	20.8901	84.957
%RSD	23.95624	2.250067	1.920721
#1	1.289270	943.5781	4341.999
#2	.8530891	904.5901	4511.466
#3	1.378518	937.0895	4416.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-16 OPERATOR:
RUN TIME: 06/11/10 16:17:39
COMMENT: SDG:1005132 CLIENTID:SB81-5-6 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5364072	13271.20	24.01147	.4910939	765.9716	.6650372	2.252584
SDEV	.2476893	451.88	.86783	.2685656	15.1525	.1691542	.862268
%RSD	46.17561	3.405000	3.614215	54.68722	1.978211	25.43530	38.27905
#1	.4108651	12752.33	23.03039	.2483718	748.7339	.4924837	1.257556
#2	.8217303	13482.88	24.32523	.7796134	771.9929	.6720540	2.780838
#3	.3766263	13578.39	24.67877	.4452964	777.1878	.8305738	2.719357
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	23.87052	2.633598	5023.128	-773.599	559.4415	44.58911	429.8082
SDEV	1.31519	.220550	203.886	17.031	20.7089	1.80755	5.0632
%RSD	5.509670	8.374468	4.058951	2.201561	3.701707	4.053791	1.178012
#1	22.40081	2.735926	4788.228	-793.071	535.7949	42.50243	435.1703
#2	24.27417	2.380472	5154.223	-761.480	574.3448	45.59266	425.1093
#3	24.93657	2.784397	5126.932	-766.244	568.1848	45.67223	429.1449
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.644025	-4.23490	19.45259	13.20824	19.20603	2.571708	12.77739
SDEV	.384259	.41600	.89217	.79547	.70402	2.063652	.93823
%RSD	6.808235	9.823197	4.586363	6.022498	3.665607	80.24441	7.342857
#1	5.226533	-4.60084	18.42258	12.31447	19.52670	.3323832	13.00947
#2	5.982887	-4.32140	19.95137	13.47170	19.69262	4.396868	11.74490
#3	5.722655	-3.78244	19.98383	13.83855	18.39876	2.985873	13.57779
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.4859966	28.35214	14.63712	-19.9574	13.81677	17.31236	-.567480
SDEV	2.018686	.80904	.71929	2.0420	3.29443	1.19689	.434703
%RSD	415.3703	2.853533	4.914136	10.23165	23.84369	6.913475	76.60226
#1	2.607645	28.29092	15.14864	-19.0669	10.01496	17.35105	-.575809
#2	.2612633	29.19005	14.94806	-18.5119	15.83143	18.48944	-.997959
#3	-1.41092	27.57545	13.81467	-22.2934	15.60392	16.09660	-.128673
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.2120799	686.7766	4658.555
SDEV	.5863230	23.4370	113.749
%RSD	276.4633	3.412616	2.441718
#1	.8755405	659.7340	4789.333
#2	-.236440	699.3932	4582.600
#3	-.002861	701.2026	4603.733
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-17 OPERATOR:
RUN TIME: 06/11/10 16:24:47
COMMENT: SDG:1005132 CLIENTID:SB71-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.604885	115804.6	135.9664	.9500464	5435.914	2.470960	4.258016
SDEV	.518503	299.1	1.9715	.1256380	16.421	.423811	.261187
%RSD	85.71937	.2582704	1.449986	13.22441	.3020900	17.15167	6.134000
#1	-1.19836	115970.0	138.1738	1.061513	5426.254	2.930512	4.202832
#2	-.239671	115459.4	135.3449	.9747260	5426.612	2.386869	4.542385
#3	-.376626	115984.4	134.3806	.8138999	5454.874	2.095498	4.028830
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	109.8215	14.75677	38033.33	1953.223	3816.410	93.57885	633.4705
SDEV	.4556	.14085	53.58	12.684	6.567	.64113	28.4430
%RSD	.4148249	.9545006	.1408784	.6493896	.1720712	.6851228	4.490029
#1	109.7277	14.85371	37999.46	1967.669	3818.962	92.91658	636.2941
#2	109.4202	14.59520	38005.43	1948.093	3808.950	93.62346	603.7211
#3	110.3167	14.82140	38095.11	1943.907	3821.317	94.19651	660.3965
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.98697	-3.24309	136.1258	53.00886	82.65405	2.630750	12.32104
SDEV	.49880	4.49271	.7151	.42715	1.13142	.393257	1.86261
%RSD	2.773111	138.5317	.5253271	.8058060	1.368858	14.94846	15.11734
#1	18.37356	-7.42322	135.3878	53.44228	83.03673	2.187977	14.30889
#2	17.42393	-3.81373	136.1739	52.99602	81.38092	2.939398	10.61601
#3	18.16341	1.507677	136.8156	52.58828	83.54450	2.764876	12.03821
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.288360	81.39453	83.27964	-16.7006	12.27935	19.64842	-.495738
SDEV	1.006987	2.82231	.98044	2.7242	1.91499	.75907	1.565528
%RSD	16.01351	3.467441	1.177280	16.31208	15.59524	3.863277	315.7974
#1	5.141002	80.37317	84.36327	-14.1689	10.35154	20.28632	.9331369
#2	6.698635	79.22509	82.45400	-19.5833	14.18127	18.80889	-2.16914
#3	7.025443	84.58533	83.02166	-16.3496	12.30524	19.85006	-.251210
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.6772369	790.0143	4690.355
SDEV	1.002714	2.6816	19.733
%RSD	148.0595	.3394321	.4207121
#1	-.012123	788.9786	4669.999
#2	.2162975	788.0051	4691.667
#3	1.827536	793.0593	4709.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-18 OPERATOR:
RUN TIME: 06/11/10 16:31:55
COMMENT: SDG:1005132 CLIENTID:SB71D-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.045652	114893.6	134.2445	.8019974	7713.364	2.586977	3.690386
SDEV	.098839	2382.3	1.7328	.1619586	134.986	.420031	.666367
%RSD	216.5064	2.073460	1.290788	20.19440	1.750023	16.23638	18.05684
#1	.0684775	116163.4	133.5913	.9889287	7772.773	2.238552	4.363581
#2	-.102716	112145.4	132.9332	.7133371	7558.863	2.468997	3.031063
#3	-.102716	116372.0	136.2090	.7037263	7808.455	3.053382	3.676516
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	108.7437	11.41226	38524.25	1811.233	3759.211	88.43398	741.4235
SDEV	2.2676	.12619	679.84	45.570	74.455	1.82887	70.1926
%RSD	2.085226	1.105740	1.764711	2.515980	1.980590	2.068058	9.467271
#1	110.2572	11.34763	38825.03	1835.491	3799.869	88.78237	822.2663
#2	106.1366	11.33148	37745.91	1758.665	3673.280	86.45597	706.0349
#3	109.8374	11.55767	39001.83	1839.542	3804.485	90.06358	695.9693
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	19.86544	-2.84065	139.4656	46.58525	80.11589	4.230369	12.57801
SDEV	.53237	3.23545	4.0115	.92272	.93102	2.234743	1.32263
%RSD	2.679875	113.8981	2.876320	1.980710	1.162096	52.82619	10.51538
#1	19.26871	-5.42369	141.7257	47.03156	81.18688	6.714541	14.06851
#2	20.03592	-3.88666	134.8339	45.52423	79.49953	3.593046	12.12109
#3	20.29168	.7883987	141.8370	47.19996	79.66125	2.383519	11.54442
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.371841	79.78363	80.27858	-13.6923	13.17571	19.32643	.4849654
SDEV	2.915735	1.52824	1.32392	5.3086	.77357	1.00655	.4663950
%RSD	39.55233	1.915486	1.649151	38.77060	5.871195	5.208164	96.17079
#1	9.098472	80.28283	81.63500	-7.64429	13.88060	18.70673	.3989965
#2	4.005414	78.06821	80.21098	-15.8519	13.29841	18.78473	.9883641
#3	9.011638	80.99985	78.98975	-17.5808	12.34812	20.48782	.0675355
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.057186	742.2298	4724.956
SDEV	.835613	17.1061	68.435
%RSD	79.04124	2.304684	1.448363
#1	1.968992	752.1444	4664.400
#2	.8746078	722.4775	4799.200
#3	.3279583	752.0676	4711.267
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-19 OPERATOR:
RUN TIME: 06/11/10 16:39:03
COMMENT: SDG:1005132 CLIENTID:SB71-4-5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0684775	141453.1	308.1684	2.330594	851.5360	2.196561	6.652081
SDEV	.1234496	1425.9	2.9096	.032610	7.9618	.237764	.267599
%RSD	180.2776	1.008010	.9441509	1.399207	.9349908	10.82437	4.022790
#1	-.034239	139808.0	309.6065	2.340917	846.5081	2.454966	6.900206
#2	.0342388	142216.8	310.0789	2.294072	847.3844	1.987035	6.687501
#3	.2054325	142334.4	304.8198	2.356793	860.7156	2.147681	6.368535
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	107.9276	28.76493	20760.81	4338.978	2309.689	80.40408	621.8270
SDEV	1.6928	.22620	276.53	40.101	23.889	1.54716	84.2619
%RSD	1.568463	.7863685	1.331981	.9241995	1.034284	1.924230	13.55069
#1	106.4176	28.50642	20552.92	4315.371	2283.973	79.19004	612.3540
#2	107.6077	28.86187	20654.86	4385.279	2313.902	79.87608	542.7019
#3	109.7575	28.92650	21074.65	4316.283	2331.190	82.14613	710.4250
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	74.07282	-2.77508	113.9264	65.97990	76.41317	1.620915	13.48182
SDEV	.73785	3.22768	2.1023	1.38709	2.10373	1.190841	2.16333
%RSD	.9961171	116.3094	1.845279	2.102293	2.753097	73.46722	16.04627
#1	74.77590	-2.82385	111.6193	65.50942	77.66387	2.992696	12.33644
#2	73.30453	.4767075	114.4262	64.88923	73.98435	1.017269	15.97703
#3	74.13804	-5.97810	115.7338	67.54103	77.59128	.8527790	12.13200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.49719	71.89105	78.66740	-23.3714	14.09558	19.94340	.0858901
SDEV	1.17242	2.44198	2.10950	3.6014	1.34755	3.45826	1.303295
%RSD	8.686388	3.396777	2.681549	15.40944	9.560058	17.34040	1517.397
#1	14.75617	74.22137	79.37911	-20.1960	14.56690	18.33992	-.092732
#2	12.43666	69.35095	76.29410	-27.2845	15.14417	17.57794	-1.11888
#3	13.29874	72.10083	80.32900	-22.6337	12.57568	23.91236	1.469283
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.924478	771.9901	4400.933
SDEV	.342026	7.1467	52.384
%RSD	17.77240	.9257564	1.190297
#1	1.882162	764.5619	4398.267
#2	2.285693	772.5910	4349.933
#3	1.605579	778.8174	4454.600
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005132-20 OPERATOR:
RUN TIME: 06/11/10 16:49:52
COMMENT: SDG:1005132 CLIENTID:SB71D-4-5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0570646	191674.8	476.3342	2.204230	928.9791	3.270569	11.43225
SDEV	.0861657	1839.1	2.2004	.161997	10.4217	.038331	.51760
%RSD	150.9967	.9594743	.4619420	7.349351	1.121846	1.172007	4.527540
#1	.0684775	189623.3	478.5269	2.386707	917.0416	3.313846	10.97956
#2	.1369550	193175.6	474.1262	2.077363	936.2648	3.240890	11.32064
#3	-.034239	192225.6	476.3496	2.148619	933.6308	3.256971	11.99655
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	145.0719	35.36778	25599.13	6170.275	3367.635	105.5709	676.6807
SDEV	1.5542	.37173	136.68	62.194	10.388	.4178	20.5930
%RSD	1.071323	1.051046	.5339196	1.007963	.3084603	.3957866	3.043230
#1	143.4540	35.00155	25459.88	6242.059	3355.828	105.5579	700.2446
#2	145.2085	35.74477	25604.44	6132.527	3371.711	105.1597	667.6602
#3	146.5533	35.35701	25733.08	6136.240	3375.368	105.9951	662.1372
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	118.1483	.1573674	128.5702	98.36972	117.6832	2.525336	13.15980
SDEV	1.5830	4.221860	.6698	.31027	2.0071	.853078	1.57129
%RSD	1.339844	2682.805	.5209811	.3154094	1.705529	33.78078	11.94011
#1	116.3874	4.778019	128.1405	98.58928	115.7040	3.239488	11.36887
#2	119.4534	-.807117	129.3420	98.01476	119.7171	2.755825	14.30703
#3	118.6040	-3.49880	128.2281	98.50511	117.6285	1.580695	13.80349
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.521700	114.4016	119.3183	-21.4924	14.51357	20.98389	-.781924
SDEV	.728749	2.3597	2.8168	1.4329	1.84134	4.05655	1.166778
%RSD	7.653559	2.062683	2.360779	6.667094	12.68700	19.33176	149.2187
#1	8.680779	114.9044	116.1000	-21.4708	15.57349	23.17611	-1.75366
#2	9.968863	116.4694	121.3353	-22.9359	15.57984	23.47264	-1.10425
#3	9.915460	111.8310	120.5196	-20.0703	12.38738	16.30291	.5121324
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.7338876	1033.744	4640.889
SDEV	.1818032	12.708	9.753
%RSD	24.77262	1.229303	.2101457
#1	.9324781	1019.285	4629.733
#2	.5756536	1043.139	4647.800
#3	.6935311	1038.808	4645.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052615-BLK1 OPERATOR:
RUN TIME: 06/11/10 16:57:00
COMMENT: SDG:1005133 CLIENTID:PBS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.5478201	43.86534	.6537605	.7163878	539.1444	.4086753	1.407982
SDEV	.4165325	6.08473	.0836738	.1710989	.9529	.0961648	.301217
%RSD	76.03453	13.87137	12.79885	23.88356	.1767488	23.53085	21.39352
#1	.2739101	50.88593	.7357786	.9115784	538.1573	.4615547	1.741683
#2	.3423876	40.11565	.5685238	.6452560	539.2167	.2976750	1.326068
#3	1.027163	40.59443	.6569792	.5923290	540.0590	.4667961	1.156194
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-5.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.581420	.4847116	48.53271	-1397.43	35.87568	1.269825	481.0557
SDEV	.202657	.1569258	4.80386	4.75	2.11698	.086052	43.5192
%RSD	5.658552	32.37509	9.898184	.3397175	5.900867	6.776685	9.046610
#1	3.610611	.3123698	43.51327	-1392.83	36.65894	1.185013	518.2562
#2	3.767899	.5224115	53.08717	-1402.31	33.47869	1.267396	433.1977
#3	3.365752	.6193535	48.99768	-1397.15	37.48941	1.357065	491.7133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000
LOW	-5.00000	-5.00000	-100.000	-5000.00	-5000.00	-10.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.7995632	-7.64264	.3578716	3.902121	H3.992417	.0825324	H13.13039
SDEV	.4770768	3.52739	.2186423	.221267	1.108261	.8644822	1.03010
%RSD	59.66718	46.15408	61.09520	5.670435	27.75915	1047.446	7.845136
#1	.7253142	-4.98215	.4905201	3.929062	2.735559	1.016866	H14.31120
#2	.3639642	L-11.6438	.1055157	4.108685	H4.412340	-.688929	H12.41600
#3	1.309411	-6.30197	.4775788	3.668617	H4.829351	-.080339	H12.66398
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH	LC PASS	LC HIGH
HIGH	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000
LOW	-40.0000	-10.0000	-20.0000	-20.0000	-3.00000	-5.00000	-10.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.51737	13.46504	-.739444	-21.1695	10.68999	17.25112	.8301624
SDEV	.64558	1.91147	1.149843	4.5492	3.02364	1.22895	.3134055
%RSD	42.54615	14.19579	155.5010	21.48932	28.28477	7.123862	37.75232
#1	-2.14231	12.13801	-1.96129	-24.7956	13.90107	18.66777	.6616328
#2	-.852954	12.60115	.3214288	-22.6480	10.27152	16.61439	1.191774
#3	-1.55685	15.65596	-.578469	-16.0650	7.897386	16.47119	.6370803
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	10.00000					100.0000	50.00000
LOW	-10.0000					-100.000	-50.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.1620031	.1755192	4553.200
SDEV	.4898254	.0931697	37.435
%RSD	302.3556	53.08233	.8221719
#1	.0111466	.1996602	4511.800
#2	-.234650	.0726550	4563.133
#3	.7095125	.2542425	4584.667
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	5.000000	40.00000	
LOW	-5.00000	-40.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052615-BS1 OPERATOR:
RUN TIME: 06/11/10 17:04:09
COMMENT: SDG:1005133 CLIENTID:LCSS 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	803.5038	79550.93	1468.395	1298.936	37916.98	2037.351	623.7800
SDEV	3.7548	423.16	10.939	4.120	148.90	4.558	2.5297
%RSD	.4673034	.5319378	.7449935	.3171571	.3926901	.2237125	.4055392
#1	799.2011	80039.53	1455.798	1302.741	38065.00	2032.088	625.8071
#2	805.1929	79302.50	1473.882	1299.505	37918.70	2040.008	620.9451
#3	806.1174	79310.76	1475.505	1294.561	37767.22	2039.956	624.5877
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1110.000	108000.0	1840.000	1690.000	52200.00	2770.000	811.0000
LOW	490.0000	43900.00	1280.000	1170.000	34200.00	1880.000	561.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	605.3336	1377.173	158443.5	26809.40	20105.60	2867.955	4085.811
SDEV	4.8547	5.714	491.7	147.84	131.36	9.080	78.706
%RSD	.8019948	.4149077	.3103535	.5514494	.6533429	.3165878	1.926331
#1	609.9487	1373.047	158984.1	26930.24	20255.75	2875.747	4114.916
#2	600.2703	1374.776	158022.9	26644.56	20011.93	2857.984	4145.820
#3	605.7817	1383.695	158323.3	26853.40	20049.12	2870.132	3996.698
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	738.0000	1540.000	214000.0	30600.00	27300.00	3650.000	6580.000
LOW	477.0000	1080.000	74200.00	17000.00	17100.00	2430.000	2540.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	451.8159	1443.733	739.3210	1037.348	655.0234	685.6429	786.2303
SDEV	2.5078	4.306	3.5353	4.747	3.9968	1.4177	3.3324
%RSD	.5550548	.2982687	.4781765	.4576477	.6101769	.2067644	.4238493
#1	449.4733	1448.688	741.5642	1032.572	650.4086	684.0059	789.7065
#2	454.4614	1441.611	735.2457	1042.066	657.3795	686.4518	785.9211
#3	451.5129	1440.899	741.1530	1037.406	657.2821	686.4708	783.0632
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	1970.000	930.0000	1410.000	918.0000	1030.000	1730.000
LOW	404.0000	1190.000	517.0000	905.0000	619.0000	626.0000	30.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	729.3992	642.3095	661.3679	671.9568	692.4726	1641.892	-.918410
SDEV	2.3347	2.8980	5.2499	2.5576	3.3759	3.235	1.801044
%RSD	.3200899	.4511782	.7937971	.3806132	.4875142	.1970264	196.1046
#1	732.0093	640.2627	655.4711	674.8177	688.5901	1640.623	.3776252
#2	727.5099	641.0403	665.5339	669.8918	694.7164	1645.569	-.157889
#3	728.6783	645.6255	663.0988	671.1609	694.1113	1639.484	-2.97497
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	NOCHECK
HIGH	973.0000					2280.000	
LOW	645.0000					1220.000	

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	590.8296	3385.473	4807.866
SDEV	2.4396	9.498	31.236
%RSD	.4129147	.2805523	.6496863
#1	588.4082	3396.366	4771.933
#2	593.2871	3381.128	4823.133
#3	590.7936	3378.924	4828.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	705.0000	4510.000	
LOW	463.0000	1110.000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 17:11:18
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	103.0016	47022.25	958.5155	1001.096	48094.06	969.5772	983.4121
SDEV	.5983	665.99	3.4865	10.743	717.34	7.7758	14.3134
%RSD	.5808456	1.416339	.3637390	1.073108	1.491540	.8019754	1.455486
#1	103.5038	47517.40	955.6319	1012.748	48922.36	977.4692	999.7054
#2	103.1614	46265.10	957.5244	991.5851	47674.98	969.3393	977.6677
#3	102.3397	47284.26	962.3903	998.9556	47684.84	961.9231	972.8632
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	951.8998	1007.462	24235.66	51278.90	49798.39	975.6985	50226.95
SDEV	14.9976	3.386	226.03	463.63	343.12	15.1605	563.92
%RSD	1.575543	.3360564	.9326197	.9041351	.6890228	1.553809	1.122740
#1	967.7328	1010.887	24496.65	51357.89	50086.89	993.1109	50664.54
#2	937.9076	1004.117	24106.21	50780.85	49418.96	965.4283	49590.56
#3	950.0591	1007.381	24104.13	51697.96	49889.33	968.5562	50425.76
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	968.4421	976.1805	969.8641	1047.225	966.7694	989.8021	998.9688
SDEV	10.2777	6.4297	8.3872	15.289	6.1483	7.5132	3.4356
%RSD	1.061264	.6586593	.8647832	1.459965	.6359622	.7590609	.3439104
#1	979.8161	983.5075	976.0200	1062.781	971.8605	997.1788	998.5346
#2	965.6889	973.5554	960.3113	1046.676	959.9387	982.1595	995.7710
#3	959.8215	971.4788	973.2610	1032.217	968.5089	990.0678	1002.601
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1007.991	958.4352	970.9275	993.2735	988.0665	1012.864	980.6219
SDEV	5.935	7.1371	9.4819	9.7573	6.8639	8.857	6.8368
%RSD	.5888303	.7446662	.9765770	.9823403	.6946790	.8744069	.6971927
#1	1014.719	964.8367	975.3642	1004.280	993.6310	1023.078	987.4622
#2	1003.495	959.7294	960.0407	985.6860	980.3965	1007.317	973.7885
#3	1005.760	950.7395	977.3776	989.8541	990.1721	1008.197	980.6152
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1009.161	969.3826	4624.667
SDEV	3.637	10.9172	34.734
%RSD	.3604413	1.126203	.7510600
#1	1011.895	977.8609	4606.200
#2	1005.033	957.0642	4664.733
#3	1010.555	973.2228	4603.066
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 17:18:27
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.3538005	54.05367	.2578793	1.156789	382.5157	.4829570	1.264445
SDEV	.2279729	6.14873	.0334621	.204597	2.5012	.0567377	.120085
%RSD	64.43543	11.37524	12.97586	17.68664	.6538688	11.74799	9.497058
#1	.2396713	60.94164	.2554729	1.367981	381.1332	.5418177	1.134243
#2	.2054325	49.11844	.2924796	1.142891	381.0110	.4784411	1.288242
#3	.6162977	52.10091	.2256855	.9594956	385.4029	.4286122	1.370850
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.040293	.1615702	11.59702	-1423.23	17.44731	.4612598	25.19221
SDEV	.573416	.6334994	14.08179	3.41	3.83796	.1429839	27.71534
%RSD	55.12059	392.0892	121.4260	.2396031	21.99741	30.99856	110.0155
#1	.7616444	-.430855	7.671685	-1427.01	13.67753	.5032539	-4.85488
#2	.6594521	.0861704	-.105626	-1420.38	17.31443	.3019812	49.75618
#3	1.699782	.8293952	27.22500	-1422.31	21.34999	.5785441	30.67532
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.8088482	5.218605	.3376865	1.533199	.3545038	1.798304	2.502455
SDEV	1.000441	1.941152	.2469260	.961000	1.129133	.659176	1.639700
%RSD	123.6871	37.19675	73.12287	62.67942	318.5108	36.65544	65.52367
#1	.6634386	3.027099	.0938918	.6891837	1.490887	1.267100	1.395392
#2	-.110931	6.721846	.5876291	1.331308	.3398611	1.591804	1.725788
#3	1.874037	5.906870	.3315385	2.579106	-.767237	2.536008	4.386184
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.865422	3.091353	-1.01451	-.140213	2.763471	-2.34581	1.673515
SDEV	2.107555	.898969	2.12935	2.980600	.626026	.63097	1.979435
%RSD	112.9800	29.08011	209.8905	2125.771	22.65359	26.89764	118.2801
#1	1.064503	2.350270	1.059159	-3.18313	3.486198	-1.64939	-.223178
#2	.2757353	2.832416	-.907190	-.011405	2.389566	-2.87940	1.517289
#3	4.256028	4.091373	-3.19549	2.773895	2.414649	-2.50864	3.726435
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.544935	.3282940	4575.955
SDEV	.341342	.3508137	76.167
%RSD	22.09426	106.8596	1.664505
#1	1.698260	.2202794	4503.733
#2	1.782729	.0441891	4568.600
#3	1.153816	.7204135	4655.533
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005133-01 OPERATOR:
RUN TIME: 06/11/10 17:25:36
COMMENT: SDG:1005133 CLIENTID:SS73-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-1.02716	47488.87	126.4782	1.587201	4012.448	1.313843	3.788998
SDEV	.20827	262.27	1.0589	.295715	31.188	.327149	.477395
%RSD	20.27587	.5522736	.8371947	18.63125	.7772707	24.90019	12.59951
#1	-.787491	47682.03	127.5882	1.815820	3996.915	1.686111	3.834243
#2	-1.12988	47594.29	126.3671	1.692544	4048.351	1.183289	4.242160
#3	-1.16412	47190.30	125.4792	1.253238	3992.076	1.072129	3.290591
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	36.67206	6.899058	14045.61	-31.9336	1732.971	115.7443	618.0252
SDEV	.40305	.024681	137.56	23.2210	16.109	1.5263	56.2745
%RSD	1.099059	.3577411	.9793618	72.71656	.9295522	1.318669	9.105540
#1	37.07904	6.904445	14126.27	-7.52560	1745.702	116.9898	679.5187
#2	36.66408	6.872129	14123.78	-34.5249	1738.351	116.2015	569.0925
#3	36.27306	6.920601	13886.78	-53.7502	1714.861	114.0417	605.4642
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	14.41216	-2.85813	52.25912	47.18504	65.53513	1.541293	11.52546
SDEV	.93278	1.11329	1.27841	1.12931	1.48102	1.684079	.78593
%RSD	6.472206	38.95157	2.446290	2.393374	2.259894	109.2640	6.819066
#1	15.44974	-4.03224	53.35811	46.73677	66.34365	2.786147	11.70140
#2	13.64305	-1.81775	52.56314	48.46967	63.82583	2.212650	10.66648
#3	14.14370	-2.72441	50.85610	46.34869	66.43593	-.374918	12.20852
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.730609	68.45828	64.07283	-23.4874	14.03429	17.39579	.0828750
SDEV	2.359061	.58563	2.28984	3.9300	4.46217	3.39198	1.434469
%RSD	30.51584	.8554515	3.573814	16.73250	31.79478	19.49885	1730.882
#1	9.486599	67.81560	65.60584	-25.5949	16.95280	20.72189	1.710568
#2	8.656095	68.59748	61.44064	-25.9142	16.25236	13.94157	-.996797
#3	5.049134	68.96177	65.17202	-18.9532	8.897714	17.52392	-.465146
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.427983	667.3724	4666.489
SDEV	.199920	.6987	55.784
%RSD	14.00019	.1046992	1.195426
#1	1.640996	667.0489	4626.066
#2	1.398530	666.8941	4643.267
#3	1.244422	668.1743	4730.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052615-DUP1 OPERATOR:
RUN TIME: 06/11/10 17:32:45
COMMENT: SDG:1005133 CLIENTID:SS73-0-1D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.878795	47084.23	129.9783	1.707902	3924.772	1.076942	2.082043
SDEV	.098839	641.30	1.3428	.121097	40.209	.275281	.752062
%RSD	11.24708	1.362021	1.033090	7.090400	1.024482	25.56140	36.12137
#1	-.821730	47445.72	130.5100	1.842651	3944.347	.8798523	2.828282
#2	-.821730	47463.18	130.9738	1.608179	3951.444	1.391465	2.093556
#3	-.992924	46343.79	128.4511	1.672875	3878.524	.9595079	1.324290
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	40.44623	9.618829	19476.47	-4.93303	1709.646	115.1380	625.5504
SDEV	.87068	.294838	139.63	17.88398	19.609	.9492	8.8206
%RSD	2.152678	3.065216	.7169265	362.5355	1.146951	.8243775	1.410052
#1	41.35681	9.764241	19627.29	12.35335	1728.674	116.1283	635.3108
#2	40.36001	9.812714	19450.43	-3.79242	1710.759	115.0496	618.1495
#3	39.62187	9.279531	19351.69	-23.3600	1689.504	114.2361	623.1910
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.06014	-2.43627	57.50028	45.98356	66.17735	3.296508	13.56777
SDEV	.36236	3.22923	.60248	.42962	.95770	.936374	.79928
%RSD	2.406092	132.5485	1.047782	.9343009	1.447173	28.40502	5.891000
#1	15.34963	-4.65231	58.13578	46.38387	67.22450	2.365636	13.80278
#2	15.17702	1.268832	57.42764	46.03715	65.96169	3.285599	14.22321
#3	14.65376	-3.92532	56.93742	45.52965	65.34587	4.238288	12.67734
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.141482	72.47383	63.03083	-18.9474	14.39914	16.62064	1.216512
SDEV	1.997657	2.00800	1.42087	7.0403	2.52067	2.17081	2.458868
%RSD	27.97259	2.770655	2.254240	37.15725	17.50569	13.06093	202.1244
#1	6.492416	73.96718	63.85518	-27.0389	17.04316	18.29899	3.997131
#2	9.382957	70.19109	63.84716	-14.2213	12.02326	14.16909	.3233446
#3	5.549072	73.26323	61.39017	-15.5821	14.13101	17.39385	-.670939
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.322601	649.5972	4552.956
SDEV	.487359	6.0055	43.335
%RSD	36.84854	.9244943	.9517897
#1	1.338813	652.4612	4512.667
#2	1.801651	653.6346	4547.400
#3	.8273378	642.6959	4598.800
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052615-MS1 OPERATOR:
RUN TIME: 06/11/10 17:39:53
COMMENT: SDG:1005133 CLIENTID:SS73-0-1S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	45.27505	60304.52	2033.044	49.20951	3903.459	47.33564	474.2326
SDEV	.32361	352.01	11.874	.16520	6.382	.10904	4.4330
%RSD	.7147704	.5837154	.5840405	.3356995	.1635057	.2303610	.9347802
#1	45.16092	60178.08	2024.158	49.39893	3900.145	47.32026	470.3988
#2	45.02397	60702.29	2046.529	49.13422	3910.816	47.45155	473.2121
#3	45.64027	60033.20	2028.444	49.09536	3899.415	47.23510	479.0869
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	230.6403	258.2435	15539.96	999.2734	2127.503	581.6006	589.2696
SDEV	2.4054	.6581	87.34	9.2443	5.651	2.7681	47.3634
%RSD	1.042939	.2548323	.5620600	.9250990	.2656169	.4759372	8.037649
#1	233.4086	257.5487	15634.19	1009.191	2134.013	584.7339	553.3594
#2	229.4517	258.3243	15461.71	997.7346	2123.871	579.4872	571.5017
#3	229.0605	258.8574	15523.98	990.8951	2124.624	580.5807	642.9478
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	473.5050	37.33907	542.2817	500.4798	82.98387	9.643189	372.1981
SDEV	.6763	.69583	3.1752	1.9552	1.57775	1.174990	1.0427
%RSD	.1428338	1.863550	.5855234	.3906657	1.901278	12.18466	.2801453
#1	473.4057	37.79328	538.6381	500.7393	84.69375	9.970909	371.9749
#2	472.8838	36.53799	544.4574	498.4078	82.67348	10.61953	373.3343
#3	474.2255	37.68594	543.7495	502.2923	81.58437	8.339131	371.2850
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	41.45581	86.50176	81.22425	-12.2013	20.54639	932.9554	920.9086
SDEV	.65814	3.68270	.91021	1.6121	2.10092	5.9817	7.8038
%RSD	1.587582	4.257367	1.120612	13.21213	10.22523	.6411516	.8474036
#1	41.40993	90.75410	81.66476	-14.0627	21.96699	938.0481	929.7529
#2	40.82180	84.35561	81.83039	-11.2577	21.53909	926.3682	914.9920
#3	42.13569	84.39555	80.17759	-11.2835	18.13307	934.4501	917.9810
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	954.8607	1675.270	4528.511
SDEV	3.2454	1.112	33.665
%RSD	.3398783	.0663863	.7434027
#1	954.5909	1674.315	4490.400
#2	951.7587	1676.491	4540.933
#3	958.2326	1675.005	4554.200
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052615-MSD1 OPERATOR:
RUN TIME: 06/11/10 17:47:02
COMMENT: SDG:1005133 CLIENTID:SS73-0-1SD 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	42.84410	60641.19	2070.927	48.36398	5375.696	45.35186	457.4377
SDEV	.52413	686.75	15.857	.26633	42.267	.47465	4.2736
%RSD	1.223332	1.132486	.7656869	.5506687	.7862654	1.046600	.9342493
#1	42.52454	61071.40	2054.444	48.15768	5363.681	45.07041	452.6094
#2	42.55878	61003.00	2072.262	48.26962	5340.736	45.08530	460.7347
#3	43.44899	59849.18	2086.073	48.66464	5422.669	45.89988	458.9690
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	219.3659	264.7547	15471.30	1020.058	2125.309	567.5463	582.6107
SDEV	3.0775	1.4412	88.26	30.200	21.075	3.9340	9.1879
%RSD	1.402917	.5443664	.5704538	2.960653	.9916048	.6931607	1.577030
#1	220.0766	263.6561	15414.15	1016.923	2136.771	564.8478	572.0588
#2	222.0259	264.2216	15572.95	1051.703	2138.169	572.0602	586.9318
#3	215.9952	266.3866	15426.81	991.5468	2100.987	565.7309	588.8415
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	458.2451	38.84031	517.7385	472.2700	94.72691	10.79650	365.3084
SDEV	1.8196	2.22945	7.1038	7.4204	2.19805	3.66566	3.7102
%RSD	.3970772	5.740039	1.372090	1.571214	2.320412	33.95231	1.015631
#1	456.7868	39.34157	521.7512	466.7228	93.20829	13.64556	361.7471
#2	457.6643	40.77647	521.9280	469.3883	97.24741	6.661028	369.1514
#3	460.2842	36.40291	509.5364	480.6990	93.72502	12.08292	365.0265
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	43.41533	99.81587	92.18285	-8.78354	20.56912	900.9386	917.2581
SDEV	.77644	3.54088	3.69249	5.32457	2.92310	5.0947	2.5795
%RSD	1.788404	3.547415	4.005619	60.61993	14.21110	.5654934	.2812227
#1	43.98200	96.46780	91.57758	-5.54701	23.22471	897.1012	916.8647
#2	42.53031	99.45750	96.14059	-14.9289	17.43706	898.9957	920.0117
#3	43.73368	103.5223	88.83040	-5.87469	21.04557	906.7189	914.8978
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	938.2740	1572.356	4436.489
SDEV	4.8588	13.521	63.748
%RSD	.5178481	.8599052	1.436892
#1	934.4987	1581.888	4408.333
#2	936.5674	1578.299	4391.667
#3	943.7559	1556.882	4509.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: SDI1005133-01 OPERATOR:
RUN TIME: 06/11/10 17:54:10
COMMENT: SDG:1005133 CLIENTID:SS73-0-1L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.273910	16633.69	43.59080	1.200954	1567.965	.1934978	.5985221
SDEV	.181174	126.84	.22010	.025298	8.344	.1151989	.2100423
%RSD	66.14378	.7625572	.5049339	2.106524	.5321721	59.53502	35.09349
#1	-.342388	16560.00	43.77839	1.178734	1564.153	.1100602	.5029558
#2	-.068478	16780.15	43.34850	1.195641	1577.534	.1454980	.8393547
#3	-.410865	16560.91	43.64551	1.228486	1562.207	.3249352	.4532558
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	12.55892	1.868832	4789.623	-936.697	634.1684	39.17836	248.3240
SDEV	.60625	.197442	33.137	.841	.4354	.59180	24.3458
%RSD	4.827247	10.56502	.6918431	.0898239	.0686572	1.510522	9.804031
#1	12.10864	1.653404	4784.834	-937.007	633.9728	39.01031	223.5179
#2	13.24826	1.911917	4824.893	-937.340	634.6673	39.83601	249.2724
#3	12.31987	2.041174	4759.140	-935.745	633.8651	38.68876	272.1817
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	5.353525	-1.23103	17.59548	16.45373	24.07736	1.502161	5.556727
SDEV	.663115	2.56842	.31868	.11858	1.10990	2.142123	1.009271
%RSD	12.38652	208.6395	1.811125	.7206966	4.609703	142.6028	18.16305
#1	5.300254	-3.83292	17.84091	16.34194	22.93042	2.811158	5.513242
#2	6.041669	1.302559	17.71020	16.44114	24.15559	2.665240	6.587039
#3	4.718652	-1.16274	17.23532	16.57810	25.14607	-.969915	4.569902
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.840318	27.14344	22.54389	-7.52856	6.008127	5.385040	.8494483
SDEV	.598446	.86165	1.42173	4.55905	1.118566	2.631387	1.129978
%RSD	32.51860	3.174432	6.306521	60.55676	18.61755	48.86476	133.0249
#1	2.457640	26.22674	21.28212	-5.82093	7.118112	6.933540	2.147870
#2	1.262729	27.93673	22.26522	-4.06984	6.025097	2.346766	.3117087
#3	1.800584	27.26685	24.08432	-12.6949	4.881172	6.874816	.0887664
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.807437	226.8273	4599.155
SDEV	1.247976	2.3013	14.935
%RSD	69.04671	1.014543	.3247247
#1	2.938959	226.2817	4611.066
#2	2.014456	229.3523	4582.400
#3	.4688969	224.8478	4603.999
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 0052615-PS1 OPERATOR:
RUN TIME: 06/11/10 18:01:18
COMMENT: SDG:1005133 CLIENTID:SS73-0-1A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.39329	48569.36	521.1340	11.76619	3943.705	10.48075	101.9065
SDEV	.20827	363.42	10.6096	.22473	6.878	.26449	.6897
%RSD	1.197396	.7482412	2.035868	1.909981	.1744004	2.523568	.6767799
#1	17.15362	48965.78	533.0383	12.02323	3936.325	10.56177	101.1185
#2	17.49601	48490.38	512.6758	11.66853	3944.857	10.18523	102.2002
#3	17.53025	48251.94	517.6881	11.60681	3949.935	10.69525	102.4006
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	55.68706	60.89052	14097.79	13.36046	1739.893	145.3101	682.2983
SDEV	.48129	.32368	62.63	23.51502	10.471	1.0928	23.9904
%RSD	.8642817	.5315788	.4442823	176.0046	.6018318	.7520223	3.516115
#1	55.64146	60.86898	14164.42	40.50917	1748.461	146.5134	685.5299
#2	56.18954	61.22443	14088.84	-.622125	1742.998	145.0372	704.5092
#3	55.23020	60.57815	14040.11	.1943282	1728.221	144.3796	656.8560
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	91.14682	14.59038	151.9889	84.17893	68.96343	10.62028	123.3282
SDEV	.98798	1.47672	.5943	.56224	.74839	.41889	3.2837
%RSD	1.083938	10.12117	.3910292	.6679103	1.085203	3.944264	2.662590
#1	91.91808	12.96026	152.5396	83.52999	68.97369	10.13861	121.6626
#2	90.03320	14.97214	152.0680	84.51991	69.70664	10.89944	127.1109
#3	91.48918	15.83872	151.3589	84.48689	68.20996	10.82278	121.2110
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	27.38343	71.72022	67.58385	-14.3834	23.10070	17.40788	.2305278
SDEV	2.17556	1.43084	.46828	2.3032	1.50755	1.80817	1.177332
%RSD	7.944804	1.995027	.6928899	16.01256	6.526007	10.38706	510.7117
#1	27.69920	72.16119	67.37893	-13.5883	21.98157	18.69794	1.583925
#2	25.06724	72.87867	68.11967	-16.9788	24.81499	18.18457	-.557300
#3	29.38386	70.12080	67.25297	-12.5832	22.50554	15.34113	-.335041
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.510006	670.0195	4505.222
SDEV	.169516	3.7598	41.173
%RSD	6.753616	.5611523	.9138859
#1	2.705706	672.8310	4457.999
#2	2.408723	671.4788	4533.600
#3	2.415588	665.7488	4524.066
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005133-02 OPERATOR:
RUN TIME: 06/11/10 18:08:26
COMMENT: SDG:1005133 CLIENTID:SB74-4-5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1940196	67560.34	82.97392	1.226868	715.0793	1.396898	3.898307
SDEV	.1296258	269.48	.47724	.255031	2.6304	.128120	.186202
%RSD	66.81068	.3988786	.5751727	20.78716	.3678414	9.171736	4.776495
#1	.3423876	67485.24	82.42391	1.464967	712.0447	1.264795	4.113223
#2	.1369550	67859.40	83.21927	.9577438	716.7073	1.520623	3.785396
#3	.1027163	67336.36	83.27858	1.257892	716.4860	1.405275	3.796303
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	87.57631	26.37907	19315.35	2998.042	2820.743	55.25839	538.5107
SDEV	.83747	.37557	109.84	21.120	16.483	.32733	20.0039
%RSD	.9562705	1.423746	.5686924	.7044730	.5843483	.5923699	3.714671
#1	88.42283	25.95360	19407.65	3019.380	2836.997	55.62724	543.4181
#2	87.55790	26.66451	19193.86	2977.146	2804.041	55.00250	516.5097
#3	86.74820	26.51910	19344.54	2997.601	2821.191	55.14542	555.6041
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	11.32190	-6.83070	97.37981	39.20435	56.51047	3.416884	12.43184
SDEV	.20764	.87802	.47206	.47795	1.01165	1.104931	1.84699
%RSD	1.833971	12.85404	.4847656	1.219136	1.790193	32.33738	14.85692
#1	11.49733	-6.04796	97.56952	38.91593	55.98773	2.207664	10.80542
#2	11.37572	-7.78011	97.72750	39.75606	57.67654	4.373932	12.05029
#3	11.09264	-6.66403	96.84240	38.94107	55.86713	3.669056	14.43980
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	13.41506	60.31113	54.61006	-16.5762	13.39583	20.32545	-.201681
SDEV	1.37468	2.06215	2.09844	3.7798	2.44111	1.82717	1.356032
%RSD	10.24729	3.419194	3.842595	22.80244	18.22293	8.989553	672.3648
#1	11.85684	62.67418	52.64656	-15.4153	11.00329	22.03245	1.176559
#2	14.45629	59.38351	56.82143	-13.5130	13.30143	18.39810	-.247245
#3	13.93204	58.87569	54.36219	-20.8003	15.88278	20.54580	-1.53436
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	3.502677	730.1475	4644.088
SDEV	.648500	2.7059	38.394
%RSD	18.51440	.3705974	.8267217
#1	4.009279	728.1428	4602.733
#2	2.771812	733.2254	4678.600
#3	3.726941	729.0745	4650.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005133-03 OPERATOR:
RUN TIME: 06/11/10 18:15:34
COMMENT: SDG:1005133 CLIENTID:SS75-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2168455	97784.82	98.61661	1.695964	3001.718	1.516702	3.094840
SDEV	.4141805	859.93	1.12535	.055152	10.092	.449990	.105692
%RSD	191.0026	.8794139	1.141132	3.251933	.3362062	29.66898	3.415116
#1	.0684775	97234.73	98.68032	1.676469	3001.586	1.762275	3.104322
#2	-.102716	98775.78	97.46077	1.758215	2991.693	.9973531	2.984726
#3	.6847752	97343.95	99.70875	1.653207	3011.876	1.790477	3.195472
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	91.00572	6.554375	19435.78	1794.356	2842.519	68.43424	534.5850
SDEV	1.52795	.495453	64.44	33.329	12.609	.44482	70.3314
%RSD	1.678961	7.559124	.3315307	1.857462	.4435811	.6499975	13.15626
#1	91.45705	6.807503	19509.29	1762.580	2846.921	68.66731	469.1387
#2	92.25717	6.872129	19408.97	1829.047	2852.337	68.71410	525.6657
#3	89.30295	5.983493	19389.08	1791.439	2828.299	67.92132	608.9506
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	17.46013	-3.17697	112.1715	31.36672	57.99336	4.099017	9.474170
SDEV	.93215	5.32717	.5923	.97754	1.15715	1.378772	4.403926
%RSD	5.338742	167.6805	.5280613	3.116483	1.995323	33.63665	46.48351
#1	18.51889	-6.47731	112.7978	32.08805	57.08754	5.388132	12.69735
#2	17.09863	-6.02231	112.0967	31.75795	59.29693	4.263562	11.26888
#3	16.76288	2.968697	111.6202	30.25417	57.59560	2.645356	4.456276
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.951567	64.85773	54.56300	-12.8085	12.53735	19.96250	.5079379
SDEV	5.161034	13.46268	7.41438	12.1532	7.86088	4.09440	1.359002
%RSD	130.6073	20.75725	13.58867	94.88397	62.69965	20.51045	267.5527
#1	9.549742	56.99120	57.13220	-17.5396	16.83207	18.50321	.3645169
#2	2.922112	57.17926	60.35106	-21.8847	17.31531	16.79767	-.773665
#3	-.617153	80.40271	46.20574	.9987764	3.464684	24.58662	1.932962
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.801708	765.3850	4388.466
SDEV	.608740	4.3386	44.208
%RSD	33.78685	.5668498	1.007364
#1	1.639625	764.1072	4390.667
#2	1.290414	770.2189	4343.200
#3	2.475086	761.8287	4431.533
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005133-04 OPERATOR:
RUN TIME: 06/11/10 18:22:43
COMMENT: SDG:1005133 CLIENTID:SS75-3.5-4.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.068478	135374.4	125.8074	1.551570	635.9824	2.843117	1.626387
SDEV	.102716	1514.3	.6335	.366323	5.4507	.238172	.200544
%RSD	150.0000	1.118618	.5035778	23.60981	.8570597	8.377126	12.33062
#1	-.171194	133765.7	125.1710	1.967778	629.6919	3.029258	1.562616
#2	-.068478	135585.0	126.4380	1.278117	638.9449	2.574720	1.465483
#3	.0342388	136772.3	125.8131	1.408816	639.3102	2.925374	1.851061
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	136.0432	6.279706	50127.67	3676.507	3781.311	82.90459	452.0063
SDEV	1.7853	.246803	569.80	16.852	40.501	.99051	10.2300
%RSD	1.312268	3.930170	1.136688	.4583722	1.071077	1.194757	2.263243
#1	135.7004	6.225849	49931.43	3687.012	3767.686	82.28847	443.9947
#2	134.4543	6.548990	49681.93	3657.069	3749.380	82.37816	463.5297
#3	137.9751	6.064278	50769.65	3685.439	3826.867	84.04717	448.4946
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	16.95820	-1.23309	133.7424	35.69470	79.29543	2.951554	10.97396
SDEV	1.06673	.46931	2.2517	.78584	1.27414	1.348038	1.57413
%RSD	6.290371	38.05989	1.683581	2.201562	1.606824	45.67214	14.34426
#1	16.11507	-1.05536	131.7856	35.21017	78.11739	4.044225	10.39821
#2	16.60209	-.878609	133.2381	35.27253	79.12119	3.365301	9.768760
#3	18.15743	-1.76532	136.2034	36.60139	80.64773	1.445136	12.75491
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.841305	75.39507	81.23958	-17.0247	12.92202	17.62460	-.447505
SDEV	.915181	1.93120	.95317	3.8230	2.93311	1.06237	1.547958
%RSD	13.37728	2.561437	1.173282	22.45593	22.69854	6.027795	345.9086
#1	7.002170	73.72985	80.30484	-14.2526	13.17624	16.49252	.6642656
#2	5.856358	74.94321	81.20373	-21.3860	15.71974	17.78147	.2086940
#3	7.665388	77.51212	82.21017	-15.4354	9.870069	18.59983	-2.21547
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.207629	1029.168	4532.222
SDEV	.126686	4.527	24.630
%RSD	10.49048	.4398800	.5434331
#1	1.216424	1024.402	4510.667
#2	1.076775	1033.410	4559.066
#3	1.329689	1029.691	4526.933
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005133-05 OPERATOR:
RUN TIME: 06/11/10 18:29:51
COMMENT: SDG:1005133 CLIENTID:SS63-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.068478	19364.99	89.79229	1.302805	5604.080	.9453704	1.841331
SDEV	.224519	240.41	2.08593	.188342	105.832	.0951577	.423682
%RSD	327.8719	1.241455	2.323066	14.45663	1.888476	10.06566	23.00952
#1	-.308149	19158.16	89.49967	1.279558	5501.601	.9321024	1.576495
#2	-.034239	19628.76	92.00908	1.501692	5712.973	1.046466	2.329983
#3	.1369550	19308.06	87.86811	1.127167	5597.665	.8575430	1.617516
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	27.69598	10.02276	14397.35	502.5179	1281.044	117.2312	621.3303
SDEV	1.51000	.13225	392.16	23.9476	32.415	3.6458	72.5942
%RSD	5.452063	1.319508	2.723807	4.765514	2.530367	3.109960	11.68368
#1	26.16999	10.16817	14014.15	486.1882	1258.189	114.1396	617.8396
#2	29.18947	9.990440	14797.89	530.0087	1318.142	121.2516	695.6069
#3	27.72849	9.909656	14380.00	491.3568	1266.801	116.3024	550.5444
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	6.667039	-4.14075	47.19015	36.36898	85.04394	3.483068	11.99359
SDEV	.812174	4.06312	1.05990	1.17430	1.36633	.177830	1.25638
%RSD	12.18193	98.12514	2.246028	3.228845	1.606610	5.105549	10.47545
#1	6.022049	-5.38606	46.20111	35.26957	83.66219	3.615146	10.54323
#2	7.579125	.3992786	48.30897	37.60604	86.39430	3.553190	12.74783
#3	6.399944	-7.43547	47.06038	36.23134	85.07533	3.280867	12.68970
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.019228	91.91285	81.61156	-19.2849	14.84722	16.81524	.0661128
SDEV	1.768611	1.02267	2.34904	.5171	.31813	2.34286	1.476167
%RSD	58.57825	1.112654	2.878314	2.681207	2.142692	13.93297	2232.800
#1	1.117588	91.94641	79.52325	-18.7422	14.77432	19.51939	-1.00112
#2	3.325217	90.87381	84.15478	-19.7719	15.19547	15.53136	1.750742
#3	4.614880	92.91833	81.15665	-19.3406	14.57186	15.39495	-.551284
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.618383	832.0422	4422.089
SDEV	.782378	13.0195	52.805
%RSD	48.34322	1.564761	1.194117
#1	2.457658	825.0172	4457.533
#2	.9092135	847.0652	4361.400
#3	1.488277	824.0440	4447.333
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 06/11/10 18:37:00
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	106.2201	46401.58	950.7639	1013.862	49288.22	993.8590	1003.131
SDEV	.4128	825.55	5.5483	14.592	724.77	11.2522	16.338
%RSD	.3885965	1.779148	.5835603	1.439202	1.470480	1.132170	1.628680
#1	106.6537	46807.69	944.7833	1026.085	50013.21	1003.072	1020.123
#2	106.1744	46945.42	951.7647	1017.795	49287.79	997.1874	1001.735
#3	105.8320	45451.64	955.7437	997.7075	48563.66	981.3181	987.5369
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	975.4756	1023.307	24828.84	49978.20	50015.39	994.8095	49763.20
SDEV	24.9693	8.019	477.39	690.82	843.97	17.5782	717.24
%RSD	2.559703	.7836474	1.922716	1.382233	1.687419	1.766994	1.441309
#1	998.3718	1030.130	25214.91	50184.41	50643.31	1012.340	49915.20
#2	979.2028	1025.315	24976.56	50542.42	50346.84	994.9050	50392.26
#3	948.8522	1014.474	24295.06	49207.76	49056.00	977.1837	48982.14
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	986.4775	980.8986	969.1605	1096.426	983.9535	986.2633	997.6314
SDEV	11.5228	12.7020	23.2035	17.646	14.6600	16.0327	5.9090
%RSD	1.168078	1.294931	2.394189	1.609423	1.489904	1.625598	.5923044
#1	996.6307	980.3338	989.2836	1113.595	991.3021	993.7339	999.7272
#2	988.8480	993.8736	974.4188	1097.343	993.4857	997.1974	1002.207
#3	973.9537	968.4885	943.7790	1078.339	967.0726	967.8587	990.9601
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1016.457	973.9770	988.9314	990.5563	984.1177	1036.363	984.6254
SDEV	14.284	14.9413	15.5351	13.8581	19.0150	11.752	12.3964
%RSD	1.405250	1.534046	1.570901	1.399017	1.932186	1.133935	1.258995
#1	1021.939	974.2210	999.8270	1004.585	988.3143	1045.038	987.5850
#2	1027.187	988.7949	995.8247	990.2094	1000.684	1041.063	995.2740
#3	1000.244	958.9153	971.1424	976.8750	963.3549	1022.989	971.0170
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	1000.000					1000.000	1000.000
RANGE	104.0000					104.0000	104.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1016.644	975.6028	4750.222
SDEV	5.711	14.5086	40.505
%RSD	.5617863	1.487147	.8526935
#1	1020.163	980.4689	4752.999
#2	1019.715	987.0529	4708.400
#3	1010.054	959.2866	4789.267
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	
RANGE	104.0000	104.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 06/11/10 18:44:09
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.0114129	31.79455	.0635870	.6461589	372.9193	.3418836	1.550895
SDEV	.2569808	2.68576	.0496437	.1933819	.7602	.1151118	.511697
%RSD	2251.666	8.447242	78.07201	29.92791	.2038498	33.66988	32.99369
#1	.2739101	29.74875	.1181225	.5339512	373.5987	.4745100	1.978243
#2	-.239671	30.79894	.0516132	.5350694	373.0610	.2679275	1.690584
#3	.0000000	34.83595	.0210253	.8694561	372.0983	.2832133	.9838593
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.091318	-.376998	7.303159	-1438.84	5.584929	.3557227	-17.3784
SDEV	.428587	.165823	4.852478	5.64	2.492443	.0510877	56.5910
%RSD	39.27242	43.98523	66.44355	.3921747	44.62802	14.36166	325.6400
#1	1.586201	-.236970	7.985346	-1432.38	8.202970	.3821517	41.78897
#2	.8417280	-.333912	2.145687	-1441.39	5.311123	.3881819	-22.9421
#3	.8460245	-.560111	11.77844	-1442.77	3.240694	.2968346	-70.9821
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.1341992	2.622803	-.007326	1.458991	.8025377	.1518754	3.325571
SDEV	.4154430	.595320	.255456	.234142	1.236524	1.460870	1.028458
%RSD	309.5719	22.69784	3487.154	16.04819	154.0767	961.8873	30.92575
#1	-.208379	2.442174	.1924356	1.729348	.0377090	1.276683	4.274234
#2	.0146737	2.138717	-.295167	1.322206	.1407925	.6781625	2.232568
#3	.5963028	3.287517	.0807543	1.325420	2.229112	-1.49922	3.469910
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	1.322427	.8771146	.7627253	-2.69870	1.572447	-2.72836	-.746972
SDEV	1.217381	1.701202	1.923049	2.73414	1.124041	2.27968	1.012578
%RSD	92.05656	193.9544	252.1286	101.3132	71.48359	83.55492	135.5577
#1	.2560431	2.364426	-1.12646	-1.81150	2.815907	-.278319	-1.10012
#2	2.648800	-.977854	.6966932	-.518340	1.272933	-4.78700	.3948896
#3	1.062439	1.244772	2.717940	-5.76626	.6285004	-3.11977	-1.53568
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	QC PASS
VALUE	.0000000					.0000000	.0000000
RANGE	10.00000					100.0000	50.00000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.4818584	.2673713	4679.689
SDEV	1.109994	.0759952	48.080
%RSD	230.3569	28.42310	1.027413
#1	1.697452	.1953068	4731.200
#2	-.477842	.2600411	4671.866
#3	.2259653	.3467660	4635.999
ERRORS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	
RANGE	10.00000	40.00000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005133-06 OPERATOR:
RUN TIME: 06/11/10 18:51:18
COMMENT: SDG:1005133 CLIENTID:SS63-5.5-6.5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.136955	110300.3	130.0200	1.655156	1105.445	2.335854	2.813150
SDEV	.149243	1477.6	1.4579	.348942	4.157	.245053	.668413
%RSD	108.9725	1.339576	1.121262	21.08212	.3760909	10.49093	23.76030
#1	-.068478	111490.8	131.6594	2.025450	1103.667	2.437350	3.556198
#2	-.308149	110763.5	129.5313	1.607567	1110.196	2.056359	2.622415
#3	-.034239	108646.7	128.8693	1.332451	1102.473	2.513851	2.260836
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	130.9679	14.01893	37314.44	3386.099	3008.571	61.92786	975.2306
SDEV	1.8645	.36926	407.30	90.230	43.261	.77195	73.8195
%RSD	1.423659	2.634031	1.091528	2.664719	1.437927	1.246529	7.569439
#1	130.8021	13.59346	37521.11	3475.117	3040.961	62.23470	1055.767
#2	132.9097	14.25590	37576.98	3388.475	3025.311	62.49922	959.1424
#3	129.1917	14.20743	36845.24	3294.704	2959.442	61.04968	910.7820
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	18.69286	-2.78807	204.1606	44.99683	53.78534	1.669711	13.66909
SDEV	.50206	.78125	2.9625	.24510	1.00754	.370254	2.94302
%RSD	2.685822	28.02127	1.451043	.5446960	1.873260	22.17470	21.53046
#1	19.22975	-2.99051	206.5740	45.16436	54.67409	1.976100	12.61289
#2	18.23501	-3.44818	205.0535	45.11061	52.69079	1.774746	11.39993
#3	18.61381	-1.92552	200.8545	44.71552	53.99115	1.258288	16.99446
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	15.21628	54.39944	53.47561	-19.3421	12.15719	18.43661	2.103041
SDEV	1.65207	1.81806	.89123	1.9335	.93140	2.74993	1.739051
%RSD	10.85722	3.342061	1.666606	9.996556	7.661299	14.91558	82.69218
#1	13.36111	56.48018	53.76930	-20.2462	13.06784	21.50805	3.093074
#2	15.75908	53.11774	52.47460	-17.1222	11.20635	16.20317	3.121025
#3	16.52866	53.60039	54.18293	-20.6580	12.19738	17.59863	.0950232
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	2.562699	631.4598	4488.622
SDEV	.497289	4.5955	89.511
%RSD	19.40490	.7277635	1.994168
#1	2.994302	631.5281	4397.533
#2	2.674901	636.0208	4491.866
#3	2.018895	626.8305	4576.466
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005133-07 OPERATOR:
RUN TIME: 06/11/10 18:58:27
COMMENT: SDG:1005133 CLIENTID:SS61-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	.2396713	32622.64	49.79579	.9838895	949.0007	1.128926	2.440437
SDEV	.0905872	123.01	.25924	.2053054	5.3533	.186634	.570306
%RSD	37.79645	.3770636	.5206080	20.86672	.5640939	16.53202	23.36902
#1	.3081488	32573.24	49.98438	1.151665	942.9354	.9834297	2.600037
#2	.1369550	32762.67	49.90283	1.045049	951.0007	1.339353	2.913941
#3	.2739101	32532.01	49.50017	.7549541	953.0660	1.063996	1.807334
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	33.52818	5.439539	16203.08	-488.735	750.9816	86.23689	523.2615
SDEV	.58140	.235435	79.92	4.694	7.9415	.37271	21.6413
%RSD	1.734053	4.328224	.4932148	.9604158	1.057479	.4321956	4.135854
#1	33.46312	5.175640	16214.97	-489.658	752.6749	86.30182	537.5159
#2	34.13938	5.514939	16276.39	-483.648	757.9398	86.57288	498.3592
#3	32.98206	5.628038	16117.89	-492.899	742.3300	85.83598	533.9095
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	9.835181	-6.32051	44.70724	39.76337	47.82513	2.757431	12.14608
SDEV	.647941	2.33509	1.38753	.33357	.91119	.619751	1.56218
%RSD	6.587992	36.94472	3.103597	.8388996	1.905246	22.47565	12.86164
#1	9.087006	-4.26641	44.02233	40.13589	46.99990	3.458026	12.84401
#2	10.21082	-8.86023	46.30405	39.49228	48.80299	2.280776	13.23763
#3	10.20771	-5.83488	43.79533	39.66195	47.67249	2.533491	10.35660
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.193326	55.26562	44.10752	-19.2392	13.73666	18.00710	.4738667
SDEV	1.731661	1.81044	2.00268	1.4208	.39581	2.00335	.7808032
%RSD	54.22750	3.275887	4.540440	7.385153	2.881404	11.12532	164.7728
#1	3.240968	57.24055	41.88430	-17.8979	14.11735	17.47384	.1985658
#2	1.438336	54.87183	45.77019	-20.7281	13.76534	20.22312	-.131995
#3	4.900675	53.68449	44.66808	-19.0917	13.32729	16.32434	1.355030
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	1.127388	831.5707	4636.466
SDEV	.659241	6.7545	41.006
%RSD	58.47506	.8122605	.8844339
#1	1.886448	824.6580	4601.066
#2	.6981568	838.1551	4626.933
#3	.7975604	831.8989	4681.400
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	

METHOD: ALT-P4Q2 SAMPLE NAME: 1005133-08 OPERATOR:
RUN TIME: 06/11/10 19:05:35
COMMENT: SDG:1005133 CLIENTID:SS61-D-0-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	-.000000	21932.66	36.69917	.6257582	884.9790	.8563244	3.104328
SDEV	.271762	99.08	.16062	.0727095	5.6727	.0370921	.445431
%RSD	11E9	.4517326	.4376770	11.61943	.6409934	4.331550	14.34871
#1	-.205433	21819.79	36.87486	.6524472	879.0512	.8216846	2.734551
#2	.3081488	22005.25	36.55985	.6813517	890.3563	.8518295	3.598825
#3	-.102716	21972.95	36.66280	.5434757	885.5295	.8954592	2.979608
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	1000.000	400000.0	50000.00	5000.000	700000.0	10000.00	50000.00
LOW	-10.0000	-200.000	-200.000	-5.00000	-1000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	24.67716	5.590338	9656.874	-587.631	623.5454	74.56547	500.3932
SDEV	.79707	.065297	80.319	2.497	9.5096	.35505	32.7547
%RSD	3.229995	1.168041	.8317248	.4249398	1.525087	.4761608	6.545788
#1	23.77604	5.579566	9564.490	-587.174	612.8698	74.15550	496.0951
#2	24.96549	5.531096	9710.135	-585.395	626.6569	74.76739	535.0847
#3	25.28993	5.660351	9695.998	-590.326	631.1095	74.77351	469.9997
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	30000.00	700000.0	100000.0	300000.0	50000.00	700000.0
LOW	-10.0000	-25.0000	-100.000	-1000.00	-1000.00	-15.0000	-2000.00

ELEM	NI2316	TL1908	V_2924	ZN2062	PB2203	SE1960	SB2068
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	7.821609	-5.06542	32.63699	43.95435	26.70052	2.424051	13.62125
SDEV	.914608	2.59085	.55854	.36537	.85713	.752600	.62634
%RSD	11.69335	51.14785	1.711385	.8312496	3.210158	31.04722	4.598265
#1	7.776036	-7.89485	32.01749	43.72707	27.48921	3.131411	13.97945
#2	8.758152	-4.49231	33.10209	43.76017	25.78835	2.507563	12.89802
#3	6.930640	-2.80911	32.79140	44.37581	26.82401	1.633177	13.98627
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	60000.00	60000.00	40000.00	40000.00
LOW	-40.0000	-10.0000	-50.0000	-20.0000	-3.00000	-5.00000	-60.0000

ELEM	AS1890	22031	22032	19601	19602	SN1899	BI2230
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
AVGE	3.092226	31.28194	24.41033	-20.5977	13.91507	17.82751	.0076453
SDEV	.623942	.90997	1.69235	3.6992	2.60076	2.03638	.5407248
%RSD	20.17777	2.908919	6.932924	17.95922	18.69028	11.42267	7072.683
#1	3.335526	30.23836	26.11378	-24.4832	16.91540	15.54184	.5109577
#2	3.557865	31.90974	22.72930	-17.1183	12.30316	19.44850	-.563996
#3	2.383288	31.69773	24.38790	-20.1916	12.52664	18.49218	.0759746
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC PASS	LC PASS
HIGH	20000.00					40000.00	40000.00
LOW	-5.00000					-20.0000	-10.0000

ELEM	MO2020	TI3349	Y_3710
UNITS	UG/L	UG/L	PPM
AVGE	.5356250	855.1932	4643.666
SDEV	.4681003	4.1487	23.162
%RSD	87.39328	.4851226	.4987891
#1	.8092220	854.4460	4644.999
#2	-.004877	859.6648	4619.866
#3	.8025299	851.4689	4666.133
ERRORS	LC PASS	LC PASS	NOCHECK
HIGH	20000.00	40000.00	
LOW	-10.0000	-30.0000	